





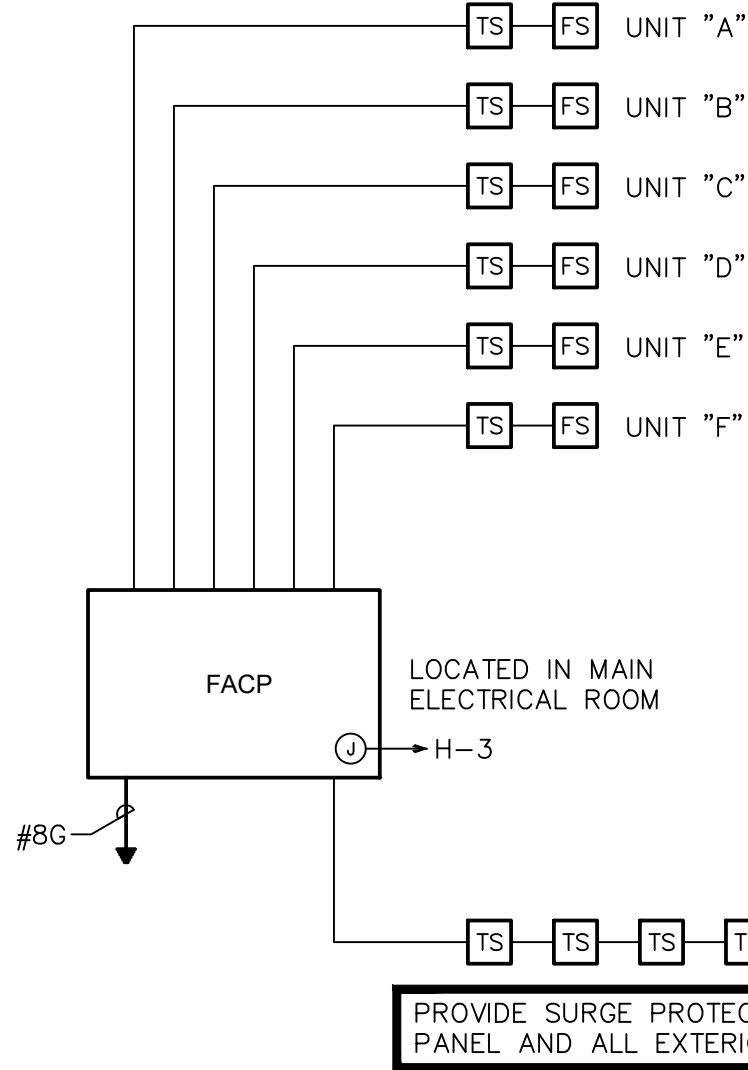



FIRE ALARM SHEET INDEX	
SHEET#	DESCRIPTION
FA0.1	FIRE ALARM NOTES, LEGEND & INDEX
FA2.1	FIRE ALARM PLAN

FIRE ALARM SYMBOLS	
	FIRE ALARM MANUAL PULL STATION. SILENT KNIGHT PS-DA
	PHOTOELECTRIC SMOKE DETECTOR. SYSTEM SENSOR 200 SERIES
	FIRE ALARM CONTROL PANEL. SILENT KNIGHT MODEL 5208
	FIRE ALARM HORN / STROBE COMBINATION. WEATHER PROOF
	TAMPER SWITCH.
	FLOW SWITCH.

FIRE ALARM NOTES	
<p>1. THE MAIN FIRE ALARM CONTROL PANEL SHALL BE A MICROPROCESSOR BASE SYSTEM WITH ADDRESSABLE, INTELLIGENT DETECTORS, ADDRESSABLE CONTROL RELAY AND MONITOR MODULES, VISIBLE AND AUDIBLE SYSTEM ANNUNCIATORS AND OTHER SYSTEM CONTROLLED DEVICES AS REQUIRED.</p> <p>2. PROVIDE REMOTE POWER SUPPLY AS INDICATED FOR EACH FLOOR FOR FUTURE TENANT BUILDOUT. THE FIRE ALARM SHALL BE CAPABLE OF FUTURE EXPANSION AS REQUIRED IN THE TENANT TENANT SPACES.</p> <p>3. ALL WIRING AND CONDUIT TO CONFORM TO N.F.P.A. 72 AND N.E.C. ARTICLE 760. WIRING SHALL BE SOLID COPPER OR STRANDED COPPER WITH A MAX. OF 7 STRANDS FOR 16 GA AND 18 GA, STRANDED COPPER WITH A MAX. OF 19 STRANDS FOR SIZES 14 AND LARGER AS REQUIRED BY N.E.C. 760 AND N.F.P.A. 70.</p> <p>4. ALL FIRE STOP PENETRATIONS SHALL BE MADE WITH APPROVED (NEC) METALLIC CONDUIT AND SHALL BE SEALED WITH A U.L. APPROVED FIRE STOP MATERIAL (SEE FIRE STOP DETAIL)</p> <p>5. ROUTING OF THE FIRE ALARM SYSTEM CONDUIT IS DIAGRAMMATIC ONLY, VERIFY EXACT LOCATIONS PRIOR TO STARTING WORK.</p> <p>6. ALL FIRE ALARM NOTIFICATION APPLIANCES SHALL ACTIVATE UPON INITIATION OF THE GENERAL ALARM.</p> <p>7. ALL FIRE ALARM AUDIBLE SIGNALS SHALL HAVE A THREE PLUS TEMPORAL PATTERN.</p> <p>8. ALL FIRE ALARM AUDIBLE SIGNALS SHALL HAVE A SOUND LEVEL OF AT LEAST 15 dba ABOVE THE AVERAGE AMBIENT SOUND LEVEL.</p> <p>9. MANUAL STATIONS SHALL BE INSTALLED AT 48" INCHES A.F.F.</p> <p>10. WALL MOUNTED FIRE ALARM SYSTEM AUDIBLE/VISUAL SIGNALS (COMBINATION DEVICES) SHALL BE MOUNTED SUCH THAT THE ENTIRE STROBE LENS IS 80" A.F.F. OR 6" BELOW CEILING, WHICHEVER IS LOWER.</p> <p>11. WALL MOUNTED FIRE ALARM SYSTEM VISUAL SIGNALS (STROBES) SHALL BE MOUNTED SUCH THAT THE ENTIRE STROBE LENS IS 80" A.F.F. OR 6" BELOW CEILING, WHICHEVER IS LOWER.</p> <p>12. SMOKE DETECTORS TO BE INSTALLED AS REQUIRED BY N.F.P.A. 72.</p> <p>13. THE FIRE ALARM PANEL SHALL HAVE AN EARTH GROUND CONNECTION AS REQUIRED BY THE SYSTEM MANUFACTURER, AND N.E.C. ARTICLE 760. MINIMUM WIRE SIZE IS #8 AWG FOR GROUND CONNECTION. (NOTE: PANEL NEUTRAL OR CONDUIT GROUND IS NOT ACCEPTABLE).</p> <p>14. A GENERAL ALARM SHALL BE ANNUNCIATED UPON ACTIVATION OF ANY PULL STATION, FLOW SWITCH OR DETECTION DEVICE.</p> <p>15. A TROUBLE SIGNAL SHALL BE ANNUNCIATED UPON FAILURE OR REMOVAL OF ANY DETECTION OR MANUAL DEVICE.</p> <p>16. A SUPERVISORY SIGNAL SHALL BE ANNUNCIATED UPON ACTIVATION OF ANY FIRE SPRINKLER SYSTEM TAMPER SWITCH.</p> <p>17. HVAC DUCT SMOKE DETECTORS SHALL BE CONNECTED TO THE FIRE ALARM CONTROL PANEL AND SHALL INITIATE A SUPERVISORY SIGNAL ONLY.</p> <p>18. FIRE ALARM SYSTEM SHALL BE U.L. CERTIFIED.</p> <p>19. ALL FIRE ALARM INITIATING DEVICES SHALL BE ADDRESSABLE AND ALL FIRE ALARM CIRCUITS SHALL BE CLASS "B", STYLE "C".</p> <p>20. SECURITY LOCK SYSTEM (BY OTHERS) SHALL BE TIED INTO FIRE ALARM SYSTEM. EMERGENCY EXITS SHALL UNLOCK UPON RECEIPT OF ANY FIRE SIGNAL OR LOSS OF PRIMARY POWER.</p> <p>21. PROVIDE CERTIFICATE OF COMPLETION AT THE FINAL INSPECTION OF THE FIRE ALARM SYSTEM.</p> <p>22. FIRE ALARM CONTRACTOR SHALL PROVIDE A DETAILED SET OF SIGNED AND SEALED (BY CONTRACTORS ENGINEER) SHOP DRAWINGS (INCLUDING DEVICE CUT SHEETS), A COMPLETE POINT TO POINT WIRING DIAGRAM, FLOOR PLAN DRAWINGS INDICATING ALL DEVICE LOCATIONS AND NUMBERS, COMPLETE BATTERY CALCULATIONS AND COMPLETE NOTIFICATION APPLIANCE CIRCUIT CALCULATIONS (FOR THE SYSTEM TO BE INSTALLED) TO THE BUILDING DEPARTMENT (AUTHORITY HAVING JURISDICTION) AT THE TIME OF APPLICATION FOR BUILDING PERMIT.</p> <p>23. PROVIDE THE OWNER WITH A COMPLETE FIRE ALARM SYSTEM AND INSTALLATION MANUAL COVERING ALL SYSTEM EQUIPMENT INSTALLED FOR THIS PROJECT. KEEP AT THE MAIN FIRE ALARM CONTROL PANEL.</p>	



NEW SHEET

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PROJECT MANAGER: Rick Gonzalez	
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02-05-20	date
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BLDG. DEPT.
COMMENTS 1/17/20

PROJECT NUMBER 4/2018

FIRE ALARM NOTES

DESIGNED BY:
Alex Penna & Rex Nichols

DATE:
JUNE 12TH 2019

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TYPICAL PLUMBING FIXTURE CONNECTION SCHEDULE						
TYPE	SOIL / WASTE	VENT	TRAP	CW	HW	REMARKS
2" HUB DRAIN	2"	2"	2"	—	—	PROVIDE ½" CW TRAP PRIMER AND PROSET TRAP GUARD.
OUTLET BOX	—	—	—	½"	—	PROVIDE w/ INTEGRAL WATER HAMMER ARRESTOR.
KITCHEN SINK	2"	2"	1½"	½"	½"	1.0 GPM AT 60 PSI MAXIMUM.
LAVATORY (PRIVATE)	2"	2"	1¼"	½"	½"	0.5 GPM AT 60 PSI MAXIMUM. (0.25 GALLON METERING CYCLE)
REFRIGERATOR	—	—	—	½"	—	PROVIDE WITH VACUUM BREAKER.
WATER CLOSET (FLUSH TANK)	3" OR 4"	2"	INTEGRAL	½"	—	1.28 GALLONS PER FLUSHING CYCLE MAXIMUM.
NOTE: PLUMBING FIXTURE CONNECTION SCHEDULE IS SHOWN FOR CONVENIENCE ONLY. PLUMBING CONTRACTOR TO CONFIRM FINAL PLUMBING FIXTURE CONNECTION SIZES WITH PLUMBING FIXTURE MANUFACTURER'S REQUIREMENTS. ALL FIXTURES SHALL COMPLY WITH LOCAL WATER-USE EFFICIENCY REQUIREMENTS.						

SHOCK ARRESTOR SCHEDULE			
P.D.I. DESIGNATION	MANUF. & MODEL	FIXTURE UNITS	CONNECTION
A	SIoux CHIEF 652-A	1-11	1/2"
B	SIoux CHIEF 653-B	12-32	3/4"
C	SIoux CHIEF 654-C	33-60	1"
SIoux CHIEF SHOCK ARRESTORS APPROVED FOR INSTALLATION WITH NO ACCESS DOOR REQUIRED. CONFORMS TO ANSI/ASSE 1010 STANDARDS.			

SLOPE OF HORIZ. DRAINAGE PIPE	
SIZE (inches)	MINIMUM SLOPE (inch per foot)
2-1/2 or less	1/4
3 to 6	1/8
8 or larger	1/16
TABLE 704.1 OF THE FLORIDA PLUMBING CODE 2017	

CONDENSATE DRAIN PIPE SIZING	
EQUIPMENT CAPABILITY	MINIMUM CONDENSATE PIPE DIAMETER (inch)
UP TO 20 TONS OF REFRIGERATION	1"
OVER 21 TONS TO 40 TONS OF REFRIGERATION	1-1/4"
OVER 41 TONS TO 60 TONS OF REFRIGERATION	1-1/2"

PLUMBING FIXTURE SCHEDULE	
L1	BY OWNER /ARCHITECT
L2	BY OWNER /ARCHITECT
WC1	BY OWNER /ARCHITECT
SK1	BY OWNER /ARCHITECT
SK2	BY OWNER /ARCHITECT
SK3	BY OWNER /ARCHITECT
SH	BY OWNER /ARCHITECT
SH2	BY OWNER /ARCHITECT
TUB	BY OWNER /ARCHITECT
EW1	ELECTRIC WATER HEATER, LOCHINVAR MODEL #HPA082KD, 80 GALLON, 208V/240V/1ø/4.5KW.
OB1	WATER OUTLET BOX, GUY GRAY MODEL #BIM875QTSAB WITH LEAD-FREE QUARTER-TURN VALVE & INTEGRAL WATER-HAMMER ARRESTOR.
OB2	WASHING MACHINE OUTLET BOX, GUY GRAY MODEL #B200 WITH LEAD-FREE QUARTER-TURN VALVES, INTEGRAL WATER-HAMMER ARRESTORS, AND 2" DRAIN CONNECTION.
HB	HOSE BIB, MIFAB #MHY-9041, ROUGH BRASS, LOOSE KEY OPERATOR, INTEGRAL VACUUM BREAKER, 1/2" SUPPLY CONNECTION. INSTALL ø 18"-24" A.F.F. UNLESS NOTED OTHERWISE.
GENERAL NOTES: (1) - FIXTURES SHALL BE AS SHOWN OR EQUAL. (2) - ALL FIXTURES SHALL COMPLY WITH TABLE 604.4 OF FBC 2017. (3) - ALL FIXTURE TRIM PACKAGES INCLUDING BUT NOT LIMITED TO TRAP, ANGLE STOP, FLUSH VALVE, SUPPLY TUBES, AND CLEANOUT COVER PLATES SHALL BE OF THE SAME FINISH AS THE ABOVE SPECIFIED FAUCET AND PER ARCHITECTURAL FINISH SCHEDULE. (4) - ALL FIXTURES SHALL BE ROUGHED IN PER MANUFACTURER CUT SHEET TO MAINTAIN UNIFORMITY.	

PLUMBING SHEET INDEX	
SHEET#	DESCRIPTION
P0.1	PLUMBING INDEX, NOTES, AND DETAILS
P0.2	DETAILS
P1.1	PLUMBING SITE PLAN
P2.1A	PLUMBING DRAINAGE PLAN (UNDERGROUND)
P2.1B	PLUMBING DRAINAGE PLAN LEVEL 1
P2.2	PLUMBING DRAINAGE PLAN LEVEL 2
P2.3	PLUMBING DRAINAGE PLAN LEVEL 3
P2.4	PLUMBING DRAINAGE PLAN ROOF DECK
P3.1	PLUMBING SERVICE PLAN LEVEL 1
P3.2	PLUMBING SERVICE PLAN LEVEL 2
P3.3	PLUMBING SERVICE PLAN LEVEL 3
P3.4	PLUMBING SERVICE PLAN ROOF DECK
P5.1	TH A - SANITARY AND DOMESTIC WATER ISOMETRICS
P5.2	TH B-E - SANITARY AND DOMESTIC WATER ISOMETRICS
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P5.6	TH A - STORM ISOMETRICS
P5.7	TH B-E - STORM ISOMETRICS
P5.8	TH F - STORM ISOMETRICS

PIPE SYSTEM LEGEND

	SANITARY
	VENT
	STORM DRAIN
	DOMESTIC COLD WATER - STREET PRESSURE
	DOMESTIC HOT WATER 110°F
	DOMESTIC HOT WATER RETURN 110°F
	GAS
	ELEVATOR SUMP PIT DISCHARGE

PLUMBING NOTES	
1.	THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY FOR THE INSTALLATION OF A COMPLETE SCOPE OF WORK. ALL WORKMANSHIP AND MATERIALS SHALL BE IN STRICT ACCORDANCE WITH THE FLORIDA BUILDING CODE 6th EDITION (2017) - PLUMBING, APPLICABLE LOCAL CODES, RULES, AND ORDINANCES.
2.	THE PLUMBING CONTRACTOR SHALL VISIT THE JOB SITE AND BECOME THOROUGHLY FAMILIAR WITH ALL EXISTING CONDITIONS.
3.	ALL MATERIALS SHALL BE NEW AND OF GOOD QUALITY.
4.	ALL WORK SHALL BE PERFORMED BY A LICENSED PLUMBING CONTRACTOR IN A FIRST CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY-OPERATIONAL. ALL EXCAVATION AND BACKFILL AS REQUIRED FOR THIS PHASE OF CONSTRUCTION SHALL BE A PART OF THIS CONTRACT.
5.	REQUIRED INSURANCE SHALL BE PROVIDED BY THE PLUMBING CONTRACTOR FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
6.	PLUMBING CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, FEES, INSPECTIONS AND TESTS. PLUMBING CONTRACTOR SHALL OBTAIN PERMIT AND APPROVED SUBMITTALS PRIOR TO BEGINNING WORK OR ORDERING EQUIPMENT. PLUMBING CONTRACTOR MUST BE PRESENT FOR ALL INSPECTIONS OF HIS WORK BY REGULATORY AUTHORITIES.
7.	CONTRACTOR SHALL SUBMIT TO ARCHITECT/ENGINEER, FOR REVIEW & APPROVAL, FIVE (5) SETS OF MANUFACTURER'S CUT SHEETS FOR EACH FIXTURE, PIPING/FITTING MATERIAL AND EQUIPMENT ITEM WITH ASSOCIATED CONTROLS, THAT ARE INCLUDED IN THE CONTRACT.
8.	DRAWINGS ARE DIAGRAMMATIC. DO NOT SCALE FOR THE EXACT LOCATION OF FIXTURES, PIPING, EQUIPMENT, ETC.
9.	ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION. REPORT ANY DISCREPANCY TO ARCHITECT/ENGINEER PRIOR TO BEGINNING CONSTRUCTION.
10.	VERIFY LOCATION, SIZE, DIRECTION OF FLOW AND INVERT ELEVATIONS OF ALL EXISTING UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION. ADVISE ARCHITECT/ENGINEER OF ANY DISCREPANCIES.
11.	WATER DISTRIBUTION PIPING ABOVE AND BELOW GROUND SHALL BE TYPE "L" COPPER. ALTERNATE PIPING & FITTING MATERIALS MAY BE USED IN ACCORDANCE WITH FLORIDA BUILDING CODE 6th EDITION (2017) - PLUMBING, TABLES 605.3, 605.4 & 605.5, WHEN APPROVED BY ENGINEER OF RECORD AND LOCAL AUTHORITY HAVING JURISDICTION. PROVIDE ALTERNATE FOR CPVC PIPING & FITTINGS EQUAL TO LUBRIZOL CORZAN OR FLOW-GUARD GOLD. PROVIDE ALTERNATE FOR PEX TYPE "A" PIPING & FITTINGS EQUAL TO UPONOR. ALTERNATES ARE PERTINENT FOR WATER SERVICES KNOWN OR DETERMINED TO HAVE ACIDIC CHARACTERISTICS OR OTHER PARTICULAR CIRCUMSTANCES AS DEEMED APPROPRIATE BY DIRECTIVE FROM THE OWNER. CONTRACTOR SHALL PERFORM A WATER TEST TO DETERMINE WATER CHEMISTRY PRIOR TO ANY WORK OR PERMIT SUBMITTAL. TEST RESULTS TO THE ARCHITECT/ENGINEER FOR REVIEW AND APPROVAL. DISINFECTION OF POTABLE WATER SYSTEM SHALL COMPLY WITH FLORIDA BUILDING CODE 6th EDITION (2017) - PLUMBING, SECTION 610. ALL WATER PIPING & FITTINGS SHALL BE OF DOMESTIC MANUFACTURE; SPECIFICALLY IN THE UNITED STATES OF AMERICA.
12.	SOIL, WASTE, VENT, AND RAINWATER (DWW) PIPING & FITTINGS SHALL BE CAST IRON OR PVC, WHERE CODE ALLOWS. PVC MAY NOT BE USED THRU RATED ASSEMBLIES OR IN PLENUMS. PVC PIPING SHALL BE SOLID-CORE ONLY. FOAM-CORE PIPING SHALL NOT BE ACCEPTED. CAST IRON PIPING & FITTINGS SHALL BEAR THE CIPSF 501 MARK. ALL DWW PIPING & FITTINGS SHALL BE OF DOMESTIC MANUFACTURE; SPECIFICALLY IN THE UNITED STATES OF AMERICA.
13.	NATURAL & PROPANE FUEL GAS PIPING SHALL BE THE FOLLOWING: UNDERGROUND - PE PIPE COMPLYING WITH ASTM D2583 OR ASTM D2581; SDR 11 TRANSITION FITTINGS. ABOVEGROUND - SCHEDULE 40 BLACK STEEL COMPLYING WITH ASTM A53 AND THREADED, WELDED, OR FLANGED FITTINGS. CORRUGATED STAINLESS STEEL TUBING COMPLYING WITH ANSI/AS LC1 SHALL BE ALLOWED ONLY WITHIN INTERIOR ACCESSIBLE SPACES.
14.	COMPRESSED AIR PIPING SHALL BE ASTM B241 EXTRUDED ALUMINUM ALLOY COMPLIANT WITH ASME B31.1 OR GALVANIZED BLACK STEEL IN ACCORDANCE WITH DIN EN 10255. ALUMINUM PIPING AND MECHANICAL GROOVED-JOINT FITTINGS SHALL BE AIRNET, TRANSAIR, OR APPROVED EQUAL. STEEL PIPING AND MECHANICAL GROOVED-JOINT FITTINGS SHALL BE VIEGA MEGAPRESS OR APPROVED EQUAL.
15.	ALL FIXTURES MUST BE PROVIDED WITH READILY ACCESSIBLE ANGLE STOPS AND APPROPRIATELY MARKED ACCESS PANELS (WHERE REQUIRED). COORDINATE LOCATIONS WITH GENERAL CONTRACTOR PRIOR TO INSTALLATION.
16.	PROVIDE APPROVED WATER HAMMER ARRESTORS FOR ALL (GROUP) PLUMBING FIXTURES, SIZED & LOCATED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS & PDI-WH201.
17.	PROVIDE DIELECTRIC COUPLINGS OR FLANGES BETWEEN ALL DISSIMILAR METALS IN PIPING AND EQUIPMENT CONNECTIONS.
18.	ISOLATE COPPER PIPING FROM METALLIC HANGERS OR SUPPORTS WITH ISOLATOR PADS OR NON-CONDUCTIVE MATERIAL.
19.	ALL FIRE RATED FLOOR AND WALL PENETRATIONS SHALL BE PROPERLY PROTECTED FROM FIRE, SMOKE AND WATER PENETRATION BY FILLING ANNULAR SPACE BETWEEN PIPING AND SLEEVES WITH INTUMESCENT CAULK, TO ACHIEVE THE SAME RATING AS WALLS OR FLOORS, AS PART OF THE PLUMBING CONTRACTOR'S WORK.
20.	PLUMBING CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE (1) YEAR FROM DATE OF ACCEPTANCE BY OWNER. CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED.
21.	PROVIDE ACCESS PANELS FOR ALL CONCEALED VALVES. ACCESS PANELS IN RATED WALLS SHALL MAINTAIN THE SAME RATING AND SHALL MATCH THE FINISH OF THE WALL IN WHICH IT IS INSTALLED.
22.	PROVIDE COMBINATION CLEANOUT PLUG AND COVER PLATE OR ACCESS PANEL FOR ALL WALL CLEANOUTS. FINISH TO MATCH NEARBY FIXTURE TRIM.
23.	NO COMBUSTIBLE MATERIAL SHALL BE INSTALLED IN MECHANICAL ROOMS NOR IN CEILING SPACES WHERE USED AS RETURN AIR PLENUMS.
24.	NO WATER, SANITARY OR DRAINAGE PIPING SHALL BE INSTALLED IN ELECTRICAL OR ELEVATOR EQUIPMENT ROOMS.
25.	ALL CONTROL VALVES SHALL BE TAGGED AND MARKED. A REPRODUCIBLE DIAGRAM LOCATING ALL VALVES SHALL BE FURNISHED FOR OWNER/OPERATOR.
26.	CONDENSATE DRAIN PIPING SHALL BE TYPE "L" COPPER WITH ARMAFLEX INSULATION AND A VAPOR-BARRIER JACKET PER FLORIDA BUILDING CODE 6th EDITION (2017) - ENERGY CONSERVATION, TABLE C403.2.8. PVC WITHOUT INSULATION IS ACCEPTABLE FOR RISERS AND BELOW GRADE PIPING. WHEN USED IN A RETURN AIR PLENUM, CPVC PIPING WITH INSULATION IS ACCEPTABLE IN LOCATIONS WHERE ALLOWED BY LOCAL CODES. CONDENSATE PIPING SHALL NOT DRAIN ONTO THE ROOFING SYSTEM NOR ANY OF ITS COMPONENTS. CONDENSATE PIPING ARRANGEMENT IS EXEMPT FROM MINIMUM EQUIPMENT CLEARANCE REQUIREMENTS PER FLORIDA BUILDING CODE 6th EDITION (2017), SECTION 1522.3.5. ALL HORIZONTAL RAINWATER PIPING RUN ABOVE FINISHED FLOOR THAT RECEIVES CONDENSATE DISCHARGE SHALL BE INSULATED WITH ARMAFLEX AND A VAPOR-BARRIER JACKET.
27.	HOT WATER PIPING INSULATION SHALL BE PROVIDED IN ACCORDANCE WITH FLORIDA BUILDING CODE 6th EDITION (2017) - PLUMBING, SECTION 607.5 & FLORIDA BUILDING CODE 6th EDITION (2017) - ENERGY CONSERVATION, TABLE C403.2.10. CONTRACTOR SHALL USE ARMAFLEX OR EQUAL WHERE APPLICABLE. WHERE DOMESTIC WATER TEMPERATURES CAN CAUSE SWEATING, ALL COLD WATER PIPING SHALL BE INSULATED WITH ARMAFLEX INSULATION AND A VAPOR-BARRIER JACKET, PER FLORIDA BUILDING CODE 6th EDITION (2017) - ENERGY CONSERVATION, TABLE C403.2.10.
28.	AIR ADMITTANCE VALVES MAY BE USED AS AN ALTERNATE TO VENT PIPING THRU ROOF WHERE ACCEPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION. INSTALLATION METHODS SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS.

