

APPENDIX A

Total Camera Count: 311

Location	Camera Label (Old)	ACTION	NEW MODEL	NOTES
1C-04 warehouse		NEW CAMERA	Axis P3364-LV 6mm	One cam look down each isle East
1C-04 warehouse		NEW CAMERA	Axis P3364-LV 6mm	One cam look down each isle West
1C-04 warehouse		NEW CAMERA	Axis P3364-LV 6mm	One cam look down each isle East
1C-04 warehouse		NEW CAMERA	Axis P3364-LV 6mm	One cam look down each isle West
1C-04 warehouse		NEW CAMERA	Axis P3364-LV 6mm	One cam look down each isle East
1C-04 warehouse		NEW CAMERA	Axis P3364-LV 6mm	One cam look down each isle West
1C-04 warehouse		NEW CAMERA	Axis P3364-LV 6mm	One cam look down each isle East
1C-04 warehouse		NEW CAMERA	Axis P3364-LV 6mm	One cam look down each isle West
1C-05 Warehouse NW corner		NEW CAMERA	Axis M3006-V	
1C-05 Warehouse SW corner		NEW CAMERA	Axis M3006-V	
1S HCU EST Hall	1S HCU EST HALL	Replace	Axis M3005	Picked basic Axis camera
1S HCU Hall (SOUTH HALLWAY)	1S HCU HALL SOUTH	Replace	Axis M3005	Picked basic Axis camera
1S HCU S ENT (DOOR#6)	1S HCU S ENT	Replace	Axis M3005	Picked basic Axis camera
1S HCU W ENT	1S HCU ENT	Replace	Axis M3005	Picked basic Axis camera
1SE CORRIDOR & HALLWAY	1-C-23	Replace	Axis M3006-V	
1SE EXTERIOR DOOR	1-C-47	Replace	Axis P3354-VE-6mm	
1SE MED ROOM/PYXIS	1-C-72	Replace	Axis M3005	
1SE NORTH HALLWAY	1-C-43	Replace	Axis M3006-V	
1SO MED ROOM/PYXIS A	1-C-73	Replace	Axis M3005	
1SO NORTH EXT DOOR/WALKWAY	1-C-44	Replace	Axis P3354-VE-6mm	
1ST SERVICE BAY ELEVATOR	1-C-25	Replace	Axis M3006-V	
1ST SOUTH ELEVATORS	1-C-41	Replace	Axis M3005	
1ST SOUTH ELEVATORS	1-C-22	Replace	Axis P3354-VE-6mm	
1ST SPD NORTH HALLWAY	1-C-13	Eliminate	goto 10.177.16.68	
1ST SPD SOUTH HALLWAY (AUDITORIUM REAR DOOR)	1-C-34	Replace	Axis P3354-V 6mm	
1ST VET REP HALL / CHAPEL ENT	1-C-32	Eliminate	goto 10.177.16.79	
1ST VMU / NE EXIT	1-C-17	Replace	Axis P3354-V 6mm	
1SW MED ROOM/PYXIS	1-C-69	Replace	Axis M3005	
2F-30 FOOD COURT / PTZ	2-C-11	Replace	SONY SNCHM662	
2ND CREDIT UNION LOBBY	2-C-05	Replace	Axis P3354-V 6mm	
2ND SERVICE BAY ELEVATORS	2-C-26	Replace	Axis M3006-V	
2ND SOUTH ELEVATORS	2-C-27	Replace	Axis M3005	
2ND WEST ELEVATOR	2-C-34	Replace	Axis P3354-V 6mm	
2SE MED ROOM / PYXIS A	2-C-28	Replace	Axis M3005	
2SE MED ROOM / PYXIS B	2-C-29	Replace	Axis M3005	

3NE E. ENTRANCE	3-C-21	Replace	Axis M3005	
3NE E. FRONT DESK	3-C-20	Eliminate	goto 10.177.91.28	
3NE W. FRONT DESK	3-C-19	Replace	Axis M3006-V	
3NE W. WAITING AREA	3-C-22	Replace	Axis M3006-V	
3NW E. FRONT DESK	3-C-14	Eliminate	goto 10.177.91.35	
3NW E. WAITING/VENDING	3-C-15	Replace	Axis M3006-V	
3NW W. FRONT DESK	3-C-13	Replace	Axis M3006-V	
3NW W. WAITING AREA	3-C-12	Replace	Axis M3006-V	
3RD NORTH ELEVATOR	3-C-01	Replace	Axis M3005	
3RD NORTH ELEVATOR 1	3-C-16	Replace	Axis M3005	
3RD SERVICE BAY ELEVATOR	3-C-02	Replace	Axis M3006-V	
3RD SOUTH ELEVATOR	3-C-08	Replace	Axis M3005	
3RD SOUTH ELEVATOR 1	3-C-10	Replace	Axis M3005	
3RD WEST ELEVATOR	3-C-11	Replace	Axis M3005	
3RD WEST ELEVATOR 1	3-C-03	Replace	Axis M3005	
3SE MED ROOM / PYXIS	3-C-09	Replace	Axis M3005	
4B-15 LAB	4-C-03	Replace & Reposition	Axis M3006-V	Move to South east corner of room
4NW MED ROOM / PYXIS	4-C-04	Replace	Axis M3005	
4TH NORTH ELEVATOR	4-C-21	Replace	Axis M3005	
4TH NORTH ELEVATOR 1	4-C-06	Replace	Axis M3005	
4TH SB ELEVATOR	NONE	Replace	Axis M3005	
4TH SB ELEVATOR	4-C-16	Replace	Axis P3354-V 6mm	
4TH SOUTH ELEVATOR	4-C-22	Replace	Axis M3005	
4TH SOUTH ELEVATOR 1	4-C-13	Replace	Axis P3354-VE-6mm	
4TH WEST ELEVATOR	4-C-11	Eliminate	goto 10.177.91.46	
4TH WEST ELEVATOR 1	4-C-18	Replace	Axis M3005	
AD-1	AD-1	Replace	Axis M3006-V	
AGNT CASHIER DOOR	AGNT CASHIER DOOR	Replace	Axis M3005	
AGNT CASHIER ROOM	AGNT CASHIER ROOM	Replace	Axis M3005	Picked basic Axis camera
ANGIOGRAPH 3E-21 / PYXIS	3-C-04	Replace	Axis M3005	
AUDITORIUM / VET REP HALL	1-C-35	Eliminate		
BASEMENT EAST HALL > SOUTH	B-C-5	Replace	Axis M3006-V	
BASEMENT EAST HALL > SOUTH	B-C-4	Replace	Axis P3354-V 6mm	
BASEMENT NE HALL > SOUTH	B-C-2	Replace	Axis M3006-V	
BASEMENT NE STAIRWELL	B-C-1	Replace	Axis P3354-V 6mm	
BASEMENT NW HALL > SOUTH	B-C-14	Replace	Axis M3006-V	
BASEMENT NW STAIRWELL	B-C-15	Replace	Axis P3354-V 6mm	
BASEMENT SE HALL > NORTH	B-C-6	Replace	Axis M3006-V	
BASEMENT SE STAIRWELL	B-C-7	Replace	Axis P3354-V 6mm	
BASEMENT SW HALL > NORTH	B-C-9	Replace	Axis M3006-V	
BASEMENT SW STAIRWELL	B-C-8	Replace	Axis P3354-V 6mm	
BASEMENT TELECOM REAR DR / SB3	B-C-13	Replace	Axis P3354-VE-6mm	

