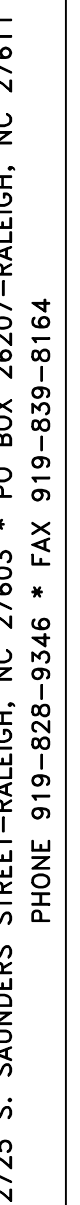


By Others	By CSCO	Item
X		City Water Connection
X		Valve House or Pit
	N/A	Connection to Plant Air
	N/A	Air Compressor
	N/A	Air Maintenance Device
X		Electric Alarm
X		Electric Wire
X		Hose Cabinet and Equipment
X		Painting
X		Sleeves
	N/A	Cutting Hole and Patch
	N/A	Trench and Backfill
X		Repeating
		Underground Piping

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THE HEALING PLACE OF NEW HANOVER COUNTY
SITE UTILITY PLAN
1000 MEDICAL CENTER DRIVE
WILMINGTON, NORTH CAROLINA

UNDERWRITERS:

INDEX NO.

REVISIONS:

DESIGN CRITERIA

SYSTEM TYPE	Wd
SYSTEM DESIGN	Calculated
DESIGN DENSITY	VARIES
MAX HEAD CVRG	VARIES
HOSE ALLOWANCE	VARIES

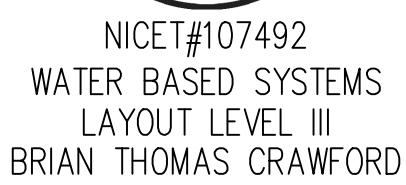
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CHECK BY:	DATE:
SCALE: AS NOTED	

CONTRACT NO: J181258

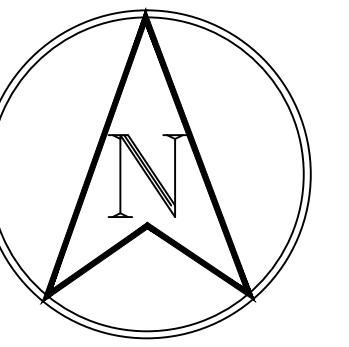
FILE NO:

DWG. NO: FP 2 OF 12

Furthered 8/25/2020



NICET#107492
WATER BASED SYSTEMS
LAYOUT LEVEL III
BRIAN THOMAS CRAWFORD



Important: In locations subject to freezing conditions, it is the owner's responsibility to provide adequate heat throughout wet pipe sprinkler system areas and enclosures for dry-pipe, deluge and other types of valves controlling water supplies to sprinkler systems

By Others	By CSCO	Item
X		City Water Connection
X		Valve House or Pit
N/A		Connection to Plant Air
N/A		Air Compressor
N/A		Air Maintenance Device
X		Electric Alarm
X		Electric Wire
X		Hose Cabinet and Equipment
X		Painting
X		Sleeves
X		Cutting Hole and Patch
N/A		Trench and Backfill
N/A		Repaving
X		Underground Piping

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THE HEALING PLACE OF NEW HANOVER COUNTY
ADMIN. BUILDING - PIPING PLAN
1000 MEDICAL CENTER DRIVE
WILMINGTON, NORTH CAROLINA

UNDERWRITERS:

INDEX NO.

REVISIONS:

DESIGN CRITERIA

SYSTEM TYPE	Wet
SYSTEM DESIGN	Calculated
DESIGN DENSITY	VARIABLE
MAX HEAD CVRG	VARIABLE
HOSE ALLOWANCE	VARIABLE

DRAWN BY: DJM
CHECK BY:
SCALE: AS NOTED

CONTRACT NO: JIB2028

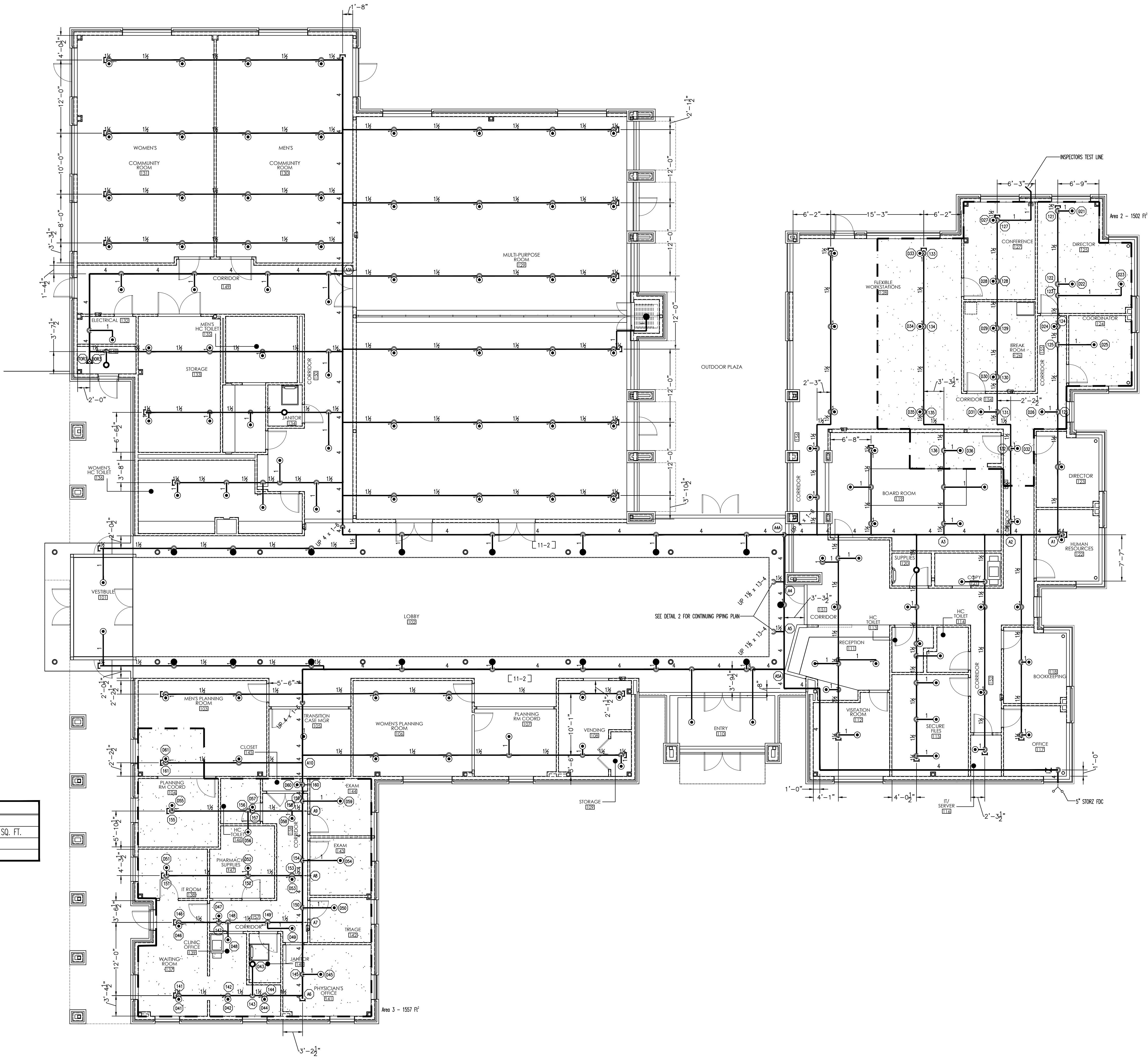
FILE NO:

DWG. NO: FP 3 OF 12

NICET#107492
WATER BASED SYSTEMS
LAYOUT LEVEL III
BRIAN THOMAS CRAWFORD
N.C License No. 29772 FS-I

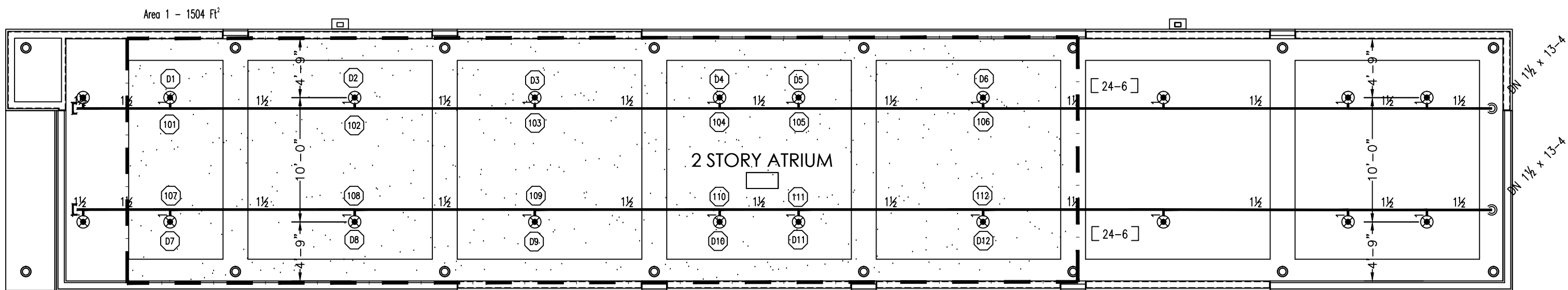


NICET#107492
WATER BASED SYSTEMS
LAYOUT LEVEL III
BRIAN THOMAS CRAWFORD



HYDRAULIC DESIGN CRITERIA		
AREA NUMBER: 2	CODE REF.: NFPA 13	HAZARD: LIGHT HAZARD
REMOTE AREA: 1500 SQFT	DENSITY: .10 GPM	AREA PER SPRINKLER: 225 SQ. FT.
SYSTEM TYPE: WET	INSIDE HOSE: 0	OUTSIDE HOSE: 100 GPM
TOTAL SYS. DEMAND: 408.191	PSI: 42.995	SAFETY MARGIN: 21.287

