

Fidler

Building Permits:

#00718-Geor. L. Simonds Co.-Repair Boiler Stack-\$3365.00-3-15-72

#00724-George L. Simonds Co.-Repair Trash Chute-\$1700.00-3-16-72

#Premise Permit#85939 dated 11-3-72, 598 units-11-3-72

Premise Permit 09664- fee \$150-8-31-76

#12194-S de Blasio dba S & S Improvments-Asphalt base for Tennis Court-\$6000-10-13-77

#23858 5/3/83 Se-Go Ind/Security Windows install 3 awning type windows \$441.

#25343 5/18/84 Airduct Inc demo of non-bearing walls and carpet \$1,100.

#MO6791 6/27/84 Chanin Air Inc - duct work only install 26 ceiling grills: note all supply and return ducts will be equipt with fire dampers valuation \$6,000.

Plumbing Permits:

#11062 Edwin H. Green Inc. 1 Swimming Pool Piping Re-do 2/10/69

#57728-Pro Plumbing- 2 risers-10-8-79

CUMULATIVE COST OF CONSTRUCTION OF PERMITS ISSUED

DATE	PROCESS	DESCRIPTION	WORK	CUMULATIVE	APPRAISED BLDG.			BUILDING
ISSUED	NO.	OF WORK	COST	WORK COST	VALUE BEFORE REMODEL	%	COMMENTS	PERMIT NO.
7/13/89		EXT. PR SSR CLEAN/PAINT, N Bldg 693 units	#815.00					B5891699 JSC

1500 Bay Rd

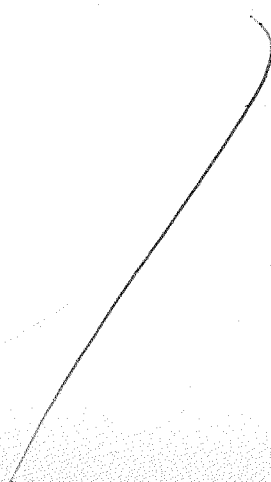
BUILDING PERMITS: #M9645 - Icee Corp. - 1-2 A/C central, duct work only - 12-23-87 Apt. 274
#M9672 - Acme Chute Co. - Chute Repairs - 1-5-88
#M8801383 - Alltmeper, Inc. - 1 A/C central - 8-31-88
#BS891699 - EDDY'S PAINTING & WTRPRFNG - EXT.PRSSR CLEAN/
PAINT-n BLDG 693 UNITS - 7-13-89 \$815.00
#BM891112 - A&B A/C - 29000 BTU A/C wind - 8-22-89
#BM890047 - J&T A/C - 1-29000 BTU A/C wind - 10-18-89

PLUMBING PERMITS: #64974 - 1 Bath Tub, 1 lavatory, 1 sinkc residence, 1 water closet - 1-14-88

ELECTRICAL PERMITS: #E8800034 - Borges Electrical Contractors - New smoke detectors installation-
10-7-88
#E8800335 - Borges Electrical - Smoke detector - 12-14-88
#E8800347 - Alltem Inc. - 12-19-88 - New central A/C unit

"60016 1/26/82 Rusty Plumbing - water pipe repair

Electrical Permits:



Building Permits:

- #62708 Westinghouse Electric Corp: Install 4 passenger elevators (automatic) 250' per minute, 15 HP motor, capacity 2500#, install 1 servive elevator (automatic) 200' per minute, 20 HP motor, capacity 3500#- \$165,000- Aug. 16, 1960
- #63445 Markowitz Bros: Install 1 fuel oil tank 1000 gal & 500 gal diesel oil tank both underground, Fire Dept #3976 on 10/27/60- \$1,000 - Nov. 2, 1960
- #63762 Acme Septic Co., Inc: Install underground drainage for parking area- Architect-Bailey Breedlove-\$13,000-11/30/60
- #63910 Robert L. Turchin: Connecting building to connect with existing building & future building - 2 stories - 216' front, 74' depth, 25' height - Mel Grossman, Architect - Oboler & Clark, Engineer - Conc. Piles - Accessory use as coffee shop and lounge on 2nd floor, stores on 1st floor - \$80,000.00 - Dec. 16, 1960 WC 2/18/63 LWL
- ~~#64212 Markowitz Plumbing & Heating, Inc: Install~~ #64407 (Heavy Construction) Inc: Remodel present dock - \$12,000- 3/15/61
Transferred To Little River Marine Construction Co.
- #64567 Miami Elevator: Install automatic elevator 2500#, 15 HP motor (passenger), this is in the 2-story connecting wing - \$8500 - April 10, 1961
- #64594 Brandon Air Conditioning Corp.: 2 3-ton cooling coils for dental office - \$600. - April 13, 1961 OK Plaag 4/28/61
City Council denied interpretation of Zoning ordinance to allow liquor license for this building as hotel with 100 or more guest rooms on May 3, 1961
- #67049 Claude Southern Corp.: 1.5 x 3', 4.5 sq. ft. - horizontal projecting sign - POLICE - STOP - \$125.00 - 4/5/62
- ZONING BOARD OF ADJUSTMENT ON: MARCH 15, 1963, DENIED REQUEST FOR OPERATION OF "TAKE OUT" SHOP IN CONJUNCTION WITH, BUT LOCATED IN SPACES OTHER THAN, THE EXISTING RESTAURANT FACILITY IN THIS BLDG.
- ON NOVEMBER 1, 1963 ZONING BD. OF ADJUSTMENT DENIED VARIANCE TO PERMIT OPERATION OF TV & RADIO REPAIR SHOP IN BASEMENT AREA. FILE #242.
- #14288 - American Davits Corp. - repair 20 timber dock and 20 timber mooring pile in the South dock facility - \$4,360. - 12/5/78
- #21334 12/11/81 Carruth Roofing - reroof \$300,000.

Plumbing Permits:

#42643 Markowitz Bros: 2 steam boilers - 11/2/60

- #42721 Markowitz Bros: 2 - Sewers, 12"-4", 7 water closets, 6 lavatories, 4 showers - Dec. 15, 1960
- #42745 Markowitz Bros: 2 gas boilers, 1 gas incinerator - Jan. 3, 1961
- #42812 M. S. Plbg: 5 lavatories, 3 dental chairs - Feb. 24, 1961 OK ROTHMAN 5/18/61
- #42820 Economy Plbg: 2 water closets, 2 lavatories, 1 gas line - March 8, 1961
- #42839 Economy Plbg: 4 temp. water closets, 1 water closet, 1 lavatory - 3/27/61 OK ROTHMAN 5/18/61
- #43530 Gunn Plbg. : 1- Lavatories, set; 1 shower 11/2/62 (Morton Towers Beauty Shop) OK Jenks 11/13/62
- #47062 Edwin M. Green Inc. 1 swimming pool piping re-do 2/10/69
- #56173-Rusty Plumbing- repairs to water piping-6-8-78 NORTH WING
- #57477-Pro Plumbing- repipe \$15- 1 riser-7-23-79
- #57553-Pro Plumbing- repipe riser-8-15-79

Electrical Permits:

- #55305 Max Belin: 4 light outlets, 4 fixtures, 1 center of distrib - 6/17/60(Fla Power & Light) OK 7/5/60 Fidler
- #56151 Lyon Elec: 1 Temp. Service - Dec. 12, 1960 OK 1/3/61 Fidler
- #56223 Max Belin: 1 Temp. Service - Dec. 29, 1960 OK 1/3/61 Fidler
- #56342 Max Belin: 200 receptacles, 50 light outlets, 50 fixtures - 2-9-61
- #56355 Max Belin: 3 switch outlets, 6 receptacles, 10 light outlets, 10 fixtures- 2/16/61
- #56450 Jones Elec: 2 Telephone Booths - March 17, 1961
- #56552 Angler Elec: 10 switch outlets, 20 receptacles, 12 light outlets, 12 fixtures, 6 appliance outlets, 2 motors(1HP), 1 radio intercom - April 10, 1961 OK Fidler 6/22/61
- #64020 M. B. Electrical Exhib. Serv.: 32 fixtures; 2 motors, 2-5 hp; 2 cent. of dist. - 10/13/66

CUMULATIVE COST OF CONSTRUCTION OF PERMITS ISSUED

DATE	PROCESS	DESCRIPTION	WORK	CUMULATIVE	APPRAISED BLDG.			BUILDING
ISSUED	NO.	OF WORK	COST	WORK COST	VALUE BEFORE REMODEL	%	COMMENTS	PERMIT NO.
6-12-89		REPLACE 400 EXT DOORS (PERM. PEAD. 800 MORE)	\$25,000.00					58891453

BUILDING PERMITS: #SB891443 - Francisco Duques - 6-12-89 - Replace 400 ext. doors (Perm. Pend.
800 More) - \$25,000.00

552 PARATING SPACES PROVIDED AS REQUIRED. FOR BOTH NORTH AND SOUTH WINGS - SOUTH WING SHOWN ON PERMIT #61257
TOTAL APARTMENTS FOR BOTH WINGS ARE 1291 APARTMENTS.

Owner MORTON TOWERS CO. (NORTH WING)

Permit No. 64529

Cost \$4,000,000.

OK BLDG.
Saperstein
3/27/62

Lot 7 Block 43 Subdivision ALTON BEACH BAY

Address 1500 Bay Road

General Contractor Robert L. Turchin, Inc.

Bond No. 3233-07-003

Architect Melvin Grossman

Engineer Oboler & Clark

Zoning Regulations: Use BAA

Area 8

Lot Size 400 x 1100 Irreg.

Building Size: Front 64'

Depth 600'

Height 150'

Stories 14

Certificate of Occupancy No. Temp. #3844 dated 11/27/61

Use APT. 270 Eff. 228 1BR, 1Bath; 151 2BRm, 2Bath

Type of Construction CBS I Temp. #3848 dated 12/5/61

(Total Units - 693) 44 1-Bdrm, 1 1/2 Bath

Foundation Conc. Piles

Root Flat

Date APRIL 5, 1961

PLUMBING Contractor Dade Plumbing Co. #42880

Sewer Connection - 1, 8"

Date May 11, 1961

Temporary Water Closet

Water Closets 833

Lavatories 834

Bath Tubs 684

Showers 149

Urinals 2

Sinks 679

Slop Sink: 1

Dish Washing Machine

Laundry Trays 13

Laundry Washing Machines

Drinking Fountains

Floor Drains 16

Grease Traps

Safe Wastes

AIR CONDITIONING Contractor #64956 - Imec of Fla., Inc. - \$165,000. - 550 tons air cond. system, north & central bldg.

SEPTIC TANK Contractor

OIL BURNER Contractor 1

SPRINKLER Contractor

Sill Cocks - 6

Swimming Pool Traps

Steam or Hot Water Boilers 2

ROUGH APPROVAL

FINAL APPROVAL OK ROTHMAN 3/26/62

GAS Contractor

Gas Ranges

Gas Water Heaters

Gas Space Heaters

Gas Refrigerators

Gas Steam Tables

Gas Boilers

GAS Rough APPROVAL

GAS FINAL APPROVAL

Date

Gas Frylators

Gas Pressing Machine

Gas Vents for Stove

Down Spouts 4

Wells

#3227
=

ELECTRICAL Contractor #56759 Max Belin Date May 23, 1961

OUTLETS Switches 4275 Ranges 679 Temporary Service

Lights 4337 Irons 679 Neon Transformers

Receptacles 6210 Refrigerators 679 Sign Outlets

Fans Meter Change

Motors 700, 0-1 h.p. Centers of Distributions 725

HEATERS Water Appliances 4, 2-5 h.p. Service Equip. - 1

Space 11, 6-10 hp Violations

2, 11-25 hp

AL APPROVAL

Scarborough

3/27/62

11-15-61 City Council approved grant of liquor license to Morton Towers. Spot Survey - T.J.F. - 5/8/62

Building Permits:

Premise Permit #85938 dated 11-3-1972, 693 units, \$150-11-3-72

#88970-Atlantic Building-Interior alterations-\$5000-12-19-75

#08647-Acolite Sign-Pole Sign-\$200-2-23-76 Washington Federal

#08648-Acolite Sign-Flat Wall Sign-\$100-2-23-76-Washington Federal

#09664-Premise Permit-fee \$150-8-31-76

#13651-Owner-Repair boat dock, railings and dock-\$3000-8-3-78

#13686-Owner-Repairing, plastering and tile walls-\$5000-8-11-78

#13741-American Davits Corp.-Repair 64 timber dock piles and 9timbers morring pile on the north dock facility-\$7950-8-22-73

#15466-James M. Anderson, Inc.-Repair walkway along seawall-\$5500-809-79

#17389-Acolite Sign-Washington Savings-Sign-\$300-1-17-80

#17388-Acolite Sign-Washington Savings- Signs-\$300-1-17-80

~~#M05620xxx2/1/82xxxRustyxxPlumbingxx~~

#31338 - 11-18-87 - Rebuild Construction - Fire Damaged - \$35,000.00 C

BUILDING PERMITS CONTINUED: #25898 9/13/84 Claude Maint add 2'x6' s/f panel to exist pylon 12 sq.ft. \$250.
#MO8180 6/16/86 Sam L. Hamilton Inc - air cond wind, l e est val \$3,250. exact replace
#29688 1/12/87 owner remove old fence and install a masonry wall 5 t hi same location \$4,700.
#29794 2/5/87 owner interior painting and plastering super market \$200.

ELECTRICAL PERMITS: #79871 11/21/84 GHC Elect - replace starter for exhaust fans gen
#79955 1/8/85 GHC Elect - 10 recept, replacement of old outlets on dock
#81242 7/28/86 Holbrook Elec - 250 hp motor

PLUMBING PERMITS #61884 12/13/84 Peoples Gas - 1 meter set gas

#55330-Greens Pool Service- 1 filter replacement pool-10-11-776

#56155-Greens Pools- 1 water supply to swimming pool-6-8-78

Electrical Permits: #56557 Max Belin: 1 Sub-Feeder - Apr. 11, 1961

#56558 Max Belin: 1 Sub-Feeder - April 11, 1961

#56682 Max Berlin on Morton Towers Rental Office: 6 switch outlets, 7 receptacles, 6 light outlets, 21 fixtures, 1 center of distribution, 1 service equipment, 1 motor 2-5 HP; 5/5/61

#57894 Claude Southern: 8 light outlets - 2/9/62 (Bldg. Permit #66805)

#58026 Tri-City Elec. Co., Inc.: 7 fixtures - 3/22/62 OK Scarborough 4/2/62

#58043 Tri-City Elec. Co., Inc.: 10 light outlets; 10 fixtures - 3/28/62 OK Scarborough 4/2/62

#58096 Astor Elec: violation - 4/10/62 OK SCARBOROUGH 4/10/62

#58235 Ben's Elec.: 8 fixtures - 5/23/62 OK Scarborough 6/9/62

#58354 Ben's Elec.: 2 fixtures - 6/18/62 OK Scarborough 6/15/62

#59635 Ben's Elec: 2 appliance outlets-5/23/63

#62078 Acolite Sign Co.: 2 Neon Transformers - 3/15/65

#67520 Miami Beach Elec Ex Service: 6 light outlets, 6 fixtures 11/19/69

#67719 - Holbert Elect. - 1120 15th St. - 1 motors 2-5 HP 2/20/70

#72368- Levitz Electric- Fire Protectin System 2 central system 252 outlets-6-27-75

ALTERATIONS OR REPAIRS

Building Permits: #65131 Westinghouse Elec Corp: 4 passenger elevators, capacity 2500# - 15 hp motors; 1 freight elevator, 2500# - 15 hp motor - \$185,000.00 - June 15, 1961

#66407 R. L. Turchin: 80' x 36' concrete pool on piling - State Board of Health Approval Serial #SP 1-303, 9/8/61 - \$35,000. - 11/21/61 (Melvin Grossman, Architect; John K. Sasnett, Engineer) WC 2/18/63 LWL

#66597 Morton Feit Refrigeration: Install kitchen refrigeration machines - \$3600. - 12/28/61 OK Plaag 1/12/62

#66805 Claude Southern: Roof sign, plastic face, internally illuminated "Morton Towers" - (on guard house) - \$700, 2/9/62

#68332 Little River Marine Construction Co: Replace existing dock - 5,960.00 10/29/62

ON JUNE 14, 1963, ZONING BD. OF ADJUSTMENT DENIED PUBLIC HEARING FOR VARIANCE TO PERMIT OPERATION OF TV & RADIO REPAIR SHOP IN BASEMENT AREA, NOT VISIBLE FROM PUBLIC WAY & NOT ADVERTISED TO EXTERIOR OF BLDG. (211)

#73703 Acolite Neon Sign Co.: 6 x 10 roof sign MORTON TOWERS - \$500 - 3/15/65

#80467 Atlantic Foundations Inc. Repair 50' of Sea Wall as per plan \$5500.00 6/13/68 *OK by HAN 10/25/67*

#22031 4/16/82 Signs of All Kinds - erect sign and change of copy \$1,000.

#23855 5/3/83 Se-Go Ind/Security Windows install 2 sliding glass doors 15th fl remove old install \$850.

#MO6264 7/1/83 Airko Air Cond - exact changeout \$8,000 replace of primary air unit 47 tons no heat

#MO6810 7/5/84 Commercial Installers mech ventilation,

#91321 7/16/84 Turchin Bros - partitions, ceiling, bathrooms, lighting, (exist diningroom) \$78,000.

#25623 7/18/84 Hydro Clean Inc - exterior painting white only \$3,700.

PLUMBING PERMITS

#61661 7/25/84 Right Way Plumb - 1 rgh, 1 set dishwasher, 2 rgh, 2 set floor drain, 6 rgh, 6 set lavatory
2 rgh, 2 set sink pot/3 comp, 1 rgh, 1 set sink slop, 2 rgh, 2 set urinal, 6 rgh, 6 set water closet
14 indirect wastes, 4 gas range

ELECTRICAL PERMITS

#78298 11/29/82 Ocean Elect - 1 switch outlet, 1 motor 0-1 hp

#79629 8/7/84 - Bennett Elec Serv - 18 switch outlets, 101 light outlets, 35 receptacles, 12 appliance outlets, 1 water heater, 7 comm. outlets, 185 fixtures, 100 A service amp's \$204.75

#79702 9/13/84 Claude Maint 2 sign tubes

#79720 9/21/84 GHC Elect - 220 fixtures,

Electrical Permits:

#72844-Branam Electric- 5 switch outlets; 10 light outlets; 25 receptacles; 80 fixtures-1-12-76

#72928-Acolite Sign- 3 lamps-Washington Federal-2-23-76

#82578 - Florida Protective Lines Inc. - 977 Smoke Detectors - 11-16-87

#82610 - Cayamas Electric - 5 Switch outlets, 5 light outlets, 9 receptacles, 1 service size in amp's 100A, 2 appliance outlets, 1 range top, 1 oven, 1 water heater, 1 A/C - 11-23-87

COASTAL CONTROL ZONE

CUMULATIVE COST OF CONSTRUCTION OF PERMITS ISSUED

DATE	PROCESS	DESCRIPTION	WORK	CUMULATIVE	APPRAISED BLDG.			BUILDING
ISSUED	NO.	OF WORK	COST	WORK COST	VALUE BEFORE REMODEL	%	COMMENTS	PERMIT NO.
1-12-87		NEW MASONRY WALL	\$4700	\$4700				29688
2-5-87		PAINT and plaster ext.	200	4900				29794.
11-18-87		FIRE DAMAGED	\$35,000.00					31338

Owner Y. M. & Y. W. H. A.
COMMUNITY CENTER

8075

Permit No. 25197

Cost \$60,000.-

Lot 6

Block 43

Subdivision Alton Beach Bay
Front

Address 1536 Bay Road

General Contractor King Dansky

Architect A. Herbert Mathes

Bond No. Priority #40-20-5

Engineer Approved City Council: May 21/47

Zoning Regulations: Use RE

Area 8

Lot Size 227 x 624

Building Size: Front 49

Depth 176'8

Height 18

Stories 1

Certificate of Occupancy No.

Use

Type of Construction #1 c/b/s

Foundation concrete piling

Roof concrete slab

Date August 19/47

PLUMBING Contractor #25492 - C. Ray Martin
#26157 - C. Ray Martin

Sewer Connection 1

Date Aug. 19/47

Temporary Water Closet 2

Water Closets 10

Lavatories 7

Bath Tubs

Showers 2-outside stalls

Urinals 3

Sinks 1 (kitchen); 2 (slop)

Dish Washing Machine

Laundry Trays

Laundry Washing Machines

Drinking Fountains 2

Floor Drains

Grease Traps

Safe Wastes

AIR CONDITIONING Contractor

SEPTIC TANK Contractor 1- 400 gals.

OIL BURNER Contractor

SPRINKLER Contractor

Swimming Pool Traps

Steam or Hot Water Boilers

ROUGH APPROVAL

FINAL APPROVAL

Down Spouts

Wells

GAS Contractor

Gas Ranges

Gas Water Heaters

Gas Space Heaters

Gas Refrigerators

Gas Steam Tables

Gas Broilers

Gas Stoves: 1

Gas Heaters: 1 (water)

GAS TURNED ON, APPROVED: O'NEIL, MARCH 19/48

Date

Gas Frylators

Gas Pressing Machine

Gas Vents for Stove

GAS Rough APPROVAL

GAS FINAL APPROVAL

ELECTRICAL Contractor #25783, Astro; #25319, Astor Date 2/3/48; 11/25/47

OUTLETS Switches 44

Ranges

Temporary Service

Lights 72-6

Irons

Neon Transformers

Receptacles 36

Refrigerators 1

Sign Outlets

Fans

Meter Change

Motors

Centers of Distributions 3

HEATERS Water

Appliances

Service

Space

Violations

FIXTURES 80, 12

Electrical Contractor

Date

FINAL APPROVAL

By

Date

Alterations or Repairs Over

ALTERATIONS & ADDITIONS

#31390 - addition, of screened playroom - M. Ungaro, architect; Robert Turchen, contr.,
8x12x8 - 1 story, spread footing, foundation, gravel, roof - \$600.-

Building Permits:

Nov. 14/49

- #56426 - Giller & Fryd: 20'6 x 127'4 addition along north side of present building, 14' high,
7 additional school rooms, approval of City Council, June 4/58 - \$10,000.00 - June 11/58 -
Gilbert Fein, arch., Morton Fellman, Engineer, concrete piles, cbs II, flat roof 8/9/62
- #67428 - Miami Air Conditioning; 1 -15/ton pkg. unit a/c system (used) - \$3000.00 - 6/12/62 OK, PLAAG
- #73899 - Kwart Sheet Metal Works: exhaust fan, duct, & hood - \$600.- 4/19/65, OK, PLAAG, 4/21/65
- #80715 - J & M Engineering - demolish 140' of cbs on N.E. corner of property, \$600.- 7/25/68

#14247-Keyes-For Sale ign-11-27-78

Plumbing Permits:

Electrical Permits:

- #25069 - Astor Electric; 12 light outlets, partial
- #27842 - Astor Electric; 1 switch outlet, 1 light outlet; 5 receptacles; 11/7/48
- #53166 - Jonesey Electric - 6 switch outlets, 11 receptacles, 10 light outlets, 14 fixtures, 1 center of
distribution, 1 service equipment, January 5/59
- #58558 - Gates Electric - 1 service equipment, 1 motor, 0-1 hp; 1 motor, 2-5 hp; 1 motor, 11-25 hp;
7/30/62 - OK, FIDDER - 10/19/62

BUILDING PERMITS: #92467 - 3-18-88 - Caribe Const. and Paving - Repave existing paving area, fill area with gravel stones to allow more clean parking spaces - \$12,500.00
#SB880096 - 10-24-88 - Owner - Repair coral rock fence - \$580.00 *OK*

CUMULATIVE COST OF CONSTRUCTION OF PERMITS ISSUED	
1960	100
1961	100
1962	100
1963	100
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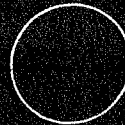
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6954 N.W. 12 STREET, MIAMI, FLORIDA 33126
105-477-9149 • 800-287-4709 • FAX 305-477-7528

305 774

CASE

THIS IS TO CERTIFY THAT AMERICAN MICRO-IMAGE, INC.
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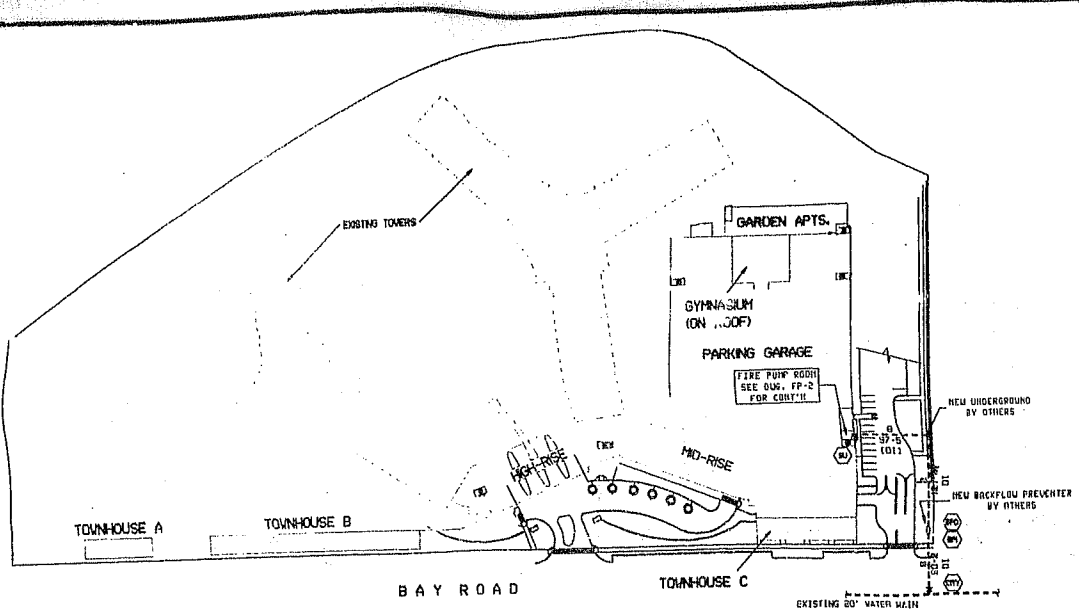
microscopy resolution test chart
NBS 1010-A (1963) 1993 edition

LACOM

The Information Management Company

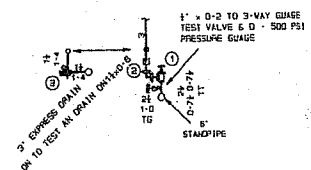
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3000 1111



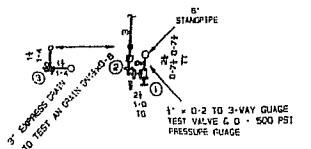
UNDERGROUND SITE PLAN
SCALE: 1"=100'

WATER FLOW TEST
STATIC: 60 PSI
RESIDUAL: 55 PSI
FLOW: 1300 GPM



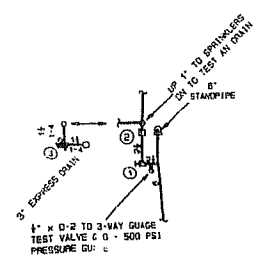
- 21" PORTLAND CEMENT CONCRETE
- POTTER-ROEMER VANE TYPE FLOW SWITCH
- AGF MODEL 10111 TEST AND DRAIN VALVE WITH 1/2" ORIFICE

SPRINKLER SUPPLY
DETAIL P2N / P2N1 / P2N2 / P2N3



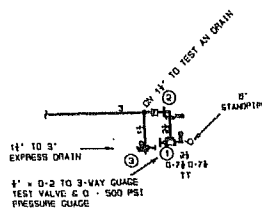
- 21" PORTLAND CEMENT CONCRETE
- POTTER-ROEMER VANE TYPE FLOW SWITCH
- AGF MODEL 10111 TEST AND DRAIN VALVE WITH 1/2" ORIFICE

SPRINKLER SUPPLY
DETAIL P2N & P2N1



- 21" PORTLAND CEMENT CONCRETE
- POTTER-ROEMER VANE TYPE FLOW SWITCH
- AGF MODEL 10111 TEST AND DRAIN VALVE WITH 1/2" ORIFICE

SPRINKLER SUPPLY
DETAIL P2N



- 21" PORTLAND CEMENT CONCRETE
- POTTER-ROEMER VANE TYPE FLOW SWITCH
- AGF MODEL 10111 TEST AND DRAIN VALVE WITH 1/2" ORIFICE

SPRINKLER SUPPLY
DETAIL P2N / P2N1

DRAWING	DESCRIPTION
FP-1	SYSTEM INDEX, MATERIAL NOTES, ETC.
FP-2	FIRE PUMP PIPING PLAN
FP-3	STANDPIPE 1, 2 AND 3
FP-4	STANDPIPE 4, 5, 7, AND 18
FP-5	TOWNHOUSE A
FP-6	TOWNHOUSE B
FP-7	HIGH-RISE GROUND FLOOR (NORTH)
FP-8	PARKING GARAGE GROUND FLOOR (NORTHWEST)
FP-9	HIGH-RISE 2ND FLOOR (SOUTH)
FP-10	HIGH-RISE 2ND FLOOR (NORTH)
FP-11	PARKING GARAGE 2ND FLOOR (NORTHWEST)
FP-12	HIGH-RISE 3RD FLOOR (SOUTH)
FP-13	HIGH-RISE 3RD FLOOR (NORTH)
FP-14	PARKING GARAGE 3RD FLOOR (NORTHWEST)
FP-15	PARKING GARAGE 4TH FLOOR (SOUTH)
FP-16	PARKING GARAGE 4TH FLOOR (NORTH)
FP-17	PARKING GARAGE 4TH FLOOR (NORTHWEST)
FP-18	PARKING GARAGE 5TH FLOOR (SOUTH)
FP-19	PARKING GARAGE 5TH FLOOR (NORTH)
FP-20	PARKING GARAGE 5TH FLOOR (NORTHWEST)
FP-21	PARKING GARAGE 6TH FLOOR (SOUTH)
FP-22	PARKING GARAGE 6TH FLOOR (NORTH)
FP-23	PARKING GARAGE 6TH FLOOR (NORTHWEST)
FP-24	7TH FLOOR (SOUTH)
FP-25	7TH FLOOR (NORTH)
FP-26	7TH FLOOR (NORTHWEST)
FP-27	8TH - 14TH FLOOR (SOUTH) EVEN # FLOORS
FP-28	8TH - 14TH FLOOR (NORTH) EVEN # FLOORS
FP-29	8TH - 14TH FLOOR (SOUTH) ODD # FLOORS
FP-30	8TH - 14TH FLOOR (NORTH) ODD # FLOORS
FP-31	15TH FLOOR
FP-32	16TH FLOOR
FP-33	17TH FLOOR
FP-34	18TH - 32ND FLOORS - EVEN # FLOORS
FP-35	18TH - 32ND FLOORS - ODD # FLOORS
FP-36	DETAIL SUITES A1 & B1 THRU B7
FP-37	DETAIL SUITES B8 & C1 THRU C7
FP-38	DETAIL SUITES C8 THRU C13, D1 & D2
FP-39	DETAIL SUITES D3, D6, D7, D8 & D15
FP-40	DETAIL SUITES D6, D8, D9, D10 & D11
FP-41	GYMNASIUM
FP-42	EXPRESS DRAIN RISERS

DRAWING NOTES

SCOPE OF PROJECT

- THIS PROJECT CONSISTS OF 413 32 STORY HIGH RISE, (113 11 FLOOR TOWERS), (113 7 STORY PARKING GARAGE), A 3 LEVEL GYMNASIUM AND TOWNHOUSE.
- THERE ARE TWO EXISTING APARTMENT TOWERS ON SITE WHICH WILL BE CONNECTED TO THE NEW BUILDINGS. (113 11 FLOOR)
- GYMNASIUM SCOPE IS TO PROVIDE 100% SPRINKLER PROTECTION IN ALL AREAS OF THE "NEW" FACILITY.
- THERE IS AN EXISTING FIRE PUMP LOCATED ADJACENT TO THE EXISTING TOWER WHICH IS TO BE RELOCATED TO A NEW ROOM IN THE PARKING GARAGE FIRST FLOOR.