BASEMENT TELECOM RM / INTERIOR	B-C-12	Replace	Axis M3005	
BASEMENT TELECOM ROOM	B-C-11	Replace	Axis M3006-V	
BASEMENT WEST HALL > SOUTH	B-C-10	Replace	Axis M3006-V	
BLOOD LAB CHECK IN/WAITING	4-C-24	Replace	Axis M3005	
BLOOD LAB WAITING ROOM	4-C-23	Replace	Axis M3005	
C1-06 CORRIDOR PTZ	1-C-03	Replace	SONY SNCHM662	
CANTEEN (CASHIER)	CANTEEN (CASHIER)	Replace	Axis M3005	Picked basic Axis camera
CANTEEN / REAR HALL SOUTH	2-C-14	Replace & Reposition	SONY SNCHM662	Move north to center of corridor
CANTEEN FOOD COURT	2-C-10	Replace	Axis M3006-V	
CANTEEN FRONT HALL / ATM	2-C-09	Eliminate	goto 10.177.91.45	
CANTEEN VENDING AREA	2-C-13	Replace	Axis M3006-V	
CANTEEN VENDING HALLWAY	2-C-33	Replace & Reposition	SONY SNCHM662	Move west to center of corridor intersection
CANTEEN/RETAIL REAR HALLWAY	2-C-12	Eliminate	goto 10.177.16.115	
CARDIOLOGY WAITING ROOM	4-C-20	Replace	Axis P3354-VE-6mm	
CCU PYXIS HALLWAY	4-C-05	Replace & Reposition	SONY SNCHM662	Move ~12 feet East to center
DIRECTOR'S ADMIN DESK X60075	4-C-02	Replace	Axis M3006-V	
DIRECTOR'S SUITE ENTRANCE	4-C-01	Replace	Axis M3005	
Distribution		NEW CAMERA	Axis M3005	Put cameras in corridor view
Distribution		NEW CAMERA	Axis M3005	Put cameras in corridor view
Distribution		NEW CAMERA	Axis M3005	Put cameras in corridor view
Distribution		NEW CAMERA	Axis M3005	Put cameras in corridor view
Distribution		NEW CAMERA	Axis M3005	Put cameras in corridor view
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Distribution		NEW CAMERA	Axis M3005	Put cameras in corridor view
Distribution		NEW CAMERA	Axis M3005	Put cameras in corridor view
Distribution		NEW CAMERA	Axis M3005	Put cameras in corridor view
Dock near 1C-13 Storage Face East		NEW CAMERA	Axis P3354-V 6mm	
Dock near 1C-13 Storage Face West		NEW CAMERA	Axis P3354-V 6mm	
EAST ENTRANCE FIXED CAM 1	EAST ENTRANCE FIXED CAM 1	Replace	Axis P3354-VE-6mm	
EAST ENTRANCE FIXED CAM 2	EAST ENTRANCE FIXED CAM 2	Replace	Axis P3354-VE-6mm	
ER AnteRoom 1A556A		NEW CAMERA	Axis P3364-LV 6mm	
ER Entrance corridor C1-06 South		NEW CAMERA	Axis M3005	
ER HOLDING	ER HOLDING	Replace	Axis Q8414-LVS	
ER PSYCH ROOM 1A-556	ER PSYCH ROOMS 1 & 2	Replace	Axis Q8414-LVS	
ER PSYCH ROOM 1A558	ER PSYCH ROOMS 1 & 2	Replace	Axis Q8414-LVS	
ER seculsion C1-09 North corridor		NEW CAMERA	Axis M3005	

ER seculsion C1-09 South corridor		NEW CAMERA	Axis M3005	
ER WAITING AREA	1-C-04	Replace	Axis M3005	
ER waiting Room 1A0547		NEW CAMERA	SONY SNCHM662	Centered in the space such that doors to C1-09 corridor, 1A-17C corridor and door into ER are easy seen
F-C-01	FC-01	Replace	Axis P3354-VE-6mm	
F-C-02	FC-02	Replace	Axis P3354-VE-6mm	
F-C-02	FC-03	Replace	Axis P3354-VE-6mm	
F-C-03	FC-05	Replace	Axis P3354-VE-6mm	
F-C-04	FC-04	Replace	Axis P3354-VE-6mm	
F-C-06	FC-06	Replace	Axis P3354-VE-6mm	
GENERATOR BACKSIDE	1-C-77	Replace & Reposition	Axis M3006-V	Best position will be determined at install
GENERATOR ENTRY / S. SIDE	1-C-78	Replace	Axis M3006-V	
GI LAB MED ROOM/PYXIS	3-C-05	Replace	Axis M3005	
HALL ENTER	HALL ENTER	Replace		
HEMODIALYSIS MED RM/PYXIS	4-C-07	Replace	Axis M3005	
HR-1	HR1	Replace	Axis M3006-V	
HR-2	HR2	Eliminate	goto 10.177.53.20	
IN-PT PHARMACY & HALLWAY	1-C-08	Replace & Reposition	Axis M3006-V	Move camera north so corridor C1-53 and C1-54 are visible
IN-PT PHARMACY & HALLWAY	1-C-09	Replace & Reposition	Axis M3006-V	Relocate to south to just above SPD door
KITCHEN EAST ENTRANCE	1-C-39	Replace & Reposition	SONY SNCHM662	Move to center of corridor C1-67,1C-07 and C1-63
LOADING DOCK EXTERIOR SE	1-C-45	Replace	Axis P3354-VE-6mm	
LPR E ENTER LEFT	LPR-2	Use	Axis P1346	Already own
LPR E ENTER RIGHT	LPR-1	Replace	DINION capture 5000	
LPR E EXIT	LPR-3	Replace	DINION capture 5000	LPR cameras require a separate server for them to work correctly
LPR S ENTER	LPR-7	Use	Axis P1346	Already own
LPR S EXIT CENTER	LPR-5	Use	Axis P1346	Already own
LPR S EXIT LEFT	LPR-4	Use	Axis P1346	Already own
LPR S EXIT RIGHT	LPR-6	Replace	DINION capture 5000	
LPR W ENTER LEFT	LPR-8	Replace	DINION capture 5000	LPR cameras require a separate server for them to work correctly
LPR W ENTER RIGHT	LPR-9	Replace	DINION capture 5000	LPR cameras require a separate server for them to work correctly
LPR W EXIT	LPR-10	Use	Axis P1346	Already own
MAIN ENT PTZ B1	MAIN ENT PTZ B1	Replace	Axis P5534-E	
MAIN LOBBY	MAIN LOBBY	Replace	Axis P3354-VE-6mm	
MAIN LOBBY WST	MAIN LOBBY WST	Replace	Axis P3354-VE-6mm	
MEDICAL MEDIA COURTYARD	1-C-54	Eliminate		
MODULE #2 WEST EXIT	1-C-48	Replace & Reposition	Axis M3006-V	
NARC VAULT (PHARM ROOM)	NONE	Replace	Axis M3005	
NONE	1-C-63	Eliminate	goto 10.177.90.188	
NONE	1-C-79	Eliminate	goto 10.177.91.90	

