



SPRINKLER HEAD LEGEND:										TOTAL SPRINKLERS THIS SHEET	
SYMBOL	S/N	OFFICE	MT	K-CLASS	HEAD	TEMP	GLASS	TEMP	QUAL		
●	VX642	1/2"	5.0	Boss	White	150°					
	VX634	3/4"	5.0	Boss	White	150°					
○	VX630	1/2"	5.6	Boss							
	VX300	1/2"	5.6	Boss		200°					
	VX300	1/2"	5.6	Boss		200°					
▲	VX302	1/2"	5.6	Boss		200°					
●	VX630	1/2"	5.6	Boss		200°					

MC CARTHY APPROVAL	
A. Approved as noted for Architectural Review	☐
B. Review and Re-submit	☐
C. Rejected	☐
This review is for general conformance with Plans and Specifications only. Any deviations from same not clearly noted by the Preparer have not been reviewed. Review shall not constitute a complete check of detailed dimensions or count to serve to relieve the Preparer of contractual responsibility for any error or deviation from contract requirements. McCarthy By: _____ Date: _____ SHOP DRAWINGS REFERENCE NO. _____	

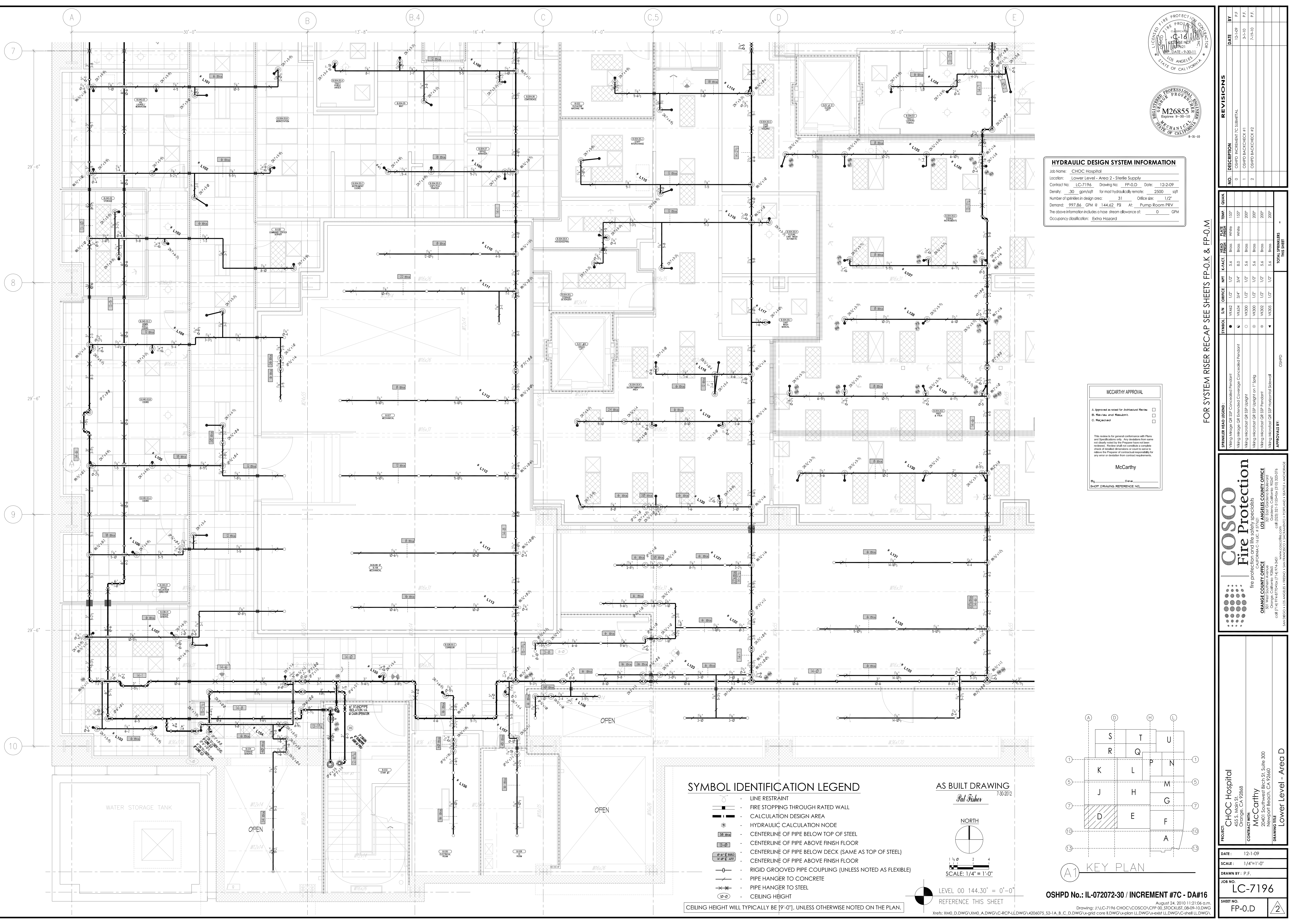
[illegible]

