CODE REVIEW

BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS THE ENGINEERS HAVE PLACED THE CODE DATA **RELEVANT TO THEIR** DISCIPLINE ON THEIR

(EXCEPT 1 AND 2-FAMILY DWE (REPRODUCE THE FOLLOWING	ELLINGS AND TOWNHOUSES) G DATA ON THE BUILDING PLANS SH	EET 1 OR 2)	RESPEC	CTIVE SHEETS.
NAME OF PROJECT: MOORES	S GLASS			
ADDRESS: 1115 SOUTH SOU	JTH 3rd STREET, WILMINGTON, NC	ZIP CODE: 28405		
PROPOSED USE: GLASS COM	IPANY			
OWNER: JOHN MOORE	CONTACT: MAR	K GRENELL, ARCHITECT	PHONE # (910) 233 - 10	061 E-MAIL: mg.architect@outlook.com
OWNED BY: CITY/COUN	TTY PRIVATE ST	ATE		
CODE ENFORCEMENT JURISE	DICTION: CITY: -	COUNTY: NEW HA	NOVER STAT	E: N.C.
ARCHITECTURAL CIVIL ELECTRICAL FIRE ALARM	DESIGNER FIRM MARK GRENELL, ARCHITECT			PHONE # E-MAIL 33-1061 mg.architect@gmail.com
PLUMBING MECHANICAL SPRINKLER-STANDPIPE STRUCTURAL RETAINING WALLS > 5' HIGH OTHER	Walton Engineering	Mark Walton	16379 910-2	259-4800
2012 EDITION OF NC CODE FO	OR: NEW CONSTRUCTION EXISTING: RECONSTR	ADDIT	TION UPFIT	
CONSTRUCTED: 1997	RENOVATED: N/A			
ORIGINAL USE(S) (CH. 3): N/CURRENT USE(S) (CH. 3): N/PROPOSED USE(S) (CH. 3): BU	'A			
BASIC BUILDING DATA				
CONSTRUCTION TYPE: (CHECK ALL THAT APPLY)	□ I-A □ II-A □ III-A □ III-A □ III-A			

GROSS BUILDING					
FLOOR:	EXISTING (SQ FT)	NEW (SQ FT)	SUB-TOTAL	RENOVATED (SQ FT)	UPFIT (SQ FT)
2nd FLOOR MEZZANINE GROUND FLOOR	5,000 SF	1,000 SF			
TOTAL		6,000 SF			

PARTIAL YES NFPA 13 NFPA 13R NFPA 13D

CLASS: I II III WET DRY

ALLOWABLE AREA						
OCCUPANCY:						
ASSEMBLY	A-1	A-2	☐ A-3	☐ A-4	☐ A-5	
BUSINESS	¥					
EDUCATIONAL						
FACTORY	☐ F-1 MOD	DERATE	F-2 LOV	/		
HAZARDOUS	☐ H-1 DET	ONATE	H-2 DEF	LAGRATE	☐ H-3 COMBUST ☐ H-4 HEALTH	☐ H-5 HPM
INSTITUTIONAL	☐ I-1	☐I-2	☐ I-3	☐ I-4		
I-3 CONDITION	l 🗌 1	_2	□ 3	□ 4	□ 5	
MERCANTILE						
RESIDENTIAL	☐ R-1	☐R-2	☐ R-3	☐ R-4		
STORAGE	S-1 MOD	DERATE	S-2 LOV	V	☐ HIGH-PILED	
	☐ PARKIN	G GARAGE			SED □REPAIR GARAGE	
UTILITY AND MISO	CELLANEOU	S 🗌				

ACCESSORY OCCU	PANCIES:					
ASSEMBLY	☐ A-1	☐ A-2	☐ A-3	☐ A-4	☐ A-5	
BUSINESS						
EDUCATIONAL						
FACTORY	☐ F-1 MOD	ERATE	☐ F-2 LOW	I		
HAZARDOUS	☐ H-1 DET	ONATE	☐ H-2 DEF	LAGRATE	☐ H-3 COMBUST ☐ H-4 HEALTH	☐ H-5 HPM
INSTITUTIONAL	☐ I-1	□I-2	☐ I-3	☐ I-4		
I-3 CONDITION	I 🗌 1	_2	□ 3	4	□ 5	
MERCANTILE						
RESIDENTIAL	☐ R-1	□R-2	☐ R-3	☐ R-4		
STORAGE	☐ S-1 MOD	ERATE	☐ S-2 LO	W	☐ HIGH-PILED	
	☐ PARKING	G GARAGE	OPEN	☐ ENCLOS	SED REPAIR GARAGE	
UTILITY AND MISC	CELLANEOUS	S 🗌				

