Table of Contents

ARTICLE 1 - GENERAL PROVIONS	1
SECTION 100 SHORT TITLE	1
SECTION 101 PURPOSE	1
SECTION 102 LEGAL BASIS	1
SECTION 103 SCOPE	2
SECTION 104 ADMINISTRATION	2
SECTION 105 SITE IMPROVEMENTS REQUIRED FOR DEVELOPMENT OF LAND	2
A. SITE GRADING & DRAINAGE WATER COLLECTION & DISPOSAL	2
B. STREET AND PARKING LOT PAVEMENT AND RIGHTS-OF-WAY	3
C. POTABLE WATER SUPPLY AND DISTRIBUTION SYSTEM D. WASTEWATER COLLECTION AND DISPOSAL SYSTEM	4 4
E. FIRE PROTECTION	5
F. SIDEWALKS & BIKEPATH	5
G. UNDERGROUND WIRING	5
H. GUARANTEE FOR COMPLETION OF SITE IMPROVEMENTS	6
I. RESIDENTIAL PLOT PLAN SUBMITTALS	6
SECTION 106 PROCEDURE FOR PROCUREMENT OF A PERMIT FOR CONSTRUCTION O	F
SITE IMPROVEMENTS AND/OR PUBLIC UTILITIES	9
A. GENERAL	9
B. PROCEDURE	9
SECTION 107 STANDARDS FOR PREPARATION OF ENGINEERING PLANS AND	
SPECIFICATIONS	14
A. GENERAL	14
B. DETAIL SHEETS	16
SECTION 108 SURVEY AND CONTROL MONUMENTS	16
A. INTENT AND PURPOSE	16
B. REQUIREMENTS	16
C. PRESERVATION OF MONUMENTS	17
ARTICLE 2 DEFINITIONS	18
SECTION 200 RULES OF CONSTRUCTION	18
SECTION 201 TERMS DEFINED	18
ARTICLE 3 SITE GRADING AND DRAINAGE WATER COLLECTION AND DISPOSAL	26
SECTION 301 COLLECTION AND DISPOSAL PLAN	26
SECTION 302 SITE GRADING	26
SECTION 303 SLOPES	27
SECTION 304 WETLANDS AND FLOODPLAINS	28
SECTION 305 RETENTION/DETENTION REQUIREMENTS	29
SECTION 306 SOIL EROSION PERMITS	32
SECTION 307 NPDES STORMWATER PERMITS	33

ARTICLE 4 STANDARDS FOR ENGINEERING DESIGN OF STORM SEWER SYSTEMS	34
SECTION 401 ROADWAY AND PARCEL DRAINAGE	34
SECTION 402 SEWER LOCATION	37
SECTION 403 MATERIAL AND WORKMANSHIP	37
ARTICLE 5 STREET AND PARKING LOT PAVING	38
SECTION 501 DESIGN REQUIREMENTS	38
SECTION 502 MATERIALS AND WORKMANSHIP	40
ARTICLE 6 WATER SUPPLY AND DISTRIBUTION SYSTEM	41
SECTION 601 SYSTEM AND PLAN REQUIREMENTS	41
SECTION 602 WATER MAIN LOCATION	42
SECTION 603 WATER TREATMENT PLANTS	42
SECTION 604 MATERIALS AND WORKMANSHIP	42
ARTICLE 7 WASTEWATER COLLECTION AND DISPOSAL SYSTEM	43
SECTION 701 SYSTEM AND PLAN REQUIREMENTS	43
SECTION 702 SANITARY SEWER MAIN LOCATION	45
SECTION 703 WASTEWATER TREATMENT PLANT	45
SECTION 704 MATERIALS AND WORKMANSHIP	45
ARTICLE 8 SIDEWALKS, DRIVEWAYS, PRIVATE UTILITIES	46
SECTION 801 OTHER SITE IMPROVEMENTS	46
A. SIDEWALKS AND DRIVEWAYS	46
B. OTHER UTILITIES C. BUILDING ELEVATIONS	46 46
D. ENGINEERED SEPTIC FIELDS	47
E. FILLING VACANT LOTS	47
SECTION 802 CONSTRUCTION AND CONSTRUCTION INSPECTIONS	48
ARTICLE 9 VARIANCES	49
SECTION 901 CRITERIA FOR GRANTING	49
SECTION 902 APPLICATION	49
SECTION 903 ENGINEERING BOARD OF APPEALS	49
ARTICLE 10 EFFECTIVE DATE	50
ARTICLE 11 VALIDITY	50
ARTICLE 12 VIOLATIONS AND PENALTIES	50

<u>AP</u>	PENDIX "A" SCHEDULE OF FEES	51
I.	PLAN REVIEW - ADMINISTRATION FEES	51
II.	CONSTRUCTION INSPECTION CHARGES	52
III.	CASH BONDS - UTILITY COMPANIES	52
IV.	FEES	52
AP	PENDIX "B" SCHEDULE OF "STANDARD UTILITY LOCATIONS"	53
ΛP	PENDIX ''C'' PAVEMENT REQUIREMENTS	55
I.	GENERAL	55
II.	RESIDENTIAL AREAS	55
III.	INDUSTRIAL AREAS	55
IV.	COMMERCIAL AND OTHER AREAS - PUBLIC OR PRIVATE STREETS	56
<i>V</i> .	ALL PAVEMENTS	56
VI.	ROAD NOMENCLATURE	57
AP	PENDIX "D" WATER SYSTEM REQUIREMENTS	58
<u> </u>	GOVERNING STANDARDS AND SPECIFICATIONS	58
II.	MATERIALS	58
III.	PIPE CLEARANCE OF ROCKS	64
IV.	HANDLING OF PIPE AND MATERIALS	64
V.	PIPE INSTALLATION	64
VI.	PIPE BEDDING	65
VII.	CONCRETE CRADLE	65
VIII	I. CONSTRUCTION IN FILL SECTIONS	65
IX.	BORING AND CASING	66
<i>X</i> .	JOINT ASSEMBLY	66
XI.	BACKFILLING	68
XII.	HYDROSTATIC TESTING	69
XIII	I. DISINFECTING WATER MAINS	70
XIV	Y. PLACING MAINS IN SERVICE	71

<u>AP</u>	APPENDIX ''E'' SANITARY SEWER SYSTEM REQUIREMENTS	
Ι.	GOVERNING STANDARDS AND SPECIFICATIONS	72
II.	MATERIALS - FORCEMAINS	72
III.	MATERIALS - GRAVITY SEWER	75
IV.	LOCATION OF PROPOSED SEWER	76
V.	EXCAVATION AND PREPARATION OF THE SITE	76
VI.	LAYING OF SEWER	<i>78</i>
VII.	BORE AND CASE FOR SEWER PIPES	79
VIII	CONSTRUCTION IN FILL SECTIONS	80
IX.	PIPE BEDDING	80
<i>X. C</i>	ONCRETE CRADLE	80
XI.	BACKFILLING	81
XII.	SANITARY MANHOLES	83
XIII	EPOXY COATING OF PIPE AND STRUCTURE	86
XIV	TESTING	86
XV.	BARRICADES AND WARNING SIGNS	91
API	PENDIX ''F'' LAPEER TOWNSHIP DIGITAL SUBMISSION REQUIREMENT	92