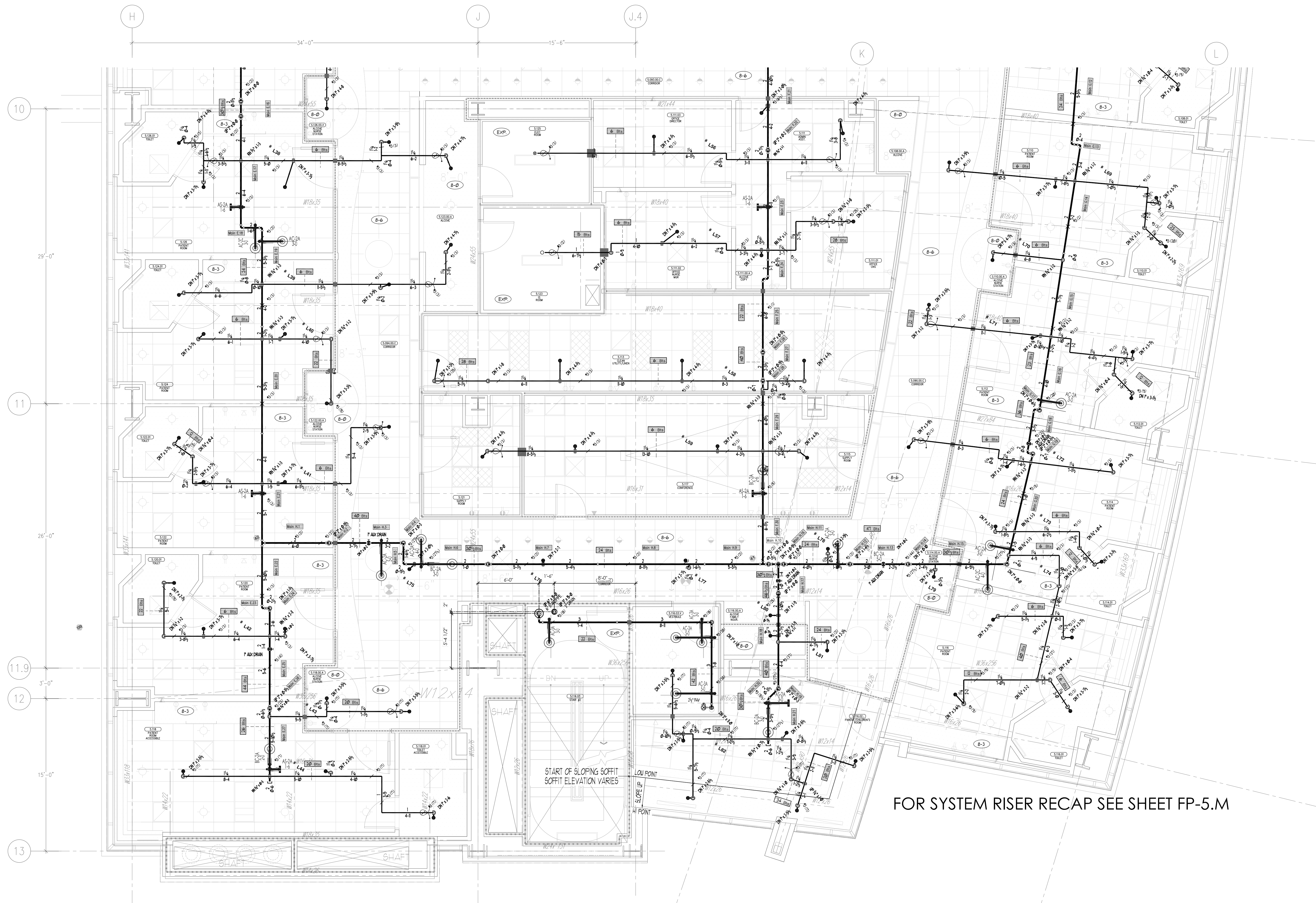
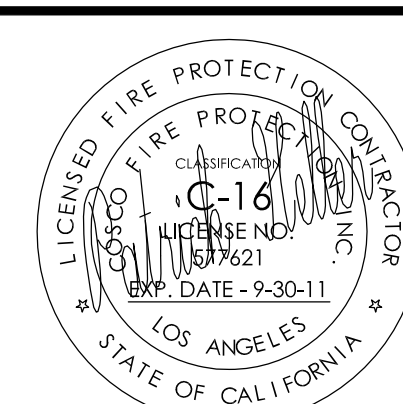




MCCARTHY APPROVAL

A. Approved as Shown for Construction Review
B. Review and Revisions
C. Rejected

This review is for general conformance with Plans and Specifications only. Any deviation from same not clearly noted by the Engineer has not been reviewed. Review shall not constitute a complete check of detailed dimensions or parts to serve to release the Engineer of contractual responsibility for any error or omission from contract requirements.

