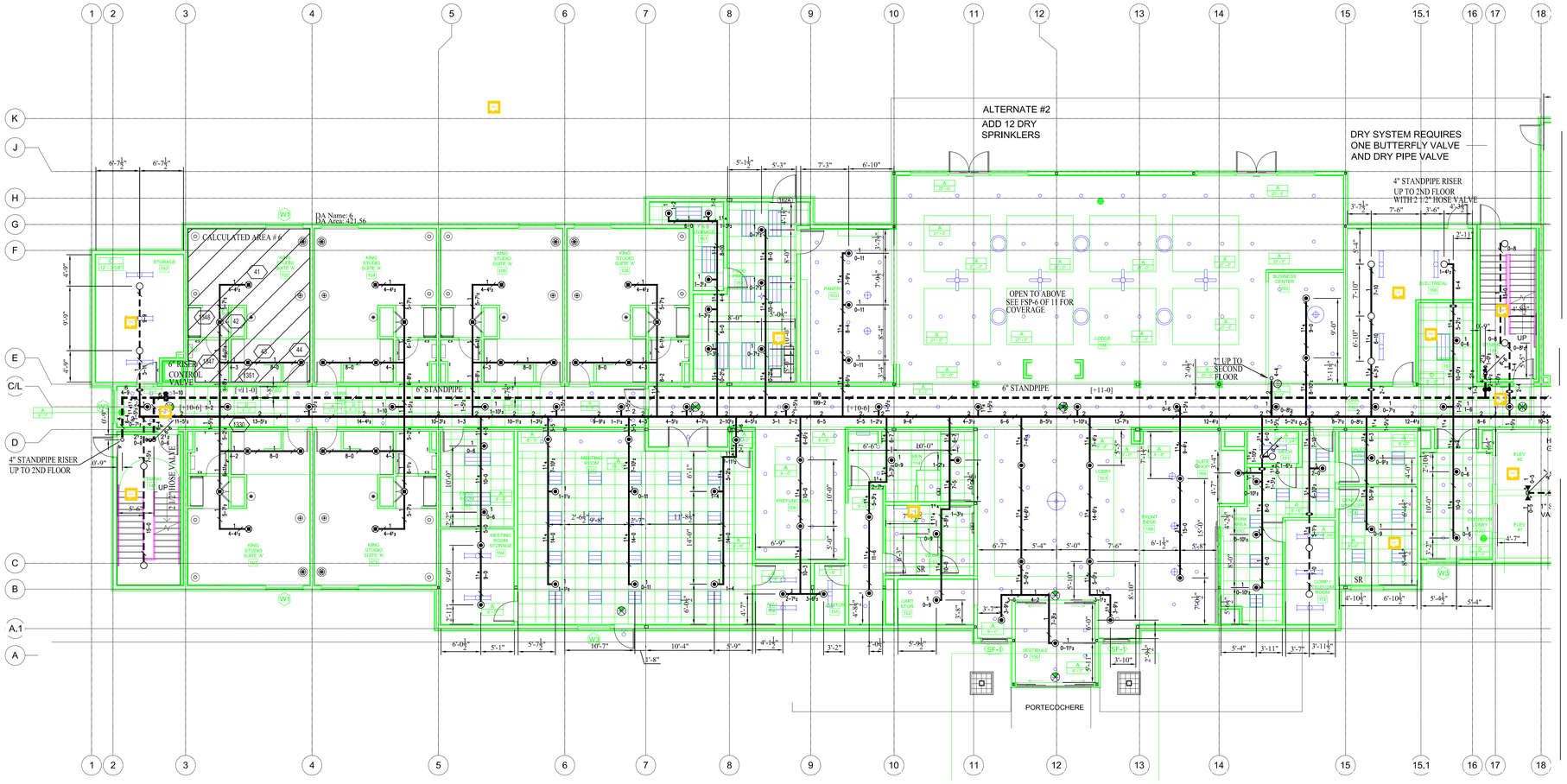


FIRST FLOOR FIRE WEST SPRINKLER PLAN

SCALE 1/8"=1'-0"

* LIGHT HAZARD OCCUPANCY UNLESS OTHERWISE NOTED *
* 16 X 20 SQ. FT. MAXIMUM PROTECTION AREA FOR HOTEL UNITS
* 14 X 14SQ. FT. MAXIMUM PROTECTION AREA FOR HALLWAYS
* CONTRACTOR'S CONTRACT STARTS 5 FEET OUTSIDE BUILDING AT FLANGE *
* ALL UNDERGROUND PIPING SHOWN FOR REFERENCE ONLY NOT IN CONTRACT *

SCOPE OF WORK:

TJI WOOD CONSTRUCTION
WET SYSTEM ON THE FIRST THROUGH FOURTH FLOORS

FIRE SPRINKLER NOTES:

SYSTEM DESIGNED AS PER NFPA #13 2013 EDITION

111 TOTAL SPRINKLER HEADS W/ DEFLECTORS @ 1"-12" FROM BOTTOM OF CEILING/ DECK & PARALLEL

FOR PENDANTS, AND 4"-6" FOR SIDEWALLS

16,400 SQ. FT. TOTAL AREA PROTECTED ON FIRST FLOOR

CONTRACTOR SHALL:

PROVIDE REQUIRED SIGNS & FLUSHING CONNECTIONS

CONTRACTORS MATERIAL AND TEST CERTIFICATES FOR ABOVE GROUND AND UNDERGROUND

PIPE SHALL BE SUBMITTED TO THE FIRE MARSHALL PRIOR TO APPROVAL OF THE INSTALLATION

PIPE MATERIAL:

1" - 1 1/4" SCHEDULE 40 THREADED BLACK STEEL W/ THREADED CAST IRON FITTINGS

WET SYSTEM BLACK STEEL PIPE, DRY SYSTEM TO BE GALVANIZED

2"-6" SCHEDULE 10 GROOVED BLACK STEEL W/ GROOVED FITTINGS W/ WELDED OUTLETS

1" TO 2" BLAZEMASTER CPVC PIPE & FITTINGS

ALL DIMENSIONS & ELEVATIONS ARE CENTERLINE OF PIPE & STEEL UNLESS NOTED OTHERWISE

CONTRACTOR TO VERIFY

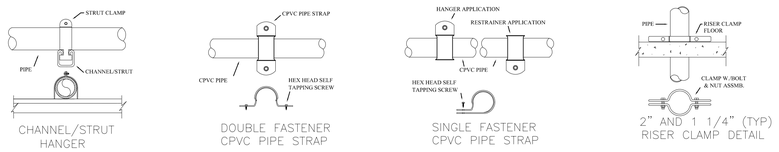
ALL PIPE LENGTHS SHOWN ARE CENTER TO CENTERS

Calculation results for Design Area 6 – First Floor King Suite

This system as shown on Briad Construction company print no _____ dated April 16,2019
for Homewood Suites by Hilton at 100 Parsonage Road
contract no 18-4938 is designed to discharge at a rate of 0.1 gpm/ft² (L/min/m²) of floor area over a maximum area of 624 ft² when supplied with water at a rate of 231.5 gpm at 45.4 psi at the base of the riser.
Hose stream allowance of ___ is included in the above.
Occupancy classification: Residential — Number of heads flowing: 4
Commodity classification: — System Type: Wet
Maximum storage height: — Maximum velocity: 44.3 ft/s
Storage arrangement:

Flow from In-Rack sprinklers:	0 gpm	Pressure Required at Source:	45.4 psi
Flow from Overhead sprinklers:	131.5 gpm	Pressure Available at Source:	55.8 psi
Flow from Inside Hoses:	0 gpm	Surplus Pressure at Source:	10.4 psi
Flow from Outside Hoses:	100 gpm		
Other fixed flows:	0 gpm		
Total flow in system piping:	231.5 gpm		
Additional flow at/beyond source:	0 gpm		
Total of all flows:	231.5 gpm		