NONE	HR3	Eliminate	SONY SNCHM662	
NONE	1-C-10	Eliminate	GOTO 10.177.16.66	
NONE	1-C-15	Replace	Axis M3005	
NONE	2-C-15	Replace	Axis M3005	
NONE	1-C-11	Replace	Axis M3006-V	
NONE	PR1	Replace	Axis M3006-V	
NONE	HR4	Replace	Axis P3354-VE-6mm	
NONE	HR7	Replace	Axis P3354-VE-6mm	
NONE	AD-2	Replace	Axis P3354-VE-6mm	
NONE	AD-3	Replace	Axis P3354-VE-6mm	
NONE	AD-5	Replace	Axis P3354-VE-6mm	
NONE	HR5	Replace	Axis P5534-E	
NONE	AD-4	Replace	Axis P5534-E	
NONE	PR2	Replace	Axis P5534-E	
NONE	G-C-01	Replace	Axis P3354-VE-6mm	
NONE	G-C-02	Replace	Axis P3354-VE-6mm	
NONE	1-C-05	Replace	Axis P3354-VE-6mm	
NONE	1-C-24	Replace	Axis P3354-VE-6mm	
NONE	OP9	Replace	Axis P3354-VE-6mm	
NONE	OP10	Replace	Axis P3354-VE-6mm	
NONE	OP11	Replace	Axis P3354-VE-6mm	
NONE	OP1	Replace	Axis P3354-VE-6mm	
NONE	HR6	Replace	Axis P5534-E	
NONE	OP2	Replace	Axis P3354-VE-6mm	
NONE	OP4	Replace	Axis P3354-VE-6mm	
NONE	OP6	Replace	Axis P3354-VE-6mm	
NONE	OP7	Replace	Axis P3354-VE-6mm	
NONE	OP8	Replace	Axis P3354-VE-6mm	
NONE	1-C-70	Replace	Axis P3354-VE-6mm	
NONE	1-C-71	Replace	Axis P3354-VE-6mm	
NONE	1-C-74	Replace	Axis P3354-VE-6mm	
NONE	B-C-3	Replace	Axis P3354-VE-6mm	
NONE	1-C-12	Replace & Reposition	Axis M3006-V	Move camera north so both hallways are visible
NORTH ENTRANCE	1-C-75	Replace & Reposition	Axis P3354-V 6mm	
OP-3	OP3	Replace	Axis P3354-VE-6mm	
OP-5	OP5	Replace	Axis P3354-VE-6mm	
OUTDOOR ER ENT	1-C-49	Replace & Reposition	Axis P3354-VE-6mm	
OUTDOOR ER ENT 2	1-C-50	Eliminate	goto 10.177.90.152	
PARK STRUCT ELEV 1ST	PG	Replace	Axis P3354-VE-6mm	
PARK STRUCT ELEV 2ND	PG	Replace	Axis P3354-VE-6mm	
PARK STRUCT ELEV 3RD	PG	Replace	Axis P3354-VE-6mm	
PARK STRUCT MAIN ENT	PG	Replace	Axis P3354-VE-6mm	
PARK STRUCT NW STAIRS 1ST	PG	Replace	Axis P3354-VE-6mm	
PARK STRUCT PTZ NE	PG	Replace	Axis P5534-E	

PARK STRUCT RAMP 1E NORTH	PG	Replace	SONY SNCHM662	
PARK STRUCT RAMP 1E SOUTH	PG	Replace	SONY SNCHM662	
PARK STRUCT RAMP 2E NORTH	PG	Replace	Axis P3354-VE-6mm	
PARK STRUCT RAMP 2W NORTH	PG	Replace	SONY SNCHM662	
PARK STRUCT RAMP 3W NORTH	PG	Replace	SONY SNCHM662	
PATIENT ADVOCATE HALLWAY	1-C-33	Replace & Reposition	Axis M3006-V	Relocate south ~ 4 feet
PATIENT EFFECTS DOOR	1-C-21	Eliminate	goto 10.177.16.92	
PHARM COPAY ROOM (PHARMACY CONSULTANTS DESK)	PHARM COPAY ROOM (PHARMACY CONSULTANTS DESK)	Replace	Axis M3005	
PHARM COPAY WINDOW	PHARM COPAY WINDOW	Replace	Axis M3006-V	
PHARM DISPENSING WINDOW	1-C-58	Eliminate	goto 10.177.90.185	
PHARM EAST REAR ENT	1-C-67	Eliminate	goto 10.177.90.161	
PHARM I.V. ROOM DOOR	1-C-66	Replace & Reposition	Axis M3006-V	Move north and east just above door
PHARM MAIL ROOM	1-C-51	Replace	Axis M3005	
PHARM MED CAROUSEL	1-C-64	Replace	Axis M3006-V	
PHARM NARC ROOM	1-C-55	Replace	Axis M3005	
PHARM NARC ROOM DR	1-C-61	Replace	Axis M3006-V	
PHARM NARC VAULT	PHARM NARC VAULT	Replace	Axis M3005	
PHARM NARC (PHARM NARC VAULT DOOR)	PHARM NARC (PHARM NARC VAULT DOOR)	Replace	Axis M3005	
PHARM OUT PT P/U WINDOW	1-C-14	Replace	Axis M3006-V	
PHARM OVERSTOCK	1-C-60	Replace & Reposition	Axis M3006-V	Move approx 9 feet north to corner of wall
PHARM PICK-UP WINDOW	1-C-57	Eliminate	goto 10.177.90.182	
PHARM PROCESSING	1-C-59	Replace & Reposition	Axis M3005	
PHARM PROCESSING 2	1-C-62	Replace & Reposition	Axis M3006-V	Move to camera location 10.177.90.189
PHARM PYXIS/VAULT DOOR	1-C-65	Replace	Axis M3005	
PHARM ROOM (PHARM ROOM)	PHARM ROOM (PHARM ROOM)	Replace	Axis M3005	
PHARM SUPPLY OUT	1-C-68	Eliminate	goto 10.177.90.161	
PHARM UPS SHIPPING DESK	1-C-56	Replace & Reposition	Axis M3006-V	Relocate to camera position 10.177.90.183 center of room
PHARMACY HALLWAY NORTH	1-C-31	Replace	Axis M3006-V	Position camera so Corridor C1-56 and C1-48 are visible
POLICE ARMORY	1-C-52	Replace	Axis M3005	
POLICE ENTRY DOOR	1-C-76	Replace	Axis M3005	
PSYCH 2NE MAIN ENT	PSYCH-3	Replace	Axis M3006-V	
PSYCH CORR / NURSING STATION	PSYCH-22	Replace	Axis M3006-V	
PSYCH DINING HALL	PSYCH-14	Replace	Axis M3006-V	
PSYCH EAST EXIT	PSYCH-5	Replace	Axis M3005	
PSYCH GERI ENT / SE EXIT	PSYCH-21	Replace	Axis M3005	
PSYCH GERI RECEIVING	PSYCH-12	Replace	Axis M3005	