HYDRAULIC DESIGN CRITERIA		
AREA NUMBER: 3	CODE REF.: NFPA 13	HAZARD: LIGHT HAZARD
REMOTE AREA: 1500 SQFT	DENSITY: .10 GPM	AREA PER SPRINKLER: 225 SQ. FT.
SYSTEM TYPE: WET	INSIDE HOSE: 0	OUTSIDE HOSE: 100 GPM
TOTAL SYS. DEMAND: 548.240	PSI: 53.131	SAFETY MARGIN: 10.629



HYDRAULIC DESIGN CRITERIA		
AREA NUMBER: 1	CODE REF.: NFPA 13	HAZARD: LIGHT HAZARD
REMOTE AREA: 1500 SQFT	DENSITY: .10 GPM	AREA PER SPRINKLER: 225 SQ. FT.
SYSTEM TYPE: WET	INSIDE HOSE: 0	OUTSIDE HOSE: 100 GPM
TOTAL SYS. DEMAND: 292.855	PSI: 50.022	SAFETY MARGIN: 14.589

2 ADMIN. BUILDING - ATRIUM PIPING
1/8" = 1'-0"

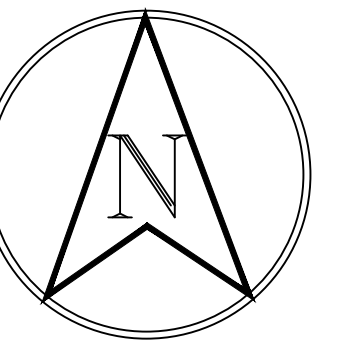
1 ADMIN. BUILDING - PIPING PLAN
1/8" = 1'-0"

HEAD LEGEND

SYM	QTY	NAME	MATERIAL	NEW	K	NPT	ORF	WGL	MODEL#	APPROX	MIN SPACING	MAX SPACING	RESPONSE	ESQUIT	SNL
8	NEW DRY PENDENTS	METAL	200	5.60	1/2"	1/2	VIKING	M	UL/FM/ULC/NEA	6'-0"	15'-0"	15'-0"	QUICK RESPONSE	N/A	VK 178
23	NEW UPRIGHTS	BRASS	155	5.60	1/2"	1/2	VIKING	M	UL/FM/ULC/NEA	6'-0"	15'-0"	15'-0"	QUICK RESPONSE	N/A	VK 3001
58	NEW RESIDENTIAL PENDENTS	WHITE	155	5.8	1/2"	1/2	VIKING	VK472	UL/FM/ULC/NEA	8'-0"	18'X18'	15'-0"	QUICK RESPONSE	WHITE PLATE	VK 472
51	NEW CONCEALED PENDENTS	BRASS	155	5.60	1/2"	1/2	VIKING	M	UL/FM/ULC/NEA	6'-0"	15'-0"	15'-0"	QUICK RESPONSE	WHITE PLATE	VK 462
466	NEW PENDENTS	WHITE	155	5.60	1/2"	1/2	VIKING	M	UL/FM/ULC/NEA	6'-0"	15'-0"	15'-0"	QUICK RESPONSE	RECESSED	VK 3021
32	NEW PENDENTS	WHITE	200	5.60	1/2"	1/2	VIKING	M	UL/FM/ULC/NEA	6'-0"	15'-0"	15'-0"	QUICK RESPONSE	RECESSED	VK 3021
TOTAL		638													

NOTE

1. ALL PIPE ELEVATIONS ARE 9'-8" AFF UNLESS OTHERWISE SPECIFIED.



Important: In locations subject to freezing conditions, it is the owner's responsibility to provide adequate heat throughout wet pipe sprinkler system areas and enclosures for dry-pipe, deluge and other types of valves controlling water supplies to sprinkler systems

By Others	By CSCO	Item
X		City Water Connection
X		Valve House or Pit
N/A		Connection to Plant Air
N/A		Air Compressor
N/A		Air Maintenance Device
X		Electric Alarm
X		Electric Wire
X		Hose Cabinet and Equipment
X		Painting
X		Sleeves
X		Cutting Hole and Patch
N/A		Trench and Backfill
N/A		Repaving
X		Underground Piping

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THE HEALING PLACE OF NEW HANOVER COUNTY
ADMIN. BUILDING - RCP
100 MEDICAL CENTER DRIVE
WILMINGTON, NORTH CAROLINA

UNDERWRITERS:

INDEX NO.

REVISIONS:

DESIGN CRITERIA

SYSTEM TYPE	Wet
SYSTEM DESIGN	Calculated
DESIGN DENSITY	VARIES
MAX HEAD CVRG	VARIES
HOSE ALLOWANCE	VARIES

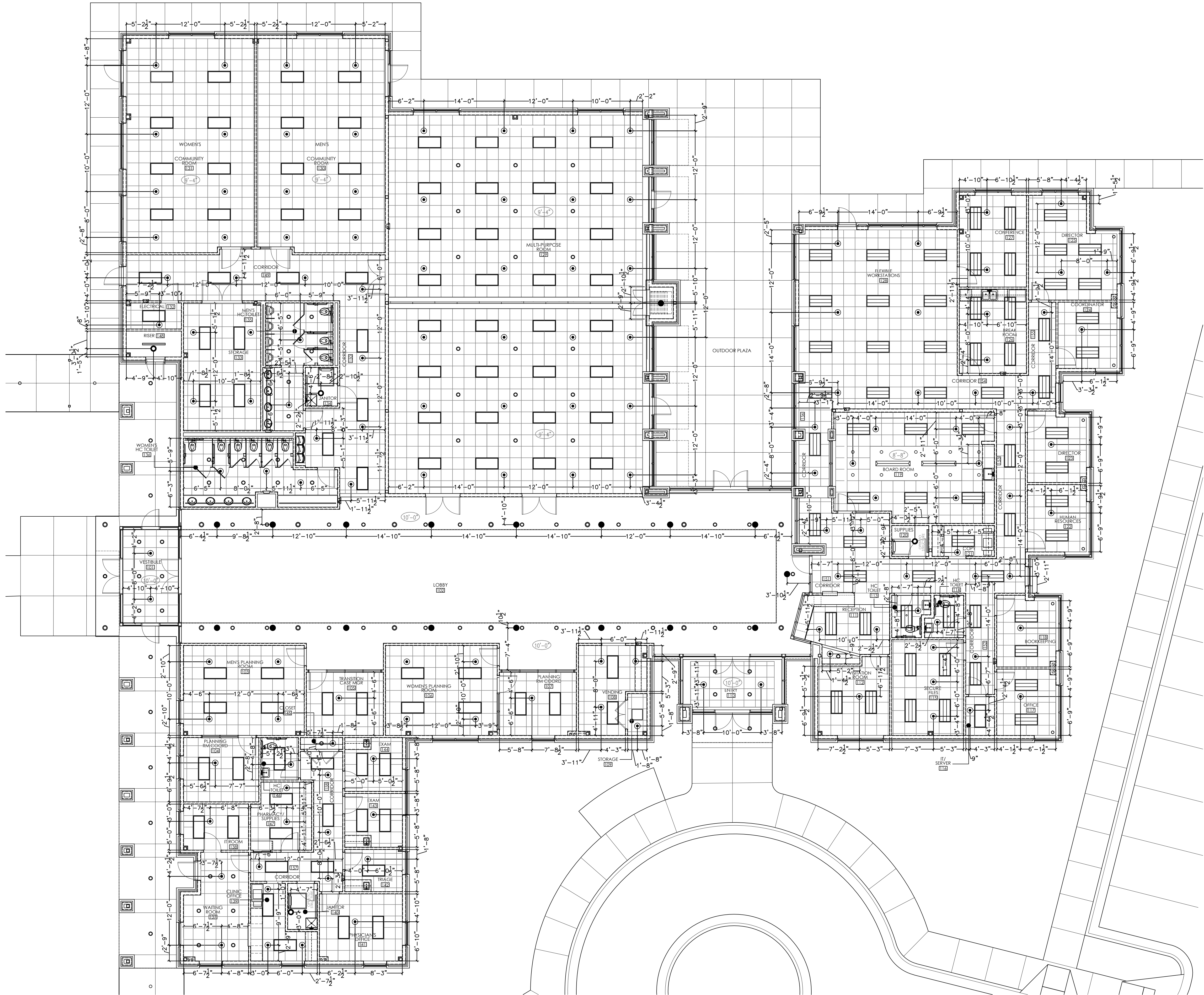
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CHECK BY:
SCALE: AS NOTED