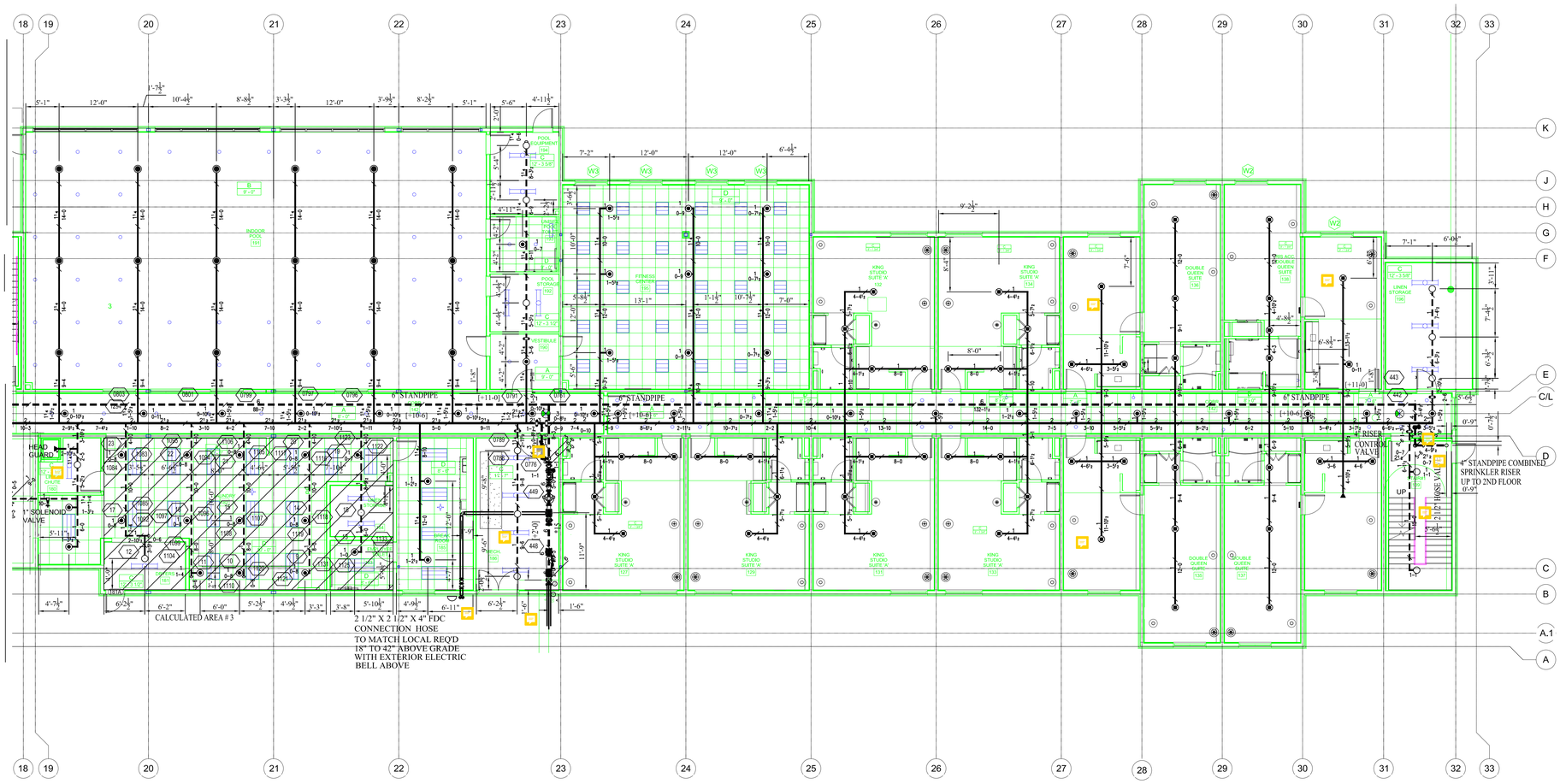
	SPRINKLER LEGEND
——	WET CPVC SPRINKLER PIPE
– –	STEEL SPRINKLER PIPE
·····	STEEL STANDPIPE
①	HYDRAULIC NODE
○	SPRINKLER RISER/DROP NIPPLE
—/—	HANGER (SEE DETAIL SHEET 2)
	FIRE DEPARTMENT CONNECTION



(CPVC) HANGER DETAILS

NOT TO SCALE

MATCH LINE A-A SEE DRAWING FSP 4 OF 11



	SPRINKLER LEGEND
——	WET CPVC SPRINKLER PIPE
– –	STEEL SPRINKLER PIPE
-----	STEEL STANDPIPE
①	HYDRAULIC NODE
○	SPRINKLER RISER/DROP NIPPLE
—/—	HANGER (SEE DETAIL SHEET 2)
	FIRE DEPARTMENT CONNECTION

FIRST FLOOR FIRE EAST SPRINKLER PLAN

SCALE 1/8"=1'-0"

* LIGHT HAZARD OCCUPANCY UNLESS OTHERWISE NOTED *
* 16 X 20 SQ. FT. MAXIMUM PROTECTION AREA FOR HOTEL UNITS
* 14 X 14SQ. FT. MAXIMUM PROTECTION AREA FOR HALLWAYS
* CONTRACTOR'S CONTRACT STARTS 5 FEET OUTSIDE BUILDING AT FLANGE *
* ALL UNDERGROUND PIPING SHOWN FOR REFERENCE ONLY NOT IN CONTRACT *

SCOPE OF WORK:

TJI WOOD CONSTRUCTION
WET SYSTEM ON THE FIRST THROUGH FOURTH FLOORS

FIRE SPRINKLER NOTES:

SYSTEM DESIGNED AS PER NFPA #13 2013 EDITION

128 TOTAL SPRINKLER HEADS W/ DEFLECTORS @ 1"-12" FROM BOTTOM OF CEILING/ DECK & PARALLEL FOR PENDANTS, AND 4"-6" FOR SIDEWALLS

16,400 SQ. FT. TOTAL AREA PROTECTED ON FIRST FLOOR

CONTRACTOR SHALL:

PROVIDE REQUIRED SIGNS & FLUSHING CONNECTIONS

CONTRACTORS MATERIAL AND TEST CERTIFICATES FOR ABOVE GROUND AND UNDERGROUND PIPE SHALL BE SUBMITTED TO THE FIRE MARSHALL PRIOR TO APPROVAL OF THE INSTALLATION