INCIDENTAL USES (TABLE 508.2.5):

☐ FURNACE ROOM WHERE ANY PIECE OF EQUIPMENT IS OVER 400,000 BTU PER HOUR INPUT ROOMS WITH BOILERS WHERE THE LARGEST PIECE OF EQUIPMENT IS OVER 15 PSI AND 10 HORSEPOWER

REFRIGERANT MACHINE ROOM

HYDROGEN CUTOFF ROOMS, NOT CLASSIFIED AS GROUP H

STANDPIPES:

FIRE DISTRICT:

FLOOD HAZARD AREA:

BUILDING HEIGHT: (FEET) 20'

☐ INCINERATOR ROOMS \square PAINT SHOPS, NOT CLASSIFIED AS GROUP H, LOCATED IN OCCUPANCIES OTHER THAN GROUP F

☐ LABORATORIES AND VOCATIONAL SHOPS, NOT CLASSIFIED AS GROUP H. LOCATED IN A GROUP E OR I-2 OCCUPANCY

☐ LAUNDRY ROOMS OVER 100 SQUARE FEET ☐ GROUP I-3 CELLS EQUIPPED WITH PADDED SURFACES

☐ GROUP I-2 WASTE AND LINEN COLLECTION ROOMS

WASTE AND LINEN COLLECTION ROOMS OVER 100 SQUARE FEET

☐ STATIONARY STORAGE BATTERY SYSTEMS HAVING A LIQUID ELECTROLYTE CAPACITY OF MORE THAN 50 GALLONS, OR A LITHIUM-ION

CAPACITY OF 1,000 POUNDS USED FOR FACILITY STANDBY POWER, EMERGENCY POWER OR UNINTERRUPTED POWER SUPPLIES ☐ ROOMS CONTAINING FIRE PUMPS

☐ GROUP I-2 STORAGE ROOMS OVER 100 SQUARE FEET

☐ GROUP I-2 COMMERCIAL KITCHENS

☐ GROUP I-2 LAUNDRIES EQUAL TO OR LESS THAN 100 SQUARE FEET

☐ GROUP I-2 ROOMS OR SPACES THAT CONTAIN FUEL-FIRED HEATING EQUIPMENT

 SPECIAL USES:
 402
 403
 404
 405
 406
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 415
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 427