PSYCH GERI ROOM #2	PSYCH-1	Replace	Axis Q8414-LVS	
PSYCH GERI ROOM #3	PSYCH-2	Replace	Axis P3364-LV 6mm	
PSYCH GERI TV ROOM	PSYCH-15	Replace & Reposition	Axis M3006-V	Relocate to northeast corner of room
PSYCH MED ROOM / PYXIS	2-C-16	Replace	Axis M3005	
PSYCH N. HALL SINGLE DOOR EXIT	PSYCH-19	Replace	Axis M3006-V	
PSYCH N. HALL/EAST EXIT	PSYCH-11	Replace	Axis M3006-V	
PSYCH N. HALL/WEST EXIT	PSYCH-7	Replace & Reposition	SONY SNCHM662	Move to center of corridor between room 2B630 and 2B-650
PSYCH REC ROOM	PSYCH-4	Replace	Axis M3006-V	
PSYCH S. HALL / W. EXIT DOOR	PSYCH-8	Eliminate	goto 10.177.90.193	
PSYCH SE ENT / SALLYPORT	PSYCH-9	Replace	Axis M3005	
PSYCH SE ENT / SALLYPORT 2	PSYCH-6	Replace	Axis M3005	
PSYCH SERENITY ROOM #1	PSYCH-17	Replace	Axis Q8414-LVS	
PSYCH SERENITY ROOM #1 ENTRY	PSYCH-16	Replace	Axis P3364-LV 6mm	
PSYCH SERENITY ROOM #2	PSYCH-18	Replace	Axis Q8414-LVS	
PSYCH SOUTH HALL / WEST	PSYCH-10	Replace	Axis M3006-V	
PSYCH SW EXIT DOOR / EXTERIOR	PSYCH-20	Replace	Axis M3006-V	
PSYCH WEST CORRIDOR	PSYCH-13	Replace	SONY SNCHM662	
PTZ - BLDG 51 EXTERIOR	4-C-14	Replace	Axis P5534-E	
PTZ - E. PARKING - RED	ANT-04	Replace	Axis P5534-E	
PTZ - E. PARKING / MED GAS TAN	NE PTZ B2	Replace	Axis P5534-E	
PTZ - MAIN ENT EXTERIOR	BLD 52	Replace	Axis P5534-E	
PTZ - N. PARKING - LOT BLUE	ANT-04	Replace	Axis P5534-E	
PTZ - NE PARKING / BUILDING 30	NE PTZ B1	Replace	Axis P5534-E	
PTZ - NW PARKING - BLUE	ANT-03	Replace	Axis P5534-E	
PTZ - NW ROOF CAMERA	NW PTZ B1	Replace	Axis P5534-E	
PTZ - NWW PARKING NWP3	ANT-03	Replace	Axis P5534-E	
PTZ - OLD OP	NONE	Eliminate		
PTZ - S ENTRANCE	ANT-01	Replace	Axis P5534-E	
PTZ - S. PARKING - GRN/YEL	ANT-01	Replace	Axis P5534-E	
PTZ - SE CORNER - YELLOW	ANT-01	Replace	Axis P5534-E	
PTZ - SE PARKING - YELLOW	ANT-01	Replace	Axis P5534-E	
PTZ - SE PARKING ENT/EXIT	SE PTZ B2	Replace	Axis P5534-E	
PTZ - SE PARKING STRUCTURE	SE PTZ B1	Replace	Axis P5534-E	
PTZ - SW CORNER / GREEN	ANT-02	Replace	Axis P5534-E	Move South and East ~ 3 feet to provide coverage of both corridors
PTZ - SW PARKING	SW PTZ B1	Replace	Axis P5534-E	
PTZ - SW PARKING	ANT-02	Replace	Axis P5534-E	
PTZ - W. PARKING - MAIN ENT	ANT-02	Replace	Axis P5534-E	
PTZ NE PARKING - RED	ANT-04	Replace	Axis P5534-E	
PULMONARY MED ROOM / PYXIS	4-C-10	Replace	Axis M3005	
PULMONARY WAITING ROOM	4-C-19	Replace	Axis M3005	