SPRINKLER SYSTEM DESIGN

- THIS FACILITY IS PROTECTED BY WET PIPE AUTOMATIC SPRINKLER SYSTEM. DESIGN IS BASED ON NFPA 13 (1999) NFPA 13A (1999) NFPA 13B (1999) NFPA 13C (1999) NFPA 13D (1999) NFPA 13E (1999) NFPA 13F (1999) NFPA 13G (1999) NFPA 13H (1999) NFPA 13I (1999) NFPA 13J (1999) NFPA 13K (1999) NFPA 13L (1999) NFPA 13M (1999) NFPA 13N (1999) NFPA 13O (1999) NFPA 13P (1999) NFPA 13Q (1999) NFPA 13R (1999) NFPA 13S (1999) NFPA 13T (1999) NFPA 13U (1999) NFPA 13V (1999) NFPA 13W (1999) NFPA 13X (1999) NFPA 13Y (1999) NFPA 13Z (1999) NFPA 13AA (1999) NFPA 13AB (1999) NFPA 13AC (1999) NFPA 13AD (1999) NFPA 13AE (1999) NFPA 13AF (1999) NFPA 13AG (1999) NFPA 13AH (1999) NFPA 13AI (1999) NFPA 13AJ (1999) NFPA 13AK (1999) NFPA 13AL (1999) NFPA 13AM (1999) NFPA 13AN (1999) NFPA 13AO (1999) NFPA 13AP (1999) NFPA 13AQ (1999) NFPA 13AR (1999) NFPA 13AS (1999) NFPA 13AT (1999) NFPA 13AU (1999) NFPA 13AV (1999) NFPA 13AW (1999) NFPA 13AX (1999) NFPA 13AY (1999) NFPA 13AZ (1999) NFPA 13BA (1999) NFPA 13BB (1999) NFPA 13BC (1999) NFPA 13BD (1999) NFPA 13BE (1999) NFPA 13BF (1999) NFPA 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MATERIAL NOTES

- PIPE:
 - 1" - 2" (EXCEPT RESIDENTIAL) SHALL BE "ALLOY" SCHEDULE 40 (EXCEPTABLE LIGHTWALL).
 - 2" - 4" (EXCEPT RESIDENTIAL) SHALL BE "ALLOY" SCHEDULE 40 (EXCEPTABLE LIGHTWALL).
 - 4" - 6" (EXCEPT RESIDENTIAL) SHALL BE "ALLOY" SCHEDULE 40 (EXCEPTABLE LIGHTWALL).
 - 6" AND LARGER TO BE "ALLOY" SCHEDULE 40 (EXCEPTABLE LIGHTWALL).
- ALL PIPE PENETRATING A WALL TO THE OUTSIDE SHALL BE GALVANIZED.

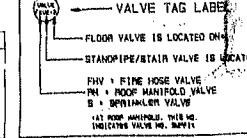
FITTINGS:

- ALL SWEATED FITTINGS SHALL BE 1/2" OR 3/4" (EXCEPTABLE LIGHTWALL).
- ALL SWEATED FITTINGS BETWEEN FIRE PUMP AND FLOOR CONTROL VALVES SHALL BE CLASS 250 EXTRA HEAVY.
- ALL GROOVED FITTINGS TO BE "GRUYLOK" SCHEDULE 40 (EXCEPTABLE LIGHTWALL).
- ALL GROOVED COUPLINGS TO BE "GRUYLOK" FIG. 701 STANDARD.
- ALL GROOVED REDUCING COUPLINGS (GR) TO BE "GRUYLOK" FIG. 702 REDUCING.
- ALL GROOVED FLANGES TO BE "GRUYLOK" FIG. 703.
- ALL FITTINGS IN RESIDENTIAL AREAS ARE TO BE CUL.

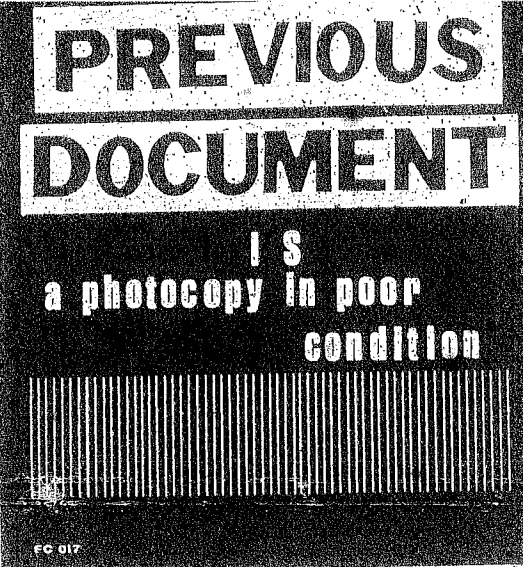
HANGERS:

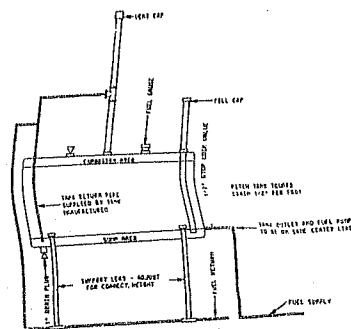
- ALL HANGER MATERIAL MAY BE OF BLACK MATERIAL.

VALVE TAG LEGEND

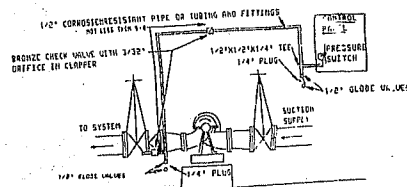


THIS PLAN HAS BEEN REVIEWED FOR THE APPEARANCE OF ITS HEAD LINES AND FOR CONFORMANCE WITH THE CITY OF MIAMI AS REPRESENTED





DIESEL FUEL TANK DETAIL
NOT TO SCALE



FIRE PUMP SENSING LINE DETAIL
NOT TO SCALE

6" X-HEAVY PUMP TEST HEADER W/
(4) 2" ANGLE HOSE VALVES, CAPS &
CHAINS

359 GAL DOUBLE WALLED FUEL OIL
TANK (320 GAL USABLE). AUTOMATIC
FUEL DELIVERY SYSTEM, PIPING,
IN TANK DEVICES AND CONTROLS BY
OTHERS. MOUNT ON PIPE LEGS TO
ELEVATION SHOWN.

AURORA MODEL 6-485-17A AUTOMATIC
FIRE PUMP, 1000 GPM @ 225 PSI W/
285 HP DETROIT DIESEL ENGINE
MODEL DDFP-L6FA THIS IS AN EXISTING
FIRE PUMP TO BE RELOCATED AS
SHOWN.

NOTE:
WALLS, DOORS AND BEAMS MUST BE
POSTPONED UNTIL AFTER THE FIRE
PUMP IS INSTALLED.

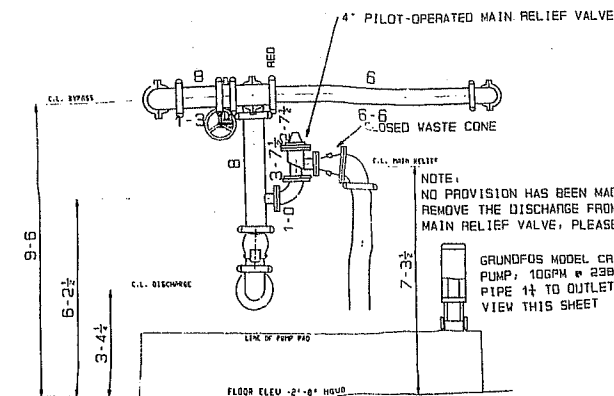
NOTE:
THIS FIRE PUMP IS CURRENTLY INSTALLED
WITH A 4" PILOT ACTUATED MAIN RELIEF
VALVE. THIS VALVE IS NOT REQUIRED BY
CONSIDERED DESIRABLE BY NFPA 20
IF IT IS REQUIRED BY THE P.E. OR ARCH
PLEASE ADVISE AND PROVIDE AN 8" TRAIN
LINE TO REMOVE THE DISCHARGE TO A
SAFE LOCATION

CONT'D PP-07

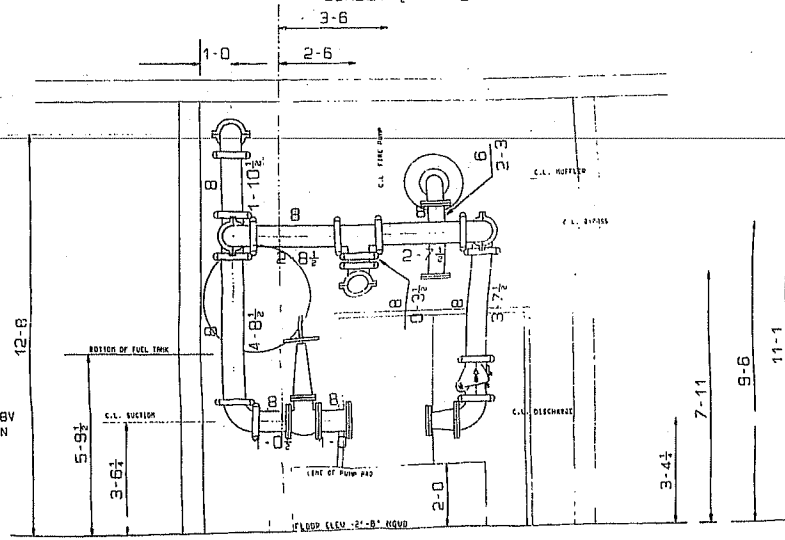
CONT'D PP-07

FIRE PUMP ROOM

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



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



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

THIS PLAN HAS BEEN REVIEWED FOR THE
APPEARANCE OF ITS HEAD LOCATIONS
AND FOR CONCEALMENT OF PIPE WITHIN
THE CEILING AS REPRESENTED. IT IS
APPROVED FOR INSTALLATION AS SHOWN.

OWNER _____ DATE _____
ARCHITECT _____ DATE _____
GENERAL CONT _____ DATE _____

STEVEN FELLER, P.E. INC.
CONSULTING ENGINEERS
2701 W. ORLAND PARK BLVD., SUITE 310
ORLAND PARK, FL 33211 954-777-7400



IMPORTANT:
THIS PLAN IS SUBJECT TO THE
REVISIONS AND MODIFICATIONS
MADE BY THE ENGINEER. THE
OWNER AND ARCHITECT ARE
RESPONSIBLE FOR THE
CORRECTNESS OF THE
INFORMATION SHOWN HEREON.
NO WARRANTY IS MADE BY
THE ENGINEER FOR THE
CORRECTNESS OF THE
INFORMATION SHOWN HEREON.
NO WARRANTY IS MADE BY
THE ENGINEER FOR THE
CORRECTNESS OF THE
INFORMATION SHOWN HEREON.

CONTRACT RESPONSIBILITIES

ITEM	RESP.
CITY CONNECTION	OWNER
UNDERGROUND EXCAVATIONS	OWNER
BRACKETING	OWNER
PIPELINES	OWNER

SYMBOLS

SYMBOL	DESCRIPTION
(Symbol)	6" X-HEAVY PUMP TEST HEADER
(Symbol)	359 GAL DOUBLE WALLED FUEL OIL TANK
(Symbol)	AURORA MODEL 6-485-17A AUTOMATIC FIRE PUMP
(Symbol)	4" PILOT-OPERATED MAIN RELIEF VALVE
(Symbol)	CLOSED WASTE CONE
(Symbol)	GRUNDFOS MODEL CR2-150U JOCKEY PUMP

SPRINKLERS/NOZZLES

MODEL	STYLE	NOT	K	UNITICE	TEMP	RESPONSE	FINISH	EXECUTION	NOTES	SYMBOL	QTY.
68	UPRIGHT	1/2"	5.4	1/2"	150	QUICK	WHITE	RECEIVED	WHITE CORROSPROOF FINISH	(Symbol)	1
68	UPRIGHT	1/2"	5.4	1/2"	150	QUICK	WHITE	RECEIVED	WHITE CORROSPROOF FINISH	(Symbol)	1
68	UPRIGHT	1/2"	5.4	1/2"	150	QUICK	WHITE	RECEIVED	WHITE CORROSPROOF FINISH	(Symbol)	1

ABBREVIATIONS

ABBREVIATION	DESCRIPTION
AC	AIR CONDITIONING
AD	ADDITIONAL
AL	ALUMINUM
AS	AS SHOWN
AT	AT THE
BE	BEHIND
BT	BETWEEN
BY	BY
CA	CAREFULLY
CD	CEDAR
CE	CEMENT
CF	CORRUGATED FIBER
CG	CORRUGATED GALVANIZED
CH	CHINA
CI	CORRUGATED INVERTED
CL	CORRUGATED LUMBER
CM	CORRUGATED METAL
CO	CORRUGATED OIL
CP	CORRUGATED PLASTER
CQ	CORRUGATED QUARTZ
CR	CORRUGATED RUBBER
CS	CORRUGATED STEEL
CT	CORRUGATED TANK
CU	CORRUGATED CUP
CV	CORRUGATED VALVE
CW	CORRUGATED WOOD
CX	CORRUGATED X
CY	CORRUGATED Y
CZ	CORRUGATED Z

Brinnell Fire Protection
EXECUTIVE OFFICE - MIAMI, FL 33131
LOCAL OFFICE: 2701 W. ORLAND PARK BLVD., SUITE 310, ORLAND PARK, FL 33211

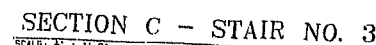
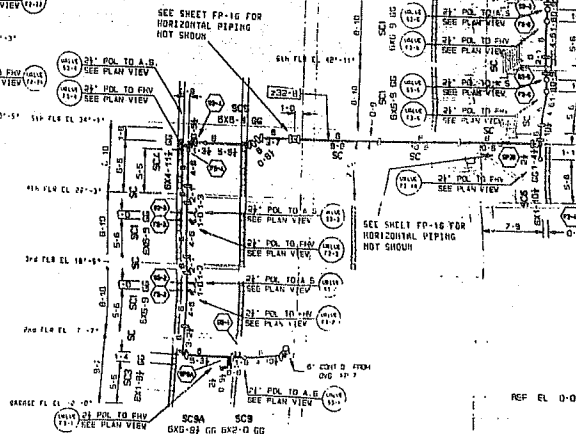
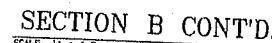
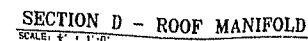
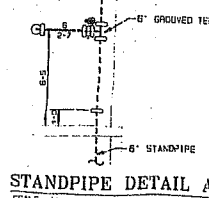
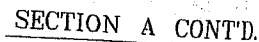
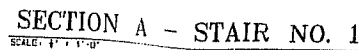
Brinnell Fire Protection
EXECUTIVE OFFICE - MIAMI, FL 33131
LOCAL OFFICE: 2701 W. ORLAND PARK BLVD., SUITE 310, ORLAND PARK, FL 33211

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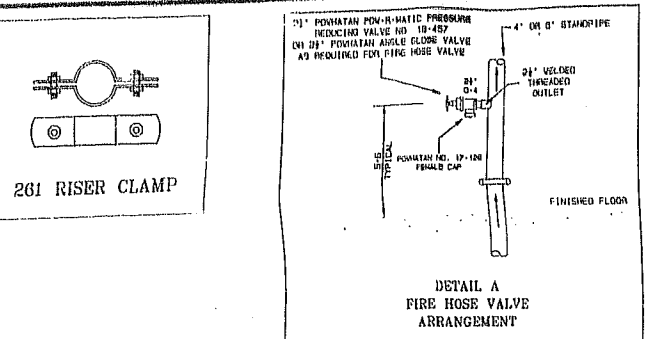
SYSTEM INFO		THE GRAND FLAMINGO	
SYSTEM	TYPE	1800 BAY ROAD	MIAMI BEACH, FLORIDA
DESIGNER	DATE	27-427841-01	DATE: MAY 12, 2000
OWNER	DATE	DATE: MAY 12, 2000	DATE: MAY 12, 2000
ARCHITECT	DATE	DATE: MAY 12, 2000	DATE: MAY 12, 2000
GENERAL CONT	DATE	DATE: MAY 12, 2000	DATE: MAY 12, 2000



GENERAL NOTES

- 1 THIS DRAWING DEPICTS THE VERTICAL STAKEPIE RISERS LOCATED IN STAIN NOS. 1, 2 AND 3
2 THE STAKEPIE SYSTEM IS DESIGNED TO FLOW 250 GPM FROM EACH OF THE TWO TIE
3 100% V.L. TO AT 100 PSI + 250 GPM ALLOWED FOR EACH OF 2 ADDITIONAL STAKEPIES
4 SEE DRAWING SP-1 FOR SITE PLAN, MATERIAL NOTES, SYSTEM INDEX AND MISC. DETAILS

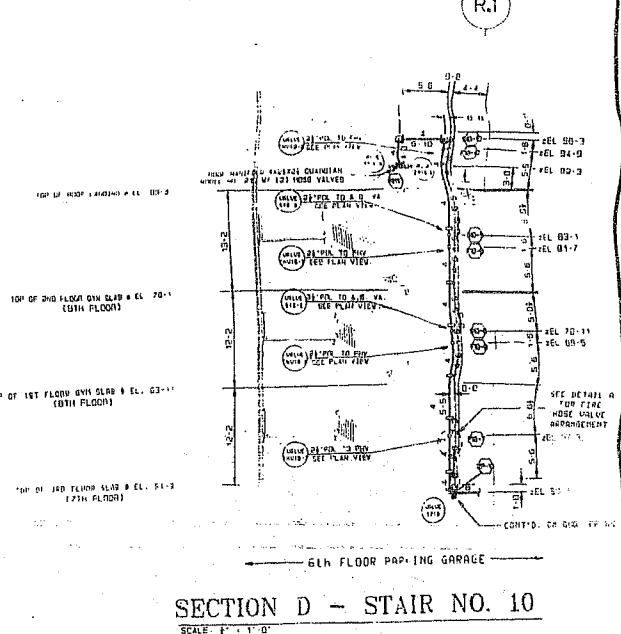
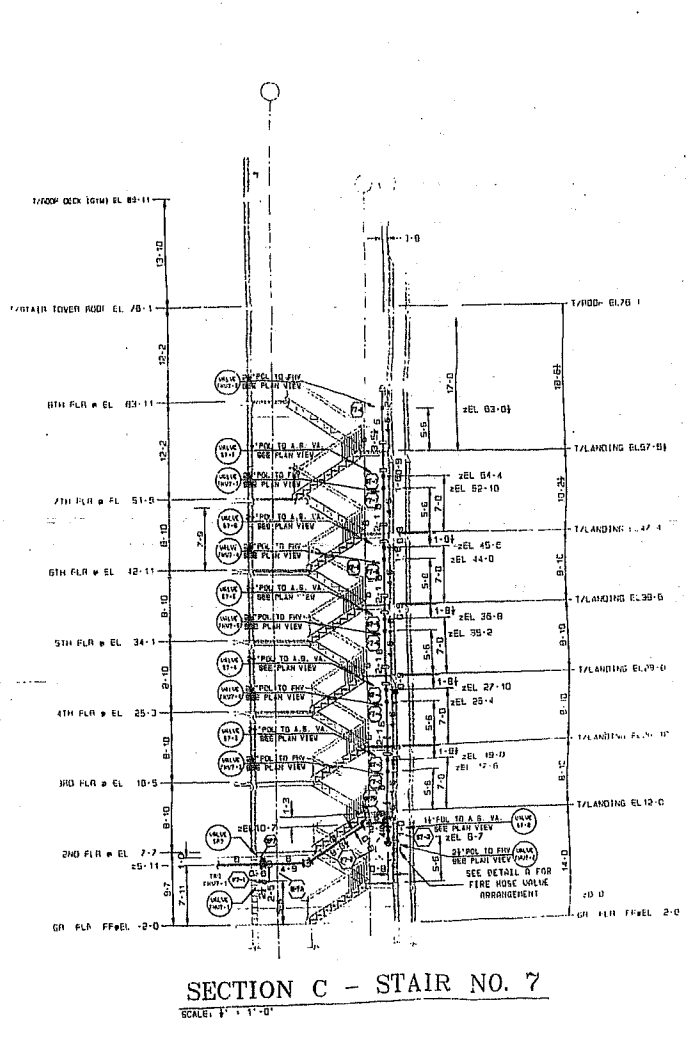
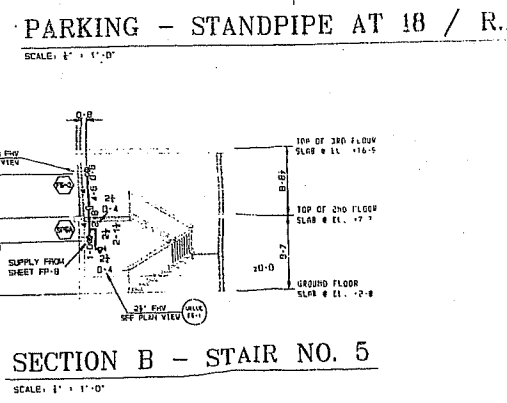
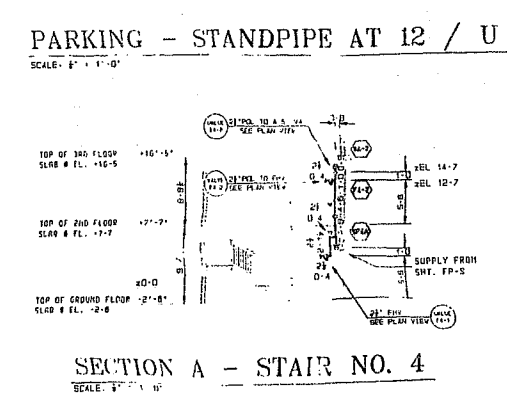
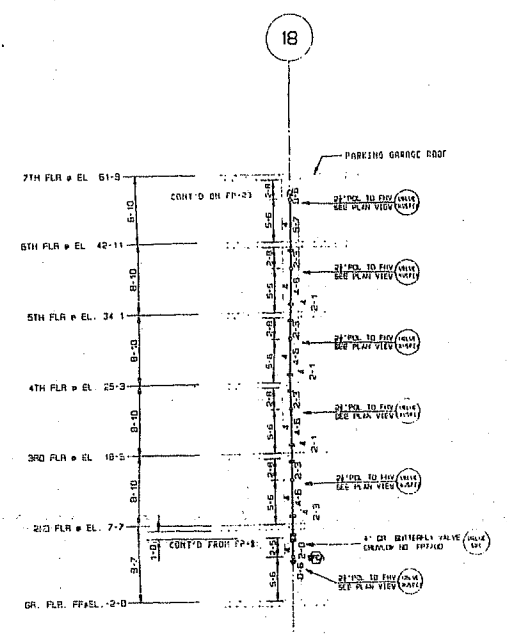
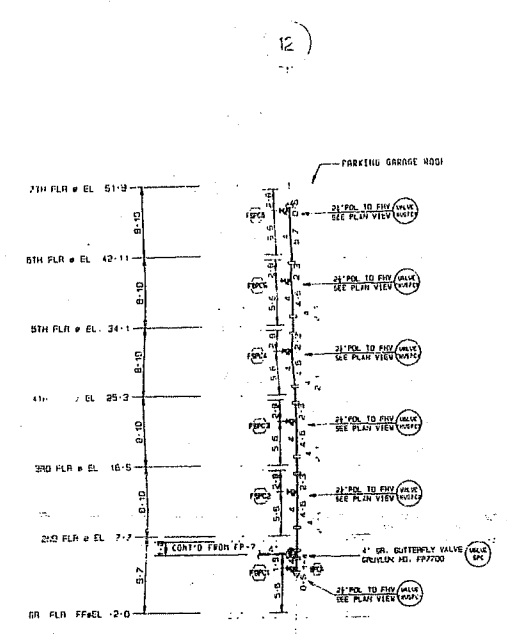
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NOTES

DRAWING NOTES

- THIS DRAWING DEPICTS THE ELEVATION VIEWS OF THE VERTICAL STANDPIPES IN 5' INCREMENTS.
- SEE DRAWING PP-1 FOR SITE PLAN, SYSTEM INDEX, NOTES AND MISCELLANEOUS DETAILS.



THIS PLAN HAS BEEN REVIEWED FOR THE APPEARANCE OF ITS HEAD LOCATIONS AND FOR CONFORMANCE OF PIPE WITH THE CEILING AS REPRESENTED. IT IS APPROVED FOR INSTALLATION AS SHOWN.

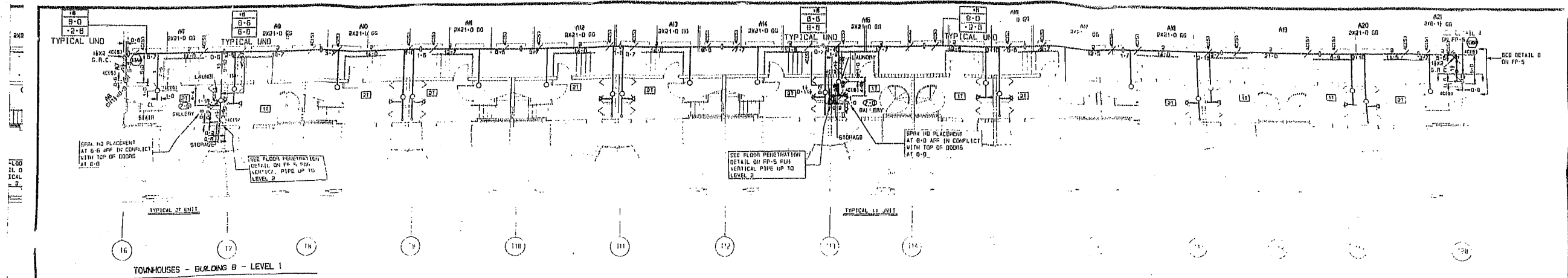
OWNER _____ DATE _____

ARCHITECT _____ DATE _____

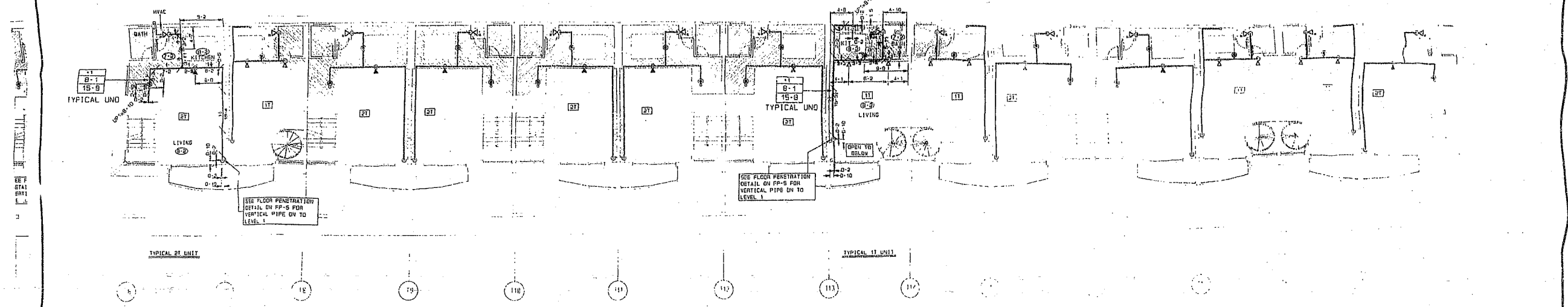
GENERAL CONTRACTOR _____ DATE _____

IMPORTANT IN ALL INSTANCES, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES.		CONTRACT RESPONSIBILITIES THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES.		SYMBOLS 1. 2 1/2" PORTLAND CEMENT MORTAR PRESSURE REDUCING VALVE NO. 10-457 ON 2 1/2" PORTLAND CEMENT MORTAR AS REQUIRED FOR FIRE HOSE VALVE 2. 2 1/2" VULCANIZED THREADED OUTLET 3. 4" OR 6" STANDPIPE 4. 2 1/2" PORTLAND CEMENT MORTAR FEMALE CAP 5. FINISHED FLOOR		SPRINKLER NOZZLES 1. 1/2" NPT 2. 1/2" NPT 3. 1/2" NPT 4. 1/2" NPT 5. 1/2" NPT		ABBREVIATIONS 1. 1/2" NPT 2. 1/2" NPT 3. 1/2" NPT 4. 1/2" NPT 5. 1/2" NPT		REVISIONS 1. 1/2" NPT 2. 1/2" NPT 3. 1/2" NPT 4. 1/2" NPT 5. 1/2" NPT		THE GRAND FLAMINGO 1000 BAY ROAD MIAMI BEACH, FLORIDA		AS NOTED SCALE: 1" = 1'-0" DATE: 6/19/2000 DRAWN BY: J. J. JENNINGS CHECKED BY: J. J. JENNINGS	
--	--	--	--	---	--	---	--	---	--	---	--	--	--	---	--

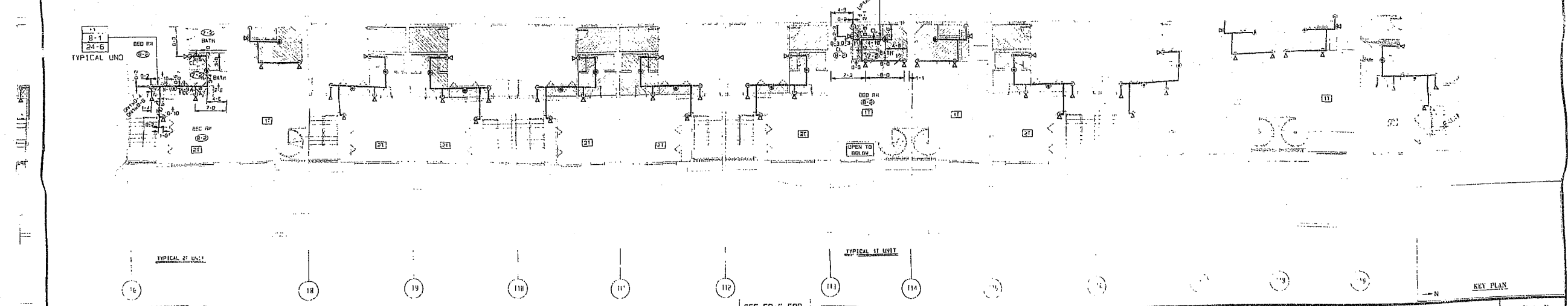
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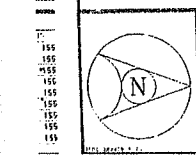
TOWNHOUSES - BUILDING B - LEVEL 1



TOWNHOUSES - BUILDING B - LEVEL 2



TOWNHOUSES - BUILDING B - LEVEL 3



CONTRACT RESPONSIBILITIES

ITEM	RESPONSIBILITY
1. DESIGN	STEVEN FELLER, P.E., INC.
2. PERMITTING	STEVEN FELLER, P.E., INC.
3. CONSTRUCTION	OWNER
4. INSPECTION	OWNER
5. MAINTENANCE	OWNER

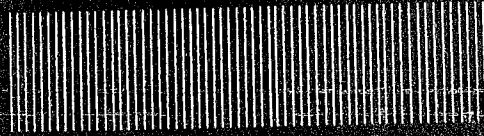
CONTRACT RESPONSIBILITIES	
ITEM	RESP.
CITY CONNECTION	
UNDERGROUND	
EXCAVATIONS	
BACKFILL	
PAINTING	

LASON SYSTEM'S INC. S.E.

