

LEGAL DESCRIPTION:

LOTS 10 AND 11, OF BLOCK 15, OF "ISLAND VIEW SUBDIVISION", ACCORDING TO THE PLAT THEREOF RECORDED IN PLAT BOOK # AT PAGE 115 OF THE PUBLIC RECORDS OF DADE COUNTY, FLORIDA.

AND

LOTS 27 THRU 40, INCLUSIVE, OF BLOCK 15-A, OF "ISLAND VIEW ADDITION", ACCORDING TO THE PLAT THEREOF RECORDED IN PLAT BOOK 9 AT PAGE 144 OF THE PUBLIC RECORDS OF DADE COUNTY, FLORIDA, LOCATED IN THE CITY OF MIAMI BEACH, FLORIDA AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

LESS:

A PORTION OF BLOCK 15-A, OF "ISLAND VIEW ADDITION", ACCORDING TO THE PLAT THEREOF RECORDED IN PLAT BOOK 9 AT PAGE 144 OF THE PUBLIC RECORDS OF DADE COUNTY, FLORIDA, LOCATED IN THE CITY OF MIAMI BEACH, FLORIDA AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

1. A PORTION OF BLOCK 15-A, OF "ISLAND VIEW ADDITION", ACCORDING TO THE PLAT THEREOF RECORDED IN PLAT BOOK 9 AT PAGE 144 OF THE PUBLIC RECORDS OF DADE COUNTY, FLORIDA, LOCATED IN THE CITY OF MIAMI BEACH, FLORIDA AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

2. A PORTION OF BLOCK 15-A, OF "ISLAND VIEW ADDITION", ACCORDING TO THE PLAT THEREOF RECORDED IN PLAT BOOK 9 AT PAGE 144 OF THE PUBLIC RECORDS OF DADE COUNTY, FLORIDA, LOCATED IN THE CITY OF MIAMI BEACH, FLORIDA AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

ENGINEER'S NOTE:

1. THE WATER AND/OR SEWER SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE PUBLISHED AND CURRENT STANDARDS OF THE CITY OF MIAMI BEACH UTILITY DEPARTMENT AND UNDER THE INSPECTION OF THEIR PERSONNEL.
2. THE APPROXIMATE LOCATION OF ALL UTILITIES SHOWN HEREON WERE DETERMINED FROM "AS-BUILT" PLANS AND/OR FIELD LOCATION AND MUST BE VERIFIED.
3. CONTRACTOR TO VERIFY LOCATION, ELEVATION, MATERIAL AND CONDITION OF ALL EXISTING UTILITIES PRIOR TO THE START OF CONSTRUCTION. AFTER OBTAINING LOCATION FROM UNCLC, AND OTHER UTILITY COMPANIES, AND PRIOR TO THE START OF CONSTRUCTION, CONTRACTOR SHALL UNCOVER ALL KNOWN UNDERGROUND UTILITIES IN THE PATH OF THE WORK, WHETHER OR NOT THE UTILITIES ARE SHOWN ON THE PLANS, AND SHALL TAKE VERTICAL AND HORIZONTAL MEASUREMENTS OF THE LOCATIONS OF THESE UTILITIES, AND IF ANY UTILITIES ARE APPARENT, REPORT THE MEASUREMENTS TO THE ENGINEER-OF-RECORD.
4. CONTRACTOR TO CONTACT ENGINEER-OF-RECORD IF EXISTING UTILITIES ARE NOT AS SHOWN ON THE PLANS.
5. ALL LANDSCAPING AND IRRIGATION DISTURBED SHALL BE REPLACED WITH LIKE KIND.
6. CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE "TRENCH SHIELD ACT" AND ALL REQUIREMENTS OF O.S.H.A.
7. ALL VALVES ARE TO BE TIED TO TEES (UNLESS OTHERWISE NOTED).
8. ELEVATIONS REFER TO N.G.V.D. NATIONAL GEODETIC VERTICAL DATUM OF 1929.
9. STATIONS REFER TO CENTRILINE C/L OF PURDY AVENUE.

ENGINEER'S CERTIFICATION REQUIREMENTS:

1. THE WATER AND/OR SEWER LAYOUTS, PIPE COVER AND/OR INVERT ELEVATIONS AND DETERMINATION OF EASEMENT GEOMETRY SHALL BE PERFORMED BY A STATE OF FLORIDA LICENSED LAND SURVEYOR AT THE TIME OF INSTALLATION.
2. THE ENGINEER-OF-RECORD SHALL BE NOTIFIED A MINIMUM OF 24 HOURS IN ADVANCE BEFORE INSTALLATION, TESTING AND BACKFILLING OF ANY LINES.
3. THE ENGINEER-OF-RECORD SHALL BE PROVIDED WITH COPIES OF ALL PRESSURE TEST RESULTS, EMPIRICAL TEST RESULTS, BACTERIOLOGICAL TEST DATA AND DENSITY REPORTS AS THEY ARE ISSUED BY THE CORRESPONDING TESTING LABS.
4. SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER-OF-RECORD FOR REVIEW PRIOR TO THE PURCHASE OR INSTALLATION OF ANY SYSTEM COMPONENTS.
5. CONTRACTOR SHALL PROVIDE THE ENGINEER-OF-RECORD WITH A SET OF FINAL "AS-BUILT" DRAWINGS, SIGNED AND SEALED BY A STATE OF FLORIDA LICENSED LAND SURVEYOR, FOR ENGINEER'S REVIEW AND FILE.
6. CERTIFICATION OF COMPLETION IN ACCORDANCE WITH PLANS AND SPECIFICATIONS WILL "NOT" BE ISSUED BY THE ENGINEER-OF-RECORD TO THE APPROPRIATE PERMITTING AGENCIES UNTIL ALL THE REQ'D DESCRIBED HEREIN HAVE BEEN MET.