PIPE MATERIAL:

1" - 1 1/4" SCHEDULE 40 THREADED BLACK STEEL W/ THREADED CAST IRON FITTINGS

WET SYSTEM BLACK STEEL PIPE, DRY SYSTEM TO BE GALVANIZED

2"-6" SCHEDULE 10 GROOVED BLACK STEEL W/ GROOVED FITTINGS W/ WELDED OUTLETS

1" TO 2" BLAZEMASTER CPVC PIPE & FITTINGS

ALL DIMENSIONS & ELEVATIONS ARE CENTERLINE OF PIPE & STEEL UNLESS NOTED OTHERWISE

CONTRACTOR TO VERIFY

ALL PIPE LENGTHS SHOWN ARE CENTER TO CENTERS

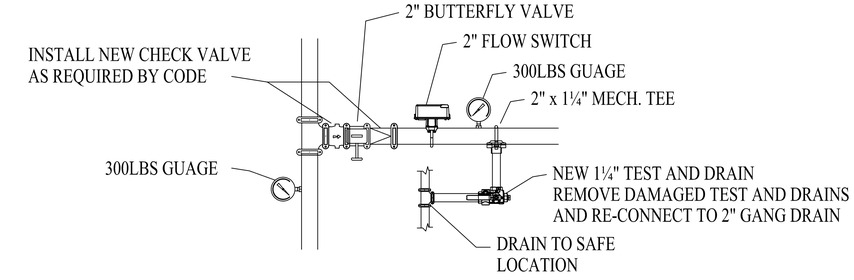
Calculation results for Design Area 3 – Laundry

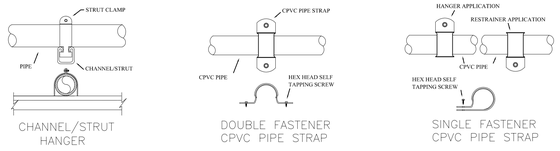
This system as shown on Briad Construction company print no _____ dated April 16 2019
for Homewood Suites by Hilton at 100 Parsonage Road
contract no 18-4938 is designed to discharge at a rate of 0.15 gpm/ft² (L/min/m²) of floor area over a maximum area of 900 ft² when supplied with water at a rate of 549.5 gpm at -21.9 psi at the base of the riser.
Hose stream allowance of _____ is included in the above.

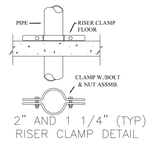
Occupancy classification: Ordinary Hazaard Gr. 1
Commodity classification: _____
Maximum storage height: _____
Storage arrangement: _____
Number of heads flowing: 15
System Type: Wet
Maximum velocity: 23.23 ft/s

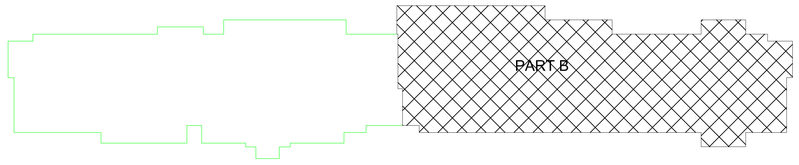
Flow from In-Rack sprinklers:	0 gpm
Flow from Overhead sprinklers:	299.5 gpm
Flow from Inside Hoses:	0 gpm
Flow from Outside Hoses:	250 gpm
Other fixed flows:	0 gpm
Total flow in system piping:	549.5 gpm
Additional flow at/beyond source:	0 gpm
Total of all flows:	549.5 gpm

Pressure Required at Source:	-21.9 psi
Pressure Available at Source:	55.2 psi
Surplus Pressure at Source:	77 psi



