SECTION 01775

MAGNETIC MEDIA SUBMITTALS

PART 1 - GENERAL

1.01 SCOPE OF WORK

The Department reserves the right to require that the Contractor and subcontractors provide documents transmitted to the Department in electronic format, as specified the Department.

1.02 RELATED SECTIONS

Section 01720 - Project Record Documents
Section 01725 - Project As-Builts

1.03 QUALITY ASSURANCE

A. All electronic media submitted to the Department shall be screened for the detection of viruses prior to submittal.

B. All electronic media delivered to the Department shall be labeled and provided in the specific format outlined herein, unless otherwise directed by the Department.

C. Submitter shall be responsible for any translation or conversion required for compliance with the file formats listed below, at no additional cost to the Department.

1.04 WORD PROCESSING

A. Unless otherwise specified, word processing documents submitted on magnetic media shall be delivered to office of the Chief of Utilities Development Division, at the following mailing address, 3575 S. LeJeune Road, Miami, Florida 33233-0316. Letter of Transmittal shall contain a list of all files being provided.

B. Format for filename shall be as for DOS file naming convention.

C. Word processing documents shall be provided in current format being utilized by the Department. At time of this writing, format is WordPerfect for Windows, Release 6.0.

D. Text contained on magnetic media shall be exactly the same as provided in hard copy format.

1.05 PROJECT PLANS

A. Project Plans submitted on magnetic media shall be delivered as addressed in Article 1.04-A

B. Format for filename shall be as stated in Article 1.04-B.

C. Where multiple plans are being provided, each plan sheet shall be individually saved to a file with a descriptive and unique filename.

D. Graphical information contained on magnetic media shall be exactly the same as provided on plan sheet(s).

E. Plans shall be provided in current format being utilized by Department. At time of this writing, format being used by the Department is AutoCAD for Windows, Release 14, however Release 12 and 13 are also currently accepted. Submitter shall verify with the Department prior to submittal of alternate format.

1. Minimum requirements for AutoCAD drawings shall be as listed in Table 1, attached.

2. AutoCAD drawing files shall be submitted in compliance with the Lay Guide listed in Table 2.

3. Drawing files shall be submitted using the Scale, Limit and Lettering Guides listed in Tables 7 and 8.

4. Symbols of equipment and appurtenances contained on drawing files shall be presented in conformance with the Symbol Guide listed in Table 4.

5. Lines shall be drawn in conformance with the Lineweight Guide listed in Table 5.

6. AutoCAD dimension variables shall be set according to the guide listed in Table 6, with appropriate modifications.

1.06 DATABASE AND SPREADSHEETS

A. Databases and spreadsheets submitted on magnetic media shall be delivered as addressed in Article 1.04-A

B. Format for filename shall be as stated in Article 1.04-B.

C. Databases and spreadsheets shall be provided in current format being utilized by the Department. Currently, the program being used is Lotus, Version 5.0.

PART 2 - PRODUCTS

2.01 GENERAL

A. Electronic media furnished to the Department shall be new.

B. Electronic information shall be submitted in any of the following types of media:

1. 3.5" Magnetic Disk
2. Optical Disk
3. 8-mm Tape Cartridge

C. Where optical disk or tape cartridge shall be provided, submitter shall verify with the Department for media format requirements.

2.02 YEAR 2000 COMPLIANCE

A. All hardware, software and systems comprised of information technology products proposed for use in this project shall be Year 2000 compliant and shall be in accordance with the requirements as stated herein.

B. Proposed software must perform fault-free in the processing of date and date related data, including, but not limited to, calculating, comparing and sequencing, by all hardware and software products delivered under this project, individually, and in combination, upon installation. Fault-free performance includes the manipulation of data with dates prior to, through, and beyond January 1, 2000, and shall be transparent to the user.

C. Hardware and software products, individually and in combination, shall successfully transition into the year 2000 with correct system date, without human intervention including leap year calculations. Hardware and software products, individually and in combination, shall also provide correct results when moving forward or backward in time across the year 2000.

PART 3 - EXECUTION

(Not Used)

END OF SECTION

TABLE 1

AUTOCAD FILE REQUIREMENTS

The following shall be minimum requirements for all survey information or project plans provided in AutoCAD file format:

1. Drawing within the file shall be at 1:1. Plotting scale shall be 1" = 40'.
2. Entities shall be set into layers as per the approved Layer Guide shown in Table 2.
3. Station numbers shall be 7.00' high.
4. Street names shall be 8.00' high. All other test shall be as per approved Scale - Lettering Guide shown in Table 8.
5. Text shall be as listed in approved Frame - Lettering Guide shown in Table 8.
6. Stationing shall increase from west to east and from south to north.
7. Topography shall be plotted in one single and complete file using Dade County State Plane Coordinate System Control and aligned to the proper bearings.
8. Labels for topography items shall be set outside of the right-of-way and shall be oriented to read from the right side of the plan.
9. Arrow and other standard symbols shall be as shown the Symbol Guide in Table 4.
10. Tick marks and station value shall be placed at every 100' stations. Tick marks shall be 8' long.
11. All entities shall be created in such a form that they may be edited. No protection of text or symbols will be allowed.
12. Right-of-way lines, baselines, lot lines and other geometry related entities shall be set at Z=0.00 elevations
13. Lineweightsshall be as approved in Lineweight Guide in Table 5.
14. Dimension variables shall be similarly as shown in Table 6.

