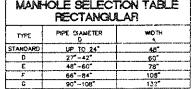


	MANHOLE SELECTION TABLE - CIRCULAR					
TYPE	PIPE DIAMETER 0	RISER DIAMETER	MAXIMUM PIPE SIZE FOR MAIN LINE	MAXIMUM PIPE SIZE		
CRACINATE	UF TO 24"	45°	24"	24"		
н	24"36"		36*	36"		
J	24"36"	60°	36*	30"		
К	36"~48"	72*	46	36*		
Ļ	48"~54"	95"	54"	48"		
м	54°~72°	102*	72*	66"		
N	72"-84"	108*	84"	72"		

STORM SEWER MANHOLE - INLET

NOT TO SCALE



STANDARD BEDDING DETAIL

NOT TO SCALE

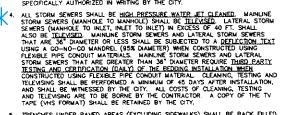
-CURB INLET, FRAME & CURB BOX TO BE AS SHOWN ON CONSTRUCTION DRAWNOS WITH CASTINGS SEALED TO THE STRUCTURE WITH BITUMASTIC SEALANT, CASTING TYPE IS AS FOLLOWS: USE NEEDHAH R-3246 A OR APPROVED EQUAL FOR INLETS IN A SUMPED CONDITION. USE NEEDHAH R-3246 AL OR APPROVED EQUAL FOR INLETS OM GRADE. 7XVF 4" MAXMUM MASONRY ADJUSTMENT RING WITH PARGING. -MANHOLE STEPS TO BE PS-1-PF BY MA INDUSTRIES, PEACHTREE CITY, GA, OR APPROVED EQUAL, STEP ALIGNMENT TO BE MAINTAINED UNIFORM AND VERTICAL THROUGHOUT THE NOTE: SEE STORM SEWER MANHOLE SECTIONS FOR ADDITIONAL DETAILS. WHEN CONSTRUCTING A MANHOLE OVER AN EXISTING SEWER, SEWER PIPE TO BE LAID THROUGH THE MANHOLE WITH THE UPPER PORTION REMOVED. WHEN CHANGES IN DIRECTION, GRADE, OR ELATION ON OF PERMIT CARRYING A PIPE THROUGH A MANHOLE, THE BENCH W SHALL BE FORMED TO PERMIT A SMOOTH TRANSITION OF FLOW. STANDARD RISER SECTIONS.
SEE MANHOLE SELECTION
TABLE FOR SIZE
REQUIREMENTS. -GROUT PIPE IN PLACE. NOTE: PRE CAST CONCRETE MANHOLES SHALL CONFORM TO ASTM C-478 D/2 J J 1" MIN. -PRE CAST CONCRETE BASE TO BE INTEGRAL WITH PRE CAST RISER SECTION, CAST-IN-PLACE OR SEPARATE PRE CAST FLAT BASES MAY BE USED ONLY WITH THE PRIOR WRITTEN APPROVAL OF THE CITY.

SEE PLAN, PROFILE SHEETS FOR PIPE DIAMETER AND MATERIAL. REPLACE SURFACE IN KIND, FINISH GRADE STORM SEWER MANHOLE PLAN NOT TO SCALE - STANDARD NATIVE EXCAVATED MATERIAL, FREE OF AGGREGATE GREATER THAN 3" DIAMETER USED FOR BACK FILL PURPOSES EXCEPT THROUGH TRAVELED WAYS WHICH SHALL BE GRANILAR TO SURFACE. GRANULAR BACK FILL MATERIAL PER INDIANA DEPARTMENT OF TRANSPORTATION "STANDARD SOSCIENCE THOSE" I LATET EDITION. SECTION 211. CLASS 1 BEDDING SHALL BE #8 GRAVEL AGGREGATE FOR FLEXIBLE CONDUIT, AND GRADE "B" SPECIAL BORROW FOR STRUCTURAL BACK FILL FOR RIGID (CONCRETE) CONDUIT, PER THE INDIANA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATION", LATEST EDITION, SECTION 904, OR OTHER APPROPRIATE MATERIAL APPROVED BY THE ENGINEER. -SEE PLAN, PROFILE SHEETS FOR PIPE DIAMETER AND MATERIAL 70-0-UNDISTURBED OR STABILIZED MATERIAL. MINIMUM TRENCH WIDTH FOR FLEXIBLE CONDUIT. MAXIMUM TRENCH WIDTH FOR RIGID CONDUIT.