McCarthy

By: _____ Date: _____
SHOP DRAWING REFERENCE NO. _____

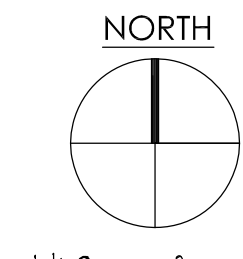
NOTE: AUXILIARY DRAINS PER 2002 NFPA 13 SEC. 8.15.2.5

FOR SYSTEM RISER RECAP SEE SHEET FP-5.M

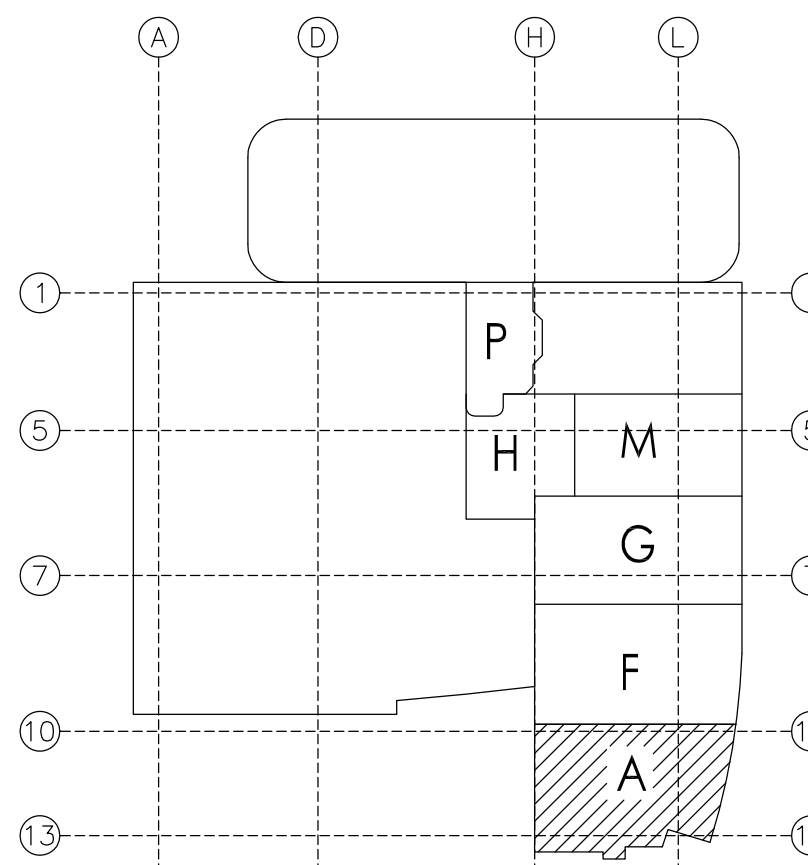
AS BUILT DRAWING
9-1-2011
Pat Fisher

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.



LEVEL 05 224.30' = 0'-0"
REFERENCE THIS SHEET



KEY PLAN

NO.	DESCRIPTION	DATE	BY
0	CHOC BACKCHECK #1	12-1-09	P.F.
1	CHOC BACKCHECK #2	3-1-10	P.F.
2	CHOC BACKCHECK #3	7-15-10	P.F.

SYMBOL	SN	OFFICE	WFT	K-FACT	HEAD	WTP	WTP
Wing Midge QR SSP Concealed Pendant	WV462	1/2"	1/2"	5.6	Brass	150"	150"
Wing Midge QR Extended Coverage Concealed Pendant	WV634	3/4"	3/4"	8.0	Brass	150"	150"
Wing Microdot QR SSP Upright	WV300	1/2"	1/2"	5.6	Brass	200"	200"
Wing Microdot QR SSP Upright on 1" Spig	WV302	1/2"	1/2"	5.6	Brass	200"	200"
Wing Microdot QR SSP Pendant	WV303	1/2"	1/2"	5.6	Brass	200"	200"
Wing Microdot QR SSP Recessed Sidelight	WV305	1/2"	1/2"	5.6	Brass	200"	200"

APPROVALS BY: _____

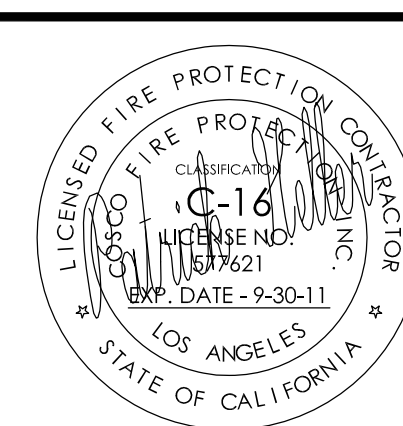
COSCO Fire Protection
FIRE PROTECTION AND LIFE SAFETY SPECIALISTS
LOS ANGELES COUNTY OFFICE
321 East Colorado Boulevard
San Diego • LOS ANGELES • FRESNO • SAN FRANCISCO • SACRAMENTO • PORTLAND • SEATTLE • ANCHORAGE
call (619) 478-7070 • fax (619) 478-3451

CHOC Hospital
655 S. Main St.
Orange, CA 92668
CONTRACT WITH: McCarthy
20401 Southwest Birch St., Suite 300
Newport Beach, CA 92660
DRAWING TITLE: Level 5 - Area A

DATE: 12-1-09
SCALE: 1/4"=1'-0"
DRAWN BY: P.F.
JOB NO.: LC-7196
SHEET NO.: FP-5.A

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

September 01, 2011 2:30:31 p.m.
Drawing: J:\LC-7196 CHOC\COSCO\CFP 05 LATEST.DWG
Xrefs: 4206075_S2-A_D.DWG\X-ref grid core 5.DWG\Y-A4.5A.DWG\C-shell L3.DWG\C-RCP-S-NEW.DWG\X-plan 5-NEW.DWG



REVISIONS					
NO.	DESCRIPTION	DATE	BY		
0	CSPD IN-CHARGE TC SUBMITAL	7-25-09	P.F.		
1	CSPD BACK-CHECK #1	5-1-10	P.F.		
2	CSPD BACK-CHECK #2	7-19-10	P.F.		