TABLE 2

AUTOCAD DRAWING LAYER GUIDE

WASD ENGINEERING DIVISION QUALITY IMPROVEMENT PROCESS	DATE JAN. 98	APP.	PROCEDURE NUMBER PRO-QUIP - 5.01	DESCRIPTION FIGURE 5.01-3	SHEET OF 1 10

CIVIL LAYERS (CLAYER.DWG)

DESCRIPTION	LAYER	COLOR	PEN	LINETYPE	REMARKS
AREA	CAREA	2	0.006	CONTINUOUS	
ASPHALT CONC. PVMT.	CACP	3	0.010	CONTINUOUS	
BOUNDARY LINE	CBDRY	12	0.020	PHANTOM	
PROPOSED BUILDING	CPBLDG	20	0.020	CONTINUOUS	
EXISTING BUILDING	CEBLDG	130	0.015	DASHED	
BLOCK	CBLK	3	0.010	CONTINUOUS	
EXISTING CURB	CECURB	3	0.010	DASHED	
PROPOSED CURB	CPCURB	3	0.010	CONTINUOUS	
EXISTING CATCH BASIN	CECB	1	0.010	DASHED	(BLOCK)
PROPOSED CATCH BASIN	CPCB	1	0.010	CONTINUOUS	(BLOCK)
CENTER LINE	CCL	2	0.006	CENTER	
CONCRETE	CCONC	5	0.010	CONTINUOUS	
CONSTRUCTION	CCONST	5	0.010	CONTINUOUS	
EXISTING ELEVATION	CEELEV	6	0.008	CONTINUOUS	(TEXT)
PROPOSED ELEVATION	CPELEV	6	0.008	CONTINUOUS	(TEXT)
EASEMENT LINE	CEASTM	2	0.006	DASHED2	
FIRE HYDRANT	CFHYD	1	0.010	CONTINUOUS	
FENCE	CFENCE	5	0.010		(SPECIAL LINE)
EXISTING GUTTER	CEGUTTER	3	0.010	DASHED	
PROPOSED GUTTER	CPGUTTER	3	0.010	CONTINUOUS	
GRADE	CGRADE	6	0.008		(ARROW-BLOCK)
HIGHWAY	CHIGHWAY	7	0.012	CONTINUOUS	
METER	CMETER	1	0.010	CONTINUOUS	
MISCELLANEOUS	CMISC	5	0.010	CONTINUOUS	
EXISTING MANHOLE	CEMH	1	0.010	DASHED	(BLOCK)
PROPOSED MANHOLE	CPMH	1	0.010	CONTINUOUS	(BLOCK)
EXISTING PAVEMENT	CEPAVMT	3	0.010	DASHED	

CIVIL LAYERS (CLAYER.DWG)

DESCRIPTION	LAYER	COLOR	PEN	LINETYPE	REMARKS
PROPOSED PAVEMENT	CPPAVMT	3	0.010	CONTINUOUS	
PROPERTY LINE	CPL	3	0.010	CONTINUOUS	
RIGHT OF WAY	CRW	130	0.015	PHANTOM	
SANITARY	CSAN	1	0.010	CONTNUOUS	(BLOCK)
STORM DRAIN	CSD	1	0.010	CONTINUOUS	(BLOCK)
SANITARY SEWER	CSS	1	0.010	CONTINUOUS	(BLOCK)
STATION	CSTA	1	0.010	CENTER2	
TOPOGRAPHY	CTOPO	6	0.008	DASHED	
NOTES	CNOTES	7	0.012	CONTINUOUS	(TEXT)
SURVEY TEXT	CSTEX	7	0.012	CONTINUOUS	(TEXT)
UTILITIES UNDERGROUND	CUTIL	8	0.010	DASHED	
DIMENSIONS	CDIM	1	0.010	CONTINUOUS	(TEXT)
HATCH (POCHE)	CHATCH	9	0.006	DOTS	
BASE LINE	CBS	210	0.010	CONTINUOUS	
COORDINATES	CCOORD	2	0.006	CONTINUOUS	
SECTION LINE	CSLINE	210	0.010	CENTER2	
POINT	CPOINT	7	0.010	CONTINUOUS	
PROFILE	CPROFILE	1	0.010	CONTINUOUS	

WASD ENGINEERING DIVISION QUALITY IMPROVEMENT PROCESS	DATE JAN. 98	APP.	PROCEDURE NUMBER PRO-QUIP - 5.01	DESCRIPTION FIGURE 5.01-3	SHEET OF 3 10

STRUCTURAL LAYERS (SLAYER.DWG)

DESCRIPTION	LAYER	COLOR	PEN	LINETYPE	REMARKS
FOOTING	SFOOTING	3	0.010	DASHED	(BLOCK)
COLUMN	SCOLUMN	3	0.010	CONTINUOUS	(BLOCK)
BEAM	SBEAM	3	0.010	CONTINUOUS	
BARS	SBARS	150	0.016	CONTINUOUS	(BLOCK)
BOLTS	SBOLTS	5	0.010	CONTINUOUS	(BLOCK)
STIRRUPS	SSTIRRUPS	130	0.015	CONTINUOUS	
JOINTS	SIJKJCJ	2	0.006	CONTINUOUS	
PILES	SPILES	5	0.010	CONTINUOUS	(BLOCK)
JOIST STEEL	SJOISTSTEEL	5	0.010	CONTINUOUS	(BLOCK)
JOIST CONC.	SJOISTCONC.	5	0,010	CONTINUOUS	(BLOCK)
WALL CONC.	SWALLCONC.	20	0.020	CONTINUOUS	
WALL BLOCK	SWALLBLOCK	20	0.020	CONTINUOUS	
SLAB	SSLAB	7	0.012	CONTINUOUS	(TEXT)
NOTES	SNOTES	1	0.010	CONTINUOUS	(TEXT)
DIMENSIONS	SDIMENSIONS	1	0.010	CONTINUOUS	(TEXT)
HATCH	SHATCH	6	0.008	CONTINUOUS	(HATCH)

ARCHITECTURAL LAYERS (ALAYER.DWG)

