

GENERAL NOTES:

- EXISTING SITE IMPROVEMENTS DISTURBED OUTSIDE THE DESIGNATED CONSTRUCTION AREAS ARE TO BE REPLACED WITH EQUAL OR BETTER CONSTRUCTION AT THE EXPENSE OF THE CONTRACTOR. EVERY EFFORT SHALL BE MADE TO MINIMIZE SUCH DISTURBANCES. CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID DAMAGE TO EXISTING CONSTRUCTION AND UTILITIES TO REMAIN AND SHALL REPAIR DAMAGE CAUSED BY THE WORK AT NO ADDITIONAL COST TO THE OWNER.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN DRAINAGE FLOWS AT ALL TIMES DURING THE PERFORMANCE OF THE WORK. DAMAGE RESULTING FROM IMPROPER MAINTENANCE OF DRAINAGE SHALL BE IMMEDIATELY REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. COST OF MAINTAINING FLOWS IS INCIDENTAL TO THE CONTRACT.
- THE CONTRACTOR SHALL TAKE NOTE OF ALL EXISTING CONDITIONS AND BE PREPARED TO MOVE OR DISPOSE OF OBJECTS OR MATERIALS WITHIN THE LIMITS OF THE PROJECT. SUCH WORK SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE.
- THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING AND NEW DIMENSIONS WITH FIELD CONDITIONS PRIOR TO BIDDING, FABRICATION AND CONSTRUCTION AND MAKE MINOR ADJUSTMENTS AS NECESSARY AND NOTIFY THE ENGINEER OF ANY CONDITIONS THAT MAY AFFECT THE OUTCOME OF THE WORK.
- CONTRACTOR SHALL COORDINATE ALL WORK WITH THE OWNER, ENGINEER, AND OTHER TRADES THROUGHOUT THE PROJECT.
- CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL AND SIGNAGE IN ACCORDANCE WITH CONSTRUCTION STANDARDS AND SPECIFICATIONS OF ALL LOCAL GOVERNING AGENCIES, THE NATIONAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND IDOT SUPPLEMENT TO THE NATIONAL MUTCD AS DETERMINED BY THE ENGINEER. ACCESS TO PROPERTIES AND ENTRANCES SHALL BE PROVIDED BY THE CONTRACTOR AT ALL TIMES AND COORDINATED WITH THE OWNER, INCLUDING ANY INTERRUPTION OF ACCESS TO THE SITE.
- THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION PRIOR TO ANY WORK AND MAINTENANCE THROUGHOUT THE PROJECT OF ALL NECESSARY SEDIMENT AND EROSION CONTROL MEASURES AND MODEL BEST MANAGEMENT PRACTICES (BMP) FOR LAND DISTURBANCE. THE CONTRACTOR IS RESPONSIBLE FOR PREVENTING EROSION OF THE SOIL EXPOSED BY DISTURBANCE DUE TO HIS/HER OPERATIONS. THE CONTRACTOR SHALL CONSTRUCT SAID EROSION CONTROL MEASURES IN ACCORDANCE WITH ARTICLES 280.01 TO 280.05 OF THE IDOT STANDARD SPECIFICATIONS, PER IEPA STANDARDS AND SPECIFICATIONS, PROJECT SPECIFICATIONS AND AS DIRECTED ON THE PLANS. ADDITIONAL MEASURES MAY BE REQUIRED AS DIRECTED BY ALL LOCAL GOVERNING AGENCIES, IEPA, IDOT AND/OR ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ALL EROSION CONTROL MEASURES AND REPAIR OF ANY ERODED AREAS AFTER PROJECT ACCEPTANCE AND VEGETATION IN ALL LAWN DISTURBED AREAS HAS BEEN ESTABLISHED. NO ADDITIONAL COMPENSATION IS ALLOWED FOR TEMPORARY EROSION CONTROL. TEMPORARY EROSION CONTROL MEASURES WILL BE USED TO CORRECT CONDITIONS THAT DEVELOPED DURING CONSTRUCTION THAT WERE UNFORESEEN DURING THE DESIGN STAGE OR, THAT ARE NEEDED TEMPORARILY TO CONTROL EROSION THAT DEVELOPS DURING NORMAL CONSTRUCTION PRACTICES.
- ALL CONSTRUCTION AND MATERIALS USED SHALL CONFORM TO THE CONSTRUCTION STANDARDS AND SPECIFICATIONS OF ALL LOCAL GOVERNING AGENCIES, CITY OF HILLSBORO, IEPA, AWWA, ASTM, IDOT, THE NATIONAL MUTCD, AND THE CURRENT APPROVED "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES" (ADAAG).