SPRINKLER HEAD LEGEND:		SYMBOL	S/N	ORIFICE	K/FACT	HEAD PRESS	PAUSE PRESS	TEMP.	QUANT.
•	Vitling Minge OR SP Concealed Pendant	W46242	1/2"	5.6	Bross	White	150°		
•	Vitling Minge OR Extended Coverage Concealed Pendant	W6524	3/4"	8.0	Bross	White	150°		
•	Vitling Minge OR SP Upright	W4600	1/2"	5.6	Bross	200°			
•	Vitling Minge OR SP Upright on 1" Spig	W4600	1/2"	5.6	Bross	200°			
•	Vitling Minge OR SP Upright on 1" Spig	W4600	1/2"	5.6	Bross	200°			
•	Vitling Minge OR SP Pendant	W4602	1/2"	5.6	Bross	200°			
•	Vitling Minge OR SP Horizontal Sidewall	W46355	1/2"	5.6	Bross	200°			

APPROVALS BY:

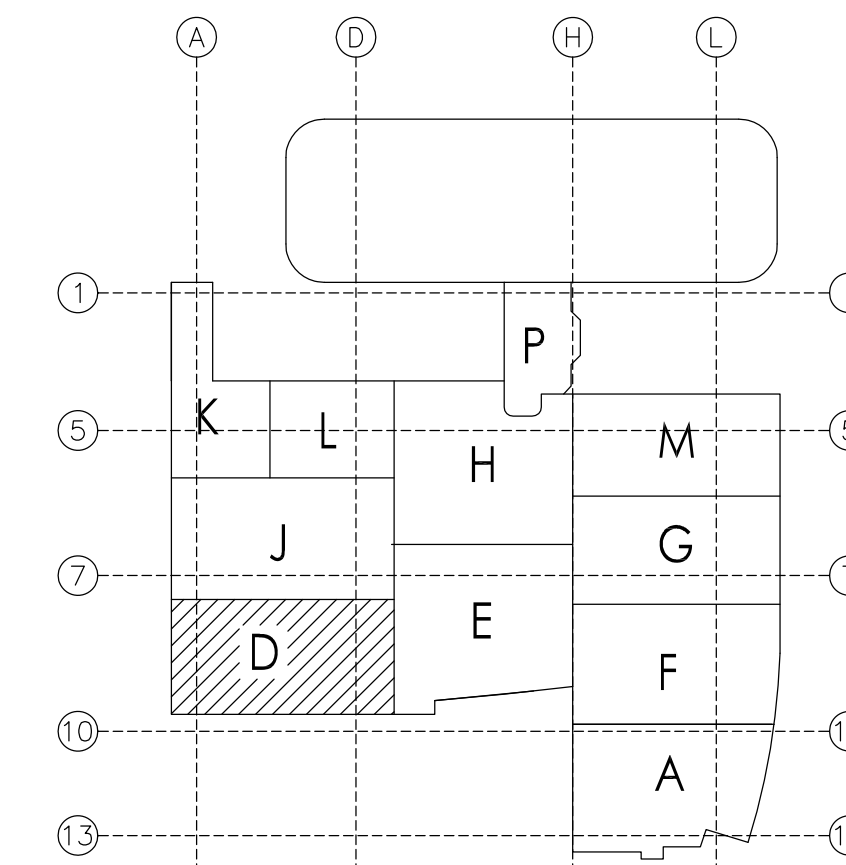
CHPO

TOTAL SPRINKLERS =

THIS SHEET

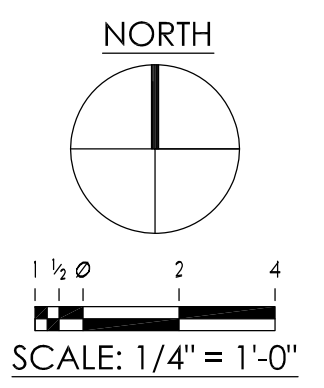
MC CARTHY APPROVAL	
A. <i>Approved as noted for Structural Review</i>	☐
B. <i>Review and Revisions</i>	☐
C. <i>Rejected</i>	☐
This review is for general conformance with Plans and Specifications only. Any deviations from terms not clearly noted by the Preparer have been reviewed. Review shall not constitute a complete check of detailed dimensions or count to serve to relieve the Preparer of contractual responsibility for any error or deviation from contractual requirements.	
McCarthy	
By _____	Date _____
SHOP DRAWING REFERENCE NO. _____	

AS BUILT DRAWING
9-1-2011
Pat Fisher



A1 KEY PLAN

- ## 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 |



LEVEL 04 209.30' = 0'-0"

REFERENCE THIS SHEET

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

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

September 01, 2011 2:30:31 p.m.

Drawing: J:\LC-7196 CHOC\COSCO\CFP 05 LATEST.DWG

Xrefs: 4206075_S2-6A_D.DWG\X-grid core 5.DWG\V-A4.5A.DWG\C-shell L5.DWG\C-RCP-5-NEW.DWG\X-plan 5-NEW.DWG