DESCRIPTION	LAYER	COLOR	PEN	LINETYPE	REMARKS
PROPERTY LINE	APROPLINE	172	0.020	PHANTOMX2	
CENTER LINE	ACENTER	2	0.006	CENTER	
FUTURE OBJECTS	AFUT	7	0.012	DASHED	
EXISTING OBJECTS	AEXIST	7	0.012	DASHED2	
DIMENSIONS	ADIM	7	0.012	CONTINUOUS	
DOOR LINES	ADOORS	1	0.010	CONTINUOUS	
DRYWALL PARTITIONS	ADWPART	5	0.010	CONTINUOUS	
HATCH PATTERNS	AHATCH	6	0.008	CONTINUOUS	
HIDDEN LINES	AHIDDEN	9	0.006	HIDDEN	
SINGLE VIEW LINES	ALVIEW	2	0.006	CONTINUOUS	
PLUMBING FIXTURES	APLUMB	6	0.008	CONTINUOUS	
PORTABLE PARTITIONS	APORTABLE	4	0.010	CONTINUOUS	
STAIR AND RAMP RAILING	ARAILING	9	0.006	DASHED2	
ROOM TAG AND NUMBER	ARMNAME	7	0.012	CONTINUOUS	
STRUCT. CONC. WALLS	ASWALL	222	0.025	CONTINUOUS	
MASONRY WALLS	AMWALL	222	0.025	CONTINUOUS	
SINGLE LINES	ALINE	7	0.012	CONTINUOUS	
SECTION LINES	ASLINE	172	0.020	CONTINUOUS	
TEXT NOTES	ATXNOTE	7	0.012	CONTINUOUS	
TEXT SYMBOLS	ATSYMB	7	0.012	CONTINUOUS	
WINDOW LINES	AWINDOW	1	0.010	CONTINUOUS	
CHAIN LINK FENCE	AFENCE	6	0.008	DASHDOTX2	
CERAMIC TILE WALL OR FL.	ACERAMIC	111	0.006	CONTINUOUS	
SPANISH 'S' TILES ROOF	ACLAYTILE	10	0.016	CONTINUOUS	
BERM LINES	ABERM	13	0.010	CONTINUOUS	
GRID COORDINATES	ACOORD	9	0.006	CONTINUOUS	
ROOFING FIXTURES	AROOF	9	0.006	CONTINUOUS	

WASD ENGINEERING DIVISION QUALITY IMPROVEMENT PROCESS	DATE JAN. 98	APP.	PROCEDURE NUMBER PRO-QUIP - 5.01	DESCRIPTION FIGURE 5.01-3	SHEET OF 5 10

ARCHITECTURAL LAYERS (ALAYER.DWG)

DESCRIPTION	LAYER	COLOR	PEN	LINETYPE	REMARKS
GROUND LINES	AGROUND	13	0.010	CONTINUOUS	
CEILING FIXTURES	ACEILING	5	0.010	CONTINUOUS	
COLUMNS SECTIONED	ACOLUMN	222	0.025	CONTINUOUS	
SCREEN FOR OPENINGS	ASCREEN	6	0.008	HIDDEN2	

MECHANICAL LAYERS (MLAYER.DWG)

DESCRIPTION	LAYER	COLOR	PEN	LINETYPE	REMARKS
MECH. AIR COND. PIPE	MACPIPE	60	0.020	CONTINUOUS	
MECH. AIR COND. DIFFUSER	MACDIFF	90	0.012	CONTINUOUS	
MECH. AIR COND. DUCTWORK	MACDUCT	232	0.020	CONTINUOUS	
MECH. AIR COND. EQUIPMENT	MACEQUIP	20	0.020	CONTINUOUS	
MECH. AIR COND. PIPE EXISTING	MACPIPEEX	120	0.010	DASHED	
MECH. AIR COND. DIFFU. EXISTING	MACDIFFEX	100	0.010	DASHED	
MECH. AIR COND. DUCTWK EXIST'G.	MACDUCTEX	211	0.010	DASHED	
MECH. AIR COND. EQUIP. EXISTING	MACEQUIPEX	40	0.010	DASHED	
MECH. PLUMBING COLD WATER	MPLCW	121	0.020	CENTERX2	
MECH. PLUMBING HOT WATER	MPLHW	20	0.020	PHANTOMX2	
MECH. PLUMBING FIRE	MPLFIRE	15	0.016	CONTINUOUS	
MECH. PLUMB. COLD WTR. EXIST'G.	MPLCWEX	100	0.010	DASHED	
MECH. HOT WATER EXISTING	MPLHWEX	120	0.010	DASHED	
MECH. PLUMBING FIRE EXISTING	MPLFIREEX	40	0.010	DASHED	
MECH. PROPOSED SANITARY	MPPSAN	174	0.015	CONTINUOUS	
MECH. PROPOSED SLUDGE	MPPSLDG	60	0.020	CONTINUOUS	
MECH. PROPOSED EFFLUENT WRT.	MPPEFF	160	0.020	CONTINUOUS	
MECH. PROPOSED GAS	MPPGAS	253	0.020	CONTINUOUS	
MECH. PROPOSED SEWER	MPPSEWER	174	0.015	CONTINUOUS	
MECH. PROPOSED WATER	MPPWATER	121	0.020	CONTINUOUS	
MECH. PROPOSED EQUIPMENT	MPPEQUIP	140	0.020	CONTINUOUS	
MECH. SANITARY EXISTING	MPPSANEX	120	0.010	DASHED	
MECH. SLUDGE EXISTING	MPPSLDGEX	40	0.010	DASHED	
MECH. EFFLUENT WATER EXISTING	MPPEFFEX	110	0.010	DASHED	
MECH. GAS EXISTING	MPPGASEX	132	0.010	DASHED	
MECH. SEWER PIPING EXISTING	MPPSEWEX	5	0.010	DASHED	
MECH. WATER EXISTING	MPPWATEX	4	0.010	DASHED	

MECHANICAL LAYERS (MLAYER.DWG)

DESCRIPTION	LAYER	COLOR	PEN	LINETYPE	REMARKS
MECH. EQUIPMENT EXISTING	MPPEQEX	211	0.010	DASHED	
MECH. CONCRETE PIPING	MCONPIPE	161	0.020	CONTINUOUS	
MECH. CONCRETE FITTING	MCONFIT	140	0.020	CONTINUOUS	
MECH. CONC. PIPE EXISTING	MCONPPEX	132	0.010	DASHED	
MECH. CONC. FITTING EXISTING	MCONFITEX	200	0.010	DASHED	
MECHANICAL NOTES	MNOTES	7	0.012	CONTINUOUS	
MECHANICAL TEXT	MTEXT	7	0.012	CONTINUOUS	
MECHANICAL DIMENSIONS	MDIM	7	0.012	CONTINUOUS	
CENTER LINE	MCENTER	2	0.006	CENTERX2	
HATCH	MHATCH	6	0.008	CONTINUOUS	

ELECTRICAL LAYERS (ELAYER.DWG)