PROJECT	CHOC Hospital 455 S. Main St. Orange, CA 92668
CONTRACT WITH:	McCarthy 20401 Southwest Birch St, Suite 300 Newport Beach, CA 92660
DRAWING TITLE	Lower Level - Area A

DATE:	12-1-09	
SCALE:	1/4"=1'-0"	
DRAWN BY:	P.F.	
JOB NO.	LC-7196	
SHEET NO.	FP-0.A	

OSHPD N

August 24, 2010 11:21:06 a.m.
Drawing: J:\LC-7196 CHOC\COSCO\CFP 00 STOCKLIST 08-09-10.DWG



HYDRAULIC DESIGN SYSTEM INFORMATION									
Job Name: CHOC Hospital									
Location: Lower Level - Area 2 - Sterile Supply									
Contract No: LC-7196 Drawing No: FP-0.D Date: 12-2-09									
Density: .30 gpm/sq ft for most hydraulically remote: 2500 sq ft									
Number of sprinklers in design area: 31 Office size: 172'									
Demand: 997.84 GPM @ 144.62 PSI AL: Pump Room PRV									
The above information includes a hose stream allowance of: 0 GPM									
Occupancy classification: Extra Hazard									

MCCARTHY APPROVAL

A. Approved as noted for Architectural Review ☐

B. Review and Re-submit ☐

C. Rejected ☐

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McCarthy

By: _____ Date: _____

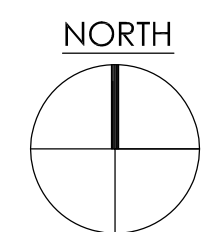
SHOP DRAWING REFERENCE NO. _____

SYMBOL IDENTIFICATION LEGEND

- LINE RESTRAINT
- FIRE STOPPING THROUGH RATED WALL
- CALCULATION DESIGN AREA
- HYDRAULIC CALCULATION NODE
- CENTERLINE OF PIPE BELOW TOP OF STEEL
- CENTERLINE OF PIPE ABOVE FINISH FLOOR
- CENTERLINE OF PIPE BELOW DECK (SAME AS TOP OF STEEL)
- CENTERLINE OF PIPE ABOVE FINISH FLOOR
- RIGID GROOVED PIPE COUPLING (UNLESS NOTED AS FLEXIBLE)
- PIPE HANGER TO CONCRETE
- PIPE HANGER TO STEEL
- CEILING HEIGHT

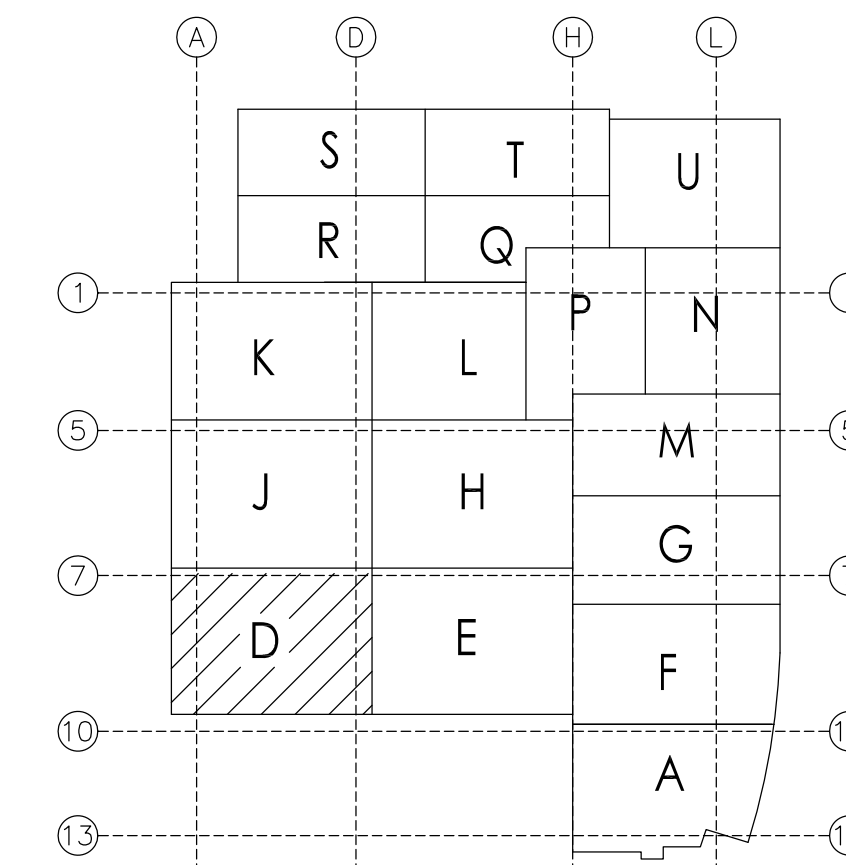
AS BUILT DRAWING

Pat Fisher 7-30-2012



LEVEL 00 144.30' = 0'-0"

REFERENCE THIS SHEET



KEY PLAN

OSHPD No.: IL-072072-30 / INCREMENT #7C - DA#16

August 24, 2010 11:21:06 a.m.