WATER AND SEWER SEPARATION NOTES:

1. SANITARY SEWERS AND FORCE MAINS SHOULD CROSS UNDER WATER MAINS WHEN EVER POSSIBLE. SANITARY SEWERS AND FORCE MAINS CROSSING WATER MAINS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18" HIGHER BETWEEN THE INVERT OF THE UPPER PIPE AND THE CROWN OF THE LOWER PIPE, UNLESS OTHERWISE SPECIFIED.
2. WHERE SANITARY SEWERS FORCE MAINS MUST CROSS A WATER MAIN WITH LESS THAN 18" MINIMUM VERTICAL DISTANCE BETWEEN THE CENTER AND THE WATER MAIN SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE (DIP) OR AN 8" OR 10" P.V.C. PRESSURE PIPE AT THE CROSSING. SUFFICIENT LENGTH MUST BE USED TO PROVIDE A MINIMUM SEPARATION OF 10 FEET BETWEEN ANY TWO JOINTS. ALL JOINTS ON THE WATER MAIN CROSSING MUST BE MECHANICALLY RESTRAINED. A MINIMUM VERTICAL CLEARANCE OF 6" HIGHER MUST BE MAINTAINED AT ALL CROSSINGS WITHIN THE CROSSING WIDTH OF 6" HIGHER.
3. ALL CROSSINGS SHALL BE ARRANGED SO THAT THE SEWER PIPE JOINTS AND WATER MAIN PIPE JOINTS ARE TO BE MAINTAINED FROM THE POINT OF CROSSING (PIPES CENTERED ON THE CROSSING).
4. WHERE IT IS NOT POSSIBLE TO MAINTAIN A VERTICAL DISTANCE OF 18" HIGHER VERTICAL CLEARANCE, THE NEW PIPE SHALL BE ARRANGED TO MEET THE CROSSING REQUIREMENTS ABOVE.
5. A MINIMUM 18" HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN ANY PIPE OF SEWER & WATER MAIN IN PARALLEL INSTALLATIONS UNLESS OTHERWISE SPECIFIED.
6. IN CASES WHERE IT IS NOT POSSIBLE TO MAINTAIN A 10 FOOT HORIZONTAL SEPARATION, THE WATER MAIN MUST BE LAID IN A SEPARATE TRENCH OR ON AN UNDISTURBED EARTH SHEET LOCATED ON ONE SIDE OF THE CENTER OF FORCE MAIN AS SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 18" INCHES ABOVE THE TOP OF THE SEWER.
7. WHERE IT IS NOT POSSIBLE TO MAINTAIN A VERTICAL DISTANCE OF 18" HIGHER IN PARALLEL INSTALLATIONS, THE WATER MAIN SHALL BE CONSTRUCTED OF D.I.P. AND THE SANITARY SEWER OR FORCE MAIN SHALL BE CONSTRUCTED OF D.I.P. OR AN 8" OR 10" P.V.C. PRESSURE PIPE WITH A MINIMUM VERTICAL DISTANCE OF 6" HIGHER. THE WATER MAIN SHOULD ALWAYS BE ABOVE THE SEWER. JOINTS ON THE WATER MAIN SHALL BE LOCATED AS FAR APART AS POSSIBLE FROM JOINTS ON THE SEWER OR FORCE MAIN (STAGGERED JOINTS).
8. ALL DIP SHALL BE CLASS 50 OR HIGHER. ADEQUATE PROTECTIVE MEASURES AGAINST CORROSION SHALL BE USED AS DETERMINED BY THE DESIGN.
9. WHEN USING TYPE 20M-SDR-35 P.V.C. A 20 FOOT LENGTH OF DUCTILE IRON PIPE MAY BE USED AS A CASING PIPE IN LIEU OF THE ABOVE. SEAL BOTH ENDS WITH GROUT.