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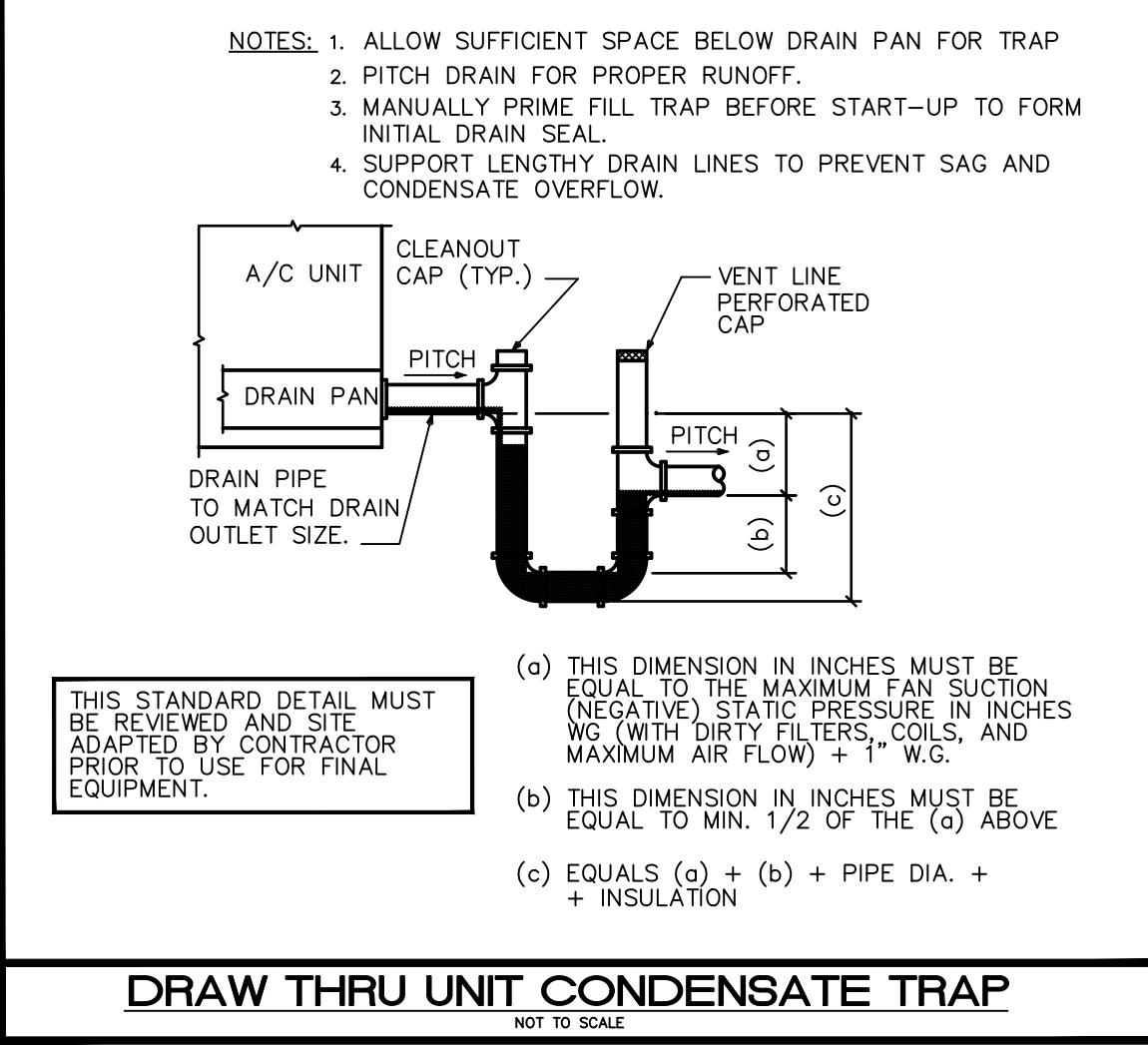
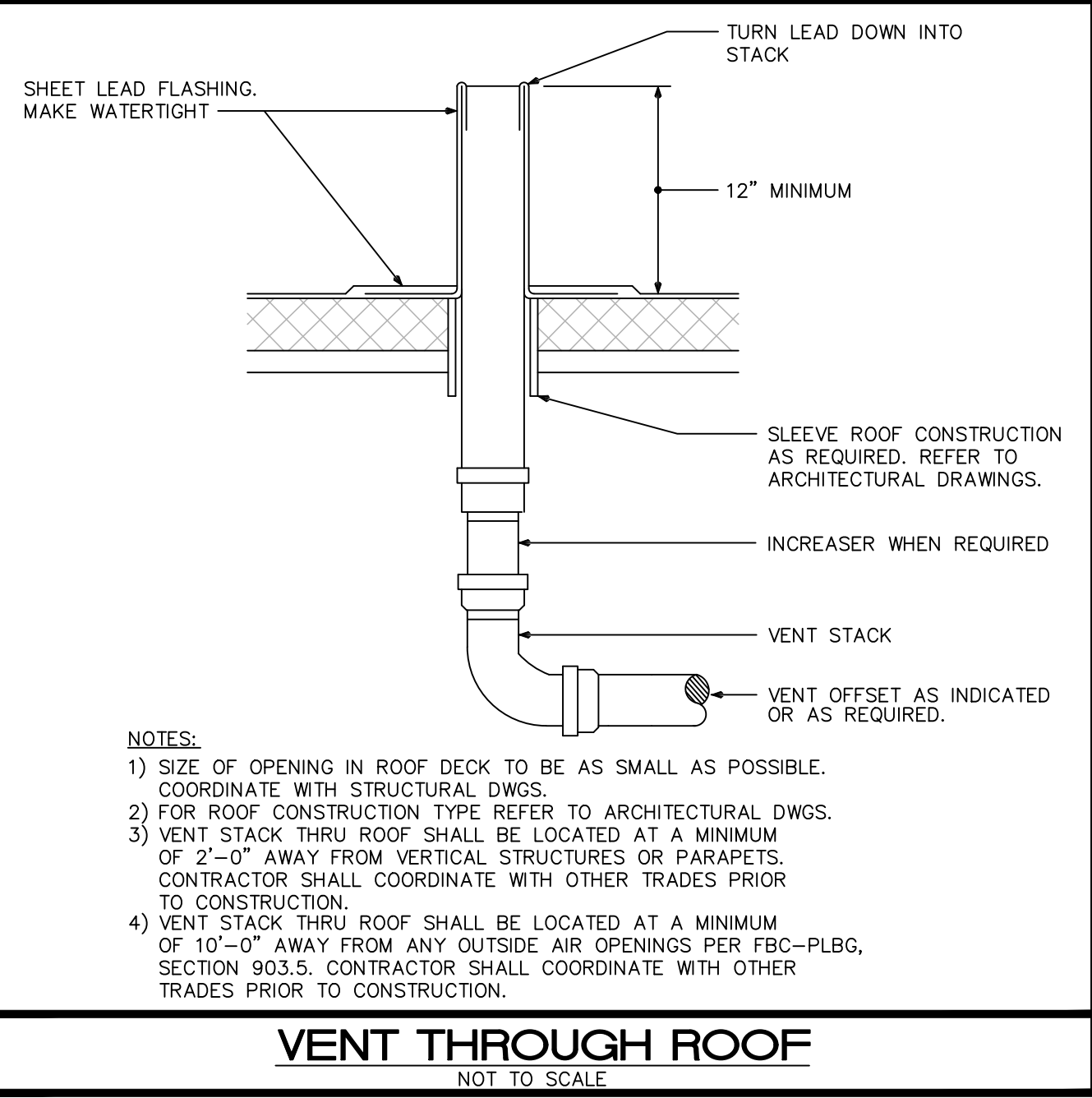
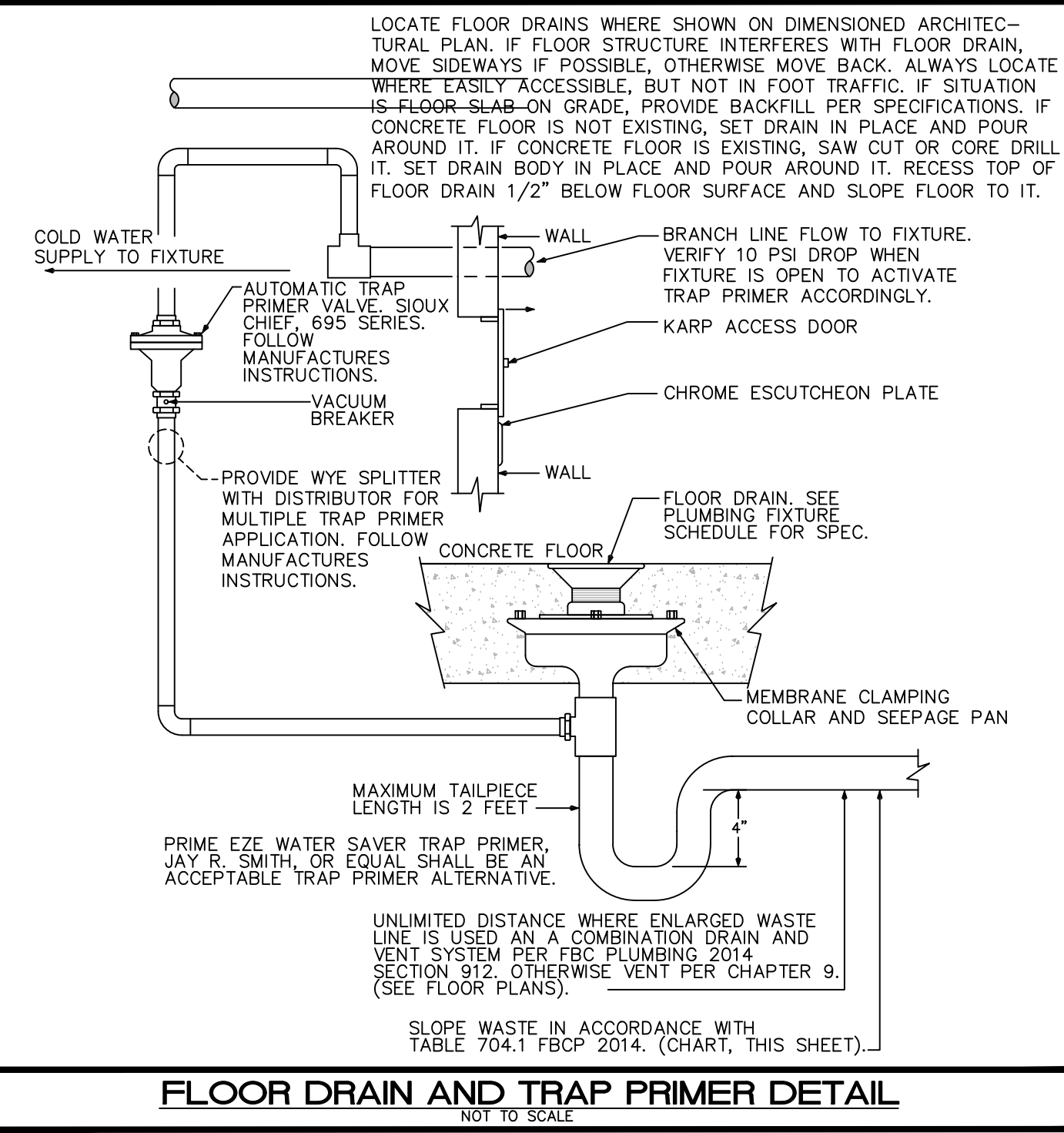
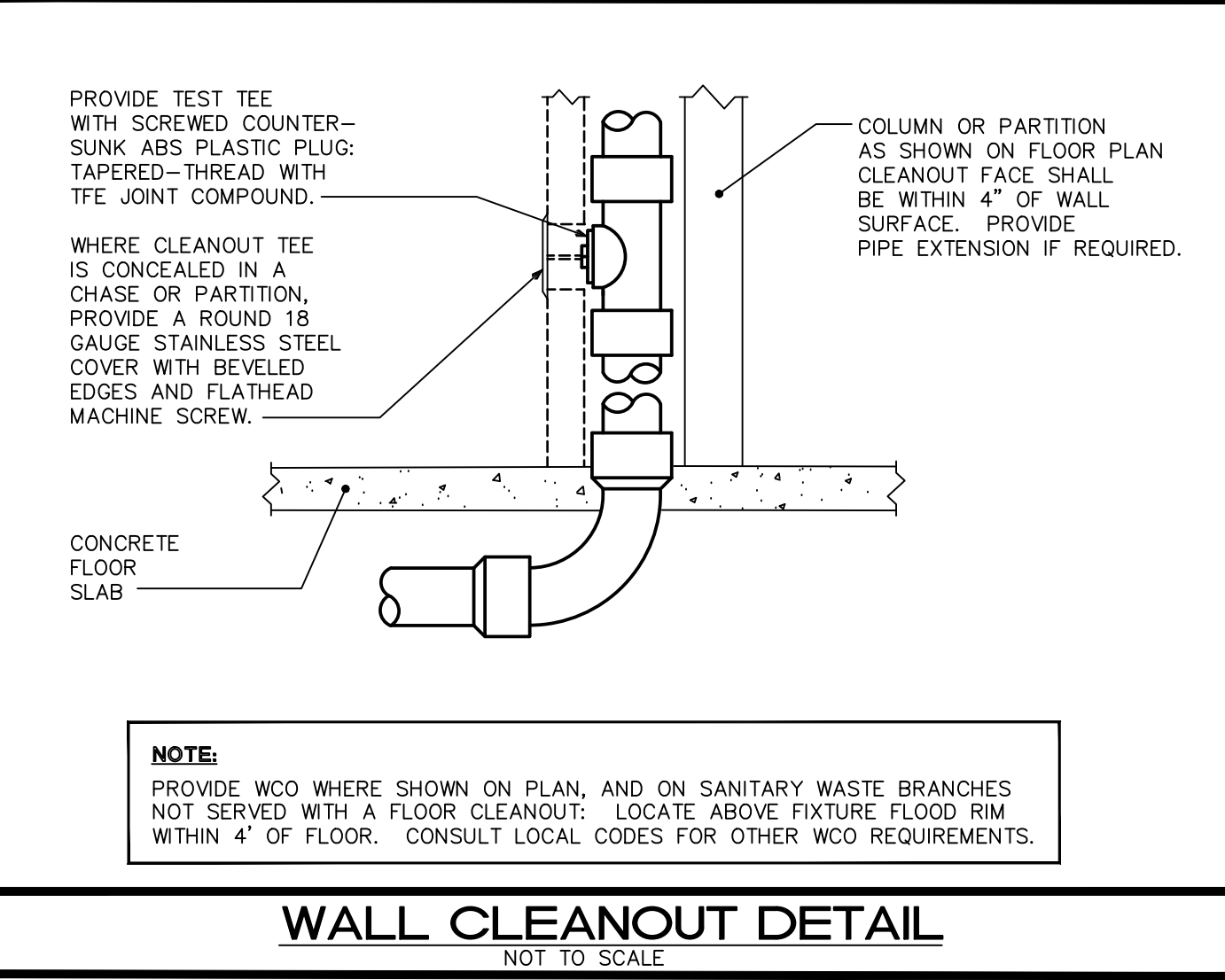
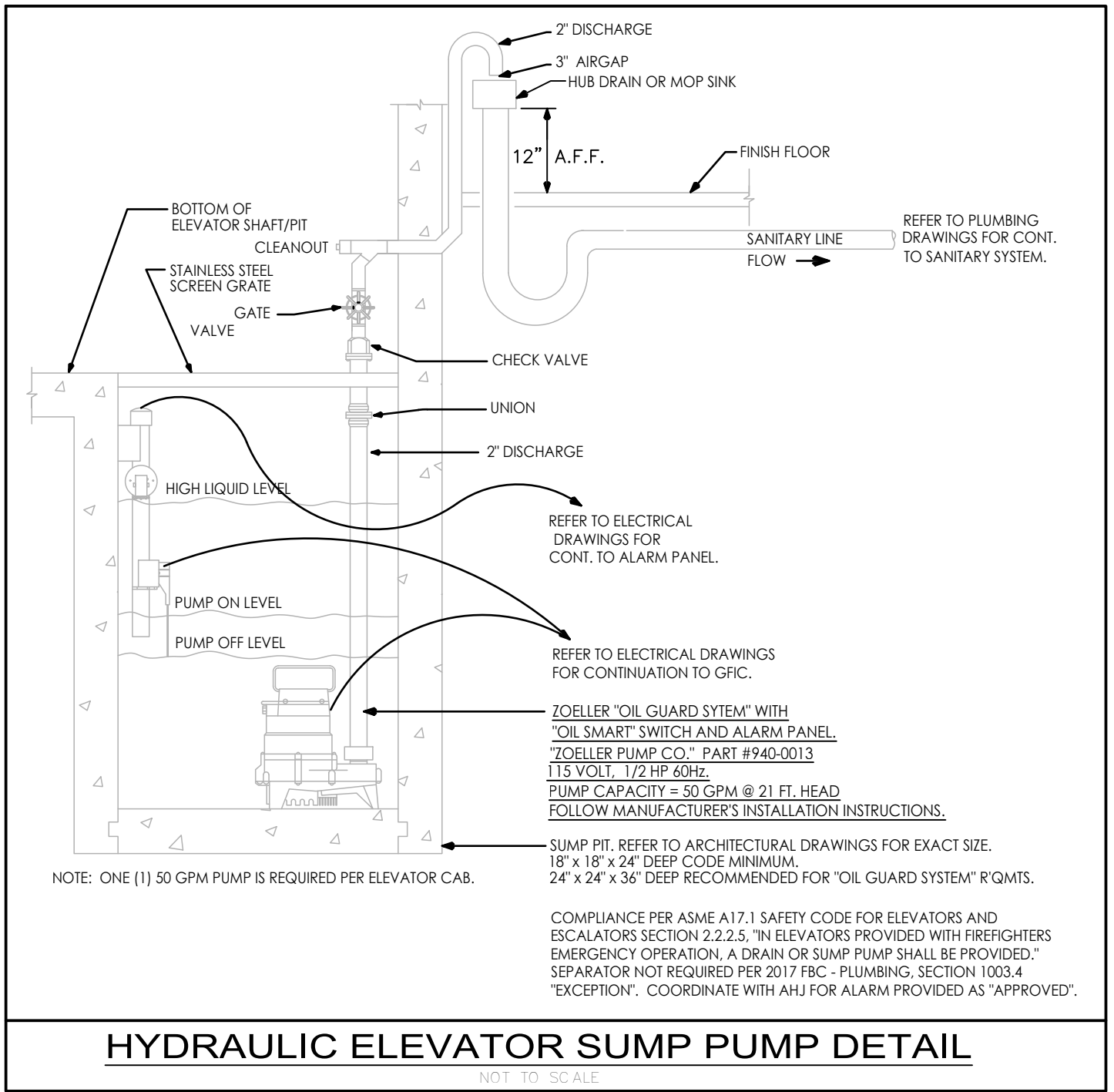
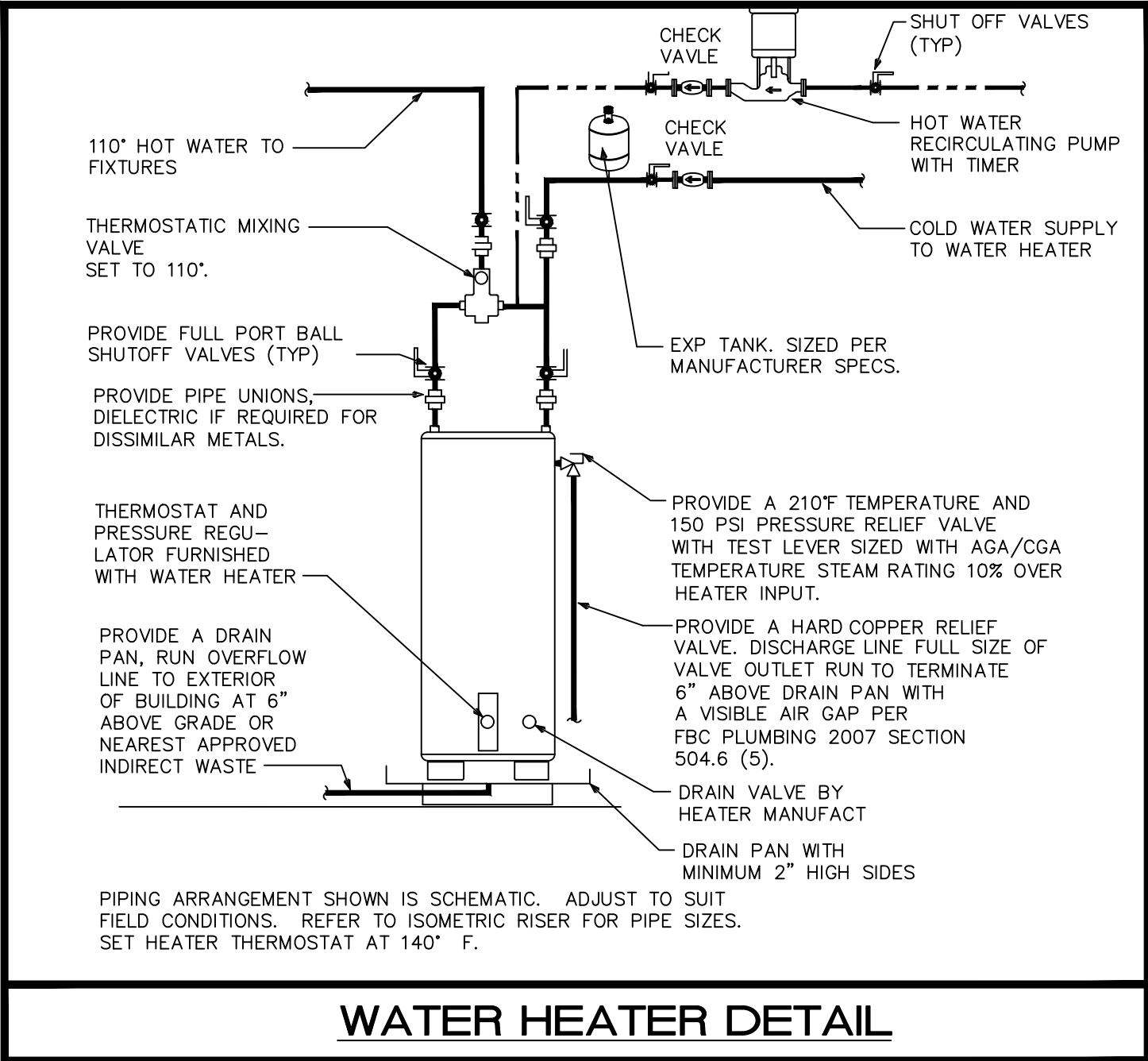
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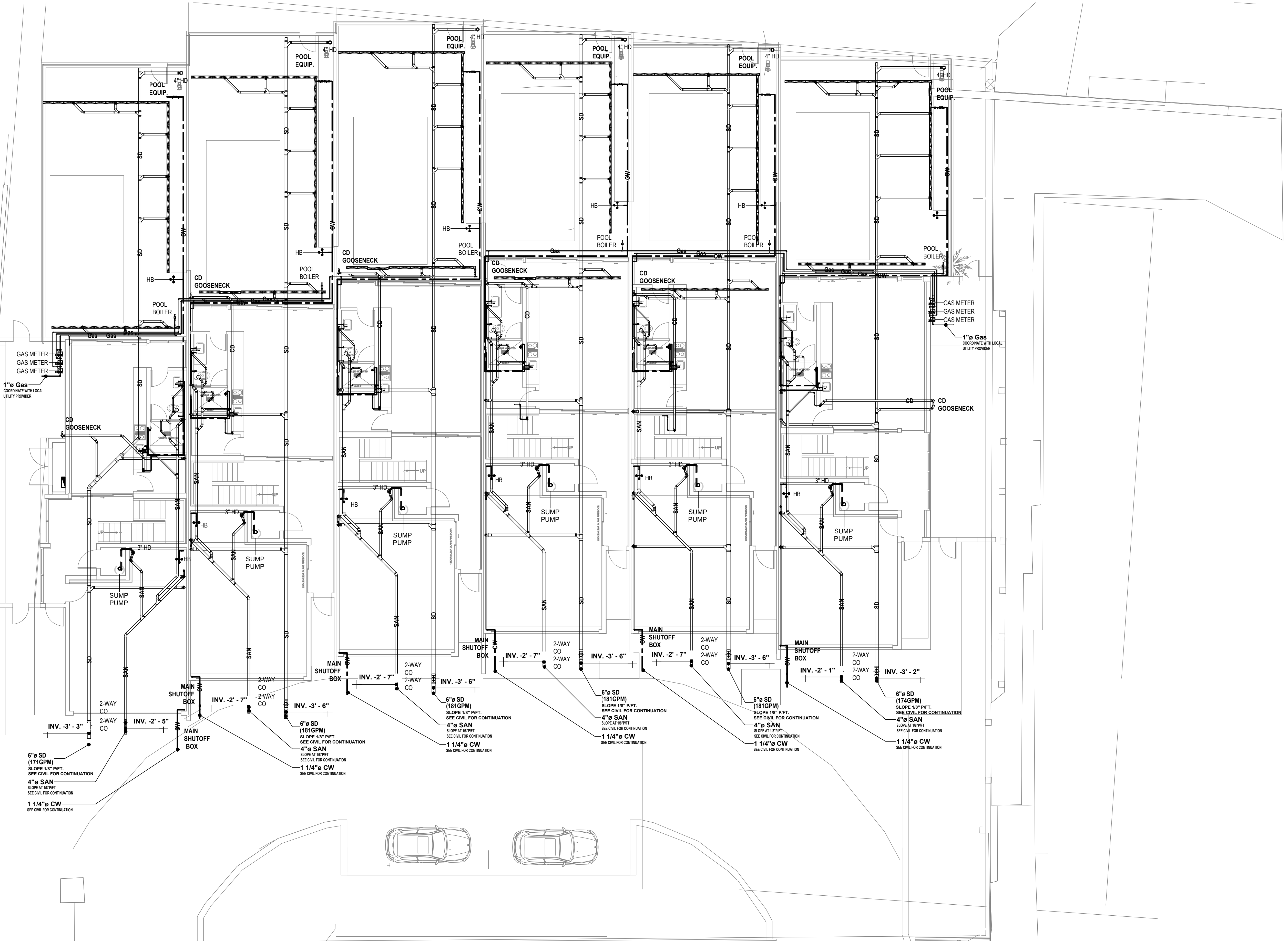
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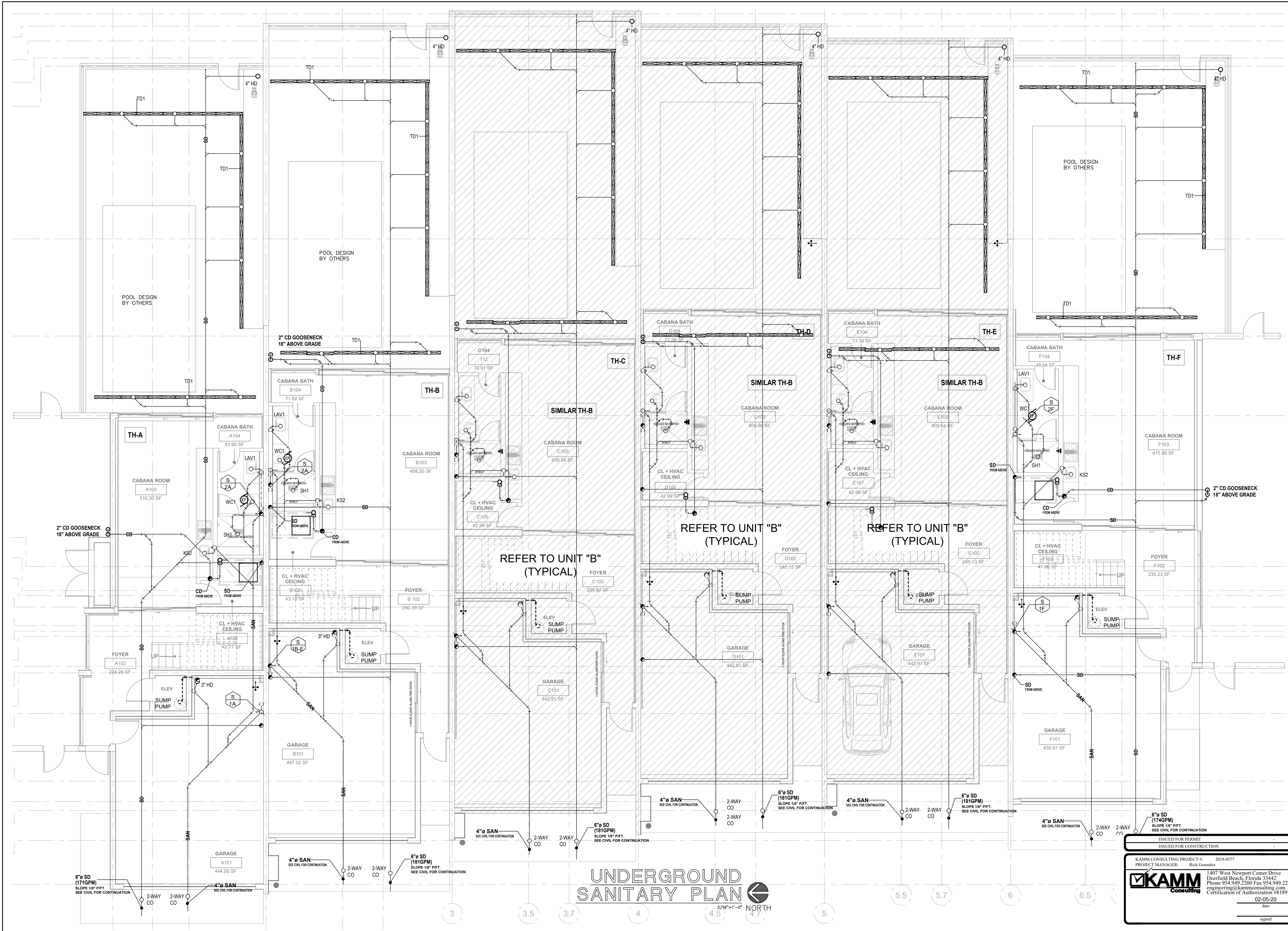
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SITE PLUMBING PLAN
1"=20'-0" NORTH