RADIOLOGY CHECK-IN/WAITING	3-C-17	Replace	Axis M3005	
RADIOLOGY WAITING ROOM	3-C-18	Replace	Axis M3005	
RESEARCH RECOVERY	1-C-53	Replace	Axis P3354-V 6mm	
RETAIL (CASHIER)	RETAIL (CASHIER)	Replace	Axis M3005	Picked basic Axis camera
RETAIL (North Hall)	RETAIL (North Hall)	replace	Axis M3005	Picked basic Axis camera
RETAIL STORE CASHIERS SOUTH	2-C-07	Replace	SONY SNCHM662	
RETAIL STORE SOUTH WALL	2-C-06	Replace	SONY SNCHM662	
SAFETY ELEVATOR / N. ENT	1-C-80	Replace & Reposition	Axis M3006-V	
SAFETY OFFICE / STAIRWELL DOOR	2-C-38	Eliminate		
SB01_4A_ENC_6	2-C-08	Replace	SONY SNCHM662	
SB01_6A_ENC_2	1-C-26	Eliminate		
SB01_6A_ENC_3	1-C-27	Replace & Reposition	Axis M3005	Replace suoth and east above double door
SB01_6A_ENC_4	1-C-28	Replace	Axis M3005	
SB01_6A_ENC_6	1-C-29	Replace	Axis M3005	
SB01_6A_ENC_7	1-C-30	Replace	Axis P3354-VE-6mm	
SB02_1A_ENC_1	2-C-01	Replace	Axis P3354-VE-6mm	
SB02_1A_ENC_2	2-C-02	Replace	Axis P3354-VE-6mm	
SICU MED ROOM / PYXIS	3-C-07	Replace	Axis M3005	
SOCIAL WORK WAITING ROOM	2-C-04	Replace & Reposition	Axis M3006-V	
SOCIAL WORK WAITING ROOM/ENTRANCE	2-C-03	Replace	Axis M3006-V	
SSU MED ROOM / PYXIS	3-C-06	Replace	Axis M3005	
STAIRWELL 1-1 DOOR	1-C-01	Replace	Axis P3354-V 6mm	
STAIRWELL 1-1 EXT	1-C-02	Replace	Axis P3354-V 6mm	
STAIRWELL 1-1 INT	SW-1	Replace	Axis P3354-V 6mm	
STAIRWELL 1-2 ENT DOOR	2-C-36	Replace	Axis P3354-V 6mm	
STAIRWELL 1-2 INT	SW-7	Replace	Axis P3354-V 6mm	
STAIRWELL 1-3 INT	SW-15	Replace	Axis P3354-V 6mm	
STAIRWELL 2-1 DOOR	1-C-16	Replace	Axis P3354-V 6mm	
STAIRWELL 2-2 DOOR TO SB2	2-C-41	Replace	Axis P3354-V 6mm	
STAIRWELL 2-2 INT	SW-12	Replace	Axis P3354-V 6mm	
STAIRWELL 2-3 INT	SW-20	Replace	Axis P3354-V 6mm	
STAIRWELL 3-1 INT	SW-3	Replace	Axis P3354-V 6mm	
STAIRWELL 3-2 DOOR	2-C-37	Replace	Axis P3354-V 6mm	
STAIRWELL 3-2 INT	SW-10	Replace	Axis P3354-V 6mm	
STAIRWELL 3-3 INT	SW-18	Replace	Axis P3354-V 6mm	
STAIRWELL 4-2 DOOR	2-C-35	Replace	Axis P3354-V 6mm	
STAIRWELL 4-2 INT	SW-8	Replace	Axis P3354-V 6mm	
STAIRWELL 4-3 INT	SW-16	Replace	Axis P3354-V 6mm	
STAIRWELL 4-4 ROOF HATCH	4-C-09	Replace	Axis P3354-V 6mm	
STAIRWELL 5-1 INT	SW-5	Replace	Axis P3354-V 6mm	
STAIRWELL 5-2 DOOR	2-C-42	Replace	Axis P3354-V 6mm	
STAIRWELL 5-2 INT	SW-13	Replace	Axis P3354-V 6mm	

STAIRWELL 5-3 INT	SW-21	Replace	Axis P3354-V 6mm	
STAIRWELL 6-1 INT	SW-4	Replace	Axis P3354-V 6mm	
STAIRWELL 6-2 DOOR	2-C-32	Replace	Axis P3354-V 6mm	
STAIRWELL 6-2 INT	SW-11	Replace	Axis P3354-V 6mm	
STAIRWELL 6-3 INT	SW-19	Replace	Axis P3354-V 6mm	
STAIRWELL 7-1 DOOR	1-C-20	Replace	Axis P3354-V 6mm	
STAIRWELL 7-1 INT	SW-2	Replace	Axis P3354-V 6mm	
STAIRWELL 7-1 INT DR	1-C-19	Replace	Axis P3354-V 6mm	
STAIRWELL 7-2 DOOR	2-C-31	Replace	Axis P3354-V 6mm	
STAIRWELL 7-2 INT	SW-9	Replace	Axis P3354-V 6mm	
STAIRWELL 7-3 INT	SW-17	Replace	Axis P3354-V 6mm	
STAIRWELL 8-1 DOOR	1-C-42	Replace	Axis P3354-V 6mm	
STAIRWELL 8-1 ENTRY	SW-6	Replace	Axis P3354-V 6mm	
STAIRWELL 8-2 DOOR	2-C-24	Replace	Axis P3354-V 6mm	
STAIRWELL 8-2 ENTRY	2-C-30	Replace	Axis P3354-V 6mm	
STAIRWELL 8-2 INT	SW-14	Replace	Axis P3354-V 6mm	
STAIRWELL 8-3 INT	SW-22	Replace	Axis P3354-V 6mm	
SW ENTPTZ B1	SW ENTPTZ B1	Replace	Axis P5534-E	
VOLUNTEER/CHAPEL S. HALL	1-C-36	Replace & Reposition	Axis M3006-V	Relocate south and West to corner
Warehouse R1 NE		NEW CAMERA	SONY SNCHM662	
Warehouse R1 NW		NEW CAMERA	SONY SNCHM662	
Warehouse R1 SE		NEW CAMERA	SONY SNCHM662	
Warehouse R2 NE		NEW CAMERA	SONY SNCHM662	
Warehouse R2 SW		NEW CAMERA	SONY SNCHM662	
Warehouse SW looking at server storage		NEW CAMERA	Axis P3364-LV 6mm	

APPENDIX B

SDE (OI&T) **NEW CONSTRUCTION/REMODEL GUIDELINES**

PART 1 – GENERAL VA LOMA LINDA HEALTH CARE SYSTEM

SECTION INCLUDES PART I OVERVIEW:

1.1 Codes of Practice

Adherence to the VA Network Cable Specifications by cabling installation contractors is a condition of contract. In the event the cabling installation is sub-contracted by the prime contractor, the prime contractor will supply a copy of these specifications to the sub-contractor. This requirement shall cover all levels of sub-contracting.

Any variations to the issued job specification shall be referred for approval to the Contracting Officer Technical Representative (COTR).

Contractors shall install all cable and cabling products with a proven track record for data network cabling installations. Such installations shall also meet all requirements as set out in this specification.

Un-terminated "future capacity" cables are not permitted. All installed cables shall be terminated at each end and documentation, labeling and (where applicable) test results provided. This applies to all permanently installed cable types.

1.2 Documentation

At least two copies of documents describing the data cable installation shall be provided.
A copy to be supplied to the COTR for approval

1.3 Network Equipment

COTR must approve the installation or removal of network hardware equipment. Non-VA staff shall carry out such work only with prior approval from the COTR.

1.4 Network Equipment Environment

Punch down area(s) (location of the data communication rack(s)) will be determined by the building Architect/Engineer and the COTR.

Contractor shall supply at minimum 1000BaseT, Category 6 certified rack-mounted modular RJ45 HIGH DENSITY patch panel (24/48 ports) for jacks meeting the ANSI/EIA/TIA t568-A- category 6 standards.

Contractor will supply contract specified number of 19"W x 84"H steel data communication rack. Both racks shall have a grounding wire and bus bar installed to earth ground.

Where network equipment is to be located in a secure room or large closet, the room or closet shall have a dry powder extinguisher, suitable for electrical fires, provided and installed within the room. Air conditioning is required in each IT room. And the OI&T key core should be installed.