- NO WORK SHALL OCCUR ON THE SITE UNTIL ALL NECESSARY PERMITS ARE SECURED WITH ALL LOCAL GOVERNING AGENCIES. SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSTALLED AND FUNCTIONING BEFORE ANY PERMIT WILL BE ISSUED. PERMITS AND LICENSES NECESSARY FOR THE PROCESSION OF WORK SHALL BE SECURED AND PAID FOR BY THE CONTRACTOR.
- ALL DISTURBED AREAS AND LAWN AREA, EXCLUDING PAVED AND BUILDING AREAS, SHALL BE GRADED, SEEDED, FERTILIZED, MULCHED AND STRAWED WITHIN 7 DAYS FROM THE COMPLETION OF GRADING OPERATIONS OR SUSPENSION OF WORK AS DIRECTED BY THE ENGINEER IN ACCORDANCE WITH SECTIONS 250 AND 251 OF THE IDOT STANDARD SPECIFICATIONS, IEPA STANDARDS AND SPECIFICATIONS, AND PROJECT SPECIFICATIONS. SEEDING SHALL BE CLASS 1 LAWN MIXTURE.
- HOT MIX BITUMINOUS MATERIALS SHALL NOT BE PLACED ON EXISTING BITUMINOUS/CONCRETE SURFACES OR ON AGGREGATE BASES WITHOUT THE APPLICATION OF BITUMINOUS MATERIALS PRIME COAT.
- ALL TEMPORARY AGGREGATE PLACED BY THE CONTRACTOR SHALL BE REMOVED, GRADED, SEEDED, FERTILIZED, MULCHED AND STRAWED AT THE COMPLETION OF THE CONTRACT AS DIRECTED BY THE ENGINEER.
- STORE TOPSOIL ONSITE AT AN APPROVED LOCATION AS DIRECTED BY THE ENGINEER AND OWNER. EXCESS TOPSOIL SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR AS NECESSARY AT NO ADDITIONAL COST TO THE OWNER. ANY EXCAVATED MATERIAL THAT IS APPROVED TO BE STORED ON SITE SHALL BE TRANSPORTED TO THE STORAGE SITE BY THE CONTRACTOR AND SHALL BE PROTECTED AND STABILIZED BY SEEDING OR OTHER APPROVED METHODS TO PREVENT EROSION AND SEDIMENT RUNOFF.
- ANY PROPERTY CORNERS OR OTHER PERMANENT SURVEY CONTROL MONUMENTS DISTURBED BY CONSTRUCTION SHALL BE VERIFIED AND/OR RESET AT THE CONCLUSION OF THE PROJECT CONSTRUCTION BY A PROFESSIONAL LAND SURVEYOR LICENSED IN THE STATE OF MISSOURI AND EMPLOYED BY THE CONTRACTOR. WRITTEN VERIFICATION SHALL BE PROVIDED TO THE OWNER, THROUGH THE ENGINEER, THAT ALL SAID EXISTING PROPERTY CORNERS AND/OR PERMANENT SURVEY CONTROL MONUMENTS SHOWN IN THE CONSTRUCTION PLANS HAVE BEEN PROTECTED AND/OR RESET.
- RIGHT-OF-WAYS, PROPERTY LINES AND TOPOGRAPHY SHOWN HEREON HAVE BEEN TAKEN FROM THE BEST AVAILABLE RECORDS AND MUST BE VERIFIED BY THE CONTRACTOR TO HIS OWN SATISFACTION.
- THE CONTRACTOR WILL COORDINATE ANY INTERRUPTION OF PARCEL OWNERS ACCESS WITH THEIR PARCEL (I.E. INSTALLATION OF WATERMAIN ACROSS DRIVEWAYS, ETC.) WITH THAT RESPECTIVE PARCEL OWNER PRIOR TO CONSTRUCTION AND INSTALLATION OF THE WATERMAIN.
- THE ACTUAL LOCATION OF THE WATERMAIN TAPPING SLEEVES AND VALVES WILL BE FIELD LOCATED BY CONTRACTOR AND COORDINATED WITH THE OWNER AND ENGINEER. CONTRACTOR TO FIELD LOCATE THE EXISTING WATERMAIN AND CONNECT THE PROPOSED WATERMAIN TO SAID EXISTING WATERMAIN.