Cosco

Fire Protection

FIRE PROTECTION AND LIFE SAFETY SPECIALISTS

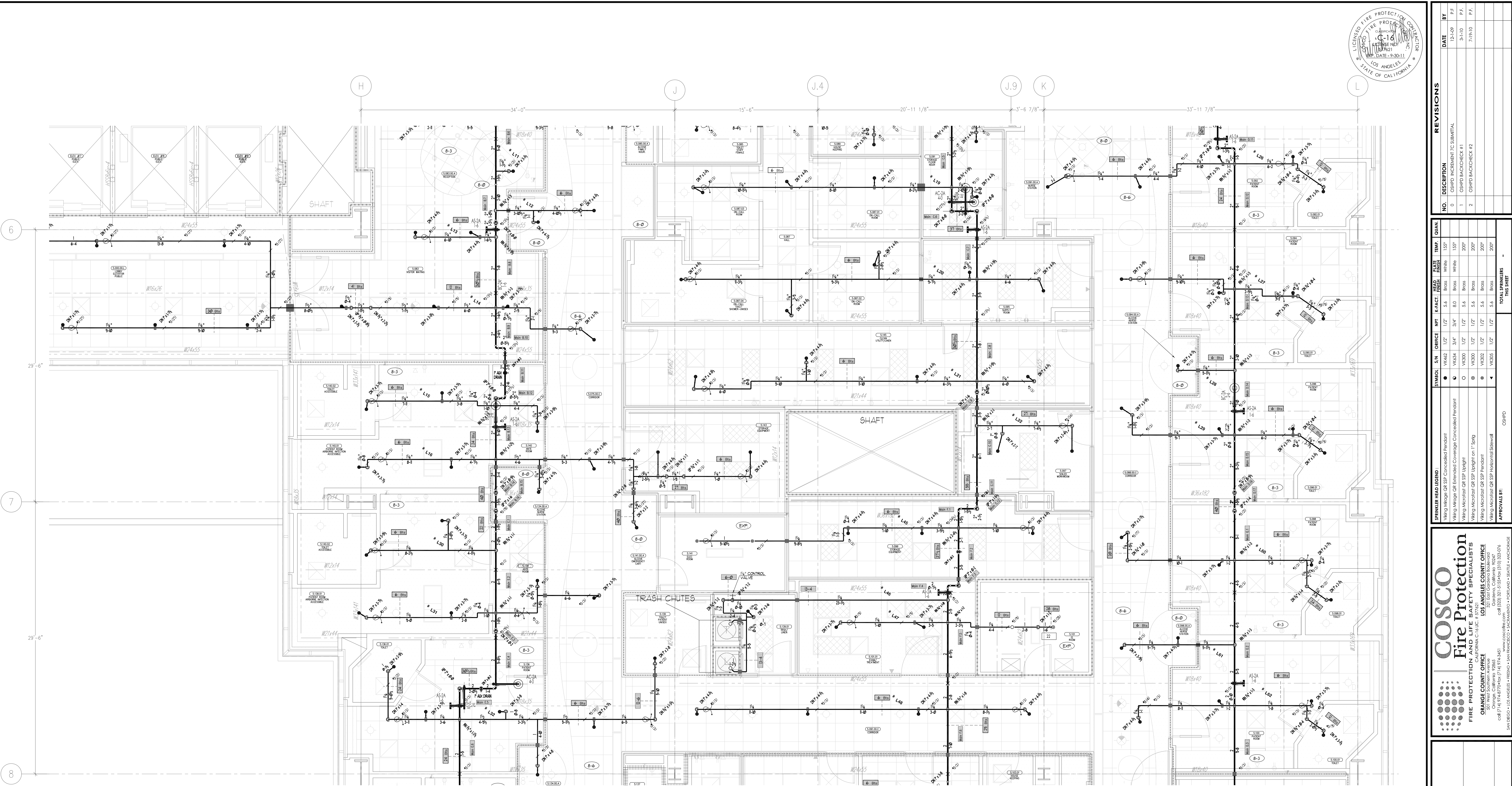
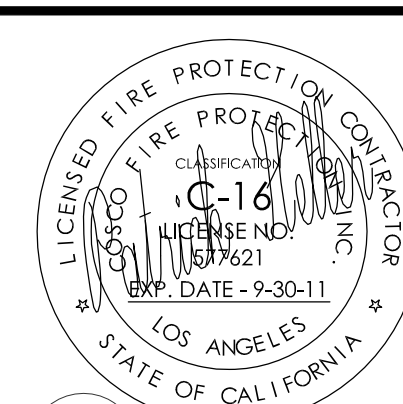
ORANGE COUNTY OFFICE
501 West Southern Avenue
Orange, California 92665
call (714) 947-0704 / (714) 974-5461

LOS ANGELES COUNTY OFFICE
321 East Cordona Boulevard
Cordona, California 92627
call (562) 311-3135 / 1-800-276-0076

SAN DIEGO • LOS ANGELES • PLEASANTON • SAN FRANCISCO • SACRAMENTO • SAN JOSE • SAN JOAQUIN • SAN PABLO • SAN PETER • SAN RAMON • SAN VICENTE

PROJECT	CHOC Hospital 44 S. Main St. Orange, CA 92668
CONTRACT WITH:	McCarthy 20401 Southwest Birch St, Suite 300 Newport Beach, CA 92660
DRAWING TITLE	Level 5 - Area D (Roof)

DATE:	12-1-09	
SCALE:	1/4"=1'-0"	
DRAWN BY:	P.F.	
JOB NO.	LC-7196	
SHEET NO.	FP-5.D	



FOR SYSTEM RISER RECAP SEE SHEET FP-5.M

NOTE: AUXILIARY DRAINS PER
2002 NFPA 13 SEC. 8.15.2.5

MCCARTHY APPROVAL

A. Approved as shown for distribution: ☐

B. Review and Revisions: ☐

C. Rejected: ☐

This review is for general conformance with Plans and Specifications only. Any deviations from same not clearly noted by the Engineer have not been reviewed. Reviewer shall not constitute a complete check of detailed dimensions or count to verify to ensure the Engineer of contractual responsibility for any error or deviation from contract requirements.