<u>SPECIAL PROVISIONS:</u> □509.2 □509.3 □509.4 □509.5 □509.6 □509.7 □509.8 □509.9

MIXED OCCUPANCY: ☐ NO YES SEPARATION: HR. EXCEPTION: ☐ INCIDENTAL USE SEPARATION (508.2.5) THIS SEPARATION IS NOT EXEMPT AS A NON-SEPARATED USE (SEE EXCEPTIONS). MNON-SEPARATED USE (508.3) THE REQUIRED TYPE OF CONSTRUCTION FOR THE BUILDING SHALL BE DETERMINED BY APPLYING THE HEIGHT AND AREA LIMITATIONS FOR EACH OF THE APPLICABLE OCCUPANCIES TO THE ENTIRE BUILDING. THE MOST RESTRICTIVE TYPE OF CONSTRUCTION, SO DETERMINED, SHALL APPLY TO THE ENTIRE BUILDING. SEPARATED USE (508.4) - SEE BELOW FOR AREA CALCULATIONS FOR EACH STORY, THE AREA OF THE OCCUPANCY SHALL BE SUCH THAT THE SUM OF THE RATIOS OF THE ACTUAL FLOOR AREA OF EACH USE DIVIDED BY THE ALLOWABLE FLOOR AREA FOR EACH USE SHALL NOT EXCEED 1. ACTUAL AREA OF OCCUPANCY A + ACTUAL AREA OF OCCUPANCY B ALLOWABLE AREA OF OCCUPANCY A ALLOWABLE AREA OF OCCUPANCY B __ (1 OR LESS) BLDG AREA TABLE 503 (5) DESCRIPTION AREA FOR AREA FOR ALLOWABLE PER STORY AREA FRONTAGE SPRINKLER AREA OR (ACTUAL) INCREASE (2) UNLIMITED (3) AREA (4) LJM FASHION & FURNISHING (M) 9.000.0 SI MOORES GLASS (B) NOT USED NOT USED MOORES GLASS (F2 WAREHOUSE) 1,470 SF SUMMARY: THE BUILDING IS SINGLE STORY. CONSTRUCTION TYPE IS V-B. THE ENTIRE BUILDING AREA, INCLUDING THE ADDITION, IS 6,000 SF. THIS EQUALS WHAT'S PERMITTED FOR THE MOST RESTRICTIVE USE (6,000 SF). MOST RESTRICTIVE USE (1) FRONTAGE AREA INCREASES FROM SECTION 506.2 ARE COMPUTED THUS: A. PERIMETER WHICH FRONTS A PUBLIC WAY OR OPEN SPACE HAVING 20 FEET MINIMUM WIDTH = ____ B. TOTAL BUILDING PERIMETER = ____(P) C. RATIO (F/P) = _____ (F/P) D. W = MINIMUM WIDTH OF PUBLIC WAY = _____ (W) E. PERCENT OF FRONTAGE INCREASE IF = 100 [F/P - 0.25] X W/30 = _____ (%) (2) THE SPRINKLER INCREASE PER SECTION 506.3 IS AS FOLLOWS: A. MULTI-STORY BUILDING IS = 200 PERCENT B. SINGLE STORY BUILDING IS = 300 PERCENT (3) UNLIMITED AREA APPLICABLE UNDER CONDITIONS OF SECTION 507. (4) MAXIMUM BUILDING AREA = TOTAL NUMBER OF STORIES IN THE BUILDING X E (506.4). (5) THE MAXIMUM AREA OF OPEN PARKING GARAGES MUST COMPLY WITH TABLE 406.3.5. THE MAXIMUM AREA OF AIR TRAFFIC CONTROL TOWERS MUST COMPLY WITH TABLE 412.1.2.

ALLOWABLE HEIGHT				
	ALLOWABLE	INCREASE		
	(TABLE 503)	FOR SPRINKLERS	SHOWN ON PLANS	CODE REFERENCE
TYPE OF CONSTRUCTION	TYPE: V-B	NOT USED	TYPE: V-B	
BUILDING HEIGHT IN FEET	40 FT	FEET = H + 20' =	20 FT	
BUILDING HEIGHT IN STORIES	1	STORIES + 1 =	1	

BUILDING ELEMENT	FIRE	RATING		DETAIL#	DESIGN#	DESIGN # FOR	DESIGN#
	SEPARATION DISTANCE	REQ'D	PROVIDED (W/*	AND SHEET#	FOR RATED	RATED PENETRATION	FOR RATED
	(FEET)		REDUCTION)		ASSEMBLY		JOINTS
STRUCTURAL FRAME,							
INCLUDING COLUMNS, GIRDERS,		0					
TRUSSES							
BEARING WALLS							
EXTERIOR	>10'	0					
INTERIOR		0					
NONBEARING WALLS AND							
PARTITIONS							
EXTERIOR WALLS	>10'	0					
INTERIOR WALLS		0					
FLOOR CONSTRUCTION							
INCLUDING SUPPORTING BEAMS		0					
AND JOISTS							
DOOF CONCEDUCTION							
ROOF CONSTRUCTION							
INCLUDING SUPPORTING		0					
BEAMS AND JOISTS							
SHAFT ENCLOSURES - EXIT		N/A					
SHAFT ENCLOSURES - OTHER		N/A					
CORRIDOR SEPARATION		N/A					
OCCUPANCY SEPARATION		N/A					
PARTY/FIRE WALL SEPARATION		N/A					
SMOKE BARRIER SEPARATION		N/A					
TENANT SEPARATION		N/A					
INCIDENTAL USE SEPARATION		N/A					

