

CHAPTER 3 OCCUPANCY AND USE CLASSIFICATION:	SECTION 310.4 RESIDENTIAL GROUP R-2 (APARTMENTS)
TABLE 504.4 ALLOWABLE NUMBER OF STORIES ABOVE GRADE:	3 STORIES WITH (S) SPRINKLER SYSTEM.
TABLE 506.2 ALLOWABLE AREA FACTOR:	GROUP R-2, V-A = (SM) 36,000 S.F. WITH FIRE PROTECTION PER 903.1.1
BUILDING AREAS	
TOTAL BUILDING "A" HEATED AND COVERED AREA:	33,286 S.F. ALLOWABLE S.F. = 36,000 S.F. (V-A CONSTRUCTION TYPE, ALLOWABLE AREA = 36,000 S.F.)
TOTAL BUILDING "B" HEATED AND COVERED AREA:	33,286 S.F. ALLOWABLE S.F. = 36,000 S.F. (V-A CONSTRUCTION TYPE, ALLOWABLE AREA = 36,000 S.F.)
FIRE FLOW REQUIREMENTS	TYPE V-A 30,607 PER BUILDING 30,101-35,200 SF = 3,250 G.P.M. = 3 HOURS FLOW DURATIONS 3,250 G.P.M. = 3 HYDRANTS = 400 FEET SPACE = 225 FEET MAX 50% REDUCTION. DUE TO FIRE SPRINKLER (TABLE B.105.1(1)) 1,625 G.P.M. = 1 HYDRANT = 500 FEET SPACE = 250 FEET MAX (PER LOT)
SECTION 903 AUTOMATIC SPRINKLER SYSTEM:	PER SECTION 903.2.8 AN AUTOMATIC SPRINKLER SYSTEM INSTALLED IN ACCORDANCE WITH SECTION 903.3 SHALL PROVIDED THROUGHOUT ALL BUILDINGS WITH A GROUP R FIRE AREA SECTION 903.3.1.2 NFPA 138 SPRINKLER SYSTEM, WHERE THE PROVISIONS OF THIS CODE REQUIRE THAT A BUILDING OR PORTION THEREOF BE EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH THIS SECTION.
SECTION 907, FIRE ALARM AND DETECTION SYSTEMS:	907.2.9 GROUP R-2 FIRE ALARM SYSTEMS AND SMOKE ALARMS SHALL BE INSTALLED GROUP R-2 OCCUPANCIES AS REQUIRED IN SECTION 907.2.9.1 AND 907.2.9.2
TABLE 601 FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS (HOURS):	1 HRS RESISTANCE RATING REQUIRED FOR ALL PRIMARY STRUCTURAL FRAME, BEARING WALL (INTERIOR/EXTERIOR), FLOOR CONSTRUCTION & ASSOCIATED SECONDARY MEMBERS & ROOF CONSTRUCTION & ASSOCIATED MEMBERS. 0 HRS. RESISTANCE RATING REQUIRED FOR ALL INTERIOR NONBEARING WALL & PARTITIONS
TABLE 602 FIRE-RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE:	FIRE SEPARATION DISTANCE = $10 \leq X < 30$ TYPE OF CONSTRUCTION = VA OCCUPANCY GROUP(S) = R2 = (1) HOUR FIRE-RESISTANCE RATING REQUIRED <u>NOTE: APARTMENT EXTERIOR WALLS AT BREZEWAY/CORRIDOR TO BE (1) HOUR FIRE RATED</u>
SECTION 705 EXTERIOR WALLS:	705.5 FIRE-RESISTANCE RATING. EXTERIOR WALLS SHALL BE FIRE-RESISTANCE RATED ACCORDANCE WITH TABLE 601 AND 602 AND THIS SECTION. PER SECTION 705.5, THE REQUIRED FIRE-RESISTANCE RATING OF EXTERIOR WALL WITH A FIRE SEPARATION DISTANCE OF LESS THAN 10 FEET SHALL BE RATED FOR EXPOSURE TO FIRE ON BOTH SIDES.
SECTION 420 GROUPS 1-1, R-1, R-2 AND R-3:	420.2 SEPARATION WALLS. WALLS SEPARATING DWELLING UNITS AND WALLS SEPARATING SLEEPING UNITS IN THE SAME BUILDING AND WALLS SEPARATING DWELLING OR SLEEPING UNITS FROM OTHER OCCUPANCIES CONTIGUOUS TO THEM IN THE SAME BUILDING SHALL BE CONSTRUCTED AS FIRE PARTITIONS IN ACCORDANCE WITH SECTION 708. 420.3 HORIZONTAL SEPARATION. FLOOR ASSEMBLIES SEPARATING DWELLING UNITS IN THE SAME BUILDINGS, FLOOR ASSEMBLIES SEPARATING SLEEPING UNIT IN THE SAME BUILDING AND FLOOR ASSEMBLIES SEPARATING DWELLING OR SLEEPING UNITS FROM OTHER OCCUPANCIES SHALL BE CONSTRUCTED AS HORIZONTAL ASSEMBLIES IN ACCORDANCE WITH SECTION 711
SECTION 711.2.4.6 OTHER SEPARATIONS:	WHERE A HORIZONTAL ASSEMBLY IS REQUIRED BY OTHER SECTIONS OF THIS CODE, THE ASSEMBLY SHALL HAVE A FIRE-RESISTANCE RATING OF NOT LESS THAN THAT REQUIRED BY THAT SECTION.
SECTION 708 FIRE PARTITIONS:	708.1 GENERAL. THE FOLLOWING WALL ASSEMBLIES SHALL COMPLY WITH THIS SECTION. 1. WALLS SEPARATING SLEEPING UNITS IN THE SAME BUILDING AS REQUIRED BY SECTION 420.2 3. CORRIDOR WALLS AS REQUIRED BY SECTION 1020.1. 708.3 FIRE RESISTANCE RATING. FIRE PARTITION SHALL HAVE A FIRE-RESISTANCE RATING OF NOT LESS THAN 1 HOUR. 708.4 CONTINUITY. FIRE PARTITIONS SHALL EXTEND FROM THE TOP OF THE FOUNDATION OR FLOOR/CEILING ASSEMBLY CEILING OR ROOF/CEILING ASSEMBLY BELOW TO THE UNDERSIDE OF THE FLOOR OR ROOF SHEATHING, SLAB OR DECK ABOVE OR TO THE FIRE-RESISTIVE-RATED FLOOR/CEILING OR ROOF/CEILING ASSEMBLY ABOVE, AND SHALL BE SECURELY ATTACHED THERETO.