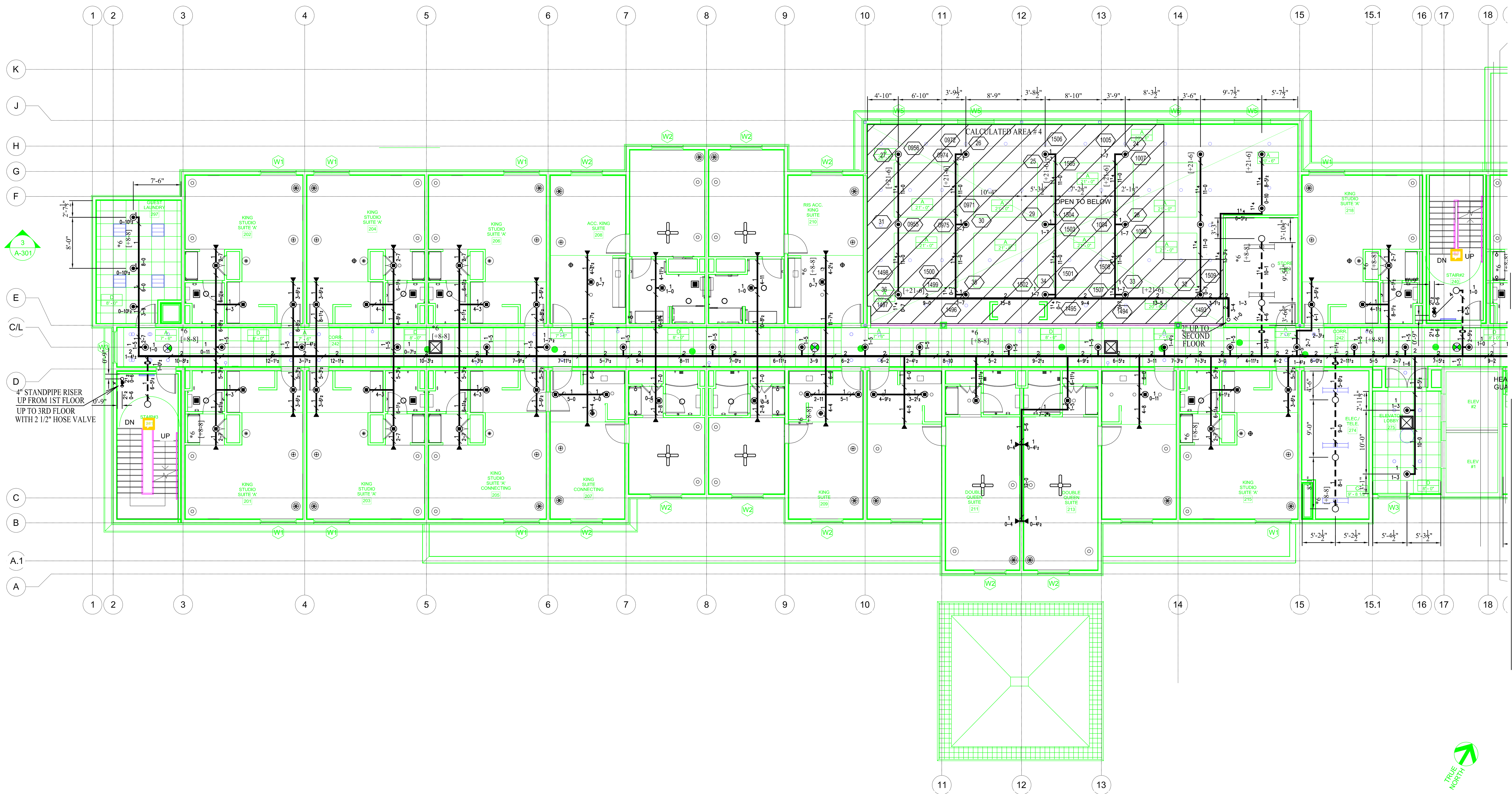






(CPVC) HANGER DETAILS

NOT TO SCALE



MATCH LINE B-B SEE DRAWING FSP 7 OF 11

Calculation results for Design Area 4 – Lobby

This system as shown on Briad Construction company print no ______ dated April 16,2019
for Homewood Suites by Hilton at 100 Parsonage Road
contract no 18-4938 is designed to discharge at a rate of 0.1 gpm/ft² (L/min/m²) of floor area over
a maximum area of 1500 ft² when supplied with water at a rate of 377.8 gpm at 44.6 psi at the base of the riser.
Hose stream allowance of ______ is included in the above.

Occupancy classification:	Light Hazard Occupancy	Number of heads flowing:	13
Commodity classification:		System Type:	Wet
Maximum storage height:		Maximum velocity:	28.29 ft/s
Storage arrangement:			

Flow from In-Rack sprinklers:	0 gpm	Pressure Required at Source:	44.6 psi
Flow from Overhead sprinklers:	277.8 gpm	Pressure Available at Source:	55.6 psi
Flow from Inside Hoses:	0 gpm	Surplus Pressure at Source:	10.9 psi
Flow from Outside Hoses:	100 gpm		
Other fixed flows:	0 gpm		
Total flow in system piping:	377.8 gpm		
Additional flow at/beyond source:	0 gpm		
Total of all flows:	377.8 gpm		

SECOND FLOOR WEST FIRE SPRINKLER PLAN

2 1 0 4 8
SCALE 1/8"=1'-0"

* LIGHT HAZARD OCCUPANCY UNLESS OTHERWISE NOTED *
* 16 X 20 SQ. FT. MAXIMUM PROTECTION AREA FOR HOTEL UNITS
* 14 X 14SQ. FT. MAXIMUM PROTECTION AREA FOR HALLWAYS
* CONTRACTOR'S CONTRACT STARTS 5 FEET OUTSIDE BUILDING AT FLANGE *
* ALL UNDERGROUND PIPING SHOWN FOR REFERENCE ONLY NOT IN CONTRACT *

SCOPE OF WORK:

TJI WOOD CONSTRUCTION
WET SYSTEM ON THE FIRST THROUGH FOURTH FLOORS

FIRE SPRINKLER NOTES:

SYSTEM DESIGNED AS PER NFPA #13 2013 EDITION

117 TOTAL SPRINKLER HEADS W/ DEFLECTORS @ 1"-12" FROM BOTTOM OF CEILING/ DECK & PARALLEL

FOR PENDANTS, AND 4"-6" FOR SIDEWALLS

16,400 SQ. FT. TOTAL AREA PROTECTED ON SECOND FLOOR

CONTRACTOR SHALL:

PROVIDE REQUIRED SIGNS & FLUSHING CONNECTIONS

CONTRACTORS MATERIAL AND TEST CERTIFICATES FOR ABOVE GROUND AND UNDERGROUND

PIPE SHALL BE SUBMITTED TO THE FIRE MARSHALL PRIOR TO APPROVAL OF THE INSTALLATION

PIPE MATERIAL:

1" - 1 1/4" SCHEDULE 40 THREADED BLACK STEEL W/ THREADED CAST IRON FITTINGS

WET SYSTEM BLACK STEEL PIPE, DRY SYSTEM TO BE GALVANIZED

2"-6" SCHEDULE 10 GROOVED BLACK STEEL W/ GROOVED FITTINGS W/ WELDED OUTLETS

1" TO 2" BLAZEMASTER CPVC PIPE & FITTINGS

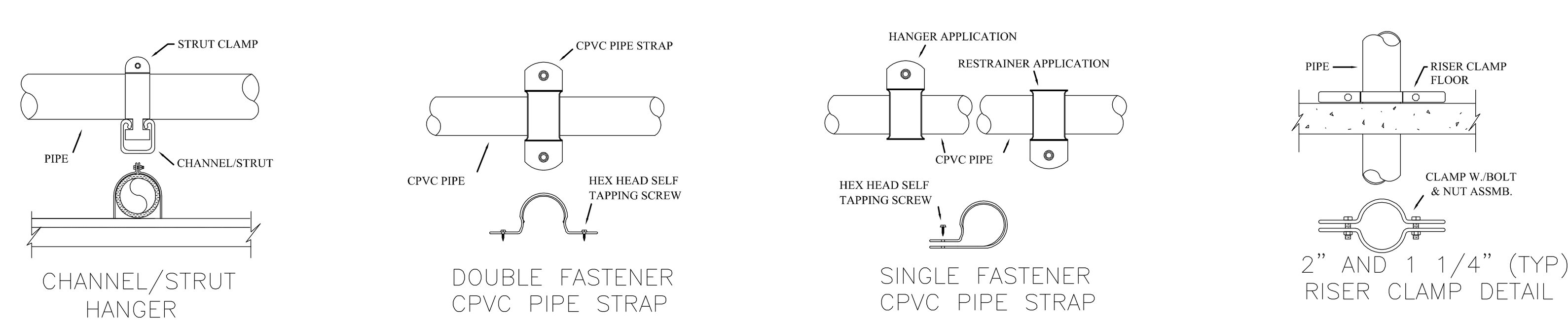
ALL DIMENSIONS & ELEVATIONS ARE CENTERLINE OF PIPE & STEEL UNLESS NOTED OTHERWISE