DATE: 8/20/2020
DATE:
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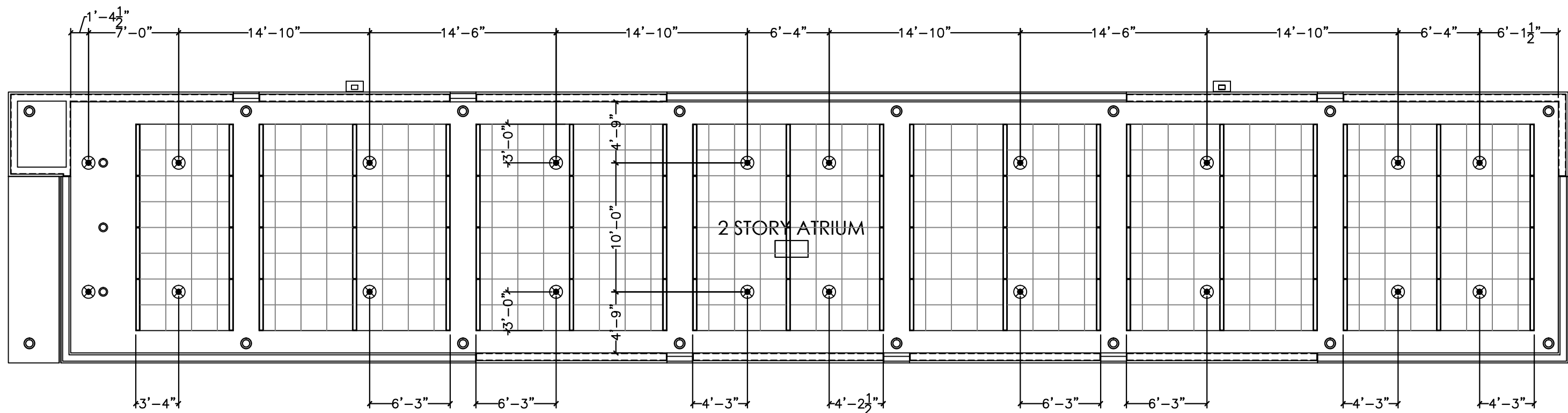
DWG. NO: FP 4 OF 12
N.C. License No. 29772 FS-I



NICET#107492
WATER BASED SYSTEMS
LAYOUT LEVEL III
BRIAN THOMAS CRAWFORD



1 ADMIN. BUILDING - RCP
FP 4 1/8" = 1'-0"



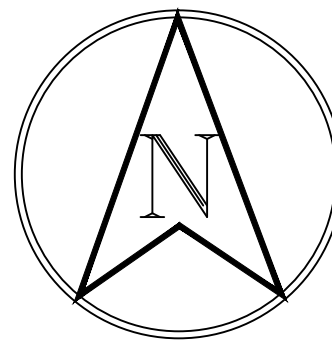
2 ADMIN. BUILDING - ATRIUM RCP
FP 4 1/8" = 1'-0"

HEAD LEGEND

SYM	CH	NAME	METAL	TEMP	T K	NPT	DRIF	INFS	MODEL	APPRAL	MIN SPACING	MAX SPACING	RESPONSE	ESCUIT	SIN
8		NEW DRY PENDENTS	CHROME	200	5.60	1/2"	1/2"	WIKING	M	UL/FM/ULC/NEA	6'-0"	15'-0"	QUICK RESPONSE	ADJ. STANDARD	WK 178
23		NEW UPRIGHTS	BRASS	155	5.60	1/2"	1/2"	WIKING	M	UL/FM/ULC/NEA	6'-0"	15'-0"	QUICK RESPONSE	N/A	WK 3001
59		NEW RESIDENTIAL PENDENTS	WHITE	155	5.8	1/2"	1/2"	WIKING	W472	UL/FM/ULC/NEA	6'-0"	18'X18'	QUICK RESPONSE	WHITE PLATE	WK 472
51		NEW CONCEALED PENDENTS	BRASS	155	5.60	1/2"	1/2"	WIKING	M	UL/FM/ULC/NEA	6'-0"	15'-0"	QUICK RESPONSE	WHITE PLATE	WK 465
466		NEW PENDENTS	WHITE	155	5.60	1/2"	1/2"	WIKING	M	UL/FM/ULC/NEA	6'-0"	15'-0"	QUICK RESPONSE	RECESSED	WK 3021
32		NEW PENDENTS	WHITE	200	5.60	1/2"	1/2"	WIKING	M	UL/FM/ULC/NEA	6'-0"	15'-0"	QUICK RESPONSE	RECESSED	WK 3021
TOTAL		638													

NOTE

1. ALL CEILING HEIGHTS ARE 9'-0" AFF UNLESS OTHERWISE SPECIFIED.



Important: In locations subject to freezing conditions, it is the owner's responsibility to provide adequate heat throughout wet pipe sprinkler system areas and enclosures for dry-pipe, deluge and other types of valves controlling water supplies to sprinkler systems

By Others	By CSCO	Item
X		City Water Connection
X		Valve House or Pit
N/A		Connection to Plant Air
N/A		Air Compressor
N/A		Air Maintenance Device
X		Electric Alarm
X		Electric Wire
X		Hose Cabinet and Equipment
X		Painting
X		Sleeves
X		Cutting Hole and Patch
N/A		Trench and Backfill
N/A		Re-paving
X		Underground Piping

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Crawford
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THE HEALING PLACE OF NEW HANOVER COUNTY
DINING, SHELTER & STORAGE BUILDING - PIPING PLAN
1000 MEDICAL CENTER DRIVE
WILMINGTON, NORTH CAROLINA

UNDERWRITERS:

INDEX NO.

REVISIONS:

DESIGN CRITERIA

SYSTEM TYPE	Wet
SYSTEM DESIGN	Calculated
DESIGN DENSITY	VARIABLE
MAX HEAD CVRG	VARIABLE
HOSE ALLOWANCE	VARIABLE

DRAWN BY: DJM
CHECK BY:
SCALE: AS NOTED

CONTRACT NO: JIB1208

FILE NO:

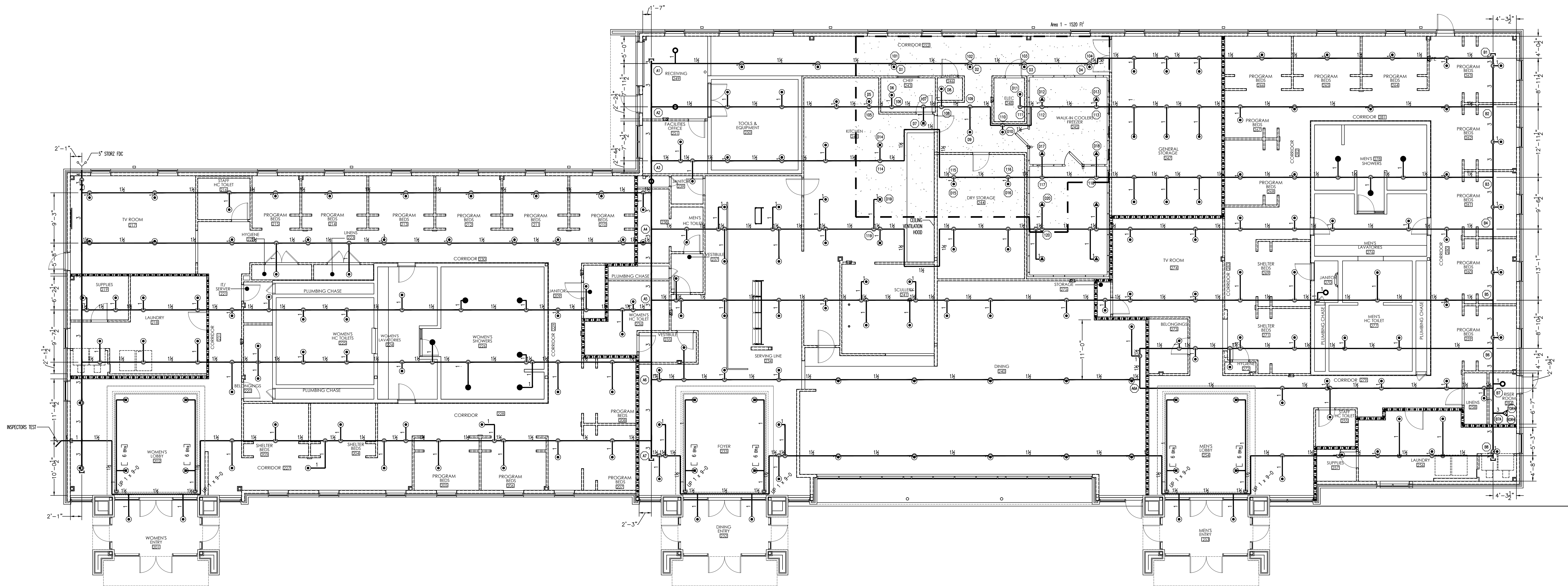
DWG. NO: FP 5 OF 12



NICET#107492
WATER BASED SYSTEMS
LAYOUT LEVEL III
BRIAN THOMAS CRAWFORD

DATE: 8/20/2020
DATE: 8/20/2020
N.C. License No. 29772 FS-I

HYDRAULIC DESIGN CRITERIA		
AREA NUMBER: 1	CODE REF.: NFPA 13	HAZARD: ORDINARY HAZARD (GROUP 1)
REMOTE AREA: 1500 SQFT	DENSITY: 15 GPM	AREA PER SPRINKLER: 130 SQ. FT.
SYSTEM TYPE: WET	INSIDE HOSE: 0	OUTSIDE HOSE: 250 GPM
TOTAL SYS. DEMAND: 587.021	PSI: 37.043	SAFETY MARGIN: 26.550