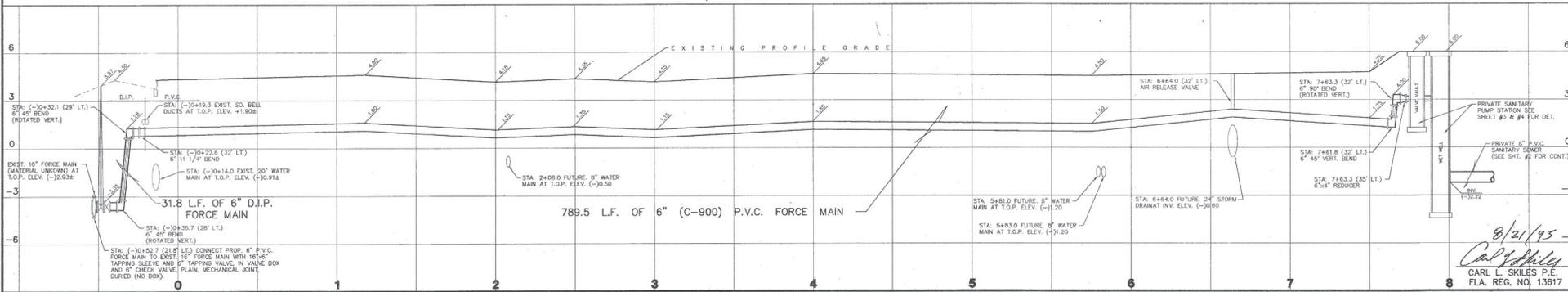
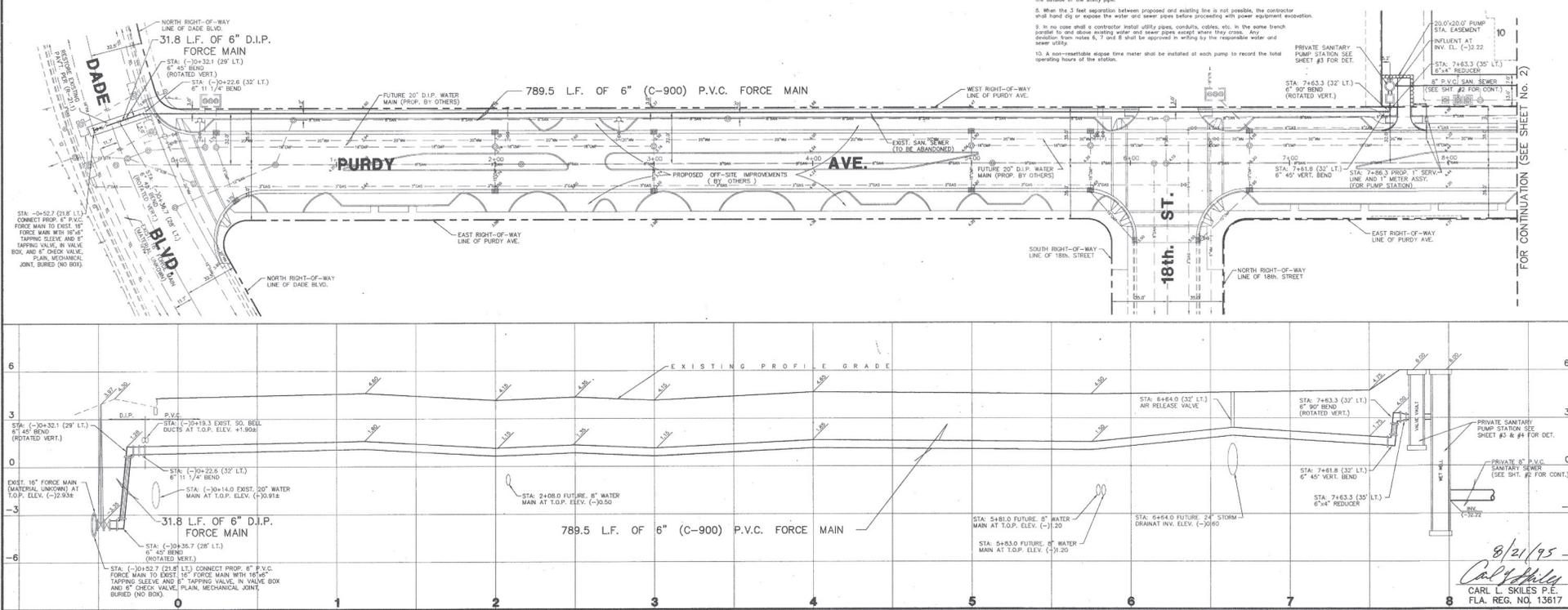
DEMN NOTES ON WATER-SEWER INSTALLATION:

1. Additional distance of 10 to 15' shall be maintained between water and sewer mains. When the 10 feet horizontal distance criteria cannot be met due to an existing underground utility, the sewer shall be constructed of ductile iron pipe with manhole joints.
2. A minimum distance of 18 inches shall be maintained between any water and sewer mains. The sewer shall be a ductile iron single 20 feet length centered on the crossing if the water main shall be less than 18 inches or the sewer is installed above the water main (regardless of separation).
3. In highly congested areas, where either water or sewer facilities are existing and the separation requirements cannot be met, special consideration may be given subject to a complete evaluation of all existing utilities.
4. The maximum allowable infiltration rate of gravity sanitary sewers constructed in a public utility protection area shall be 100 (50) gallons per inch pipe diameter per mile per day for residential use and 100 (50) gallons per inch pipe diameter per mile per day for non-residential land use.
5. Force main sewers constructed in a public utility protection area shall be either ductile iron or reinforced concrete pressure sewer pipe. The ductile iron pipe infiltration rate shall not be greater than the allowable leakage rate specified in American Water Works Association Standard (AWWAS) C900-82 at a test pressure of 100 pounds per square inch. The reinforced concrete pressure sanitary sewer force main infiltration rate shall not be greater than one-half (1/2) the allowable leakage rate specified in AWWAS C900-82 at a test pressure of 100 pounds per square inch.
6. The contractor shall verify nature, depth, character of existing underground utilities prior to start of construction.
7. All other public or private utility facilities shall be constructed at least 3 feet from any water and sewer pipe as measured from the outside ball of the water and sewer pipe to the outside of the utility pipe.
8. When the 3 feet separation between proposed and existing line is not possible, the contractor shall find and expose the water and sewer pipes existing and provide appropriate excavation.
9. In no case shall a contractor install utility pipes, conduits, cables, etc. in the same trench parallel to one above existing water and sewer pipes except where they cross. Any deviation from items 6, 7 and 8 shall be approved in writing by the responsible water and sewer utility.
10. A non-retrievable slope line meter shall be installed at each pump to record the total operating hours of the station.