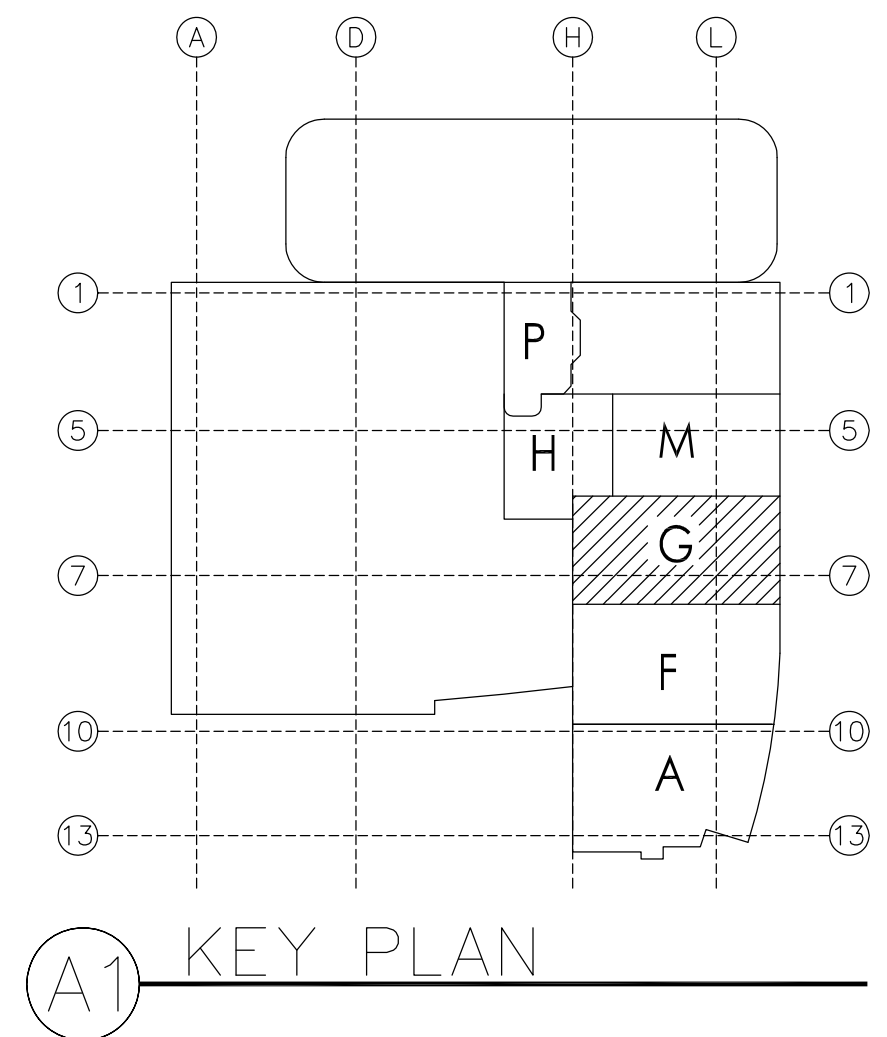
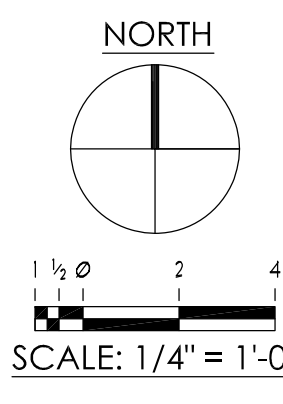
McCarthy

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 9-1-2011



REVISIONS	
NO.	DESCRIPTION
0	OSHPD INCREMENT 7C SUBMITTAL
1	OSHPD BACKCHECK #1
2	OSHPD BACKCHECK #2

SYMBOL	SYN	OFFICE	WPT	ACT	HEAD	FINISH	WTP	QUAN
Wing Midge QR SSP Concealed Pendant	●	VI462	1/2"	1/2"	5.6	Brass	150"	
Wing Midge QR Extended Coverage Concealed Pendant	●	VI464	3/4"	3/4"	8.0	White	150"	
Wing Microdot QR SP Upright	○	VI300	1/2"	1/2"	5.6	Brass	200"	
Wing Microdot QR SP Upright on 1" Spig	○	VI302	1/2"	1/2"	5.6	Brass	200"	
Wing Microdot QR SP Pendant	○	VI302	1/2"	1/2"	5.6	Brass	200"	
Wing Microdot QR SP Recessed Sidelight	◐	VI305	1/2"	1/2"	5.6	Brass	200"	
TOTAL SPINNERS THIS SHEET								1

COSCO Fire Protection

FIRE PROTECTION AND LIFE SAFETY SPECIALISTS

LOS ANGELES COUNTY OFFICE

321 East Colorado Boulevard
Pasadena, CA 91106
Call (626) 321-1355 Ext. 310/320/324

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CHOC Hospital

655 S. Main St.
Orange, CA 92668

McCarthy

20401 Southwest Birch St., Suite 300
Newport Beach, CA 92660

CONTRACT WITH: _____

DRAWING TITLE: **Level 5 - Area G**

DATE: 12-1-09

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

DRAWN BY: P.F.

JOB NO. **LC-7196**

SHEET NO. **FP-5.G**

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

September 01, 2011 2:30:31 p.m.

Drawing: J:\LC-7196 CHOC\COSCO\CFP 05 LATEST.DWG

Xrefs: 4206075_S2-6A_D.DWG\X-ref\grid core 5.DWG\X-ref\A4.5A.DWG\X-ref\L3.DWG\X-ref\RCP-S-NEW.DWG\X-ref\plan 5-NEW.DWG\



REVISIONS			
NO.	DESCRIPTION	DATE	BY
0	OSHPD INCREMENT 7C SUBMITAL	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	S/N	OFFICE	WPT	K-ACCT	HEAD INCH	FLASK INCH	TWAT	QUAL
●	Viang Magoa OR SSP Concated Pendant	●	V6462	1/2"	5.6	Bross	White	150"		
●	Viang Magoa OR Extended Coverage Concated Pendant	●	V6464	3/4"	8.0	Bross	White	150"		
○	Viang Micoatua OR SSP Upright	○	V6300	1/2"	5.6	Bross		200"		
○	Viang Micoatua OR SSP Upright 1" Spig	○	V6300	1/2"	5.6	Bross		200"		
○	Viang Micoatua OR SSP Pendant	○	V6302	1/2"	5.6	Bross		200"		
▲	Viang Micoatua OR SSP Horizontal Sidewall	▲	V6302	1/2"	5.6	Bross		200"		
APPROVALS BY:										TOTAL SPINNERS =
GPHO										THIS SHEET

