#### GENERAL UTILITY NOTES:

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH:

- \*STANDARD SPECIFICATIONS FOR WATES AND SEWER MAIN CONSTRUCTION IN ILLINOIS\* FIFTH REFINO, DATED MAY, 5000.
  IDO'T STANDARD SPECIFICATIONS FOR ROAD AND BREDGE CONSTRUCTION, LATEST EDITION.
  CITY OF ELOCOMINGTON V SUBMINISION REGULATIONS, ADOPTRID AUGUST 506.
- 2. VERIFY THE ELEVATION OF POSSIBLE CONFLICTING UTILITIES PRIOR TO CONSTRUCTING PROPOSED WATER MAINS. ANY CONFLICTS MUET IMMEDIATELY BE REOUGHT TO THE ENGINEER'S ATTENTION.
- 3. ALL OPEN EXCAVATIONS SHALL BE PROTECTED WITH SAFETY FENCE, BARRIERS OR BARRICADES IN ACCORDANCE WITH ORDA.
- A CONTRACTOR TO COORDINATE ALL UTILITY CONSTRUCTION WITH THE APPROPRIATE UTILITY COMPANIES.
- IN THE MINIMUM HORECONTAL SEPARATION EXTWEEN THE CLOREST TWO POINTS OF A WATER AND SEWER LINE IS THE MERT OF, THE MINIMUM VERTICAL SERARATION ENTWEEN THE CLOREST TWO POINTS OF A WATER AND SEWEE LINE IS EXCITENT INCIDES OF, WHEN A SEWER LINE CROSSES A WATER MAIN, A LINEMUM OF 15 SEPARATION IS REQUERE FLUES THE REQUERED ENCASEMENT OVER ON UNDER THE WATER MAIN. SEE THE ADO'S ENTREMENDED "FINANCES PERIFICIANS FOR WATER AND SEWEE LINE AND CONSTRUCTION IN ILLINGS FOR ENCASEMENT EQUIDEMENT AND THE WATER SEARCH COMER SEARCH STREE SEARCH COMER THE WATER CONSTRUCTION IN ILLINGS FOR ENCASEMENT EQUIDEMENT AND THE WATER SEARCH SEA
- 6. THE CONTRACTOR WILL MAINTAIN A RECORD DRAWING SET WITH WITNESS DIMENSIONS TO ALL CONNECTIONS. THESE DRAWINGS WILL BE SUBMITTED TO THE ENGINEER PRIOR TO FINAL ACCEPTANCE.

### WATER MAIN NOTES:

1. ALL WATER MAINS SHALL HAVE A MINIMUM COVER OF 4'-0" ABOVE THE TOP OF FIFE.

#### 2. ALL HYDRANT LEADS SHOULD BE 6" DUCTILE IRON SPECIAL CLASS 52

- 3. FIRE HYDRANTS, VALVES, TEES AND HYDRANT LEADS SHOWN IN THE PLAN DRAWINGS AS "FIRE HYDRANT, VALVE AND TEE ASSEMBLY" SHALL BE PAID FOR INDIVIDUALLY AS ENUMERATED IN THE SCHEDULE OF PRICES. 90<sup>™</sup>/<sub>40</sub>. ELBOWS SHOWN IN THE PLAN DRAWINGS AS "PARALLEL MOUNT FIRE HYDRANT, VALVE AND TEE ASSEMBLY" SHALL ALSO BE PAID FOR INDIVIDUALLY.
- 4. DIMENSIONS SHOWN ARE TO CENTERLINE OF PIPE OR FITTING.

# 5. WATER MAIN TRENCHES AND WATER SERVICE UNDER EXISTING FAVEMENT AND SIDEWALKS SHALL BE BACKFULLED WITH TRENCH BACKFUL UP TO THE SURFACING SUB GRADE ELEVATION.