LEGEND:

- ☐ CATCH BASIN
- UTILITY MANHOLES
- ⊕ FIRE HYDRANT
- ⊕ WATER VALVE
- ⊕ WATER METER
- ⊕ CURB AND GUTTER
- ⊕ EXIST. IMPROVEMENTS
- ⊕ CONCRETE WALKWAYS
- TELE./ELEC. PULL BOX
- ⊕ WOOD POWER POLE
- ⊕ POWER POLE w/ALUMINARE
- ⊕ CONC. POWER POLE
- ⊕ TRAFFIC SIGN
- ⊕ CONC. WHEEL STOP
- ⊕ EXIST. GROUND ELEVATION
- NEW ASPHALT PAVEMENT

**48 HOURS BEFORE DIGGING
CALL UNCLE**
TOLL FREE
1-800-832-4770
UNDERGROUND UTILITIES NOTIFICATION
CENTER OF FLORIDA

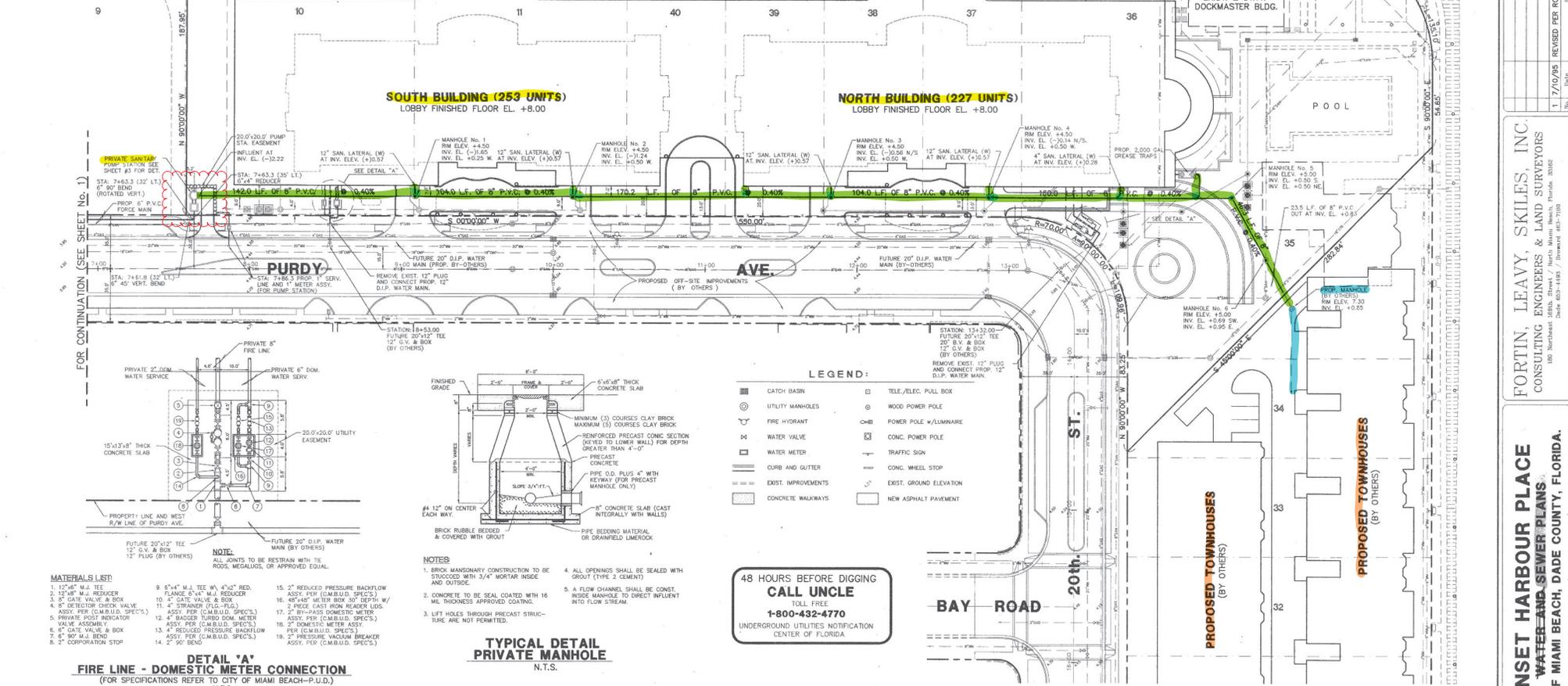


FORTIN, LEAVY, SKILES, INC.
 CONSULTING ENGINEERS & LAND SURVEYORS
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 Dade County, Florida 33142-1490 / Telephone: 405-7600
 Fax: 405-7601 / Telefax: 405-7600

SUNSET HARBOUR PLACE
WATER AND SEWER PLANS
 CITY OF MIAMI BEACH, DADE COUNTY, FLORIDA.