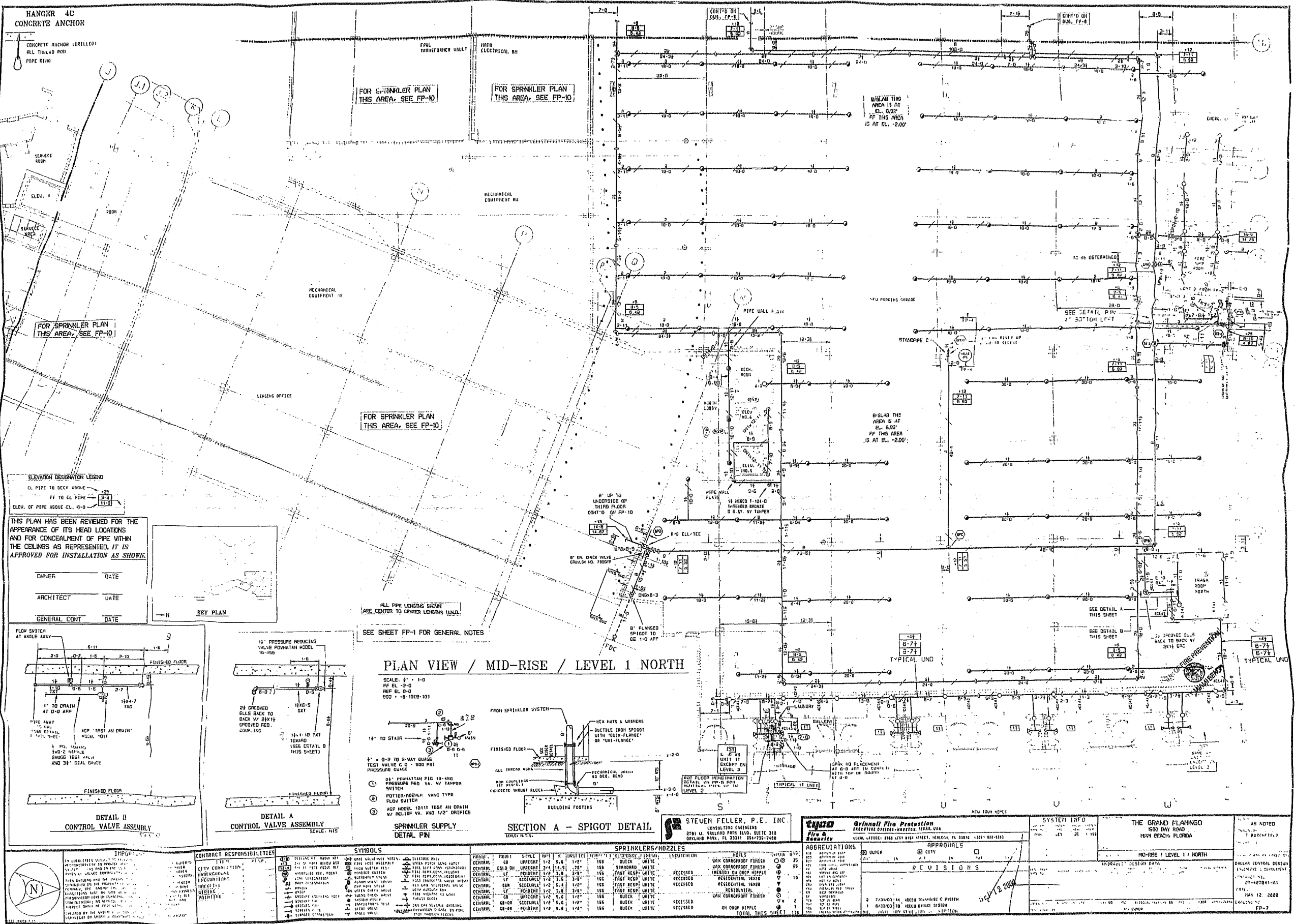
6951 N.W. 12 STREET, MIAMI, FLORIDA 33126
305-477-9149 • 800-237-4799 • FAX 305-477-7576

PREVIOUS DOCUMENT

IS
a photocopy in poor
condition



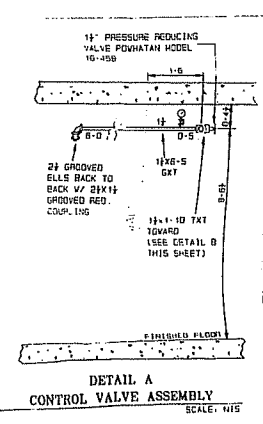
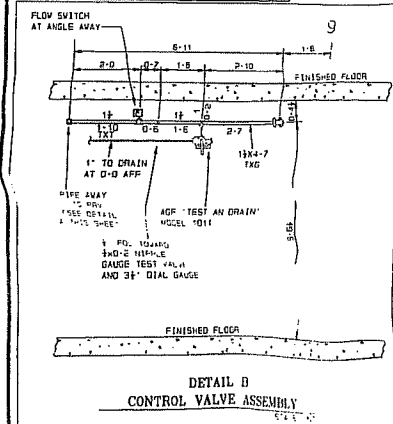
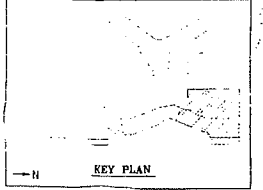
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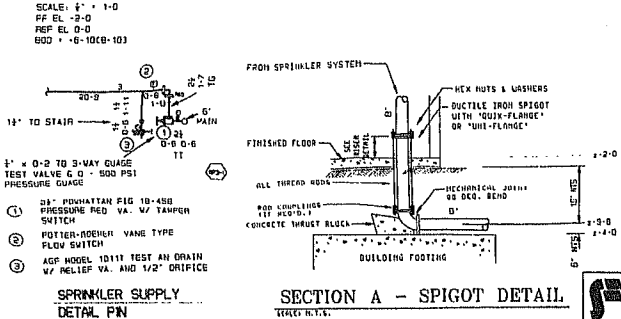
ELEVATION DESIGNATION LEGEND
CL PIPE TO DECK ABOVE
FF TO CL PIPE
ELEV. OF PIPE ABOVE CL. 6'-0"

THIS PLAN HAS BEEN REVIEWED FOR THE APPEARANCE OF ITS HEAD LOCATIONS AND FOR CONCEALMENT OF PIPE WITHIN THE CEILINGS AS REPRESENTED. IT IS APPROVED FOR INSTALLATION AS SHOWN.

OWNER _____ DATE _____
ARCHITECT _____ DATE _____
GENERAL CONT. _____ DATE _____



PLAN VIEW / MID-RISE / LEVEL 1 NORTH



NOTES:
1. IN LIEU OF THIS, SEE...
2. CITY CODE...
3. UNIFORM...
4. CITY...
5. CITY...
6. CITY...
7. CITY...
8. CITY...
9. CITY...
10. CITY...

CONTRACT RESPONSIBILITIES
1. CITY...
2. CITY...
3. CITY...
4. CITY...
5. CITY...
6. CITY...
7. CITY...
8. CITY...
9. CITY...
10. CITY...

SYMBOLS		SPRINKLERS/NOZZLES	
1/2\"/>	1/2\"/>	1/2\"/>	1/2\"/>
3/4\"/>	3/4\"/>	3/4\"/>	3/4\"/>
1\"/>	1\"/>	1\"/>	1\"/>
1 1/2\"/>	1 1/2\"/>	1 1/2\"/>	1 1/2\"/>
2\"/>	2\"/>	2\"/>	2\"/>
2 1/2\"/>	2 1/2\"/>	2 1/2\"/>	2 1/2\"/>
3\"/>	3\"/>	3\"/>	3\"/>
4\"/>	4\"/>	4\"/>	4\"/>
6\"/>	6\"/>	6\"/>	6\"/>
8\"/>	8\"/>	8\"/>	8\"/>
10\"/>	10\"/>	10\"/>	10\"/>

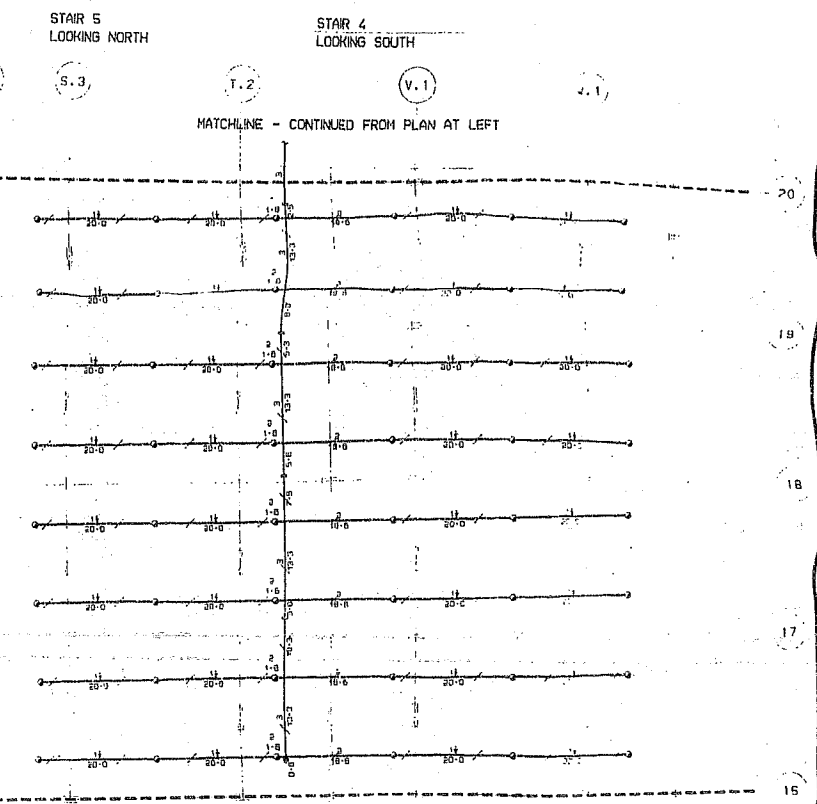
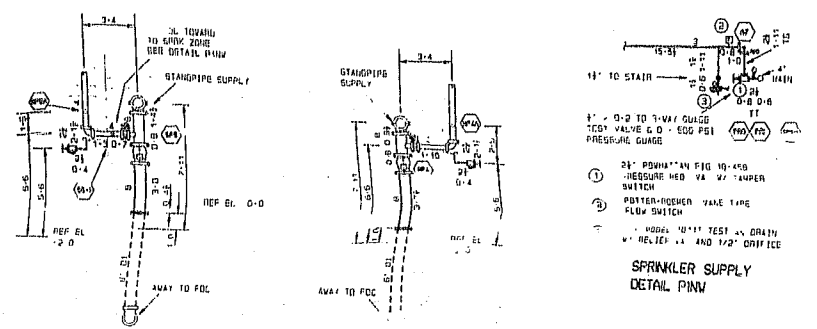
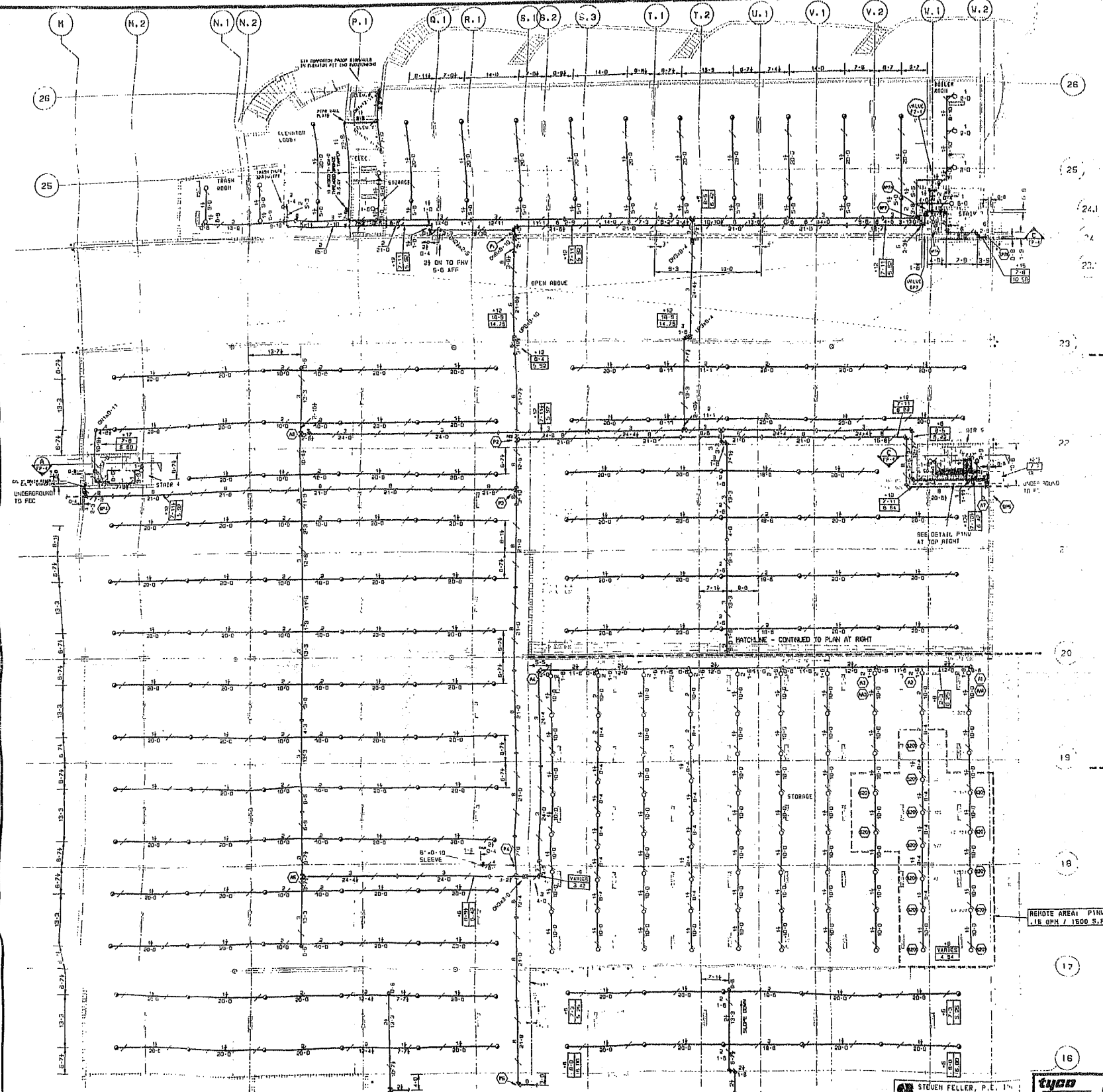
STEVEN FELLER, P.E. INC.
CONSULTING ENGINEERS
2801 W. BALLBOY PARK BLVD., SUITE 310
DALLAS, TEXAS 75243-1000

Grinnell Fire Protection
EXECUTIVE OFFICE: WILSON, TEXAS
LOCAL OFFICE: 2801 WEST BALLBOY STREET, WILSON, TEXAS 75243-1000

SYSTEM INFO
THE GRAND FLAMINGO
1500 BAY ROAD
MIAMI BEACH, FLORIDA

REVISIONS	
1	2/23/2000
2	4/23/2000
3	5/12/2000

APPROVALS
CITY
REVISIONS
DATE
BY
CHECKED
DATE
BY
DESIGNED
DATE
BY
DRAWN
DATE
BY



HANGER 4C
CONCRETE ANCHOR

REINFORCING ANCHOR (STILLED)
ONLY IN CASE OF
PIPE RING

ELEVATION ORIENTATION LEGEND
CL PIPE TO DOWN ARROW
IF TO CL PIPE
ELEV. OF PIPE HOLE 0.0 - 0.0

THIS PLAN HAS BEEN REVIEWED FOR THE
APPEARANCE OF ITS HEAD LOCATIONS
AND FOR CONCEALMENT OF PIPE WITHIN
THE CEILINGS AS REPRESENTED. IT IS
APPROVED FOR INSTALLATION AS SHOWN.

OWNER: DA
DATE: _____
ARCHITECT: _____
DATE: _____
GENERAL CONTRACTOR: _____
DATE: _____

KEY PLAN
N

ALL PIPE LENGTHS SHOWN
ARE CENTER TO CENTER LENGTHS UNLESS
NOTED OTHERWISE.
SEE SHEET FP-10 FOR GENERAL NOTES

LEVEL 1 NW
SCALE: 3/32" = 1'-0"
FP EL. = 0.0
REF EL. = 0.0
GRID = 0.0

STEVEN FELLER, P.E.
FIRE PROTECTION ENGINEER
1000 BAY ROAD, SUITE 100
DADE COUNTY, FL 33134
TEL: 305-555-1234

THE GRAND FLAMINGO
1000 BAY ROAD
MIAMI BEACH, FL 33139

SYSTEM INFO
FIRE ALARM SYSTEM
FACP: 1
FAPS: 12
FANA: 12

APPROVALS
DESIGNER: _____
CHECKER: _____
APPROVED: _____

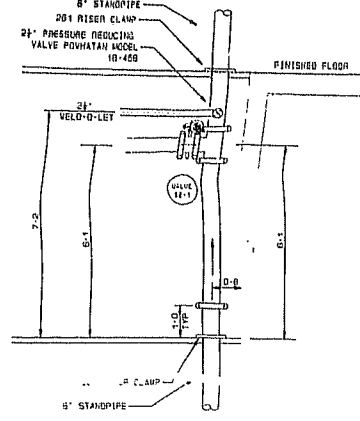
ABBREVIATIONS
FACP: FIRE ALARM CONTROL PANEL
FAPS: FIRE ALARM PULL STATION
FANA: FIRE ALARM NOTIFICATION APPLIANCE

CONTRACT RESPONSIBILITIES
DESIGNER: STEVEN FELLER, P.E.
CHECKER: _____
APPROVED: _____

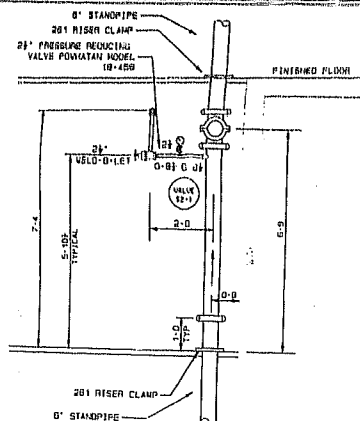
SYMBOLS
FACP: FIRE ALARM CONTROL PANEL
FAPS: FIRE ALARM PULL STATION
FANA: FIRE ALARM NOTIFICATION APPLIANCE

SPRINKLERS/NOZZLES
SPRINKLER: 1/2" K-1.2
NOZZLE: 1/2" K-1.2

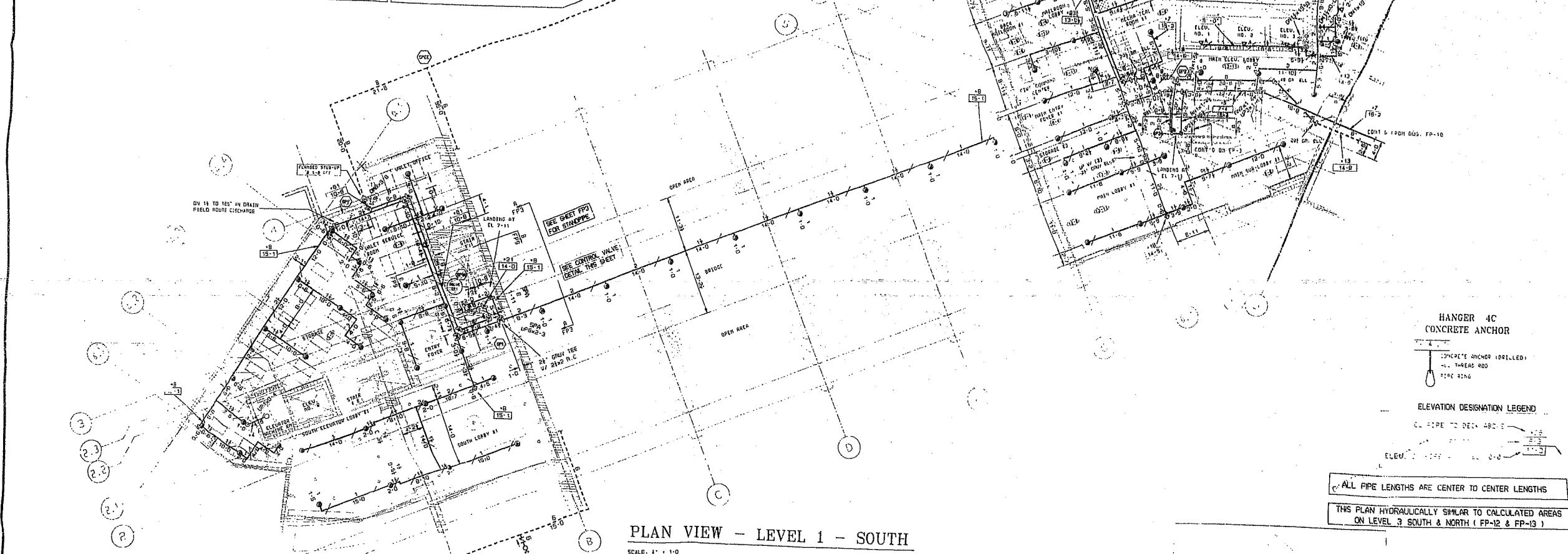
NOTES
1. ALL PIPE LENGTHS SHOWN ARE CENTER TO CENTER LENGTHS UNLESS NOTED OTHERWISE.
2. SEE SHEET FP-10 FOR GENERAL NOTES.



STAIR 1
FLOOR CONTROL VALVE ASSEMBLY
SCALE: NTS



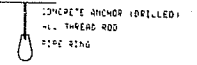
STAIR 2
FLOOR CONTROL VALVE ASSEMBLY
SCALE: NTS



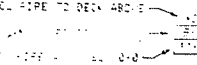
PLAN VIEW - LEVEL 1 - SOUTH

- SCALE: 1" = 1'-0"
- DRAWING NOTES
1. SEE DRAWING NO. FP-1 FOR SYSTEM SIZES AND MATERIAL NOTES.
 2. CONSTRUCTION THIS AREA FEATURES MOSTLY A FLAT CONCRETE DECK ABOVE.
 3. ALL LOW POINT DRAINS TO BE FIELD PIPED TO SAFE POINT OF DISCHARGE WHERE REQUIRED.

HANGER 4C
CONCRETE ANCHOR



ELEVATION DESIGNATION LEGEND



ALL PIPE LENGTHS ARE CENTER TO CENTER LENGTHS

THIS PLAN HYDRAULICALLY SIMILAR TO CALCULATED AREAS ON LEVEL 3 SOUTH & NORTH (FP-12 & FP-13)

THIS PLAN HAS BEEN REVIEWED FOR THE APPEARANCE OF ITS HEAD LOCATIONS AND FOR CONCEALMENT OF PIPE WITHIN THE CEILING AS REPRESENTED. IT IS APPROVED FOR INSTALLATION AS SHOWN.

OWNER _____ DATE _____

DESIGNER _____ DATE _____

REVIEWER _____ DATE _____

TOWNHOUSE BUILDING B

SEE SHEET FP-1



SYMBOLS

1. 1/2 inch pipe

2. 1/2 inch fitting

3. 1/2 inch valve

4. 1/2 inch elbow

5. 1/2 inch tee

6. 1/2 inch cross

7. 1/2 inch reducer

8. 1/2 inch union

9. 1/2 inch coupling

10. 1/2 inch nipple

11. 1/2 inch flange

12. 1/2 inch gasket

13. 1/2 inch bolt

14. 1/2 inch nut

15. 1/2 inch washer

16. 1/2 inch lock washer

17. 1/2 inch split lock washer

18. 1/2 inch split lock washer with nut

19. 1/2 inch split lock washer with nut and washer

20. 1/2 inch split lock washer with nut and washer and lock washer

CONTRACT RESPONSIBILITIES

1. DESIGN

2. CONSTRUCTION

3. MAINTENANCE

4. REPAIR

5. REPLACEMENT

6. MODIFICATION

7. ADDITION

8. DELETION

9. ALTERATION

10. RECONSTRUCTION

11. DEMOLITION

12. ERECTION

13. INSTALLATION

14. OPERATION

15. MAINTENANCE

16. REPAIR

17. REPLACEMENT

18. MODIFICATION

19. ADDITION

20. DELETION

NOTES

1. ALL PIPE SHALL BE GALVANIZED STEEL.

2. ALL FITTINGS SHALL BE GALVANIZED STEEL.

3. ALL VALVES SHALL BE GALVANIZED STEEL.

4. ALL ELBOWS SHALL BE GALVANIZED STEEL.

5. ALL TEES SHALL BE GALVANIZED STEEL.

6. ALL CROSSES SHALL BE GALVANIZED STEEL.

7. ALL REDUCERS SHALL BE GALVANIZED STEEL.

8. ALL UNIONS SHALL BE GALVANIZED STEEL.

9. ALL COUPLINGS SHALL BE GALVANIZED STEEL.

10. ALL NIPPLES SHALL BE GALVANIZED STEEL.

11. ALL FLANGES SHALL BE GALVANIZED STEEL.

12. ALL GASKETS SHALL BE GALVANIZED STEEL.

13. ALL BOLTS SHALL BE GALVANIZED STEEL.

14. ALL NUTS SHALL BE GALVANIZED STEEL.

15. ALL WASHERS SHALL BE GALVANIZED STEEL.

16. ALL LOCK WASHERS SHALL BE GALVANIZED STEEL.

17. ALL SPLIT LOCK WASHERS SHALL BE GALVANIZED STEEL.

18. ALL SPLIT LOCK WASHERS WITH NUTS SHALL BE GALVANIZED STEEL.

19. ALL SPLIT LOCK WASHERS WITH NUTS AND WASHERS SHALL BE GALVANIZED STEEL.

20. ALL SPLIT LOCK WASHERS WITH NUTS AND WASHERS AND LOCK WASHERS SHALL BE GALVANIZED STEEL.

SPRINKLERS/NOZZLES

1. 1/2 inch pipe

2. 1/2 inch fitting

3. 1/2 inch valve

4. 1/2 inch elbow

5. 1/2 inch tee

6. 1/2 inch cross

7. 1/2 inch reducer

8. 1/2 inch union

9. 1/2 inch coupling

10. 1/2 inch nipple

11. 1/2 inch flange

12. 1/2 inch gasket

13. 1/2 inch bolt

14. 1/2 inch nut

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16. 1/2 inch lock washer

17. 1/2 inch split lock washer

18. 1/2 inch split lock washer with nut

19. 1/2 inch split lock washer with nut and washer

20. 1/2 inch split lock washer with nut and washer and lock washer

ABBREVIATIONS

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5. ALL TEES SHALL BE GALVANIZED STEEL.

6. ALL CROSSES SHALL BE GALVANIZED STEEL.

7. ALL REDUCERS SHALL BE GALVANIZED STEEL.

8. ALL UNIONS SHALL BE GALVANIZED STEEL.

9. ALL COUPLINGS SHALL BE GALVANIZED STEEL.

10. ALL NIPPLES SHALL BE GALVANIZED STEEL.

11. ALL FLANGES SHALL BE GALVANIZED STEEL.

12. ALL GASKETS SHALL BE GALVANIZED STEEL.

13. ALL BOLTS SHALL BE GALVANIZED STEEL.

14. ALL NUTS SHALL BE GALVANIZED STEEL.

15. ALL WASHERS SHALL BE GALVANIZED STEEL.

16. ALL LOCK WASHERS SHALL BE GALVANIZED STEEL.

17. ALL SPLIT LOCK WASHERS SHALL BE GALVANIZED STEEL.

18. ALL SPLIT LOCK WASHERS WITH NUTS SHALL BE GALVANIZED STEEL.

19. ALL SPLIT LOCK WASHERS WITH NUTS AND WASHERS SHALL BE GALVANIZED STEEL.

20. ALL SPLIT LOCK WASHERS WITH NUTS AND WASHERS AND LOCK WASHERS SHALL BE GALVANIZED STEEL.

APPROVALS

1. DESIGNER

2. REVIEWER

3. OWNER

4. CONTRACTOR

5. INSPECTOR

6. PERMITTING

7. FIRE DEPARTMENT

8. FIRE INSURANCE

9. FIRE PROTECTION

10. FIRE SAFETY

11. FIRE PREVENTION

12. FIRE EXTINGUISHING

13. FIRE ALARM

14. FIRE DETECTION

15. FIRE MONITORING

16. FIRE RECORDING

17. FIRE ANALYSIS

18. FIRE REPORTING

19. FIRE INVESTIGATION

20. FIRE PREVENTION

REVISIONS

1. 1/2 inch pipe

2. 1/2 inch fitting

3. 1/2 inch valve

4. 1/2 inch elbow

5. 1/2 inch tee

6. 1/2 inch cross

7. 1/2 inch reducer

8. 1/2 inch union

9. 1/2 inch coupling

10. 1/2 inch nipple

11. 1/2 inch flange

12. 1/2 inch gasket

13. 1/2 inch bolt

14. 1/2 inch nut

15. 1/2 inch washer

16. 1/2 inch lock washer

17. 1/2 inch split lock washer

18. 1/2 inch split lock washer with nut

19. 1/2 inch split lock washer with nut and washer

20. 1/2 inch split lock washer with nut and washer and lock washer

SYSTEM INFO

1. 1/2 inch pipe

2. 1/2 inch fitting

3. 1/2 inch valve

4. 1/2 inch elbow

5. 1/2 inch tee

6. 1/2 inch cross

7. 1/2 inch reducer

8. 1/2 inch union

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12. 1/2 inch gasket

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16. 1/2 inch lock washer

17. 1/2 inch split lock washer

18. 1/2 inch split lock washer with nut

19. 1/2 inch split lock washer with nut and washer

20. 1/2 inch split lock washer with nut and washer and lock washer

THE GRAND FLAMINGO

1500 BAY ROAD

MIAMI BEACH, FL 33139

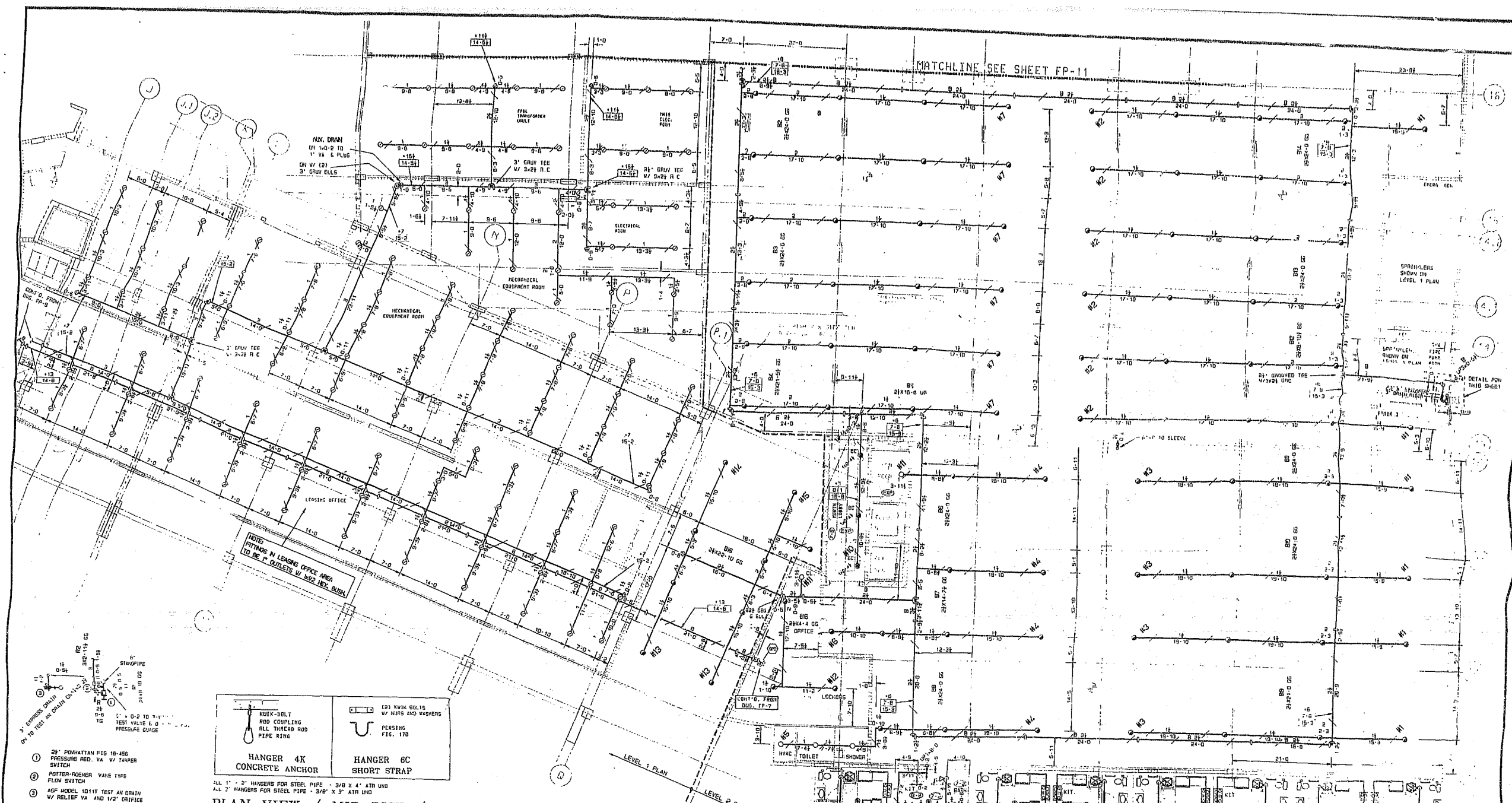
DATE: 10/1/2000

BY: [Signature]

45 NOTED

10/1/2000

FP-9



**PLAN VIEW / MID-RISE / LEVEL 1 NORTH
PARKING LEVEL 2 NORTH**

SCALE: 1" = 1'-0"
FP EL. 12'-0"
RIP EL. 11'-0"
RIP EL. 10'-0"

THIS PLAN HAS BEEN REVIEWED FOR THE APPEARANCE OF ITS HEAD LOCATIONS AND FOR CONCEALMENT OF PIPE WITHIN THE CEILING AS REPRESENTED, IT IS APPROVED FOR INSTALLATION AS SHOWN.

OWNER: _____ DATE: _____
ARCHITECT: _____ DATE: _____
GENERAL CONT: _____ DATE: _____

KEY PLAN

NOTES:

- 1. ALL EXPOSED PIPE TO BE 3/4" ON 1" IN 1" IN AND 3/4" ON 1" IN 1" IN AND 3/4" ON 1" IN 1" IN.
- 2. ALL EXPOSED PIPE TO USE AN HANGER AND 3/4" ON 1" IN 1" IN AND 3/4" ON 1" IN 1" IN.
- 3. INSTALL WALL PLATES AT ALL WALL PENETRATIONS OF EXPOSED PIPING.

GENERAL NOTES:

- 1. ALL PIPING SOUTH OF COLUMN LINE C - INCLUDING 8" MAIN - NOT INCLUDED IN REVISION 3 CONSTRUCTION RELEASE.
- 2. THE LEVEL 1 MID-RISE PLAN IS HYDRAULICALLY SIMILAR TO CALCULATED AREAS ON LEVEL 3 SOUTH & NORTH (FP-12 & FP-13).