PART 2 – SECTION 2 INCLUDES PART 2 OVERVIEW:

2. Requirements include but are not limited to the following:

1. Installation of horizontal and vertical telecommunications backbone cables in cable trays and through vertical paths in the building.
2. Horizontal installation of unshielded twisted pair (UTP) cables in cable trays, conduits, surface raceways, or exposed as required in Part 3 of this section and shown on the drawings.
3. Installation of backbone termination facilities, multi-jack patch panels and multi-media assemblies.
4. Termination of backbone and unshielded twisted pair (UTP) cables.
5. Testing of cables and terminations.

2.1 RELATED SECTIONS

Section 16010 - Basic Electrical Requirements

Section 16111 - Conduit

Section 16112 - Surface Raceways

Section 16115 - Indoor Service Poles

Section 16195 - Elect. Electrical Identification

2.2 REFERENCED STANDARDS

A. Electronic Industries Association/Telephone Industries Association - EIA/TIA-568A Commercial Building Telecommunications Wiring Standard For 1000 baseTx Networks.

B. American National Standards Institute/Institute of Electrical and Electronic Engineers ANSI/IEEE 802.3 Standards for Local and Metropolitan Area Networks: Carrier Sense Multiple Access with Collision Detection (CSMMCD) Access Method and Physical Layer Specifications

2.3 SYSTEM DESCRIPTION

A. The system is a series of unshielded cables and terminations between telephone and computer equipment jacks and LAN communications connection concentration points. The system must be tested to verify satisfactory ANSI/IEEE and circuit parameters.

2.4 QUALITY ASSURANCE

A. Manufacturer and installer qualifications: To be specialists in the installation and testing of telecommunications systems and local area networks.

2.5 PRE-CONSTRUCTION CONFERENCE

A. Schedule an "in-brief meeting" with each working group to confirm the work and determine the specific and special conditions for the area(s).

2.6 DELIVERY, STORAGE, AND HANDLING

- A. Deliver products to the site.
- B. Store and protect products in a clean, dry space. Maintain factory wrapping or provide an additional covering to protect units from dirt, water, construction debris, and traffic.
- C. Handle in accordance with manufacturers written instructions. Handle carefully to avoid damage:

PART 3 - PRODUCTS

3.1 ACCEPTABLE MANUFACTURERS

- A. Data jacks will consist of: One each [Yellow, Ivory, Gray]
- B. Patch Panels: CAT 6 48 Port
- C. LAN Cable: Com Scope, Berk-Tek, Mohawk/CDT, Essex, or approved equivalent (Yellow, Blue, and Red)
- D. LAN cable standoffs - Panduit PPIS-SIOX (2"), PP2S-SIO-X (4-5/8") or approved equivalent.
- E. LAN cable tie mounting device - Panduit PLC-2S-S 1 0 series, or approved equivalent.
- F. LAN Wire Management: Ortronics (OR-60400129)
- G. Data face plates: Electrical Ivory

PART 4 - EXECUTION

4.1 INSTALLATION

- A. INSTALLATION CONTRACTORS ARE REQUIRED TO POST A COPY OF THE CABLE SPECS IN PATCH PANEL AREA DURING CONSTRUCTION.
- B. Horizontal backbone cables shall be installed in segregated cable trays as shown on the drawings. Vertical backbone cables shall be installed through floor sleeves and supported by kellum or approved strapping methods on plywood wall surface.
- C. Unshielded Twisted Pair Level 6 (UTP) Cables:
 - 1. Install 3 Category 6 unshielded twisted pair cables per face plate as shown on the drawings (Diagram 1). Length will not exceed 90 meters (295 feet) for Level 6 cable. Offices and other finished areas shall have the wiring concealed if possible.
 - 2. Do not exceed a minimum bending radius of 8 times the diameter of the cable in free flowing configurations. The radius in surface raceways, furniture panels and termination boxes should be at formed around a 1/2" dowel to avoid a change in the wire characteristics affecting the near-end cross talk.

3. Tears or twists in the sheaths are not permitted. Splices, bridge taps or any method of repairing a damaged cable is not allowed.
4. The maximum pulling tension on the cable shall not exceed 25 pounds.
5. Support cable groups of more than 8 cables using devices that have at least 1/2" of surface area where the support comes in contact with the cables and shall be free of sharp edges or fasteners. Branches from cable bundles must be made with a minimum 8" radius (no kinks). Supports shall at a maximum span of 48 inches.
6. Plastic ties used to support individual and groups of cables of 7 or less must be pulled up snug, hand tight only to prevent "denting" of the cable sheath. Supports shall at a maximum span of 48 inches. where possible Velcro cable ties shall be used.
7. Support cables to provide a visible sag in the cable run between supports to prevent over-stress of the cable system. Sag minimums are as follows:

1.0 in.	48 in. span
0.5 in.	32 in. span
0.25 in.	24 in. span
8. Conduit runs used to protect the cable shall be no longer than 200 feet without a pull point. No run of conduit shall have more than two 90-degree bends between pull points. The inside-bending radius shall be at least 6 times the diameter of the conduit. Conduit larger than 2 inches shall have a bending radius no less than 10 times the conduit diameter.
 - 8A. Conduit shall be secured to interstitial floor as appropriate. Firestop **MUST BE USED** when penetrating thru a fire wall, floor or ceiling. (HILTI CP 618 Firestop Putty or equivalent). When installing data cable horizontally thru a fire wall a metal conduit must be installed for the data cable to pass thru and fire stop used where the conduit passes through the wall as well as around the cable. Sealing off the entire hole in the conduit on both sides of the fire wall is required. When data passes vertically thru the floor a metal conduit must be installed and fire stop shall be used at the top of the conduit as well as where the conduit passes thru the floor. When data passes thru the ceiling vertically a metal conduit must be installed and fire stop shall be installed at the bottom of the conduit as well as where the conduit passes thru the ceiling completely sealing off the conduit.
 - 8B. All unused cabling from demolition of projects shall be removed from premise cable.
9. Open LAN wiring shall be separated by 18" from a fluorescent light fixture. Use of conduit is recommended where this separation cannot be maintained. Cable pathways shall avoid EMI sources such as motors, transformers, and electrical equipment and power cables that serve them.
10. Color Code:
 - a. Pair 1 - White/Blue and Blue or Blue/White
 - b. Pair 2 - White/Orange and Orange or Orange/White
 - c. Pair 3 - White/Green and Green or Green/White
 - d. Pair 4 - White/Brown and Brown or Brown/White

- D. Terminations: Terminate unshielded twisted pair (UTP) cables on RJ-45, 8-pin modular jacks on the client end and approved patch panels as shown on the Drawings. Maintain the twist of the conductors up to the jack terminal. Insert jacks in Face plates and provide filler plates for unused jack ports. For each 48/24 port patch-panel installed place one Ortronics wire-management panel. Install 25% additional ports for expansion on an additional panel to allow for phone installation.
- E. Mark patch panel ports, ends of the cables and Face plates/jacks with the drop designations. Complete data jack assignment list and post at jack location.
- F. Communications equipment (CE) cabinets/Racks: Provide fire-retardant plywood backboard, one side finished for wall-mount CE cabinets; install Racks. Provide data jack assignment list (attached to this section) identifying jack number and mating data jack outlet number and location at Rack.
- G. Protect existing phone system equipment by disconnecting signal from conductors before existing jacks are removed and re-installed to utilize existing conduit and wall boxes.