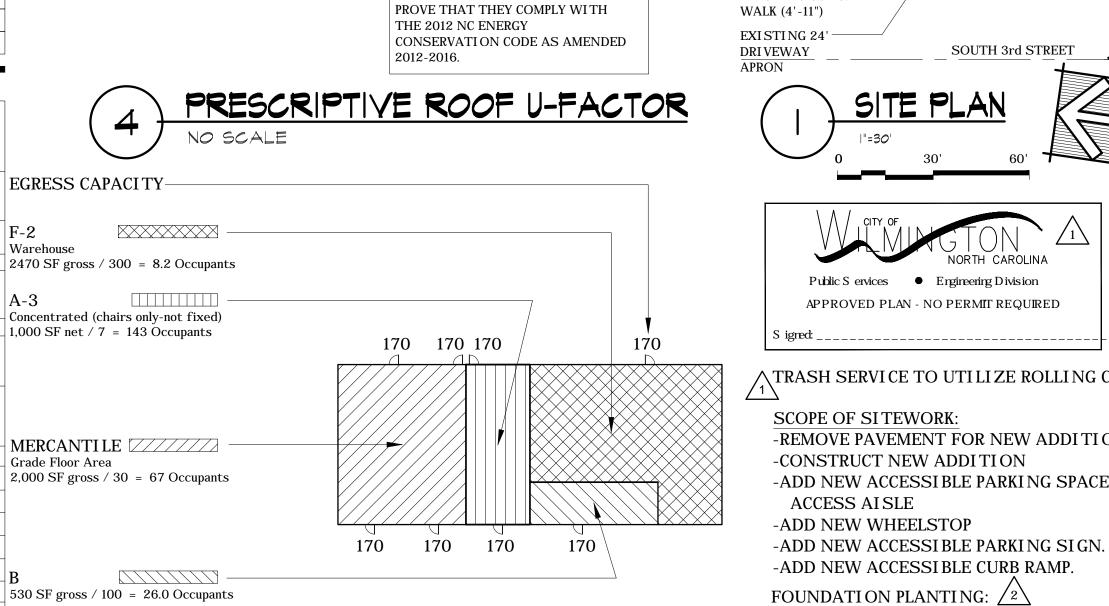
AND JOISTS					
ROOF CONSTRUCTION INCLUDING SUPPORTING BEAMS AND JOISTS		0			
SHAFT ENCLOSURES - EXIT		N/A			
SHAFT ENCLOSURES - OTHER		N/A			
CORRIDOR SEPARATION		N/A			
OCCUPANCY SEPARATION		N/A			
PARTY/FIRE WALL SEPARATION		N/A			
SMOKE BARRIER SEPARATION		N/A			
TENANT SEPARATION		N/A			
INCIDENTAL USE SEPARATION		N/A			
* INDICATE SECTION NUMBER PERM	MITTING REDUCT	ION			
LIFE SAFETY SYSTEM REQUIREMEN EMERGENCY LIGHTING: EXIT SIGNS: FIRE ALARM: SMOKE DETECTION SYSTEMS: PANIC HARDWARE:	NTS NO YES NO YES NO YES NO YES				

LIVILINGLING! LIGITING.	I INO TILO	
EXIT SIGNS:	NO YES	
FIRE ALARM:	NO YES	
SMOKE DETECTION SYSTEMS:	NO YES	
PANIC HARDWARE:	NO YES	
ACCESSIBLE PARKING		
(SECTION 1106)		
(SECTION 1100)		

SPECIAL INSPECTIONS REQUIRED: YES NO

LOT OR PARKING	TOTAL # OF PARKING SPACES		# OF ACCESSIBLE SPACES PROVIDED	TOTAL # ACCESSIBLE
AREA	REQUIRED	PROVIDED	WITH 5' ACCESS AISLE	PROVIDED
(M)	1/400 SF= 5	5	1	1
(A-3)	50 SEATS/4= 13	13		
(F-2)	1/1500= 2	2		
TOTAL (INCLUE	DES ACCESSIBLE SPACES)= 21		-	-

USE		WAT	ERCLOSE	ΓS	URINALS	LAVATO	DRIES		SHOWERS	MOP	DRINKING I	FOUNTAINS
SPACE	MALE/FEMALE	MALE	FEMALE	UNISEX		MALE	FEMALE	UNISEX	& TUBS	SINK	REGULAR	ACCESSIBL
F-2	5 M; 5 F	-	-	1	-	1	-	1	-	-		