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PROJECT MANAGER:		Rick Gonzalez	
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PROPOSED TOWNHOUSES ADDRESS 700 BRINY
AV, POMPAÑO BEACH, 33062

OWNER: CARLO TREE LP
GREENPARK GROUP
5600 N Federal Highway
Fort Lauderdale - FL - 33308

PROJECT NUMBER 4/2018

SANITARY PLAN
1ST FLOOR

DESIGNED BY:
Alex Penna & Rex Nichols
.....
DATE:
JUNE 12TH 2019

ISSUED FOR

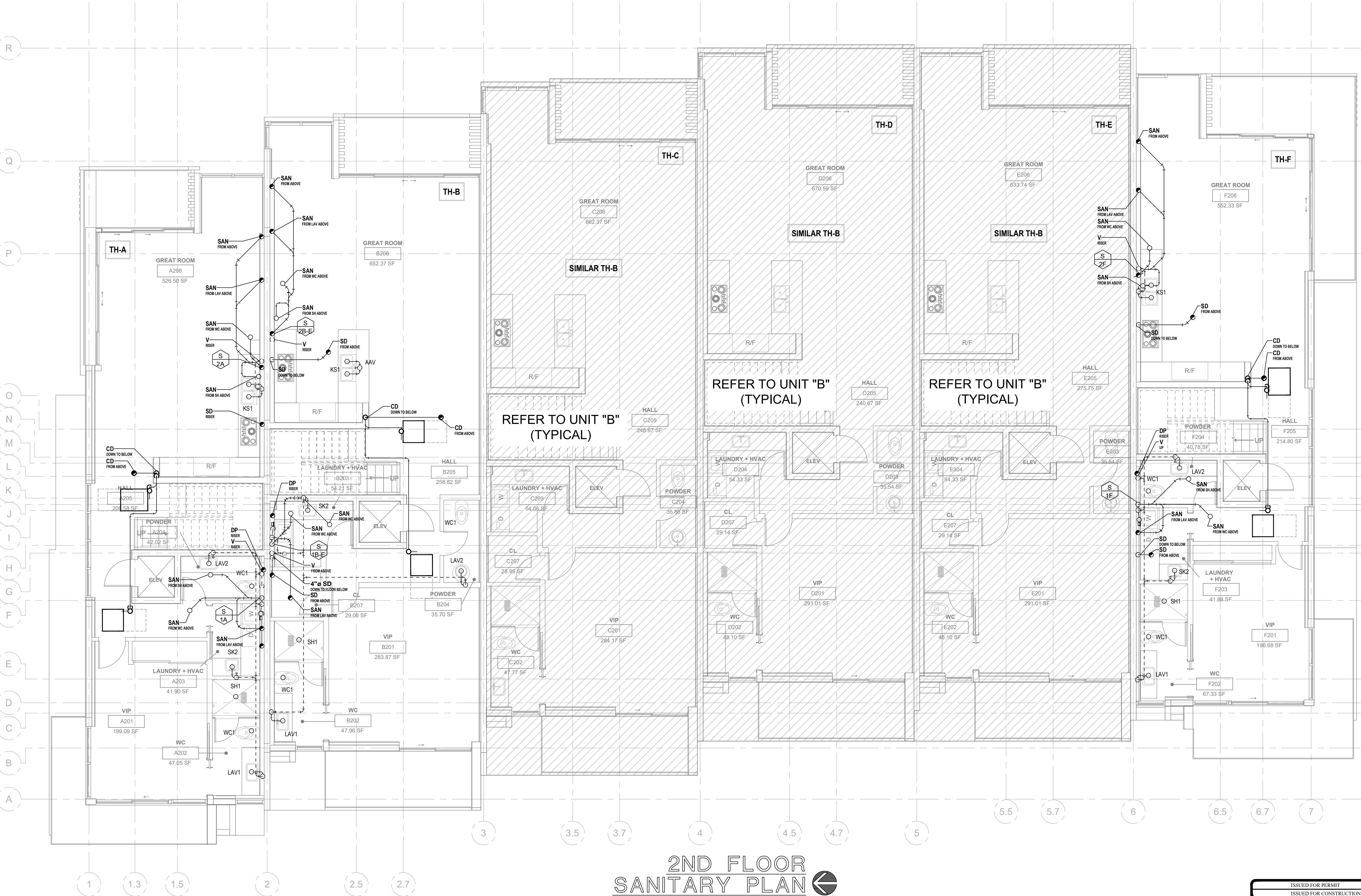
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2ND FLOOR
SANITARY PLAN
3/16"=1'-0" NORTH

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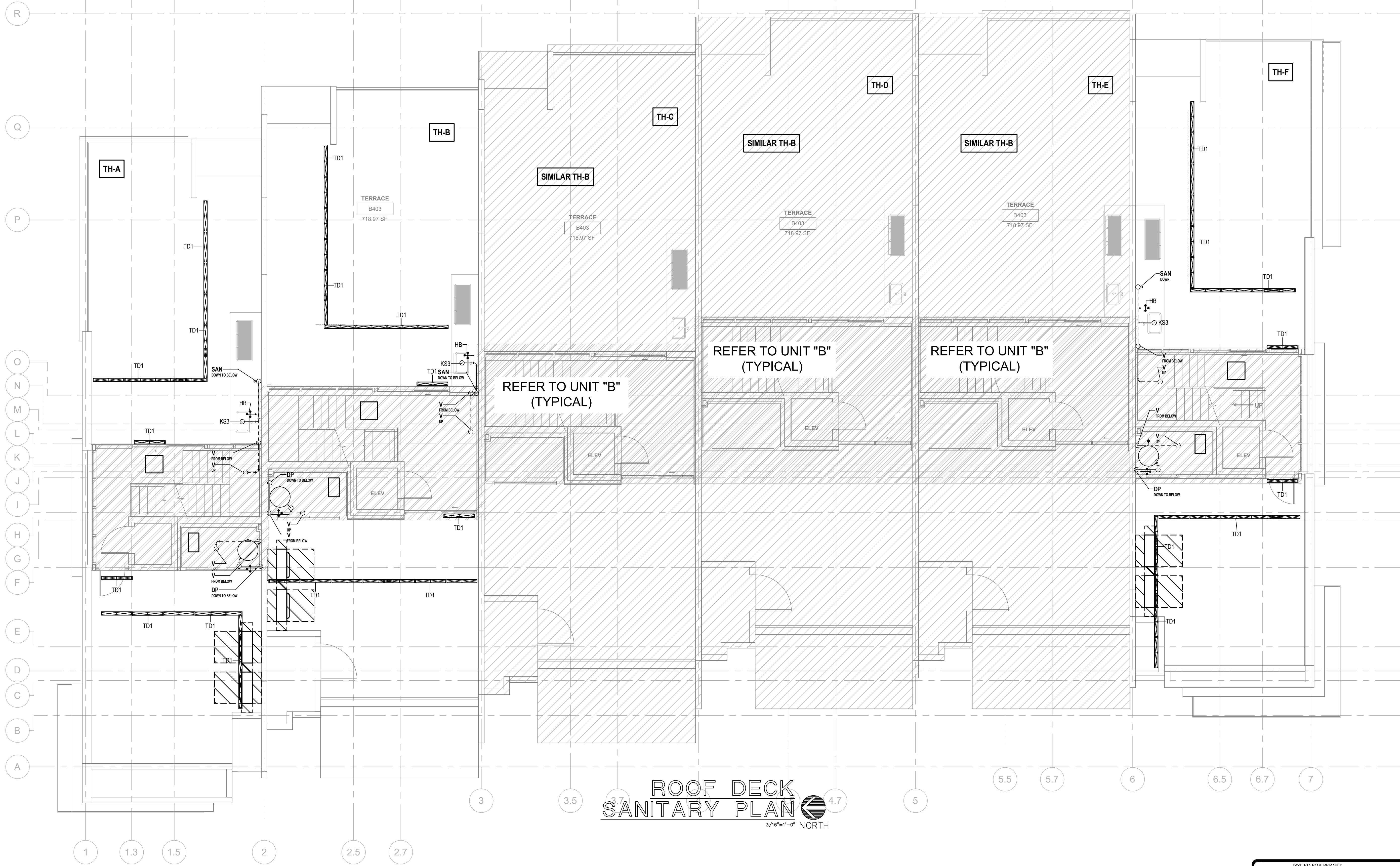
B

A



3RD FLOOR
SANITARY PLAN
3/16"=1'-0" NORTH

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ROOF DECK
SANITARY PLAN
3/16"=1'-0" NORTH

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OWNER : CARLO TREE LP
GREENPARK GROUP
5600 N Federal Highway
Fort Lauderdale - FL - 33308

PROJECT NUMBER 4/2018

SANITARY PLAN
ROOF DECK

DESIGNED BY:
Alex Penna & Rex Nichols
DATE:
JUNE 12TH 2019

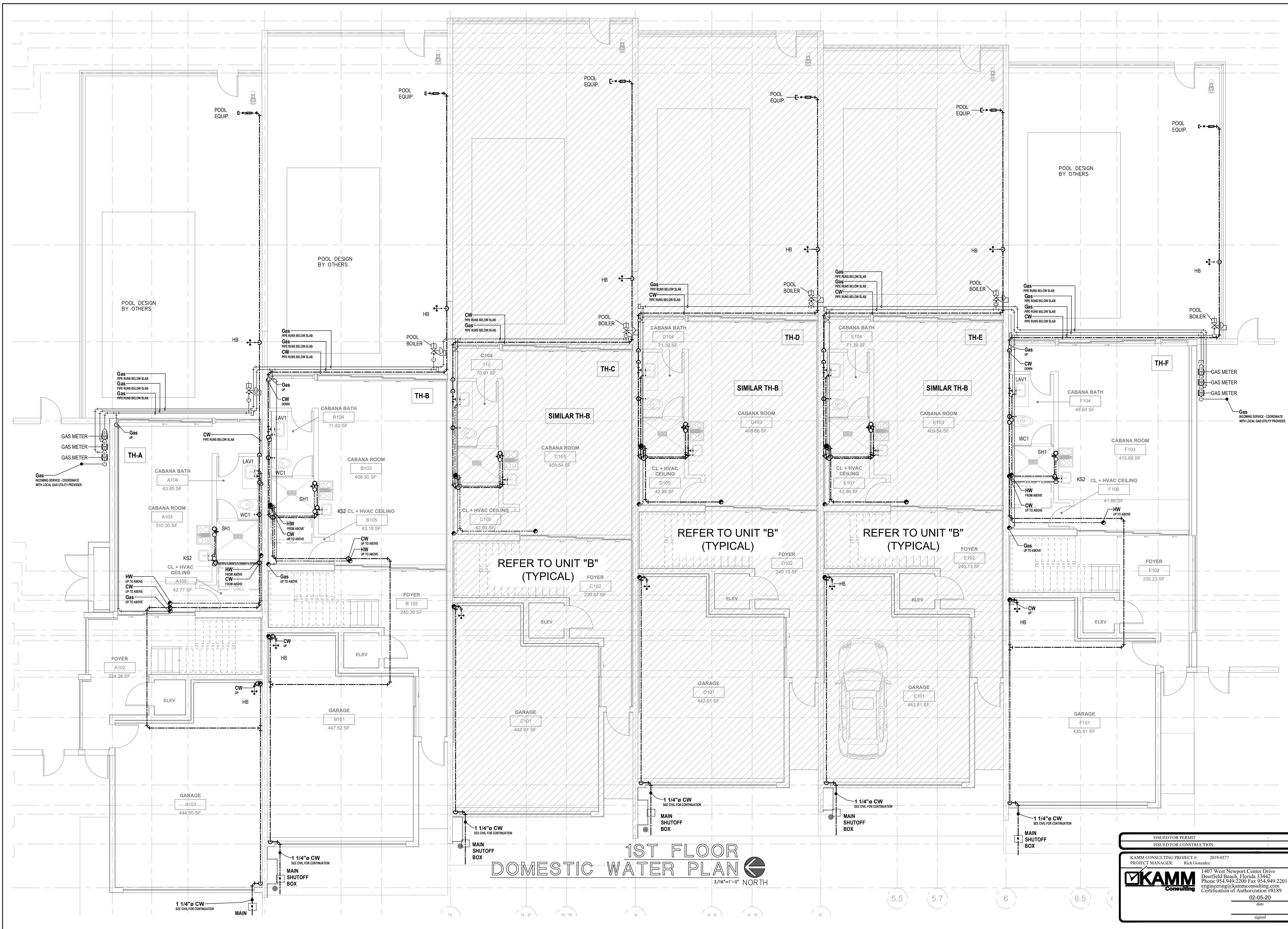
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P2.4

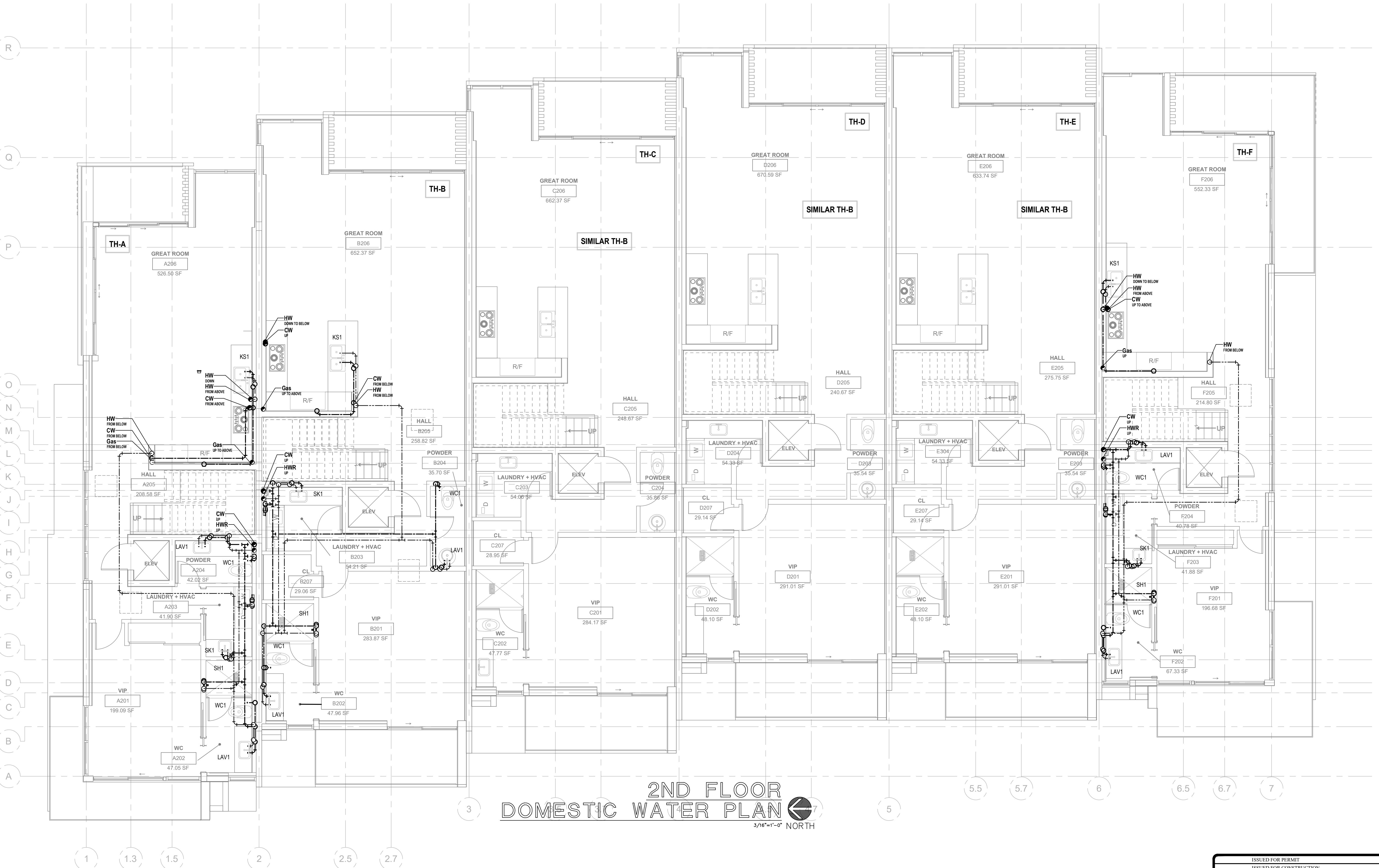
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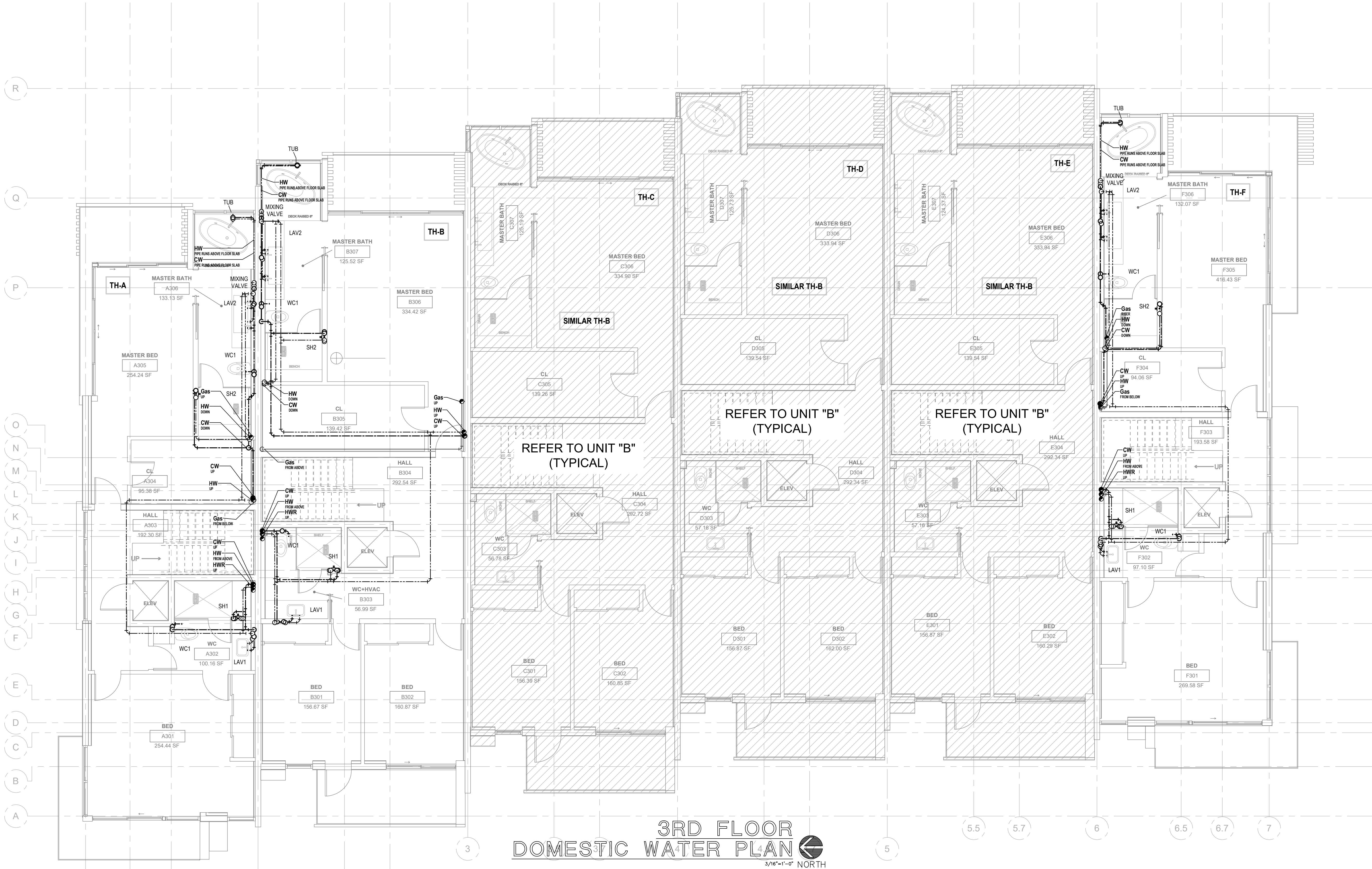