3

COSCO

Fire Protection

FIRE PROTECTION AND LIFE SAFETY SPECIALISTS

ORANGE COUNTY OFFICE
501 West Southern Avenue
Orange, California 92665
call (714) 974-8776 • fax (714) 974-3481
www.coscocalifornia.com

LOS ANGELES COUNTY OFFICE
301 East Gardner Boulevard
Orange, California 92667
call (714) 311-1554 • fax (714) 322-0763
www.coscocalifornia.com

SAN DIEGO • LOS ANGELES • TRENTON • SAN FRANCISCO • SACRAMENTO • BENTLEY • ANCHORAGE

PROJECT	CHOC Hospital 445 S. Main St. Orange, CA 92668
CONTRACT WITH:	McCarthy 20401 Southwest Birch St., Suite 300 Newport Beach, CA 92660
DRAWING TITLE	Level 5 - Area H

DATE: 12-1-09	
SCALE: 1/4"=1'-0"	
DRAWN BY: P.F.	
JOB NO. LC-7196	
SHEET NO. FP-5.H	

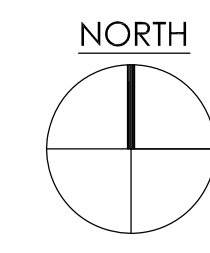
SYMBOL IDENTIFICATION LEGEND

- 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

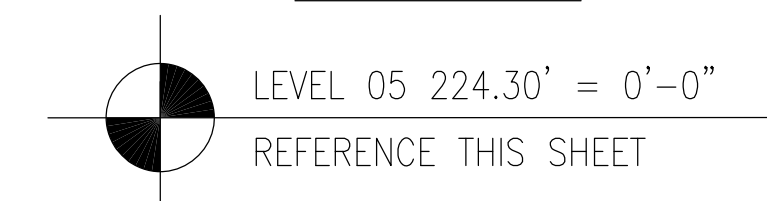
CEILING HEIGHT WILL TYPICALLY BE [9'-0"], UNLESS OTHERWISE NOTED ON THE PLAN.