SYMBOLS:

- 1. SPRINKLER HEAD
- 2. VALVE
- 3. PIPE
- 4. HANGER
- 5. ANCHOR
- 6. STRAP
- 7. LOCKER
- 8. TOILET
- 9. SHOWER
- 10. TYPICAL UNIT

SPRINKLER/NOZZLES

NO.	TYPE	SIZE	ORIF.	SPR.	NO.	TYPE	SIZE	ORIF.	SPR.
1	STANDARD	1/2"	5.7	155	156	STANDARD	1/2"	5.7	155
2	STANDARD	1/2"	5.7	155	157	STANDARD	1/2"	5.7	155
3	STANDARD	1/2"	5.7	155	158	STANDARD	1/2"	5.7	155
4	STANDARD	1/2"	5.7	155	159	STANDARD	1/2"	5.7	155
5	STANDARD	1/2"	5.7	155	160	STANDARD	1/2"	5.7	155
6	STANDARD	1/2"	5.7	155	161	STANDARD	1/2"	5.7	155
7	STANDARD	1/2"	5.7	155	162	STANDARD	1/2"	5.7	155
8	STANDARD	1/2"	5.7	155	163	STANDARD	1/2"	5.7	155
9	STANDARD	1/2"	5.7	155	164	STANDARD	1/2"	5.7	155
10	STANDARD	1/2"	5.7	155	165	STANDARD	1/2"	5.7	155

ABBREVIATIONS:

- 1. SPRINKLER HEAD
- 2. VALVE
- 3. PIPE
- 4. HANGER
- 5. ANCHOR
- 6. STRAP
- 7. LOCKER
- 8. TOILET
- 9. SHOWER
- 10. TYPICAL UNIT

APPROVALS:

DESIGNED BY: _____
CHECKED BY: _____
APPROVED BY: _____

REVISIONS:

NO.	DESCRIPTION	DATE
1	ORIGINAL	06/14/00
2	REVISION	06/14/00
3	REVISION	06/14/00

STEVEN FELLER, P.E., INC.
2701 N. GULF BLVD., SUITE 310
ORLANDO, FL 32811 407-933-1100

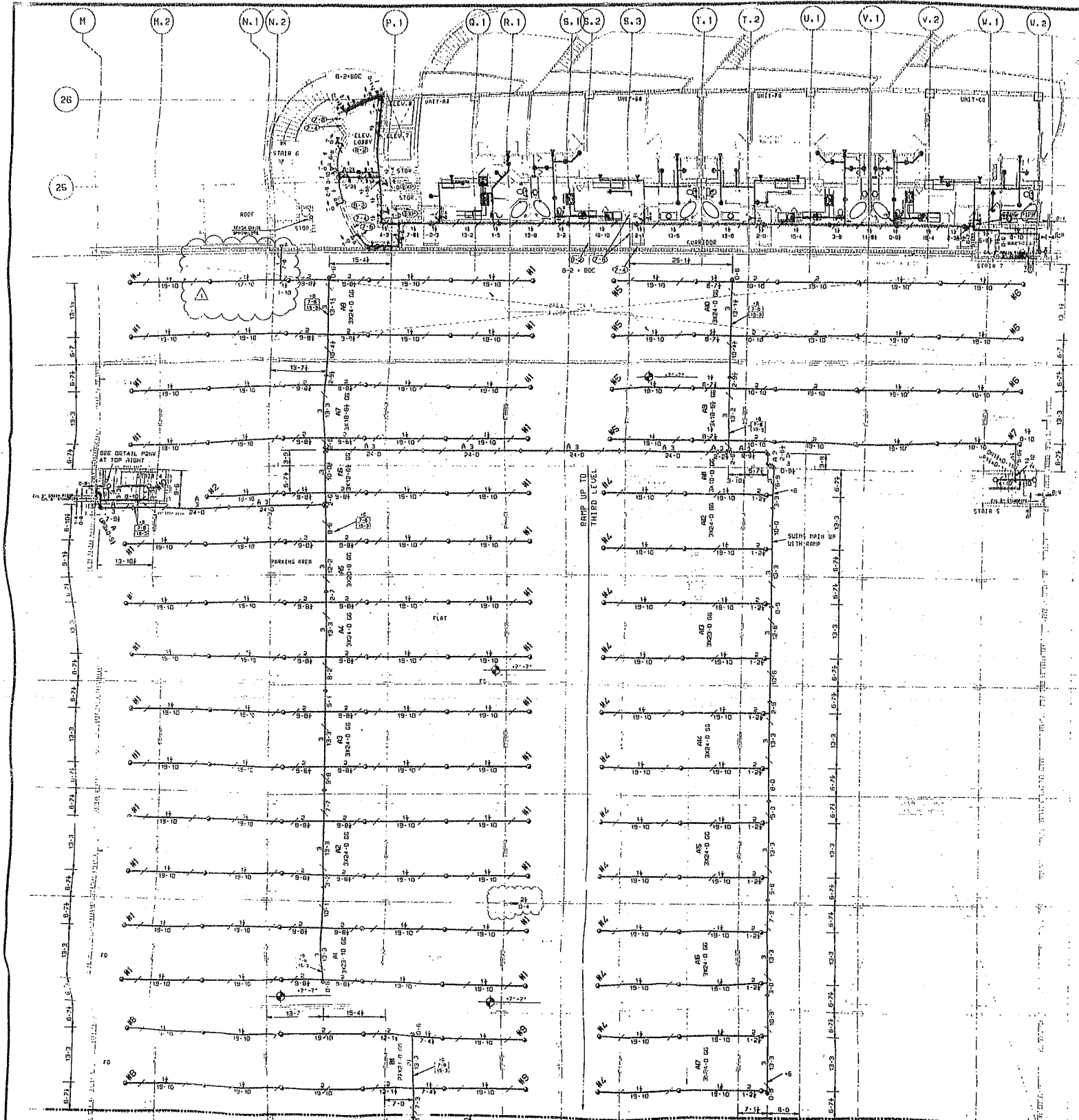
Grinnell Fire Protection
1500 BAY ROAD
MIAMI BEACH, FLORIDA 33139
407-531-1100

THE GRAND FLAMINGO
1500 BAY ROAD
MIAMI BEACH, FLORIDA 33139
407-531-1100

AS NOTED

DATE: JUN 30, 2000

PP-10

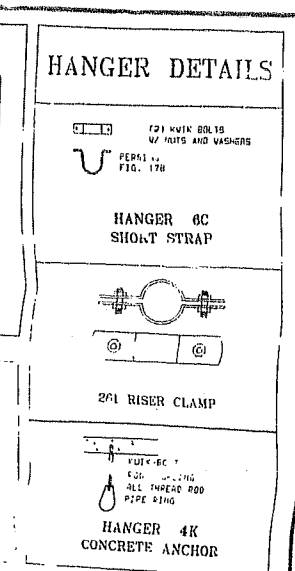
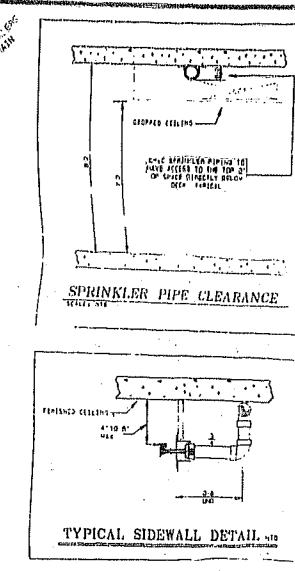
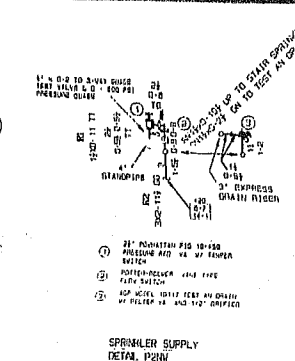


PLAN VIEW / MID-RISE / LEVEL 2 NW

SCALE: 3/32" = 1'-0"
SHEET NO. 17
REF. EL. 0'-0"
SHEET NO. 17

SEE SHEET FP-1 FOR GENERAL NOTES

NOTE: THE PARKING GARAGE SYSTEMS ARE HYDRAULICALLY SIMILAR TO LEVEL 6



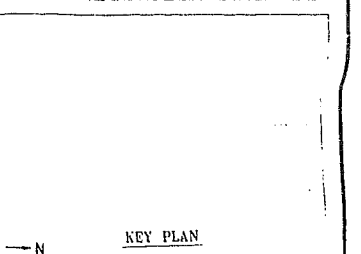
THIS PLAN HAS BEEN REVIEWED FOR THE APPROPRIATE OF ITS HEAD LOCATIONS AND FOR CONFORMANCE WITH THE CITY OF LOS ANGELES FIRE DEPARTMENT APPROVED FOR INSTALLATION AS SHOWN.

OWNER	DATE
PROJECT	DATE
DESIGNED BY	DATE

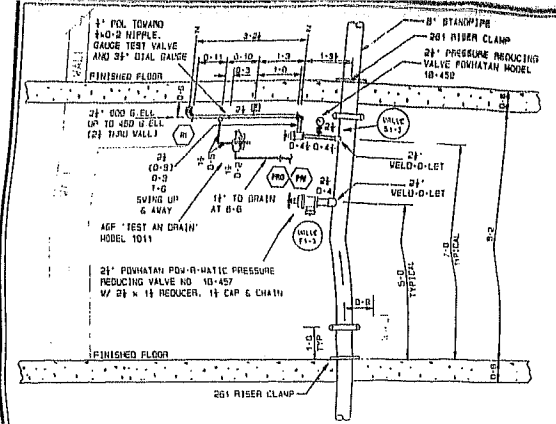
SPACING	
PIPE SIZE	MAXIMUM SPACING
1/2"	5'-0"
3/4"	6'-0"
1"	7'-0"
1 1/2"	8'-0"

- GENERAL NOTES
1. ALL CONCEALED PIPES TO BE 2" MIN. BLACKWATER AND 1/2" MIN. BLACKWATER.
 2. ALL CONCEALED PIPES TO BE 2" MIN. BLACKWATER AND 1/2" MIN. BLACKWATER.
 3. ALL PIPES TO BE 2" MIN. BLACKWATER AND 1/2" MIN. BLACKWATER.
 4. ALL PIPES TO BE 2" MIN. BLACKWATER AND 1/2" MIN. BLACKWATER.
 5. ALL PIPES TO BE 2" MIN. BLACKWATER AND 1/2" MIN. BLACKWATER.
 6. ALL PIPES TO BE 2" MIN. BLACKWATER AND 1/2" MIN. BLACKWATER.
 7. ALL PIPES TO BE 2" MIN. BLACKWATER AND 1/2" MIN. BLACKWATER.
 8. ALL PIPES TO BE 2" MIN. BLACKWATER AND 1/2" MIN. BLACKWATER.
 9. ALL PIPES TO BE 2" MIN. BLACKWATER AND 1/2" MIN. BLACKWATER.
 10. ALL PIPES TO BE 2" MIN. BLACKWATER AND 1/2" MIN. BLACKWATER.

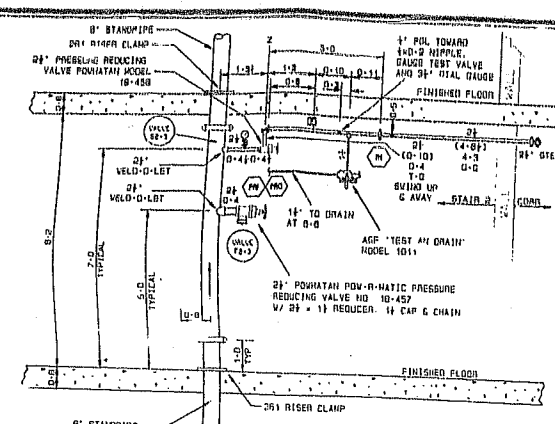
ELEVATION DESIGNATION LEGEND
ALL STEEL PIPE LENGTHS SHOWN CUT
ALL CPVC PIPE LENGTHS ARE CENTER TO CENTER



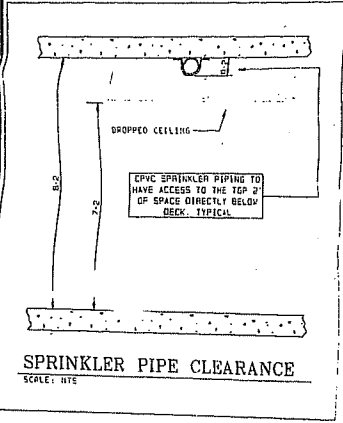
IMPORTANT THIS PLAN IS SUBJECT TO THE FOLLOWING CONDITIONS: 1. THE CITY OF LOS ANGELES FIRE DEPARTMENT HAS REVIEWED THIS PLAN FOR CONFORMANCE WITH THE CITY OF LOS ANGELES FIRE DEPARTMENT APPROVED FOR INSTALLATION AS SHOWN. 2. THE CITY OF LOS ANGELES FIRE DEPARTMENT HAS REVIEWED THIS PLAN FOR CONFORMANCE WITH THE CITY OF LOS ANGELES FIRE DEPARTMENT APPROVED FOR INSTALLATION AS SHOWN. 3. THE CITY OF LOS ANGELES FIRE DEPARTMENT HAS REVIEWED THIS PLAN FOR CONFORMANCE WITH THE CITY OF LOS ANGELES FIRE DEPARTMENT APPROVED FOR INSTALLATION AS SHOWN. 4. THE CITY OF LOS ANGELES FIRE DEPARTMENT HAS REVIEWED THIS PLAN FOR CONFORMANCE WITH THE CITY OF LOS ANGELES FIRE DEPARTMENT APPROVED FOR INSTALLATION AS SHOWN. 5. THE CITY OF LOS ANGELES FIRE DEPARTMENT HAS REVIEWED THIS PLAN FOR CONFORMANCE WITH THE CITY OF LOS ANGELES FIRE DEPARTMENT APPROVED FOR INSTALLATION AS SHOWN. 6. THE CITY OF LOS ANGELES FIRE DEPARTMENT HAS REVIEWED THIS PLAN FOR CONFORMANCE WITH THE CITY OF LOS ANGELES FIRE DEPARTMENT APPROVED FOR INSTALLATION AS SHOWN. 7. THE CITY OF LOS ANGELES FIRE DEPARTMENT HAS REVIEWED THIS PLAN FOR CONFORMANCE WITH THE CITY OF LOS ANGELES FIRE DEPARTMENT APPROVED FOR INSTALLATION AS SHOWN. 8. THE CITY OF LOS ANGELES FIRE DEPARTMENT HAS REVIEWED THIS PLAN FOR CONFORMANCE WITH THE CITY OF LOS ANGELES FIRE DEPARTMENT APPROVED FOR INSTALLATION AS SHOWN. 9. THE CITY OF LOS ANGELES FIRE DEPARTMENT HAS REVIEWED THIS PLAN FOR CONFORMANCE WITH THE CITY OF LOS ANGELES FIRE DEPARTMENT APPROVED FOR INSTALLATION AS SHOWN. 10. THE CITY OF LOS ANGELES FIRE DEPARTMENT HAS REVIEWED THIS PLAN FOR CONFORMANCE WITH THE CITY OF LOS ANGELES FIRE DEPARTMENT APPROVED FOR INSTALLATION AS SHOWN.		CONTRACT RESPONSIBILITIES OWNER: THE GRAND FLAMINGO DESIGNER: STEVEN FELLER P.E. INC. INSTALLER: [REDACTED] DATE: 10/1/2000		SYMBOLS [REDACTED]		SPRINKLERS/NOZZLES [REDACTED]		ABBREVIATIONS [REDACTED]		APPROVALS [REDACTED]		SYSTEM INFO [REDACTED]		THE GRAND FLAMINGO 1500 BAY BLVD LOS ANGELES, CA 90012		AS NOTED [REDACTED]	
--	--	--	--	------------------------------	--	---	--	------------------------------------	--	--------------------------------	--	----------------------------------	--	---	--	-------------------------------	--



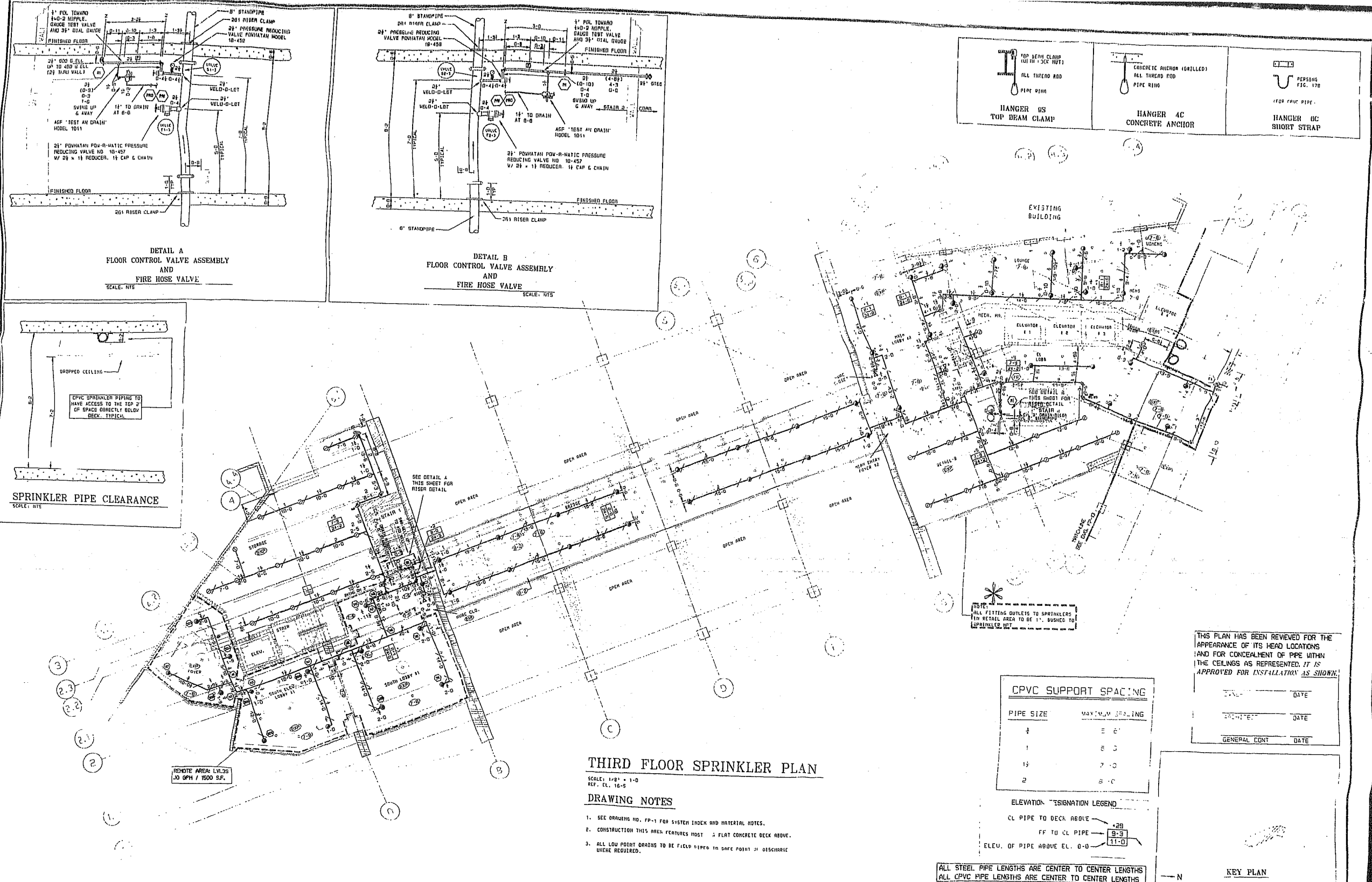
DETAIL A
FLOOR CONTROL VALVE ASSEMBLY
AND
FIRE HOSE VALVE
SCALE: NTS



DETAIL B
FLOOR CONTROL VALVE ASSEMBLY
AND
FIRE HOSE VALVE
SCALE: NTS



SPRINKLER PIPE CLEARANCE
SCALE: NTS



THIRD FLOOR SPRINKLER PLAN

SCALE: 1/8" = 1'-0"
REF. EL. 16'-5"

DRAWING NOTES

- SEE DRAWING NO. PP-1 FOR SYSTEM INDEX AND MATERIAL NOTES.
- CONSTRUCTION THIS AREA FEATURES HOIST A FLAT CONCRETE DECK ABOVE.
- ALL LOW POINT DRAINS TO BE FIELD PIPED TO SAFE POINT OF DISCHARGE WHERE REQUIRED.

CPVC SUPPORT SPACING	
PIPE SIZE	MAXIMUM SPACING
1/2	6'
1	8'
1 1/2	10'
2	12'

ELEVATION DESIGNATION LEGEND	
CL PIPE TO DECK ABOVE	+29
FF TO CL PIPE	+9-3
ELEV. OF PIPE ABOVE EL. 0-0	+11-0

ALL STEEL PIPE LENGTHS ARE CENTER TO CENTER LENGTHS
ALL CPVC PIPE LENGTHS ARE CENTER TO CENTER LENGTHS

THIS PLAN HAS BEEN REVIEWED FOR THE
APPEARANCE OF ITS HEAD LOCATIONS
AND FOR CONCEALMENT OF PIPE WITHIN
THE CEILINGS AS REPRESENTED. IT IS
APPROVED FOR INSTALLATION AS SHOWN.

DATE	DATE
ARCHITECT	DATE
GENERAL CONT	DATE

KEY PLAN

IMPORTANT

IN ALL INSTALLATIONS, THE FOLLOWING CONDITIONS MUST BE OBSERVED: 1. THE BUILDING OWNER MUST PROVIDE ACCESS TO THE SPRINKLER SYSTEM AND THE INSTALLATION OF THE SPRINKLER SYSTEM MUST BE COMPLETED WITHIN THE SPECIFIED TIME FRAME. 2. THE BUILDING OWNER MUST PROVIDE ACCESS TO THE SPRINKLER SYSTEM AND THE INSTALLATION OF THE SPRINKLER SYSTEM MUST BE COMPLETED WITHIN THE SPECIFIED TIME FRAME.

CONTRACT RESPONSIBILITIES

ITEM CITY CONNECTION

ITEM CITY CONNECTION

SYMBOLS

PIPE SIZE

PIPE SIZE

SPRINKLER/NOZZLES

SPRINKLER/NOZZLES

ABBREVIATIONS

ABBREVIATIONS

APPROVALS

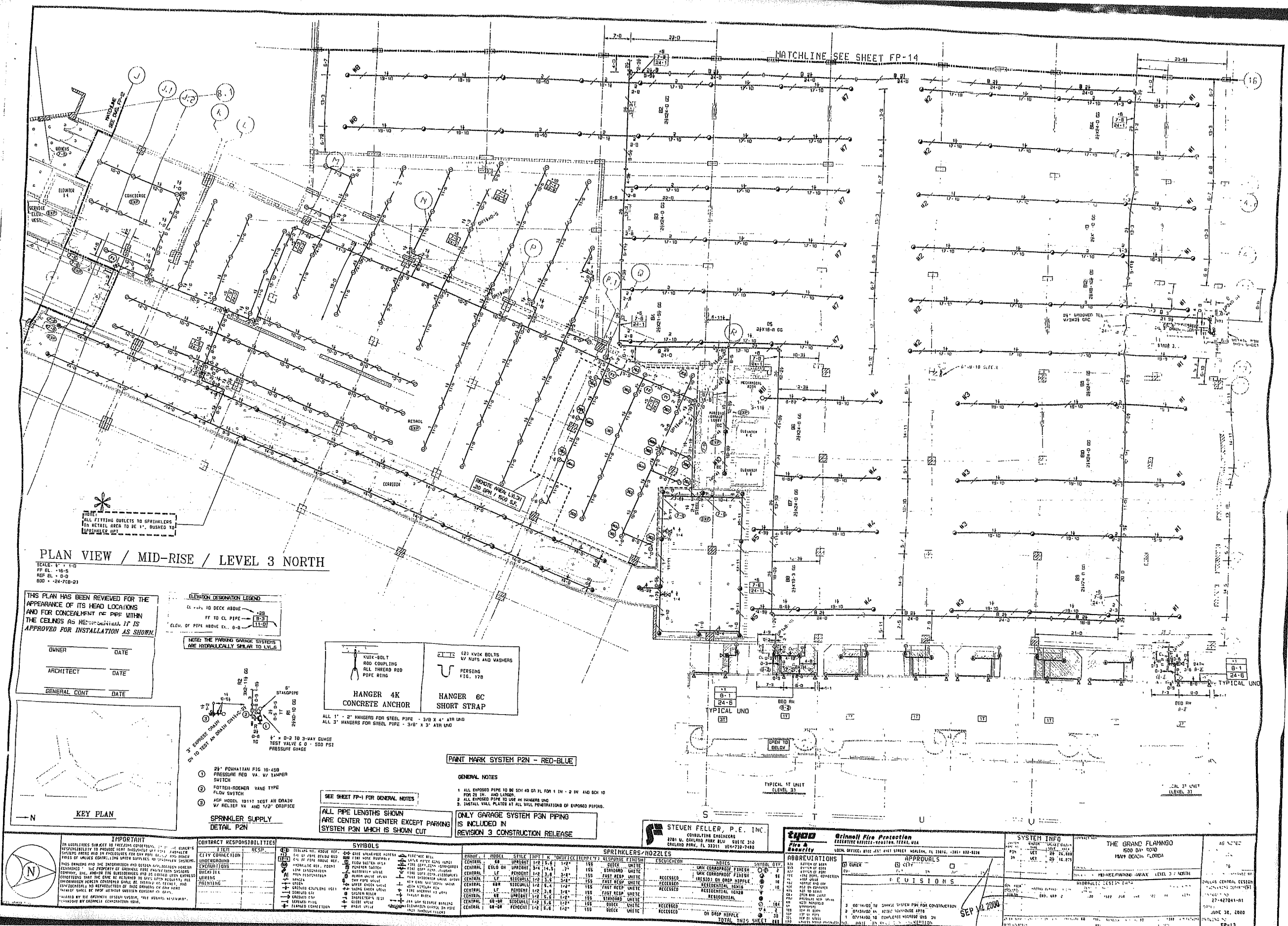
APPROVALS

SYSTEM INFO

SYSTEM INFO

THE GRAND FLAMINGO

THE GRAND FLAMINGO



EP-1

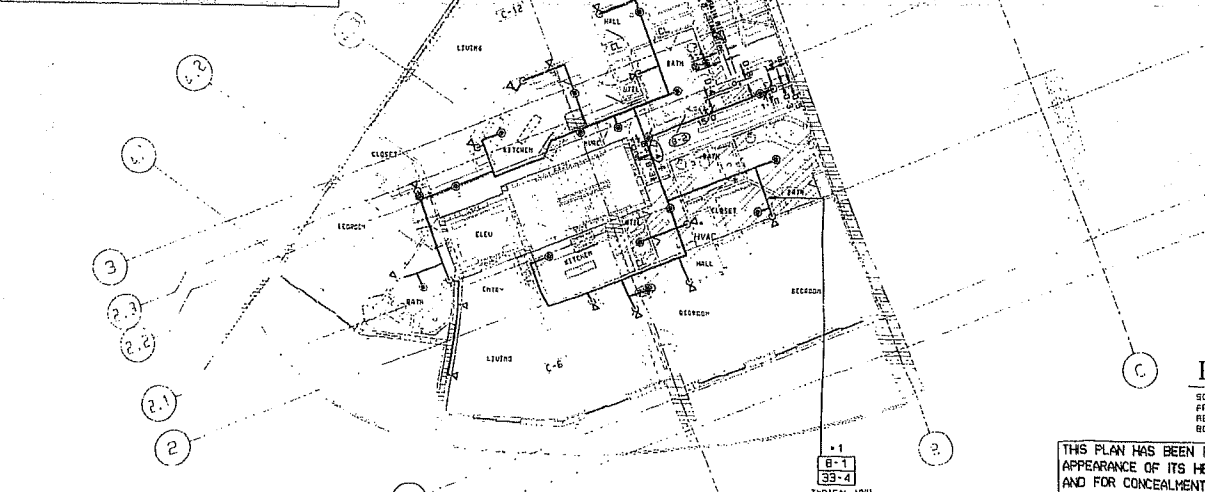
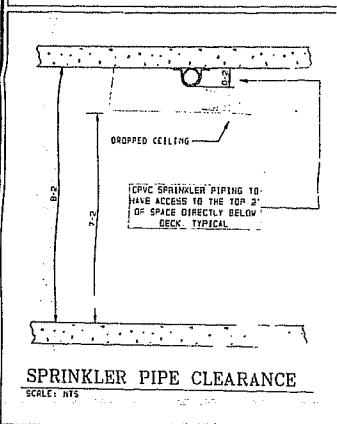
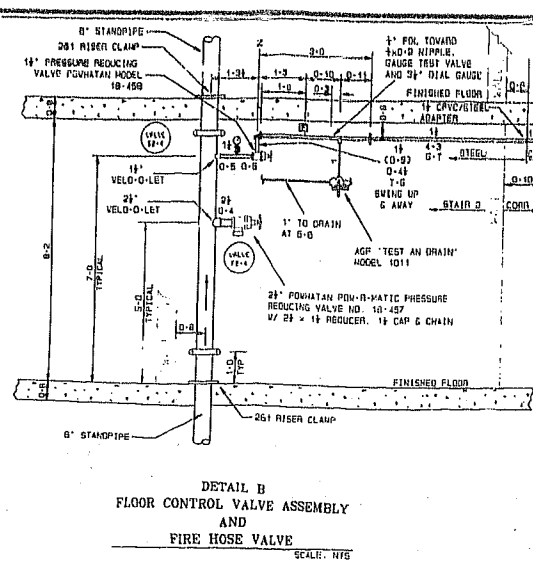
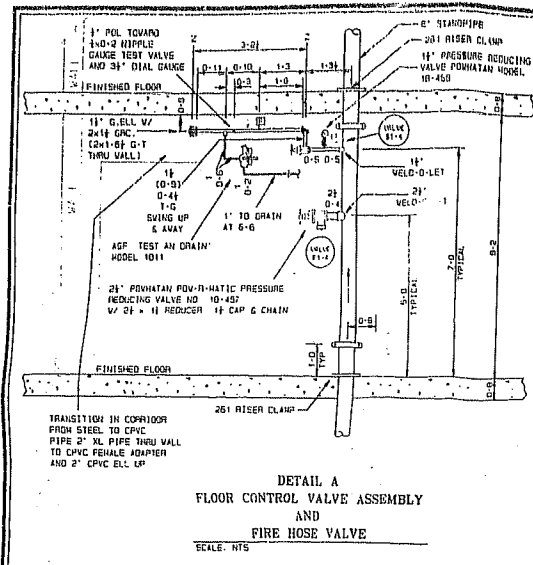
LASON SYSTEM'S INC. S.E.
6554 N.W. 12 STREET, MIAMI, FLORIDA 33126
305-477-9149 • 800-557-4799 • FAX 305-477-5326

PREVIOUS DOCUMENT

IS
a photocopy in poor
condition



FC 017



GENERAL NOTES

1. ALL CONCEALED PIPE TO BE CPVC BLAZEMASTER UNID.
2. ALL EXPOSED PIPE TO BE SCH 40 OR XL FOR 1/2 IN. & SCH 10 FOR 3/4 IN. AND LARGER.
3. ALL PIPE TO BE STRAPPED TO CONCRETE CEILING (1/2\"/>

PLAN VIEW / MID-RISE / LEVEL 4 SOUTH

SCALE: 1/4\"/>

THIS PLAN HAS BEEN REVIEWED FOR THE APPEARANCE OF ITS HEAD LOCATIONS AND FOR CONCEALMENT OF PIPE WITHIN THE CEILINGS AS REPRESENTED. IT IS APPROVED FOR INSTALLATION AS SHOWN.