WALL ASSEMBLY

METAL SIDING

INSIDE AIR FILM

TOTAL R VALUE:

ZONE 3

EXTERIOR AIR FILM

R-13 BATT INSULATION

REQUIRED U-FACTOR:

THE 2012 NC ENERGY

ROOFASSEMBLY

EXTERIOR AIR FILM

METAL ROOFING

METAL FRAMING

R-25 INSULATION

INSIDE AIR FILM

TOTAL R VALUE:

REQUIRED U-VALUE:

U VALUE OF ROOF ASSEMBLY: 0.03

THIS IS ACCEPTABLE BECAUSE IT IS

LESS THAN THE REQUIRED U VALUE OF 0.041 PER TABLE 502.1.2 FOR ZONE 3

NOTE: OTHER ASSEMBLIES MAY BE

CONSIDERED IF THE PROVIDER CAN

MATERI AL

PRESCRIPTIVE WALL U-FACTOR

NO SCALE

U VALUE OF WALL ASSEMBLY: 0.072

THIS IS ACCEPTABLE BECAUSE IT IS

LESS THAN THE REQUIRED U VALUE

NOTE: OTHER ASSEMBLIES MAY BE

CONSIDERED IF THE PROVIDER CAN

CONSERVATION CODE AS AMENDED

PROVE THAT THEY COMPLY WITH

OF 0.094 PER TABLE 502.1.2 FOR

R-VALUE

0.17

0.0

0.68

13.85

R-VALUE

0.00

0.00

25.0

0.68

13.0

MATERI AL

MAJOR SITE PLAN (TRC MEETING & REVIEW) (Greater than 2 acres or over 10,000 gross square

▼ MINOR SITE PLAN REVIEW (TRC REVIEW) (Less than 2 acres or less than 10,000 gross square

Key Information: ★ A vicinity sketch or key map; [SEE SHEET A0.1]

True north arrow, with north being at the top of the map; [SEE SHEET A0.1] **★** Scale of the map using engineer's scale both graphic and numeric; [SEE SHEETS A0 AND A0.1]

Title Block/Site Data Tabulation:

unit if multi-unit residential)

★ Name of the development; [SEE CODE REVIEW SHEET A0 ALSO SHOWN ON A0.1] Name of the property owner; [SEE CODE REVIEW ON SHEET A0 ALSO SHOWN ON A0.1]

★ Name, address and telephone number of the [SEE CODE REVIEW ON SHEET A0] designer who prepared the plan; ✓ Project address; [SEE CODE REVIEW SHEET A0 ALSO SHOWN ON A0.1] PIN number or Tax Parcel Number; [R05413-019-005-000]

Zoning district; [UMX] Building setbacks, required; [NONE, EXCEPT WHERE ABUTS RESIDENTIAL, THEN 5'] Building setbacks, proposed; [GREATER THAN 5' ALL SIDES] Total amount of acreage within the project [.54 ACRES]

Building size (square footage), both existing and [EXISTING: 5,000 SF; ADDITION: 1,000 SF] Calculations for building lot coverage; [6,000 SF BLDG / 23,562 SF LOT: 25.4%] Number of units; (and number of bedrooms per [3 TENANTS]

Number of stories and square feet per floor; [SEE CODE REVIEW SHEET A.0] Total amount and percent of impervious surface areas, before and after development; Off street parking calculations based on use; [SEE CODE REVIEW SHEET A.0] Minimum parking required; [20 SPACES] Maximum parking required; [20 SPACES] CAMA land use classification; [URBAN] General Information:

Number of buildings; [1]

Building height; [SEE CODE REVIEW SHEET A.0]

Names of property owners of adjacent properties; [SEE SHEET A0.1] Zoning and land use of adjacent properties; [SEE 1/A0] Proposed streets with cross sections, existing [SEE SHEET A0.1] and platted streets on adjoining properties and in the proposed development with right-of-way widths; Location and size of proposed recreational areas $\left[N/A\right]$ or open spaces; Existing easements: [NONE PER SURVEY. SEE SHEET A/0.1]

Widths;

I dentify if in a special highway overlay district or [N/A]

Purposes noted; Public or private; Book and page numbers; Current accurate topographical information based [SEE SURVEY. SEE SHEET A/0.1] on mean sea level datum;