- A. PREMISE IDENTIFICATION - SHALL BE MINIMUM 12 INCHES HIGH x 1 INCH WIDE STROKE AND SHALL CONTRAST WITH THEIR BACKGROUND AND SHALL BE VISIBLE FROM THE STREET OR ROAD FRONTING THE PROPERTY
- B. G.C. TO PROVIDE FIRE EXTINGUISHERS 2A-10-BC, 1 PER EACH 3,000 S.F., REF: FLOOR PLANS FOR QUANTITY, LOCATIONS AND TYPE.
- C. ALL PENETRATIONS THROUGH A FIRE RATED WALL ASSEMBLY TO BE FIRESTOPPED WITH THERMAFIBER AS MANUFACTURED BY THERMAFIBER, LLC, WABASH, 46992 OR OTHER APPROVED EQUAL.
- D. ALL EXIT SIGNS AND EMERGENCY LIGHTING SHALL HAVE BATTERY BACK-UP, REF: ELECTRICAL.
- E. SHOP DRAWING TO BE SUBMITTED TO THE FIRE MARSHAL'S OFFICE FOR REVIEW AND APPROVAL OF ANY INSTALLATION OR MODIFICATION TO THE FIRE SPRINKLER SYSTEM, FIRE ALARM SYSTEM, KITCHEN SYSTEM, OR ANY OTHER FIRE RELATED SYSTEM.
- F. THE FIRE SPRINKLER SYSTEM WILL BE SUPERVISED IF REQUIRED BY THE 2015 INTERNATIONAL FIRE CODE (I.F.C.).

- FIRE APPARATUS ACCESS ROADS SHALL HAVE AN ASPHALT, CONCRETE, OR OTHER APPROVED DRIVING SURFACE CAPABLE OF SUPPORTING THE IMPOSED LOAD OF FIRE APPARATUS WEIGHING AT LEAST 75,000 POUNDS.
- ENGINEERING DATA SHALL BE SUBMITTED TO SUBSTANTIATE WEIGHT BEARING CAPACITY AND ALL WEATHER DRIVING CAPABILITIES FOR FIRE APPARATUS ACCESS ROADS.
- FIRE APPARATUS ACCESS ROADS SHALL NOT EXCEED 10 PERCENT IN GRADE.