OWNER _____ DATE _____

ARCHITECT _____ DATE _____

GENERAL CONT _____ DATE _____

ELEVATION DESIGNATION LEGEND

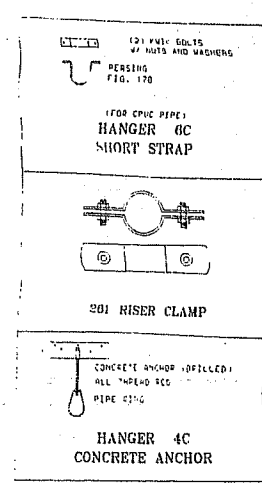
CL PIPE TO DECK ABOVE → 2B

FF TO CL PIPE → 3-3

ELEV. OF PIPE ABOVE EL. 0-0 → 11-0

~ALL STEEL PIPE LENGTHS ARE CUT LENGTHS
~ALL CPVC PIPE LENGTHS ARE CENTER TO CENTER LENGTHS

HANGER DETAILS

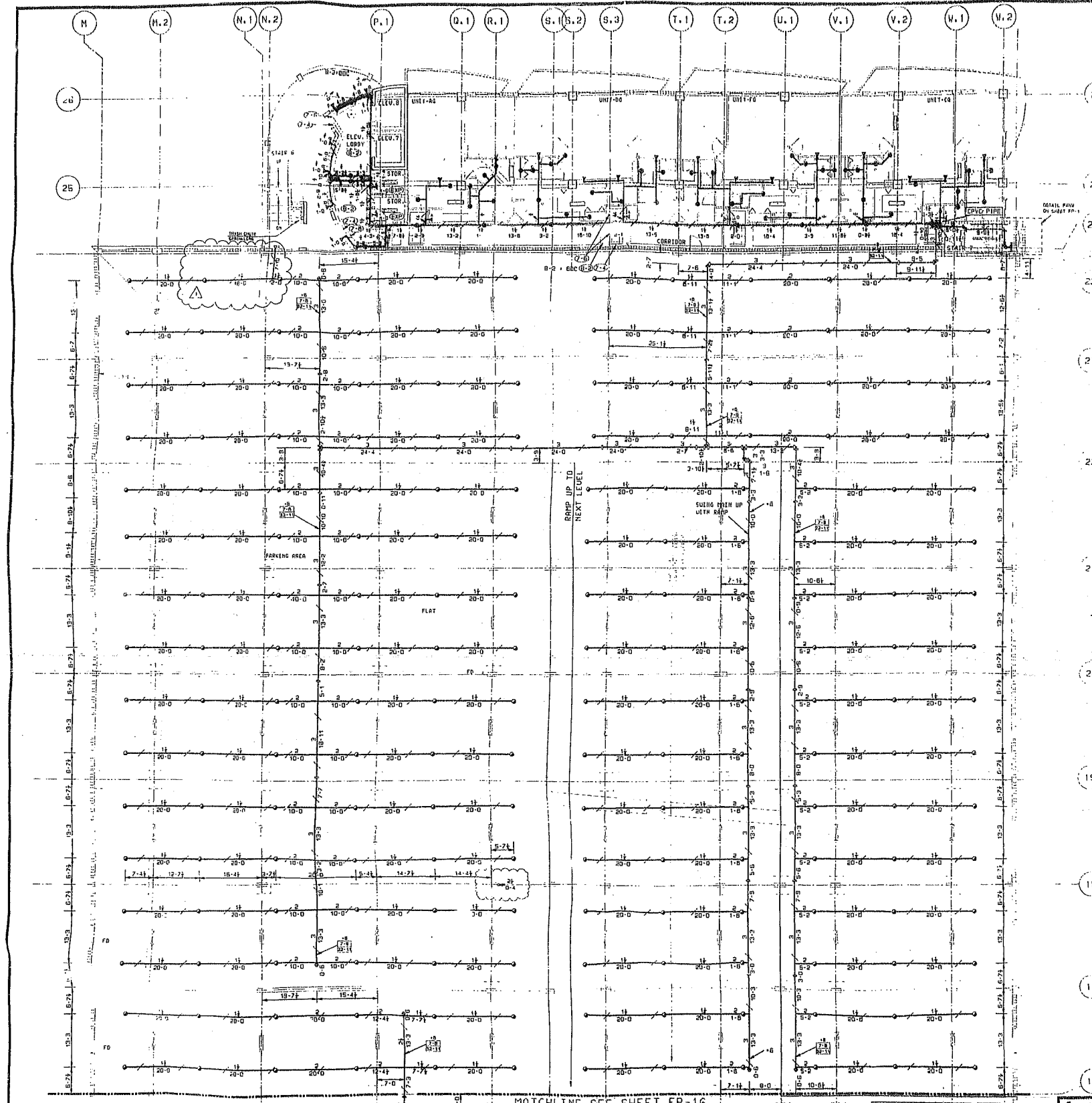


CPVC SUPPORT SPACING

PIPE SIZE	MAX. V. V. SPACING
1/2	5'-6"
3/4	6'-0"
1	7'-0"
2	8'-0"

KEY PLAN

IMPORTANT IN LOCATIONS SUBJECT TO FLOODING, THE OWNER'S RESPONSIBILITY TO PROTECT THE PROPERTY FROM FLOODING SHALL BE THE RESPONSIBILITY OF THE OWNER. THE OWNER SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE PROPERTY FROM FLOODING. THE OWNER SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE PROPERTY FROM FLOODING.	CONTRACT RESPONSIBILITIES OWNER: TO PROVIDE ALL NECESSARY INFORMATION AND APPROVALS. TO PAY FOR ALL WORK AND MATERIALS. TO MAINTAIN ACCESS TO ALL UTILITIES AND ADJACENT PROPERTIES. DESIGNER: TO DESIGN AND DETAIL THE WORK. TO PROVIDE ALL NECESSARY INFORMATION AND APPROVALS. TO MAINTAIN ACCESS TO ALL UTILITIES AND ADJACENT PROPERTIES. CONTRACTOR: TO FURNISH ALL MATERIALS AND LABOR. TO INSTALL AND MAINTAIN THE WORK. TO MAINTAIN ACCESS TO ALL UTILITIES AND ADJACENT PROPERTIES.	SYMBOLS 1. 1/2\"/>	SPRINKLERS/NOZZLES <table border="1"> <tr> <th>MODEL</th> <th>STYLE</th> <th>SIZE</th> <th>ORIFICE</th> <th>TEMP</th> <th>IN</th> <th>OUT</th> <th>IN</th> <th>OUT</th> <th>IN</th> <th>OUT</th> </tr> <tr> <td>40</td> <td>UPRIGHT</td> <td>1/2</td> <td>5.6</td> <td>172</td> <td>100</td> <td>100</td> <td>100</td> <td>100</td> <td>100</td> <td>100</td> </tr> <tr> <td>40</td> <td>UPRIGHT</td> <td>3/4</td> <td>11.2</td> <td>172</td> <td>100</td> <td>100</td> <td>100</td> <td>100</td> <td>100</td> <td>100</td> </tr> <tr> <td>40</td> <td>UPRIGHT</td> <td>1</td> <td>16.8</td> <td>172</td> <td>100</td> <td>100</td> <td>100</td> <td>100</td> <td>100</td> <td>100</td> </tr> </table>	MODEL	STYLE	SIZE	ORIFICE	TEMP	IN	OUT	IN	OUT	IN	OUT	40	UPRIGHT	1/2	5.6	172	100	100	100	100	100	100	40	UPRIGHT	3/4	11.2	172	100	100	100	100	100	100	40	UPRIGHT	1	16.8	172	100	100	100	100	100	100	ABBREVIATIONS 1. 1/2\"/>	APPROVALS DESIGNER: _____ DATE: _____ CONTRACTOR: _____ DATE: _____	SYSTEM INFO DESIGNER: STEVEN FELLER, P.E. INC. CONTRACTOR: ORINELL FIRE PROTECTION DATE: 7-14-00	THE GRAND FLAMINGO 1500 BAY ROAD MIAMI BEACH, FLORIDA LEVEL 4 - SOUTH
MODEL	STYLE	SIZE	ORIFICE	TEMP	IN	OUT	IN	OUT	IN	OUT																																									
40	UPRIGHT	1/2	5.6	172	100	100	100	100	100	100																																									
40	UPRIGHT	3/4	11.2	172	100	100	100	100	100	100																																									
40	UPRIGHT	1	16.8	172	100	100	100	100	100	100																																									

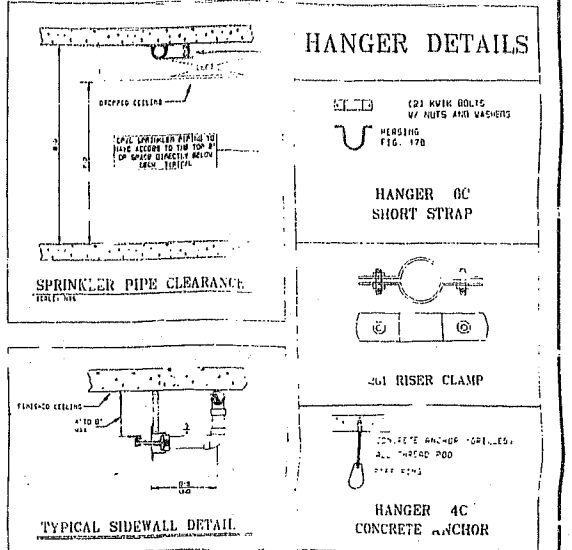


PLAN VIEW / MID-RISE / LEVEL 4 NW

SCALE: 3/32" = 1'-0"
FF EL. 155.3
PFD EL. 0'-0"
BDD = 33-500-21

SEE SHEET FP-1 FOR GENERAL NOTES

NOTE: THE PARKING GARAGE SYSTEMS ARE HYDRAULICALLY SIMILAR TO LEVEL 6

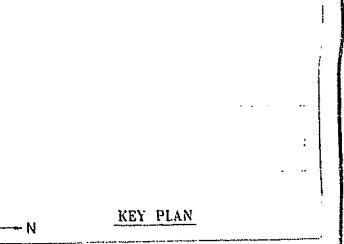


THIS PLAN HAS BEEN REVIEWED FOR THE APPEARANCE OF ITS HEAD LOCATIONS AND FOR CONFORMANCE OF PIPE WITH THE CEILING AS REPRESENTED. IT IS APPROVED FOR INSTALLATION AS SHOWN.

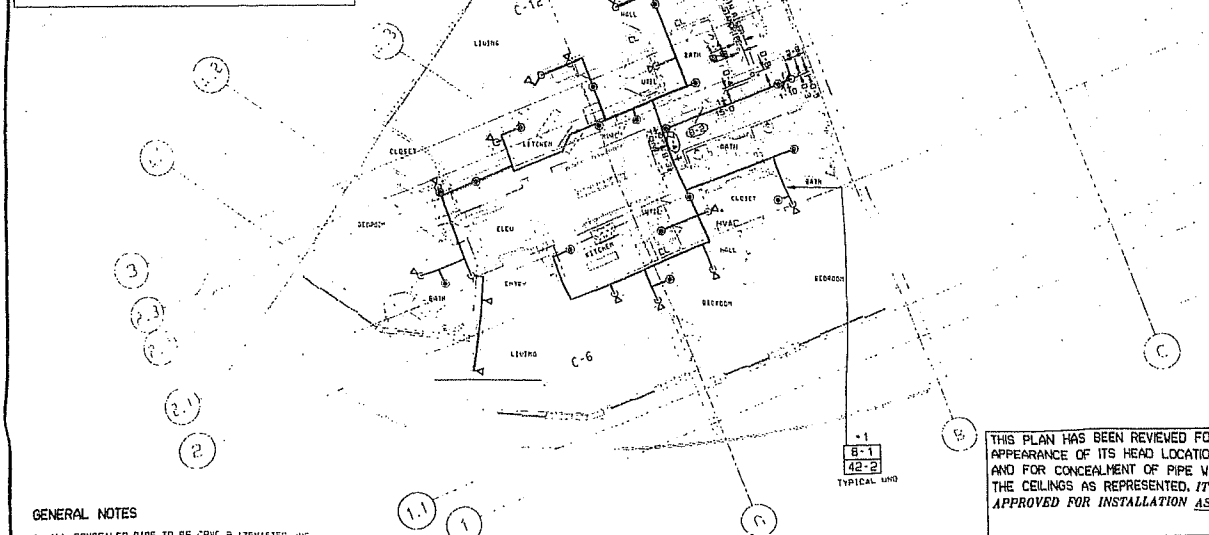
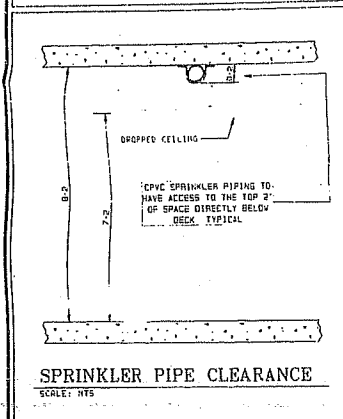
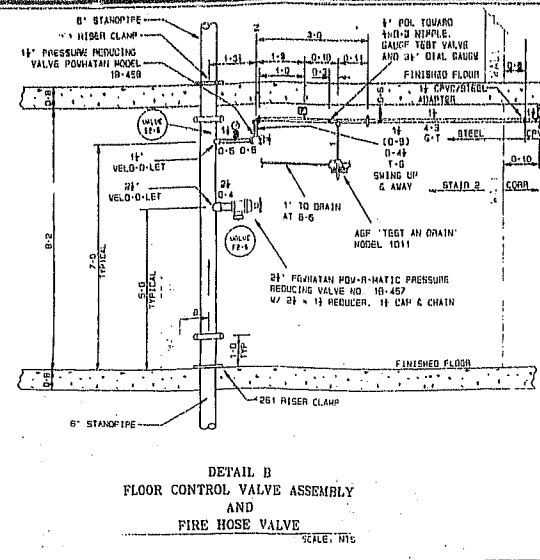
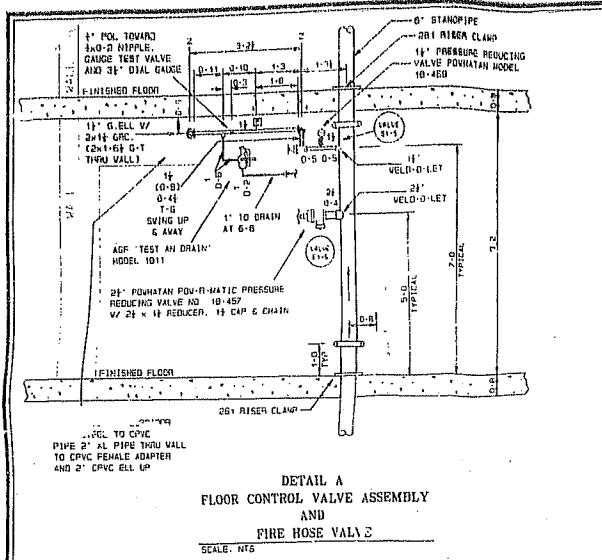
OWNER	DATE
ARCHITECT	DATE
ENGINEER	DATE

PIPE SUPPORT SPACING	
PIPE SIZE	MAXIMUM SPACING
1	9'-0"
2	6'-0"
3	7'-0"
4	0'-0"

- GENERAL NOTES
1. ALL CONCEALED PIPING TO BE IN CHASES OR IN CHASES TO BE 2" DIA. AND 12" TO 18" DEEP. ALL CONCEALED PIPING TO BE 2" DIA. AND 12" TO 18" DEEP.
 2. ALL PIPING TO BE SHOWN TO CONFORM TO THE CEILING AS REPRESENTED. IT IS APPROVED FOR INSTALLATION AS SHOWN.
 3. ALL PIPING TO BE SHOWN TO CONFORM TO THE CEILING AS REPRESENTED. IT IS APPROVED FOR INSTALLATION AS SHOWN.
 4. ALL PIPING TO BE SHOWN TO CONFORM TO THE CEILING AS REPRESENTED. IT IS APPROVED FOR INSTALLATION AS SHOWN.
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 7. ALL PIPING TO BE SHOWN TO CONFORM TO THE CEILING AS REPRESENTED. IT IS APPROVED FOR INSTALLATION AS SHOWN.
 8. ALL PIPING TO BE SHOWN TO CONFORM TO THE CEILING AS REPRESENTED. IT IS APPROVED FOR INSTALLATION AS SHOWN.



IMPORTANCE THIS DRAWING IS THE PROPERTY OF THE ENGINEER. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREON. IT IS NOT TO BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF THE ENGINEER.		CONTRACT RESPONSIBILITIES OWNER: THE GRAND FLAMINGO ARCHITECT: [Firm Name] ENGINEER: STEVEN FELLER, P.E., INC. DATE: [Date]		SYMBOLS [List of symbols for fire protection components]		SPRINKLERS/NOZZLES [Table of sprinkler specifications]		ABBREVIATIONS [List of abbreviations]		APPROVALS [Signatures and stamps]		REVISIONS [Revision table]		SYSTEM INFO [System details]		THE GRAND FLAMINGO [Project information]		NOTES [Additional notes]	
--	--	--	--	--	--	--	--	---	--	---	--	--------------------------------------	--	--	--	--	--	------------------------------------	--



GENERAL NOTES

1. ALL CONCEALED PIPE TO BE CPVC B-2 SYSTEM JUNC.
2. ALL EXPOSED PIPE TO BE SCH 40 OR XL FOR 1/2" - 1" AND SCH 10 FOR 2" IN AND LARGER.
3. ALL PIPE TO BE STRAPPED TO CONCRETE CEILING (+1) BELOW CHUCK (B-1) APP. UND.
4. ALL PIPE STRAPPED TO CONCRETE CEILING TO USE B-1 HANGERS UND.
5. ALL EXPOSED PIPE TO USE 4" HANGERS JNC.
6. ALL SIDEWALL SPRINKLER HEADS TO BE 4" IN. TO 6" IN. BELOW CEILING FROM DEFLECTOR.
7. SEE DRAWINGS PP-25, PP-26, PP-27 OR PP-28 FOR DETAILED UNITS.
8. PIPING AT THIS LEVEL HAS BEEN SIZED BY COMPARISON TO CALCULATED AREAS ON LEVELS 14 AND 15 (PLANS PP-27, PP-28, PP-29 & PP-30).

THIS PLAN HAS BEEN REVIEWED FOR THE APPEARANCE OF ITS HEAD LOCATIONS AND FOR CONCEALMENT OF PIPE WITHIN THE CEILING AS REPRESENTED. IT IS APPROVED FOR INSTALLATION AS SHOWN.

OWNER _____ DATE _____
ARCHITECT _____ DATE _____
GENERAL CONT. _____ DATE _____

STEVEN FELLER, P.E. (INC.)
CONSULTING ENGINEER
2501 W. OAKLAND PARK BLVD., SUITE 310
OAKLAND PARK, FL 33111 954-723-7400

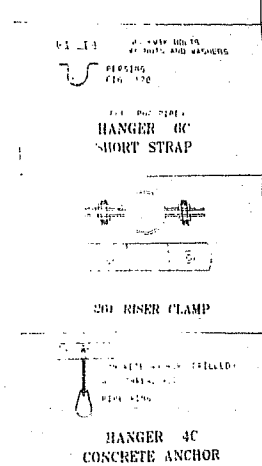
Grinnell Fire Protection
EXECUTIVE OFFICES - MIAMI, FLORIDA
LOCAL OFFICE: 4700 WEST 81ST STREET, MIAMI, FL 33141 772-722-7222

SYSTEM INFO
DATE: 10/1/2000
BY: J. FELLER
CHECKED: J. FELLER
APPROVED: J. FELLER

THE GRAND FLAMINGO
1550 BAY ROAD
MIAMI BEACH, FLORIDA
REV. 5-10-00

SYMBOLS	SPRINKLERS/NOZZLES	NOTES	ABBREVIATIONS	REVISIONS	APPROVALS
1. 1/2" CPVC B-2 SYSTEM JUNC. 2. 1/2" CPVC B-2 SYSTEM JUNC. 3. 1/2" CPVC B-2 SYSTEM JUNC. 4. 1/2" CPVC B-2 SYSTEM JUNC. 5. 1/2" CPVC B-2 SYSTEM JUNC. 6. 1/2" CPVC B-2 SYSTEM JUNC. 7. 1/2" CPVC B-2 SYSTEM JUNC. 8. 1/2" CPVC B-2 SYSTEM JUNC. 9. 1/2" CPVC B-2 SYSTEM JUNC. 10. 1/2" CPVC B-2 SYSTEM JUNC.	1. 1/2" CPVC B-2 SYSTEM JUNC. 2. 1/2" CPVC B-2 SYSTEM JUNC. 3. 1/2" CPVC B-2 SYSTEM JUNC. 4. 1/2" CPVC B-2 SYSTEM JUNC. 5. 1/2" CPVC B-2 SYSTEM JUNC. 6. 1/2" CPVC B-2 SYSTEM JUNC. 7. 1/2" CPVC B-2 SYSTEM JUNC. 8. 1/2" CPVC B-2 SYSTEM JUNC. 9. 1/2" CPVC B-2 SYSTEM JUNC. 10. 1/2" CPVC B-2 SYSTEM JUNC.	1. 1/2" CPVC B-2 SYSTEM JUNC. 2. 1/2" CPVC B-2 SYSTEM JUNC. 3. 1/2" CPVC B-2 SYSTEM JUNC. 4. 1/2" CPVC B-2 SYSTEM JUNC. 5. 1/2" CPVC B-2 SYSTEM JUNC. 6. 1/2" CPVC B-2 SYSTEM JUNC. 7. 1/2" CPVC B-2 SYSTEM JUNC. 8. 1/2" CPVC B-2 SYSTEM JUNC. 9. 1/2" CPVC B-2 SYSTEM JUNC. 10. 1/2" CPVC B-2 SYSTEM JUNC.	1. 1/2" CPVC B-2 SYSTEM JUNC. 2. 1/2" CPVC B-2 SYSTEM JUNC. 3. 1/2" CPVC B-2 SYSTEM JUNC. 4. 1/2" CPVC B-2 SYSTEM JUNC. 5. 1/2" CPVC B-2 SYSTEM JUNC. 6. 1/2" CPVC B-2 SYSTEM JUNC. 7. 1/2" CPVC B-2 SYSTEM JUNC. 8. 1/2" CPVC B-2 SYSTEM JUNC. 9. 1/2" CPVC B-2 SYSTEM JUNC. 10. 1/2" CPVC B-2 SYSTEM JUNC.	1. 1/2" CPVC B-2 SYSTEM JUNC. 2. 1/2" CPVC B-2 SYSTEM JUNC. 3. 1/2" CPVC B-2 SYSTEM JUNC. 4. 1/2" CPVC B-2 SYSTEM JUNC. 5. 1/2" CPVC B-2 SYSTEM JUNC. 6. 1/2" CPVC B-2 SYSTEM JUNC. 7. 1/2" CPVC B-2 SYSTEM JUNC. 8. 1/2" CPVC B-2 SYSTEM JUNC. 9. 1/2" CPVC B-2 SYSTEM JUNC. 10. 1/2" CPVC B-2 SYSTEM JUNC.	1. 1/2" CPVC B-2 SYSTEM JUNC. 2. 1/2" CPVC B-2 SYSTEM JUNC. 3. 1/2" CPVC B-2 SYSTEM JUNC. 4. 1/2" CPVC B-2 SYSTEM JUNC. 5. 1/2" CPVC B-2 SYSTEM JUNC. 6. 1/2" CPVC B-2 SYSTEM JUNC. 7. 1/2" CPVC B-2 SYSTEM JUNC. 8. 1/2" CPVC B-2 SYSTEM JUNC. 9. 1/2" CPVC B-2 SYSTEM JUNC. 10. 1/2" CPVC B-2 SYSTEM JUNC.

HANGER DETAILS

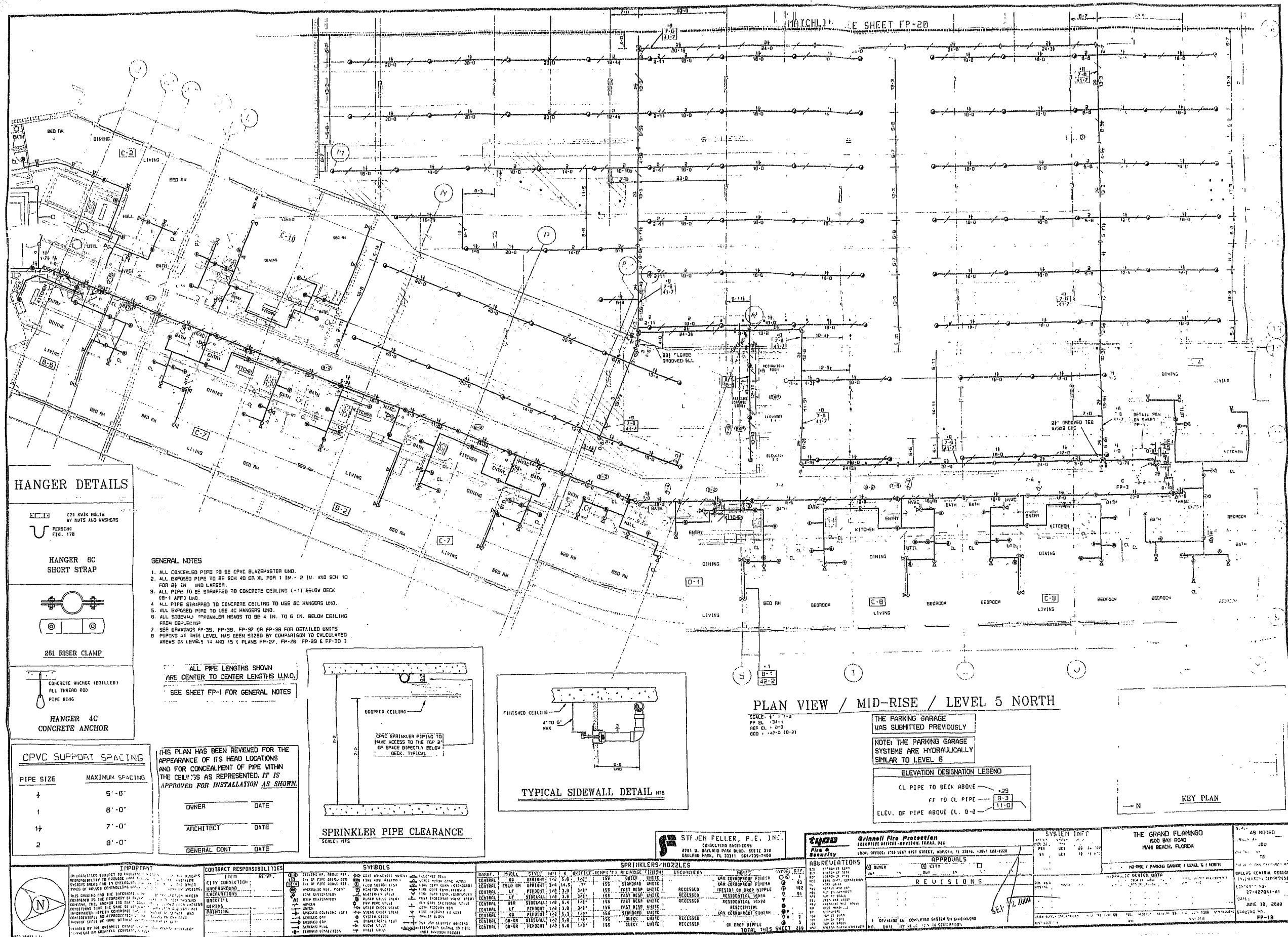


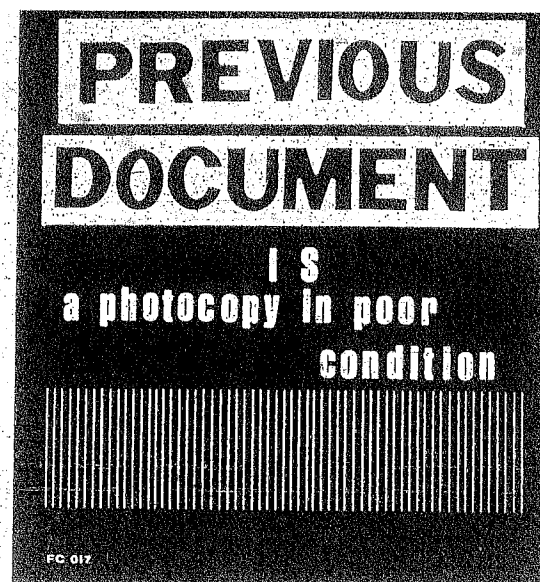
SPACING

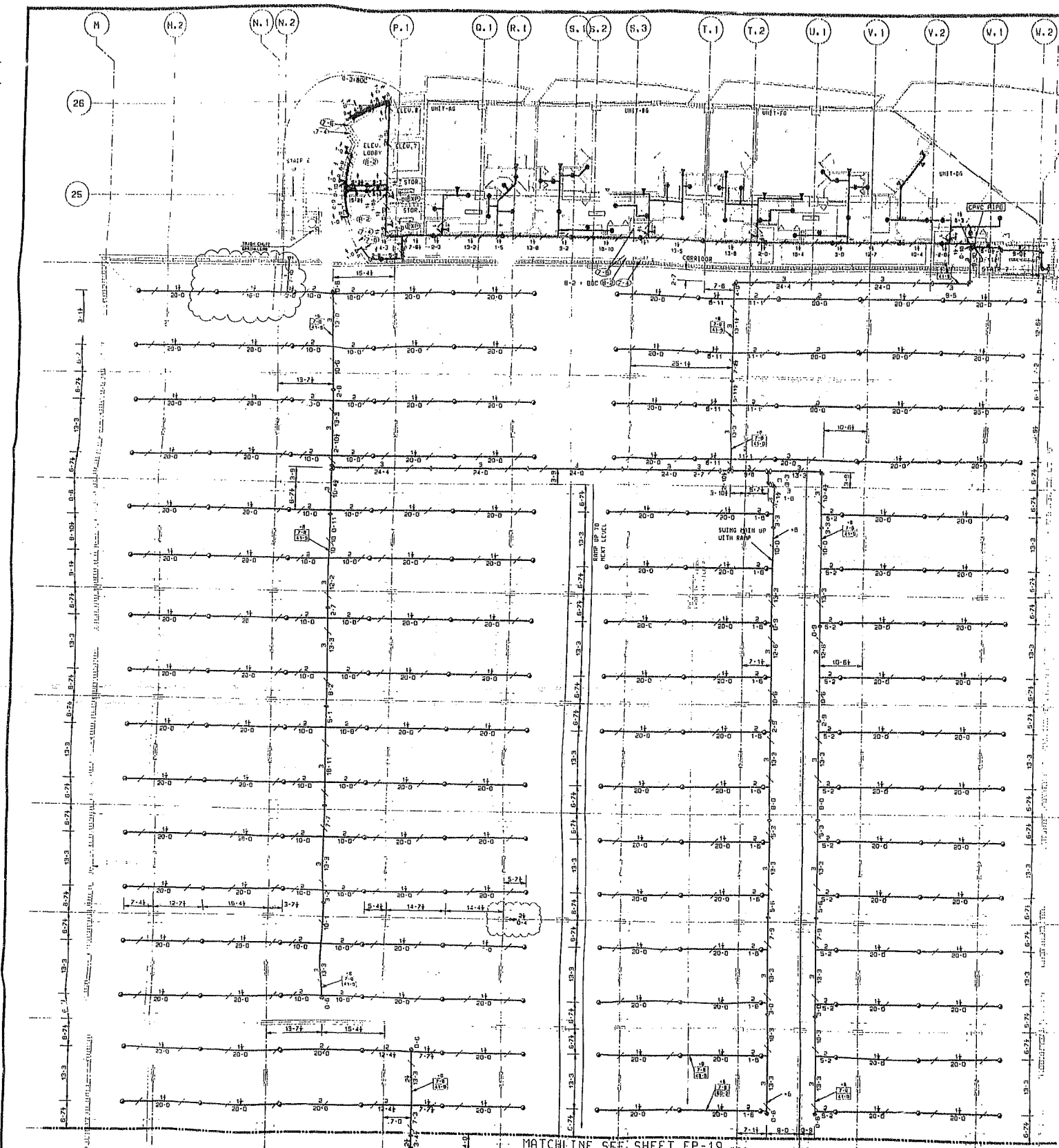
PIPE SIZE	MAX. W. SPACING
1/2"	6'
3/4"	6'
1"	6'
1 1/2"	6'
2"	6'-0"

KEY PLAN

N



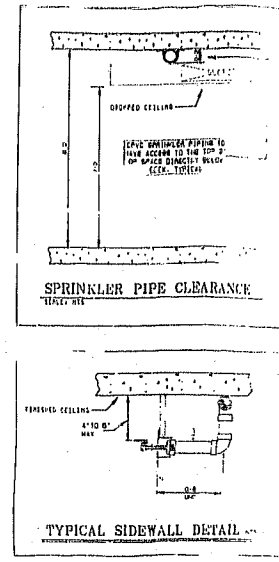




PLAN VIEW / MID-RISE / LEVEL 5 NW

SEE SHEET FP-1 FOR GENERAL NOTES

NOTE: THE PARKING GARAGE SYSTEMS ARE HYDRAULICALLY SIMILAR TO LEVEL 6



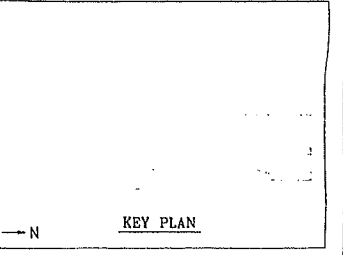
HANGER DETAILS

- 123 KNUX BOLTS
W/ NUTS AND WASHERS
FIG. 178
- HANGER 6C
SHORT STRAP
- 281 RISER CLAMP
- HANGER 4C
CONCRETE ANCHOR

THIS PLAN HAS BEEN REVIEWED FOR THE
APPROPRIATENESS OF THE HANGER LOCATIONS
AND FOR CONFORMANCE WITH THE
TYPICAL HANGER DETAIL. IT IS
APPROVED FOR INSTALLATION AS SHOWN.

OWNER	DATE
ARCHITECT	DATE
GENERAL CONTRACTOR	DATE
PIPE SUPPORT SPACING	
PIPE SIZE	MAXIMUM SPACING
1	5'-0"
2	6'-0"
3	7'-0"
4	8'-0"

- GENERAL NOTES
1. ALL CONCEALED PIPE TO BE 1/2" O.D. MINIMUM AND 1/2" WALL THICKNESS.
 2. ALL EXPOSED PIPE TO BE 1/2" O.D. MINIMUM AND 1/2" WALL THICKNESS.
 3. ALL EXPOSED PIPE TO BE 1/2" O.D. MINIMUM AND 1/2" WALL THICKNESS.
 4. ALL EXPOSED PIPE TO BE 1/2" O.D. MINIMUM AND 1/2" WALL THICKNESS.
 5. ALL EXPOSED PIPE TO BE 1/2" O.D. MINIMUM AND 1/2" WALL THICKNESS.
 6. ALL EXPOSED PIPE TO BE 1/2" O.D. MINIMUM AND 1/2" WALL THICKNESS.
 7. SEE SHEET FP-1 FOR GENERAL NOTES.
 8. SEE SHEET FP-1 FOR GENERAL NOTES.