Drawing: J:\LC-7196\CHOC\COSCO\CP 00_STOCKLIST_08-09-10.DWG Xref: XM0.D, DWG, XM0.A, DWG, C-RCPL, LDWG, 4206075, S2-1A, B, C, D, DWG, V-grid core, LDWG, V-plan, LDWG, V-exit, LDWG, V-shell, LDWG, V



REGISTERED PROFESSIONAL ENGINEER
M26855
EXPIRES 9-30-10
MECHANICAL
STATE OF CALIFORNIA

FOR SYSTEM RISER RECAP SEE SHEETS FP-0.K & FP-0.M

REVISIONS					
NO.	DESCRIPTION	DATE	BY		
0	OSHPD INCREMENT TC SUBMITTAL	12-1-09	P.F.		
1	OSHPD BACKCHECK #1	3-1-10	P.F.		
2	OSHPD BACKCHECK #2	7-1-10	P.F.		
				</	

SPINNER HEAD LEGEND:		SYMBOL	SN	OFFICE	MT	K-FACT	HEAD	FINISH	WTP.	QUAN.
Wiring Midge QR SSP Concealed Pendant		●	VI642	1/2"	1/2"	5.6	Brass	White	150'	
Wiring Midge QR Extended Coverage Concealed Pendant		●	VI644	3/4"	1/2"	5.6	Brass	White	150'	
Wiring Microdot QR SSP (bright)		○	VI300	1/2"	1/2"	5.6	Brass	200'		
Wiring Microdot QR SSP (bright on 1" Spig)		○	VI300	1/2"	1/2"	5.6	Brass	200'		
Wiring Microdot QR SSP Pendant		○	VI302	1/2"	1/2"	5.6	Brass	200'		
Wiring Microdot QR SSP Recessed Sidelight		○	VI305	1/2"	1/2"	5.6	Brass	200'		
TOTAL SPINNERS THIS SHEET										

COSCO
Fire Protection

fire protection and life safety specialists

ORANGE COUNTY OFFICE
501 West Southern Avenue
San Diego • LOS ANGELES • HESKO • SAN FRANCISCO • SACRAMENTO • PORTLAND • SEATTLE • ANCHORAGE

LOS ANGELES COUNTY OFFICE
321 East Garfield Boulevard
Pasadena, CA 91101
call (714) 747-7000 or (714) 747-3451

PROJECT: CHOC Hospital
655 S. Main St.
Orange, CA 92668

CONTRACT WITH: McCarthy
20401 Southwest Birch St., Suite 300
Newport Beach, CA 92660

DRAWING TITLE: Lower Level - Area D

DATE: 12-1-09

SCALE: 1/4"=1'-0"