Date: **SEPT. 7, 1994**
 Scale: **1"=30'**
 Check By: **CLS**
 Job No.: **9345**
 Rev. Dwg.: **940679/795**
 Field Book: **475/38**
 Civil: **WS345-1 (98)**
 Dwg. No.: **894-025**
 Sheet: **1 of 4**

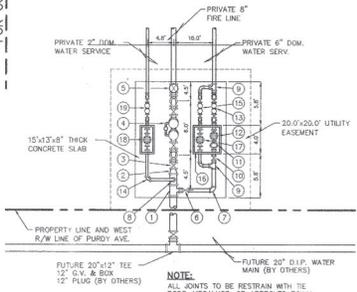
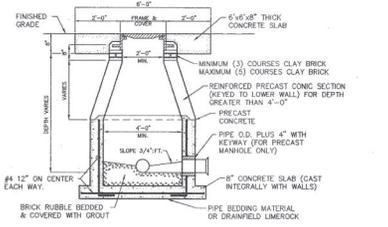
8/21/95
Carl L. Skiles
 P.E. CARL L. SKILES P.E.
 FLA. REG. NO. 13617



48 HOURS BEFORE DIGGING CALL UNCLE
TOLL FREE
1-800-432-4770
UNDERGROUND UTILITIES NOTIFICATION
CENTER OF FLORIDA

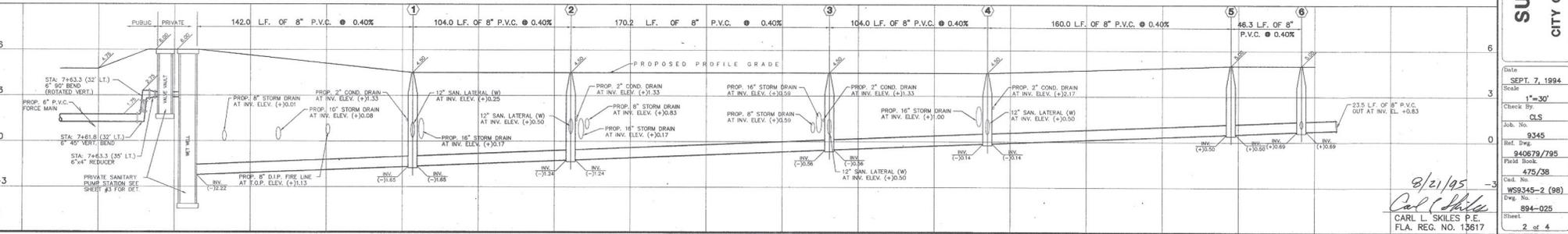
LEGEND:

	CATCH BASIN		TILE, ELEC. PULL BOX
	UTILITY MANHOLES		WOOD POWER POLE
	FIRE HYDRANT		CONC. POWER POLE w/LUMINAIRE
	WATER VALVE		TRAFFIC SIGN
	WATER METER		CONC. WHEEL STOP
	CURB AND GUTTER		EXIST. GROUND ELEVATION
	EXIST. IMPROVEMENTS		NEW ASPHALT PAVEMENT
	CONCRETE WALKWAYS		



- MATERIALS LIST:**
- | | | |
|--|--|--|
| 1. 12"x6" M.J. TEE | 9. 6"x4" M.J. TEE W/ 4"x2" RED. FLANGE 6"x4" M.J. REDUCER | 15. 2" REDUCED PRESSURE BACKFLOW ASSY. PER (C.M.B.U.D. SPECS.) |
| 2. 12"x6" M.J. REDUCER | 10. 4" GATE VALVE & BOX | 16. 48"x48" METER BOX 30" DEPTH W/ 2" PRECAST CONCRETE HOOKS |
| 3. 8" GATE VALVE & BOX | 11. 4" STRAINER FLEX-FLO ASSY. PER (C.M.B.U.D. SPECS.) | 17. 2" BY-PASS DOMESTIC METER ASSY. PER (C.M.B.U.D. SPECS.) |
| 4. 8" DETECTOR CHECK VALVE ASSY. PER (C.M.B.U.D. SPECS.) | 12. 4" BACKFLOW TEST DOM. METER ASSY. PER (C.M.B.U.D. SPECS.) | 18. 2" DOMESTIC METER ASSY. PER (C.M.B.U.D. SPECS.) |
| 5. PRIVATE HOSE INDICATOR VALVE ASSEMBLY | 13. 4" REDUCED PRESSURE BACKFLOW ASSY. PER (C.M.B.U.D. SPECS.) | 19. 2" PRESSURE VACUUM BREAKER ASSY. PER (C.M.B.U.D. SPECS.) |
| 6. 8" GATE VALVE & BOX | 14. 2" 90° BEND | |
| 7. 8" 90° M.J. BEND | | |
| 8. 2" COPPERATION STOP | | |
- NOTE:** ALL JOINTS TO BE RESTRAINED WITH THE RODS, METALLIC OR APPROVED EQUAL.