IMPORTANT

IN LOCATIONS SUBJECT TO FREQUENT VIBRATION, SUCH AS NEAR ELEVATORS, STAIRS, AND OTHER VIBRATING DEVICES, THE PIPING SHALL BE SUPPORTED BY VIBRATION RESISTANT HANGERS. THE HANGERS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. THE HANGERS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. THE HANGERS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

CONTRACT RESPONSIBILITIES

OWNER: THE GRAND FLAMINGO
ARCHITECT: [Faint text]
GENERAL CONTRACTOR: [Faint text]

SYMBOLS

SPRINKLER: [Symbol]
NOZZLE: [Symbol]
HANGER: [Symbol]
RISER CLAMP: [Symbol]
CONCRETE ANCHOR: [Symbol]

SPRINKLERS/NOZZLES

NO.	TYPE	SIZE	UNIT	LOCATION	FINISH
1	UPRIGHT	1/2"	1.0	UNIT 1-01	WHITE
2	UPRIGHT	1/2"	1.0	UNIT 1-02	WHITE
3	UPRIGHT	1/2"	1.0	UNIT 1-03	WHITE
4	UPRIGHT	1/2"	1.0	UNIT 1-04	WHITE
5	UPRIGHT	1/2"	1.0	UNIT 1-05	WHITE
6	UPRIGHT	1/2"	1.0	UNIT 1-06	WHITE
7	UPRIGHT	1/2"	1.0	UNIT 1-07	WHITE
8	UPRIGHT	1/2"	1.0	UNIT 1-08	WHITE
9	UPRIGHT	1/2"	1.0	UNIT 1-09	WHITE
10	UPRIGHT	1/2"	1.0	UNIT 1-10	WHITE
11	UPRIGHT	1/2"	1.0	UNIT 1-11	WHITE
12	UPRIGHT	1/2"	1.0	UNIT 1-12	WHITE
13	UPRIGHT	1/2"	1.0	UNIT 1-13	WHITE
14	UPRIGHT	1/2"	1.0	UNIT 1-14	WHITE
15	UPRIGHT	1/2"	1.0	UNIT 1-15	WHITE
16	UPRIGHT	1/2"	1.0	UNIT 1-16	WHITE
17	UPRIGHT	1/2"	1.0	UNIT 1-17	WHITE
18	UPRIGHT	1/2"	1.0	UNIT 1-18	WHITE
19	UPRIGHT	1/2"	1.0	UNIT 1-19	WHITE
20	UPRIGHT	1/2"	1.0	UNIT 1-20	WHITE
21	UPRIGHT	1/2"	1.0	UNIT 1-21	WHITE
22	UPRIGHT	1/2"	1.0	UNIT 1-22	WHITE
23	UPRIGHT	1/2"	1.0	UNIT 1-23	WHITE
24	UPRIGHT	1/2"	1.0	UNIT 1-24	WHITE
25	UPRIGHT	1/2"	1.0	UNIT 1-25	WHITE
26	UPRIGHT	1/2"	1.0	UNIT 1-26	WHITE

ABBREVIATIONS

SPRINKLER: [Symbol]
NOZZLE: [Symbol]
HANGER: [Symbol]
RISER CLAMP: [Symbol]
CONCRETE ANCHOR: [Symbol]

APPROVALS

OWNER: [Signature]
ARCHITECT: [Signature]
GENERAL CONTRACTOR: [Signature]

REVISIONS

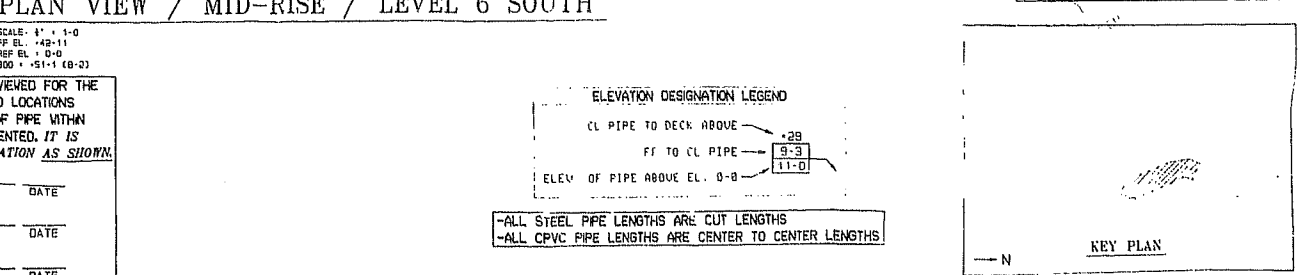
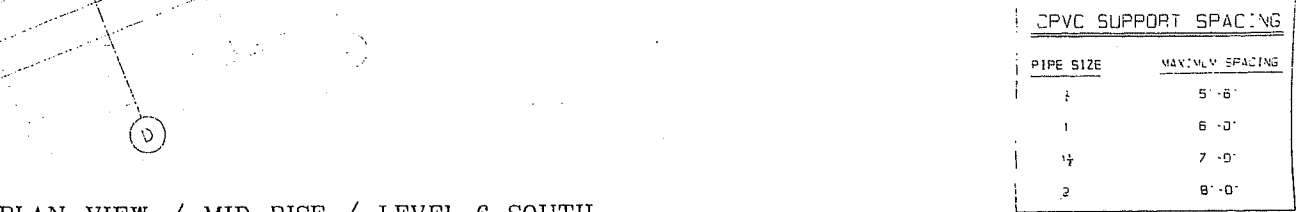
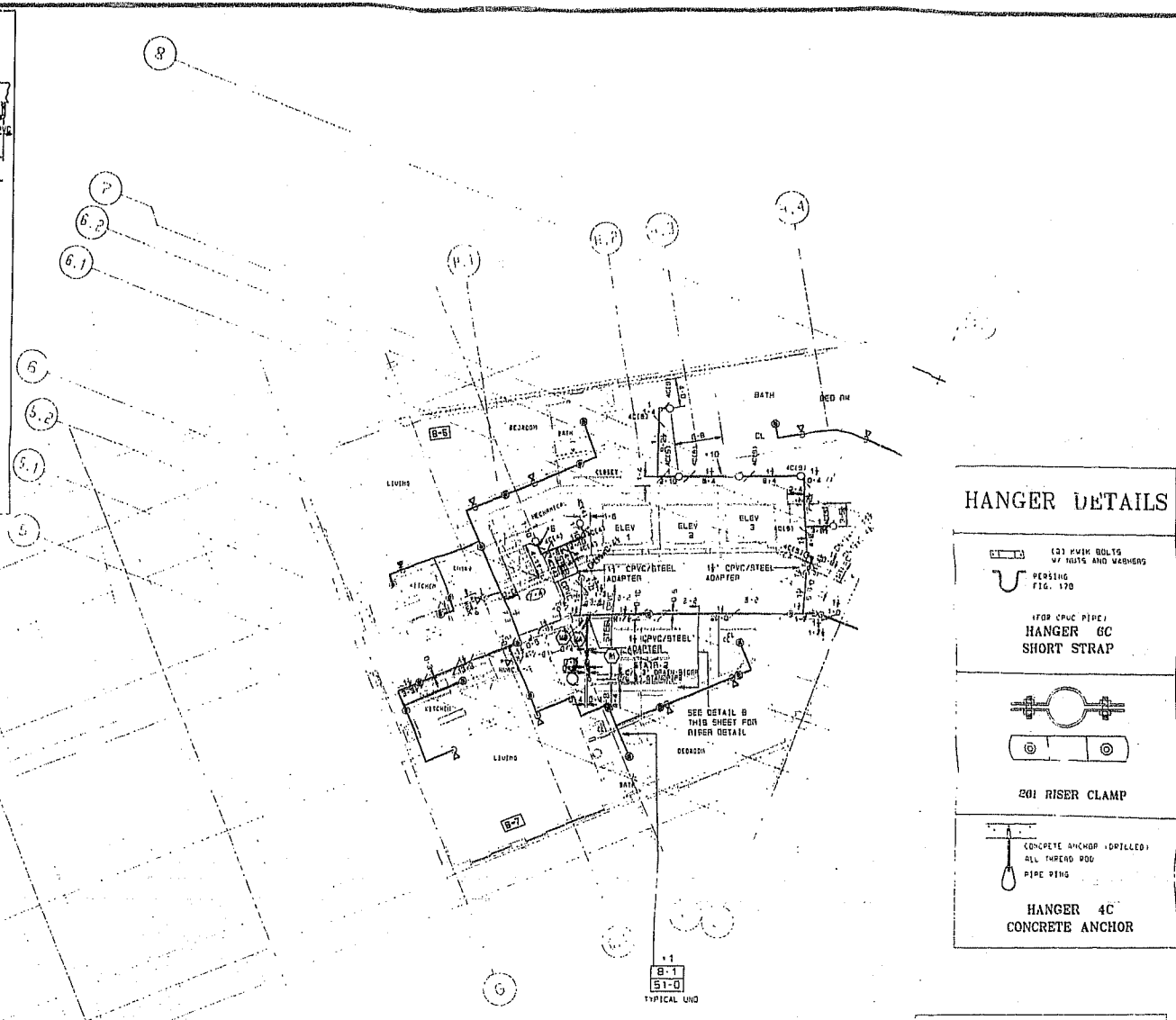
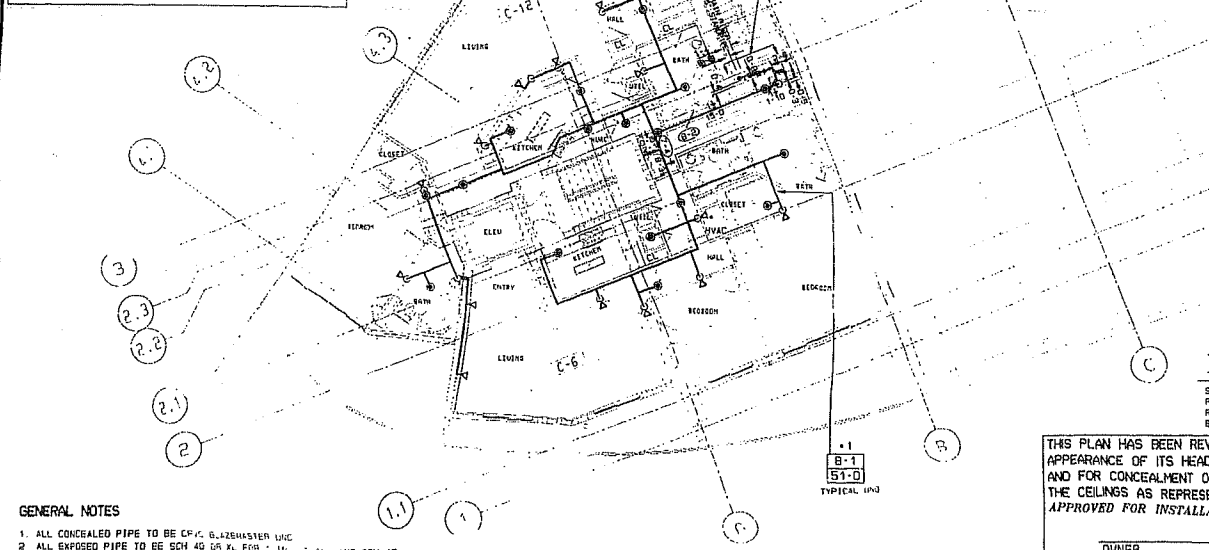
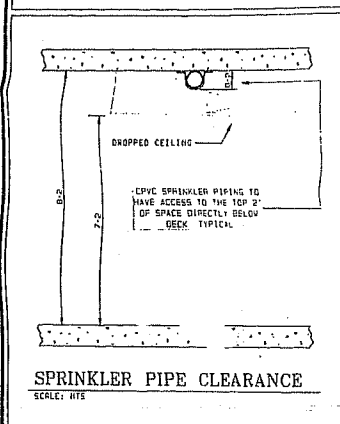
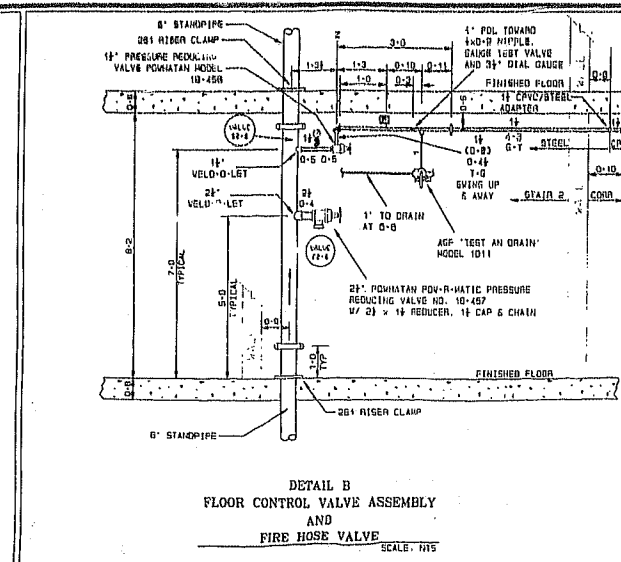
NO.	DESCRIPTION	DATE
1	ISSUED FOR PERMIT	09/12/2000

SYSTEM INFO

THE GRAND FLAMINGO
1500 BAY ROAD
FLORIDA BEACH, FLORIDA

AS NOTED

DATE: 09/12/2000
DRAWN BY: [Faint text]
CHECKED BY: [Faint text]
APPROVED BY: [Faint text]



GENERAL NOTES

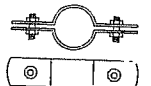
1. ALL CONCEALED PIPE TO BE CPVC, GLAZEMASTER AND
2. ALL EXPOSED PIPE TO BE SCH 40 OR XL FOR 1/2" 3/4" AND SCH 10
3. FOR 2 IN. AND LARGER.
4. ALL PIPE TO BE STRAPPED TO CONCRETE CEILING (+1) BELOW DECK
5. (B-1 AFF) AND
6. ALL PIPE STRAPPED TO CONCRETE CEILING 10 USE EC HANGERS UND.
7. ALL EXPOSED PIPE TO USE 4C HANGERS UND.
8. ALL STEELVAL SPRINKLER HEADS TO BE 4 IN. TO 6 IN. BELOW CEILING
9. FROM DEFLECTOR.
10. SEE DRAWINGS PP-35, PP-38, PP-39 FOR PP-39 PP-40 DEtaILED UNITS
11. PIPING AT THIS LEVEL HAS BEEN SIZED BY COMPARISON TO CALCULATED
12. AREAS ON LEVELS 14 AND 15 (PLANS PP-27, PP-28, PP-29 & PP-30)

[illegible]

HANGER DETAILS

(2) 1/2" X 1/2" BOLTS
W/ NUTS AND WASHERS
PER SP-10

HANGER 6C
SHORT STRAP



281 RISER CLAMP

CONCRETE ANCHOR (DRILLED)
ALL THREAD ROD
PIPE RING

HANGER 4C
CONCRETE ANCHOR

CPVC SUPPORT SPACING

PIPE SIZE	MAXIMUM SPACING
1/2"	5'-6"
1"	6'-0"
1 1/2"	7'-0"
2"	8'-0"

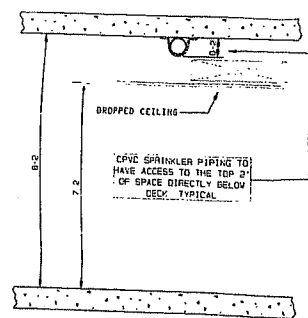
GENERAL NOTES

1. ALL CONCEALED PIPE TO BE CPVC BLAZEMASTER UND.
2. ALL EXPOSED PIPE TO BE SCH 40 OR XL FOR 1 IN. - 2 IN. AND SCH 10 FOR 2 1/2 IN. AND LARGER.
3. ALL PIPE TO BE STRAPPED TO CONCRETE CEILING (+1) BELOW DECK (B-1 AFF) UND.
4. ALL PIPE STRAPPED TO CONCRETE CEILING TO USE 6C HANGERS UND.
5. ALL EXPOSED PIPE TO USE 4C HANGERS UND.
6. ALL SIDEWALL SPRINKLER HEADS TO BE 4 IN. TO 6 IN. BELOW CEILING FROM DEFLECTOR.
7. SEE DRAWINGS FP-35, FP-36, FP-37 OR FP-38 FOR DETAILED UNITS.
8. PIPING AT THIS LEVEL HAS BEEN SIZED BY COMPARISON TO CALCULATED AREAS ON LEVELS 14 AND 15 (PLANS FP-27, FP-28, FP-29 & FP-30).

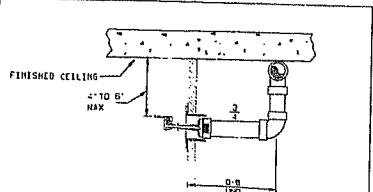
ALL PIPE LENGTHS SHOWN
ARE CENTER TO CENTER LENGTHS UND.
SEE SHEET FP-1 FOR GENERAL NOTES

THIS PLAN HAS BEEN REVIEWED FOR THE
APPEARANCE OF ITS HEAD LOCATIONS
AND FOR CONCEALMENT OF PIPE WITHIN
THE CEILINGS AS REPRESENTED. IT IS
APPROVED FOR INSTALLATION AS SHOWN.

OWNER _____ DATE _____
ARCHITECT _____ DATE _____
GENERAL CONT _____ DATE _____



SPRINKLER PIPE CLEARANCE
SCALY HTS



TYPICAL SIDEWALL DETAIL HTS

PLAN VIEW / MID-RISE / LEVEL 6 NORTH

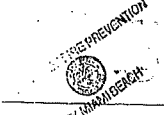
SCALE: 1" = 1'-0"
FP EL. +10'-0"
REF. EL. +10'-0"
BOD. +10'-0" (2'-6")

THE PARKING GARAGE
WAS SUBMITTED PREVIOUSLY

NOTE: THE PARKING GARAGE
SYSTEMS ARE HYDRAULICALLY
SIMILAR TO LEVEL 6N

ELEVATION DESIGNATION LEGEND

CL PIPE TO DECK ABOVE +28
FF TO CL PIPE +9-3
ELEV. OF PIPE ABOVE EL. 0-0 +11-0



KEY PLAN

IMPORTANT
IN ORDER TO BE ABLE TO PROTECT
THESE SYSTEMS, IT IS NECESSARY THAT
THESE SYSTEMS BE PROTECTED BY
THESE SYSTEMS. THESE SYSTEMS
SHOULD BE PROTECTED BY THESE
SYSTEMS. THESE SYSTEMS SHOULD
BE PROTECTED BY THESE SYSTEMS.
THESE SYSTEMS SHOULD BE
PROTECTED BY THESE SYSTEMS.

CONTRACT RESPONSIBILITIES
THESE SYSTEMS SHOULD BE
PROTECTED BY THESE SYSTEMS.
THESE SYSTEMS SHOULD BE
PROTECTED BY THESE SYSTEMS.

SYMBOLS
THESE SYSTEMS SHOULD BE
PROTECTED BY THESE SYSTEMS.
THESE SYSTEMS SHOULD BE
PROTECTED BY THESE SYSTEMS.

SPRINKLERS/NOZZLES
THESE SYSTEMS SHOULD BE
PROTECTED BY THESE SYSTEMS.
THESE SYSTEMS SHOULD BE
PROTECTED BY THESE SYSTEMS.

STEVEN FELLER, P.C. INC.
CONSULTING ENGINEERS
2781 W. ORLAND PARK BLVD., SUITE 110
ORLAND PARK, IL 60161 815-731-7400

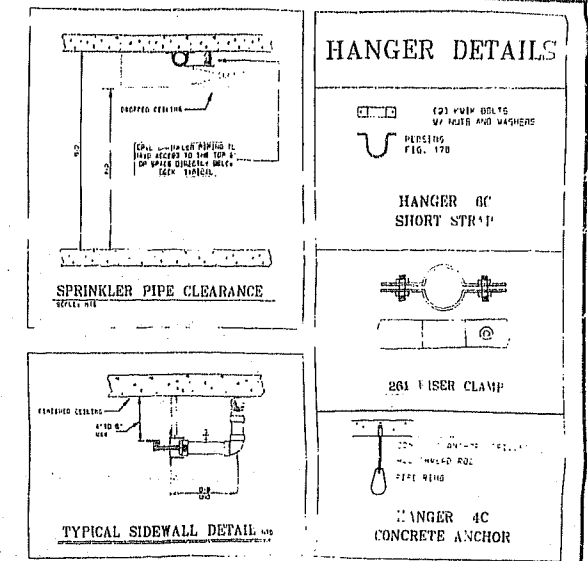
Orinall Fire Protection
ELECTRICAL ENGINEERING, DESIGN, & CONSTRUCTION
LOCAL OFFICE: 2781 WEST FIRST STREET, SUITE 110, ORLAND PARK, IL 60161
TEL: 815-731-7400 FAX: 815-731-7401

REVISIONS
DATE DESCRIPTION
1. 12/12/00

SYSTEM INFO
THESE SYSTEMS SHOULD BE
PROTECTED BY THESE SYSTEMS.

THE GRAND FLAMINGO
1500 BAY ROAD
MIAMI BEACH, FLORIDA

DATE: JUNE 30, 2000
DRAWING NO.: FP-22

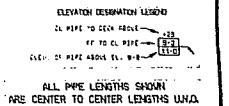


THIS PLAN HAS BEEN REVIEWED FOR THE
APPEARANCE OF ITS HEAD LOCATIONS
AND FOR CONFORMANCE OF PIPE WITHIN
THE CORING AS REPRESENTED. IT IS
APPROVED FOR INSTALLATION AS SHOWN.

OWNER _____ DATE _____
ARCHITECT _____ DATE _____
GENERAL CONT. _____ DATE _____

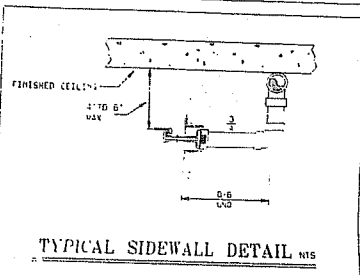
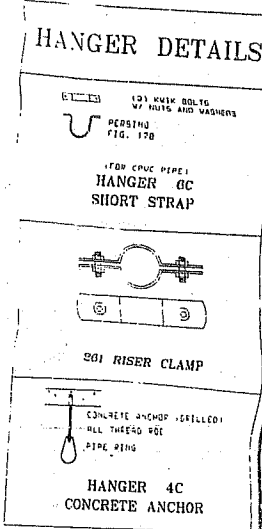
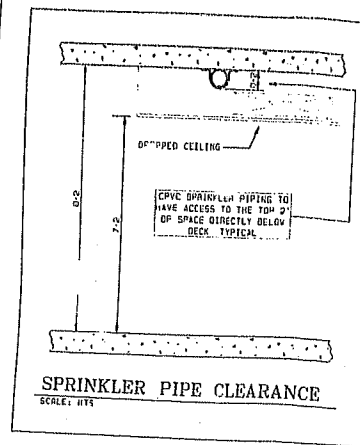
DWC SUPPORT SPACING	
PIPE SIZE	MAXIMUM SPACING
4	5'-0"
6	6'-0"
12	7'-0"
24	8'-0"

- ### GENERAL NOTES
1. ALL CONCEALED PIPE TO BE 2" SCH 40/25MM DIA UNO
 2. ALL EXPOSED PIPE TO BE SCH 40 OR 1/2" SCH 20 2 IN AND SCH 40 FOR 2 IN, 1/2" AND LARGER. TYPICAL FOR PIPE EAST OF EXHIBIT LINE 24)
 3. ALL PIPE TO BE SHOWN TO CONCRETE CEILING 1" BELOW CEILING
 4. 1/2" AFFI. UNO
 5. ALL PIPE SHOWN TO CONCRETE CEILING TO USE SC HANGERS UNO
 6. ALL EXPOSED PIPE TO USE SC HANGERS UNO
 7. ALL SUGGICAL CONTAINER HEADS TO 2" DIA 1/2" AFFI. BELOW CEILING WAS DETECTED.
 8. SEE DRAWINGS 10-25, 10-26, 10-27, 10-28, 10-29, 10-30 FOR DETAILED UNITS
 9. GARDEN, FLOOR 2 IN UNO 1/2" DIA SIZED SIMILAR TO CALCULATED UNITS ON FLOOR 2 IN UNO 200 2"



KEY PLAN

[illegible]



CPVC SUPPORT SPACING	
PIPE SIZE	MAXIMUM SPACING
1/2	5'-6"
1	6'-0"
1 1/2	7'-0"
2	8'-0"

ELEVATION DESIGNATION LEGEND

CL PIPE TO DECK ABOVE → +29
FF TO CL PIPE → 9-3
LEV. GF PIPE ABOVE EL 0-0 → 11-0

GENERAL NOTES

- 1 ALL CONCRETE PIPE TO BE 6"X12" UNWATERED
- 2 ALL EXPOSED PIPE TO BE SCH 40 (6" AL PIPE - 11")
- 3 ALL PIPE TO BE LAPPED AND STRAPPED TO CONCRETE TIE BARS (11") AND SCH 40 FOR 21" UNDO
- 4 ALL PIPE TO BE STRAPPED TO CONCRETE TIE BARS (11") BELOW CURB
- 5 ALL PIPE STRAPPED TO CONCRETE TIE BARS (11") 6" BEHIND CURB
- 6 ALL EXPOSED PIPE TO USE 40 HANGERS UNDO
- 7 ALL SIDEWALK SPRINKLER HEADS TO BE 4" IN 15" IN BELOW CURB

SEE DRAWINGS PP. 25, 36, 37, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824,

-ALL STEEL PIPE LENGTHS ARE CUT LENGTHS
-ALL CPVC PIPE LENGTHS ARE CENTER TO CENTER LENGTHS

THIS PLAN HAS BEEN REVIEWED FOR THE APPEARANCE OF ITS HEAD LOCATIONS AND FOR CONCEALMENT OF PIPE WITHIN THE CEILINGS AS REPRESENTED. IT IS APPROVED FOR INSTALLATION AS SHOWN.

OWNER	DATE
ARCHITECT	DATE
GENERAL CONT	DATE

STEVEN FELLER, P.E. INC.
CONSULTING ENGINEERS
8781 W. OAKLAND PARK BLVD., SUITE 310
OAKLAND PARK, FL 33311 954/730-7400

tyco
Fire &
Security

Original Fire Protection
EXECUTIVE OFFICE - HOUSTON, TEXAS, U.S.A.
LOCAL OFFICE: 2700 WEST BICY STREET, HARRISBURG, PA.

SYSTEM INFO			
SYSTEM :	SYSTEM	COIN	..
ARM :	ARM	SIZE	..

THE GRAND FLAMINGO
1500 BAY ROAD

MAN BEACH, FLORIDA
ALAN KRON
TIB BURNFIELD

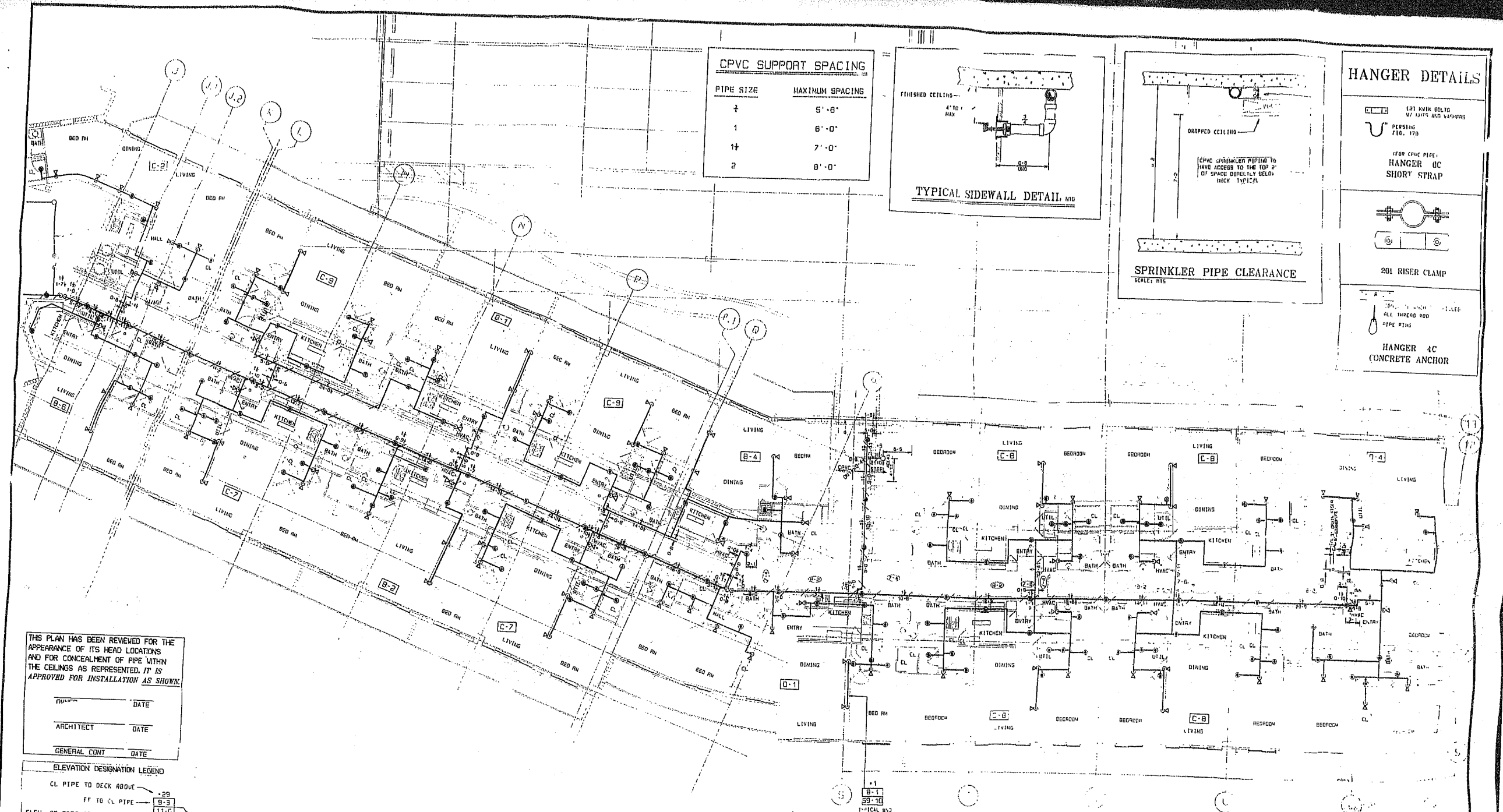
LEVEL 7 - SOUTH

HYDRAULIC DESIGN DATA

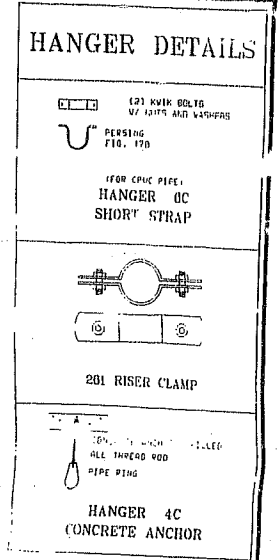
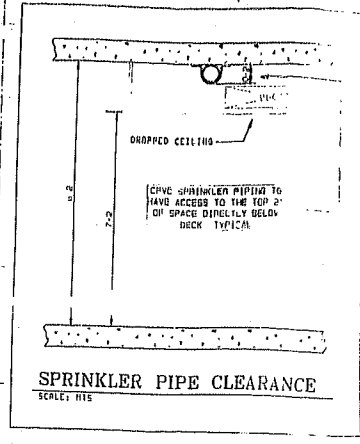
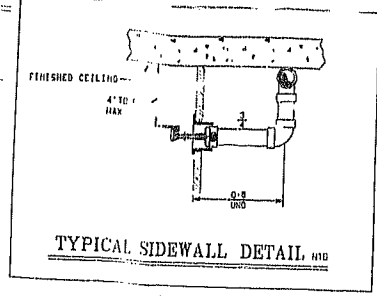
DALLAS CENTRAL DESIGN

27-427841-01
(01)

7-14 00
FP-20



CPVC SUPPORT SPACING	
PIPE SIZE	MAXIMUM SPACING
1/2"	5'-0"
1"	6'-0"
1 1/2"	7'-0"
2"	8'-0"



THIS PLAN HAS BEEN REVIEWED FOR THE APPEARANCE OF ITS HEAD LOCATIONS AND FOR CONCEALMENT OF PIPE WITHIN THE CEILING AS REPRESENTED. IT IS APPROVED FOR INSTALLATION AS SHOWN.