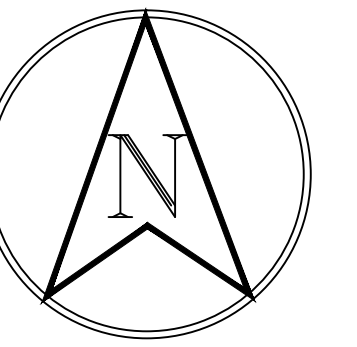
1 DINING, SHELTER & STORAGE BUILDING - PIPING PLAN
5 1/8" = 1'-0"

HEAD LEGEND

SYM	QTY	NAME	METAL	TEMP	K	NPT	ORF	MFG.	MODEL	APPROV.	MIN. SPACING	MAX. SPACING	RESPONSE	ESCUIT	SIN.
8	NEW DRY PENDENTS	CHROME	200	5.60	1/2"	1/2	Viking	M	UL/TM/ULC/MEA	6'-0"	15'-0"	15'-0"	QUICK RESPONSE	ADL. STANDARD	VK 178
23	NEW UPGRATS	BRASS	155	5.60	1/2"	1/2	Viking	M	UL/TM/ULC/MEA	6'-0"	15'-0"	15'-0"	QUICK RESPONSE	N/A	VK 3001
58	NEW RESIDENTIAL PENDENTS	WHITE	155	5.8	1/2"	1/2	Viking	M	UL/TM/ULC/MEA	6'-0"	15'-0"	15'-0"	QUICK RESPONSE	WHITE PLATE	VK 472
51	NEW CONCEALED PENDENTS	BRASS	155	5.60	1/2"	1/2	Viking	M	UL/TM/ULC/MEA	6'-0"	15'-0"	15'-0"	QUICK RESPONSE	WHITE PLATE	VK 462
466	NEW PENDENTS	WHITE	155	5.60	1/2"	1/2	Viking	M	UL/TM/ULC/MEA	6'-0"	15'-0"	15'-0"	QUICK RESPONSE	RECESSED	VK 3021
32	NEW PENDENTS	WHITE	200	5.60	1/2"	1/2	Viking	M	UL/TM/ULC/MEA	6'-0"	15'-0"	15'-0"	QUICK RESPONSE	RECESSED	VK 3021
TOTAL	638														

NOTE

1. ALL PIPE ELEVATIONS ARE 9'-8" AFF UNLESS OTHERWISE SPECIFIED.



Important: In locations subject to freezing conditions, it is the owner's responsibility to provide adequate heat throughout wet pipe sprinkler system areas and enclosures for dry-pipe, deluge and other types of valves controlling water supplies to sprinkler systems

By Others	By CSCO	Item
X		City Water Connection
X		Valve House or Pit
N/A		Connection to Plant Air
N/A		Air Compressor
N/A		Air Maintenance Device
X		Electric Alarm
X		Electric Wire
X		Hose Cabinet and Equipment
X		Painting
X		Sleeves
X		Cutting Hole and Patch
N/A		Trench and Backfill
N/A		Repeating
X		Underground Piping

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THE HEALING PLACE OF NEW HANOVER COUNTY
DINING, SHELTER & STORAGE BUILDING - RCP
1000 MEDICAL CENTER DRIVE
WILMINGTON, NORTH CAROLINA

UNDERWRITERS:

INDEX NO.

REVISIONS:

DESIGN CRITERIA

SYSTEM TYPE	Wet
SYSTEM DESIGN	Calculated
DESIGN DENSITY	VARIES
MAX HEAD CVRG	VARIES
HOSE ALLOWANCE	VARIES

DRAWN BY: DJM
CHECK BY:
SCALE: AS NOTED

CONTRACT NO: JIB1208

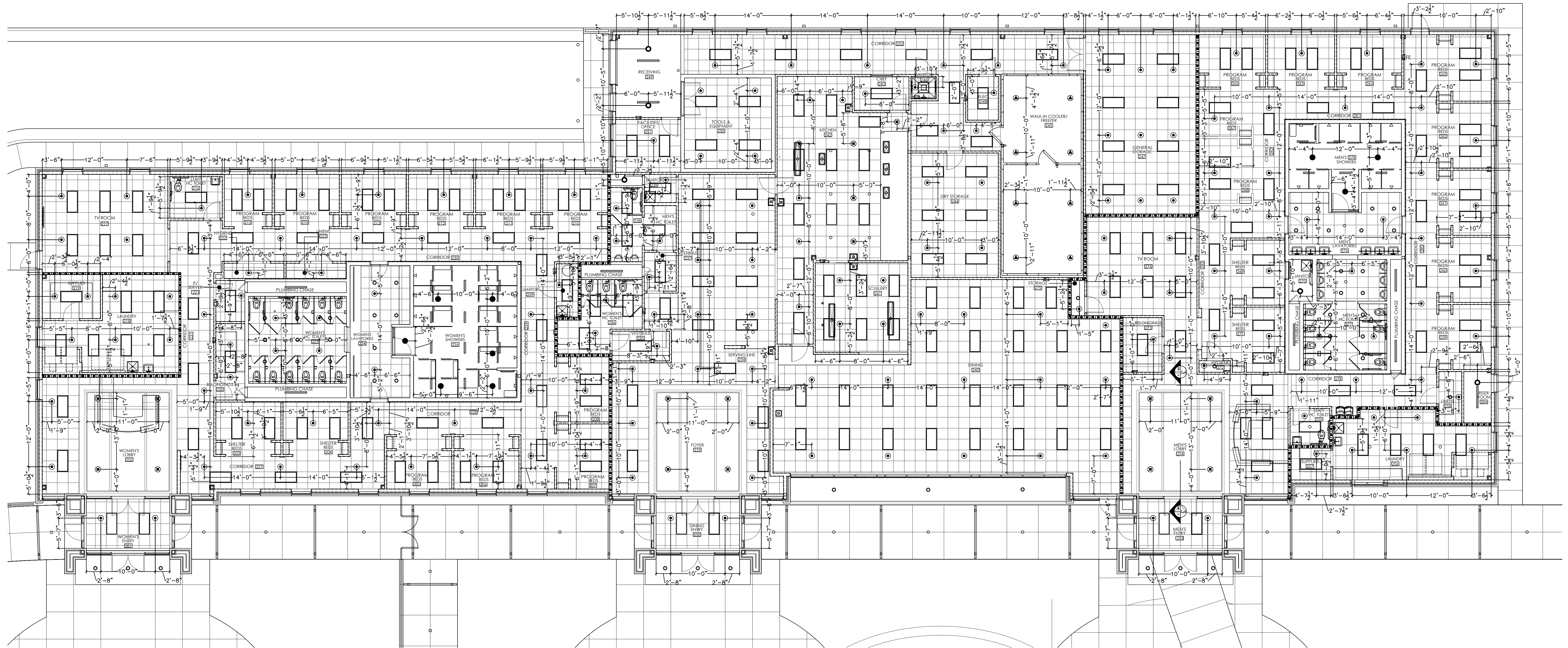
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DWG. NO: FP 6 OF 12



NICET#107492
WATER BASED SYSTEMS
LAYOUT LEVEL III
BRIAN THOMAS CRAWFORD

N.C. License No. 29772 FS-I



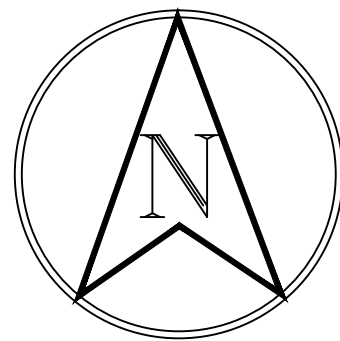
1 DINING, SHELTER & STORAGE BUILDING - RCP
FP 6 1/8" = 1'-0"