- NOTES:**
- BRICK MANSUARY CONSTRUCTION TO BE STUCCOED WITH 3/4" MORTAR INSIDE AND OUTSIDE.
 - CONCRETE TO BE SEAL COATED WITH 16 MIL THICKNESS APPROVED COATING.
 - LIFT HOLES THROUGH PRECAST STRUCTURE ARE NOT PERMITTED.
 - ALL OPENINGS SHALL BE SEALED WITH GROUT (TYPE 2 CEMENT).
 - A FLOW CHANNEL SHALL BE CONSTRUCTED INSIDE MANHOLE TO DIRECT INFLUENT INTO FLOW STREAM.



FORTIN, LEAVY, SKILES, INC.
CONSULTING ENGINEERS & LAND SURVEYORS
1710/95 REVISED PER ROAD IMPROVEMENTS

SUNSET HARBOUR PLACE
WATER AND SEWER PLANS
CITY OF MIAMI BEACH, DADE COUNTY, FLORIDA.

Date: SEPT. 7, 1994
Scale: 1"=30'
Check By: CLS
Job No: 9345
Ref. Dwg: 940679/795
Plot Book: 475/38
Cadd. No: WS9345-2 (98)
Dwg. No: 894-025
Sheet: 2 of 4

8/21/95
Carl L. Skiles P.E.
CARL L. SKILES P.E.
FLA. REG. NO. 13617

ELECTRICAL DATA

"TYPICAL SPECIFICATIONS FOR DAVIS-EMU SUBMERSIBLE SEWAGE PUMP STATIONS"

4" Model Pumps
With FK Motors

FURNISH:
Pumps and install **1** two Davis-EMU Model **FA 102-306**, 4" discharge connection, totally submersible sewage pumps, **0.5** H.P., **1720** RPM, **230** volts, 3 phase, 60 hertz motor(s), capable of delivering **325** GPM against **13.4'** TDH.

PUMP CONSTRUCTION:
The pumps shall be designed to pump average, storm water, heavy sludge and other fibrous materials without injurious damage during operation. The design shall be such that the lifting cover, stator housing and volute casing are of grey iron construction, with all nuts, bolts, washers and other fastening devices coming into contact with the sewage constructed of stainless steel. The impeller shall be of high alloy grey iron construction and provided with stainless steel wear ring.

The pump motor shall be of Class F insulation, NEMA B design, watertight and positively oil cooled, filled with a transformer oil, quality BP Energol J30 or Shell Dialin D or DX. The pump motor shall be guaranteed to run in a totally, partially or non-submerged condition continuously for a period of 24 hours without injurious damages. Water cooled pumps shall not be considered equal.

The pump shall be provided with a tandem double mechanical seal running in an oil bath. The seals shall be of lap-joint tungsten carbide and welded to stainless steel retainers and held in contact by separate springs. Conventional double mechanical seals with a spring assembly between the rotating faces, requiring constant differential pressure to effect sealing and subject to penetration and opening by pumping forces shall not be considered equal to the tandem seal specified and required.

The pump shaft shall be of stainless steel and supported by a double row inboard bearing for axial thrust and a single row outboard bearing for radial thrust. The impeller shall be connected to a short sturdy shaft in order to minimize shaft deflection. The shaft shall not extend more than 2 1/2 times its diameter below the nearest support bearing.

The pump cable shall be 13 feet of the "ISO" type and in compliance with industry standards for loads, resistance against sewage and of stranded construction. The cable shall enter the pump through a heavy duty entry assembly which shall be provided with an internal grommet assembly to protect against leakage once secured and must have a strain relief assembly as part of standard construction. The power cable shall connect to a terminal board which separates the incoming service from the pump motor, where, if leakage occurs, the terminal board shall short out and not cause damage to the motor.

Each pump shall be supplied with a universal coupling which bolts to the pump discharge flange and shall accept the discharge elbow provided by the pump manufacturer. Seal of the pump at the discharge flange shall be accomplished by a simple downward linear motion of the pump with the entire weight of the pump guided to and pressing against the discharge connection; no part of the pump shall bear directly on the pump floor and no rotary motion of the pump shall be required for sealing. Sealing at the discharge shall be effected by a rubber lip to insure a positive backup system and for ease of removal. Metal to metal discharge connections will not be considered equal. The pump shall be guaranteed not to leak at the discharge flange. Other forms of guiding, such as straightening vanes etc., shall not be considered equal.

CONTROLS:
Furnish and install one (1) Davis-EMU automatic pump control center in NEMA **3R** enclosure of Fiberglass-Reinforced Plastic Construction for **230** volts, 3 phase, 60 hertz, four wire power supply. Each pump shall have an individual disconnect switch, magnetic starter with three phase overload protection and manual reset, hand-off-automatic selector switches, magnetic starter with three phase overload protection for the alternator in the event of failure. Also provide a high level alarm. Also furnish **one** liquid level regulator, each provided with 15' of electric cable. The motor control center shall be installed in a location as shown on the engineer's drawings.