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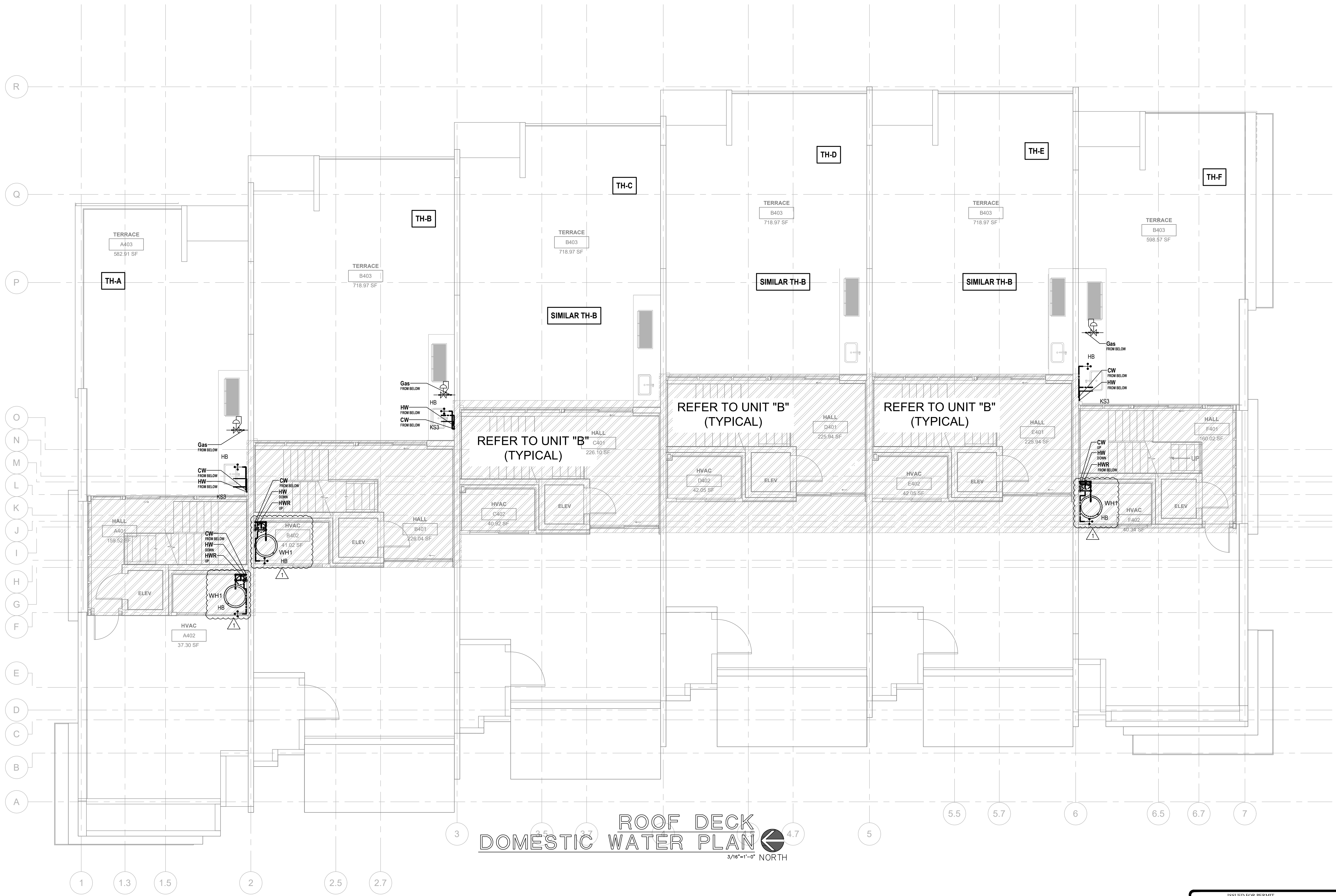
2ND FLOOR
DOMESTIC WATER PLAN
3/16"=1'-0" NORTH

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ISSUED FOR CONSTRUCTION		-	
KAMM CONSULTING PROJECT #:		2019-0577	
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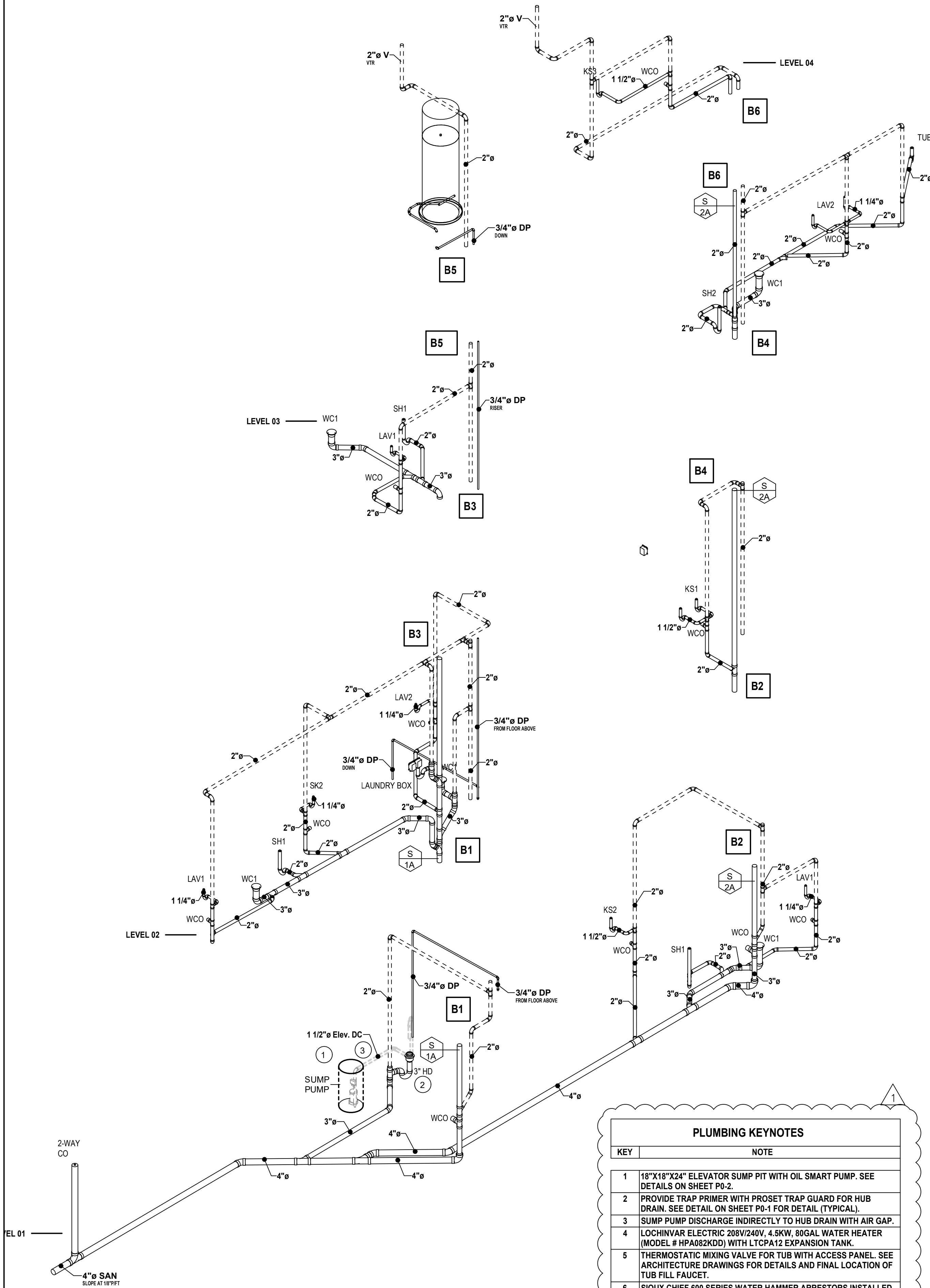
3RD FLOOR
DOMESTIC WATER PLAN
3/16"=1'-0" NORTH

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ISSUED FOR CONSTRUCTION		
KAMM CONSULTING PROJECT #: 2019-0577		
PROJECT MANAGER: Rick Gonzalez		
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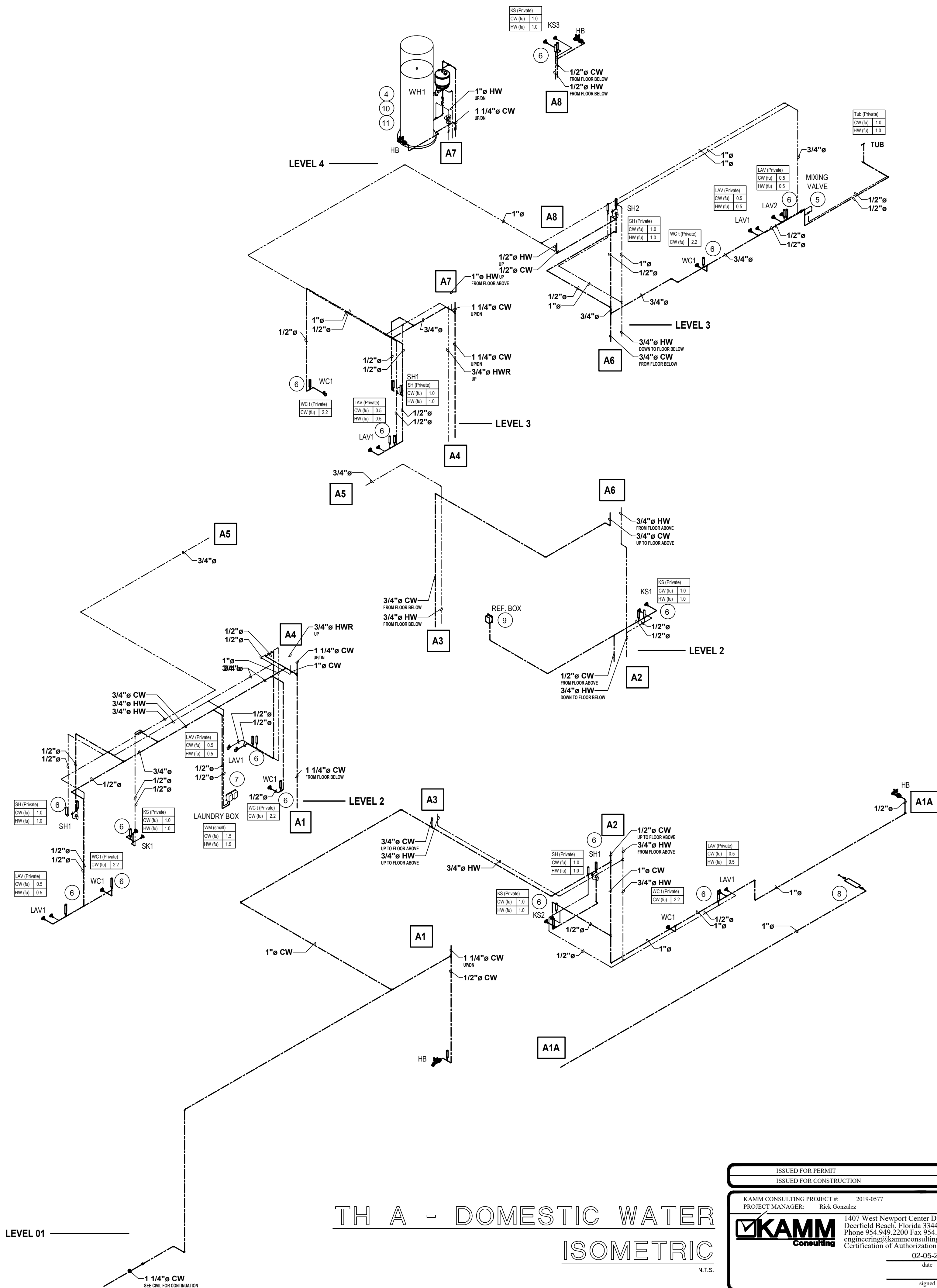
ROOF DECK
DOMESTIC WATER PLAN
3/16"=1'-0" NORTH

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ISSUED FOR CONSTRUCTION	
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date	02-05-20
signature	



TH A - SANITARY ISOMETRIC
N.T.S.

PLUMBING KEYNOTES	
KEY	NOTE
1	18"X18"X24" ELEVATOR SUMP PIT WITH OIL SMART PUMP. SEE DETAILS ON SHEET P0-2.
2	PROVIDE TRAP PRIMER WITH PROSET TRAP GUARD FOR HUB DRAIN. SEE DETAIL ON SHEET P0-1 FOR DETAIL (TYPICAL).
3	SUMP PUMP DISCHARGE INDIRECTLY TO HUB DRAIN WITH AIR GAP.
4	LOCHINVAR ELECTRIC 208V/240V, 4.5KW, 80GAL WATER HEATER (MODEL # HPA082KD) WITH LT0PA12 EXPANSION TANK.
5	THERMOSTATIC MIXING VALVE FOR TUB WITH ACCESS PANEL. SEE ARCHITECTURE DRAWINGS FOR DETAILS AND FINAL LOCATION OF TUB FILL FAUCET.
6	SIUOX CHIEF 600 SERIES WATER HAMMER ARRESTORS INSTALLED PER MANUFACTURER RECOMMENDATIONS.
7	SIUOX CHIEF LAUNDRY OUTLET BOX WITH WATER HAMMER ARRESTERS.
8	1" POOL MAKEUP WATER WITH RP2 BACKFLOW PREVENTER AND SHUT-OFF VALVE.
9	SIUOX CHIEF REFRIGERATOR OUTLET BOX WITH WATER HAMMER ARRESTERS.
10	LEAD-FREE THERMOSTATIC MIXING VALVE. ACORN CONTROLS MODEL MV17 SERIES.
11	TACO 1915e HIGH-EFFICIENCY CIRCULATOR.



TH A - DOMESTIC WATER ISOMETRIC
N.T.S.

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ISSUED FOR CONSTRUCTION		-	
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PROPOSED TOWNHOUSES ADDRESS 700 BRINY
AV, POMPANO BEACH, 33062

OWNER : CARLO TREE LP
GREENPARK GROUP
5600 N Federal Highway
Fort Lauderdale - FL - 33308

BLDG. DEPT. COMMENTS 1/17/20
PROJECT NUMBER 4/2018

PLUMBING ISOMETRICS

DESIGNED BY:
Alex Penna & Rex Nichols
DATE:
JUNE 12TH 2019

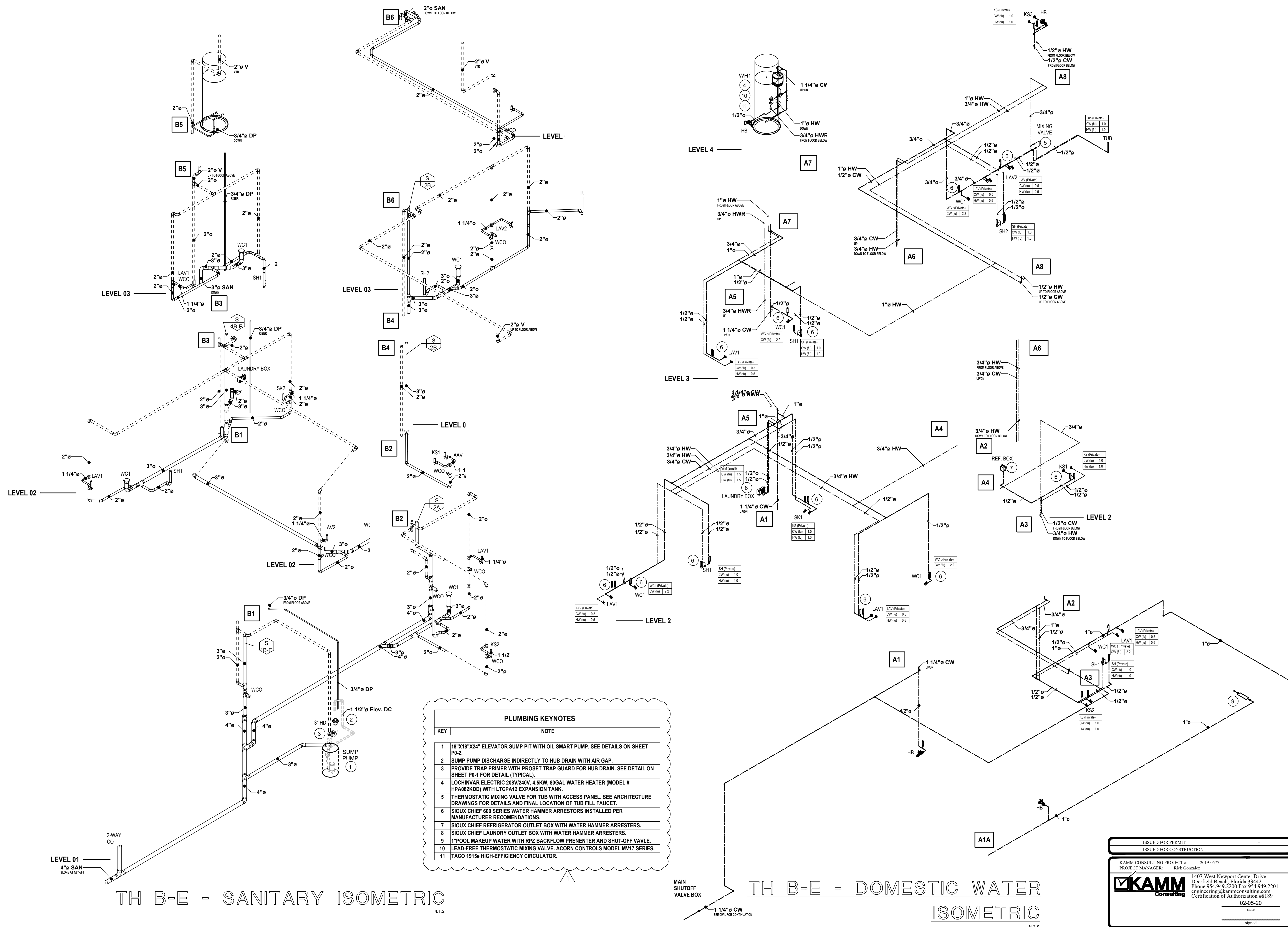
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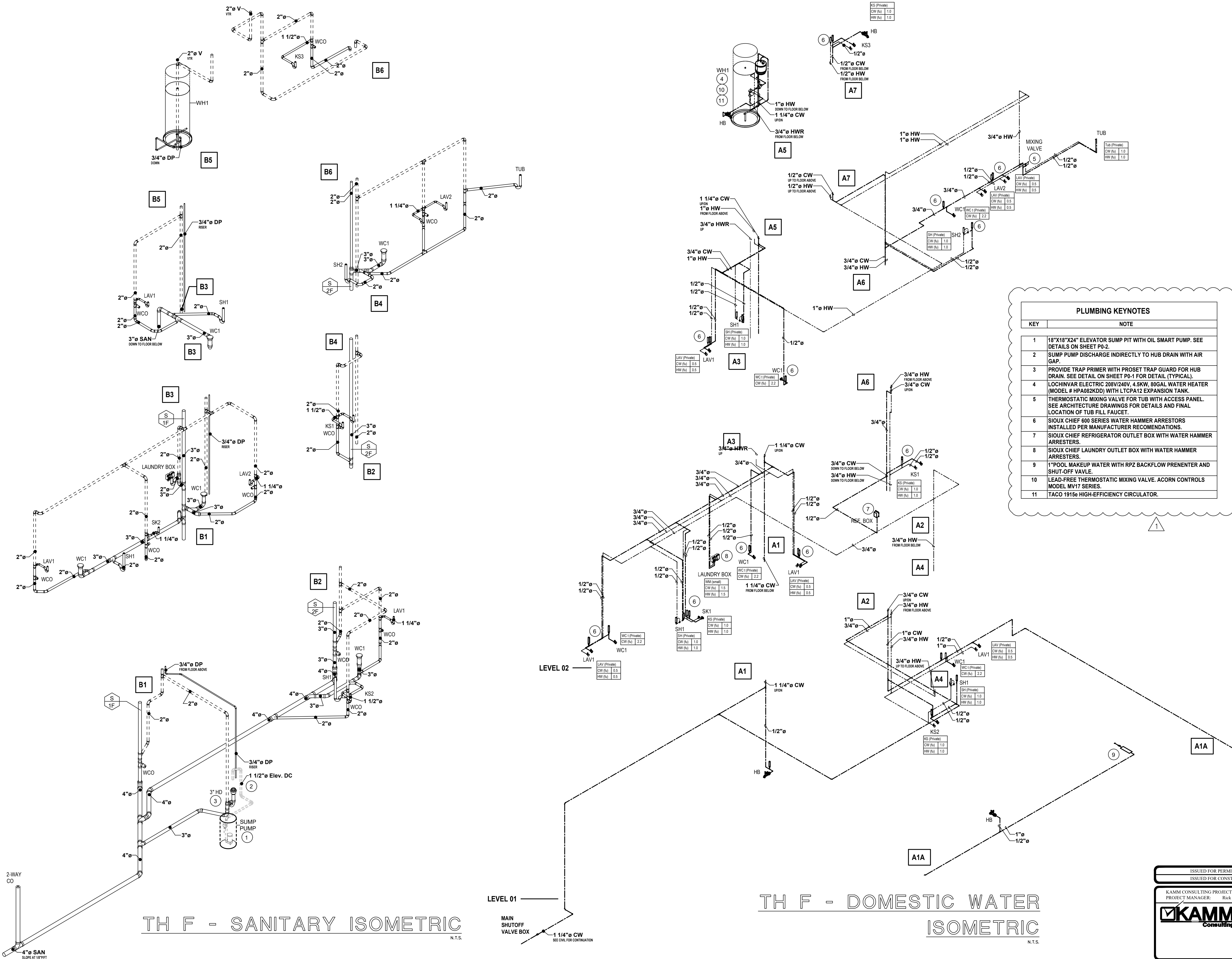
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PERMIT APPLICATION





TH F - SANITARY ISOMETRIC

TH F - DOMESTIC WATER
ISOMETRIC

LEVEL 01

MAIN SHUTOFF VALVE BOX

LEVEL 02

1 1/4" CW
SEE CIVIL FOR CONTINUATION

2-WAY CO

4" SAN
SLOPE AT 1/8" FT

N.T.S.

N.T.S.