- PRESERVE EXISTING TREES, WOODLANDS AND UNDERSTORY OUTSIDE THE LIMITS OF CONSTRUCTION. CONTRACTOR SHALL BE VERY CONSCIOUS ABOUT ADJACENT TREE REMOVAL TO CONSTRUCTION AREAS. CONTRACTOR SHALL ONLY REMOVE THE MINIMUM AMOUNT OF NECESSARY TREES TO COMPLETE THIS PROJECT. CONTRACTOR SHALL COORDINATE TREE REMOVAL WITH THE OWNER TO DETERMINE THE TREES THE OWNER WOULD LIKE REMOVED AND THE TREES THE OWNER WOULD LIKE TO PRESERVE.
- ANY REFERENCE TO AN IDOT STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUB-NUMBER LISTED.
- PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL ARRANGE TO HAVE ALL UNDERGROUND UTILITIES INCLUDING WATER, GAS, ELECTRIC, STORM SEWER, TELEPHONE AND CABLE TV LOCATED AND SUITABLY MARKED. SHOULD A UTILITY BE IN CONFLICT WITH THE PROPOSED CONSTRUCTION, THE ENGINEER SHALL BE NOTIFIED AT ONCE. SHOULD A UTILITY BE LOCATED PARALLEL TO THE PROPOSED PIPELINE AND WITHIN THE MAXIMUM TRENCH WIDTH AS DEFINED IN THE STANDARD SPECIFICATIONS, OR IN DIRECT GRADE CONFLICT WITH THE GRADE OF THE PROPOSED PIPE, ARRANGEMENTS SHALL BE MADE FOR THE UTILITY TO BE PROTECTED, OR IF PROTECTION IS NOT FEASIBLE, TO ARRANGE FOR THE UTILITY TO BE RELOCATED. SHOULD THE PROPOSED ALIGNMENT BE ALTERED IN THE FIELD, THE CONTRACTOR SHALL BE PAID FOR THE QUANTITIES OF WORK PERFORMED IN ACCORDANCE WITH THESE SPECIFICATIONS AND NO ADDITIONAL PAYMENT SHALL BE MADE. SHOULD A UTILITY OUTSIDE OF THE TRENCH WIDTH AND NOT IN DIRECT CONFLICT BE ENCOUNTERED, THE CONTRACTOR SHALL PROTECT IT OR HAVE IT RELOCATED AT HIS/HER OWN EXPENSE. LIKEWISE OTHER LINES SHALL BE PROTECTED AT NO ADDITIONAL EXPENSE TO THE OWNER AND WITHOUT CLAIM BY THE CONTRACTOR FOR DELAYS DUE TO SERVICE LINES ENCOUNTERED.
- NECESSARY PRECAUTIONS SHALL BE TAKEN BY THE CONTRACTOR TO PROTECT EXISTING SERVICES AND MAINS, AND ANY DAMAGE TO THEM DUE TO HIS NEGLIGENCE SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTORS EXPENSE.
- THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES SEVEN (7) DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS. SOME, BUT NOT ALL, OF THE UTILITIES OF THIS PROJECT CAN BE CONTACTED PRIOR TO CONSTRUCTION BY CALLING THE JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS (JULIE), PHONE (800) 892-0123.
- AFTER THE TRENCH HAS BEEN BACKFILLED, THE GROUND WILL BE RETURNED TO EXISTING OR PROPOSED GRADE AND NO EXCESS EXCAVATED MATERIAL WILL BE SPREAD IN THIS AREA.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING AND REPLACING EXISTING FENCES, DRIVEWAYS, ETC. DAMAGED OR REMOVED DURING CONSTRUCTION. ALL DISTURBED AREAS SHALL BE RETURNED TO THEIR ORIGINAL CONDITION. ALL TREES SHALL BE PROTECTED BY THE CONTRACTOR UNLESS THE TREES LIE DIRECTLY IN THE PATH OF THE PROPOSED FACILITIES.
- THE CONTRACTOR HAS NO AUTHORITY TO PERMIT THE USE OF ANY PORTION OF THE SITE BY ANYONE EXCEPT FOR BUSINESS CONNECTED WITH THE CONSTRUCTION IN WHICH THIS CONTRACT IS CONCERNED.