AS BUILT DRAWING

Pat Fisher



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

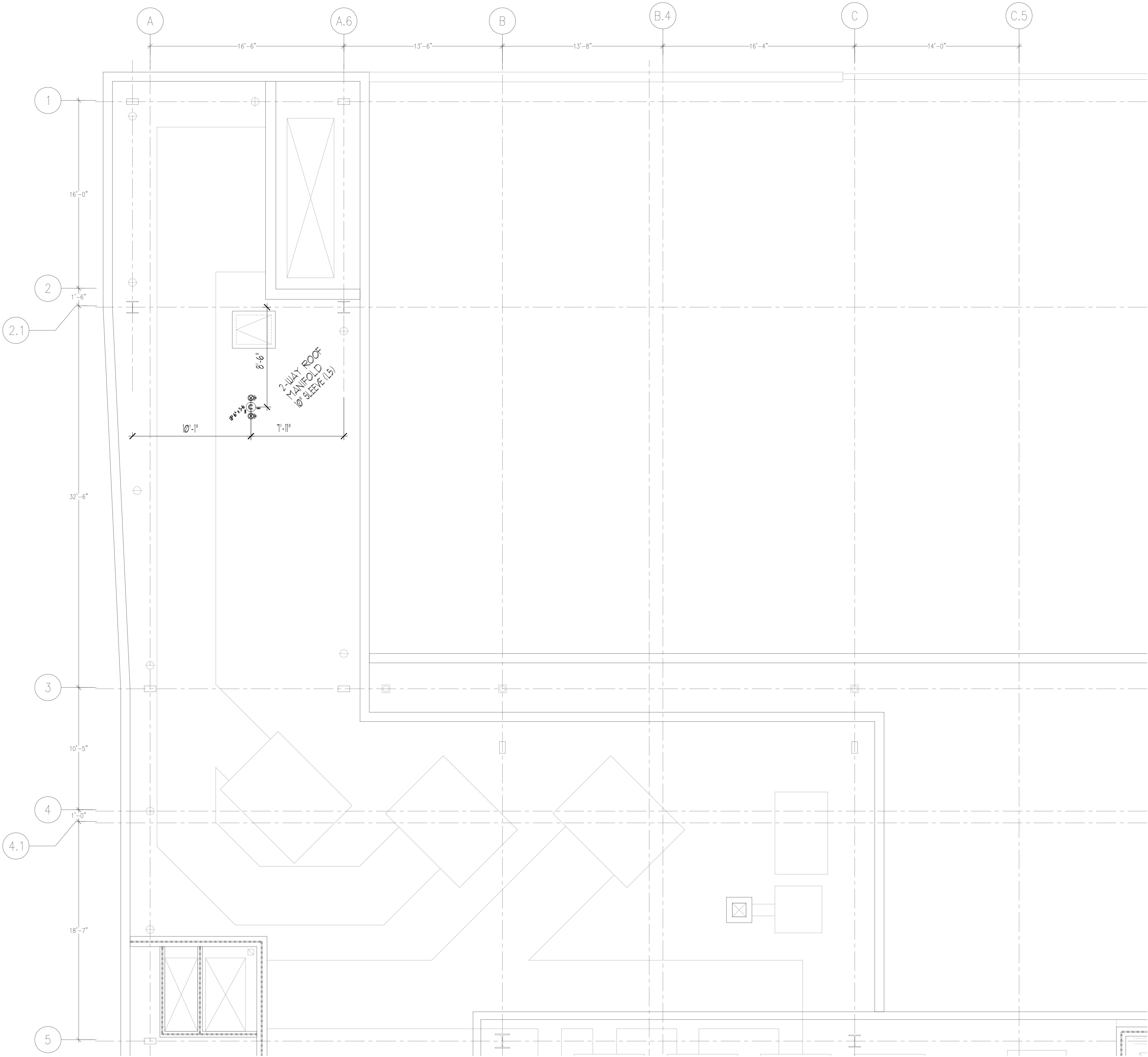


OSHPD No.: IL-072072-30 / INCREMENT #7C - DA#16

September 01, 2011 2:30:31 p.m.

Drawing: J:\LC-7196 CHOC\COSCO\CFP 05 LATEST.DWG

Xrefs: 4206075_S2-6A_D.DWG\X-grid core 5.DWG\V-A4.5A.DWG\C-shell L5.DWG\C-RCP-5-NEW.DWG\X-plan 5-NEW.DWG\



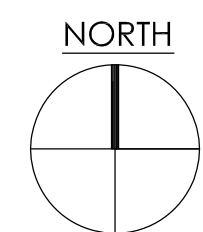
SYMBOL IDENTIFICATION LEGEND

- 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.

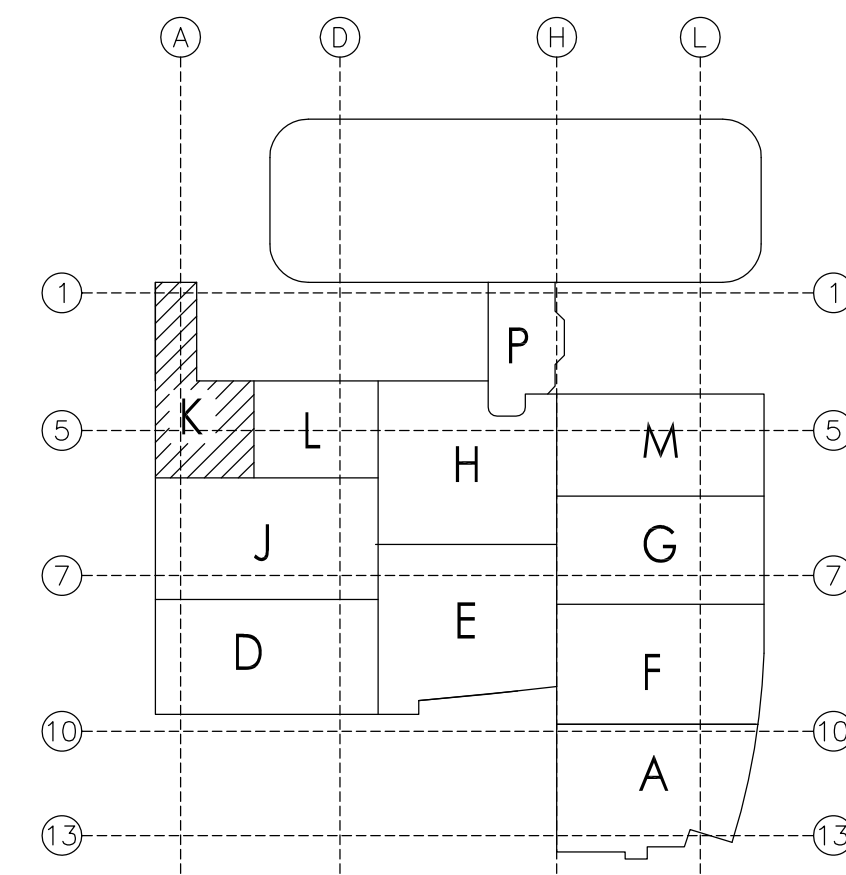
AS BUILT DRAWING

Pat Fisher



LEVEL 04 209.30' = 0'-0"

REFERENCE THIS SHEET



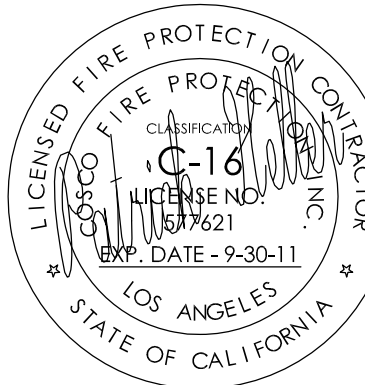
A1 KEY PLAN

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

September 01, 2011 2:30:31 p.m.

Drawing: J:\LC-7196 CHOC\COSCO\CFP 05 LATEST.DWG

Xrefs: 420607S_S2-A6_D.DWG\X-grid core 5.DWG\Y-A4.5A.DWG\C-shell L3.DWG\C-RCP-S-NEW.DWG\X-plan 5-NEW.DWG\



NO.	DESCRIPTION	REVISIONS	DATE	BY
0	COSCO INCREMENT 7C SUBMITTAL		12-1-09	P.F.
1	OSHPD BACKCHECK #1		3-1-10	P.F.
2	OSHPD BACKCHECK #2		7-14-10	P.F.