ISSUED FOR PERMIT		-	
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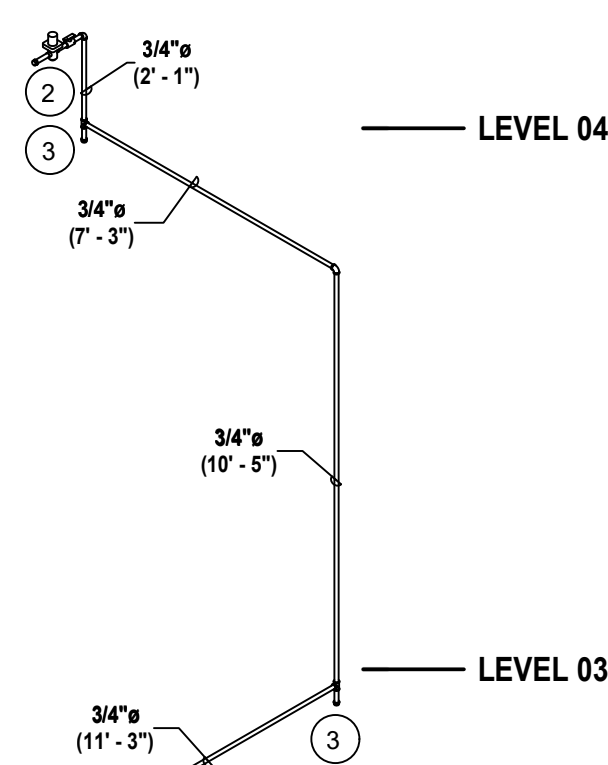
PLUMBING KEYNOTES	
KEY	NOTES
1	NEW 2 1/2" GAS SERVICE, GAS METER, MAIN SHUTOFF VALVE, AND REGULATOR. COORDINATE WITH LOCAL GAS UTILITY PROVIDER.
2	GAS SHUT OFF VALVE AND SECOND STAGE REGULATOR.
3	DIRT LEG.

GAS SERVICE
Natural Gas
Table 402.4(5)
Schedule 40 Metallic Pipe

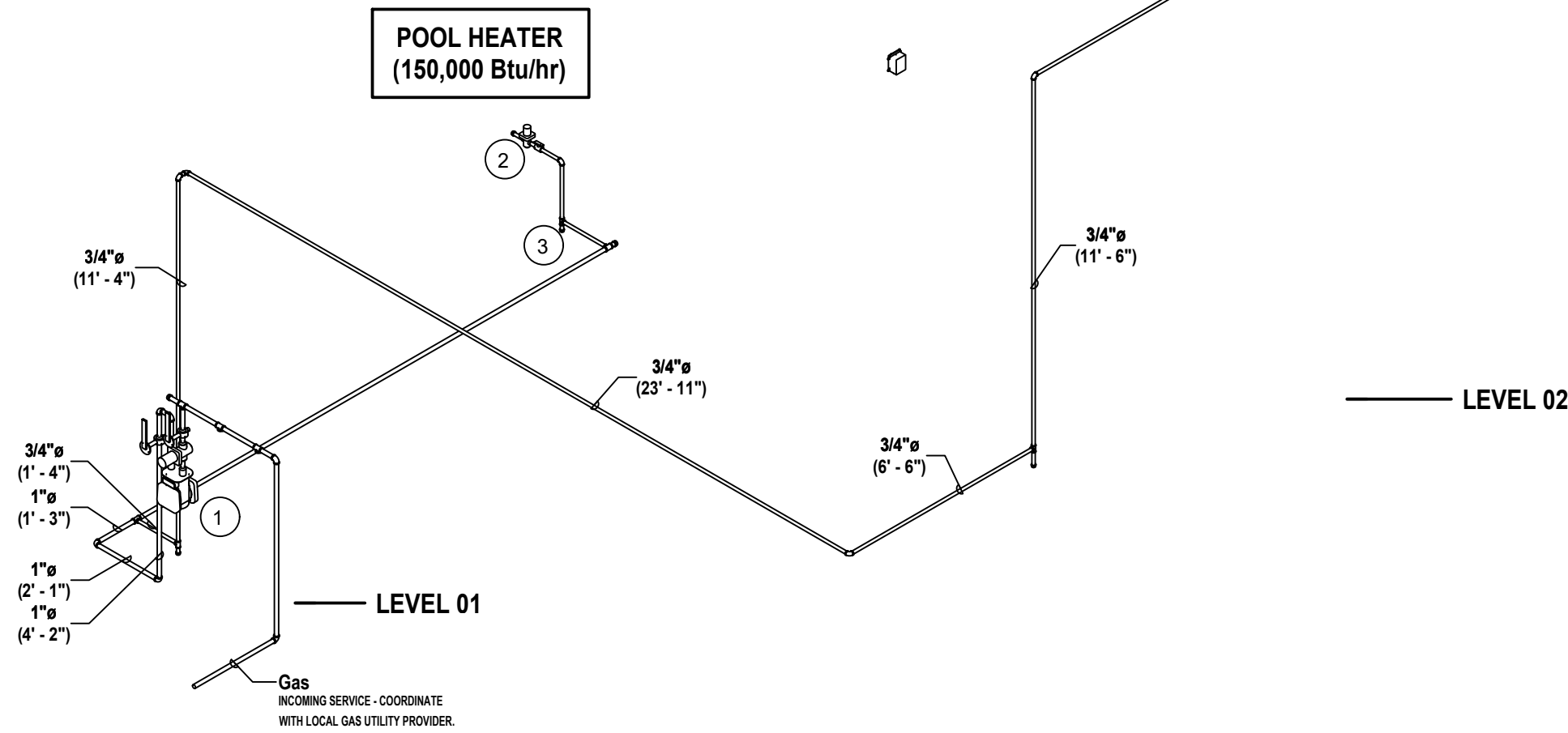
TH-A
Total estimated
250,000 Btu/hr
(500,00 Btu/hr MAX)
Longest Run 95'-0"

3/4" GAS SERVICE

OUTDOOR
KITCHEN
(100,000 Btu/hr)

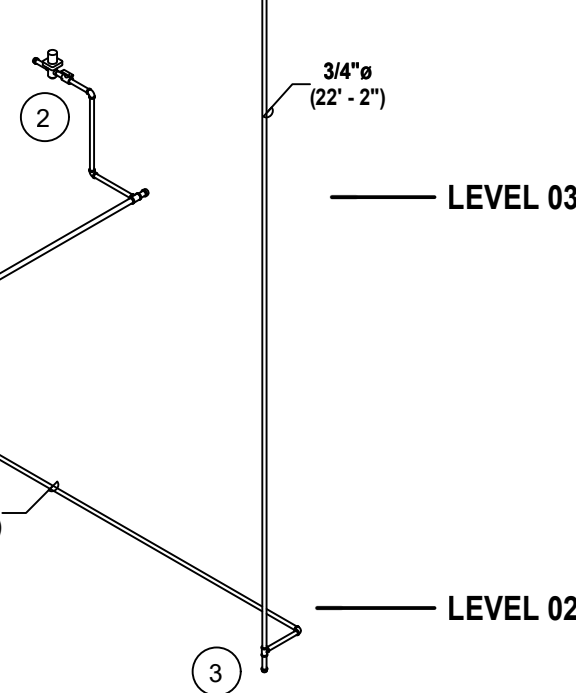


POOL HEATER
(150,000 Btu/hr)



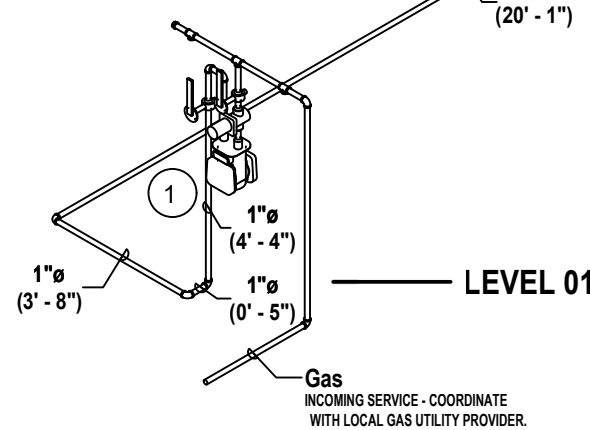
TH A - GAS ISOMETRIC

POOL HEATER
(150,000 Btu/hr)



TH B - GAS ISOMETRIC

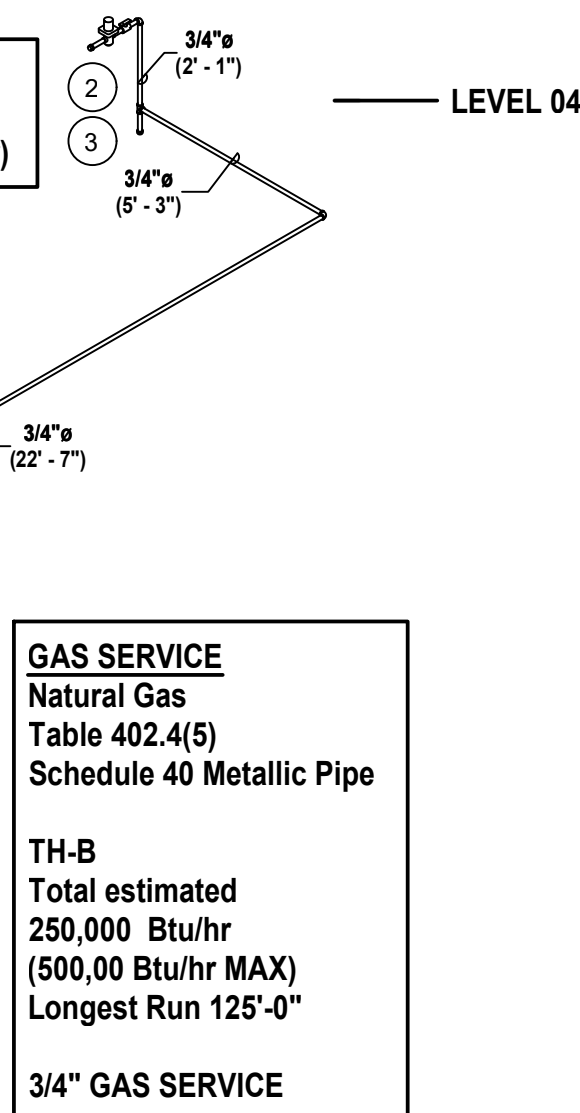
N.T.S.



LEVEL 01

Gas
INCOMING SERVICE - COORDINATE
WITH LOCAL GAS UTILITY PROVIDER.

OUTDOOR
KITCHEN
(100,000 Btu/hr)

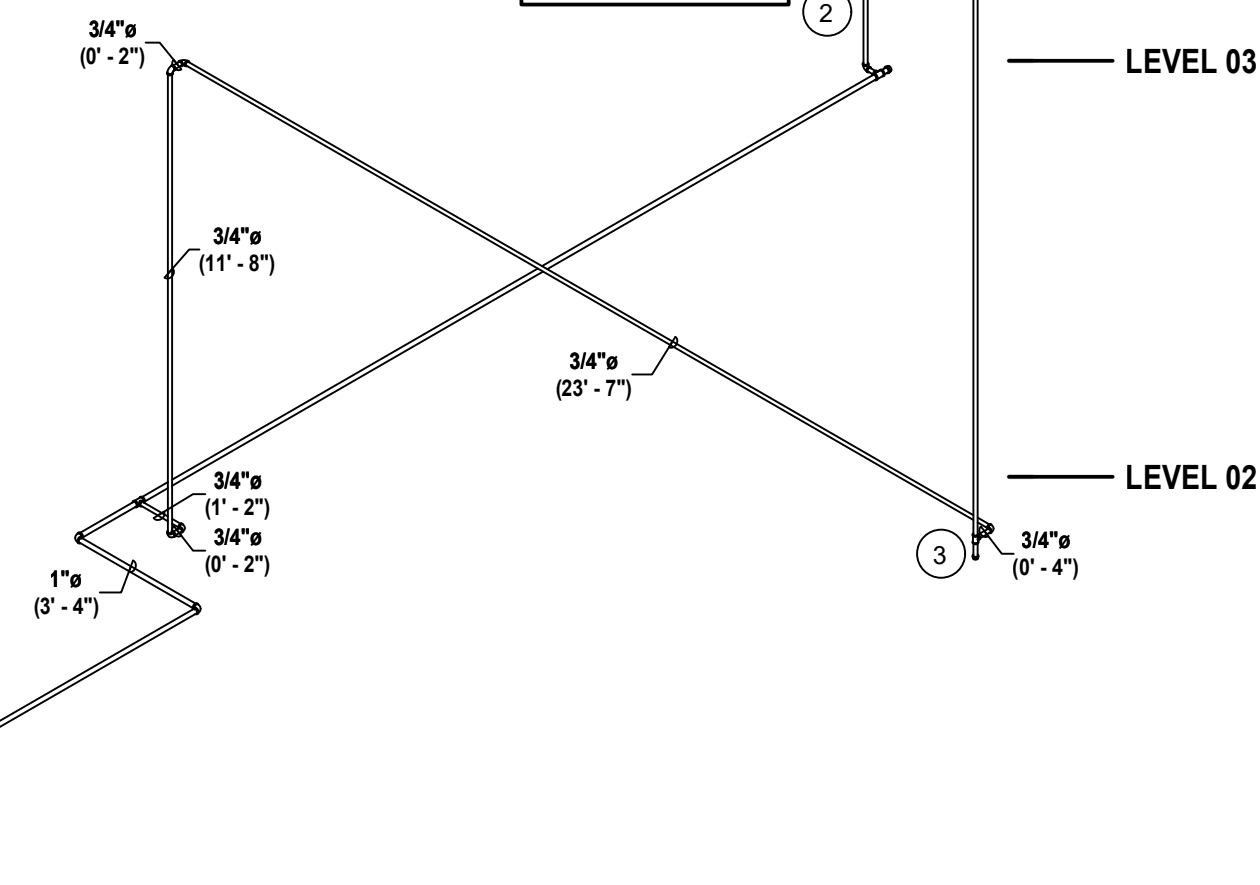


GAS SERVICE
Natural Gas
Table 402.4(5)
Schedule 40 Metallic Pipe

TH-B
Total estimated
250,000 Btu/hr
(500,00 Btu/hr MAX)
Longest Run 125'-0"

3/4" GAS SERVICE

POOL HEATER
(150,000 Btu/hr)

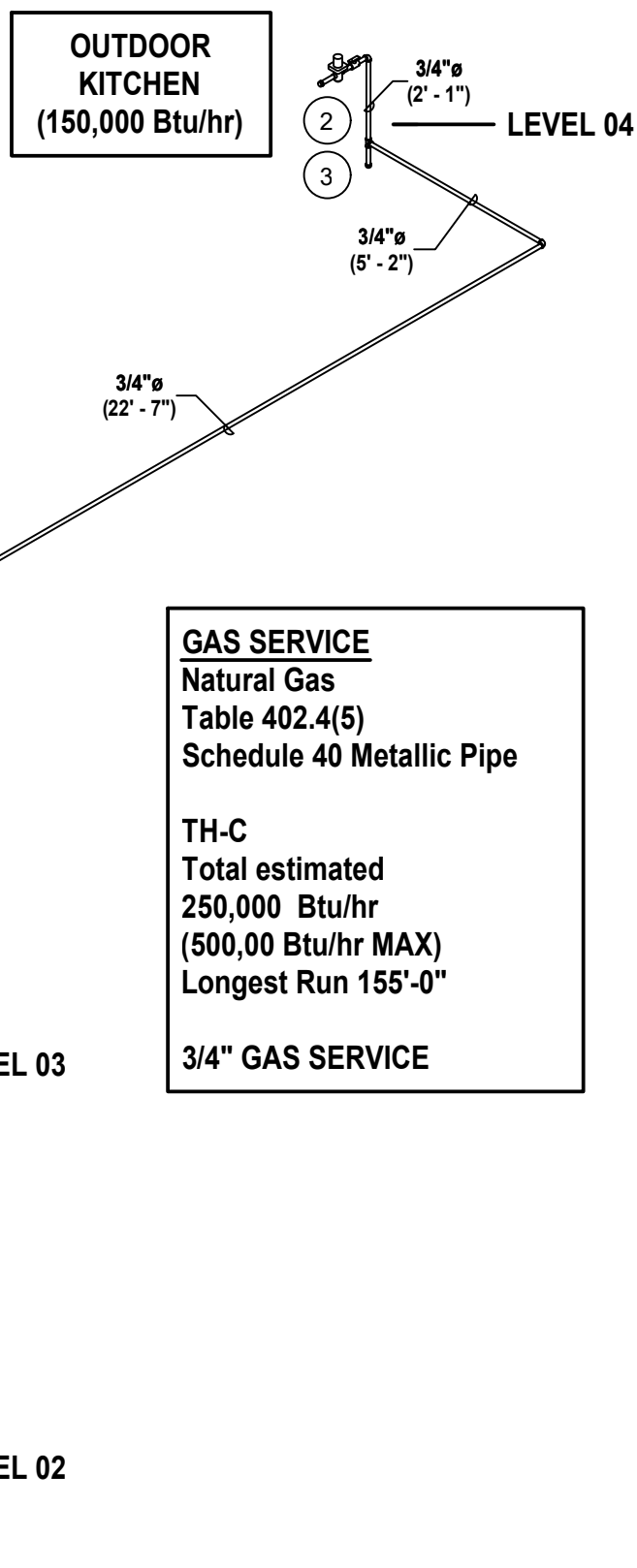


GAS SERVICE
Natural Gas
Table 402.4(5)
Schedule 40 Metallic Pipe

TH-C
Total estimated
250,000 Btu/hr
(500,00 Btu/hr MAX)
Longest Run 155'-0"

3/4" GAS SERVICE

OUTDOOR
KITCHEN
(150,000 Btu/hr)

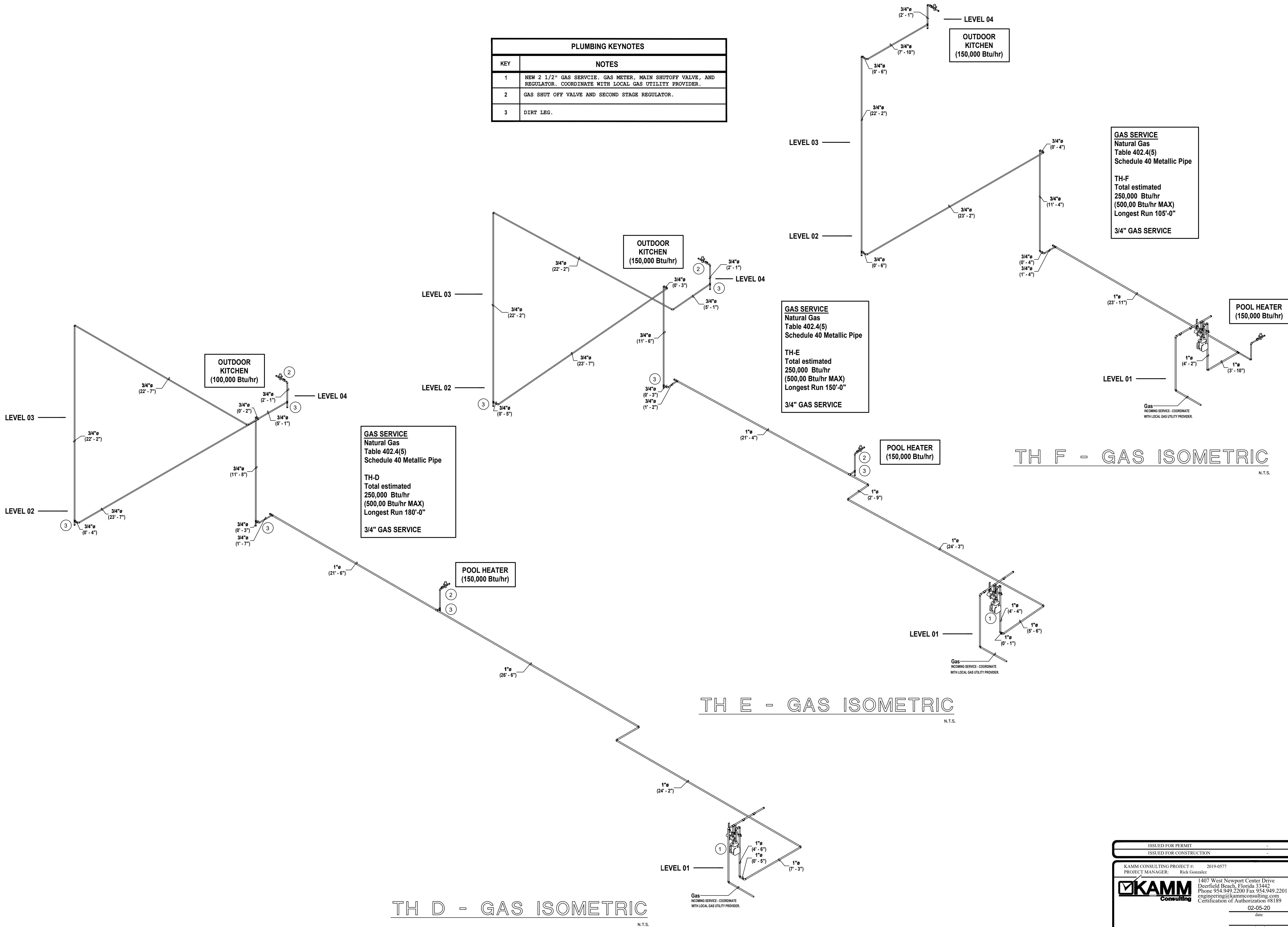


TH C - GAS ISOMETRIC

N.T.S.

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PLUMBING KEYNOTES	
KEY	NOTES
1	NEW 2 1/2" GAS SERVICE. GAS METER, MAIN SHUTOFF VALVE, AND REGULATOR. COORDINATE WITH LOCAL GAS UTILITY PROVIDER.
2	GAS SHUT OFF VALVE AND SECOND STAGE REGULATOR.
3	DIRT LEG.



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OWNER : CARLO TREE LP
GREENPARK GROUP
5600 N Federal Highway
Fort Lauderdale - FL - 33308

PROJECT NUMBER 4/2018

TH D-E-F
GAS ISOMETRICS

DESIGNED BY:
Alex Penna & Rex Nichols
DATE:
JUNE 12TH 2019

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[illegible]

TH A - STORM ISOMETRIC

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GREENPARK GROUP
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PROJECT NUMBER 4/2018

STORM ISOMETRICS

DESIGNED BY:

DATE: _____

JUNE 12TH 2019

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STORM ISOMETRICS

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LEVEL 04

LEVEL 03

LEVEL 02

LEVEL 01

PERFORATED CAP

1" Ø

2" Ø

3" Ø

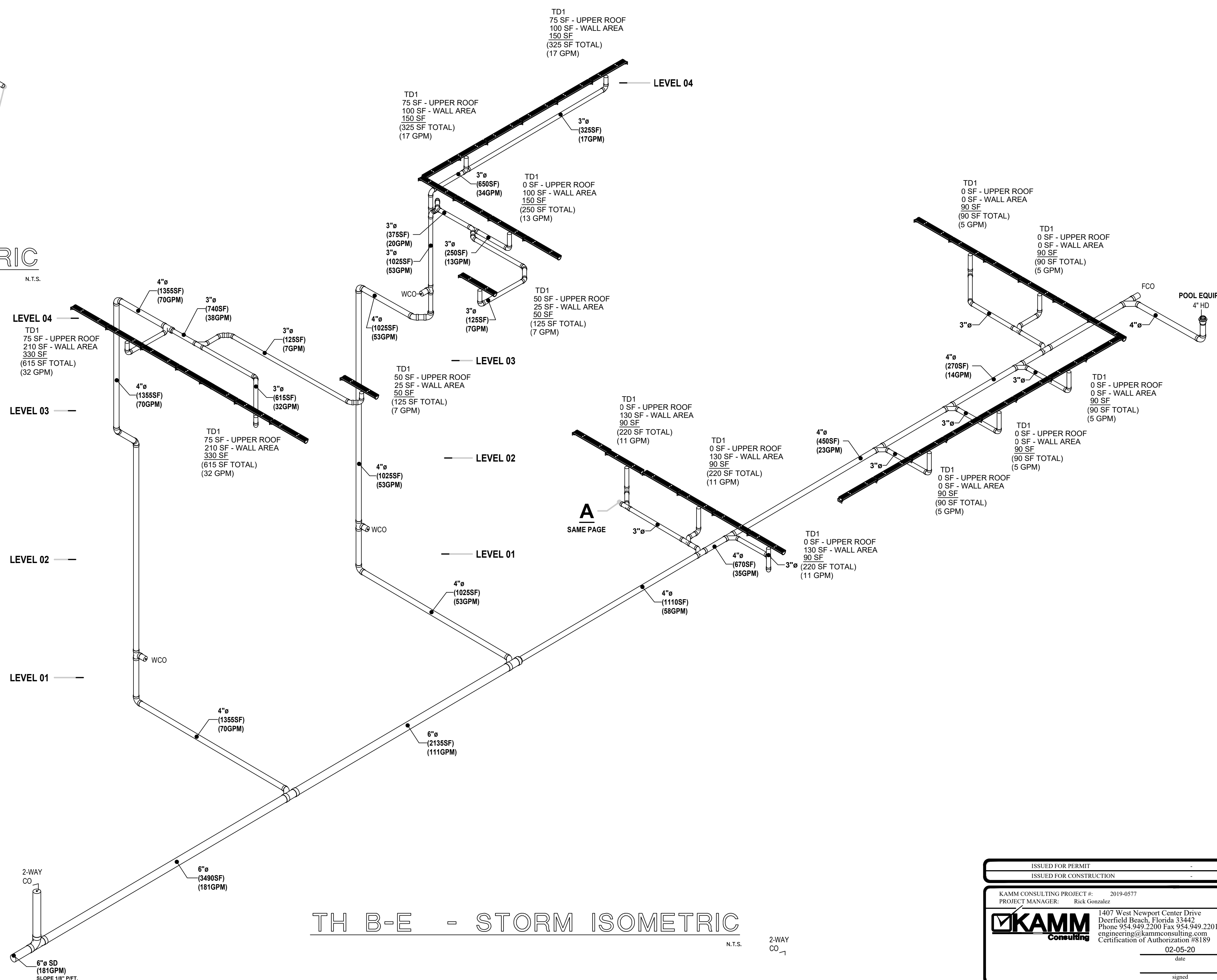
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N.T.