- BARAILED VIEWS INTER THANKIN MARKING OF UT THE BURNALMY BUS WHALE LEVATION. 6. A \*12 THWN SINCLE STRAND ELECTRIC CABLE SUITABLE FOR DIRECT BURNAL SHALL BE INSTALLED ON ALL WATER MAIN. THE CABLE SHALL BE TAPED OR ATTACHED TO THE PIPE IN AN APPROVED MANNER DURING INSTALLATION AND PRIOR TO BACKFILLING. TWO FEEL OF SLACK SHALL BE PROVIDED AT ALL VALVE BOX OR THE HYDRANTS. THE SLACK SHALL BE WRAPPED AROUND THE VALVE BOX OR THE HYDRANT AT FINISHED GRADE.
- REFER TO SHEET C5.1 FOR ADDITIONAL WATER MAIN NOTES, INCLUDING SPECIFIC CITY OF BLOOMINGTON WATER MAIN MATERIAL STANDARDS.

## TRENCH, BEDDING AND BACKFILL NOTES:

- TRENCH WIDTH REQUIREMENTS BELOW THE TOP OF THE FIPS SHALL NOT BE LESS THAN 13 INCHES NOR MORE THAN 15 INCHES WIDER THAN OUTSIDE SUBANCE OF ANY PUPS, CONDUCT OR CAREAR AND SHALL BE THE LEAST PRACTICAL WIDTH TRAY WILL ALLOW FOR COMPACTION OF TEXCHE AUXIAL.
- 2. TERNCH STABILIZATION MATERIAL IF REQUIRED, SHALL BE CRUSHED BOCK OR OTHER APPROVED MATERIAL WITH 100% PARSING THE 5" ENTYS AND 39%-69% PARSING THE 1" REVYS THE MATERIAL SHALL HAVE A MAXMUM PREEZE-THAW LOSS OF 11% WHEN TESTED IN ACCORDANCE WITH LABORATORY THEST METHOD 211 METHOD 0. THE FLASTICITY INDEX SHALL NOT EXCHED 8.
- 8. ACCURATELY GRADE TRENCH BOTTOM TO PROVIDE UNUFORM BEARING AND SUPPORT FOR EACH SECTION OF FIPE ON REDUKING MATERIAL AT FYRAT JOINT ALONG ENTIRE LENGTER EXCEPT WHERE NEDERSANT TO EXCLANATE FOR BELL HOLES, FROFER SEALING OR FIPE JOINTS OR OTHER REQUIRED CONFICTIONS. DIG SELL HOLES AND DEFENSIONES FOR JOINTS AFTER TERNCH BOTTOM HAS BEEN GRADED, DEG NO DERFER, LONGE, OR WIDER THAN NEEDED TO MAKE PROFER JOINT CONNECTOR.
- 4. PLACE TRENCH AND STRUCTURE EXCAVATION BACKFILL IS INCRESS OR MORE ABOVE TOP OF FIPE IN 6 INCH MAXIMUM LIFTS AND COMPACT TO 85% STANDARD PROCTOR DRY DENNETY (AFTM D686) IN URSURANCED AREAS AND TO 85% STANDARD PROCTOR DRY DENNETY IN URSURES ABASE. DRYALLA A MUNIMUM CUBHINN OF 9 FRET OF COMPACTED BACKFILL ABOVE FIPE ENVELOPE DEFORE URING HEAVY COMPACTION EQUIPMENT.
- 5. GEMNULAR BEDDENG AGGREGATE FOR WATER MAIN FIFE SHALL MEET THE FOLLOWING GRADATION: EGYNE SECE 1 12 1 24 1 26 4 4 5 PARENN: 100 56-100 56-100 264 10-65 0-30 0-6
- 8. GRANULAR TRENCH RACEFUL SHALL MEET THE FOLLOWING GRANULAR THE STRENCH RACEFUL SHALL MEET THE FOLLOWING SHATE SEC. 1 96 4 8 80 200 5 PASSING: 100 85-75 20-60 15-40 0-39
- 7. HAND PLACE AND COMPACT BACKFILL MATERIAL TO 13 INCHES ABOVE TOP OF PIPE TO 56% STANDARD PROCTOR DRY DENSITY (ASTM D668) IN SUBFACED AREAS AND TO 50% STANDARD DRY DENSITY IN UNSURFACED AREAS.

8. ALL TRENCH BACKFILL IN TRENCHES SHALL BE JETTED

#### IDOT STANDARDS

1 701906-03-LANE CLOSURE 2L 2W SLOW MOVING OPERATIONS DAY ONLY FOR SPEEDS GREATER THAN OR ROUAL TO 45 MPH.