HEAD LEGEND

SYM.	QTY	NAME	METAL	TEMP	K	NPT	ORIF	MFG.	MODEL#	APPROV.	MIN SPACING	MAX SPACING	RESPONSE	ESCAP	SRL
●	8	NEW DRY PENDENTS	CHROME	200	5.60	1/2"	1/2	VIKING	M	UL/FM/ULC/NEA	6'-0"	15'-0"	QUICK RESPONSE	ADJ. STANDARD	VK 178
●	23	NEW UPRIGHTS	BRASS	155	5.60	1/2"	1/2	VIKING	M	UL/FM/ULC/NEA	6'-0"	15'-0"	QUICK RESPONSE	N/A	VK 3001
●	58	NEW RESIDENTIAL PENDENTS	WHITE	155	5.8	1/2"	1/2	VIKING	WK472	UL/FM/ULC/NEA	8'-0"	18'X18'	QUICK RESPONSE	WHITE PLATE	VK 472
●	51	NEW CONCEALED PENDENTS	BRASS	155	5.60	1/2"	1/2	VIKING	M	UL/FM/ULC/NEA	6'-0"	15'-0"	QUICK RESPONSE	WHITE PLATE	VK 462
●	466	NEW PENDENTS	WHITE	155	5.60	1/2"	1/2	VIKING	M	UL/FM/ULC/NEA	6'-0"	15'-0"	QUICK RESPONSE	RECESSED	VK 3021
●	32	NEW PENDENTS	WHITE	200	5.60	1/2"	1/2	VIKING	M	UL/FM/ULC/NEA	6'-0"	15'-0"	QUICK RESPONSE	RECESSED	VK 3021
TOTAL	638														

NOTE

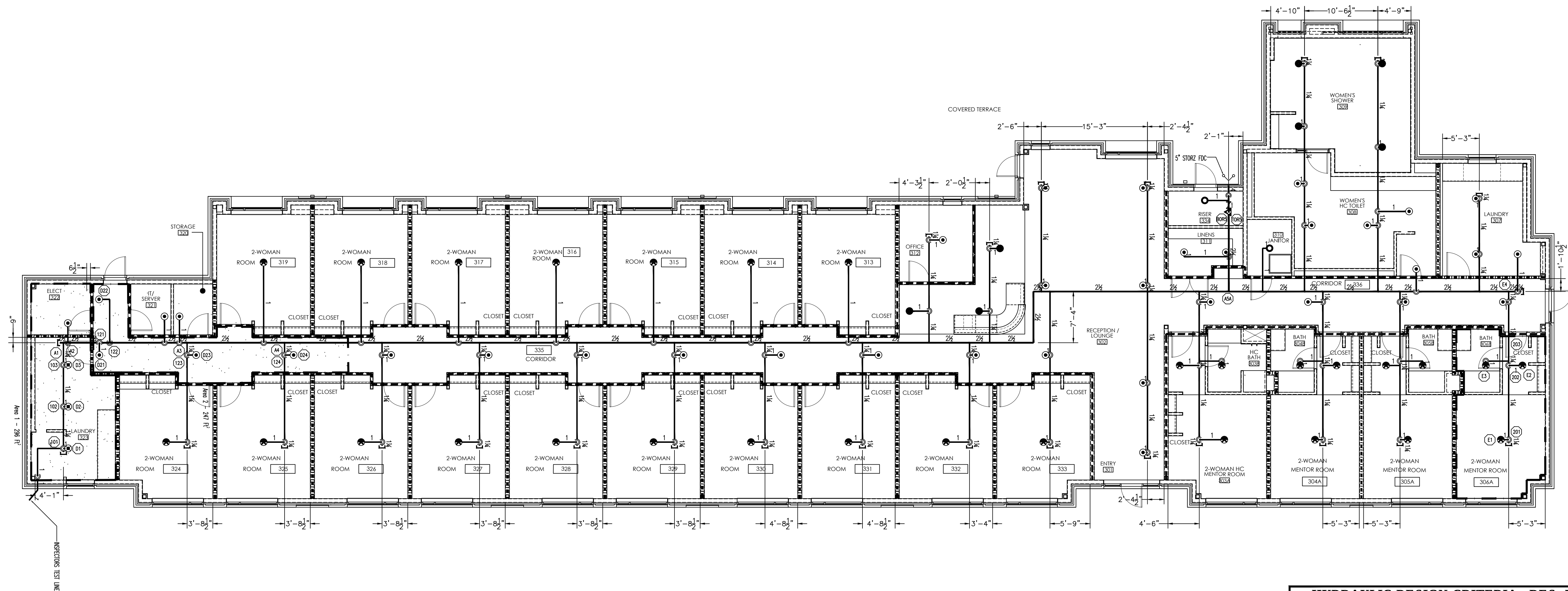
1. ALL CEILING HEIGHTS ARE 9'-0" AFF UNLESS OTHERWISE SPECIFIED.



Important: In locations subject to freezing conditions, it is the owner's responsibility to provide adequate heat throughout wet pipe sprinkler system areas and enclosures for dry-pipe, deluge and other types of valves controlling water supplies to sprinkler systems

By Others	By CSCO	Item
X		City Water Connection
X		Valve House or Pit
N/A		Connection to Plant Air
N/A		Air Compressor
N/A		Air Maintenance Device
X		Electric Alarm
X		Electric Wire
X		Hose Cabinet and Equipment
X		Painting
X		Sleeves
X		Cutting Hole and Patch
N/A		Trench and Backfill
N/A		Repaving
X		Underground Piping

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HYDRAULIC DESIGN CRITERIA - LAUNDRY			
AREA NUMBER: 1	CODE REF.: NFPA 13	HAZARD: ORDINARY HAZARD (GROUP 1)	
REMOTE AREA: 3-HEAD	DENSITY: .15 GPM	AREA PER SPRINKLER: 130 SQ. FT.	
SYSTEM TYPE: WET	INSIDE HOSE: 0	OUTSIDE HOSE: 250 GPM	
TOTAL SYS. DEMAND: 294.953	PSI: 21.584	SAFETY MARGIN: 43.022	

HYDRAULIC DESIGN CRITERIA - CORRIDOR			
AREA NUMBER: 2	CODE REF.: NFPA 13	HAZARD: LIGHT HAZARD	
REMOTE AREA: 4-HEAD CORR.	DENSITY: .10 GPM	AREA PER SPRINKLER: 225 SQ. FT.	
SYSTEM TYPE: WET	INSIDE HOSE: 0	OUTSIDE HOSE: 100 GPM	
TOTAL SYS. DEMAND: 190.925	PSI: 33.912	SAFETY MARGIN: 30.912	

1 WOMEN'S RESIDENTIAL BUILDING - PIPING PLAN
FP 7 1/8" = 1'-0"

HEAD LEGEND

SYM	QTY	NAME	MATL	TEMP	K	NPT	ORIF	MFG	MODEL#	APPROV	MIN SPACING	MAX SPACING	RESPONSE	ESCU	SRL
8	8	NEW DRY PENDENTS	CHROME	200	5.60	1/2"	1/2	WIKING	M	UL/FM/ULC/MEA	8'-0"	15'-0"	QUICK RESPONSE	ADJ. STANDARD	VK 178
23	23	NEW UPRIGHTS	BRASS	155	5.60	1/2"	1/2	WIKING	M	UL/FM/ULC/MEA	8'-0"	15'-0"	QUICK RESPONSE	N/A	VK 3001
58	58	NEW RESIDENTIAL PENDENTS	WHITE	155	5.8	1/2"	1/2	WIKING	WK472	UL/FM/ULC/MEA	8'-0"	18'x18'	QUICK RESPONSE	WHITE PLATE	VK 472
51	51	NEW CONCEALED PENDENTS	BRASS	155	5.60	1/2"	1/2	WIKING	M	UL/FM/ULC/MEA	8'-0"	15'-0"	QUICK RESPONSE	WHITE PLATE	VK 462
466	466	NEW PENDENTS	WHITE	155	5.60	1/2"	1/2	WIKING	M	UL/FM/ULC/MEA	8'-0"	15'-0"	QUICK RESPONSE	RECESSED	VK 3021
32	32	NEW PENDENTS	WHITE	200	5.60	1/2"	1/2	WIKING	M	UL/FM/ULC/MEA	8'-0"	15'-0"	QUICK RESPONSE	RECESSED	VK 3021
TOTAL	638														

HYDRAULIC DESIGN CRITERIA - RES. UNIT		
AREA NUMBER: 3	CODE REF.: NFPA 13	HAZARD: RESIDENTIAL
REMOTE AREA: 3 HEAD - UNIT	DENSITY: .05 GPM	AREA PER SPRINKLER: 324
SYSTEM TYPE: WET	INSIDE HOSE: 0	OUTSIDE HOSE: 100 GPM
TOTAL SYS. DEMAND: 151.487	PSI: 23.621	SAFETY MARGIN: 41.264

NOTE

1. ALL PIPE ELEVATIONS ARE 9'-8" AFF UNLESS OTHERWISE SPECIFIED.



Crawford
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THE HEALING PLACE OF NEW HANOVER COUNTY
WOMEN'S RESIDENTIAL BUILDING - PIPING PLAN
1000 MEDICAL CENTER DRIVE
WILMINGTON, NORTH CAROLINA

UNDERWRITERS:

INDEX NO.