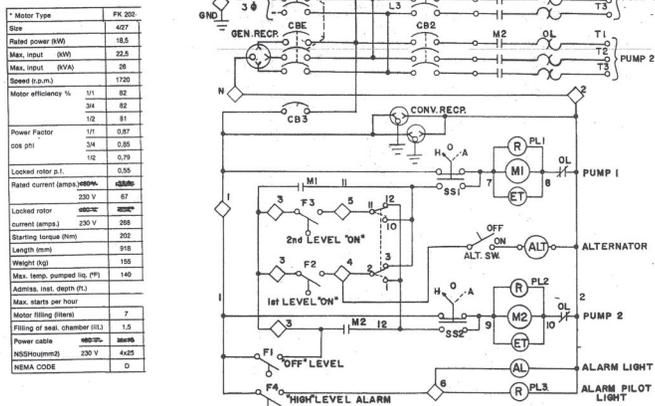
ACCESS FRAME:
Furnish one (1) Davis-EMU Model **T-2** pump access frame, complete with hinged and hamp-equipped cover, upper guide holders, galvanized lifting chain, and stainless steel cable holder. Frame shall be securely mounted in the slab of the sump as shown on the Engineers drawings.

PUMP GUIDE BARS:
Furnish one (1) T-Bar Guide Rail for each pump to permit raising and lowering the pump. Guide rails shall be of adequate length to extend from the lower guide holder on the pump discharge connection to the upper guide holder mounted on the access frame.

PUMP LIMITED WARRANTY:
The pump manufacturer shall warrant the pumps to be supplied to the owner for a period of five (5) years under normal use. The warranty must include 100% coverage of the manufacturer's shop labor and parts for the first year and then 50% coverage through the fifth year. See actual warranty for details.

TESTING:
Before placing installation into service the pumps shall be run continuously with the motor not submerged for 30 minutes under full load current with no discharge resulting to the pump motor. The pumps shall during this test produce the designed GPM and TDH conditions and shall experience a hose run no rise more than 4°C above ambient temperature.

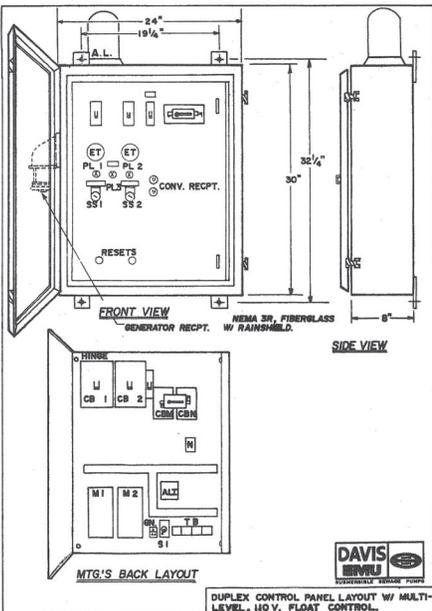
COMPATIBILITY OF EQUIPMENT:
In order to assure the proper performance and compatibility of interacting components within the intent of the specifications; the pumps, control center, access frame and warranty shall be supplied by the same manufacturer.



LEGEND:
CBN NORMAL POWER 3P CIRCUIT BRKR.
CB1 CB2 PUMP 3P CIRCUIT BREAKER
CB3 CONTROL IP CIRCUIT BREAKER
M1 M2 MOTOR STARTER 3P
ALT ALTERNATOR 300T 110VOLT
SS1 SS2 SELECTOR SWITCH 3POS. H-O-A
ALT SW ALTERNATOR SWITCH SPST
FI-A FLOAT CONTROL SWITCH
PL2,3 PILOT LIGHT 110VOLT
AL ALARM LIGHT 110VOLT
ET ELAPSED TIME METER - NEW REPEATABLE
GENRECP GENERATOR RECEPTACLE



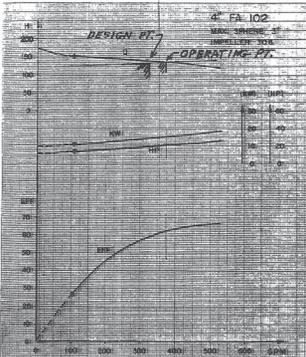
DAVIS-EMU
DUPLX CONTROL PANEL
110 V. FLOAT CONTROL
SCHEMATIC
2/6/79 C.C.W.