- 2 201601-06-JIRBAN LANE CLOSURE 21. 2W INDIVIDED
- 8. 701901-01-TRAFFIC CONTROL DEVICES.
- 4. 701411-06-LANE CLOSURE MULTILANE, AT ENTRANCE OR EXIT RAMPS. FOR SPEEDS GREATER THAN OR EQUAL TO 46 MPH. 6. 701601-06-URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN.
- 6. 701701-06-URBAN LANE CLOSURE, MULTILANE INTERSECTION.

#### SURFACE RESTORATION NOTES:

- 1. ALL DEFUNRED AREAS NOT PAVED OR HARD SUBFACE ON THE SITE SHALL ESCHIVE TOPSOLL AS NECESSARY TO ESTABLISH GROWTH OF GRAME UTILIZING REMETING TOPSOL SHALL BE AN ACCEPTABLE METHOD OF SUBFACE EXECUTATION PROVIDED THE CLAY CONTENT OF THE SOLL BAY TO SUPFICIENT HOLT OF AVEXATING GOVIT, HIE MENNERSE SHALL MARK THE FINAL DETERMINATION OF THE SUITABLET OF THE ON-HIE SOLL SCALET AREAS TO ESCHIVE TOPSOLL TO A IMPITE OF #. GRAVEN ALL STONES, WOOD AND OTHER EXEMIL MARKET HARK F FROM REALS TO RECEIVE TOPSOLL ON OF COMPACT FORGOL.
- 2. ALL DISTURBED YARD & LAWN AREAS SHALL BE SERDED ACCORDING TO LD.O.T. ARTICLE 250 USING CLASS 1 OR CLASS II MIXTURE AS APPROPRIATE FOR THE CONDITIONS.
- 8. SEEDED AREAS SHALL BE MULCHED IN ACCORDANCE WITH LD.O.T. ARTICLE 261, METHOD 1 OR METHOD 2.
- 4. SODDING OR HYDRO SEEDING SHALL BE CONSIDERED SUITABLE ALTERNATES.
- 6. THE COST FOR SURFACE RESTORATION SHALL BE INCLUDED IN THE COST FOR THE VARIOUS WATER MAIN PAY ITEMS.
- 4. COST FOR PAVEMENT REPAIR SHALL BE INCLUDED IN THE COST FOR THE VARIOUS WATER MAIN PAY ITEMS.

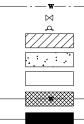
#### UTILITY NOTE:

THE LOCATIONS OF UTILITY MANS, STRUCTURES, AND SERVICE CONNECTIONS FLOTTED ON THIS DRAWING ARE APPROXIMATE ONLY AND THESE OFFICIENES FROM RECORDER MARE NAVABLARS FO SERVE-HALTERY, INC. AND AS MARED IN THE FILL ALL MARE THE DESCRIPTION OF A MARKET NO. OFFICIENT ALL MORE OFFICIENT AND AND THE DESCRIPTION AND SERVICE CONNECTIONS FOR

#### PAVEMENT NOTES:

1. THE CONTRACTOR SHALL REPARE THOSE PAYEMENT AREAS IN THE ROADWAY EXCAVATED OR DAMAGED AS A RESULT OF WATER MAIN CONSTRUCTION OFFEATIORS SUCH WORE SHALL SE IN ACCORDANCE WITH ARTICLE 44. THE OFFEATION SHOLLD ALSO INCLUDE APPLICATION OF FRAME SOLF PAGE SOLF PAGE TO FLAGMENT OF MALA, PAGE OF AS A SERANATE FAIT THESE THE MALE ANALYLE COMPOSITION UTILIZED FOR FAVERARY FATCHING SHALL SE SURFACE COURSE, MAY'D', NYN, FAVERENY FATCHING SHALL SE FLAGM WITH THE REISTING BOARY FACER.

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	STORM MANHOLE				
	FIRE HYDRANT WATER VALVE				
	POWER POLE				
	DOWN GUY				
	51GN				
	UNDERGROUND ELECTRIC				
<u> </u>	STORM SEWER WATER MAIN				
	SANITARY MANHOLE				
	CONIFEROUS TREE WITH DIA.				
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	GUARD POST				
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NOTES & DETAILS