SITE PLAN 1/A0]

any other zoning overlay district; Building, Structure and Use Information Location of solid waste disposal; [TRASH SERVICE TO UTILIZE ROLLING CARTS. SEE

SEE 1 OF 1 BY WALTON ENGI NEERI NG EXISTING PAVED PARKING R-5 ZONE NEW 3'x20' (60SF) EXIST. 5 2° 33' E 33.0' OAK TREES $\frac{2}{2}$ LANDSCAPED BED NEW 2'x\$0' (100 SF) LANDSCAPING BED EXISTING SINGLE STORY PRE-ENGINEERED METAL BUILDING. 5,000 SF AREA w/ADDITION: 6,000 SF +EXIST. SITE AREA: 23,562 SF LANDSCAPING BLDG LOT COVERAGE: 25.4% 🗸 DI STURBED AREA: 0.05 ACRES 🖊 2 🔪 ZONE / 1 \ NEW RAMP 1:12 SLOPE, 6" RI SE -NEW ADA PARKING SIGN \bigwedge NEW 2 x20' (40SF) LANDSCAPED BED EXISTING PAVED PARKING + ADD TREE - ADD NEW 8' EXISTING BACKFLOW PREVENTERS HANDI CAP PROTECTI ON OAK SEE 5/AO /3 SPACE WITH 8' OAK EXISTING-– EXI STI NG TREES LANDSCAPING -EXISTING EDGE EXISTING CONC. OF CURB WALK (4'-11") -5' SIDEWALK EXISTING 24' (PAINTED LINES SOUTH 3rd STREET **DRI VEWAY** $\frac{1}{2}$ on existing \perp ASPHALT) **EXISTING** TREE 36" HI GH STAKES APPROVED PLAN - NO PERMIT REQUIRED TRASH SERVICE TO UTILIZE ROLLING CARTS SCOPE OF SITEWORK: -REMOVE PAVEMENT FOR NEW ADDITION PROTECTI VE BARRI ER. PROVIDE 1' OF RADIUS -CONSTRUCT NEW ADDITION FOR EACH INCH OF -ADD NEW ACCESSIBLE PARKING SPACE WITH TRUNK DI AMETER ACCESS AISLE

FRONT WALL: AREA: 20x13.33' = 273.34 SF 12%=32.8 SF REQ'D, 40 SF PROVI DED.

BACKWALL: AREA: 20x13.33' = 273.34 SF 12%=32.8 SF REQ'D, 60 SF PROVI DED.

ENDWALL: AREA: 762.5 SF 12%=91.5 SF REQ'D, 100 SF PROVIDED.

PLANTS: BOXWOODS (EVERGREEN) AT 30"o/c IN A ZIG-ZAG PATTERN.

R-5 ZONE

(UNPAVED)

5 2° 33' E 132.0'

NEW WHEELSTOP AT-

/1\EXIST. SPACES

Other required Information: General location, ownership and size of existing: Water; [N/A]

NO SCALE

Sanitary Sewer; [N/A] Storm drainage lines or systems; [N/A] Fire Hydrants; [N/A] FEMA 100-year floodplain line [N/A] Existing parcel lines for the entire tract [SEE 1/A0] General locations only, with sizes of proposed:

Water lines; [SEE SHEET A0.1] Fire hydrants; [SEE SHEET A0.1] Sewer lines; [SEE SHEET A0.1] Storm drainage lines; [SEE SHEET A0.1] Please provide the Water and Sewer Capacity needs (current and proposed zoning) with calculations in gallons per day based on state

guide lines. Water: ____ GPD (current use)
Water: ___ GPD (proposed use)
Sewer: ___ GPD (current use)
Sewer: ___ GPD (proposed use)

GPD (proposed use)

GPD (proposed use) Site Inventory map as required; [SEE 1/A0] Tree Inventory, if required by the LDC, shall [N/A] indicate trees to be preserved and those proposed for removal. This information shall be

combined with an overlay of the proposed site layout. The tree inventory must be certified by a registered land surveyor. See References 18-133 & 18-455.

- ABANDON EXIST.

