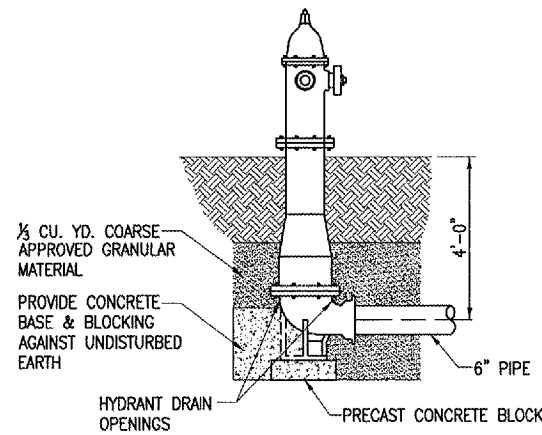


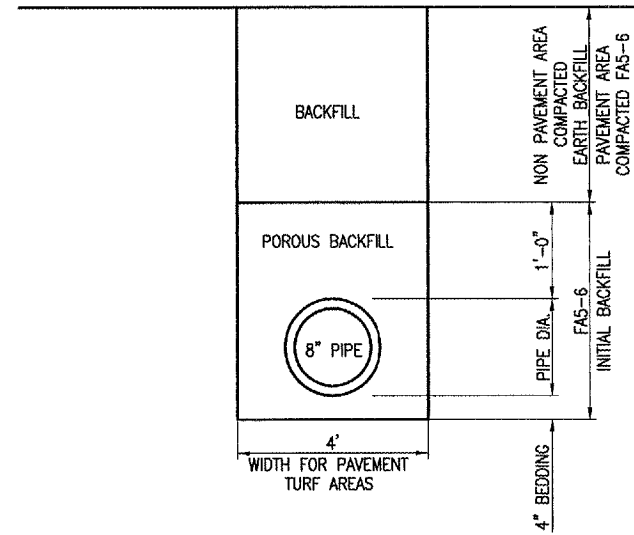
TYPICAL TO ALL FIRE HYDRANTS
NOT TO SCALE



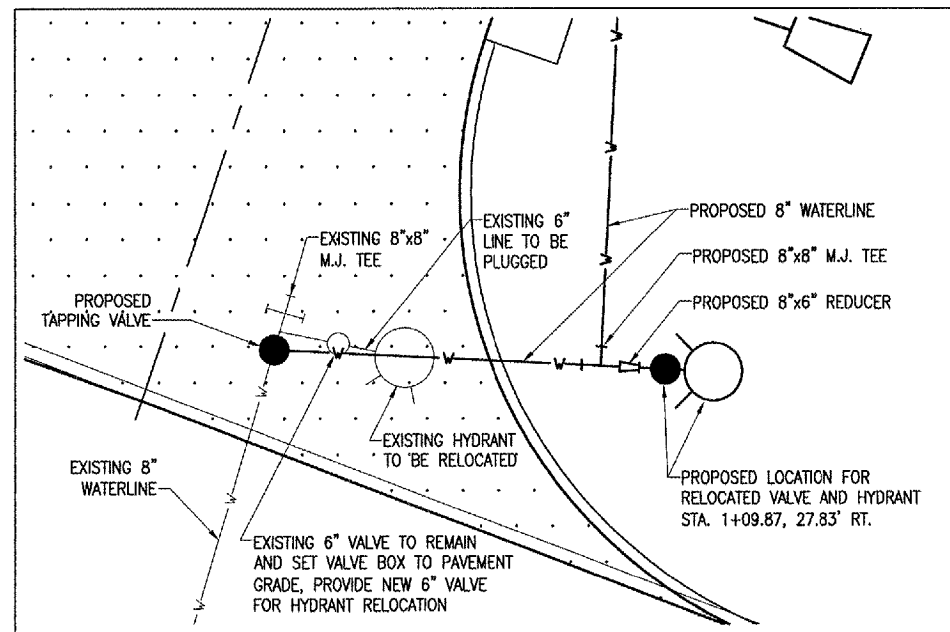
HYDRANT INSTALLATION

NOTE

SEE FIRE HYDRANT INSTALLATION DETAIL IN THE SPECIFICATIONS.



TRENCH BACKFILL DETAIL
"NOT TO SCALE"



DETAIL "A"
SCALE: 1" = 5'

SPECIFICATION - WATER MAIN CONSTRUCTION

THE WATER MAIN WITH APPURTENANCES SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS", CURRENT EDITION, (HEREINAFTER REFERRED TO AS "STANDARD SPECIFICATIONS"); THE VILLAGE OF BATHALTO WATER UTILITY AND THE FOLLOWING SPECIAL PROVISIONS.