PANEL SCHEDULE

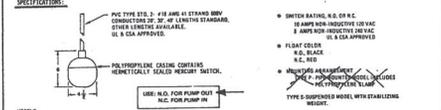
Circuit	Service	Breaker Amps	F.L.A.	Demand Load Amps
1	Pump No. 1	80	67	125% x 67 = 84
2	Pump No. 2	80	67	= 67
3	Controls	20	15	= 15
4	Duplex Recept.	20	15	= 15
				TOTAL 181

Feeder = 3 #20 THWCU and
1 #1 Neutral
in 2" Conduit



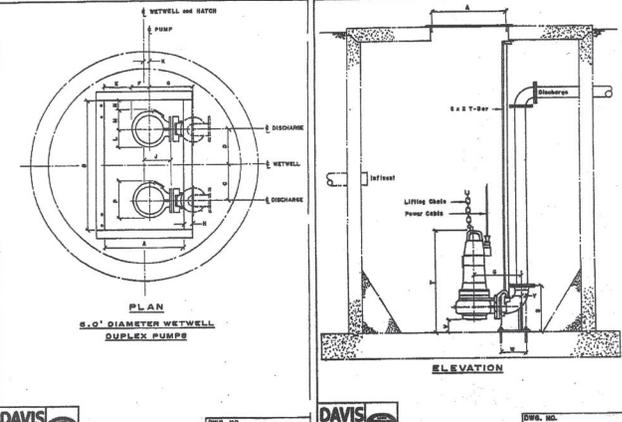
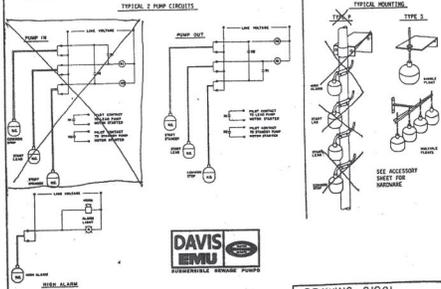
DESIGN	1.4 Prime Capacity	NOTES	1. Motor	2. Voltage
1.4 Prime Capacity	1.4 Prime Capacity	1. Motor	2. Voltage	3.30
1.4 Prime Capacity	1.4 Prime Capacity	1. Motor	2. Voltage	3.30

THE FLOAT IS A CHEMICAL RESISTANT POLYPROPYLENE CASING WITH A FIBRE REINFORCED ELECTRICAL CABLE MOUNTING. ONE END OF THE CABLE IS PERMANENTLY ATTACHED TO THE METAL ENCLOSED RESISTANT WATER AND THE OTHER ASSEMBLY IS DISAPPLICATED TO FORM A COMPLETELY WATER TIGHT AND IMPREGNATED UNIT.



SWITCH ARRANGEMENT	NO. OF POLES	NO. OF CIRCUITS	NO. OF CIRCUITS	NO. OF CIRCUITS
NORMALLY OPEN	10	10	10	10
NORMALLY CLOSED	10	10	10	10

APPLICATIONS:
USE IN CONTROLLING PUMPS OF OTHER MACHINES AND MEASURING ALARM LEVELS IN WATER, SEWAGE AND MANY OTHER LIQUIDS. FLOATS MAY BE USED FOR PUMP IN OR PUMP OUT CONTROL, FOR LOW LEVEL CUTOUT, OR FOR LOW AND HIGH LEVEL ALARMS.



TYPICAL WETPIT INSTALLATION DIMENSIONS FOR A FA 102 PUMP WITH T-BAR GUIDE RAIL SYSTEM

	SIMPLEX	DUPLX	TRIPLEX
A	30.0	30.0	30.0
B	30.0	48.0	24.0
C	N/A	12.0	30.0
D	N/A	14.0	N/A
E	8 1/2	8 1/2	8 1/2
F	8 1/2	8 1/2	8 1/2
G	20.0	20.0	20.0
H	3.0	3.0	3.0
I	10 1/2	10 1/2	10 1/2
J	8 1/2	8 1/2	8 1/2
K	8 1/2	8 1/2	8 1/2
L	8 1/2	8 1/2	8 1/2
M	10 1/2	10 1/2	10 1/2
N	4 1/2	1 1/2	1 1/2
O	4 1/2	4 1/2	4 1/2
P	4 1/2	4 1/2	4 1/2
Q	10 1/2	10 1/2	10 1/2
R	4 1/2	4 1/2	4 1/2
S	10 1/2	10 1/2	10 1/2
T	44 1/2 INCH	44 1/2 INCH	44 1/2 INCH
U	4 1/2	4 1/2	4 1/2
V	4 1/2	4 1/2	4 1/2
W	10 1/2	10 1/2	10 1/2
X	2 1/2	2 1/2	2 1/2
Y	2 1/2	2 1/2	2 1/2

DIMENSIONS BASED ON MINIMUM HATCH SIZE. IF LARGER HATCHES ARE USED THESE DIMENSIONS WILL VARY...
* HATCH SPECIFIC DIMENSIONS SHOULD VARY FROM MODEL TO MODEL...
ALL DIMENSIONS GIVEN IN INCHES...

FORTIN, LEAVY, SKILES, INC.
CONSULTING ENGINEERS & LAND SURVEYORS
1000 North Miami Street, North Miami Beach, Florida, 33162
Phone 405-4470

SUNSET HARBOUR PLACE
WATER-SANITARY SEWER PLANS
CITY OF MIAMI BEACH, DADE COUNTY, FLORIDA.

DATE: SEPT. 7, 1994
DRAWN BY: C.L.S.
CHECKED BY: C.L.S.
JOB NO.: 840679/785
SHEET NO.: 479/208
SCALE: AS SHOWN
DRAWN BY: C.L.S.
DATE: 8/21/93
CALIFORNIA
CARL L. SKILES P.E.
FLA. REG. NO. 13817