REVISIONS:

DESIGN CRITERIA

SYSTEM TYPE	Wet
SYSTEM DESIGN	Calculated
DESIGN DENSITY	VARIABLE
MAX HEAD CVRG	VARIABLE
HOSE ALLOWANCE	VARIABLE

DRAWN BY: DJM	DATE: 8/20/2020
CHECK BY:	DATE:
SCALE: AS NOTED	

CONTRACT NO.: J181208

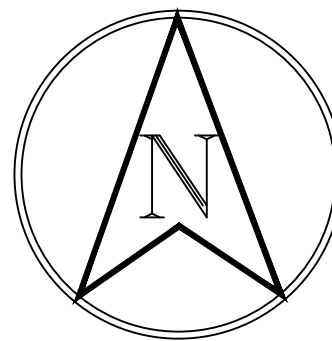
FILE NO.:

DWG. NO.: FP 7 OF 12



NICET#107492
WATER BASED SYSTEMS
LAYOUT LEVEL III
BRIAN THOMAS CRAWFORD

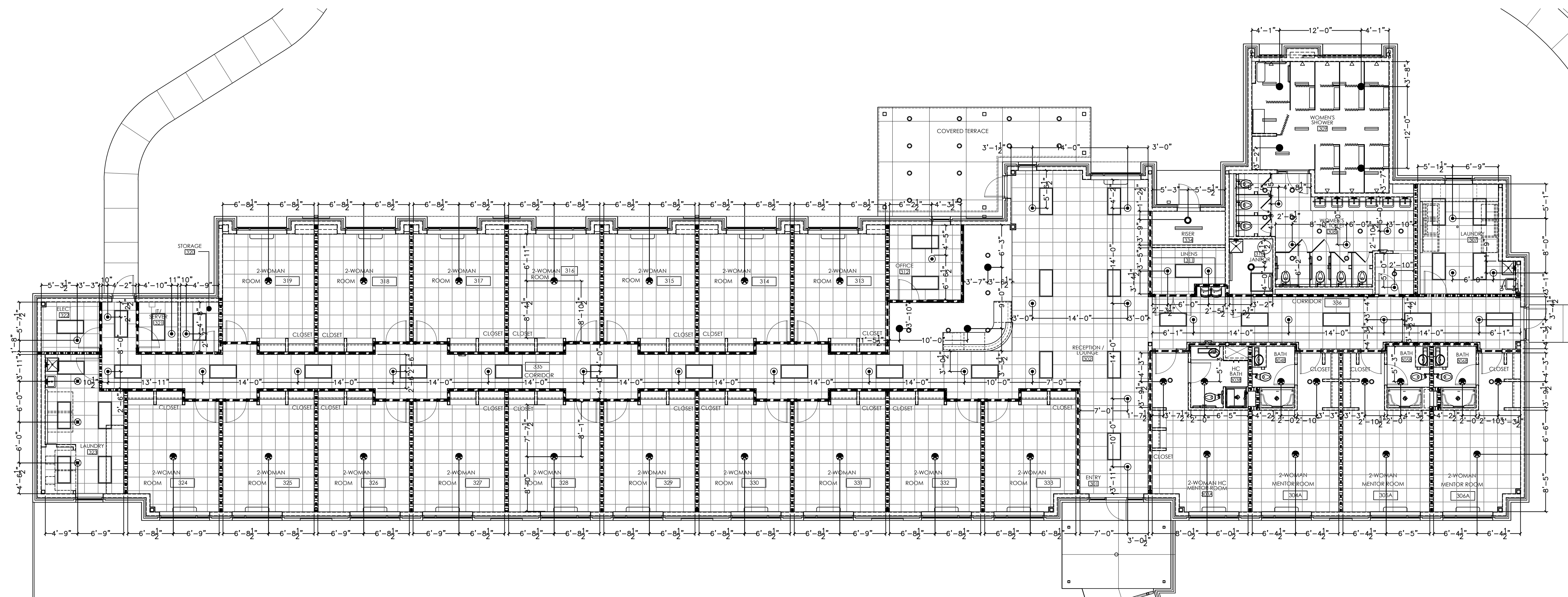
N.C. License No. 29772 FS-I



Important: In locations subject to freezing conditions, it is the owner's responsibility to provide adequate heat throughout wet pipe sprinkler system areas and enclosures for dry-pipe, deluge and other types of valves controlling water supplies to sprinkler systems

By Others	By CSCO	Item
X		City Water Connection
X		Valve House or Pit
	N/A	Connection to Plant Air
	N/A	Air Compressor
	N/A	Air Maintenance Device
X		Electric Alarm
X		Electric Wire
X		Hose Cabinet and Equipment
X		Painting
X		Sieves
X		Cutting Hole and Patch
N/A		Trench and Backfill
	N/A	Repaving
X		Underground Piping

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1 WOMEN'S RESIDENTIAL BUILDING - RCP
1/8" = 1'-0"

HEAD LEGEND

SYM	CON	NAME	METAL	TEMP	K	NPT	DRIP	MFG	MODEL	APPROV	MIN SPACING	MAX SPACING	RESPONSE	ESCUIT	SIN
▲	8	NEW DRY PENDENTS	CHROME	200	5.60	1/2"	1/2"	Viking	M	UL/FM/ULC/MEA	6'-0"	15'-0"	QUICK RESPONSE	AUL STANDARD	WK 178
●	23	NEW UPRIGHTS	BRASS	155	5.60	1/2"	1/2"	Viking	M	UL/FM/ULC/MEA	6'-0"	15'-0"	QUICK RESPONSE	N/A	WK 301
●	58	NEW RESIDENTIAL PENDENTS	WHITE	155	5.8	1/2"	1/2"	Viking	WK472	UL/FM/ULC/MEA	6'-0"	18'x18'	QUICK RESPONSE	WHITE PLATE	WK 472
●	51	NEW CONCEALED PENDENTS	BRASS	155	5.60	1/2"	1/2"	Viking	M	UL/FM/ULC/MEA	6'-0"	15'-0"	QUICK RESPONSE	WHITE PLATE	WK 462
●	466	NEW PENDENTS	WHITE	155	5.60	1/2"	1/2"	Viking	M	UL/FM/ULC/MEA	6'-0"	15'-0"	QUICK RESPONSE	RECESSED	WK 3021
●	32	NEW PENDENTS	WHITE	200	5.60	1/2"	1/2"	Viking	M	UL/FM/ULC/MEA	6'-0"	15'-0"	QUICK RESPONSE	RECESSED	WK 3021
TOTAL		638													

NOTE

- ALL CEILING HEIGHTS ARE 9'-0" AFF UNLESS OTHERWISE SPECIFIED.



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THE HEALING PLACE OF NEW HANOVER COUNTY
WOMEN'S RESIDENTIAL BUILDING - RCP
1000 MEDICAL CENTER DRIVE
WILMINGTON, NORTH CAROLINA

UNDERWRITERS:

INDEX NO.

REVISIONS:

DESIGN CRITERIA

SYSTEM TYPE	Wd
SYSTEM DESIGN	Calculated
DESIGN DENSITY	VARIES
MAX HEAD CVRG	VARIES
HOSE ALLOWANCE	VARIES

DRAWN BY: DJM
CHECK BY: DATE: 8/25/2020
SCALE: AS NOTED

CONTRACT NO: J181208

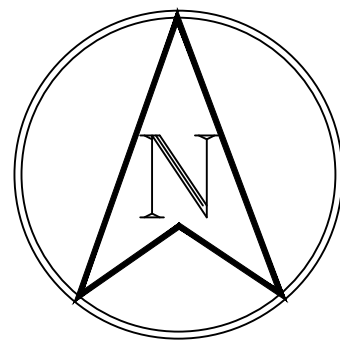
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DWG. NO: FP 8 OF 12