ABANDON EXIST. /

+ EXIST. CONC. $\angle 4$

NEW DRIVE & APRON -

DRI VEWAY

DRI VEWAY

APRON

WALK (5')

31 May 2017

31 May 2017 REVISIONS

no. date

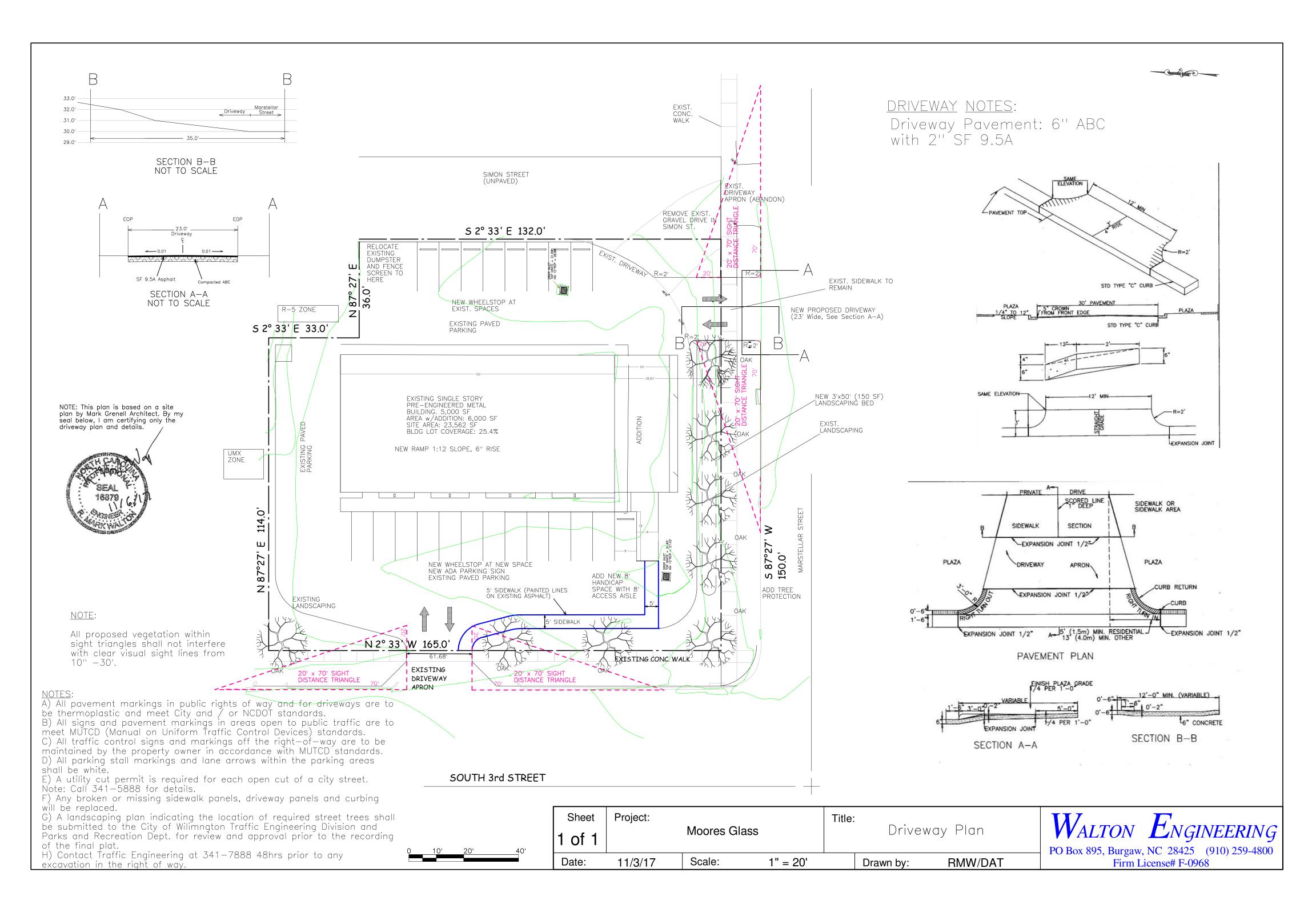
1\ 2 AUG 2017 TRC COMMENTS 2\ 26 SEPT 2017 TRC COMMENTS