- THE CONTRACTOR SHALL PERFORM EXPLORATORY EXCAVATION FAR ENOUGH IN ADVANCE OF THE WORK TO LOCATE EXISTING UTILITIES AND OBSTRUCTIONS SO THAT CORRECTIONS IN PROPOSED PIPE GRADE AND ALIGNMENT CAN BE MADE WITHOUT REMOVING PIPE ALREADY INSTALLED AND IN PLACE. ANY CORRECTION REQUIRED TO PIPE OR FACILITIES ALREADY INSTALLED DUE TO THE CONTRACTOR'S FAILURE TO LOCATE EXISTING UTILITIES AND OBSTRUCTIONS SHALL BE REMOVED AND REINSTALLED AT NO ADDITIONAL CONTRACT COST.
- SHORT TUNNELS MAY BE REQUIRED BY THE ENGINEER AT SOME LOCATIONS WHILE CONSTRUCTING THE PROPOSED PIPELINES IN ORDER TO SAVE OBSTRUCTIONS SUCH AS TREES OR EXISTING PIPES WHICH ARE IN THE TRENCH WIDTH. THE COST OF SHORT TUNNELS SHALL BE INCIDENTAL TO THE COST OF CONSTRUCTION.
- ANY DAMAGE TO EXISTING ROAD SURFACES BY CONTRACTOR'S EQUIPMENT SHALL BE REPAIRED TO ORIGINAL CONDITION OR BETTER, AND THE REPAIR SHALL BE ACCEPTABLE TO THE CITY. COST OF SUCH REPAIR OUTSIDE OF TRENCH WIDTH PAY LIMITS SHALL BE INCIDENTAL TO THE COST OF CONSTRUCTION.
- DURING CONSTRUCTION, THE CONTRACTOR SHALL NOT CAUSE SEWAGE TO BE DISCHARGED ON THE GROUND, IN WATERWAYS OR INTO THE GROUND, NOR SHALL HE/SHE CAUSE BACKUP OF SEWAGE INTO BUILDINGS. DIVERT SEWAGE BY PUMPING AND/OR PIPING AROUND ANY PORTIONS OF THE SEWAGE SYSTEM WHICH ARE TAKEN OUT OF SERVICE.
- REMOVING AND RE-INSTALLING EXISTING FENCES AND MAILBOXES TO CONSTRUCT THIS PROJECT SHALL BE INCIDENTAL TO THE COST OF CONSTRUCTION.

SITE GRADING NOTES:

- CONTRACTOR SHALL NOTIFY THE OWNER AND ALL LOCAL GOVERNING AGENCIES 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY WORK.
- CONTRACTOR TO PROVIDE ADEQUATE OFF-STREET PARKING FOR CONSTRUCTION EMPLOYEES. PARKING ON NON-SURFACED AREAS IS PROHIBITED IN ORDER TO ELIMINATE THE CONDITION WHEREBY MUD FROM CONSTRUCTION AND EMPLOYEE VEHICLES IS TRACKED ONTO THE PAVEMENT CAUSING HAZARDOUS ROADWAY AND DRIVING CONDITIONS.
- CONTRACTOR SHALL KEEP ALL PAVEMENT SURFACES CLEAR OF MUD AND DEBRIS. ALL PAVEMENT SURFACES USED FOR CONSTRUCTION ACCESS THERETO SHALL BE CLEANED THROUGHOUT THE DAY.
- EROSION AND SILTATION CONTROL SHALL BE INSTALLED PRIOR TO ANY WORK AND BE MAINTAINED THROUGHOUT THE PROJECT TO PREVENT DAMAGE OF OFFSITE PROPERTIES UNTIL ACCEPTANCE OF THE WORK BY THE OWNER AND/OR CONTROLLING REGULATORY AGENCY. PAVEMENT SURFACE HAS BEEN INSTALLED AND ADEQUATE VEGETATIVE GROWTH IN ALL DISTURBED AREAS HAS BEEN ESTABLISHED AND INSURES NO FURTHER EROSION OF THE SOIL. ADDITIONAL SILTATION CONTROL MAY BE REQUIRED AS DEEMED NECESSARY BY ALL LOCAL GOVERNING AGENCIES, IEPA, IDOT, ENGINEER AND/OR OWNER.
- WHERE NATURAL VEGETATION IS REMOVED DURING GRADING, VEGETATION SHALL BE REESTABLISHED IN SUCH A DENSITY AS TO PREVENT EROSION.
- WHEN WORK OPERATIONS ARE COMPLETED OR SUSPENDED FOR MORE THAN 7 DAYS, ALL NECESSARY PRECAUTIONS SHALL BE TAKEN TO RETAIN SOIL MATERIALS ONSITE. PROTECTIVE MEASURES MAY BE REQUIRED BY ALL LOCAL GOVERNING AGENCIES, IEPA AND/OR IDOT SUCH AS PERMANENT SEEDING, PERIODIC WETTING, MULCHING, OR OTHER SUITABLE MEANS.