CONTRACTOR TO VERIFY

ALL PIPE LENGTHS SHOWN ARE CENTER TO CENTERS

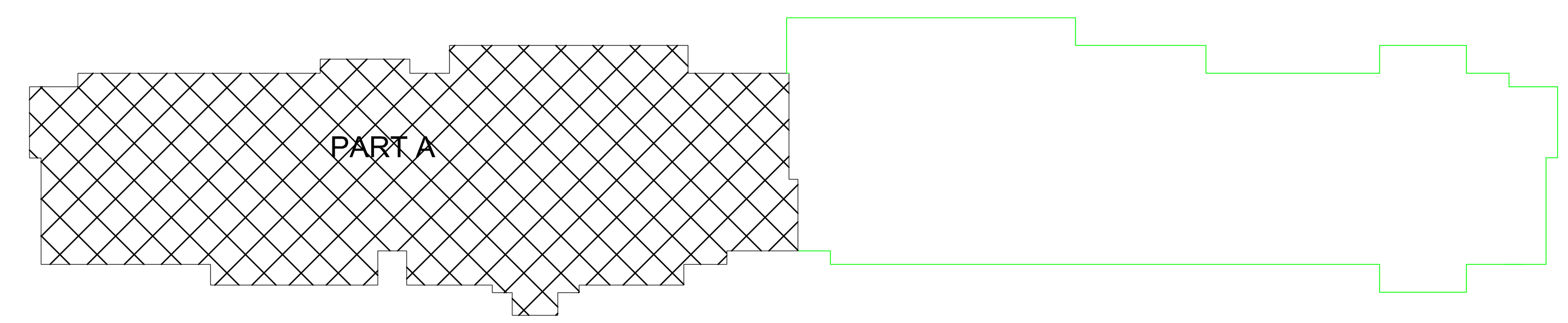
TRUE NORTH

	SPRINKLER LEGEND
——	WET CPVC SPRINKLER PIPE
– –	STEEL SPRINKLER PIPE
·····	STEEL STANDPIPE
ⓘ	HYDRAULIC NODE
○	SPRINKLER RISER/DROP NIPPLE
⟋	HANGER (SEE DETAIL SHEET 2)
FDC	FIRE DEPARTMENT CONNECTION

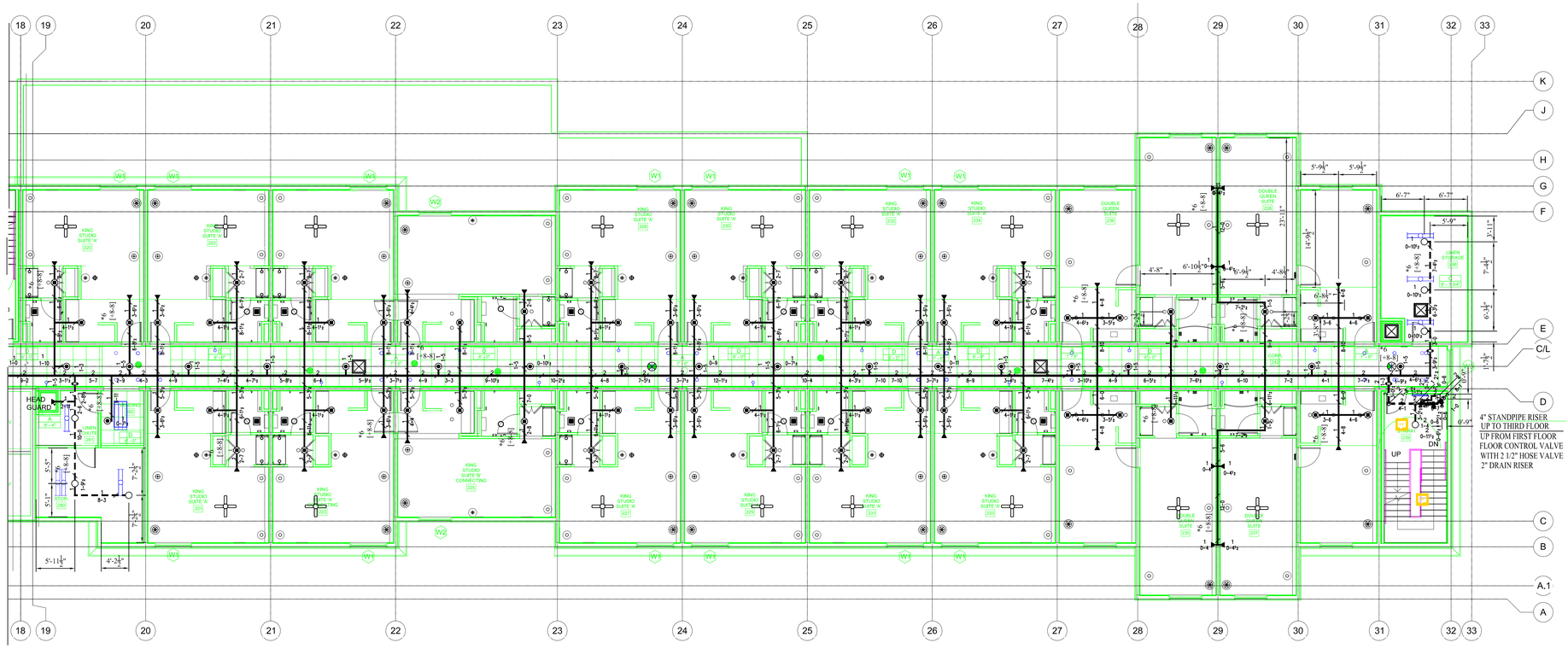


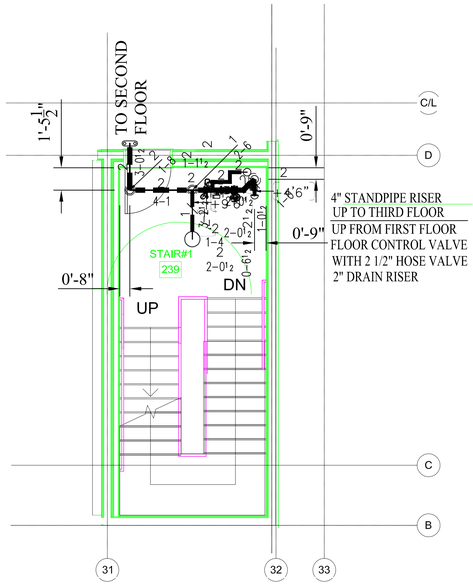
(CPVC) HANGER DETAILS

NOT TO SCALE



MATCH LINE B-B SEE DRAWING FSP 6 OF 11





SECOND FLOOR EAST FIRE SPRINKLER PLAN

SCALE 1/8"=1'-0"