4.2 FIELD QUALITY CONTROL

A. Installation housekeeping:

1. Protection of installed work:

- a. Provide temporary protection for installed products.
- b. Inspect completed installation for physical damage, proper alignment, and anchorage.
- c. Provide protective coverings at walls, projections, jambs, sills, and on top of openings. Protect finished floors, stairs, office furniture and other existing items from traffic, movement of heavy objects, storage and other installation debris.

2. Cleaning during construction:

- a. Control accumulations of rubbish, excess and waste materials by periodic removal off site for legal disposal. Bag and dispose of installation material scraps off site at the end of each workday. Do not burn or bury materials on site. Do not discharge harmful and dangerous materials on site.
- b. Clean and keep interior areas free of dust and other contaminants during work.
- c. Maintain cleanliness of work areas at all times.
- d. Clean up debris from ceiling or wall penetrations immediately after completion.
- e. Clean work areas at the completion of each work activity and at the end of each workday. Work areas are to be left "broom clean."

3. Restoration at completion:

- a. Restore existing facilities to original condition, including office furniture or materials moved during construction, after construction is complete.

b. Reinstall drop-in-ceiling tiles removed during construction. Replace tiles that were damaged during construction.

B. Safety: Provide a safe and clean work environment with proper storage and disposal of scrap. Hard hats, safety glasses and safety shoes are to be worn at all times when and where required.

4.3 ADJUSTING AND CLEANING

A. Touch up scratched or marred surfaces to match original finish.

B. Repair or replace LAN terminations that do not meet minimum attenuation specifications.

4.4 ACCEPTANCE TESTING

A. LAN cabling:

1. Test completed systems in accordance with ANSI IEEE 802.3, EIA/TIA-568 and the following. Note: The values listed below are for reference. Auto test feature on many testers will confirm these values.

a. Characteristic Impedance - 100 ohms +/- 15% from 1 MHz to 100 MHz.

b. Attenuation - 22 dB at 100 MHz, per 100 meters or less.

c. Near End Crosstalk (NEXT) - Greater than 32 dB at 100 MHz, per 100 meters.
Crossed pairs - No crossed wire pairs.

2. Fill out the data jack assignment list attached to this section, for each rack and turn over to owner's representative. Print detailed reports for each cable segment from test equipment and turn over to owner's representative. Also submit a disk copy of final test results.

3. Post a data jack assignment list in cabinets or racks (see attached form).

END OF SECTION

Attachments (4):

Diagram 1: Data Jack Assignment specifications

Diagram 2: Split phone/data specifications

Diagram 3: Wall phone specifications

Diagram 4: Patch Panel Example

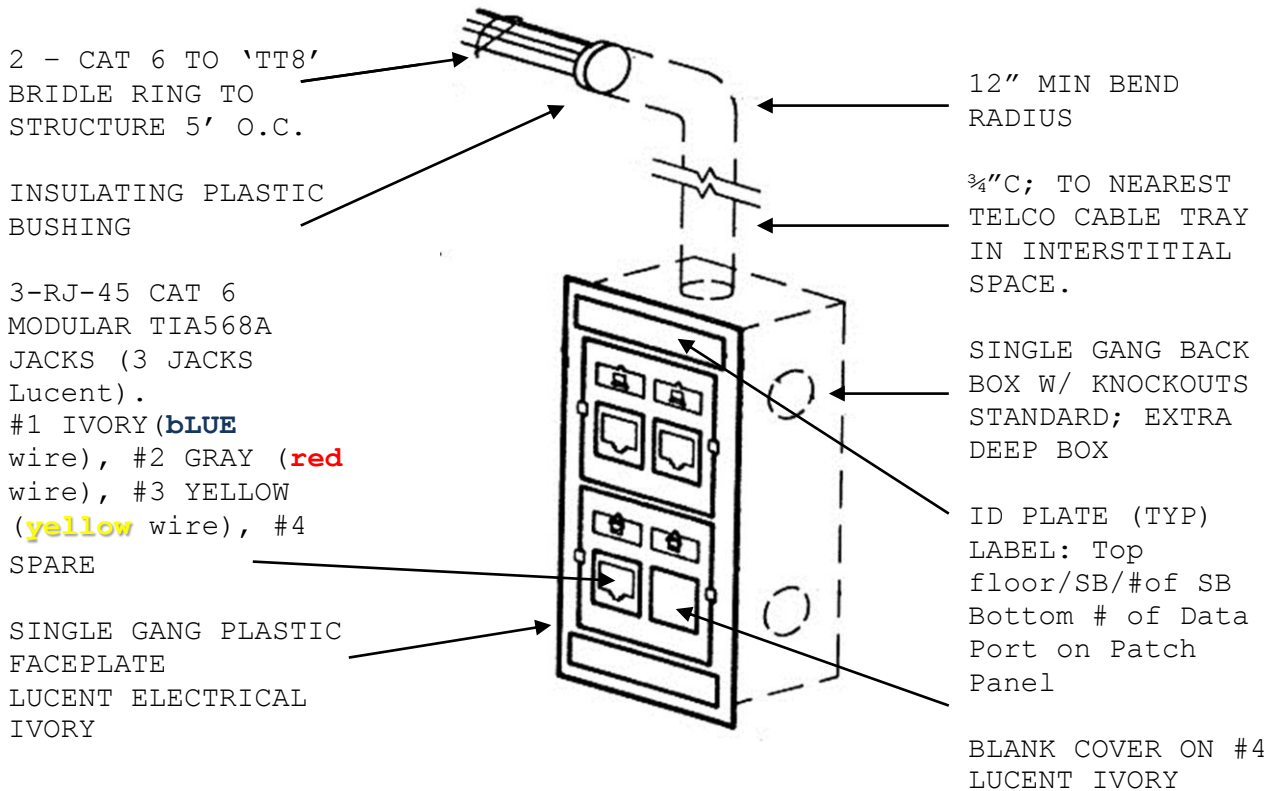
Loma Linda VA Cabling Specifications

Di

NOTES	
1.	DATA CABLE 24 AWG 4-PR CATEGORY 6 COMPLIANT CABLE, Mohawk/CDT, or approved equivalent (YELLOW, BLUE AND RED).
2.	DATA/VOICE JACK Lucent Technologies [YELLOW, IVORY, GRAY]. FCC CERTIFICATION PART 68. MODULAR 8-POS/8-COND IDC JACK. TIA 568A STANDARD WIRING W/ WIC. NO SUBSTITUTIONS
3.	TERMINATE UNSHIELDED TWISTED PAIR CABLES ON RJ-45, 8-PIN MODULAR JACKS ON THE CLIENT END AND APPROVED