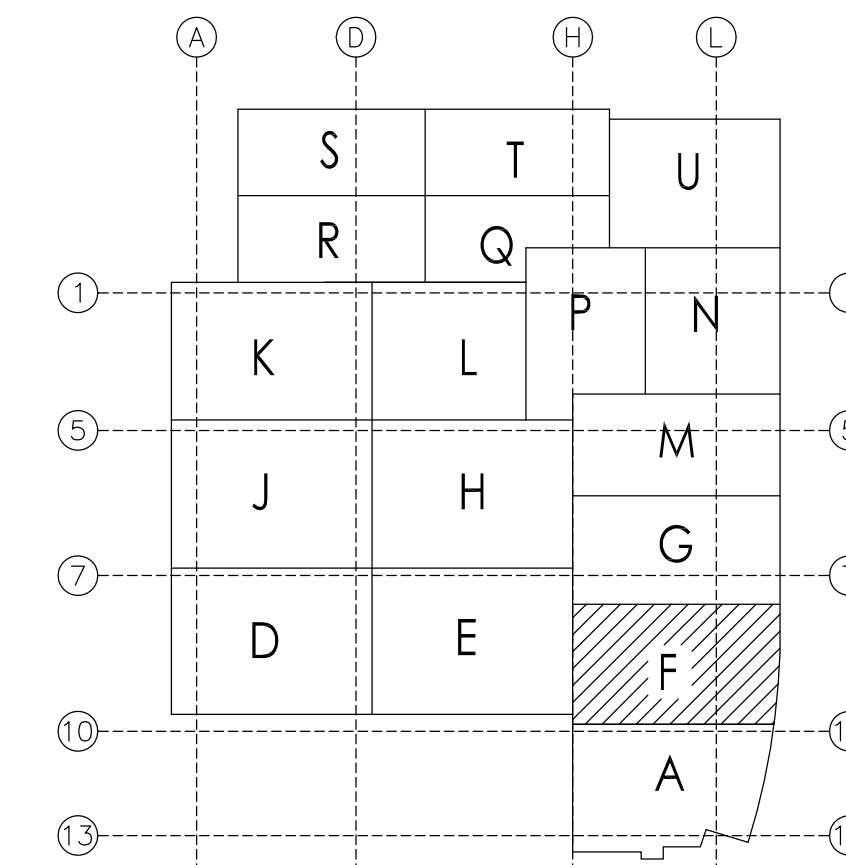
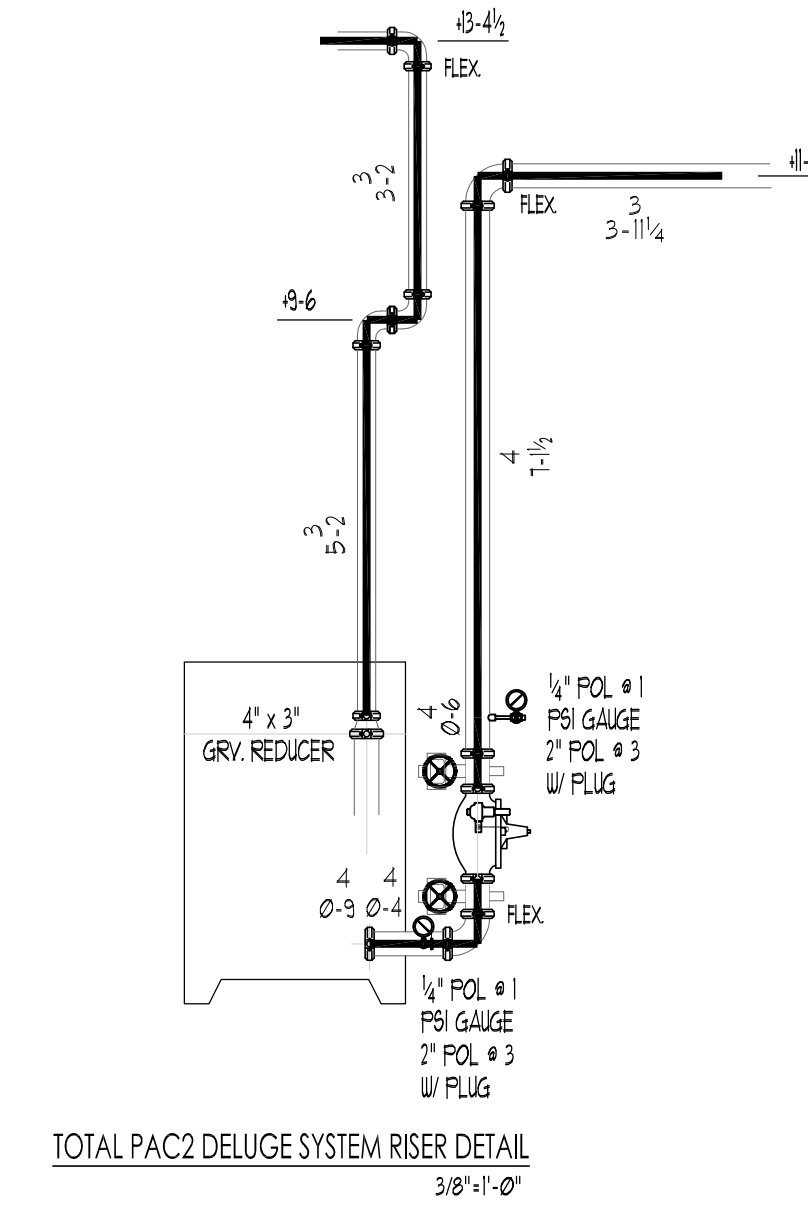
DRAWN BY: P.F.

JOB NO: LC-7196

SHEET NO: FP-0.D

2

DATE:	12-1-09	
SCALE:	1/4"=1'-0"	
DRAWN BY:	P.F.	
JOB NO.	LC-7196	
SHEET NO.	FP-0E	



REVISIONS			
NO.	DESCRIPTION	DATE	BY
0	OSHPD INCREMENT 7C SUBMITTAL	12-1-09	P.F.
1	OSHPD BACKCHECK #1	3-1-10	P.F.
2	OSHPD BACKCHECK #1	7-16-10	P.F.
	OSHPD CHANGE ORDER #152 - REVISIONS FOR ADDED DELUGE SYSTEM	12-2-11	P.F.

SPRINKLER HEAD LEGEND:					SYMBOL	S/N	OFFICE	MT	K-FACT	HEAD	GLASS	TEMP	QUAL
Wing Mgrs. QR SSP Concealed Pendant					●	VX642	1/2"	5.6	Boss	White	150°		
Wing Mgrs. QR Extended Concealed Pendant					●	VX634	3/4"	5.6	Boss	White	150°		
Wing Mgrs. QR SSP Upright					○	VX300	1/2"	5.6	Boss				
Wing Mgrs. QR SSP Upright on 1" Spig					○	VX300	1/2"	5.6	Boss		200°		
Wing Mgrs. QR SSP Pendant					●	VX302	1/2"	5.6	Boss		200°		
Wing Mgrs. QR SSP Horizontal					●	VX302	1/2"	5.6	Boss		200°		
Wing Mgrs. QR SSP Selfwalk					●	VX302	1/2"	5.6	Boss		200°		
APPROVALS BY:													TOTAL SPRINKLERS THIS SHEET =
OSHPD													

FOR SYSTEM RISER RECAP SEE SHEETS EP-0 K & EP-0 M

[illegible]