DESCRIPTION	LAYER	COLOR	PEN	LINETYPE	REMARKS
TEXT NOTES	ETXNOTES	7	0.012	CONTINUOUS	
HATCH	EHATCH	6	0.008	CONTINUOUS	
NEW ELECT. LINES	EELECT	178	0.030	CONTINUOUS	
EXISTING	EEXIST	54	0.010	DASHED2	
ELECT. UNDERGRD. LINES	EEUG	124	0.030	DASHED	
SYMBOLS	ESYMB	115	0.020	CONTINUOUS	
EQUIPMENT	EEQUIP	3	0.010	CONTINUOUS	
FUTURE	EFUTURE	4	0.010	DASHED	
FIXTURES	EFIXT	85	0.020	CONTINUOUS	
RECEPTACLES	ERECEP	223	0.020	CONTINUOUS	
SWITCHES	ESW	233	0.020	CONTINUOUS	
COMMUNICATIONS	ETCOMM	135	0.015	CONTINUOUS	
FIRE ALARM	EFA	240	0.015	CONTINUOUS	
TELEPHONE	ETEL	171	0.015	CONTINUOUS	
120V, ELECT. LINES	EELEC	5	0.010	DIVIDE2	
13000V, ELECT. LINES	EELEC13	94	0.025	DIVIDE2	
2160V, ELECT. LINES	EELEC2	34	0.020	DASHDOT2	
480V, ELECT. LINES	EELEC480	214	0.015	CONTINUOUS	
5000V, ELECT. LINES	EELEC5	161	0.020	DIVIDE2	
CENTER LINE	ECENTER	2	0.006	CENTER	

PIPING LAYERS (PLAYER.DWG)

DESCRIPTION	LAYER	COLOR	PEN	LINETYPE	REMARKS
BASE LINE OF SURVEY	PBL	210	0.010	CONTINUOUS	
CENTER LINE	PCL	210	0.010	CENTER2	
EXIST'G. GROUND IN PROFILE	PEGROUND	11	0.010	CONTINUOUS	
EXIST'G. ELECTRIC UTILITIES	PELECTRIC	1	0.010	CONTINUOUS	
EXIST'G. GAS UTILITIES	PGAS	51	0.010	CONTINUOUS	
LEROY SIZES FROM 60 TO 100	PL60-L100	7	0.012	CONTINUOUS	(TEXT)
LEROY SIZES FROM 120 TO 175	PL120-L175	160	0.020	CONTINUOUS	(TEXT)
LEROY SIZES FROM 200 TO 240	PL200-L240	180	0.030	CONTINUOUS	(TEXT)
LEROY SIZES FROM 290 TO 350	PL290-L350	170	0.040	CONTINUOUS	(TEXT)
LEROY SIZE 425	PL425	162	0.050	CONTINUOUS	(TEXT)
LEROY SIZE 500	PL500	152	0.060	CONTINUOUS	(TEXT)
LEROY SIZE 700	PL700	182	0.070	CONTINUOUS	(TEXT)
EXIST'G. & PROP'D. MONUMENT LINE	PML	210	0.010	CENTER	
EXIST'G. PROPERTY LINE	PPL	7	0.012	PHANTOM2	
PROPOSED SANITARY SEWER OR FORCE MAIN	PPROPSWR *	3	0.010	CONTINUOUS	
PROPOSED WTR. MAIN & FITTINGS	PPROPWTR *	5	0.010	CONTINUOUS	
EXIST'G. & PROP'D. RIGHT OF WAY	PRW	12	0.020	PHANTOM	
EXIST'G. SANITARY SEWER OR FORCE MAIN	PSEWER	3	0.010	DASHED	
EXIST'G. STORM SEWER	PSTORM	4	0.010	CONTINUOUS	
EXIST'G. TELEPHONE & COMMUNICATIONS UTILITIES	PTEL	30	0.010	CONTINUOUS	
EXIST'G. & PROP'D. TOPOGRAPHIC SURVEY INCLUDING SIDEWALK & EDGE OF PAVEMENT	PTOPO	11	0.010	HIDDEN	
EXISTING TREES	PTREES	62	0.004	CONTINUOUS	
EXISTING WATER	PWATER	5	0.010	DASHED2	

* POLYLINE THICKNESS 0.02X SCALE FACTOR (e.i. 1"=40' 0.02x40)

PIPING LAYERS (PLAYER.DWG)

DESCRIPTION	LAYER	COLOR	PEN	LINETYPE	REMARKS
SECTION LINE	PSL	210	0.010	CENTER2	
EXISTING ELEVATION	PEELEV	6	0.008	CONTINUOUS	
EXIST'G. EASTMENT LINE	PEASTM	2	0.006	DASHED2	

WASD ENGINEERING DIVISION QUALITY IMPROVEMENT PROCESS	DATE JAN. 98	APP.	PROCEDURE NUMBER PRO-QUIP - 5.01	DESCRIPTION FIGURE 5.01-4	SHEET OF 1 1

PEN ASSIGNMENTS (COLOR AND WIDTH)

FILE NAME : hpb.pcp

COLOR	PEN	COLOR	PEN	COLOR	PEN
1	0.010	85	0.020	174	0.015
2	0.006	90	0.012	175	0.035
3	0.010	94	0.025	176	0.020
4	0.010	100	0.010	178	0.030
5	0.010	110	0.010	180	0.030
6	0.008	111	0.006	182	0.070
7	0.012	115	0.020	200	0.010
8	0.010	120	0.010	210	0.010
9	0.006	121	0.020	211	0.010
10	0.016	124	0.030	214	0.015
11	0.010	130	0.015	222	0.025
12	0.020	132	0.010	223	0.020
13	0.010	135	0.015	232	0.020
15	0.016	140	0.020	233	0.020
20	0.020	150	0.016	240	0.015
30	0.010	152	0.060	253	0.020
34	0.020	160	0.020		
40	0.010	161	0.020		
51	0.010	162	0.050		
54	0.010	170	0.040		
60	0.020	171	0.015		
62	0.004	172	0.020		