Data jack

568A Wiring Scheme		
		Pin
Pair 1	Bl	4
	WBl	5
Pair 2	WO	3
	O	6
Pair 3	WG	1
	G	2
Pair 4	wRr	7



Wall phone and data jack

All specifications same as Diagram 1 with the following exceptions:

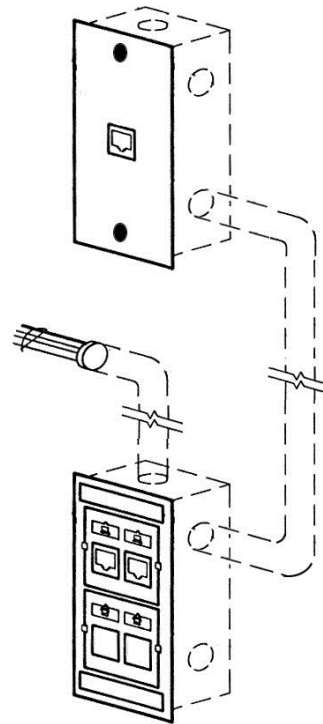
- ❑ Only jacks 1 and 2 wired for data as specified in Diagram 1, 2 blank covers on positions 3 & 4 of faceplate
- ❑ A second conduit to bring yellow cable to wall phone height, wired as shown below

Wall Telephone Jack
will be Allen Tel
AT219 or equivalent in
.....

Mapping	
Cat 6 cable	Jack
W/Bl	Green
Bl/W	Red
W/Or	Black
Or/Wh	Yellow

See Diagram 1 for details.

3-RJ-45 CAT 6
MODULAR TIA568A
JACKS (3 JACKS
#1 IVORY (blue
wire), #2 GRAY
(red wire)

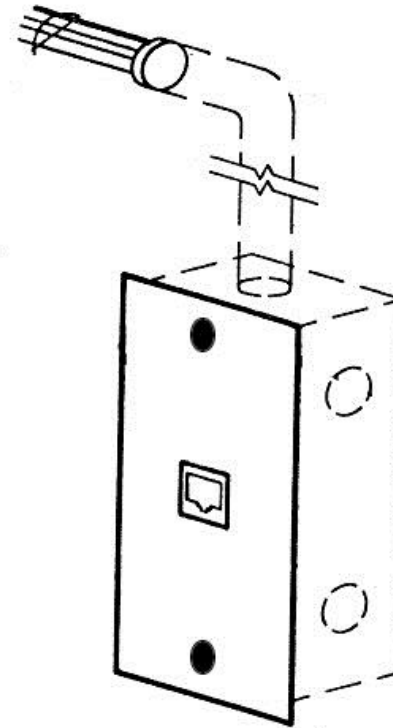


Wall phone only

The yellow wire is terminated to the jack. The red and purple wires are left unterminated, inside the box. Cable specifications are detailed in Diagram 1.

Wall Telephone Jack
will be Allen Tel
AT219 or equivalent in

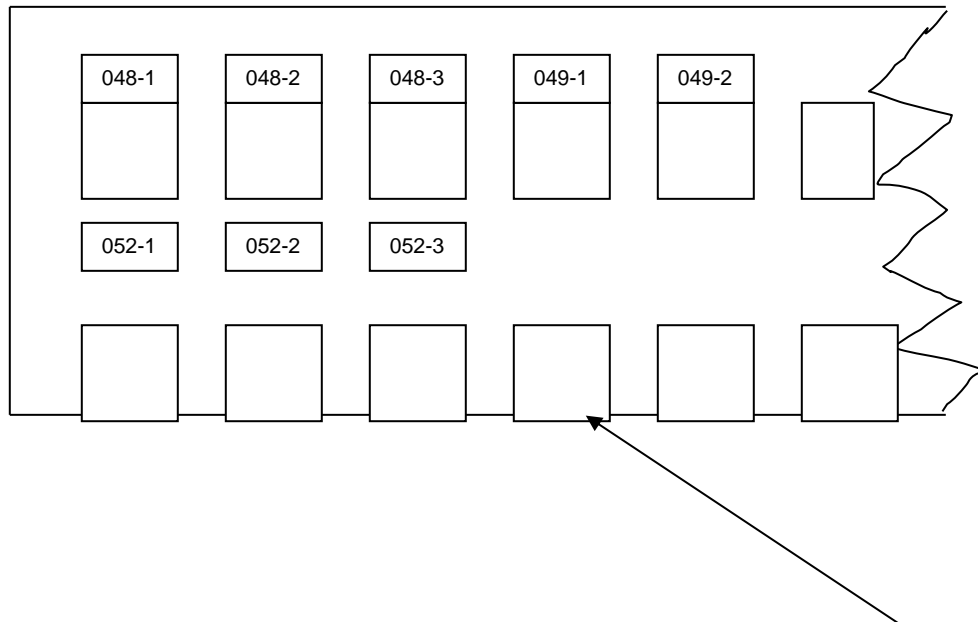
Mapping	
Cat 6 cable	Jack
W/Bl	Green
Bl/W	Red
W/Or	Black
Or/Wh	Yellow



See Diagram 1 for details.

3-RJ-45 CAT 6
MODULAR TIA568A
JACKS (3 JACKS
#1 IVORY (blue
wire), #2 GRAY
(red wire)

Patch Panel Example



Use the 1st available consecutive group of 3 ports (with no cables terminated to them) and use existing numbering scheme. In the above example, if there were 3 consecutive ports following 052-3, use those, and label 053-1, 2, and 3.

Patch panels are all wired to 568A standard. Follow existing punch down color codes on back of patch panel.

FIBER OPTIC CABLE FOR LOMA LINDA VA MEDICAL CENTER

All new fiber cable installed in the main hospital (building 1), shall be Multimode with ST Connectors unless otherwise specified by information Technology Service. Shall run to the first floor Computer Room (1C-04), Computer Room (3E-18), or the PBX in the basement and then run to the necessary service bay. Information Technology Services will determine end location of fiber runs. All fiber cable installed in interstitial spaces or basement will be ran in inner duct to protect the fiber cable. Fiber cable will be installed following manufacturer's guidelines and installation instructions.

All fiber for new buildings located on Loma Linda Medical Center property will run from the nearest service bay using multi mode fiber cable with ST connectors to run from the main building (building 1) to the computer hub room of the new building. Fiber shall run underground through appropriate conduit. Fiber shall not exceed 600 meter (1968')

All fiber shall be terminated at both ends and tested. Provide a detailed print out of test results to the (COTR) and information Technology.