STORM SEWER NOTES

- STORM SEWER PIPE AND APPURTENANCES SHALL CONFORM TO CITY OF LAFAYETTE SPECIFICATIONS FOR DESIGN AND QUALITY OF CONSTRUCTION, AND CITY OF LAFAYETTE ORDINANCE NO. 89-38, THE LAFAYETTE STORM DRAINAGE AND SEDIMENT CONTROL ORDINANCE", FOR DESIGN AND MATERIALS.
- ORDINANCE, FOR DESIGN AND MATERIALS.

 CONSTRUCTION PROCEDURES AND MATERIALS SHALL COUPLY WITH APPLICABLE SECTIONS OF THE INDIANA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, LATEST EDITION PIPE AND PITTINGS USED IN STORM SEWER CONSTRUCTION SHALL BE DUCTILE IRON PIPE (AWMA C-151), CONCRETE PIPE (ASTM C-76), PVC PIPE (4"-24" ONLY, ASTM 3034-SDR 35, ASTM F-679, OR ASTM F-794), HOBAS PIPE (24" AND LARGER ONLY, ASTM D3262, D4161, D2412, PIBERGLASS SLEEVE COUPLINGS USING ELASTOMERIC SEALING CASKETS MADE OF EPOM COMPOUND PER ASTM D 4161), ADS N-12 (36") AND ADS N-120 (42"-48" ONLY, DUAL WALL SINGLE MOCH PIPE WITH WATER TIGHT INTEGRAL BELL COUPLERS (AASHTO M-294, ASTM F-667), OTHER PIPE AND PITTINGS NOT SPECIFIED HERCIM MAY BE USED ONLY WHEN SPECIFICALLY AUTHORIZED IN WRITING BY THE CITY.



- TRENCHES UNDER PAYED AREAS (EXCLUDING SDEWALKS) SHALL BE BACK FILLED WITH GRANULAR MATERIAL PER INDIANA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS 1999 EDITION SECTION 21THAN COMPACTED IN LIFTS, GRANULAR MATERIAL TO EXTEND FIVE FEET BEYOND THE LIMITS OF THE PAYED AREA WITH A 1:1 SLOPE TO THE
- CONFIGURATION OF INLETS IN PRIVATE PARKING OR DRIVING AREAS MAY BE VARIED TO ACCOMMODATE THE DIMENSIONS OF THE CASTINGS, PRIOR WRITTEN APPROVAL OF THE CITY IS REQUIRED.
- 18" VERTICAL SEPARATION AND 10"-0" HORIZONTAL SEPARATION TO BE MAINTAINED BETWEEN WATER MAINS, HYDRANTS AND SEWERS (SANTARY AND STORM).
- SEWER PERMIT AND CITY INSPECTION REQUIRED FOR ALL CONNECTIONS
 TO STORM OR SANITARY SEWER SYSTEMS SEWER PERMIT REQUIRED ON
 SITE DURING ANY SEWER CONSTRUCTION
- ALL TAPS TO CONCRETE PIPE SHALL BE MADE WITH BOOT AND SADDLE CONNECTORS
- 10. ALL INLETS SHALL BE DEPRESSED 0.1 FT. BELOW PLAN GRADE.
- 11. ALL SEWER LINES SHALL HAVE O.1 FT. DROP THROUGH MANHOLES.
- 12. CASTINGS SHALL BE CENTERED ON OPENING IN STRUCTURES.
- 13. MINIMUM 4" OPENING REQUIRED ON BACK OF CURB INLET CASTING.
- TOP OF MANHOLE FRAMES TO BE SET AT PROPOSED YARD OR SIDEWALK CRADE WHEN LOCATED IN FRONT AREA OF LOT OR RIGHT OF WAY.
- BICYCLE SAFE GRATES REQUIRED IN PAVED AREAS EXCLUDING, PAVED FLOW LINES IN SWALES OR DETENTION AREAS
- FLOW UNES IN SWALES OR DETENTION AREAS