FIRE RISER ROOM WITH FIRE RISER, G.C. TO SUBMIT FIRE SPRINKLER PLANS TO THE FIRE MARSHAL'S OFFICE FOR REVIEW AND APPROVAL.

G.C. TO PROVIDE AND INSTALL AT FIRE RISER ROOM DOOR SIGNAGE STATING "FIRE RISER ROOM".

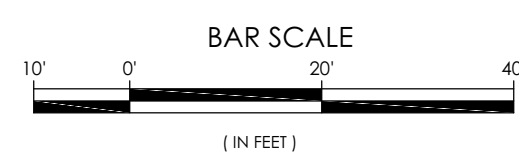
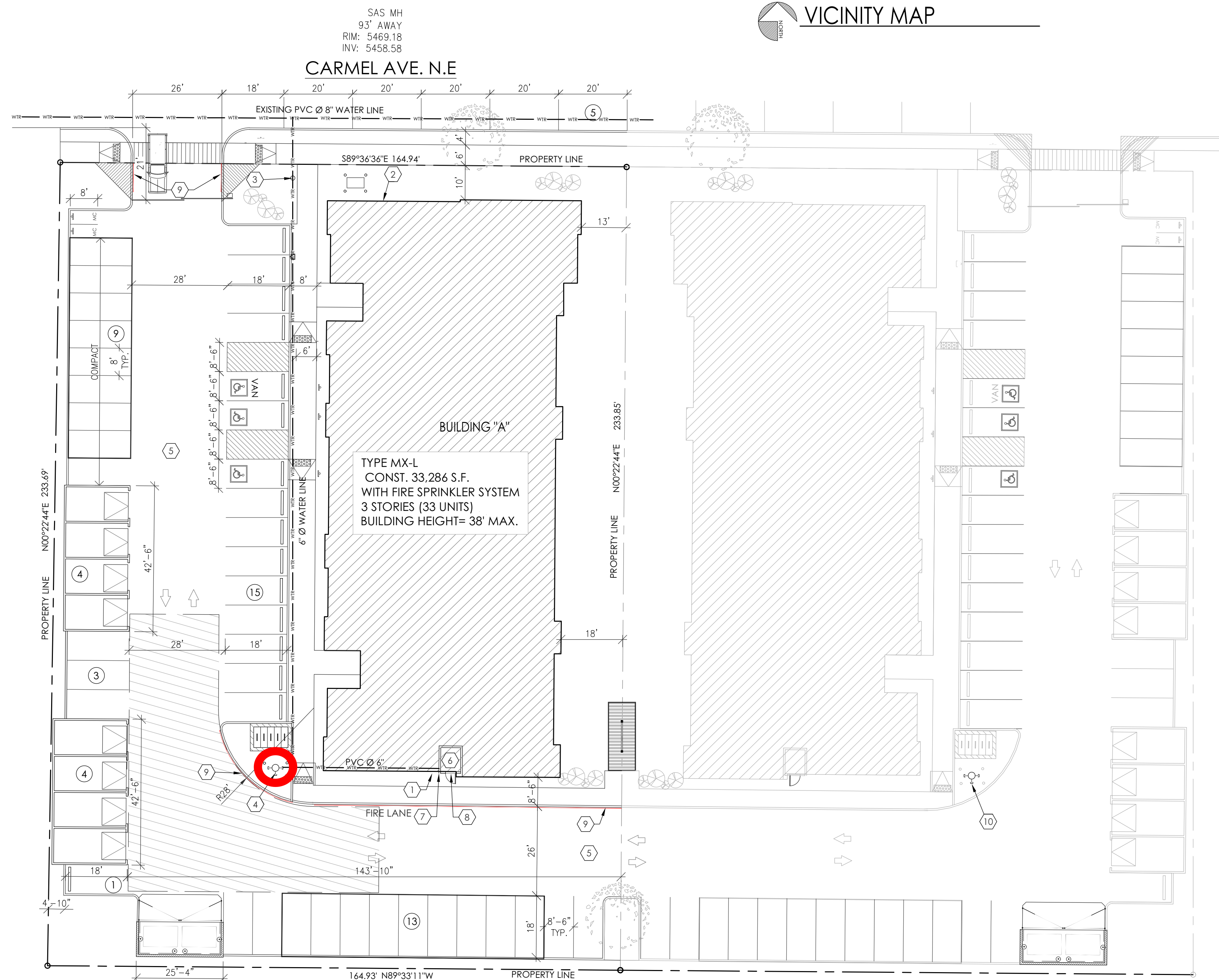
G.C. TO PROVIDE AND INSTALL RECESSED KNOX BOX WITH KEY FOR FIRE DEPARTMENT ACCESS INTO FIRE RISER ROOM, MOUNT BOX 5'-0" HIGH A.F.F.