PROJECT CHOC Hospital 455 S. Main St. Orange, CA 92668	CONTRACT WITH: McCarthy 20401 Southwest Birch St, Suite 300 Newport Beach, CA 92660	DRAWING TITLE Lower Level - Area F
DATE: 12-1-09		
SCALE: 1/4"=1'-0"		
DRAWN BY: P.F.		
JOB NO. LC-7196		
SHEET NO. FP-0F		

HYDRAULIC DESIGN SYSTEM INFORMATION

Job Name: CHOC Hospital

Location: Lower Level - Area 1 - Mech. Room

Contract No: LC-7196 Drawing No: FP-0-F Date: 8-31-09

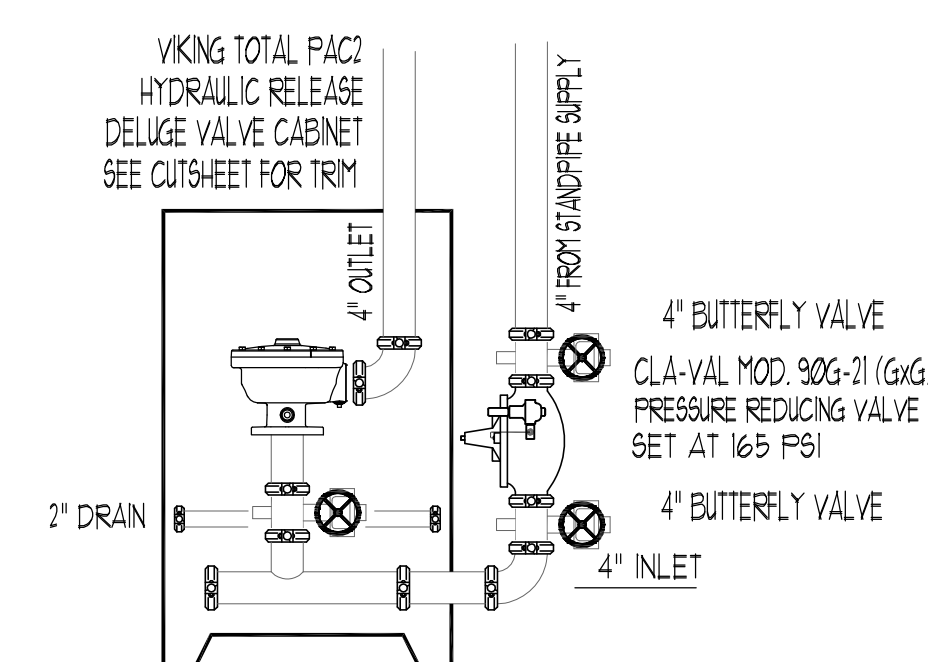
Quantity: 15 gpm/sqft for most hydraulically remote: 2500 sqft

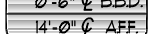
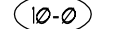
Number of sprinkles in design area: 24 Office size: 1/2"

Demand: 521.17 GPM @ 87.79 PSI at: Pump Room PRV

The above information includes a hose stream allowance of: 0 GPM

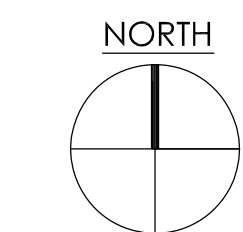
Occupancy classification: Ordinary Hazard Gr. I



- ## SYMBOL IDENTIFICATION LEGEND
- | | |
|---|--|
|  | • LINE RESTRAINT |
|  | • FIRE STOPPING THROUGH RATED WALL |
|  | • CALCULATION DESIGN AREA |
|  | • HYDRAULIC CALCULATION NODE |
|  | • CENTERLINE OF PIPE BELOW TOP OF STEEL |
|  | • CENTERLINE OF PIPE ABOVE FINISH FLOOR |
|  | • CENTERLINE OF PIPE BELOW DECK (SAME AS TOP OF STEEL) |
|  | • CENTERLINE OF PIPE ABOVE FINISH FLOOR |
|  | • RIGID GROOVED PIPE COUPLING (UNLESS NOTED AS FLEXIBLE) |
|  | • PIPE HANGER TO CONCRETE |
|  | • PIPE HANGER TO STEEL |
|  | • CEILING HEIGHT |

CEILING HEIGHT WILL TYPICALLY BE [9'-0"]. UNLESS OTHERWISE NOTED ON THE PLAN.

AS BUILT DRAWING
7-30-201



SCALE: 1/4" = 1'-0"

LEVEL 00 144.30' = 0'-0"

REFERENCE THIS SHEET

OSHPD No.: IL-072072-30 / INCREMENT #7C - DA#16

Drawing: J:\LC-7196 CHOC\COSCO\CFP 00_OSHPD_SMALL.DWG
 Xrefs: C-RCPP-LL.DWG\4206075 S2-1A B C D.DWG\X-arid core LL.DWG\X-plan LL.DWG\X-exist LL.DWG\X-shell LL.DWG





SYMBOL	S/N	OFFICE	MT	K/ACT	HEAD	SPIN	TRAP	QUAL
SPINNER HEAD LEGEND:								
⊕			1/2	5.6	Bores	writing		
⊙			1/2	5.6	Bores	white		
⊕			3/4	5.6	Bores	white		
⊙			1/2	5.6	Bores			
⊕			1/2	5.6	Bores			
⊙			1/2	5.6	Bores			
⊕			1/2	5.6	Bores			
⊙			1/2	5.6	Bores			
⊕			1/2	5.6	Bores			
⊙			1/2	5.6	Bores			
TOTAL SPINNERS:								
APPROVALS BY:								

MC CARTHY APPROVAL	
A. Approved as noted for Architectural Review	☐
B. Review and Re-submit	☐
C. Rejected	☐

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McCarthy

By: _____ Date: _____

SHOP DRAWINGS REFERENCE NO.