 16. ANIMAL GUARDS SHALL BE PERMANENTLY INSTALLED ON ALL PIPE END SECTIONS 18° OR LARGER IN DIAMETER, QUARDS SHALL HAVE A MAXIMUM CLEAR OPENING OF A° AND BE REMOVABLE.

 17. IF ANY EXISTING FIELD TILE SYSTEMS ARE ENCOUNTERED DURING THE CONSTRUCTION PROCESS THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECONSTRUCTION THE TILE TO ITS ORICINAL CONDITIONS OR CONNECT IT INTO THE PROPOSED STORM DRAINAGE SYSTEM

 18. WHENEVER PROPRIETARY EQUIPMENT IS SPECIFIED OR APPROVED "EQUAL IS IMPLED ALL, PROPOSALS FOR SUBSTITUTION SHALL BE SUBMITTED TO THE CITY IN WRITING FOR THEIR APPROVAL.

TELEVISION INSPECTION CRITERIA

STORM SEWERS

SEWERS SHALL BE "FLOODED" BEFORE TELEVISION INSPECTION. THE IMAGE SHALL BE CLEAR ENOUGH TO ENABLE THE CITY REPRESENTATIVE AND OTHERS VIEWING THE MONITOR TO EASILY EVALUATE THE INTERIOR CONDITION OF THE PIER.

ALL UNACCEPTABLE CONDITIONS FOUND DURING TELEVISION INSPECTION MUST BE CORRECTED BY THE CONTRACTOR AND RETELEMISED. UNACCEPTABLE CONDITIONS ARE CONDITIONS THAT ADVERSELY EFFECT THE ABILITY OF THE SYSTEM TO FUNCTION AS DESIGNED OR TO BE PROPERLY MAINTAINED AND MAY INCLUDE, BUT ARE NOT UMITED TO, THE FOLLOWING:

60910026

STATE OF

-CONCRETE BENCH WALL TO BE SHAPED APPROXIMATELY AS SHOWN TO DRAIN AND DIRECT FLOW BENCH WALL RADIUS TO START A MINIMUM OF 5" FROM END OF PIPC, FIELD MODIFICATION OF PIPC CAST BENCH WALLS TO BE PERFORMED UNDER DIRECTION OF CITY.

- 6" MIN.

-STANDARD MANHOLE RISER SECTION

MISALIGNED OR DEFORMED PIPE DEBRIS IN LINE INFILTRATION/EXFILTRATION EXCESSIVE GAPS AT JOINTS

BELLIES OR SACS WITH A DEPTH GREATER THAN OR EQUAL TO 10% (OR A MAXIMUM OF 3") OF PIPE DIAMETER AND/OR A LENGTH GREATER THAN 25 FEET

DETAILS AS TO REQUIRED TELEVISION EQUIPMENT AND REQUIRED TELEVISION INSPECTION REPORT ARE AVAILABLE FROM THE CITY ENGINEER'S OFFICE.

PROJECT NAME	PROJECT SHEET NUMBER
	of

CITY OF LAFAYETTE

(800)	382-5544	HOLEY MOLEY	20 NORTH SIXTH STREET	JUNE 200
(765)	476-4471	CITY ENGINEER	LAFAYETTE, INDIANA 47901	SHEET
(765)	476-4550	WATER POLLUTION CONTROL-SEWERS		10
(765)	476-4581	WATER WORKS	STORM SEWER	OF
(765)	476-4400	FIRE DEPT.	TYPICAL DETAILS and NOTES	12
(765)	476-4442	POLICE DEPT.		14