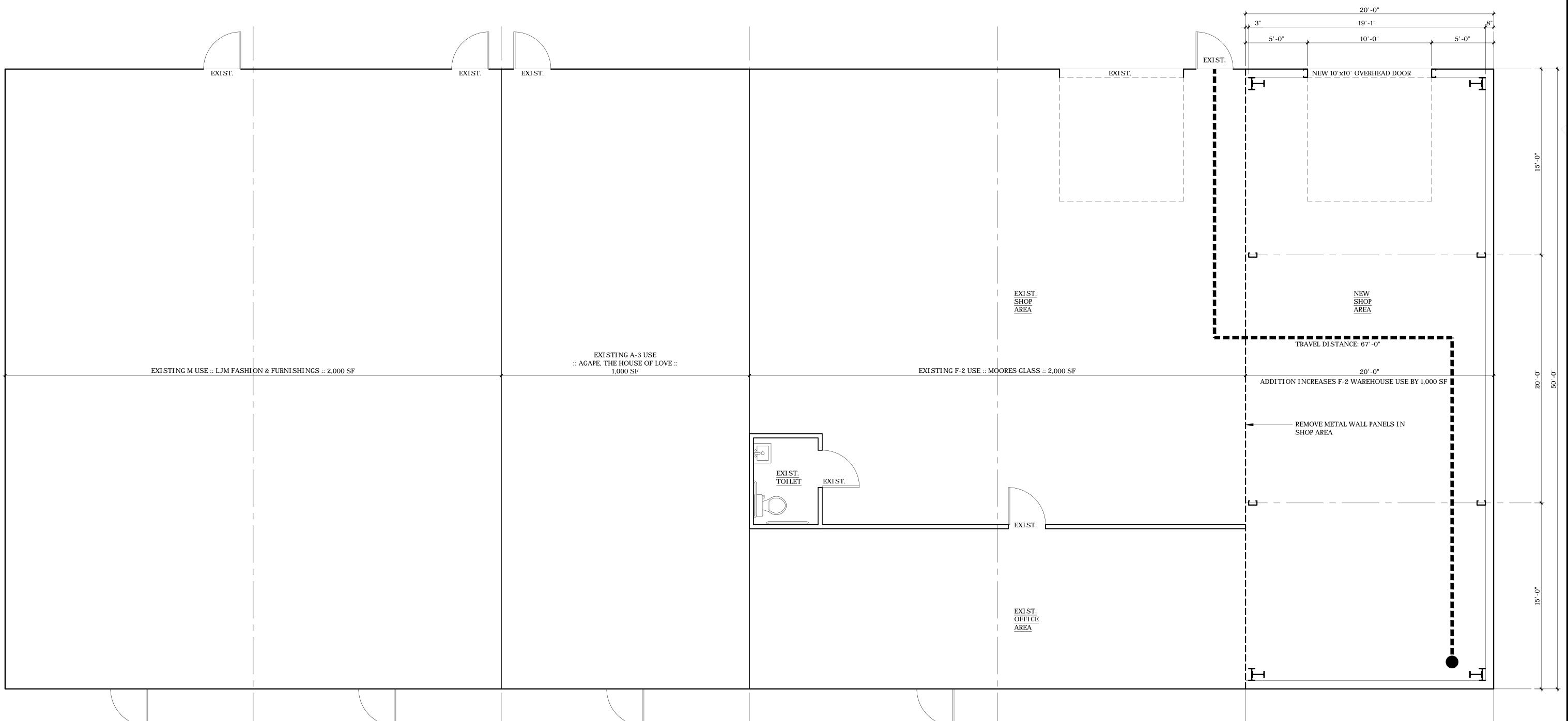
3\ 28 SEPT 2017 TRC COMMENTS

4\ 6 NOV 2017 TRC COMMENTS

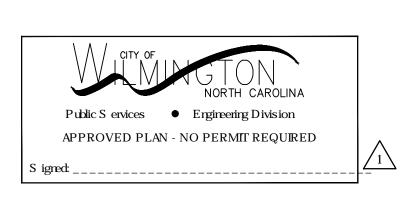
APPENDI X B

SITE PLAN SCALE AS NOTED









A Building Addition to

Moores Glass Service Inc

Floor Plan
-SCALE AS NOTED

ARCH

31 May 2017

REVISIONS no. date

1 2 AUG 2017 TRC COMMENTS

FRONT ELEVATION