DATE _____
ARCHITECT _____
GENERAL CONT. DATE _____

ELEVATION DESIGNATION LEGEND
CL PIPE TO DECK ABOVE +29
FF TO CL PIPE 9'-3"
ELEV. OF PIPE ABOVE EL. 0-0 11'-6"

-ALL STEEL PIPE LENGTHS ARE CUT LENGTHS
-ALL CPVC PIPE LENGTHS ARE CENTER TO CENTER LENGTHS

- GENERAL NOTES
1. ALL CONCEALED PIPE TO BE CPVC 1/2" OR 3/4" AND 1/2" OR 3/4" AND SCH 40.
 2. ALL EXPOSED PIPE TO BE 1/2" OR 3/4" AND 1/2" OR 3/4" AND SCH 40.
 3. ALL PIPE TO BE STRAPPED TO CONCRETE CEILING 1/2" BELOW DECK (B-1 AFF) AND
 4. ALL PIPE STRAPPED TO CONCRETE CEILING TO USE 2" HANGERS AND
 5. ALL EXPOSED PIPE TO USE 4" HANGERS AND
 6. ALL SIDEWALL SPRINKLER HEADS TO BE 4" IN. TO 2" IN. BELOW CEILING FROM DEFLECTOR.
 7. SEE DRAWINGS PP-25, PP-26, PP-27 OR PP-28 FOR DETAILED UNITS
 8. PIPING AT THIS LEVEL HAS BEEN SIZED BY COMPARISON TO CALCULATED AREAS ON LEVELS 14 AND 15 C PLANS PP-29 & PP-30

PLAN VIEW / MID-RISE / LEVEL 7 NORTH

STEVEN FELLER, P.E.
CONSULTING ENGINEER
2701 N. GARDEN PARK BLVD., SUITE 200
DALLAS, TEXAS 75245-1200

Orinell Fire Protection
Fire Protection Engineers
1700 WEST STREET, SUITE 100, DALLAS, TEXAS 75201-1000
TELEPHONE: 214-751-1000
FAX: 214-751-1001

THE GRAND FLAMINGO
500 BAY ROAD
MIAMI BEACH, FLORIDA 33139

LEVEL 7 NORTH

REVISIONS

NO.	DATE	DESCRIPTION
1	09-14-00	ISSUED FOR PERMIT

APPROVALS

DESIGNED BY	CHECKED BY
DRAWN BY	IN CHARGE

SYMBOLS

PIPE	SPRINKLER	NOZZLE
1/2" CPVC	1/2" CPVC	1/2" CPVC

SPRINKLERS/NOZZLES

NO.	TYPE	SIZE	LOCATION	STATUS
1	STANDARD	1/2"	LIVING	RECEIVED

ABBREVIATIONS

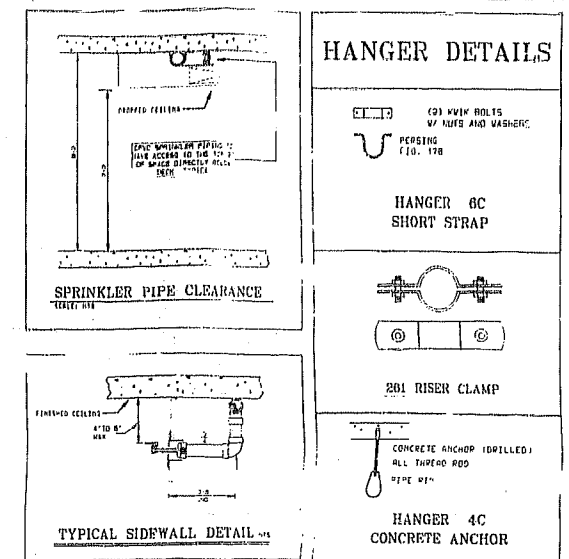
CL	CENTRAL
FF	FREE FLOOR

CONTRACT RESPONSIBILITIES

CLIENT	ARCHITECT
ENGINEER	INSPECTOR

INFORM

FOR THE RECORD



THIS PLAN HAS BEEN REVIEWED FOR THE APPEARANCE OF ITS HEAD LOCATIONS AND FOR CONCEALMENT OF PIPE WITHIN THE CEILING AS REPRESENTED. IT IS APPROVED FOR INSTALLATION AS SHOWN.

OWNER	DATE
ARCHITECT	DATE
GENERAL CONTRACTOR	DATE

PIPE SIZE	MAXIMUM SPACING
1	5'-0"
2	6'-0"
3	7'-0"
4	8'-0"

GENERAL NOTES

1. CONCEALED PIPE TO BE CPVC OR ALUMINUM
2. EXPOSED PIPE TO BE SCH 40 DA IL FOR 1 IN. 2 IN. AND SCH 40 FOR 2 1/2 IN. AND LARGER THICK FOR PIPE HANGERS AND COUPLERS. SEE PAGE 242
3. PIPE TO BE STRAPPED TO CONCRETE CEILING 2" x 4" ALUM. ANG.
4. 3" x 4" x 1/2"
5. PIPE STRAPPED TO CONCRETE CEILING 2" x 4" x 1/2" ALUM. ANG.
6. ALL EXPOSED PIPE TO USE 4" HANGERS AND
7. 1/2" RIGID WALL SPRINKLER HEADS 2 1/2" x 4" x 1/2" IN 6.5' x 2" CEILING
8. PROTECTION
9. SEE DRAWINGS 04-15 16-16 17-14 18-10 19-23 FOR CEILING UNITS

Diagram illustrating a fire alarm system. A bell is connected to a control panel. The control panel has a 'FIRE' button and a 'FIRE PREVENTION' sign. The diagram is labeled 'FIRE PREVENTION' and 'FIRE'.

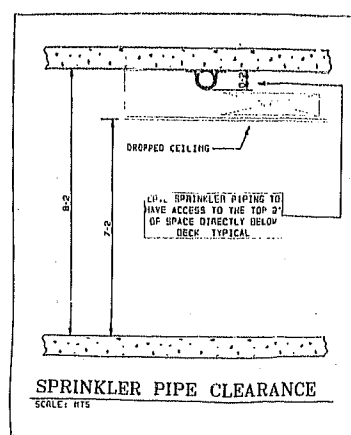
SCALE, 3/32" = 1'-0"
FF CL. = 51'-0"
REF EL. = 0'-0"
GOD = 59'-11" (8-2) (WEST COL 24)
GOD = 63'-1" (VAR) (EAST COL 24)

SEE SHEET FP-1 FOR GENERAL NOTES

SEE SHEET EP-1 FOR GENERAL NOTES

KEY PLAN

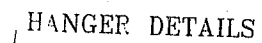
[illegible]



OWNER	DATE
ARCHITECT	DATE
GENERAL CONT	DATE

SCALE: NTS

1. ALL EXPOSED PIPE TO BE EPVC BLAZEMASTER UND
2. ALL EXPOSED PIPE TO BE SCH 40 GR 60 PL 1 IN - 2 IN AND SCH 10
FOR 2 1/2 IN. AND LARGER
3. ALL PIPE TO BE STRAPPED TO CONCRETE CEILING (11) BELOW DECK
G-1 AFF AND
4. ALL PIPE STRAPPED TO CONCRETE CEILING TO USE 6C HANGERS UND
5. ALL EXPOSED PIPE TO USE 4C HANGERS UND
6. ALL SIDEWALL SPRINKLER HEADS TO BE 4 IN TO 6 IN BELOW CEILING
FROM DEFLECTOR
7. SEE DRAWINGS FP-26, FP-28, FP-27 64 FP-29 FOR DETAILED UNITS
8. PIPE ON THIS LEVEL HAS BEEN SIZED BY COMPARISON TO CALCULATED
AREAS ON LEVELS 14 AND 15 & PLANS FP-27, FP-28, FP-25 & FP-30 J



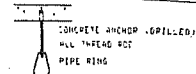
(2) U-BOLT BOLTS
W/ NUTS AND WASHERS

U
PERSING
FIG. 170

FOR CROC PIPE,
HANGER GC
SHORT STRAP

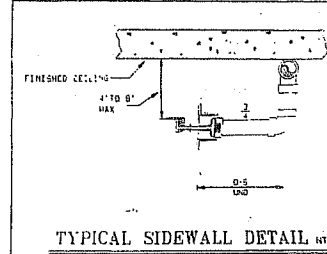


201 RISER CLAM



HANGER 4C
CONCRETE ANCHOR

CPVC SUPPORT SPACING	
PIPE SIZE	MAXIMUM SPACING
1/2	5'-6"
1	6'-0"
1 1/2	7'-0"
2	8'-0"



SCALE, 1" = 1'-0"
LEVEL 8 • FLOOR ELEV. 60'-7"
LEVEL 10 • FLOOR ELEV. 78'-3"
LEVEL 12 • FLOOR ELEV. 95'-11"
LEVEL 14 • FLOOR ELEV. 113'-7"

CL PIPE TO DECK ABOVE → 29
FF TO CL PIPE → 9.3
ELEV. OF PIPE ABOVE EL. 0-0 → 11.0

-ALL STEEL PIPE LENGTHS ARE CUT LENGTHS
-ALL CPVC PIPE LENGTHS ARE CENTER TO CENTER LENGTHS

KEY PLAN

REPORT

THIS REPORT IS SUBJECT TO THE FOLLOWING CONDITIONS:

1. THE REPORT IS BASED ON THE INFORMATION PROVIDED BY THE CLIENT AND THE FIELD REPRESENTATIVE.
2. THE REPORT IS NOT A GUARANTEE OF THE ACCURACY OF THE INFORMATION PROVIDED.
3. THE REPORT IS NOT A GUARANTEE OF THE COMPLETION OF THE PROJECT.
4. THE REPORT IS NOT A GUARANTEE OF THE QUALITY OF THE WORK.
5. THE REPORT IS NOT A GUARANTEE OF THE SAFETY OF THE PROJECT.
6. THE REPORT IS NOT A GUARANTEE OF THE DURABILITY OF THE PROJECT.
7. THE REPORT IS NOT A GUARANTEE OF THE PERFORMANCE OF THE PROJECT.
8. THE REPORT IS NOT A GUARANTEE OF THE COST OF THE PROJECT.
9. THE REPORT IS NOT A GUARANTEE OF THE TIME OF THE PROJECT.
10. THE REPORT IS NOT A GUARANTEE OF THE LOCATION OF THE PROJECT.

THESE CONDITIONS ARE SUBJECT TO THE FOLLOWING:

1. THE CLIENT SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION PROVIDED.
2. THE CLIENT SHALL BE RESPONSIBLE FOR THE COMPLETION OF THE PROJECT.
3. THE CLIENT SHALL BE RESPONSIBLE FOR THE QUALITY OF THE WORK.
4. THE CLIENT SHALL BE RESPONSIBLE FOR THE SAFETY OF THE PROJECT.
5. THE CLIENT SHALL BE RESPONSIBLE FOR THE DURABILITY OF THE PROJECT.
6. THE CLIENT SHALL BE RESPONSIBLE FOR THE PERFORMANCE OF THE PROJECT.
7. THE CLIENT SHALL BE RESPONSIBLE FOR THE COST OF THE PROJECT.
8. THE CLIENT SHALL BE RESPONSIBLE FOR THE TIME OF THE PROJECT.
9. THE CLIENT SHALL BE RESPONSIBLE FOR THE LOCATION OF THE PROJECT.

SYMBOLS

SYMBOL	DESCRIPTION
1	1" PIPING
2	2" PIPING
3	3" PIPING
4	4" PIPING
5	5" PIPING
6	6" PIPING
7	8" PIPING
8	10" PIPING
9	12" PIPING
10	14" PIPING
11	16" PIPING
12	18" PIPING
13	20" PIPING
14	24" PIPING
15	30" PIPING
16	36" PIPING
17	42" PIPING
18	48" PIPING
19	54" PIPING
20	60" PIPING

SPRINKLERS/NOZZLES

SPRINKLER/NOZZLE	DESCRIPTION
1	1" PIPING
2	2" PIPING
3	3" PIPING
4	4" PIPING
5	5" PIPING
6	6" PIPING
7	8" PIPING
8	10" PIPING
9	12" PIPING
10	14" PIPING
11	16" PIPING
12	18" PIPING
13	20" PIPING
14	24" PIPING
15	30" PIPING
16	36" PIPING
17	42" PIPING
18	48" PIPING
19	54" PIPING
20	60" PIPING

CONTRACT RESPONSIBILITIES

CLIENT: []

DESIGNER: []

CONTRACTOR: []

REVISIONS

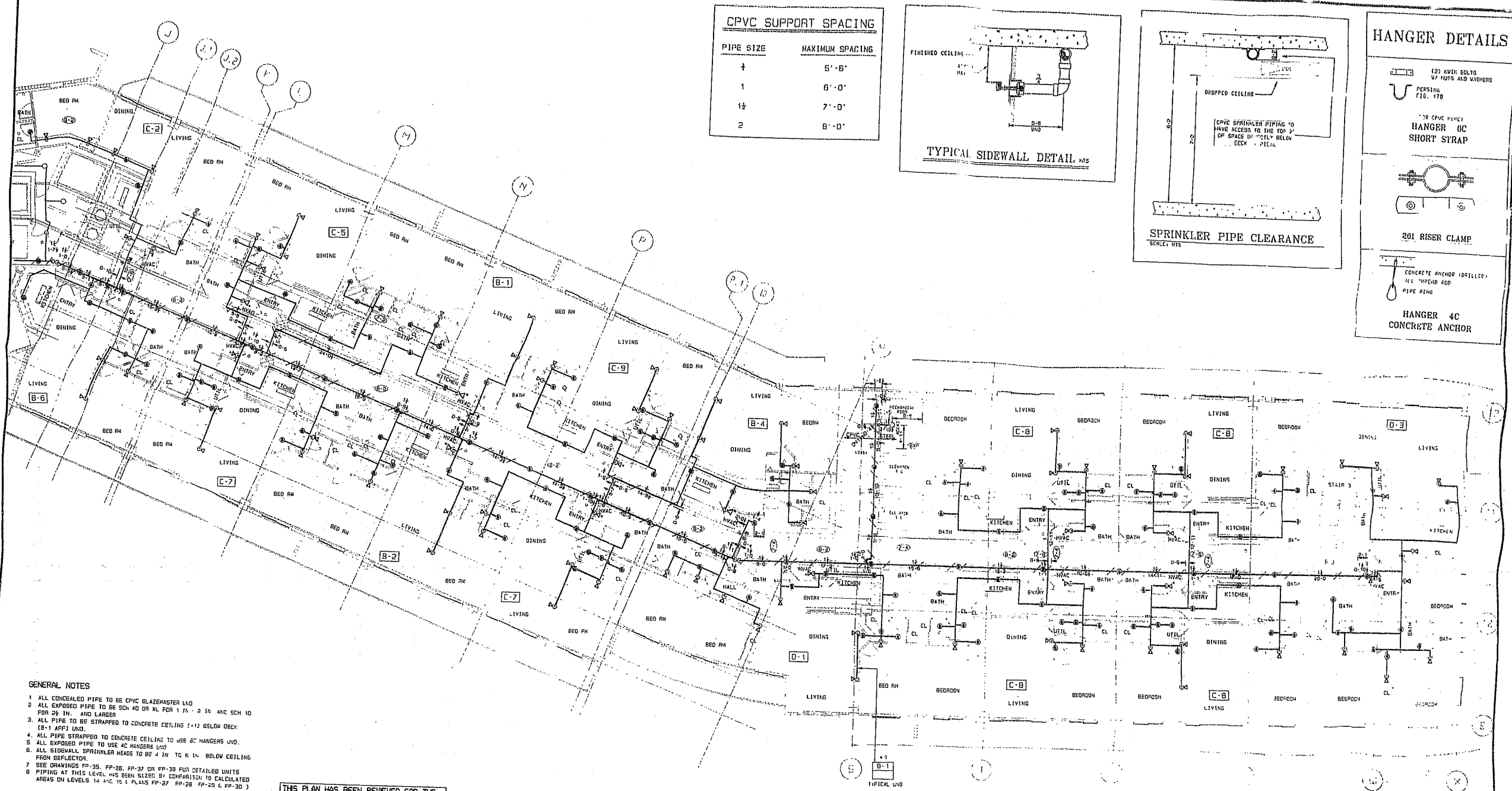
NO.	DATE	DESCRIPTION
1	10/10/00	1" PIPING
2	10/10/00	2" PIPING
3	10/10/00	3" PIPING
4	10/10/00	4" PIPING
5	10/10/00	5" PIPING
6	10/10/00	6" PIPING
7	10/10/00	8" PIPING
8	10/10/00	10" PIPING
9	10/10/00	12" PIPING
10	10/10/00	14" PIPING
11	10/10/00	16" PIPING
12	10/10/00	18" PIPING
13	10/10/00	20" PIPING
14	10/10/00	24" PIPING
15	10/10/00	30" PIPING
16	10/10/00	36" PIPING
17	10/10/00	42" PIPING
18	10/10/00	48" PIPING
19	10/10/00	54" PIPING
20	10/10/00	60" PIPING

APPROVALS

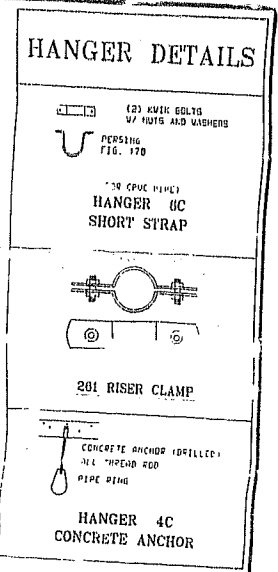
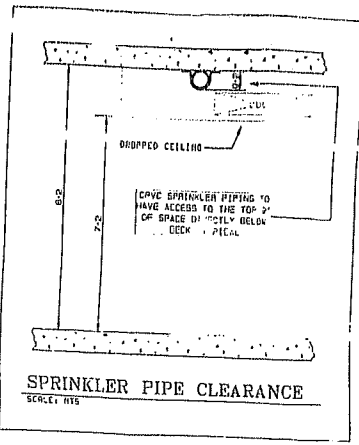
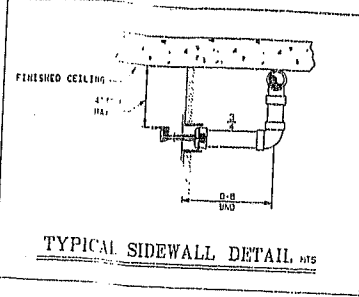
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DESIGNER: []

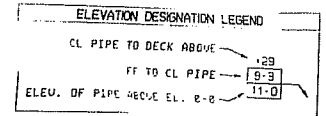
CONTRACTOR: []



CPVC SUPPORT SPACING	
PIPE SIZE	MAXIMUM SPACING
1/2	5'-6"
1	6'-0"
1 1/2	7'-0"
2	8'-0"



- GENERAL NOTES**
1. ALL CONCEALED PIPE TO BE CPVC GLAZEMASTER L40.
 2. ALL EXPOSED PIPE TO BE SCH 40 OR XL FOR 1/2, 3/4, 1, 1 1/2, 2, 3, 4, 6, 8, 10, 12, 14, 16, 18, 20, 24, 30, 36, 42, 48, 60, 72, 84, 96, 108, 120, 144, 168, 192, 216, 240, 288, 324, 360, 408, 456, 504, 576, 648, 720, 800, 864, 936, 1008, 1080, 1152, 1224, 1296, 1368, 1440, 1512, 1584, 1656, 1728, 1800, 1872, 1944, 2016, 2088, 2160, 2232, 2304, 2376, 2448, 2520, 2592, 2664, 2736, 2808, 2880, 2952, 3024, 3096, 3168, 3240, 3312, 3384, 3456, 3528, 3600, 3672, 3744, 3816, 3888, 3960, 4032, 4104, 4176, 4248, 4320, 4392, 4464, 4536, 4608, 4680, 4752, 4824, 4896, 4968, 5040, 5112, 5184, 5256, 5328, 5400, 5472, 5544, 5616, 5688, 5760, 5832, 5904, 5976, 6048, 6120, 6192, 6264, 6336, 6408, 6480, 6552, 6624, 6696, 6768, 6840, 6912, 6984, 7056, 7128, 7200, 7272, 7344, 7416, 7488, 7560, 7632, 7704, 7776, 7848, 7920, 7992, 8064, 8136, 8208, 8280, 8352, 8424, 8496, 8568, 8640, 8712, 8784, 8856, 8928, 9000, 9072, 9144, 9216, 9288, 9360, 9432, 9504, 9576, 9648, 9720, 9792, 9864, 9936, 10008, 10080, 10152, 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THIS PLAN HAS BEEN REVIEWED FOR THE APPEARANCE OF ITS HEAD LOCATIONS AND FOR CONCEALMENT OF PIPE WITHIN THE CEILINGS AS REPRESENTED, IT IS APPROVED FOR INSTALLATION AS SHOWN.

OWNER _____ DATE _____

ARCHITECT _____ DATE _____

GENERAL CONT. _____ DATE _____

PLAN VIEW / MID-RISE / EVEN FLOORS 8 THRU 14

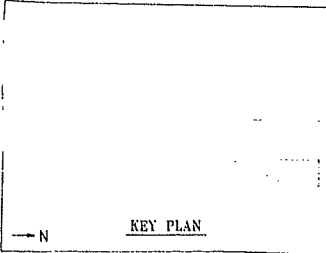
SCALE: 1/8" = 1'-0"

LEVEL 8 - FLOOR ELEV 80'-2"

LEVEL 10 - FLOOR ELEV 78'-3"

LEVEL 12 - FLOOR ELEV 55'-11"

LEVEL 14 - FLOOR ELEV 113'-7"



IMPORTANT

IN ORDERING, QUOTE THE FOLLOWING: PROJECT NO., DRAWING NO., DATE, AND NAME OF THE ENGINEER. THE ENGINEER'S SEAL AND SIGNATURE ARE REQUIRED FOR ALL DRAWINGS. THE ENGINEER IS RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF THE SYSTEM. THE USER IS RESPONSIBLE FOR THE MAINTENANCE AND REPAIR OF THE SYSTEM. THE ENGINEER'S OFFICE IS NOT RESPONSIBLE FOR THE CONSTRUCTION OF THE SYSTEM.

CONTRACT RESPONSIBILITIES

ITEM	RESP.
1. CITY CODES	ENGINEER
2. CITY ORDINANCES	ENGINEER
3. CITY ORDINANCES	ENGINEER
4. CITY ORDINANCES	ENGINEER
5. CITY ORDINANCES	ENGINEER
6. CITY ORDINANCES	ENGINEER
7. CITY ORDINANCES	ENGINEER
8. CITY ORDINANCES	ENGINEER
9. CITY ORDINANCES	ENGINEER
10. CITY ORDINANCES	ENGINEER

SYMBOLS

SPRINKLER	NOZZLE
VALVE	DRIP
WATER	WATER
WATER	WATER
WATER	WATER
WATER	WATER
WATER	WATER
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WATER	WATER
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WATER	WATER

SPRINKLERS/NOZZLES

NO.	TYPE	SIZE	SPR.	NO.	TYPE	SIZE	SPR.
1	UPRIGHT	1/2	1/2	15	UPRIGHT	1/2	1/2
2	UPRIGHT	1/2	1/2	16	UPRIGHT	1/2	1/2
3	UPRIGHT	1/2	1/2	17	UPRIGHT	1/2	1/2
4	UPRIGHT	1/2	1/2	18	UPRIGHT	1/2	1/2
5	UPRIGHT	1/2	1/2	19	UPRIGHT	1/2	1/2
6	UPRIGHT	1/2	1/2	20	UPRIGHT	1/2	1/2
7	UPRIGHT	1/2	1/2	21	UPRIGHT	1/2	1/2
8	UPRIGHT	1/2	1/2	22	UPRIGHT	1/2	1/2
9	UPRIGHT	1/2	1/2	23	UPRIGHT	1/2	1/2
10	UPRIGHT	1/2	1/2	24	UPRIGHT	1/2	1/2

ABBREVIATIONS

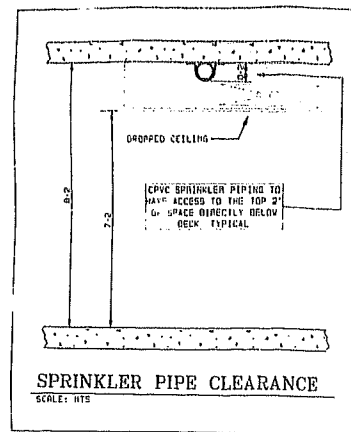
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APPROVALS

DATE	SIGNATURE
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REVISIONS

NO.	DESCRIPTION
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2	



THIS PLAN HAS BEEN REVIEWED FOR THE
APPEARANCE OF ITS HEAD LOCATIONS
AND FOR CONCEALMENT OF PIPE WITHIN
THE CEILINGS AS REPRESENTED, IT IS
APPROVED FOR INSTALLATION AS SHOWN.

CWNER _____ DATE _____

ARCHITECT _____ DATE _____

GENERAL COS. DATE

GENERAL NOTES

1. ALL CONCEALED PIPE TO BE CPVC BLACKMASTER UNQ.
2. ALL EXPOSED PIPE TO BE SCH 40 BLX FOR 1" - 2" IN. AND SCH 10 FOR 2 1/2" IN. AND LARGER.
3. ALL PIPE TO BE STRAPPED TO CONCRETE CEILING (+1) BELOW CECK (10-1 AFF) UNQ.
4. ALL PIPE STRAPPED TO CONCRETE CEILING TO USE 8C HANGERS UNQ.
5. ALL EXPOSED PIPE TO USE 4C HANGERS UNQ.
6. ALL SIDEWALL SPRINKLER HEADS TO BE 4" IN 6" IN BELOW CEILING FROM DEFLECTOR.
7. SEE DRAWINGS PP-35, PP-36, PP-37 OR PP-38 FOR DETAILED VIEWS.
8. PIPING IN THIS AREA BEING SIZED BY COMPARISON TO CALCULATED AREAS ON LEVELS 14 AND 15 (PLANS PP-27, PP-28 & PP-30)

HANGER DETAILS


 (D) NUTS BOLTS
 W/ NUTS AND WASHERS

 PERSHING
 FIG. 170

IFB CASE, PAGE 1
HANGER GC
SHORT STRAP



204 RISER CLAIM

CONCRETE ANCHOR BILLED:
ALL WRECK FOR
FIRE RING

HANGER 4C
CONCRETE ANCHOR

PIPE SIZE	MAXIMUM SPACING
3	5'-6"
4	6'-0"
6	7'-0"
8	8'-0"

PLAN VIEW / MID-RISE / ODD FLOORS 9 THRU 15

SCALE, 1" = 1'-0"

LEVEL 9 - FLOOR ELEV.	89'-5"
LEVEL 11 - FLOOR ELEV.	87'-1"
LEVEL 13 - FLOOR ELEV.	104'-9"
LEVEL 15 - FLOOR ELEV.	122'-5"

-ALL STEEL PIPE LENGTHS ARE CUT LENGTHS
-ALL CPVC PIPE LENGTHS ARE CENTER TO CENTER LENGTHS

ELEVATION DESIGNATION LEGEND

CL PIPE 10 FEET ABOVE —————

EE TO 3 PAGE -- 5

1

KEY PLAN

STEVEN FELLER, P.E. :INC
CONSULTING ENGINEERS
2781 U. OAKLAND PARK BLVD. SUITE 310
OAKLAND PARK, FL 33111

Grinnell Fire Protection
EXECUTIVE OFFICES - HOUSTON, TEXAS, U.S.A.

SYSTEM INFO		
System	System	...
NTFS / 2	...	...
0h	...	...

THE GRAND FLAMINGO
1500 BAY ROAD
JACK BEACH, FLORIDA

1/8" x 1 - 0"

[illegible]

	ITEM	RESP.	C
UNDERGROUND	CITY CONNECTION		
UNDER	UNDERGROUND		
CONNECTION	EXCAVATIONS		
CONNECTION	BACKFILL		
CONNECTION	WIRING		
CONNECTION	PAINTING		

[illegible]

MODEL	MODEL	STYLE	HT	K	OFFICE	SEMI	SPRINKLER	SEQUENCE	TIME
CENTRAL	GR	UPRIGHT	1/2	6.6	1/2"	150	QUICK	FAST	1/2
CENTRAL	ESLO	OH UPRIGHT	3/4	14.5	7"	155	STANDARD	FAST	1/2
CENTRAL	LP	PENDENT	1/2	3.0	3/8"	155	PAST RESP	FAST	1/2
CENTRAL	LP	STOGEALL	1/2	3.5	3/8"	155	PAST RESP	FAST	1/2
CENTRAL	GR	STOGEALL	1/2	6.1	1/2"	155	PAST RESP	FAST	1/2
CENTRAL	LP	PENDENT	1/2	3.0	3/8"	155	PAST RESP	STANDARD	1/2
CENTRAL	GR	STOGEALL	1/2	6.2	1/2"	155	QUICK	FAST	1/2
CENTRAL	GR-BR	PENDENT	1/2	6.6	1/2"	155	QUICK	QUICK	1/2

[illegible][illegible]

1. NAME JOHN J. GILBERT
 2. DATE 1/10/68
 3. TIME 10:00
 4. LOCATION 1000
 5. REMARKS 1000
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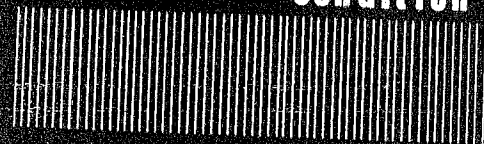
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LASON SYSTEM'S INC. S.E.

6934 N.W. 12 STREET, MIAMI, FLORIDA 33126
305-477-9149 • 800-287-4199 • FAX 305-477-7576

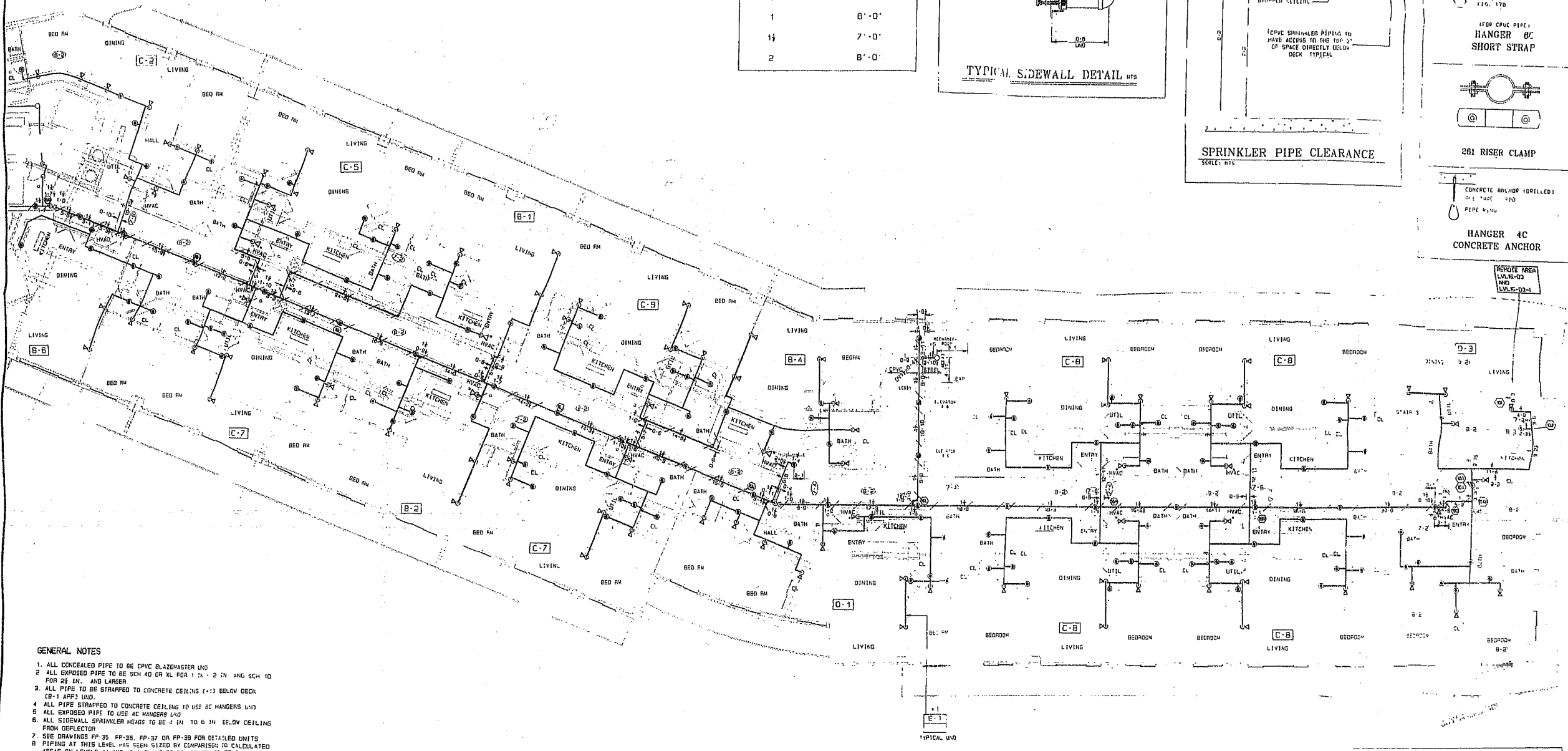
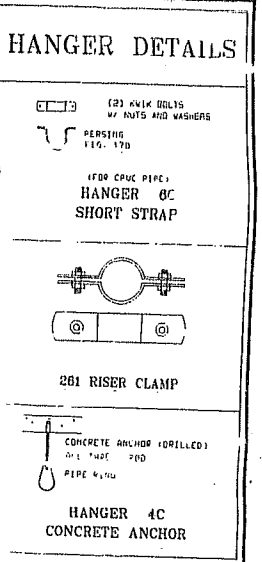
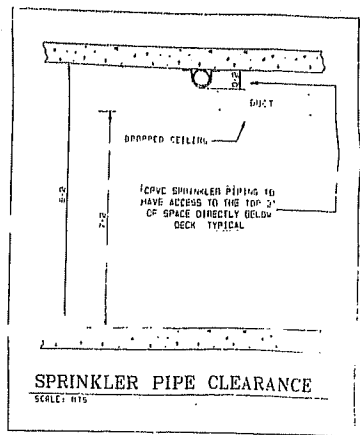
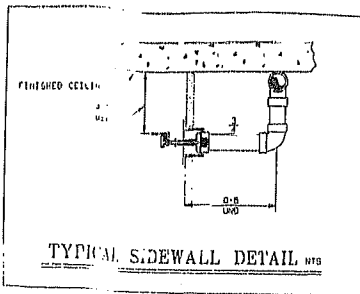
PREVIOUS DOCUMENT

IS
a photocopy in poor
condition



FC 017

CPVC SUPPORT SPACING	
PIPE SIZE	MAXIMUM SPACING
1/2"	5'-0"
3/4"	6'-0"
1"	7'-0"
1 1/2"	8'-0"



GENERAL NOTES

1. ALL CONCEALED PIPE TO BE CPVC GLAZEMASTER UNO
2. ALL EXPOSED PIPE TO BE SCH 40 OR XL FOR 1/2" - 2" IN. AND SCH 10 FOR 2 1/2" IN. AND LARGER
3. ALL PIPE TO BE STRAPPED TO CONCRETE CEILING (+1) BELOW DECK
4. ALL PIPE STRAPPED TO CONCRETE CEILING TO USE 8C HANGERS UNO
5. ALL EXPOSED PIPE TO USE 4C HANGERS UNO
6. ALL SIDEWALL SPRINKLER HEADS TO BE 4" IN. TO 6" IN. BELOW CEILING FROM DEFLECTOR
7. SEE DRAWINGS PP-35, PP-36, PP-37 OR PP-38 FOR DETAILED UNITS
8. PIPING AT THIS LEVEL HAS BEEN SIZED BY COMPARISON TO CALCULATED AREAS ON LEVELS 14 AND 15. PLANS PP-27, PP-28, PP-29 & PP-30

ELEVATION DESIGNATION LEGEND

TO DECK ABOVE: +20
 TO FLOOR PIPE: +9.3
 ELEV. OF PIPE: +9.0

-ALL STEEL PIPE LENGTHS ARE CUT LENGTHS
 -ALL CPVC PIPE LENGTHS ARE CENTER TO CENTER LENGTHS

THIS PLAN HAS BEEN REVIEWED FOR THE APPEARANCE OF ITS HEAD LOCATIONS AND FOR CONCEALMENT OF PIPE WITHIN THE CEILING AS REPRESENTED. IT IS APPROVED FOR INSTALLATION AS SHOWN.