COSCO
Fire Protection
 fire protection and life safety specialists

ORANGE COUNTY, CALIFORNIA
 (714) 974-8770 • fax (714) 974-3461
 Orange, California 92665

LOS ANGELES COUNTY, OFFICE
 (323) 321-5185 • fax (310) 323-0076
 Glendale, California 91207

PROJECT:	CHOC Hospital 455 S. Main St. Orange, CA 92668
CONTRACT WITH:	McCarthy 20401 Southwest Birch St. Suite 300 Newport Beach, CA 92660
DRAWING TITLE:	

DATE: 12-1-09	
SCALE: 1/4"=1'-0"	
DRAWN BY: P.F.	
JOB NO. LC-7196	
SHEET NO. FP-0J	

CEILING HEIGHT WILL TYPICALLY BE [9'-0"], UNLESS OTHERWISE NOTED ON THE PLAN

Drawing: J:\LC-7196 CHOC\COSCO\CFP 00_STOCKLIST_08-09-10.DWG
Xrefs: XM0 D.DWG\XM0 A.DWG\C-RCP-LL.DWG\4206075 S2-1A B C D.DWG\x-grid core LL.DWG\x-plan LL.DWG\x-exist LL.DWG\C-shell LL.DWG



OSHPD No.: IL-072072-30 / INCREMENT #7C - DA#16

[illegible]

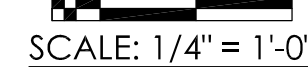
MC CARTHY APPROVAL	
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B. Review and Re-submit	☐
C. Rejected	☐
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PROJECT:	CHOC Hospital 455 S. Main St. Orange, CA 92668
CONTRACT WITH:	McCarthy 20401 Southwest Birch St. Suite 300 Newport Beach, CA 92660
DRAWING TITLE:	CHOC Level 1

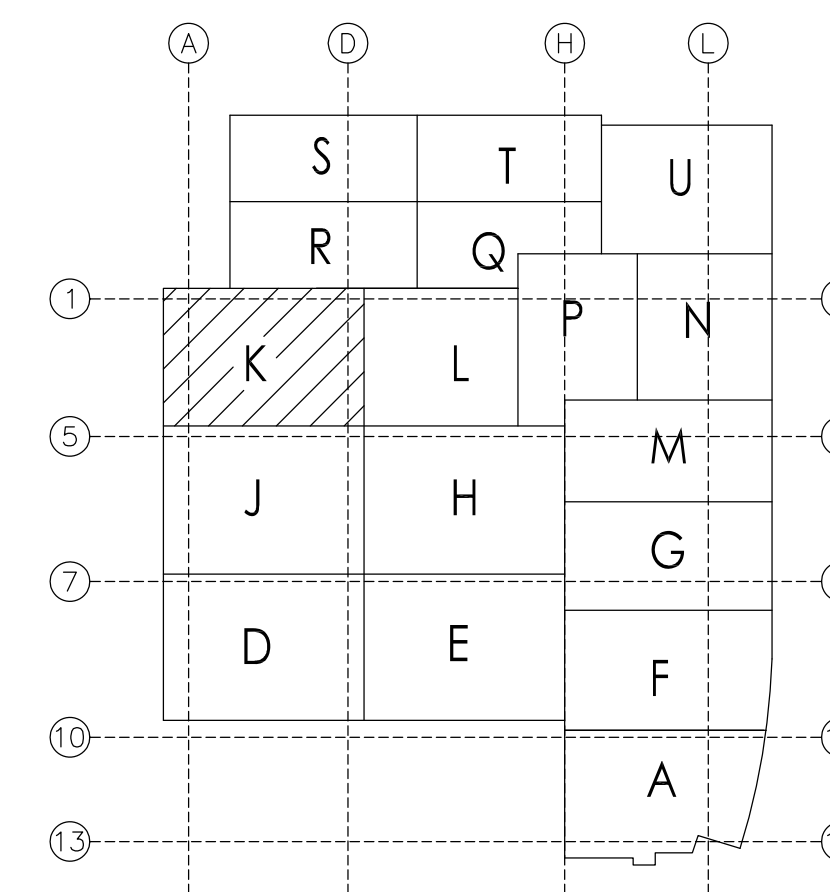
DATE :	12-1-09
SCALE :	1/4"=1'-0"
DRAWN BY :	P.F.
JOB NO.	LC-7196
SHEET NO.	FP-OK