FIRE DEPARTMENT CONNECTION (FDC) LOCATION. NOTE: FDC LOCATION TO BE WITHIN 100 FEET OF FIRE HYDRANT.

FIRE LANE, PAINT TOP AND SIDE OF CURB RED WITH "FIRE LANE" IN WHITE PAINT.

1ST FLOOR	
(7) ONE BEDROOM APARTMENT HEATED AREAS:	729 S.F. EACH x 7 = 5,103 S.F.
(4) TWO BEDROOM APARTMENT HEATED AREAS:	926 S.F. EACH x 4 = 3,704 S.F.
HALLWAY	= 1,572 S.F.
COVERED PATIOS	= 703 S.F.
FIRE RISER ROOM AREA:	= 40 S.F.
TOTAL 1ST FLOOR AREA:	= 11,122 S.F.
GARAGES AREA:	
	= 1860 S.F.
2ND FLOOR	
(7) ONE BEDROOM APARTMENT HEATED AREAS:	729 S.F. EACH x 7 = 5,103 S.F.
(4) TWO BEDROOM APARTMENT HEATED AREAS:	926 S.F. EACH x 4 = 3,704 S.F.
HALLWAY	= 1,572 S.F.
UNHEATED BREEZEWAY AND COVERED PATIO AREAS:	= 703 S.F.
TOTAL 2nd FLOOR AREA:	= 11,082 S.F.
3RD FLOOR	
(7) ONE BEDROOM APARTMENT HEATED AREAS:	729 S.F. EACH x 7 = 5,103 S.F.
(4) TWO BEDROOM APARTMENT HEATED AREAS:	926 S.F. EACH x 4 = 3,704 S.F.
HALLWAY	= 1,572 S.F.
UNHEATED BREEZEWAY AND COVERED PATIO AREAS:	= 703 S.F.
TOTAL 3RD FLOOR AREA:	= 11,082 S.F.
TOTAL BUILDING AREA:	33,286 S.F.

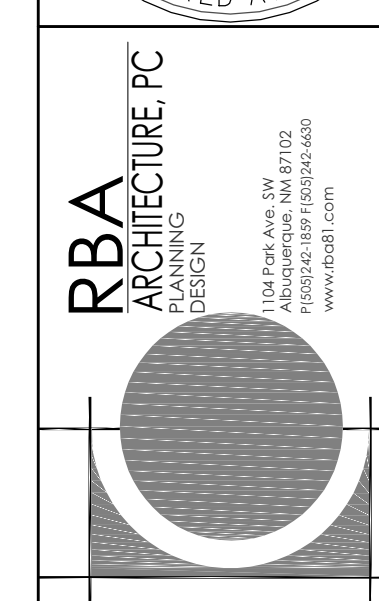
1. KNOX BOX LOCATION BETWEEN 4' AND 6' A.F.F. ILLUMINATED AND IMMEDIATELY VISIBLE.
2. PREMIS ID LOCATION COORDINATE WITH FIRE MARSHAL.
3. FIV LOCATION INSTALLED AS PER NFPA 13
4. PROPOSED FIRE HYDRANT
5. ASPHALT PAVING OVER GRAVEL BASE COURSE. REF: SURFACE CAPABLE OF SUPPORTING 75,000 LBS.
6. FIRE RISER ROOM
7. FDC VALVE
8. G.C. TO PROVIDE AND INSTALL ROOM SIGNAGE AT FIRE RISER ROOM DOOR STATING "FIRE RISER ROOM".
9. FIRE LANE, PAINT CONC. CURB RED AND ADD SIGNAGE TO CURBS 5' HIGH WHITE LETTERS "FIRE LANE PARKING FIRE LANE". TYP. EVERY 15' OVER 4' WIDE RED STRIPE. REF: FIRE ORD. 503.31.
10. PHASE B PROJECT, PROPOSED HYDRANT.

 NORTH

 NORTH 1" = 20'-0"

REVISION DATE

REVISION DATE



DATE 3/3/2022

SHEET NUMBER

FIRE 1