NICET#107492
WATER BASED SYSTEMS
LAYOUT LEVEL III
BRIAN THOMAS CRAWFORD

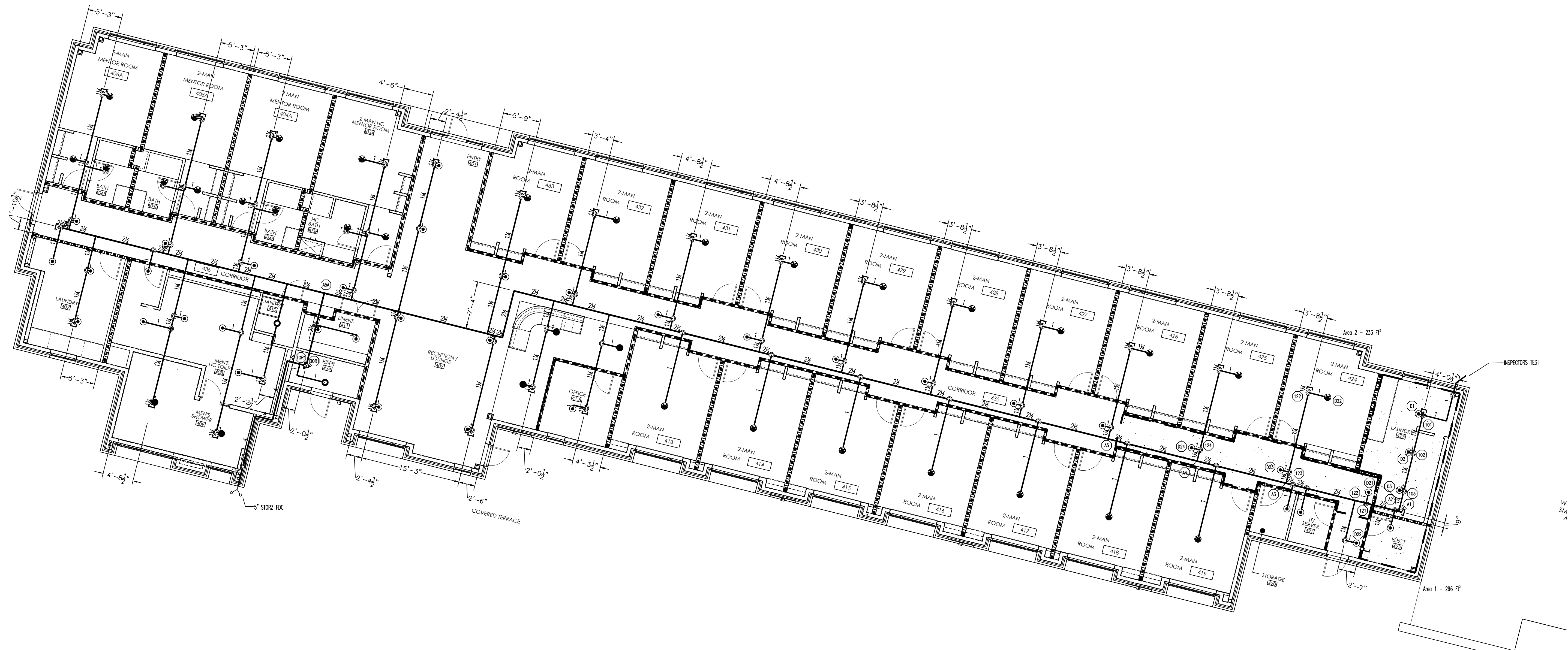
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N.C License No. 29772 FS-I



Important: In locations subject to freezing conditions, it is the owner's responsibility to provide adequate heat throughout wet pipe sprinkler system areas and enclosures for dry-pipe, deluge and other types of valves controlling water supplies to sprinkler systems

By Others	By CSCO	Item
X		City Water Connection
X		Valve House or Pit
N/A		Connection to Plant Air
N/A		Air Compressor
N/A		Air Maintenance Device
X		Electric Alarm
X		Electric Wire
X		Hose Cabinet and Equipment
X		Painting
X		Sleeves
X		Cutting Hole and Patch
N/A		Trench and Backfill
N/A		Repaving
X		Underground Piping

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1 MEN'S RESIDENTIAL BUILDING - PIPING PLAN
FP 9 1/8" = 1'-0"

HEAD LEGEND

SYM	CONT	NAME	METAL	TEMP	K	INPT	ORF	MFG	MODEL#	APPROX	MIN SPACING	MAX SPACING	RESPONSE	ESQUT	SIN.
8	NEW DRY PENDENTS	CHROME	200	5.60	1/2"	1/2	WIKING	M	UL/FM/ULC/MEA	6'-0"	15'-0"	15'-0"	QUICK RESPONSE	ADJ. STANDARD	VK 178
23	NEW UPRIGHTS	BRASS	155	5.60	1/2"	1/2	WIKING	M	UL/FM/ULC/MEA	6'-0"	15'-0"	15'-0"	QUICK RESPONSE	N/A	VK 3001
58	NEW RESIDENTIAL PENDENTS	WHITE	155	5.6	1/2"	1/2	WIKING	M472	UL/FM/ULC/MEA	6'-0"	15'-0"	15'-0"	QUICK RESPONSE	WHITE PLATE	VK 472
51	NEW CONCEALED PENDENTS	BRASS	155	5.60	1/2"	1/2	WIKING	M	UL/FM/ULC/MEA	6'-0"	15'-0"	15'-0"	QUICK RESPONSE	WHITE PLATE	VK 462
466	NEW PENDENTS	WHITE	155	5.60	1/2"	1/2	WIKING	M	UL/FM/ULC/MEA	6'-0"	15'-0"	15'-0"	QUICK RESPONSE	RECESSED	VK 3021
32	NEW PENDENTS	WHITE	200	5.60	1/2"	1/2	WIKING	M	UL/FM/ULC/MEA	6'-0"	15'-0"	15'-0"	QUICK RESPONSE	RECESSED	VK 3021
TOTAL	638														

NOTE

1. ALL PIPE ELEVATIONS ARE 9'-8" AFF UNLESS OTHERWISE SPECIFIED.

HYDRAULIC DESIGN CRITERIA - LAUNDRY		
AREA NUMBER: 1	CODE REF.: NFPA 13	HAZARD: ORDINARY HAZARD (GROUP 1)
REMOTE AREA: 3-HEAD	DENSITY: .15 GPM	AREA PER SPRINKLER: 130 SQ. FT.
SYSTEM TYPE: WET	INSIDE HOSE: 0	OUTSIDE HOSE: 250 GPM
TOTAL SYS. DEMAND: 294.953	PSI: 21.584	SAFETY MARGIN: 43.022

HYDRAULIC DESIGN CRITERIA - CORRIDOR		
AREA NUMBER: 2	CODE REF.: NFPA 13	HAZARD: LIGHT HAZARD
REMOTE AREA: 4-HEAD CORR.	DENSITY: .10 GPM	AREA PER SPRINKLER: 225 SQ. FT.
SYSTEM TYPE: WET	INSIDE HOSE: 0	OUTSIDE HOSE: 100 GPM
TOTAL SYS. DEMAND: 190.925	PSI: 33.912	SAFETY MARGIN: 30.912

DESIGN CRITERIA

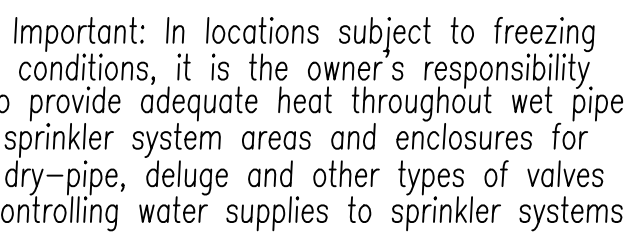
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SYSTEM DESIGN	Calculated
DESIGN DENSITY	VARIABLES
MAX HEAD CVRG	VARIABLES
HOSE ALLOWANCE	VARIABLES
DRAWN BY: DJM	DATE: 8/20/2022
CHECK BY:	DATE:
SCALE: AS NOTED	

CONTRACT NO.: JIB208	
FILE NO:	

DWG. NO: FP 9 OF 12
B. Thomas 8/25/2022
N.C. License No. 29772 FS-I



NICET#107492
WATER BASED SYSTEMS
LAYOUT LEVEL III
BRIAN THOMAS CRAWFORD



By Others	By CSCO	Item
X		City Water Connection
X		Valve House or Pit
	N/A	Connection to Plant Air
	N/A	Air Compressor
	N/A	Air Maintenance Device
X		Electric Alarm
X		Electric Wire
X		Hose Cabinet and Equipment
X		Painting
X		Sleeves
X		Cutting Hole and Patch
	N/A	Trench and Backfill
	N/A	Regrading
X		Underground Piping

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SYM	CNZ	NAME	METAL	TEMP	K	NPT	ORF	WFG	MODIFI	APPROX.	MIN SPACING	MAX SPACING	RESPONSE	ESCUIT	SIN.
(A)	8	NEW DRY PENDENTS	CHROME	200	5.60	1/2"	1/2	WING	M	UL/FM/ULC/NEA	6"-0"	15'-0"	QUICK RESPONSE	AJU - STANDARD	VK 178
(B)	23	NEW UPRIGHTS	BRASS	155	5.60	1/2"	1/2	WING	M	UL/FM/ULC/NEA	6'-0"	15'-0"	QUICK RESPONSE	N/A	VK 3001
(C)	58	NEW QUADRANTAL PENDENTS	WHITE	155	5.8	1/2"	1/2	WING	YK472	UL/FM/ULC/NEA	8'-0"	18'X18'	QUICK RESPONSE	WHITE PLATE	VK 472
(D)	51	NEW CONCEALED PENDENTS	BRASS	155	5.60	1/2"	1/2	WING	M	UL/FM/ULC/NEA	6'-0"	15'-0"	QUICK RESPONSE	WHITE PLATE	VK 462
(E)	466	NEW PENDENTS	WHITE	155	5.60	1/2"	1/2	WING	M	UL/FM/ULC/NEA	6'-0"	15'-0"	QUICK RESPONSE	RECESSED	VK 3201
(F)	32	NEW PENDENTS	WHITE	200	5.60	1/2"	1/2	WING	M	UL/FM/ULC/NEA	6'-0"	15'-0"	QUICK RESPONSE	RECESSED	VK 3021