2-WAY
CO

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<div style="text-align: right;"> <u>02-05-20</u> date signed </div>	

LEVEL 04 —

LEVEL 03 —

LEVEL 02 —

LEVEL 01 —

PERFORATED CAP

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2"Ø

3"Ø

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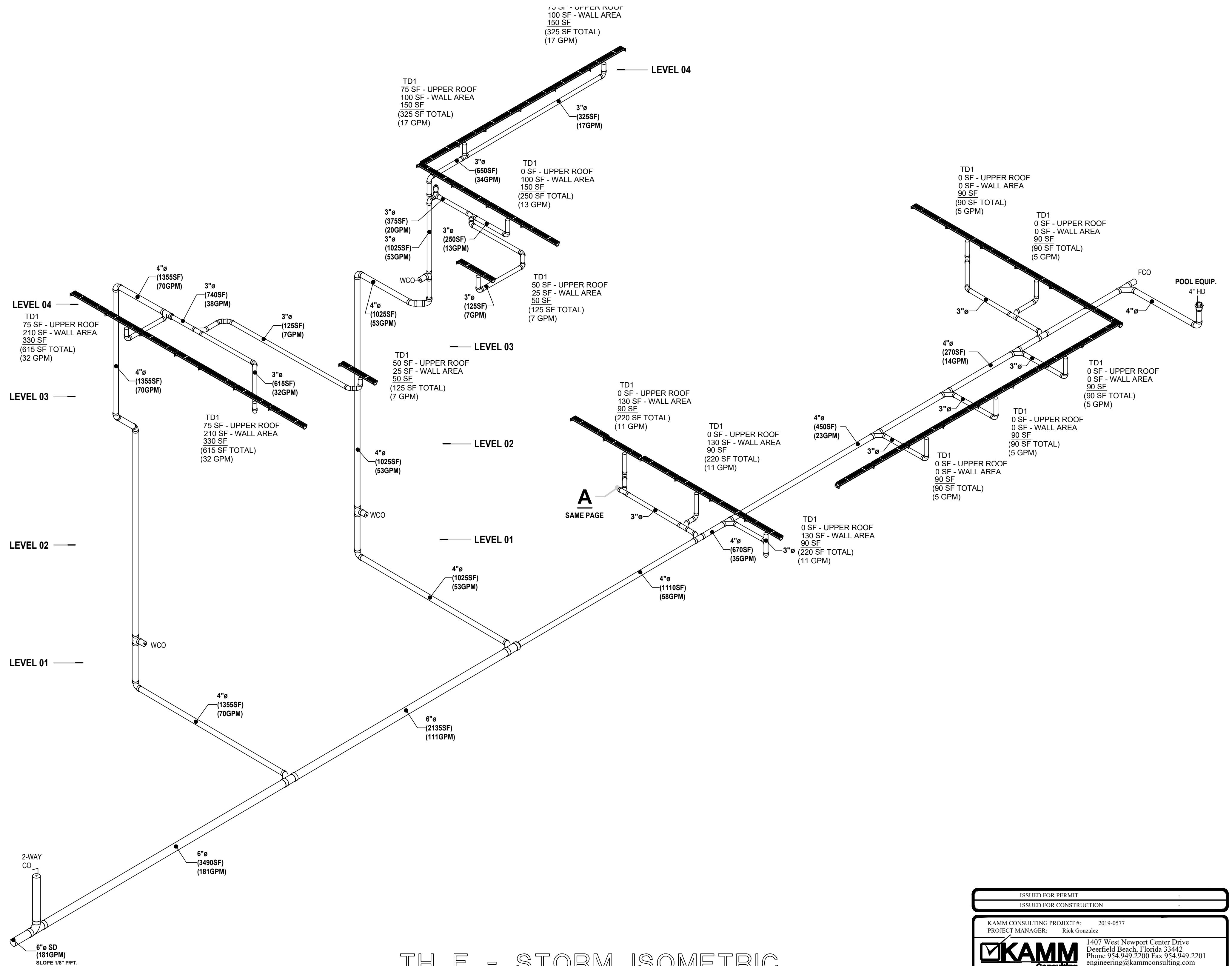
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TH F - CONDENSATE ISOMETRIC



TH F - STORM ISOMETRIC

N.T.S.

ISSUED FOR PERMIT	-
ISSUED FOR CONSTRUCTION	-

KAMM CONSULTING PROJECT #: 2019-0577

PROJECT MANAGER: Rick Gonzalez

☒

KAMM

Consulting

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 Deerfield Beach, Florida 33442
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 Certification of Authorization #8189

02-05-20

_____ date _____

_____ signed _____

SPRINKLER NOTES: CODE SECTION 61G15-32.004

1. THE FOLLOWING NOTES SHALL SERVE AS MEETING THE REQUIREMENTS SET FORTH UNDER THE FLORIDA ADMINISTRATIVE CODE SECTION 61G15-32.004 FOR FIRE PROTECTION ENGINEERING DOCUMENTS.
2. THE CONTRACTOR SHALL PROVIDE A COMPLETE SET OF SHOP DRAWINGS FOR FIRE SPRINKLER INSTALLATION FOR THE PROJECT AS INDICATED IN THE ENGINEER OF RECORD (EOR) DOCUMENTS. THE SYSTEM SHALL BE DESIGNED IN ACCORDANCE WITH THE 2017 FLORIDA BUILDING CODE, THE FLORIDA FIRE PREVENTION CODE-6th EDITION, NFPA 13 (2013 EDITION), NFPA 14, NFPA 20, NFPA 24 (2013 EDITIONS), THE OWNER'S INSURANCE COMPANY AND GUIDE LINES IF ANY, THE STATE AND/OR LOCAL FIRE MARSHAL, THE LOCAL BUILDING DEPARTMENT, AND OWNER GUIDE LINE AND STANDARDS IF EXISTING.
3. THE FIRE SPRINKLER SYSTEM SHALL BE DESIGNED AS OUTLINED BELOW:
- LIGHT HAZARD:** (DESIGNATED AS LH)
DESIGN DENSITY: 0.10 GPM/SQFT OVER THE MOST DEMANDING 1500 SQFT.
FIRE SPRINKLER SPACING: 225 SQFT. MAXIMUM.
AREAS/ROOMS: LOBBIES, OFFICES, RESTAURANT SEATING AREAS
HOSE REQUIREMENTS: 100 GPM (TOTAL COMBINED INSIDE/OUTSIDE).
- ORDINARY HAZARD GROUP 1:** (DESIGNATED AS OH1)
DESIGN DENSITY: 0.15 GPM/SQFT OVER THE MOST DEMANDING 1500 SQFT.
FIRE SPRINKLER SPACING: 130 SQFT. MAXIMUM.
AREAS/ROOMS: PARKING, RESTAURANT SERVICE AREAS, MECHANICAL ROOMS, ELEVATOR MACHINE ROOMS, ELECTRIC ROOMS, TELEPHONE ROOMS.
HOSE REQUIREMENTS: 250 GPM (TOTAL COMBINED INSIDE/OUTSIDE).
- ORDINARY HAZARD GROUP 2:** (DESIGNATED AS OH2)
DESIGN DENSITY: 0.20 GPM/SQFT OVER THE MOST DEMANDING 1500 SQFT.
FIRE SPRINKLER SPACING: 130 SQFT. MAXIMUM.
AREAS/ROOMS: RETAIL SPACES, TRASH ROOM, STORAGE SPACES.
HOSE REQUIREMENTS: 250 GPM (TOTAL COMBINED INSIDE/OUTSIDE).
- NOTE:** NO STORAGE OVER 12 FT SHALL BE ALLOWED.
4. THE CONTRACTOR SHALL USE A FLOW TEST PERFORMED BY THE LOCAL AUTHORITY TO ASCERTAIN THE WATER SERVICE REQUIRED FOR THE FIRE SPRINKLER INSTALLATION. THE HYDRAULIC CALCULATIONS SHALL ALLOW FOR A 10% PRESSURE REDUCTION AS A FACTOR OF SAFETY AND COMPLY WITH THE AHJ REQUIREMENTS AND/OR USE PRESSURE AND FLOW CRITERIA PROVIDED BY THE AUTHORITY HAVING JURISDICTION.
5. THE CONTRACTOR SHALL SUBMIT THREE (3) SETS OF SHOP DRAWINGS AND, IF APPLICABLE, HYDRAULIC CALCULATIONS BEARING THE SIGNATURE AND SEAL OF A FLORIDA REGISTERED PROFESSIONAL ENGINEER FOR REVIEW BY THE ARCHITECT/OWNER PRIOR TO COMMENCING ANY FIELD WORK. AS WELL, THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND, IF APPLICABLE, HYDRAULIC CALCULATIONS TO THE LOCAL BUILDING DEPARTMENT OR AUTHORITY HAVING JURISDICTION AND OBTAIN ALL NECESSARY APPROVALS AND PERMITS FOR THE PROJECT.
6. THE CONTRACTOR SHALL COORDINATE ALL FIRE SPRINKLER WORK WITH ALL OTHER CONSTRUCTION DISCIPLINES INCLUDING BUT NOT LIMITED TO HVAC, PLUMBING, ELECTRICAL, STRUCTURAL AND CIVIL. THE CONTRACTOR SHALL ALSO COORDINATE ANY SPECIAL TESTING REQUIRED BY THE OWNER.
7. THE SHOP DRAWINGS, INCLUDING HYDRAULIC CALCULATIONS, SHALL SHOW THE SIZES, TYPES, AND DIMENSIONAL LOCATIONS FOR ALL FIRE SPRINKLERS, MAINS, BRANCHES, AND EXISTING PIPING FOR THE WATER SUPPLY TO THE CONNECTION OF THE SYSTEM.
8. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION AND FINAL LOCATION OF THE FIRE SPRINKLER HEADS AND/OR PIPING FOR FINAL FIRE PROTECTION LAYOUT DOCUMENTS PREPARATION AND INSTALLATION.
9. THE ENGINEER OF RECORD (EOR) DOCUMENTS ARE NOT AND SHALL NOT BE CONSIDERED SHOP DRAWINGS NOR INSTALLATION DRAWINGS.
10. ALL INFORMATION CONTAINED IN THESE DRAWINGS IS ACCORDING TO THE ORIGINAL CONSTRUCTION DOCUMENTS PROVIDED BY THE OWNER AND LIMITED FIELD OBSERVATIONS. THE ENGINEER OR THE ARCHITECT MAKES NO REPRESENTATION FOR THE ACCURACY OF SUCH INFORMATION. THE CONTRACTOR SHALL VISIT THE BUILDING AND FIELD VERIFY ALL EXISTING CONDITIONS MATERIALS, EQUIPMENT, DIMENSIONS, ETC. ONCE DEMOLITION TAKES PLACE PRIOR TO SUBMITTING A BID AND COMMERCING ANY WORK.
11. THE CONTRACTOR SHALL REMOVE EXISTING FIRE SPRINKLERS AND/OR FIRE SPRINKLER PIPING NOT REQUIRED FOR THE PERMANENT INSTALLATION AT THE END OF THE INSTALLATION PHASE.
12. ALL WORK BY THE CONTRACTOR SHALL BE DONE IN STRICT COORDINATION AND AS APPROVED BY THE OWNER. ALL INTERRUPTIONS IN THE FUNCTIONING OF THE FIRE SPRINKLER SYSTEM SHALL BE DONE DURING OFF-PEAK (UNOCCUPIED TIMES) OR STRICTLY AS APPROVED BY THE OWNER. NOTIFICATION OF A SHUTDOWN TO THE FIRE SPRINKLER SYSTEM, INCLUDING THE DURATION TIME, SHALL BE MADE TO THE OWNER A MINIMUM OF SEVEN (7) DAYS IN ADVANCE OF SUCH WORK AND COORDINATED ALSO WITH AHJ, WHERE IN THE OPINION OF THE AHJ IF PARTIAL OR TOTAL DEMOLITION OF THE EXISTING FIRE SPRINKLER SYSTEM TAKES PLACE IN SITE AND SUCH DEMOLITION IS OF A HAZARDOUS NATURE, QUALIFIED PERSONNEL SHALL SERVE AS ON-SITE FIRE WATCH.
13. THE CONTRACTOR SHALL BEAR ALL COSTS OF:
A. PREPARING SHOP DRAWINGS AND DOCUMENTS
B. SECURING PERMITS AND APPROVALS
C. LABOR
D. MATERIALS
E. CLEAN UP/WASTE REMOVAL
F. FIRE WATCH IN COORDINATION OF AHJ IF REQUIRED.
14. PIPING INSTALLATION
WHEN THE INSTALLATION OF A NEW FIRE SPRINKLER SYSTEM TAKES PLACE, THE CONTRACTOR SHALL PROPOSE THE PIPE SCHEDULE MATERIALS, FITTINGS, VALVES, HANGERS, ETC. ACCORDING TO THE GUIDE LINES AND STANDARDS OF THE OWNER IF ANY, WHICH SHALL BE ALSO RESPONSIBILITY OF THE CONTRACTOR VERIFY PREVIOUSLY TO BIDDING, SUBMITTING, PERMITTING, COMMENCING AND INSTALLING ANY NEW WORK; SUCH STANDARDS SHALL BE ALSO AS PER NFPA 13 AND AHJ. THE FOLLOWING MATERIALS ARE SPECIFICATIONS AS PER NFPA 13:
A. MAKE CHANGES IN SIZE OF PIPE WITH REDUCING FITTINGS; BUSHINGS ARE NOT PERMITTED.
B. CAP OPENINGS IN PIPING DURING CONSTRUCTION.
C. ESCUTCHEONS: FIT EXPOSED PIPES PASSING THROUGH FLOORS, WALL OR CEILING WITH ESCUTCHEONS. MANUFACTURE SPECIAL SIZES OF ESCUTCHEONS FROM STEEL AND PRIME COAT SAME. CUT IN ROUND, RECTANGULAR OR SQUARE SPACE TO PROVIDE A CLEAN APPEARANCE ACCEPTABLE TO THE GAP.
D. PENETRATIONS THROUGH FIRE RATED WALLS SHOULD BE FILLED WITH A UL LISTED FIRE SEALANT IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS AND TO PROVIDE AT LEAST THE MINIMUM FIRE RATING OF THE WALL.
E. CPVC PIPING & FITTINGS SHALL BE MANUFACTURED OF IDENTICAL RESIN COMPOUNDS AND SHALL BE JOINED WITH SOLVENT PRIMERS/CEMENTS SPECIFICALLY COMPATIBLE WITH THE RESIN COMPOUND THAT IS UTILIZED FOR SAME. THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ALL PLASTIC AND METALLIC SYSTEM COMPONENTS AND WATER ADDITIVES ARE COMPATIBLE WITH THE MANUFACTURER'S R/OMTS. AFTER INSTALLATION, SYSTEM PIPING & FITTINGS SHALL BE FLUSHED WITH POTABLE WATER AS PER THE MANUFACTURER'S R/OMTS, PRIOR TO BEING PUT INTO SERVICE. CPVC PIPING SHALL NOT BE INSTALLED EXPOSED HANGING FROM ANY POSSIBLE OPEN CEILING AREAS.
F. ABOVEGROUND PIPE MATERIALS:
1. SCHEDULE 40, FOR PIPE SIZES 1" THROUGH 2".
2. SCHEDULE 10 FOR PIPE SIZES 2½" AND LARGER.
3. ALL EXPOSED PIPE AND FITTINGS TO OUTSIDE AIR, SALT, CHEMICALS, MOISTURE, AND/OR OTHER CORROSIVE VAPORS SUFFICIENT TO CAUSE CORROSION OF SUCH MATERIALS SHALL BE BLACK STEEL PIPE SCH. 40, CARBON STEEL GROOVED FITTINGS, HANG UP WITH CORROSION RESISTANT STEEL ROD AND HANGERS AND SHALL BE ALL RED PAINTED PER NFPA 13-2013-8.16.4.2.
- G. UNDERGROUND PIPE MATERIALS:
1. DUCTILE IRON MEETING AWWA C104 STANDARDS
2. PLASTIC MEETING AWWA C900 STANDARDS, DR 14.

TYPICAL UNITS PER

NFPA 13R-2013:

TYPICAL UNITS SHALL BE DESIGNED AS PER NFPA 13R:2013:6.6 LOCATION OF SPRINKLERS, STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS IN RESIDENTIAL OCCUPANCIES UNDER THE FOLLOWING PARAMETERS:

6.6 LOCATION OF SPRINKLERS
6.6.1 SPRINKLERS SHALL BE INSTALLED IN ALL AREAS EXCEPT WHERE OMISSION IS PERMITTED BY 6.6.2 THROUGH 6.6.7.

6.6.2* SPRINKLERS SHALL NOT BE REQUIRED IN BATHROOMS WHERE THE BATHROOM AREA DOES NOT EXCEED 55 f+2 (5.1 m²).

6.6.3 EXCEPT WHERE SPECIFIED IN 6.6.4, SPRINKLERS SHALL NOT BE REQUIRED IN CLOTHES CLOSETS, LINEN CLOSETS, AND PANTRIES WITHIN DWELLING UNITS THAT MEET ALL OF THE FOLLOWING CONDITIONS:

(1) THE AREA OF SPACE DOES NOT EXCEED 24 f+2 (2.2 m²).

(2) THE LEAST DIMENSION DOES NOT EXCEED 3 f+0 (0.91 m).

(3) THE WALLS AND CEILINGS ARE SURFACED WITH NONCOMBUSTIBLE OR LIMITED-COMBUSTIBLE MATERIALS AS DEFINED BY NFPA 220, STANDARDS ON TYPES OF BUILDING CONSTRUCTION.

6.6.4* SPRINKLERS SHALL BE INSTALLED IN ANY CLOSET USED FOR HEATING AND AIR-CONDITIONING EQUIPMENT, WASHERS, DRYERS, OR WATER HEATERS EXCEPT AS PERMITTED BY 6.6.7.

6.6.5* EXCEPT AS PROVIDED FOR IN 6.6.5.1, SPRINKLERS SHALL NOT BE REQUIRED IN ANY PORCHES, BALCONIES, CORRIDORS, CARPORTS, PORTE COCHERES, AND STAIRS THAT ARE OPEN AND ATTACHED.

6.6.5.1 WHERE A ROOF OR DECK IS PROVIDED ABOVE, SPRINKLERS SHALL NOT BE INSTALLED TO PROTECT ATTACHED EXTERIOR BALCONIES, ATTACHED EXTERIOR DECKS, AND GROUND FLOOR PATIOS SERVING DWELLING UNITS IN BUILDINGS OF CONSTRUCTION TYPE V.

6.6.5.1.1 WHERE SIDEWALL SPRINKLERS ARE INSTALLED BENEATH DECKS OR BALCONIES CONSTRUCTED WITH OPEN WOOD JOISTS, SPRINKLERS SHALL BE PERMITTED TO BE INSTALLED WITH DEFLECTORS NO LESS THAN 1 INCH (25 mm) OR MORE THAN 6 INCH (152 mm) BELOW THE STRUCTURAL MEMBERS, PROVIDED THAT THE DEFLECTOR IS NO MORE THAN 14 INCH (356 mm) BELOW UNDERSIDE SURFACE OF THE DECK.

6.6.6* SPRINKLERS SHALL NOT BE REQUIRED IN ATTICS, PENTHOUSE EQUIPMENT ROOMS, ELEVATOR MACHINE ROOMS, CONCEALED SPACES DEDICATED EXCLUSIVELY TO AND CONTAINING ONLY DWELLING UNIT VENTILATION EQUIPMENT, CRAWL SPACES, FLOOR/CEILING SPACES, NONCOMBUSTIBLE ELEVATOR SHAFTS WHERE THE ELEVATOR CARS COMPLY WITH ANSI A17.1, SAFETY CODE FOR ELEVATORS AND ESCALATORS, AND OTHER CONCEALED SPACES THAT ARE NOT USED OR INTENDED FOR LIVING PURPOSES OR STORAGE AND DO NOT CONTAIN FUEL-FIRE EQUIPMENT.

6.6.6.1 WHEN FUEL-FIRE EQUIPMENT IS PRESENT, AT LEAST ONE-QUICK RESPONSE INTERMEDIATE TEMPERATURE SPRINKLER SHALL BE INSTALLED ABOVE THE EQUIPMENT.

6.6.7 SPRINKLERS SHALL NOT BE REQUIRED IN CLOSETS (REGARDLESS OF SIZE) ON EXTERIOR BALCONIES AND EXTERIOR BREEZEWAYS/CORRIDORS, REGARDLESS OF SIZE, AS LONG AS THE CLOSET DOES NOT HAVE DOORS OR UNPROTECTED PENETRATIONS DIRECTLY INTO THE DWELLING UNIT.

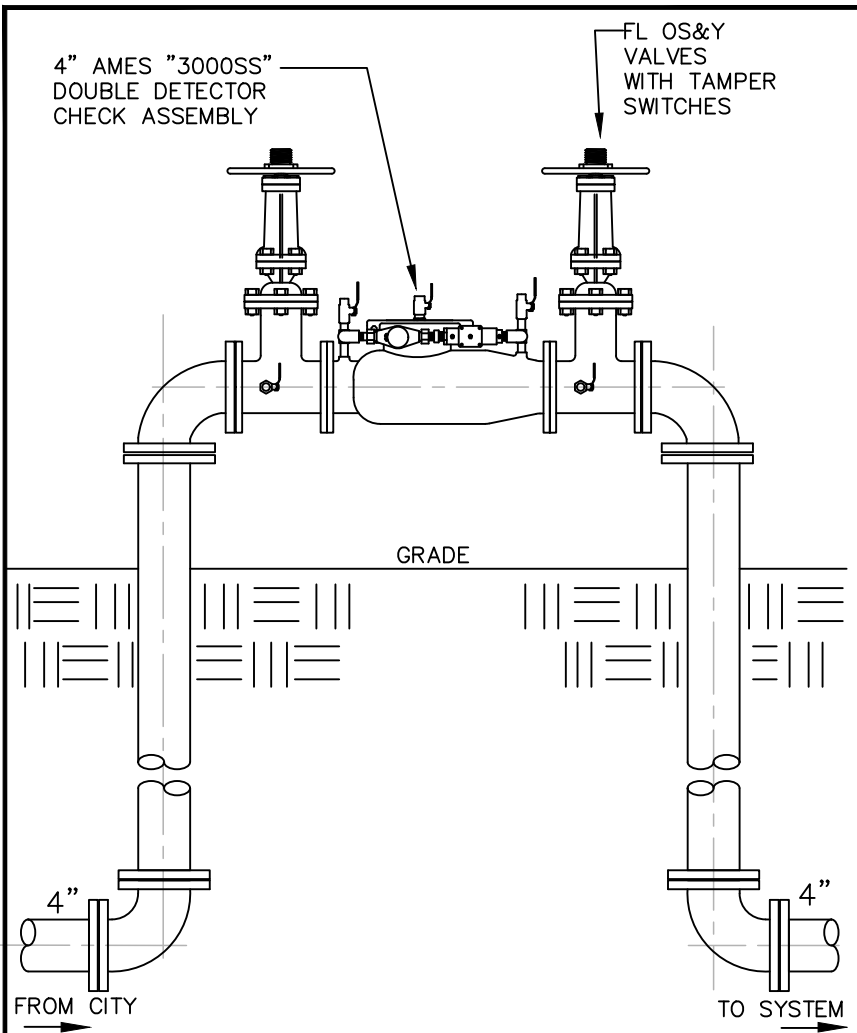
6.6.8 ALL SITUATIONS REGARDING SPRINKLER LOCATION AND POSITION THAT ARE NOT DIRECTLY DISCUSSED IN NFPA 13R SHALL BE IN ACCORDANCE WITH NFPA 13.