* LIGHT HAZARD OCCUPANCY UNLESS OTHERWISE NOTED *
* 16 X 20 SQ. FT. MAXIMUM PROTECTION AREA FOR HOTEL UNITS
* 14 X 14SQ. FT. MAXIMUM PROTECTION AREA FOR HALLWAYS
* CONTRACTOR'S CONTRACT STARTS 5 FEET OUTSIDE BUILDING AT FLANGE *
* ALL UNDERGROUND PIPING SHOWN FOR REFERENCE ONLY NOT IN CONTRACT *

SCOPE OF WORK:

TJI WOOD CONSTRUCTION
WET SYSTEM ON THE FIRST THROUGH FOURTH FLOORS

FIRE SPRINKLER NOTES:

SYSTEM DESIGNED AS PER NFPA #13 2013 EDITION

126 TOTAL SPRINKLER HEADS W/ DEFLECTORS @ 1"-12" FROM BOTTOM OF CEILING/ DECK & PARALLEL

FOR PENDANTS, AND 4"-6" FOR SIDEWALLS

16,400 SQ. FT. TOTAL AREA PROTECTED ON SECOND FLOOR

CONTRACTOR SHALL:

PROVIDE REQUIRED SIGNS & FLUSHING CONNECTIONS

CONTRACTORS MATERIAL AND TEST CERTIFICATES FOR ABOVE GROUND AND UNDERGROUND

PIPE SHALL BE SUBMITTED TO THE FIRE MARSHALL PRIOR TO APPROVAL OF THE INSTALLATION

PIPE MATERIAL:

1" - 1 1/4" SCHEDULE 40 THREADED BLACK STEEL W/ THREADED CAST IRON FITTINGS

WET SYSTEM BLACK STEEL PIPE, DRY SYSTEM TO BE GALVANIZED

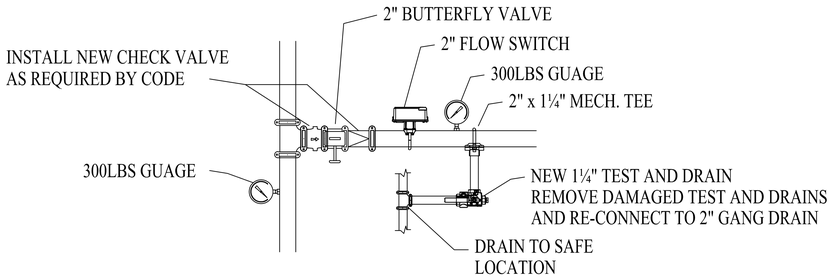
2"-6" SCHEDULE 10 GROOVED BLACK STEEL W/ GROOVED FITTINGS W/ WELDED OUTLETS

1" TO 2" BLAZEMASTER CPVC PIPE & FITTINGS

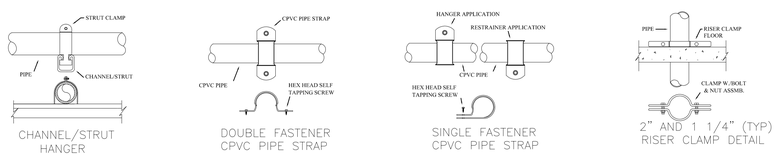
ALL DIMENSIONS & ELEVATIONS ARE CENTERLINE OF PIPE & STEEL UNLESS NOTED OTHERWISE

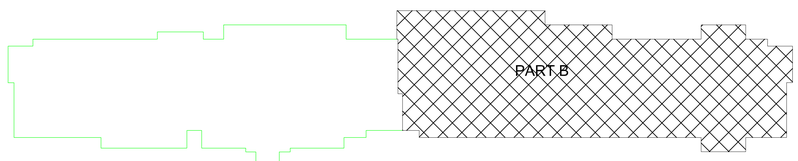
CONTRACTOR TO VERIFY

ALL PIPE LENGTHS SHOWN ARE CENTER TO CENTERS



	SPRINKLER LEGEND
——	WET CPVC SPRINKLER PIPE
– –	STEEL SPRINKLER PIPE
-----	STEEL STANDPIPE
①	HYDRAULIC NODE
○	SPRINKLER RISER/DROP NIPPLE
—/—	HANGER (SEE DETAIL SHEET 2)
	FIRE DEPARTMENT CONNECTION



(CPVC) HANGER DETAILS

NOT TO SCALE