-  - LINE RESTRAINT
-  - FIRE STOPPING THROUGH RATED WALL
-  - CALCULATION DESIGN AREA
-  - HYDRAULIC CALCULATION NODE
-  - CENTERLINE OF PIPE BELOW TOP OF STEEL
-  - CENTERLINE OF PIPE ABOVE FINISH FLOOR
-  - CENTERLINE OF PIPE BELOW DECK (SAME AS TOP OF STEEL)
-  - CENTERLINE OF PIPE ABOVE FINISH FLOOR
-  - RIGID GROOVED PIPE COUPLING (UNLESS NOTED AS FLEXIBLE)
-  - PIPE HANGER TO CONCRETE
-  - PIPE HANGER TO STEEL
-  - CEILING HEIGHT

Pat. Fisher

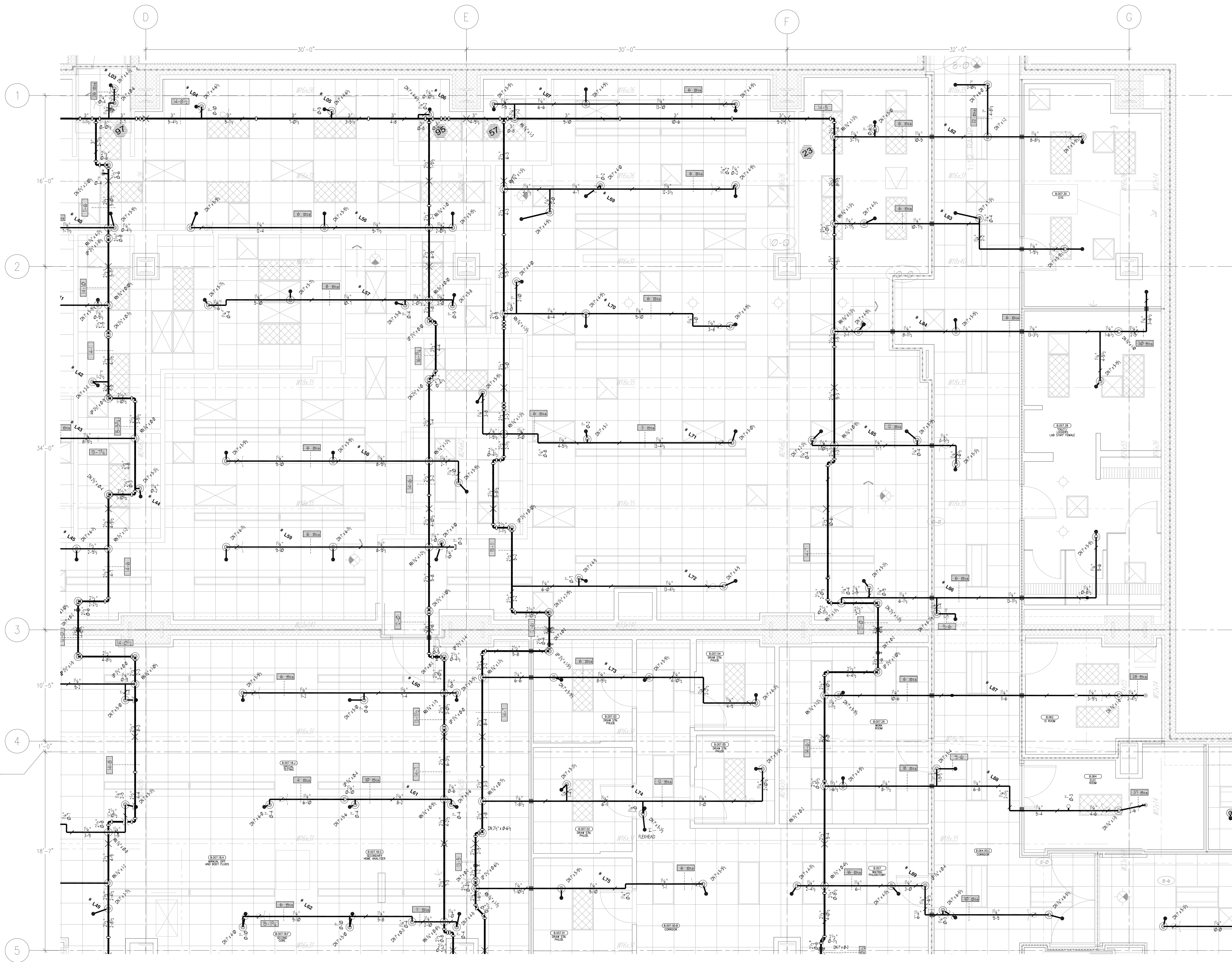


OSHPD No.: IL-072072-30 / INCREMENT #7C - DA#16



A1 KEY PLAN

OSHPD No.: IL-072072-30 / INCREMENT #7C - DA#16



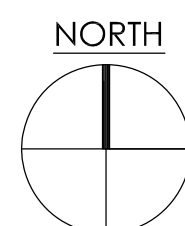
SYMBOL IDENTIFICATION LEGEND

- LINE RESTRAINT
- FIRE STOPPING THROUGH RATED WALL
- CALCULATION DESIGN AREA
- HYDRAULIC CALCULATION NODE
- CENTERLINE OF PIPE BELOW TOP OF STEEL
- CENTERLINE OF PIPE ABOVE FINISH FLOOR
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- CENTERLINE OF PIPE ABOVE FINISH FLOOR
- RIGID GROOVED PIPE COUPLING (UNLESS NOTED AS FLEXIBLE)
- PIPE HANGER TO CONCRETE
- PIPE HANGER TO STEEL
- CEILING HEIGHT

CEILING HEIGHT WILL TYPICALLY BE [9'-0"], UNLESS OTHERWISE NOTED ON THE PLAN.