OWNER _____ DATE _____
 ARCHITECT _____ DATE _____
 GENERAL CONT. _____ DATE _____

PLAN VIEW / MID-RISE / ODD FLOORS 9 THRU 15

SCALE: 1/8" = 1'-0"
 LEVEL 9 - FLOOR ELEV. 89'-5"
 LEVEL 11 - FLOOR ELEV. 97'-1"
 LEVEL 13 - FLOOR ELEV. 101'-9"
 LEVEL 15 - FLOOR ELEV. 109'-5"

KEY PLAN

STEVEN FELLER, P.E., INC.
 CONSULTING ENGINEERS
 2701 N. OAKLAND PARK BLVD., SUITE 310
 OAKLAND PARK, FL 33211 813-433-7488

Brinnell Fire Protection
 LOCAL OFFICE: 2702 WEST 10TH STREET, MIAMI, FL 33141 305-441-8877

THE GRAND FLAMINGO
 800 BAY ROAD
 MIAMI BEACH, FLORIDA

SYSTEM INFO

TYPE	QUANTITY	REMARKS
1" CPVC	150	
3/4" CPVC	100	
1/2" CPVC	50	

CONTRACT RESPONSIBILITIES

DESIGN: STEVEN FELLER, P.E., INC.
 CHECKED: [Signature]
 DATE: 7-14-03

SYMBOLS

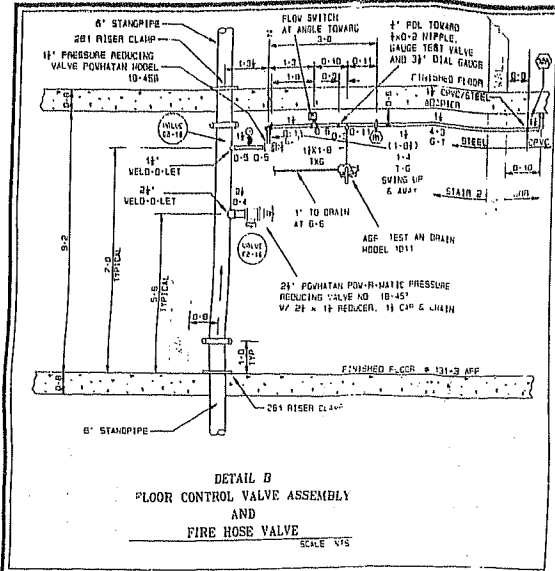
SPRINKLER: [Symbol] 1" 150
 NOZZLE: [Symbol] 1/2" 150

ABBREVIATIONS

UNO: UNO
 8C: 8C
 4C: 4C

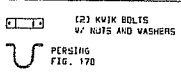
REVISIONS

NO.	DATE	DESCRIPTION
1	7-14-03	ISSUED FOR PERMIT

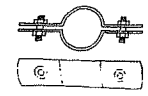


- GENERAL NOTES**
1. ALL CONCEALED PIPE TO BE CPVC BLAZEMASTER UNO
 2. ALL EXPOSED PIPE TO BE SCH 40 OR XL FOR 1 IN. - 2 IN. AND SCH 10 FOR 2 1/2 IN. AND LARGER
 3. ALL PIPE TO BE STRAPPED TO CONCRETE CEILING (+1) BELOW DECK (+1) AFF LEVEL 10-30.2, (+1) AFF LEVEL 32) UNO
 4. ALL PIPE STRAPPED TO CONCRETE CEILING TO USE 6C HANGERS UNO
 5. ALL EXPOSED PIPE TO USE 4C HANGERS UNO
 6. ALL SIDEWALL SPRINKLER HEADS TO BE 4 IN. TO 6 IN. BELOW CEILING FROM DEFLECTOR
 7. SEE DRAWINGS PP-35, PP-36, PP-37 OR PP-38 FOR DETAILED UNITS

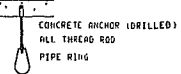
HANGER DETAILS



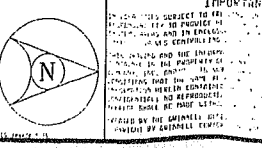
(FOR CPVC PIPE)
**HANGER 6C
SHORT STRAP**



201 RISER CLAMP



**HANGER 4C
CONCRETE ANCHOR**



IMPORTANT:
DO NOT CUT OR REMOVE ANY PART OF THIS SHEET WITHOUT THE WRITTEN PERMISSION OF THE ENGINEER OF RECORD.

CONTRACT RESPONSIBILITIES

ITEM	RESPONSIBILITY
1. DESIGN	STEVEN FELLER, P.E. INC.
2. CONSTRUCTION	THE GRAND FLAMINGO
3. INSPECTION	THE GRAND FLAMINGO
4. MAINTENANCE	THE GRAND FLAMINGO

SYMBOLS

SYMBOL	DESCRIPTION
(Symbol)	6C HANGER
(Symbol)	4C HANGER
(Symbol)	201 RISER CLAMP
(Symbol)	CONCRETE ANCHOR

STEVEN FELLER, P.E. INC.
CONSULTING ENGINEERS
2701 W. OAKLAND PARK BLVD., SUITE 310
OAKLAND PARK, FL 33111 (305) 730-7400

SPRINKLERS/NOZZLES

MODEL	TYPE	SIZE	TEMP	FINISH	REMARKS
CENTRAL 60	UPRIGHT	1 1/2	5.4	1/2"	100 QUICK WHITE
CENTRAL 60	UPRIGHT	1 1/2	5.4	1/2"	100 SYNDROME WHITE
CENTRAL 60	UPRIGHT	1 1/2	5.4	1/2"	100 FAST RESP WHITE
CENTRAL 60	UPRIGHT	1 1/2	5.4	1/2"	100 FAST RESP WHITE
CENTRAL 60	UPRIGHT	1 1/2	5.4	1/2"	100 FAST RESP WHITE
CENTRAL 60	UPRIGHT	1 1/2	5.4	1/2"	100 FAST RESP WHITE
CENTRAL 60	UPRIGHT	1 1/2	5.4	1/2"	100 FAST RESP WHITE
CENTRAL 60	UPRIGHT	1 1/2	5.4	1/2"	100 FAST RESP WHITE
CENTRAL 60	UPRIGHT	1 1/2	5.4	1/2"	100 FAST RESP WHITE
CENTRAL 60	UPRIGHT	1 1/2	5.4	1/2"	100 FAST RESP WHITE

ABBREVIATIONS

ABBREVIATION	DESCRIPTION
CL	CLOSET
ENTR	ENTRY
KITCH	KITCHEN
BATH	BATHROOM
LIVING	LIVING ROOM
DINING	DINING ROOM
BED RM	BEDROOM
UTL	UTILITY
HALL	HALLWAY
CL	CLOSET
ENTR	ENTRY
KITCH	KITCHEN
BATH	BATHROOM
LIVING	LIVING ROOM
DINING	DINING ROOM
BED RM	BEDROOM
UTL	UTILITY
HALL	HALLWAY

REVISIONS

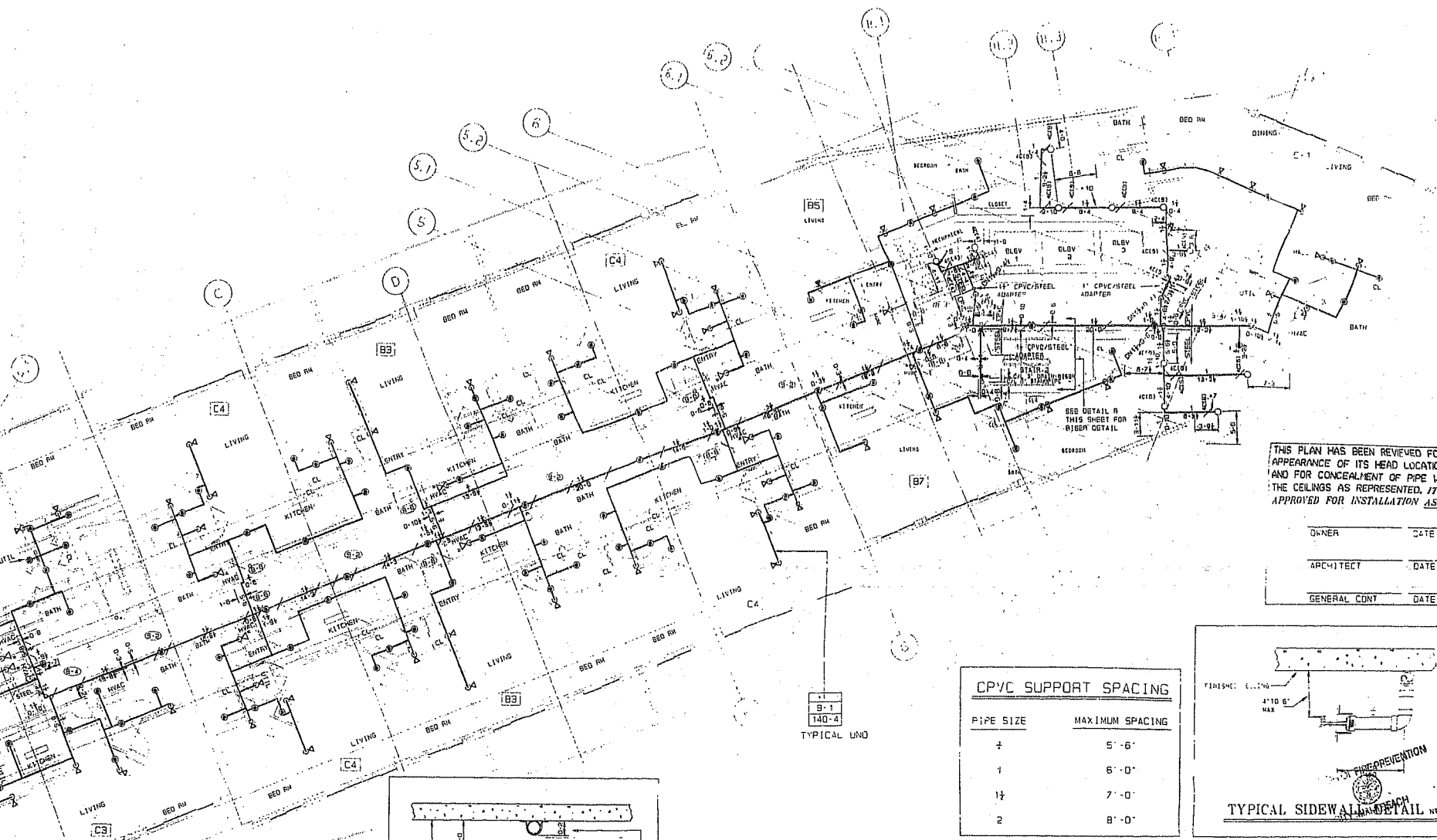
NO.	DATE	DESCRIPTION
1	SEP 12, 2000	ISSUED FOR CONSTRUCTION

THE GRAND FLAMINGO
1500 BAY ROAD
MIAMI BEACH, FLORIDA

LEVEL 16

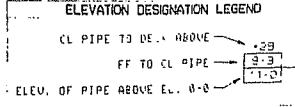
DATE: 7-28-00

PP-31



PLAN VIEW / MID-RISE / LEVEL 16

SCALE: 1/4" = 1'-0"
LEVEL 16 - FLOOR ELEV. 131.3



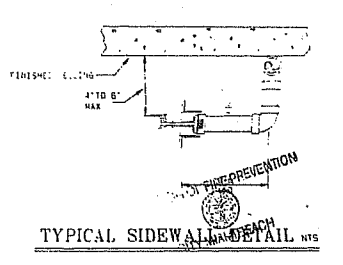
-ALL STEEL PIPE LENGTHS ARE CUT LENGTHS
-ALL CPVC PIPE LENGTHS ARE CENTER TO CENTER LENGTHS

SPRINKLER PIPE CLEARANCE

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

CPVC SUPPORT SPACING

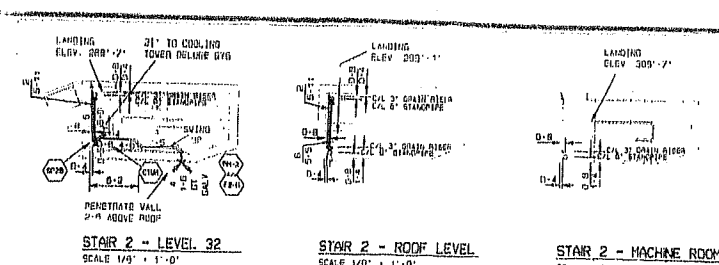
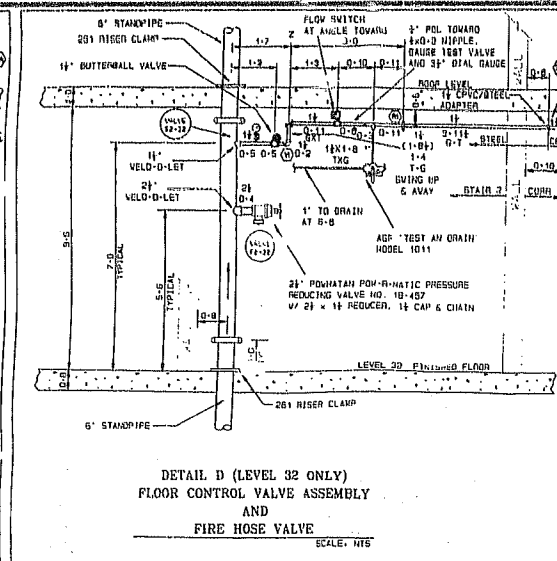
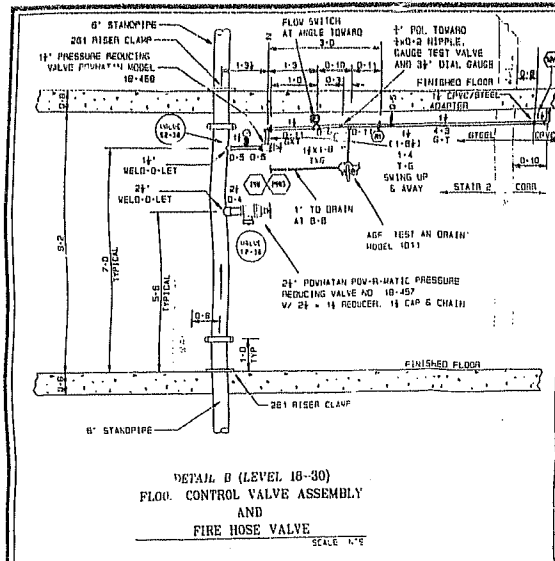
PIPE SIZE	MAXIMUM SPACING
1/2"	5'-6"
1"	6'-0"
1 1/2"	7'-0"
2"	8'-0"



THIS PLAN HAS BEEN REVIEWED FOR THE APPEARANCE OF ITS HEAD LOCATIONS AND FOR CONCEALMENT OF PIPE WITHIN THE CEILING AS REPRESENTED. IT IS APPROVED FOR INSTALLATION AS SHOWN.

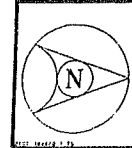
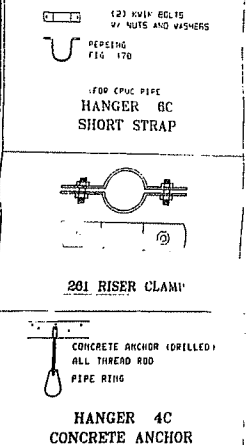
OWNER: _____ DATE: _____
ARCHITECT: _____ DATE: _____
GENERAL CONT: _____ DATE: _____

KEY PLAN



- GENERAL NOTES**
1. ALL CONCEALED PIPE TO BE CPVC GLAZEMASTER UNO.
 2. ALL EXPOSED PIPE TO BE SCH 40 OR XL FOR 2 IN. AND SCH 10 FOR 2 1/2 IN. AND LARGER.
 3. ALL PIPE TO BE STRAPPED TO CONCRETE CEILING (111) BELOW DECK (9-1 AFF LEVEL 18-30) (9-5 AFF LEVEL 32) UNO.
 4. ALL PIPE STRAPPED TO CONCRETE CEILING TO USE 6 IN. HANGERS UNO.
 5. ALL EXPOSED PIPE TO USE 4 IN. HANGERS UNO.
 6. ALL SIDEWALL SPRINKLER HEADS TO BE 4 IN. TO 6 IN. BELOW CEILING FROM DECK/CL.
 7. SEE DRAWINGS PP 35, 36, 37, 38, 39, 40, 41, 42 FOR DETAILED UNITS.

HANGER DETAILS



IMPORTANT

IN LOCATIONS SUBJECT TO FLOODING, RESPONSIBILITY TO PROTECT FROM FLOODING SHALL BE IN THE HANDS OF THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE PROPERTY OF THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE PROPERTY OF THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE PROPERTY OF THE OWNER.

CONTRACT RESPONSIBILITIES

OWNER: THE GRAND FLAMINGO
DESIGN: THE BUREAU OF ARCHITECTURE
CONSTRUCTION: THE BUREAU OF ARCHITECTURE

SYMBOLS

SPRINKLER: 1/2" NPT
PIPE: 1/2" NPT
VALVE: 1/2" NPT

STEVEN FELLER, P.E. INC.
2701 W. OAKLAND PARK BLVD., SUITE 310
OAKLAND PARK, FL 33111 954-728-7400

SPRINKLER PIPE CLEARANCE
SCALE: 1/2" = 1'-0"

PLAN VIEW / MID-RISE / EVEN FLOORS 18 THRU 32

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

LEVEL 18 - FLOOR ELEV. 150'-11"
LEVEL 20 - FLOOR ELEV. 170'-3"
LEVEL 22 - FLOOR ELEV. 190'-3"
LEVEL 24 - FLOOR ELEV. 209'-11"
LEVEL 26 - FLOOR ELEV. 229'-7"
LEVEL 28 - FLOOR ELEV. 249'-3"
LEVEL 30 - FLOOR ELEV. 269'-11"
LEVEL 32 - FLOOR ELEV. 289'-3"
POOF - FLOOR ELEV. 299'-1"

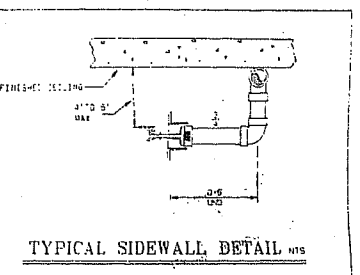
ELEVATION DESIGNATION LEGEND

CL PIPE TO DECK ABOVE
FF TO CL PIPE
ELEV. OF PIPE ABOVE EL. 1'-0"

-ALL STEEL PIPE LENGTHS ARE CUT LENGTHS
-ALL CPVC PIPE LENGTHS ARE CENTER TO CENTER LENGTHS

CPVC SUPPORT SPACING

PIPE SIZE	MAXIMUM SPACING
1/2"	5'-6"
1"	6'-0"
1 1/2"	7'-0"
2"	8'-0"



THIS PLAN HAS BEEN REVIEWED FOR THE APPEARANCE OF ITS HEAD LOCATIONS AND FOR CONCEALMENT OF PIPE WITHIN THE CEILINGS AS REPRESENTED. IT IS APPROVED FOR INSTALLATION AS SHOWN.

OWNER: _____ DATE: _____
ARCHITECT: _____ DATE: _____
GENERAL CONT: _____ DATE: _____

KEY PLAN

THE GRAND FLAMINGO
1500 BAY ROAD
MIAMI BEACH, FLORIDA

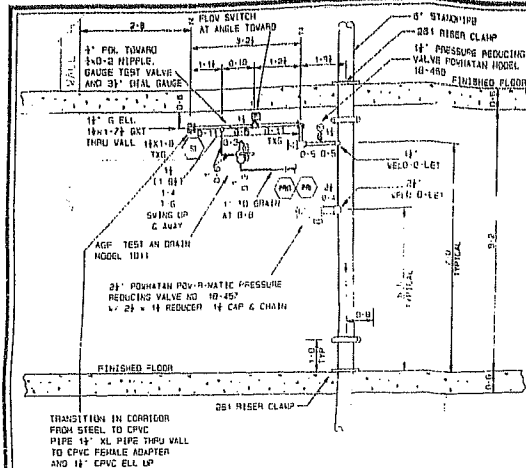
LEVEL 18-32 EVEN - SOUTH

REVISIONS

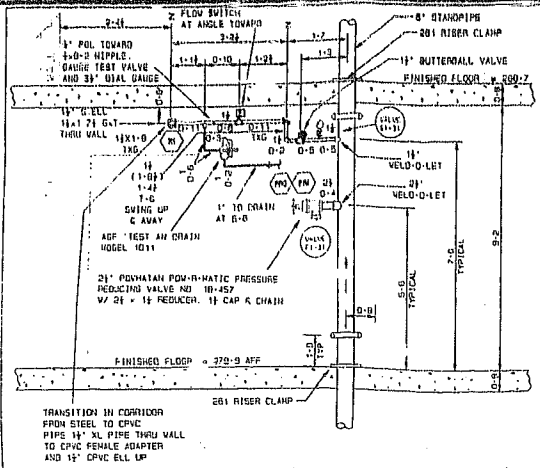
NO.	DATE	DESCRIPTION
1	SEP 12 2000	ISSUED FOR CONSTRUCTION

ABBREVIATIONS

SPRINKLER: 1/2" NPT
PIPE: 1/2" NPT
VALVE: 1/2" NPT



DETAIL A (LEVEL 19-29)
FLOOR CONTROL VALVE ASSEMBLY
AND
FIRE HOSE VALVE
SCALE: NTS

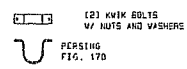


DETAIL C (LEVEL 31 ONLY)
FLOOR CONTROL VALVE ASSEMBLY
AND
FIRE HOSE VALVE
SCALE: NTS

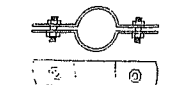
GENERAL NOTES

1. ALL CONCEALED PIPE TO BE CPVC BLAZEMASTER UND
2. ALL EXPOSED PIPE TO BE SCH 40 OR XL FOR 1" IN. AND SCH 10 FOR 2" IN. AND LARGER
3. ALL PIPE TO BE STRAPPED TO CONCRETE CEILING (1" BELOW DECK (5'-1" AFF LEVEL 19-29) (5'-5" AFF LEVEL 31) UND
4. ALL PIPE STRAPPED TO CONCRETE CEILING TO USE EC HANGERS UND
5. ALL EXPOSED PIPE TO USE EC HANGERS UND
6. ALL SIDEWALL SPRINKLER HEADS TO BE 4" IN. TO 6" IN. BELOW CEILING FROM CEILING
7. SEE DRAWINGS PP-35, PP-36, PP-37, OR PP-38 FOR DETAILED UNITS

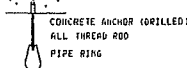
HANGER DETAILS



(FOR CPVC PIPE)
HANGER 6C
SHORT STRAP



201 RISER CLAMP



HANGER 4C
CONCRETE ANCHOR



IMPORTANT
IN LOCATING SUBJECT TO PREPARE CONTRACT, THE ENGINEER HAS CONDUCTED VISUAL SURVEY OF THE PROJECT AND HAS FOUND THE EXISTING CONDITIONS TO BE AS SHOWN ON THE DRAWINGS. THE ENGINEER HAS NOT CONDUCTED A DETAILED SURVEY OF THE PROJECT AND HAS NOT OBSERVED THE EXISTING CONDITIONS. THE ENGINEER HAS NOT CONDUCTED A DETAILED SURVEY OF THE PROJECT AND HAS NOT OBSERVED THE EXISTING CONDITIONS. THE ENGINEER HAS NOT CONDUCTED A DETAILED SURVEY OF THE PROJECT AND HAS NOT OBSERVED THE EXISTING CONDITIONS.

CONTRACT RESPONSIBILITIES
OWNER: THE GRAND FLAMINGO
DESIGNER: STEVEN FELLER, P.E. INC.
CONTRACT NO.: 27-427841-01
DATE: 7-26-00
PP-34

SYMBOLS
1. FIRE HOSE VALVE
2. FLOOR CONTROL VALVE
3. SPRINKLER HEAD
4. RISER CLAMP
5. HANGER
6. CONCRETE ANCHOR
7. PIPE
8. VALVE
9. FITTING
10. ELBOW
11. TEEL
12. CROSS
13. END
14. FLANGE
15. GASKET
16. BOLT
17. NUT
18. WASHER
19. LOCKWASHER
20. LOCKNUT
21. LOCKWASHER
22. LOCKNUT
23. LOCKWASHER
24. LOCKNUT
25. LOCKWASHER
26. LOCKNUT
27. LOCKWASHER
28. LOCKNUT
29. LOCKWASHER
30. LOCKNUT

SPRINKLERS/NOZZLES
1. STANDARD WHITE
2. FAST RESP WHITE
3. FAST RESP WHITE
4. FAST RESP WHITE
5. FAST RESP WHITE
6. FAST RESP WHITE
7. FAST RESP WHITE
8. FAST RESP WHITE
9. FAST RESP WHITE
10. FAST RESP WHITE
11. FAST RESP WHITE
12. FAST RESP WHITE
13. FAST RESP WHITE
14. FAST RESP WHITE
15. FAST RESP WHITE
16. FAST RESP WHITE
17. FAST RESP WHITE
18. FAST RESP WHITE
19. FAST RESP WHITE
20. FAST RESP WHITE

ABBREVIATIONS
1. CPVC
2. SCH 40
3. XL
4. UND
5. AFF
6. CL
7. ELEV
8. ELEV. OF PIPE ABOVE EL. 0-0
9. ELEV. OF PIPE ABOVE EL. 0-0
10. ELEV. OF PIPE ABOVE EL. 0-0
11. ELEV. OF PIPE ABOVE EL. 0-0
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18. ELEV. OF PIPE ABOVE EL. 0-0
19. ELEV. OF PIPE ABOVE EL. 0-0
20. ELEV. OF PIPE ABOVE EL. 0-0

NOTES
1. ALL STEEL PIPE LENGTHS ARE CUT LENGTHS
2. ALL CPVC PIPE LENGTHS ARE CENTER TO CENTER LENGTHS
3. ALL CPVC PIPE LENGTHS ARE CENTER TO CENTER LENGTHS
4. ALL CPVC PIPE LENGTHS ARE CENTER TO CENTER LENGTHS
5. ALL CPVC PIPE LENGTHS ARE CENTER TO CENTER LENGTHS
6. ALL CPVC PIPE LENGTHS ARE CENTER TO CENTER LENGTHS
7. ALL CPVC PIPE LENGTHS ARE CENTER TO CENTER LENGTHS
8. ALL CPVC PIPE LENGTHS ARE CENTER TO CENTER LENGTHS
9. ALL CPVC PIPE LENGTHS ARE CENTER TO CENTER LENGTHS
10. ALL CPVC PIPE LENGTHS ARE CENTER TO CENTER LENGTHS

STEVEN FELLER, P.E. INC.
CONSULTING ENGINEERS
2701 W. OAKLAND PARK BLVD., SUITE 310
OAKLAND PARK, FL 33111 854/733-7100

SPRINKLER PIPE CLEARANCE
SECRET NTS

PLAN VIEW / MID-RISE / ODD FLOORS 19 THRU 31

SCALE: 1/4" = 1'-0"
LEVEL 19 - FLOOR ELEV. 160-0
LEVEL 21 - FLOOR ELEV. 180-0
LEVEL 23 - FLOOR ELEV. 200-0
LEVEL 25 - FLOOR ELEV. 210-0
LEVEL 27 - FLOOR ELEV. 230-0
LEVEL 29 - FLOOR ELEV. 250-0
LEVEL 31 - FLOOR ELEV. 270-0

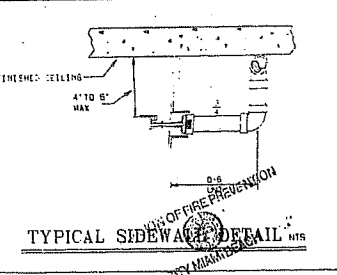
PIPE SIZE	MAXIMUM SPACING
1/2"	5'-6"
1"	6'-0"
1 1/2"	7'-0"
2"	8'-0"

ELEVATION DESIGNATION LEGEND
CL PIPE TO DECK ABOVE
FF TO CL PIPE
ELEV. OF PIPE ABOVE EL. 0-0

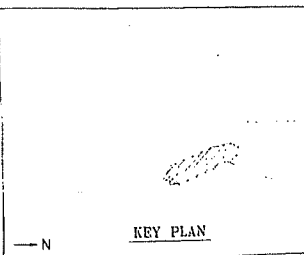
ALL STEEL PIPE LENGTHS ARE CUT LENGTHS
ALL CPVC PIPE LENGTHS ARE CENTER TO CENTER LENGTHS

THIS PLAN HAS BEEN REVIEWED FOR THE APPEARANCE OF ITS HEAD LOCATIONS AND FOR CONCEALMENT OF PIPE WITHIN THE CEILING AS REPRESENTED. IT IS APPROVED FOR INSTALLATION AS SHOWN.

OWNER _____ DATE _____
ARCHITECT _____ DATE _____
GENERAL CONT. _____ DATE _____



TYPICAL SIDEWALL DETAIL
SCALE: NTS



KEY PLAN

Grinnell Fire Protection		SYSTEM INFO		THE GRAND FLAMINGO	
EXECUTIVE OFFICE: HOUSTON, TEXAS, USA		1500 BAY ROAD		MIAMI BEACH, FLORIDA	
LOCAL OFFICE: 2700 WEST 81ST STREET, MIAMI, FL 33146 (305) 872-1000		PROJECT NO. 27-427841-01		DATE: 7-26-00	
APPROVALS		REVISIONS		REVISIONS	
DATE: 7-26-00 BY: [Signature] DATE: 7-26-00 BY: [Signature]		1. [Description] 2. [Description] 3. [Description]		1. [Description] 2. [Description] 3. [Description]	