SYMBOL	S/N	OFFICE	W/F	K-FACT	HEAD	PLATE	FINISH	TWP.	QUAN.
Wing Midget OR SSP Concealed Pendant	●	V4462	1/2"	1/2"	5.6	Brass	White	150"	
Wing Midget OR Extended Coverage Concealed Pendant	●	V4547	3/4"	3/4"	8.0	Brass	White	150"	
Wing Microdot OR SSP (bright on 1" Sprig)	○	V4300	1/2"	1/2"	5.6	Brass	White	200"	
Wing Microdot OR SSP (bright on 1" Sprig)	○	V4300	1/2"	1/2"	5.6	Brass	White	200"	
Wing Microdot OR SSP Pendant	●	V4302	1/2"	1/2"	5.6	Brass	White	200"	
Wing Microdot OR SSP Horizontal Sidelight	◄	V4305	1/2"	1/2"	5.6	Brass	White	200"	
TOTAL SPINNERS THIS SHEET									-

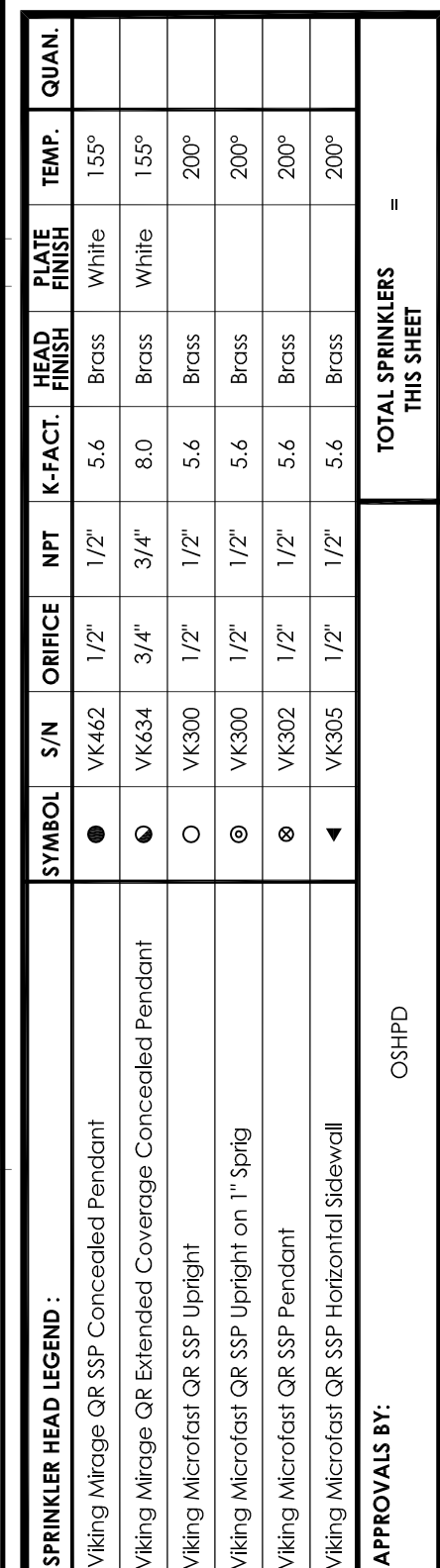
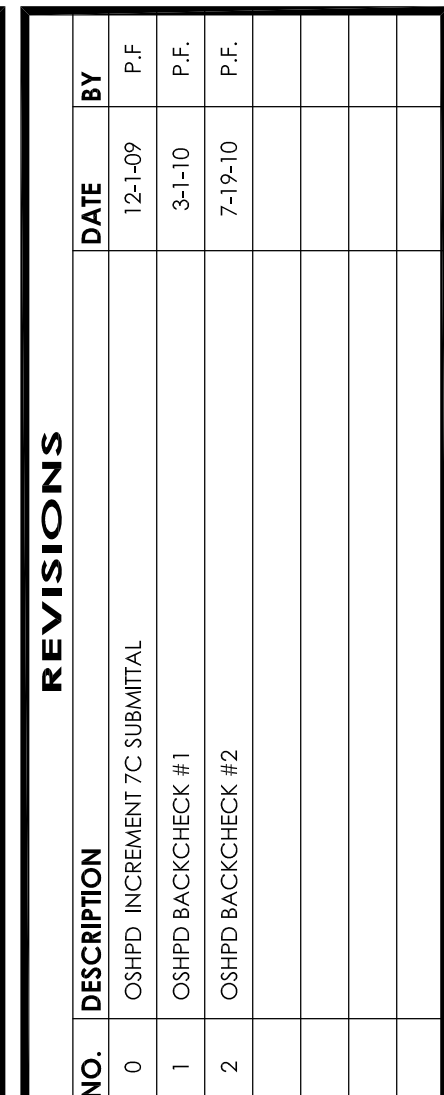
APPROVALS BY:

COSHPD

COSCO
Fire Protection
FIRE PROTECTION AND LIFE SAFETY SPECIALISTS
LOS ANGELES COUNTY OFFICE
321 East Colorado Boulevard
Pasadena, CA 91106
call (803) 921-1555 Ext. (310) 320-074
SAN DIEGO • LOS ANGELES • FRESNO • SAN FRANCISCO • SACRAMENTO • PORTLAND • SEATTLE • ANCHORAGE

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: Level 5 - Area K (Roof)

DATE: 12-1-09
SCALE: 1/4"=1'-0"
DRAWN BY: P.F.
JOB NO: LC-7196
SHEET NO: FP-5.K
2



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	Level 5 - Area M

SYSTEM RISER RECAP

TOTAL SQUARE FOOTAGE FOR THIS SYSTEM: 28,672
TOTAL HEAD COUNT FOR THIS SYSTEM: 272

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

LEVEL 05 224.30' = 0'-0"
REFERENCE THIS SHEET



DATE: 12-1-09	
SCALE: 1/4"=1'-0"	
DRAWN BY: P.F.	
JOB NO. LC-7196	
SHEET NO. FP-5.M	