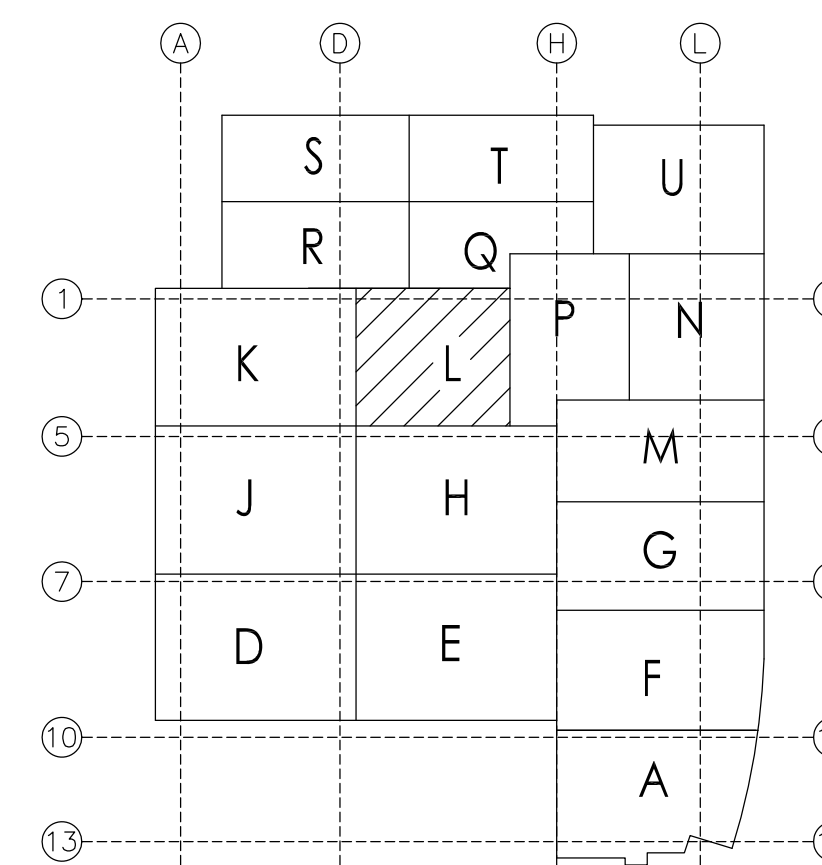
AS BUILT DRAWING

Pat Fisher 7-30-2012



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

LEVEL 00 144.30' = 0'-0"
REFERENCE THIS SHEET



KEY PLAN

A1

OSHPD No.: IL-072072-30 / INCREMENT #7C - DA#16

August 24, 2010 11:21:06 a.m.

Drawing: J:\LC-7196 CHOC\COSCO\CP 00_STOCKLIST_08-09-10.DWG

Xrefs: XM0_D.DWG;XM0_A.DWG;C-RCP-LL.DWG;4205075_52-1-A_8_C.DWG;V-grid core LL.DWG;V-plan LL.DWG;V-exit LL.DWG;V-shell LL.DWG;



FOR SYSTEM RISER RECAP SEE SHEETS FP-0.K & FP-0.M

MCCARTHY APPROVAL

- A. Approved as noted for Architectural Review
- B. Review and Revisit
- C. Rejected

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McCarthy

By: Date: SHOP DRAWING REFERENCE NO.

SPINNER HEAD LEGEND:

- Wing Midge QR SSP Concealed Pendant
- Wing Midge QR Extended Coverage Concealed Pendant
- Wing Microdot QR SSP Upright
- Wing Microdot QR SSP Upright on 1" Spig
- Wing Microdot QR SSP Pendant
- Wing Microdot QR SSP Recessed Sidelight

APPROVALS BY:

OSHPD

COSCO
Fire Protection
fire protection and life safety specialists
ORANGE COUNTY OFFICE
501 West Southern Avenue
Newport Beach, CA 92660
call (714) 747-7000 (714) 747-3451
LOS ANGELES COUNTY OFFICE
321 East Colorado Boulevard
Anaheim, CA 92806
call (714) 747-7000 (714) 747-3451
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PROJECT: CHOC Hospital
655 S. Main St.
Orange, CA 92668
CONTRACT WITH: McCarthy
20401 Southwest Birch St, Suite 300
Newport Beach, CA 92660
DRAWING TITLE: Lower Level - Area L

DATE: 12-1-09
SCALE: 1/4"=1'-0"
DRAWN BY: P.F.
JOB NO: LC-7196
SHEET NO: FP-0L