TABLE 3
FILE NAMING GUIDE

RECORD DOCUMENTS

DRAWINGS FOR SPECIFIC PROJECTS	[FILE NAME=(ER #)+(SHEET IDENTIFICATION)] e.g for ER No. 13377, CIVIL. SHEET C-1, FILE NAME IS 13377C01.DWG (AUTOCAD)
SPECIFICATIONS FOR SPECIFIC PROJECTS	(FILE NAME=CSI SECTION No.) FILE NAME IS 15860.WPD (WORDPERFECT)

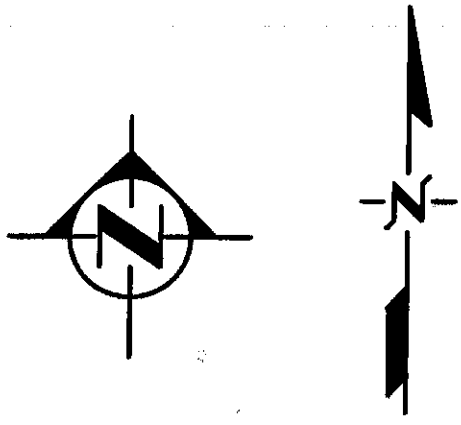
AS-BUILT DOCUMENTS

DRAWINGS FOR SPECIFIC PROJECTS	[FILE NAME=(ER #)+(SHEET IDENTIFICATION)] e.g for ER No. 13377, CIVIL. SHEET C-1, FILE NAME IS 13377C01.DWG (AUTOCAD)
SPECIFICATIONS FOR SPECIFIC PROJECTS	(FILE NAME=CSI SECTION No.) FILE NAME IS 15860.WPD (WORDPERFECT)

NOTE: RECORD AND AS-BUILT DOCUMENTS SHALL BE CLEARLY IDENTIFIED AND RECORDED ON SEPARATE DISK(S), TAPE(S), OTHERS.

DATE: MAY 29, 1996
FILE: TABLE3

TABLE 4
SYMBOL GUIDE



SECTION X / X-00
SCALE: 1"= 0'-1"

DETAIL X / —
SCALE: 1"= 0'-1"

XXXXXXXXXX PLAN
SCALE: 1"= 0'-1"

DATE: MAY. 29, 1996
FILE: TABLE4

LEGEND

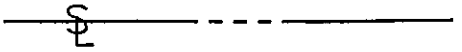
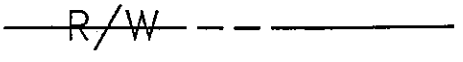
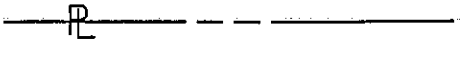
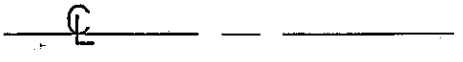
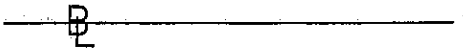
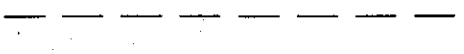
GAS MAIN	SIZE ?, G.
TELEPHONE DUCT UNDERGROUND (U) OVERHEAD (O)	SIZE ?, TEL.
ELECTRIC CABLE UNDERGROUND (U) OVERHEAD (O)	SIZE ?, ELEC.
ELECTRICAL PUL BOX	SIZE ?, ELEC.
STORM SEWER	Ø" SS
CATCH BASIN OR INLET	C.B.

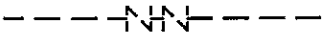
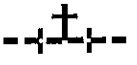
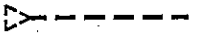
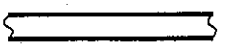
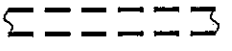
	EXISTING	PROPOSED
FLUSHING VALVE OUTLET (F/V/O) (WS 1.61)		
WATER MAIN (W.M.)	Ø", (MATERIAL) W.M.	Ø", (MATERIAL) W.M.
GATE AND PLUG VALVE		
METER (SINGLE SERVICE) (WS 2.10)		
METER (DUAL SERICE) (WS 2.12)		
REDUCER		
TEE, CROSS		
FIRE HYDRANT (WS 4.5)		
SANITARY SEWER (SAN.)	8", SAN (MATERIAL)	PROPOSED Ø", SAN.
SAN. MANHOLE		M.H.

ITEM	CROSS REF.	SPEC. REF.

MIAMI DADE WATER & SEWER DEPARTMENT	APPROVED	REVISED	STANDARD WATER SUPPLY DETAIL STANDARD SYMBOLS	SHEET1 OF 3

LEGEND

SECTION LINE	
RIGHT OF WAY LINE	
PROPERTY LINE	
CENTER LINE OF PAVEMENT	
BASE LINE	
EDGE OF PAVEMENT LINE	

	PROPOSED	EXISTING
BACKFLOW PREVENTER		
CHECK VALVE		
BENDS OTHER THAN 90°		
BENDS 90°		
TEES		
PLUG		
TAPPING SLEEVE & TAPPING VALVES		
PIPES 20 INCHES OR GREATER		

ITEM	CROSS REF.	SPEC. REF.

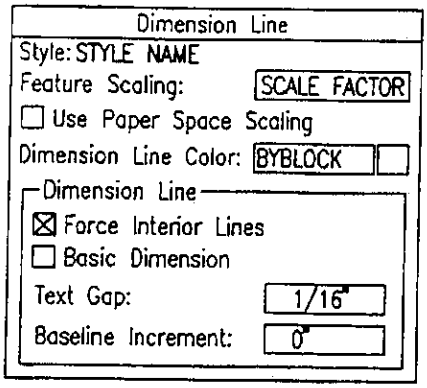
MIAMI DADE WATER & SEWER AUTHORITY	APPROVED	REVISED	STANDARD WATER SUPPLY DETAIL STANDARD SYMBOLS	SHEET 2 OF 3