1. ALL CEILING HEIGHTS ARE 9'-0" AFF UNLESS OTHERWISE SPECIFIED.

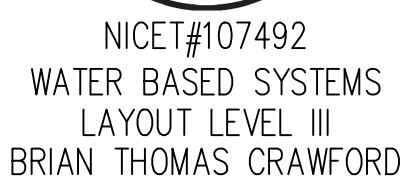
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SYSTEM DESIGN	Calculated
DESIGN DENSITY	VARIES
MAX HEAD CVRG	VARIES
HOSE ALLOWANCE	VARIES

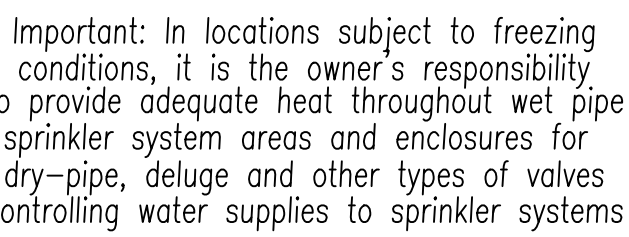
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CHECK BY:	DATE:
SCALE: AS NOTED	

CONTRACT NO: J181258

FILE NO:

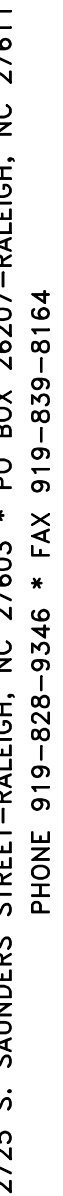
DWG. NO: FP 10 OF 12
Ruthland 8/25/2020
 N.C License No. 29772 FS-I





By Others	By CSCO	Item
X		City Water Connection
X		Valve House or Pit
	N/A	Connection to Plant Air
	N/A	Air Compressor
	N/A	Air Maintenance Device
X		Electric Alarm
X		Electric Wire
X		Hose Cabinet and Equipment
X		Painting
X		Sleeves
X		Cutting Hole and Patch
	N/A	Trench and Backfill
	N/A	Regrading
X		Underground Piping

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THE HEALING PLACE OF NEW HANOVER COUNTY
DETOX BUILDING - PIPING PLAN
1000 MEDICAL CENTER DRIVE
WILMINGTON, NORTH CAROLINA

UNDERWRITERS:

INDEX NO.

REVISIONS:

DESIGN CRITERIA

SYSTEM TYPE	Wd
SYSTEM DESIGN	Calculated
DESIGN DENSITY	VARIES
MAX HEAD CVRG	VARIES
HOSE ALLOWANCE	VARIES

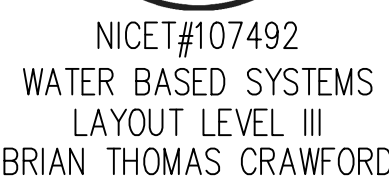
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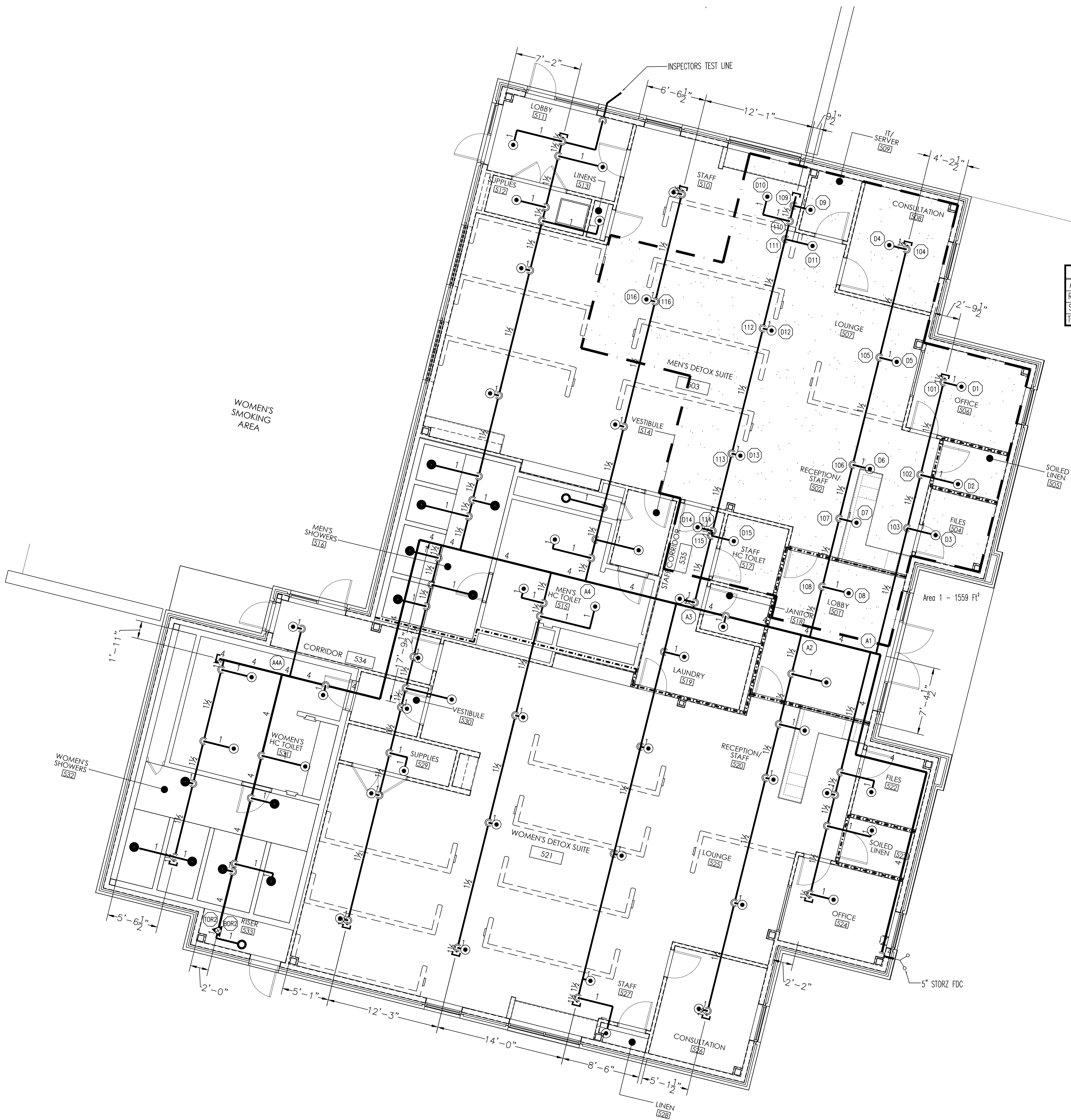
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DWG. NO: *FP 11 OF 12*

Ruthland 8/25/2020



WATER BASED SYSTEMS
LAYOUT LEVEL III
BRIAN THOMAS CRAWFORD



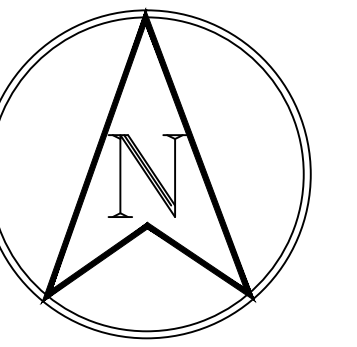
1 DETOX BUILDING - PIPING PLAN
FP 11 $\frac{3}{16}'' = 1'-0''$

HEAD LEGEND

[illegible]

NOTE

1. ALL PIPE ELEVATIONS ARE 9'-8" AFF UNLESS OTHERWISE SPECIFIED.



Important: In locations subject to freezing conditions, it is the owner's responsibility to provide adequate heat throughout wet pipe sprinkler system areas and enclosures for dry-pipe, deluge and other types of valves controlling water supplies to sprinkler systems

By Others	By CSCO	Item
X		City Water Connection
X		Valve House or Pit
N/A		Connection to Plant Air
N/A		Air Compressor
N/A		Air Maintenance Device
X		Electric Alarm
X		Electric Wire
X		Hose Cabinet and Equipment
X		Painting
X		Sleeves
X		Cutting Hole and Patch
N/A		Trench and Backfill
N/A		Re-paving
X		Underground Piping

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THE HEALING PLACE OF NEW HANOVER COUNTY
DETOX BUILDING - RCP
1000 MEDICAL CENTER DRIVE
WILMINGTON, NORTH CAROLINA

UNDERWRITERS:

INDEX NO.

REVISIONS:

DESIGN CRITERIA

SYSTEM TYPE	Wd
SYSTEM DESIGN	Calculated
DESIGN DENSITY	VARIES
MAX HEAD CVRG	VARIES
HOSE ALLOWANCE	VARIES

DRAWN BY: DJM
CHECK BY: DATE: 8/25/2020
SCALE: AS NOTED

CONTRACT NO.: JIB208
FILE NO:

DWG. NO.: FP 12 OF 12



NICET#107492
WATER BASED SYSTEMS
LAYOUT LEVEL III
BRIAN THOMAS CRAWFORD

N.C. License No. 29772 FS-I