- NO WORK IS TO BEGIN UNTIL THE APPROVED ILLINOIS ENVIRONMENTAL PROTECTION AGENCY OPERATORS PERMIT IS RECEIVED BY THE VILLAGE OF BATHALTO WATER UTILITY.
- NO EXCAVATION FOR OR INSTALLATION OF WATER MAINS SHALL BEGIN UNTIL THE PROJECT IS "STAKED" IN THE FIELD BY THE CONTRACTOR OR HIS REPRESENTATIVE (STAKING INCLUDES PIPE LINE STAKES, PIPE GRADE STAKES, FINISHED GRADE STAKES, FITTING LOCATIONS, ETC.).
- THE CONTRACTOR SHALL GIVE THE WATER UTILITY 24 HOURS ADVANCE NOTICE OF THE DELIVERY OF WATER MAIN MATERIALS OR INSTALLATION OF WATER MAINS.
- ALL MATERIALS AND IT'S INSTALLATION ARE TO BE INSPECTED BY THE VILLAGE OF BATHALTO WATER UTILITY INSPECTOR.
- IF ALL REQUIREMENTS OF THE VILLAGE OF BATHALTO WATER UTILITY ARE NOT MET, A "SHUT-DOWN" OF THE PROJECT MAY RESULT UNTIL ALL CRITERIA ARE SATISFIED.
- WATER MAIN PIPE SHALL BE DUCTILE IRON AND CONFORM TO ANSI/AWWA-C151/A21.51, THICKNESS CLASS 52. PIPE SHALL BE CEMENT LINED AND CONFORM TO ANSI/AWWA-C111/A21.11.
- JOINTS FOR D.I.P. WATER MAIN SHALL BE PRESSURE SLIP JOINTED WITH ELASTOMERIC SEALS (GASKETS) CONFORMING TO ANSI/AWWA-C111/A21.11.
- WATER MAIN AND SERVICE PIPE SHALL BE INSTALLED WITH A 4 FT - 0 IN. MINIMUM DEPTH OF COVER.
- FITTINGS FOR WATER MAIN PIPE SHALL BE MECHANICAL JOINT CAST IRON OR DUCTILE IRON CONFORMING TO ANSI/AWWA-C110/A21.10.
- GATE VALVES FOR HYDRANTS SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH SECTION 42 OF THE STANDARD SPECIFICATIONS.
- HYDRANTS SHALL BE MUELLER CENTURION A-423, 5 1/4 THREE-WAY WITH A 6" GATE VALVE LOCATED WITHIN 3 FEET OF HYDRANT. HYDRANTS SHALL BE OF A MANUFACTURER AND PATTERN APPROVED BY THE VILLAGE OF BATHALTO WATER UTILITY. AS A MINIMUM, THE BRANCH TO A HYDRANT SHALL CONSIST OF (1) AN ANCHORING TEE, (2) MECHANICAL JOINT GATE VALVE AND (3) AN ANCHORING COUPLING OR AN ANCHORING PIPE.
- INSTALLATION OF HYDRANTS SHALL BE IN ACCORDANCE WITH SECTION 45 OF THE STANDARD SPECIFICATIONS EXCEPT POURED CONCRETE SHALL NOT BE USED AS A THRUST BLOCK.
- PRESSURE TESTING OF WATER MAINS SHALL BE IN ACCORDANCE WITH SECTION 41-2.13 OF THE STANDARD SPECIFICATIONS AND UNDER THE DIRECTION OF THE VILLAGE OF BATHALTO WATER UTILITY.
- DISINFECTION OF WATER MAINS SHALL BE IN ACCORDANCE WITH SECTION 41-2.14 OF THE STANDARD SPECIFICATIONS AND UNDER THE DIRECTION OF THE VILLAGE OF BATHALTO WATER UTILITY.
- NO DEVIATION OF THE REQUIREMENT FOR THE SEPARATION OF WATER MAINS AND WATER SERVICES FROM STORM AND SANITARY SEWERS AS STATED IN SECTION 41 OF THE STANDARD SPECIFICATIONS WILL BE PERMITTED. SEE STANDARD DRAWING 18 THROUGH 24 FOR SPECIFIC DETAILS TO MEET THESE REQUIREMENTS AT VARIOUS LOCATIONS.
- MATERIALS AND INSTALLATION TO COMPLETE THIS PROJECT AS SHOWN IN THE PLAN AND SPECIFICATIONS SHALL BE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS.
- SEE STANDARD SPECIFICATIONS FOR THRUST BLOCK LOCATIONS.

GENERAL NOTES

THE EXISTENCE AND LOCATION OF UNDERGROUND FACILITIES SHOWN ON THESE PLANS WERE OBTAINED BY FIELD INVESTIGATION AND SEARCH OF AVAILABLE RECORDS TO THE BEST OF OUR KNOWLEDGE. THE CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT ANY EXISTING FACILITY SHOWN HEREON AND ANY OTHER WHICH IS NOT OF RECORD OR NOT SHOWN ON THESE PLANS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THEIR EXACT LOCATION FROM THE UTILITY COMPANIES AND BY FIELD INSPECTION (J.U.L.I.E.).

DATE	REVISION	BY

ST. LOUIS REGIONAL AIRPORT



EAST ALTON, ILLINOIS

ILL. PROJ.: ALN-3355

HEL Project No. 837-04RDD	TLW	03/08/04
File Name R-131WLDWG	TLW	03/08/04
Scale NO. TO SCALE	WUM	06/23/04
Date 03/08/04		
LAYOUT		
DRAWN		
REVIEWED		



Hanson Professional Services Inc.
1825 South Main Street
Springfield, Illinois 62703-2886
Offices Nationwide

CONSTRUCT T-HANGAR
ACCESS ROAD

PROPOSED
WATERLINE DETAILS