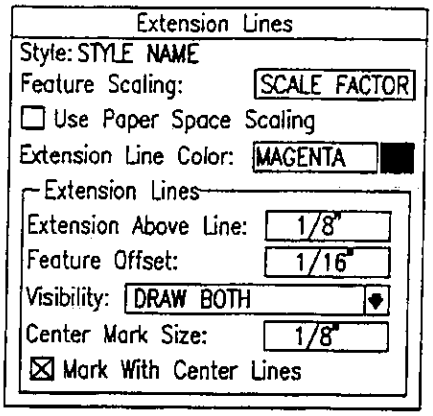
TABLE 5
LINEWEIGHT GUIDE

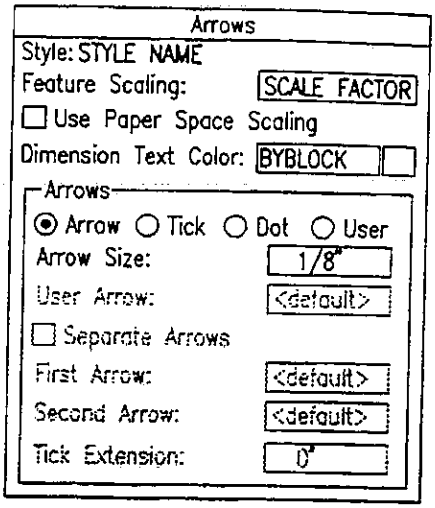
PLOTTED SAMPLE	PEN WIDTH	PEN NUMBER (INTENSITY)	SCREEN COLOR	USES
	0.006	7	YELLOW	CENTER LINES
	0.008	7	MAGENTA	HATCH
	0.010	7	RED	PIPING, EQUIPMENT, DIMENSION LINES AND EXISTING, PROPOSED OR FUTURE BACKGROUND.
	0.010	7	BLUE	
	0.010	7	GREEN	
	0.010	7	CYAN	
	0.012	7	WHITE	TECHNICAL NOTES AND DATA.
	0.016	7	10	
	0.020	7	172	SINGLE LINE PIPES, HVAC DUCTS, ISOMETRICS AND TITTLES.
	0.025	7	222	

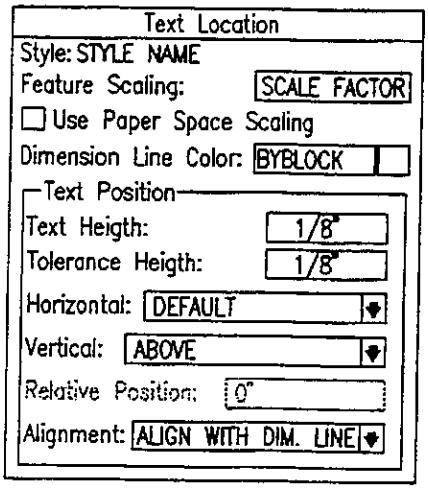
DATE: JAN. 12, 1995
FILE: GUIDE6

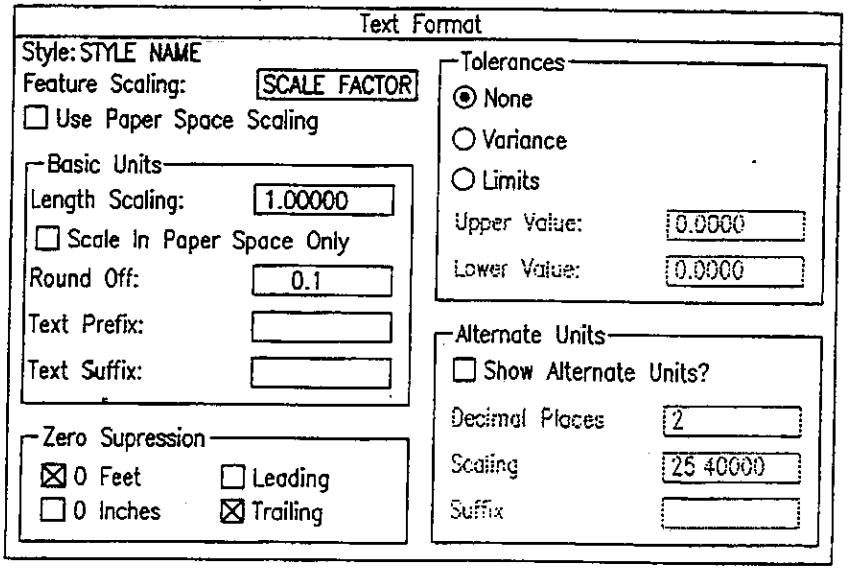
TABLE 6
GUIDE TO SET DIMENSION VARIABLES

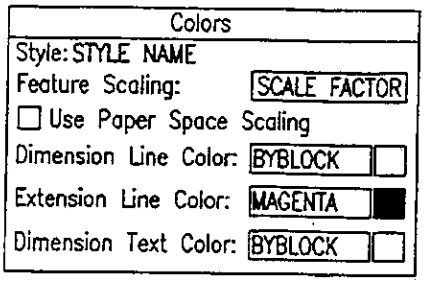












DATE: JAN. 17, 1995
FILE: GUIDE7

TABLE 7

FRAME / LIMITS GUIDE

WASD ENGINEERING DIVISION QUALITY IMPROVEMENT PROCESS	DATE JAN. 98	APP.	PROCEDURE NUMBER PRO-QUIP - 5.01	DESCRIPTION FIGURE 5.01-2	SHEET OF 1 6

FRAME / LIMITS GUIDELINES

SHEET SIZE : 36" X 24"			(LIMITS)	
(FRAME)	(SCALE)	(SCALE FACTOR)	(X)	(Y)
FRAM1 - 16	1/16" = 1'- 0"	(192)	576'	384'
FRAME1 - 8	1/8" = 1"- 0"	(96)	288'	192'
FRAM3 - 16	3/16" = 1"- 0"	(64)	192'	128'
FRAME1 - 4	1/4" = 1'- 0"	(48)	144'	96'
FRAME3 - 8	3/8" = 1'- 0"	(32)	96'	64'
FRAME1 - 2	1/2" = 1'- 0"	(24)	72'	48'
FRAME3 - 4	3/4" = 1'- 0"	(16)	48'	32'
FRAME1	1" = 1'- 0"	(12)	36'	24'
FRAME18	1-1/2" = 1'- 0"	(8)	24'	16'
FRAME3	3" = 1'- 0"	(4)	12'	8'
FRAME1 - 1	1" = 0 '- 1"	(1)	3'	2'
FRAME10	1" = 10'	(120)	360'	240'
FRAME20	1" = 20'	(240)	720'	480'
FRAME30	1" = 30'	(360)	1080'	720'
FRAME40	1" = 40'	(480)	1440'	960'
FRAME50	1" = 50'	(600)	1800'	1200'
FRAME60	1" = 60'	(720)	2160'	1440'
FRAME100	1" = 100'	(1200)	3600'	2400'
FRAME200	1" = 200'	(2400)	7200'	4800'
FRAME300	1" = 300'	(3600)	10800'	7200'
FRAME400	1" = 400'	(4800)	14400'	9600'
FRAME500	1" = 500'	(6000)	18000'	12000'
FRAME600	1" = 600'	(7200)	21600'	14400'