FIRE SPRINKLER SCHEDULE--(REFER TO NOTES BELOW)

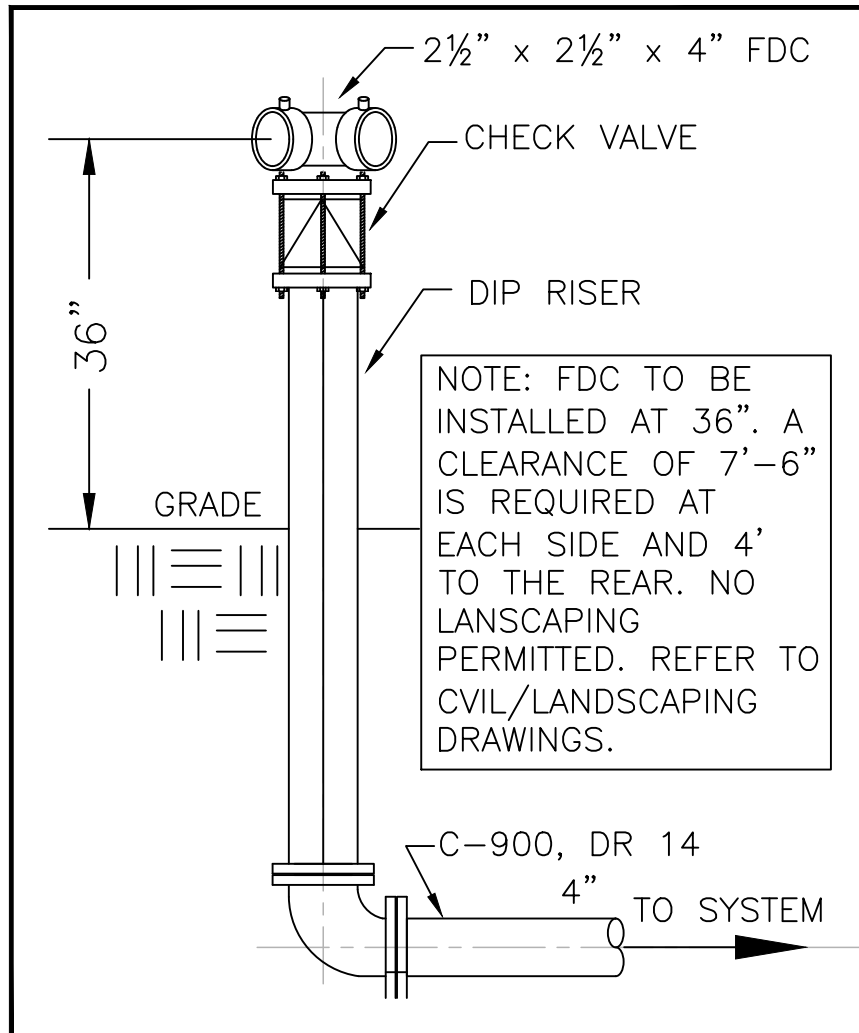
SYM	QNT	TYPE/DESCRIPTION	TEMP(°F) RATING	K FACTOR	RESPONSE	NPT	MFG.	MODEL	SIN	ESCUTCHEON FINISH	CONN.	NOTES/INTENDED USE
☉	-	CONCEALED PENDENT	175	5.6	QR	1/2"	VIKING	MIRAGE	VK462	BRASS	Thread	GARAGE & TRASH ROOM AREAS
●	-	RESIDENTIAL CONCEALED PENDENT	155	5.8	FAST	1/2"	VIKING	FREEDOM	VK498	BRASS	Thread	DROP CEILING AREAS
◐	-	RESIDENTIAL PENDENT	155	7.4	FAST	3/4"	VIKING	FREEDOM	VK458	BRASS	Thread	OPEN CEILING AREAS
◑	-	RESIDENTIAL CONCEALED SIDEWALL	165	5.8	FAST	1/2"	VIKING	FREEDOM	VK490	BRASS	Thread	OPEN CEILING AREAS

NOTES

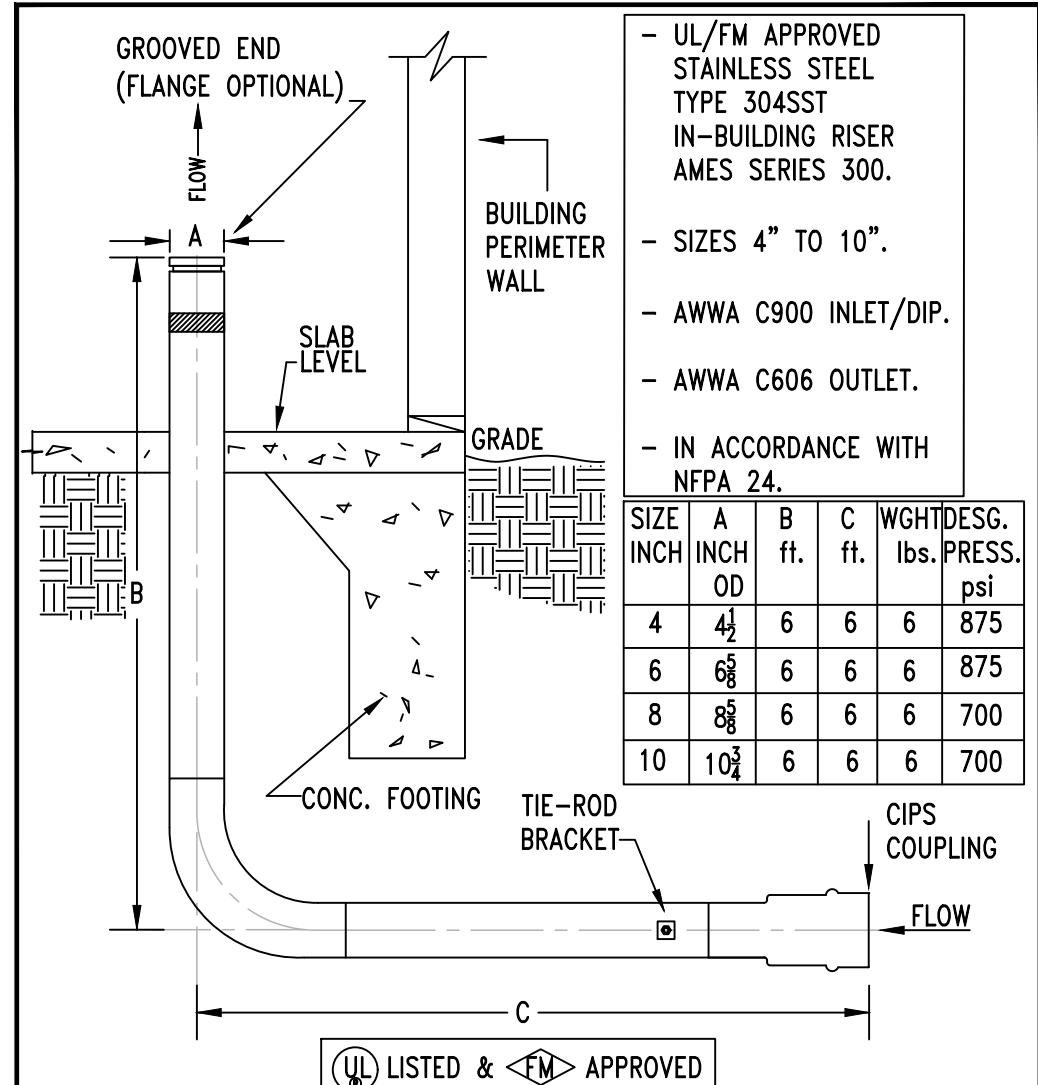
- ALL FIRE SPRINKLERS SHALL HAVE A UL APPROVED CORROSION RESISTANT COATING WHERE EXPOSED TO OUTSIDE AIR, CHEMICALS, MOISTURE, OR OTHER CORROSIVE VAPORS SUFFICIENT TO CAUSE CORROSION OF SUCH DEVICES.
- THE CONTRACTOR SHALL RECEIVE THE ARCHITECTS APPROVAL FOR ALL FIRE SPRINKLER/ESCUTCHEON FINISHES PRIOR TO ORDERING AND INSTALL. DESPITE WHAT IS SPECIFIED IN THIS SCHEDULE.
- FIRE SPRINKLER IN CEILING TILES TO BE INSTALLED IN THE CENTER OF TILE.



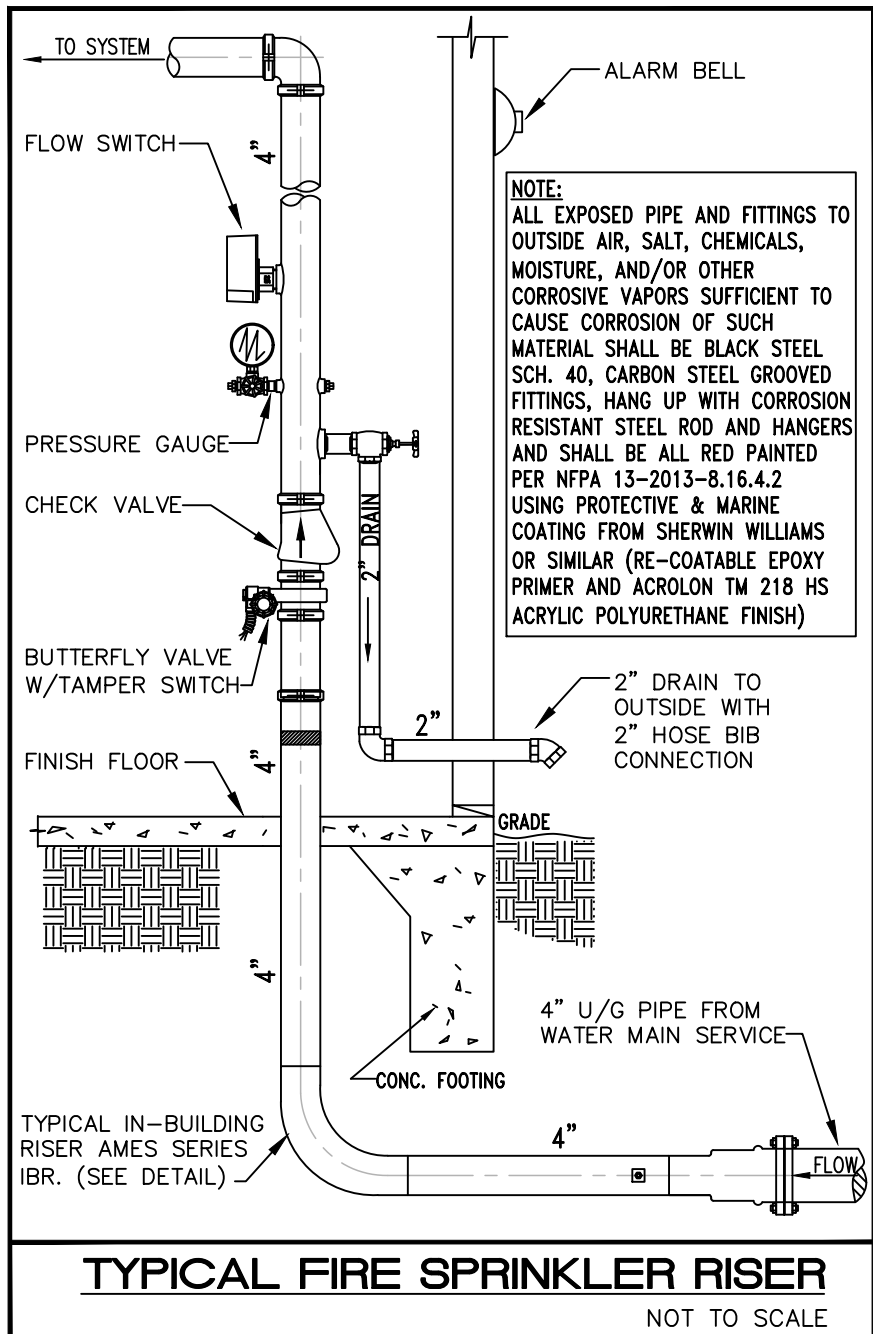
DOUBLE DETECTOR CHECK VALVE
NOT TO SCALE



FREE STANDING FDC
NOT TO SCALE



IN-BUILDING RISER AMES SERIES IBR
NOT TO SCALE



TYPICAL FIRE SPRINKLER RISER
NOT TO SCALE

HANGER SCHEDULE											
NFPA 13 TABLE 6.2.2. MAXIMUM DISTANCE BETWEEN HANGERS (FT - IN)											
NOMINAL PIPE SIZE	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	5"	8"
STEEL PIPE EXCEPT THREADED LIGHT-	N/A	12-0	12-0	15-0	15-0	15-0	15-0	15-0	15-0	15-0	15-0
THREADED LIGHT-WALL STEEL PIPE	N/A	12-0	12-0	12-0	12-0	12-0	12-0	N/A	N/A	N/A	N/A
CPVC	5-6	6-0	6-6	7-0	8-0	9-0	10-0	N/A	N/A	N/A	N/A

NOTES

- THERE SHALL BE NOT LESS THAN ONE HANGER FOR EACH SECTION OF PIPE.
- SUPPORT SPACING DISTANCE FOR END LINE SPRINKLER DROP ELBOWS AND DROP TEES TO BE IN ACCORDANCE WITH NFPA 13R AND THE PRODUCT APPROVAL LISTING.

Hydrant Flow Test Data:

Static: 68 psi
Residual: 50 psi
Flow: 1,051 gpm
Date: 9-23/2019
Location: 700 Briny Avenue
Pompano Beach, FL 33062
By: Sentinel Fire Protection & Service Co., Inc.

FIRE SPRINKLER SHEET INDEX

SHEET#	DESCRIPTION
FSP-0.1	FIRE SPRINKLER PERFORMANCE SPEC NOTES, LEGEND & INDEX
FSP-1.1	FIRE SPRINKLER PERFORMANCE SPEC SITE PLAN
FSP-2.1	FIRE SPRINKLER PERFORMANCE SPEC TYPICAL 1st FLOOR PLAN
FSP-2.2	FIRE SPRINKLER PERFORMANCE SPEC TYPICAL 2nd FLOOR PLAN
FSP-2.3	FIRE SPRINKLER PERFORMANCE SPEC TYPICAL 3rd FLOOR PLAN
FSP-2.4	FIRE SPRINKLER PERFORMANCE SPEC ROOF DECK PLAN

RNA

REX NICHOLS ARCHITECTS
1800 SOUTH FEDERAL HWY STE 800
POMPANO BEACH, FL 33062-1605
WWW.REXNICHOLSARCHITECTS.COM
T-954 951 6101

REX NICHOLS AIA
AR007415

PROPOSED TOWNHOUSES ADDRESS 700 BRINY
AV, POMPANO BEACH, 33062

OWNER : CARLO TREE LP
GREENPARK GROUP
5600 N Federal Highway
Fort Lauderdale - FL - 33308

PROJECT NUMBER 4/2018

**FIRE SPRINKLER
NOTES**

DESIGNED BY:
Alex Penna & Rex Nichols

DATE:
JUNE 12TH 2019

ISSUED FOR

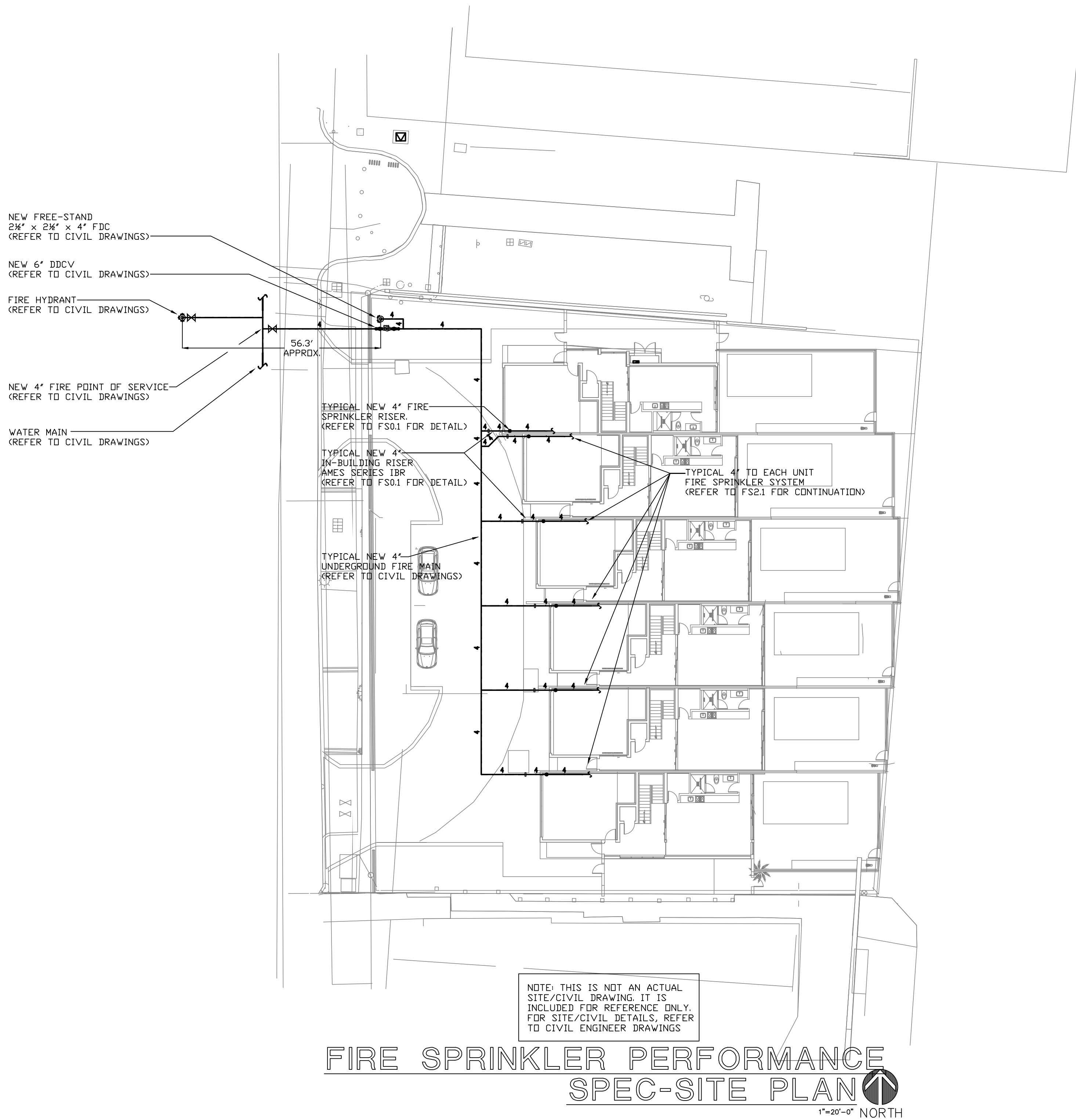
- ☐ REVIEW & COMMENTS
☐ RECORD
☐ NOT FOR CONSTRUCTION
☐ PERMIT
☐ CONSTRUCTION

FS0.1

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KAMM CONSULTING PROJECT #:	2019-0577
PROJECT MANAGER:	Rick Gonzalez
KAMM Consulting	1407 West Newport Center Drive Deerfield Beach, Florida 33442 Phone 954.949.2200 Fax 954.949.2201 engineering@kammconsulting.com Certification of Authorization #R189
02-05-20	
date	
signed	



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	02-05-20
	date
	signed

IMPORTANT ADDITIONAL NOTES:

1- THIS IS A FIRE SPRINKLER PERFORMANCE SPEC. A LICENSED AND CERTIFIED FIRE SPRINKLER CONTRACTOR SHALL FURNISH AND INSTALL NEW FIRE SPRINKLER COMPONENTS AS REQUIRED FOR A COMPLETE FUNCTIONAL FIRE PROTECTION SYSTEM IN ACCORDANCE WITH ALL APPLICABLE CODES AND LOCAL AHJ REQUIREMENTS.

2- FIRE SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE SHOP DRAWINGS AND HYDRAULIC CALCULATIONS SIGNED AND SEALED BY THEIR OWN FLORIDA REGISTERED PROFESSIONAL ENGINEER FOR FIRE SPRINKLER PERMIT.

3- ALL FIRE SPRINKLERS SHALL HAVE A U.L. APPROVED CORROSION RESISTANT COATING WHERE EXPOSED TO OUTSIDE AIR, SALT, CHEMICALS, MOISTURE, AND/OR OTHER CORROSIVE VAPORS SUFFICIENT TO CAUSE CORROSION OF SUCH DEVICES.

4- THE CONTRACTOR SHALL RECEIVE THE ARCHITECT'S APPROVAL FOR ALL FIRE SPRINKLERS/ESCUTCHEON FINISHES PRIOR TO ORDERING AND INSTALLING DESPITE WHAT IS SPECIFIED IN THESE DOCUMENTS.

5- ALL EXPOSED PIPE AND FITTINGS TO OUTSIDE AIR, SALT, CHEMICALS, MOISTURE, AND/OR OTHER CORROSIVE VAPORS SUFFICIENT TO CAUSE CORROSION OF SUCH MATERIALS SHALL BE BLACK STEEL PIPE SCH. 40, CARBON STEEL GROOVED FITTINGS, HANG UP WITH CORROSION RESISTANT STEEL ROD AND HANGERS AND SHALL BE ALL RED PAINTED PER NFPA 13:2013-8.16.4.2.

6- FIRE SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN A FLOW TEST PERFORMED BY THE LOCAL AUTHORITY TO ASCERTAIN THE WATER SERVICE REQUIRED FOR THE FIRE SPRINKLER INSTALLATION; THE HYDRAULIC CALCULATIONS SHALL ALLOW FOR A 10% PRESSURE REDUCTION AS A FACTOR OF SAFETY AND COMPLY WITH THE AHJ REQUIREMENTS AND/OR USE PRESSURE AND FLOW CRITERIA AS REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION.

7- THE CONTRACTOR SHALL CREATE SHOP DRAWINGS AND PERFORM HYDRAULIC CALCULATIONS AS PER NFPA 13-2010-8.15.19.5.2 ACCORDING TO THE RESPECTIVE HAZARD REQUIREMENTS. OWNER STANDARDS IF ANY AND BY CODE. SHALL SHOW PIPE SIZES, ALL FITTINGS, AND DIMENSIONAL LOCATIONS FOR ALL FIRE SPRINKLERS, MAINS, BRANCHES, AND PIPING FOR THE WATER SUPPLY TO THE CONNECTION OF THE SYSTEM.

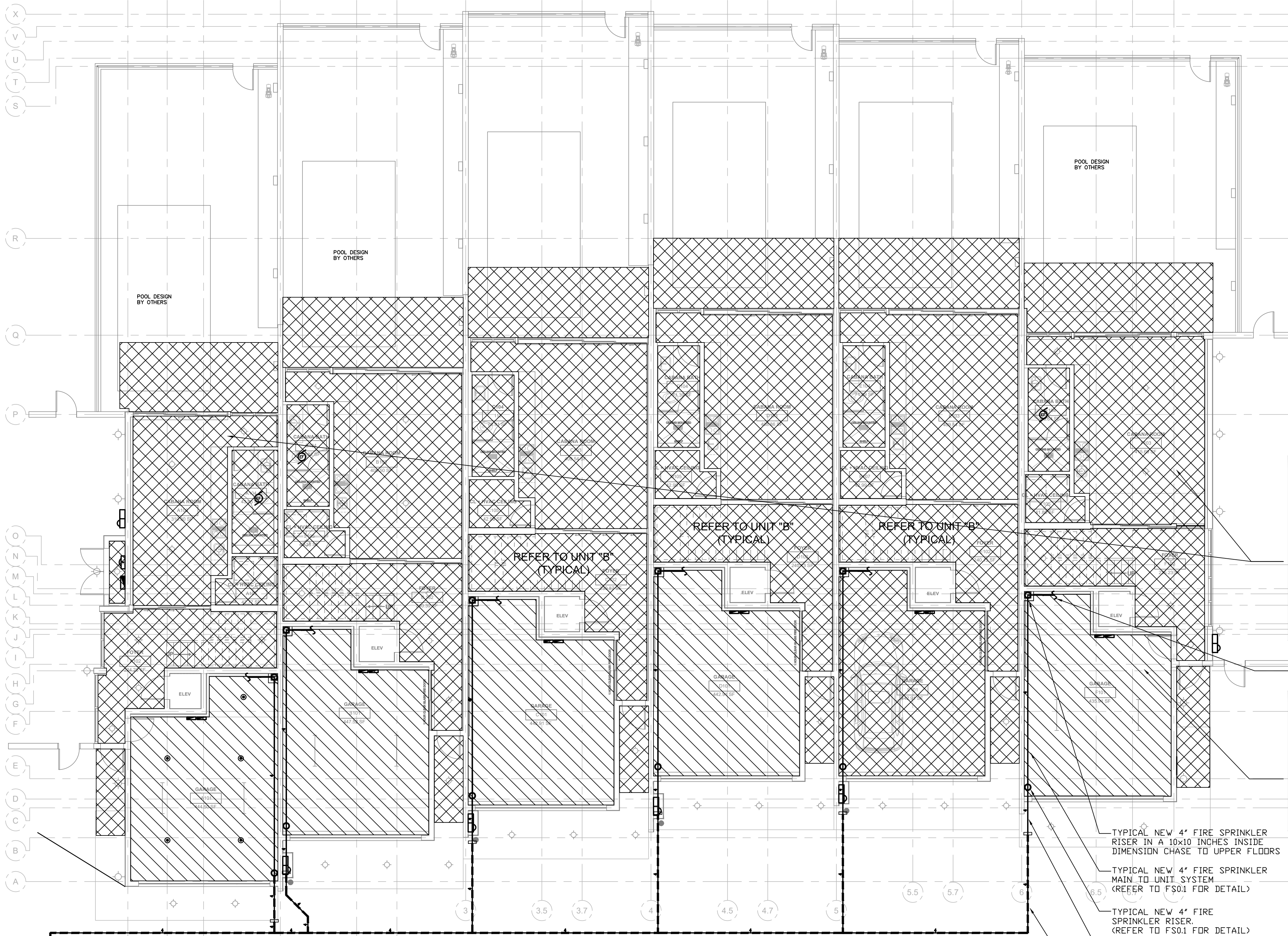
8- ANY PIPE SIZES INDICATED ON THE FIRE SPRINKLER EOR DOCUMENTS ARE PROVIDED FOR REFERENCE ONLY INCLUDING THE SIZE OF THE FIRE POINT OF SERVICE. THE ENGINEER OF RECORD MAKES NO REPRESENTATION AND CANNOT TAKE ANY RESPONSIBILITY FOR THE ACCURACY OF SUCH REPRESENTATION DUE TO THE LACK OF INFORMATION AT THE BEGINNING OF THE PROJECT. THE FIRE SPRINKLER CONTRACTOR CANNOT BASE HIS PRICE IN ANY EOR DRAWING PIPE SIZES DUE TO THE GIVEN REASONS. THE FIRE SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE TO PERFORM AND PROVIDE A HYDRAULICALLY CALCULATED FIRE SPRINKLER SYSTEM, CONFORMING TO ALL APPLICABLE NFPA CODES, HAZARDS, INCREASING OF REMOTE AREAS AND/OR DENSITIES IF REQUIRED, USING AND PROVIDING THE PROPER PIPE SIZES FOR THE MOST REMOTE AREAS AND SYSTEMS DEMAND, STARTING AT THE DESIGNATED POINT OF SERVICE AND SUCH CONDITION SHALL BE REFLECTED AND UNDERSTOOD BY THE FIRE SPRINKLER CONTRACTOR ASSUMING ALL HIS RESPONSIBILITIES IF FINAL PIPE SIZES DIFFER FROM EOR DRAWINGS, BEFORE SIGNING ANY POSSIBLE CONTRACT WITH THE OWNERS REPRESENTATIVE.

9- THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD COORDINATION AND FINAL LOCATION OF THE FIRE SPRINKLER HEADS (AS PER NFPA 13 AND AHJ); WITH THE RESPECTIVE HAZARD REQUIREMENTS BY CODE AND PIPING FOR FINAL FIRE PROTECTION LAYOUT DOCUMENTS PREPARATION AND FINAL INSTALLATION.

10- CONTRACTOR SHALL TAP IN INTO EXISTING SYSTEM WITH MECH. TEES OR SIMILAR CONNECTED FROM THE FIRE SPRINKLER MAIN WHEN IS REQUIRED TO ADD SPRINKLERS TO PROVIDE PROPER PIPE SIZES ACCORDING TO NFPA 13.

11- THE CONTRACTOR SHALL COORDINATE ALL FIRE SPRINKLER WORK WITH ALL OTHER CONSTRUCTION DISCIPLINES INCLUDING BUT NOT LIMITED TO HVAC, PLUMBING, ELECTRICAL, STRUCTURAL, CIVIL, ARCHITECTURAL AND FIRE ALARM. THE CONTRACTOR SHALL ALSO COORDINATE ANY SPECIAL TESTING REQUIRED BY THE OWNER.

12- SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE PROPER FIRE SPRINKLERS BELOW ANY OBSTRUCTION INCLUDED BUT NOT LIMITED TO DUCT, STRUCTURE, RAMP, ESCALATOR, STAIR, CEILING, SOFFIT, PIPE, DOOR, LANDING, RAMP ETC. IN ORDER TO PROVIDE PROPER FLOOR FIRE PROTECTION CODE COMPLIANCE SYSTEM DESPITE WHAT IS SPECIFIED IN THIS DRAWING. SUCH CONDITION SHALL BE REFLECTED IN HIS BID PRICE BEFORE SIGNING ANY CONTRACT WITH THE OWNER'S REPRESENTATIVE.



MOST REMOTE UNIT

TYPICAL RESIDENTIAL DWELLING UNITS:

FIRE SPRINKLER LOCATION PER NFPA 13R-2013-SECTION 6.6
FIRE SPRINKLER CALCULATION PER NFPA 13R-2013 FOR DWELLING UNITS DENSITY: =0.10 GPM/SG.F.T. MAX. AREA PER HEAD: 225 ft². OR AS PER LISTING.
HOSE ALLOWANCE: 100 GPM. TEMPERATURE 155° F. THE DESIGN AREA SHALL BE THE AREA THAT INCLUDES THE FOUR ADJACENT SPRINKLERS THAT PRODUCE THE GREATEST HYDRAULIC DEMAND PER NFPA 13R:2013:7.1.1.3

TYPICAL TO GROUND FLOOR SYSTEM

TYPICAL GARAGE & TRASH ROOMS:

PROTECTED PER NFPA 13R-2013-SECTION 7.3.1. ORDINARY HAZARD GROUP 1 DENSITY: =0.15 GPM/ft². MAX. AREA PER HEAD: 130 ft². USING STANDARD OR SPRINKLERS TEMPERATURE 155°F. HOSE ALLOWANCE: 250 GPM. CALCULATE THE ENTIRE AREA. (4 FIRE SPRINKLERS).

TYPICAL NEW 4" FIRE SPRINKLER RISER IN A 10x10 INCHES INSIDE DIMENSION CHASE TO UPPER FLOORS

TYPICAL NEW 4" FIRE SPRINKLER MAIN TO UNIT SYSTEM (REFER TO FS01 FOR DETAIL)

TYPICAL NEW 4" FIRE SPRINKLER RISER. (REFER TO FS01 FOR DETAIL)

TYPICAL NEW 4" IN-BUILDING RISER AMES SERIES 1BR (REFER TO FS01 FOR DETAIL)

TYPICAL NEW 4" FIRE UNDERGROUND MAIN (REFER TO CIVIL DRAWINGS)

FIRE SPRINKLER CONTRACTOR SCOPE OF WORK:

A LICENSED AND CERTIFIED FIRE SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE TO DESIGN, PERMIT AND INSTALL THE NEW FIRE SPRINKLER COMPONENTS AS REQUIRED FOR A COMPLETE FUNCTIONAL CODE COMPLIANT FIRE SPRINKLER SYSTEM IN ACCORDANCE TO ALL APPLICABLE NFPA CODES, OWNER & UNDERWRITER INSURANCE STANDARDS, THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) REQUIREMENTS AND THE ENGINEER OF RECORD (EOR) 616-15 DOCUMENTS PER FLORIDA STATUTES.

TYPICAL NEW 4" UNDERGROUND FIRE MAIN FROM FIRE POINT OF (REFER TO CIVIL DRAWINGS)

FIRE SPRINKLER PERFORMANCE SPEC GROUND FLOOR PLAN

1/8"=1'-0"



RNA

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AV. POMPANO BEACH, 33062

OWNER : CARLO TREE LP

GREENPARK GROUP
5600 N Federal Highway
Fort Lauderdale - FL - 33308

PROJECT NUMBER 4/2018

FIRE SPRINKLER
PLAN 1ST FLOOR

DESIGNED BY:
Alex Penna & Rex Nichols

DATE:
JUNE 12TH 2019

ISSUED FOR

☒ REVIEW & COMMENTS
☐ BIDDING
☐ NOT FOR CONSTRUCTION
☐ PERMIT
☐ CONSTRUCTION

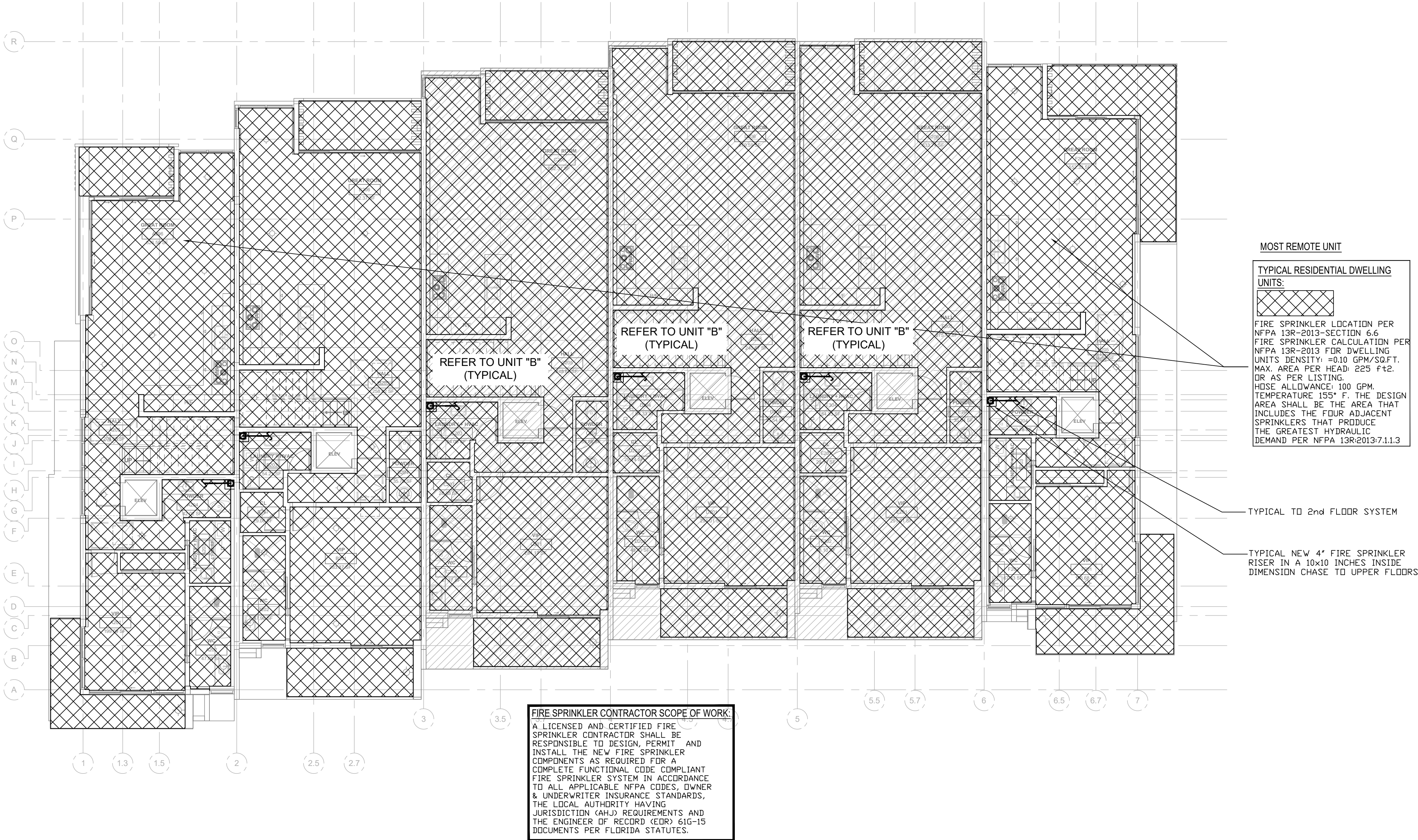
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KAMM CONSULTING PROJECT #:	2019-0577
PROJECT MANAGER:	Rick Gonzalez
1407 West Newport Center Drive Deerfield Beach, Florida 33442 Phone 954.949.2200 Fax 954.949.2201 engineering@kammconsulting.com Certification of Authorization #R189	
02-05-20	date
	signed

- IMPORTANT ADDITIONAL NOTES:
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 - 2- FIRE SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE SHOP DRAWINGS AND HYDRAULIC CALCULATIONS SIGNED AND SEALED BY THEIR OWN FLORIDA REGISTERED PROFESSIONAL ENGINEER FOR FIRE SPRINKLER PERMIT.
 - 3- ALL FIRE SPRINKLERS SHALL HAVE A U.L. APPROVED CORROSION RESISTANT COATING WHERE EXPOSED TO OUTSIDE AIR, SALT, CHEMICALS, MOISTURE, AND/OR OTHER CORROSIVE VAPORS SUFFICIENT TO CAUSE CORROSION OF SUCH DEVICES.
 - 4- THE CONTRACTOR SHALL RECEIVE THE ARCHITECT'S APPROVAL FOR ALL FIRE SPRINKLERS/ESCUTCHEON FINISHES PRIOR TO ORDERING AND INSTALLING DESPITE WHAT IS SPECIFIED IN THESE DOCUMENTS.
 - 5- ALL EXPOSED PIPE AND FITTINGS TO OUTSIDE AIR, SALT, CHEMICALS, MOISTURE, AND/OR OTHER CORROSIVE VAPORS SUFFICIENT TO CAUSE CORROSION OF SUCH MATERIALS SHALL BE BLACK STEEL PIPE SCH. 40, CARBON STEEL GROOVED FITTINGS, HANG UP WITH CORROSION RESISTANT STEEL ROD AND HANGERS AND SHALL BE ALL RED PAINTED PER NFPA 13:2013-8.16.4.2.
 - 6- FIRE SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN A FLOW TEST PERFORMED BY THE LOCAL AUTHORITY TO ASCERTAIN THE WATER SERVICE REQUIRED FOR THE FIRE SPRINKLER INSTALLATION; THE HYDRAULIC CALCULATIONS SHALL ALLOW FOR A 10% PRESSURE REDUCTION AS A FACTOR OF SAFETY AND COMPLY WITH THE AHJ REQUIREMENTS AND/OR USE PRESSURE AND FLOW CRITERIA AS REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
 - 7- THE CONTRACTOR SHALL CREATE SHOP DRAWINGS AND PERFORM HYDRAULIC CALCULATIONS AS PER NFPA 13-2010-8.15.19.5.2 ACCORDING TO THE RESPECTIVE HAZARD REQUIREMENTS BY OWNER STANDARDS IF ANY AND BY CODE. SHALL SHOW PIPE SIZES, ALL FITTINGS, AND DIMENSIONAL LOCATIONS FOR ALL FIRE SPRINKLERS, MAINS, BRANCHES, AND PIPING FOR THE WATER SUPPLY TO THE CONNECTION OF THE SYSTEM.
 - 8- ANY PIPE SIZES INDICATED ON THE FIRE SPRINKLER EDR DOCUMENTS ARE PROVIDED FOR REFERENCE ONLY INCLUDING THE SIZE OF THE FIRE POINT OF SERVICE. THE ENGINEER OF RECORD MAKES NO REPRESENTATION AND CANNOT TAKE ANY RESPONSIBILITY FOR THE ACCURACY OF SUCH REPRESENTATION DUE TO THE LACK OF INFORMATION AT THE BEGINNING OF THE PROJECT. THE FIRE SPRINKLER CONTRACTOR CANNOT BASE HIS PRICE IN ANY EOR DRAWING PIPE SIZES DUE TO THE GIVEN REASONS. THE FIRE SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE TO PERFORM AND PROVIDE A HYDRAULICALLY CALCULATED FIRE SPRINKLER SYSTEM, CONFORMING TO ALL APPLICABLE NFPA CODES, HAZARDS, INCREASING OF REMOTE AREAS AND/OR DENSITIES IF REQUIRED, USING AND PROVIDING THE PROPER PIPE SIZES FOR THE MOST REMOTE AREAS AND SYSTEMS DEMAND, STARTING AT THE DESIGNATED POINT OF SERVICE AND SUCH CONDITION SHALL BE REFLECTED AND UNDERSTOOD BY THE FIRE SPRINKLER CONTRACTOR ASSUMING ALL HIS RESPONSIBILITIES IF FINAL PIPE SIZES DIFFER FROM EOR DRAWINGS, BEFORE SIGNING ANY POSSIBLE CONTRACT WITH THE OWNERS REPRESENTATIVE.
 - 9- THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD COORDINATION AND FINAL LOCATION OF THE FIRE SPRINKLER HEADS (AS PER NFPA 13 AND AHJ); WITH THE RESPECTIVE HAZARD REQUIREMENTS BY CODE AND PIPING FOR FINAL FIRE PROTECTION LAYOUT DOCUMENTS PREPARATION AND FINAL INSTALLATION.
 - 10- CONTRACTOR SHALL TAP IN INTO EXISTING SYSTEM WITH MECH. TEES OR SIMILAR CONNECTED FROM THE FIRE SPRINKLER MAIN WHEN IS REQUIRED TO ADD SPRINKLERS TO PROVIDE PROPER PIPE SIZES ACCORDING TO NFPA 13.
 - 11- THE CONTRACTOR SHALL COORDINATE ALL FIRE SPRINKLER WORK WITH ALL OTHER CONSTRUCTION DISCIPLINES INCLUDING BUT NOT LIMITED TO HVAC, PLUMBING, ELECTRICAL, STRUCTURAL, CIVIL, ARCHITECTURAL AND FIRE ALARM. THE CONTRACTOR SHALL ALSO COORDINATE ANY SPECIAL TESTING REQUIRED BY THE OWNER.
 - 12- SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE PROPER FIRE SPRINKLERS BELOW ANY OBSTRUCTION INCLUDED BUT NOT LIMITED TO DUCT, STRUCTURE, RAMP, ESCALATOR, STAIR, CEILING, SOFFIT, PIPE, DOOR, LANDING, RAMP ETC. IN ORDER TO PROVIDE PROPER FLOOR FIRE PROTECTION CODE COMPLIANCE SYSTEM DESPITE WHAT IS SPECIFIED IN THIS DRAWING. SUCH CONDITION SHALL BE REFLECTED IN HIS BID PRICE BEFORE SIGNING ANY CONTRACT WITH THE OWNER'S REPRESENTATIVE.



FIRE SPRINKLER PERFORMANCE
SPEC SECOND FLOOR PLAN

1/8"=1'-0"

NORTH

ISSUED FOR PERMIT	
ISSUED FOR CONSTRUCTION	
KAMM CONSULTING PROJECT #: 2019-0577	
PROJECT MANAGER: Rick Gonzalez	
<input checked="" type="checkbox"/> KAMM Consulting	1407 West Newport Center Drive Deerfield Beach, Florida 33442 Phone 954.949.2200 Fax 954.949.2201 engineering@kammconsulting.com Certification of Authorization #R189
02-05-20	date
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OWNER : CARLO TREE LP
GREENPARK GROUP
5600 N Federal Highway
Fort Lauderdale - FL - 33308

PROJECT NUMBER 4/2018

FIRE SPRINKLER
PLAN 2ND FLOOR

DESIGNED BY:
Alex Penna & Rex Nichols

DATE:
JUNE 12TH 2019

ISSUED FOR

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IMPORTANT ADDITIONAL NOTES:

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3- ALL FIRE SPRINKLERS SHALL HAVE A UL APPROVED CORROSION RESISTANT COATING WHERE EXPOSED TO OUTSIDE AIR, SALT, CHEMICALS, MOISTURE, AND/OR OTHER CORROSIVE VAPORS SUFFICIENT TO CAUSE CORROSION OF SUCH DEVICES.

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FIRE SPRINKLER PERFORMANCE
SPEC THIRD FLOOR PLAN

1/8"=1'-0"

NORTH

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OWNER : CARLO TREE LP

GREENPARK GROUP
5600 N Federal Highway
Fort Lauderdale - FL - 33308

PROJECT NUMBER 4/2018

FIRE SPRINKLER
PLAN 3RD FLOOR

DESIGNED BY:

Alex Penna & Rex Nichols

DATE:

JUNE 12TH 2019

ISSUED FOR

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KAMM CONSULTING PROJECT #:	2019-0577
PROJECT MANAGER:	Rick Gonzalez
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02-05-20	date
	signed

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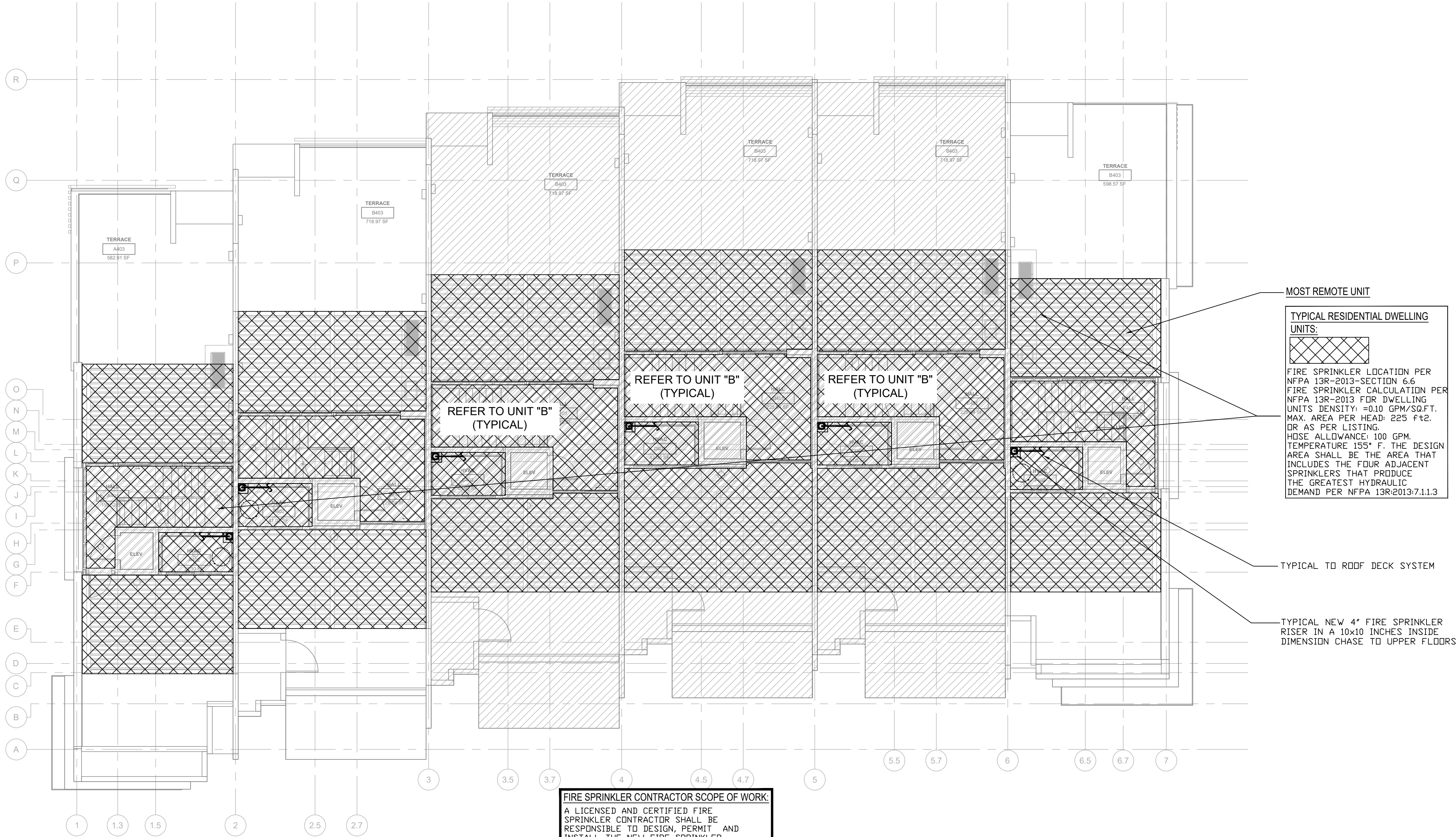
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FIRE SPRINKLER PERFORMANCE
SPEC ROOF DECK PLAN

1/8"=1'-0"



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ISSUED FOR CONSTRUCTION	-
KAMM CONSULTING PROJECT #:	2019-0577
PROJECT MANAGER:	Rick Gonzalez
	1407 West Newport Center Drive Deerfield Beach, Florida 33442 Phone 954.949.2200 Fax 954.949.2201 engineering@kammconsulting.com Certification of Authorization #R189
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GREENPARK GROUP
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PROJECT NUMBER 4/2018

FIRE SPRINKLER
PLAN ROOF DECK

DESIGNED BY:
Alex Penna & Rex Nichols

DATE:
JUNE 12TH 2019

ISSUED FOR

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