WASD ENGINEERING DIVISION QUALITY IMPROVEMENT PROCESS	DATE JAN. 98	APP.	PROCEDURE NUMBER PRO-QUIP - 5.01	DESCRIPTION FIGURE 5.01-2	SHEET OF 2 6

FRAME / LIMITS GUIDELINES

SHEET SIZE : 8 - 1/2" X 11"			(LIMITS)	
(FRAME)	(SCALE)	(SCALE FACTOR)	(X)	(Y)
DFRA1 - 16	1/16" = 1'-0"	(192)	136'	176'
DFRA1 - 8	1/8" = 1'-0"	(96)	68'	88'
DFRA3 -16	3/16" = 1'-0"	(64)	136/3'	176/3'
DFRA1 - 4	1/4" = 1'-0"	(48)	34'	44'
DFRA3 - 8	3/8" = 1'-0"	(32)	68/3'	88/3'
DFRA1 - 2	1/2" = 1'-0"	(24)	17'	22'
DFRA3 - 4	3/4" = 1'-0"	(16)	34/3'	44/3'
DFRA1	1" = 1'-0"	(12)	8 - 1/2'	11'
DFRA3	3" = 1'-0"	(4)	17/6'	11/3'
DFRA1 - 1	1" = 0'-1"	(1)	8 - 1/2"	11"
DFRA10	1" = 10'	(120)	85'	110'
DFRA20	1" = 20'	(240)	170'	220'
DFRA30	1" = 30'	(360)	255'	330'
DFRA40	1" = 40'	(480)	340'	440'
DFRA50	1' = 50'	(600)	425'	550'
DFRA60	1" = 60'	(720)	510'	660'
DFRA100	1" = 100'	(1200)	850'	1100'
DFRA200	1" = 200'	(2400)	1700'	2200'
DFRA300	1" = 300'	(3600)	2550'	3300'
DFRA400	1" = 400'	(4800)	3400'	4400'
DFRA500	1" = 500'	(6000)	4250'	5500'
DFRA600	1" = 600'	(7200)	5100'	6600'

WASD ENGINEERING DIVISION QUALITY IMPROVEMENT PROCESS	DATE JAN. 98	APP.	PROCEDURE NUMBER PRO-QUIP - 5.01	DESCRIPTION FIGURE 5.01-2	SHEET OF 3 6

FRAME / LIMITS GUIDELINES

SHEET SIZE : 8 - 1/2" X 11"			(LIMITS)	
(FRAME)	(SCALE)	(SCALE FACTOR)	(X)	(Y)
8FRA1 - 16	1/16" = 1'-0"	(192)	136'	176'
8FRA1 - 8	1/8" = 1'-0"	(96)	68'	88'
8FRA3 -16	3/16" = 1'-0"	(64)	136/3'	176/3'
8FRA1 - 4	1/4" = 1'-0"	(48)	34'	44'
8FRA3 - 8	3/8" = 1'-0"	(32)	68/3'	88/3'
8FRA1 - 2	1/2" = 1'-0"	(24)	17'	22'
8FRA3 - 4	3/4" = 1'-0"	(16)	34/3'	44/3'
8FRA1	1" = 1'-0"	(12)	8 - 1/2'	11'
8FRA3	3" = 1'-0"	(4)	17/6'	11/3'
8FRA1 - 1	1" = 0'-1"	(1)	8 - 1/2"	11"
8FRA10	1" = 10'	(120)	85'	110'
8FRA20	1" = 20'	(240)	170'	220'
8FRA30	1" = 30'	(360)	255'	330'
8FRA40	1" = 40'	(480)	340'	440'
8FRA50	1' = 50'	(600)	425'	550'
8FRA60	1" = 60'	(720)	510'	660'
8FRA100	1" = 100'	(1200)	850'	1100'
8FRA200	1" = 200'	(2400)	1700'	2200'
8FRA300	1" = 300'	(3600)	2550'	3300'
8FRA400	1" = 400'	(4800)	3400'	4400'
8FRA500	1" = 500'	(6000)	4250'	5500'
8FRA600	1" = 600'	(7200)	5100'	6600'

TABLE 8

FRAME / LETTERING GUIDE

WASD ENGINEERING DIVISION QUALITY IMPROVEMENT PROCESS	DATE JAN. 98	APP.	PROCEDURE NUMBER PRO-QUIP - 5.01	DESCRIPTION FIGURE 5.01-2	SHEET OF 4 6

FRAME / LETTERING GUIDELINES

SHEET SIZE : 36" X 24"			TITLES STYLE/FONT : ROMAND WIDTH FACTOR : 1.0	NOTES STYLE/FONT : ROMANS WIDTH FACTOR : 0.75
(FRAME)	(SCALE)	(SCALE FACTOR)	(HEIGHT)	(HEIGHT)
FRAM1 - 16	1/16" = 1'-0"	(192)	36.00"	18.00"
FRAME1 - 8	1/8" = 1'-0"	(96)	18.00"	9.00"
FRAM3 - 16	3/16" = 1'-0"	(64)	12.00"	6.00"
FRAME1 - 4	1/4" = 1'-0"	(48)	9.00"	4.50"
FRAME3 - 8	3/8" = 1'-0"	(32)	6.00"	3.00"
FRAME1 - 2	1/2" = 1'-0"	(24)	4.50"	2.25"
FRAME3 - 4	3/4" = 1'-0"	(16)	3.00"	1.50"
FRAME1	1" = 1'-0"	(12)	2.25"	1.125"
FRAME18	1-1/2" = 1'-0"	(8)	1.50"	0.75"
FRAME3	3" = 1'-0"	(4)	0.75"	0.375"
FRAME1 - 1	1" = 0'-1"	(1)	0.1875"	0.09375"
FRAME10	1" = 10'	(120)	22.50"	11.25"
FRAME20	1" = 20'	(240)	45.00"	22.50"
FRAME30	1" = 30'	(360)	67.50"	33.75"
FRAME40	1" = 40'	(480)	90.00"	45.00"
FRAME50	1" = 50'	(600)	112.50"	56.25"
FRAME60	1" = 60'	(720)	135.00"	67.50"
FRAME100	1" = 100'	(1200)	225.00"	112.50"
FRAME200	1" = 200'	(2400)	450.00"	225.00"
FRAME300	1" = 300'	(3600)	675.00"	337.50"
FRAME400	1" = 400'	(4800)	900.00"	450.00"
FRAME500	1" = 500'	(6000)	1125.00"	562.50"
FRAME600	1" = 600'	(7200)	1350.00"	675.00"

WASD ENGINEERING DIVISION QUALITY IMPROVEMENT PROCESS	DATE JAN. 98	APP.	PROCEDURE NUMBER PRO-QUIP - 5.01	DESCRIPTION FIGURE 5.01-2	SHEET OF 5 6

FRAME / LETTERING GUIDELINES

SHEET SIZE : 8 - 1/2" X 11"			TITLES STYLE/FONT : ROMAND WIDTH FACTOR :1.0	NOTES STYLE/FONT : ROMANS WIDTH FACTOR : 0.75
(FRAME)	(SCALE)	(SCALE FACTOR)	(HEIGHT)	(HEIGHT)
DFRA1 - 16	1/16" = 1'-0"	(192)	36.00"	18.00"
DFRA1 - 8	1/8" = 1'-0"	(96)	18.00"	9.00"
DFRA3 - 16	3/16" = 1'-0"	(64)	12.00"	6.00"
DFRA1 - 4	1/4" = 1'-0"	(48)	9.00"	4.50"
DFRA3 - 8	3/8" = 1'-0"	(32)	6.00"	3.00"
DFRA1 - 2	1/2" = 1'-0"	(24)	4.50"	2.25"
DFRA3 - 4	3/4" = 1'-0"	(16)	3.00"	1.50"
DFRA1	1" = 1'-0"	(12)	2.25"	1.125"
DFRA3	3" = 1'-0"	(4)	0.75"	0.375"
DFRA1 - 1	1" = 0'-1"	(1)	0.1875"	0.09375"
DFRA10	1" = 10'	(120)	22.50"	11.25"
DFRA20	1" = 20'	(240)	45.00"	22.50"
DFRA30	1" = 30'	(360)	67.50"	33.75"
DFRA40	1" = 40'	(480)	90.00"	45.00"
DFRA50	1" = 50'	(600)	112.50"	56.25"
DFRA60	1" = 60'	(720)	135.00"	67.50"
DFRA100	1" = 100'	(1200)	225.00"	112.50"
DFRA200	1" = 200'	(2400)	450.00"	225.00"
DFRA300	1" = 300'	(3600)	675.00"	337.50"
DFRA400	1" = 400'	(4800)	900.00"	450.00"
DFRA500	1" = 500'	(6000)	1125.00"	562.50"
DFRA600	1" = 600'	(7200)	1350.00"	675.00"

WASD ENGINEERING DIVISION QUALITY IMPROVEMENT PROCESS	DATE JAN. 98	APP.	PROCEDURE NUMBER PRO-QUIP - 5.01	DESCRIPTION FIGURE 5.01-2	SHEET OF 6 6

FRAME / LETTERING GUIDELINES

SHEET SIZE : 8 - 1/2" X 11"			TITLES STYLE/FONT : ROMAND WIDTH FACTOR : 0.75	NOTES STYLE/FONT : ROMANS WIDTH FACTOR : 0.75
(FRAME)	(SCALE)	(SCALE FACTOR)	(HEIGHT)	(HEIGHT)
8FRA1 - 16	1/16" = 1'-0"	(192)	1' - 9"	1' - 1 1/2"
8FRA1 - 8	1/8" = 1'-0"	(96)	0' - 10 1/2"	0' - 6 3/4"
8FRA3 - 16	3/16" = 1'-0"	(64)	0' - 7"	0 - 4 1/2"
8FRA1 - 4	1/4" = 1'-0"	(48)	0' - 5 1/4"	0' - 3 3/8"
8FRA3 - 8	3/8" = 1'-0"	(32)	0' - 3 1/2"	0' - 2 1/4"
8FRA1 - 2	1/2" = 1'-0"	(24)	0' - 2 5/8"	0' - 1 11/16"
8FRA3 - 4	3/4" = 1'-0"	(16)	0' -1 3/4"	0' - 1 1/8"
8FRA1	1" = 1'-0"	(12)	0' - 1 5/16"	0' - 27/32"
8FRA3	3" = 1'-0"	(4)	0' - 7/16"	0' - 9/32"
8FRA1 - 1	1" = 0'-1"	(1)	0' - 7/64"	0' - 5/64"
8FRA10	1" = 10'	(120)	1' - 1 1/8"	0' - 8 7/16"
8FRA20	1" = 20'	(240)	2' - 2 1/4"	1' - 4 7/8"
8FRA30	1" = 30'	(360)	3' - 3 3/8"	2' - 1 5/16"
8FRA40	1" = 40'	(480)	4' - 4 1/2"	2' - 9 3/4"
8FRA50	1" = 50'	(600)	5' - 5 5/8"	3' - 6 3/16"
8FRA60	1" = 60'	(720)	6' - 6 3/4"	4' - 2 5/8"
8FRA100	1" = 100'	(1200)	10' - 11 1/4"	7' - 3/8"
8FRA200	1" = 200'	(2400)	21' - 10 1/2"	14' - 3/4"
8FRA300	1" = 300'	(3600)	32' - 9 3/4"	21' - 1 1/8"
8FRA400	1" = 400'	(4800)	43' - 9"	28' - 1 1/2"
8FRA500	1" = 500'	(6000)	54' - 8 1/4"	35' - 1 7/8"
8FRA600	1" = 600'	(7200)	65' - 7 1/2"	42' - 2 1/4"