- IF CUT AND FILL OPERATIONS OCCUR DURING A SEASON NOT FAVORABLE FOR IMMEDIATE ESTABLISHMENT OF PERMANENT GROUND COVER, A FAST GERMINATING ANNUAL SUCH AS RYE GRASSES OR SUDAN GRASSES SHALL BE UTILIZED TO PREVENT EROSION, IF ADEQUATE STORMWATER DETENTION AND EROSION CONTROL DEVICES HAVE NOT BEEN ESTABLISHED.
- ALL FINISHED GRADES (AREAS NOT TO BE DISTURBED BY FUTURE IMPROVEMENT) IN EXCESS OF 4:1 (H:V) SLOPES SHALL BE MULCHED BY CONSTRUCTING EROSION CONTROL BLANKET IN ACCORDANCE WITH SECTION 251 OF THE IDOT STANDARD SPECIFICATIONS AND IEPA STANDARDS AND SPECIFICATIONS. THE EROSION CONTROL BLANKET SHALL BE EXCELSIOR BLANKET.
- NO EXCAVATION SHALL BE MADE SO CLOSE TO THE PROPERTY LINE AS TO ENDANGER ANY ADJOINING PROPERTY OR ANY PUBLIC OR PRIVATE STREET WITHOUT SUPPORTING AND PROTECTING SUCH PROPERTY OR PUBLIC OR PRIVATE STREET FROM SETTLING, CRACKING OR OTHER DAMAGE.
- STORM WATER STRUCTURES, PIPES, OUTLETS AND CHANNELS SHALL BE PROTECTED BY SILT BARRIERS AND KEPT FREE OF WASTE AND SILT AT ALL TIMES PRIOR TO FINAL SURFACE STABILIZATION AND/OR PAVING. INTERIM STORM WATER DRAINAGE CONTROL IN THE FORM OF SILTATION CONTROL MEASURES IS REQUIRED.
- SILTATION FENCES SHALL BE INSPECTED PERIODICALLY AND AFTER EVERY STORM EVENT FOR DAMAGE AND THE AMOUNT OF SEDIMENT THAT HAS ACCUMULATED. REMOVAL OF SEDIMENT WILL BE REQUIRED WHEN IT REACHES 1/2 THE HEIGHT OF THE SILTATION FENCE OR 12", WHICHEVER IS LESS.
- STRAW BALES SHALL BE INSPECTED PERIODICALLY AND AFTER EVERY STORM EVENT FOR DAMAGE, DETERIORATION AND THE AMOUNT OF SEDIMENT THAT HAS ACCUMULATED. BALES THAT HAVE ROTTED OR FAILED SHALL BE REPLACED. REMOVAL OF SEDIMENT WILL BE REQUIRED WHEN IT REACHES 1/2 THE HEIGHT OF THE BALES OR 12", WHICHEVER IS LESS.
- ALL TRASH AND DEBRIS ONSITE, EITHER EXISTING OR FROM CONSTRUCTION, MUST BE REMOVED AND PROPERLY DISPOSED OF OFFSITE. DEBRIS AND FOUNDATION MATERIAL FROM ANY EXISTING ONSITE BUILDING OR STRUCTURE THAT IS SCHEDULED TO BE REMOVED FOR THIS PROJECT MUST BE PROPERLY DISPOSED OF OFFSITE. EXCESS, SURPLUS, UNUSABLE, UNSTABLE AND/OR UNSUITABLE MATERIALS RESULTING FROM CONSTRUCTION OF THIS PROJECT, INCLUDING THOSE RESULTING FROM REMOVAL OF EXISTING SIDEWALKS, PAVEMENTS, BUILDINGS AND/OR STRUCTURES, SHALL BE PROPERLY DISPOSED OF BY THE CONTRACTOR AT HIS/HER OWN EXPENSE IN A LEGAL MANNER, OUTSIDE THE SUBJECT PROPERTY IN SUCH A MANNER THAT PUBLIC OR PRIVATE PROPERTY WILL NOT BE DAMAGED OR ENDANGERED. COORDINATE WITH THE OWNER.
- ALL EXCAVATIONS, GRADING OR FILLING SHALL HAVE A FINISHED GRADE NOT TO EXCEED A 4:1 SLOPE (25%), UNLESS SPECIFICALLY APPROVED OTHERWISE.
- CONTRACTOR TO REMOVE AND DISPOSE OF ALL VEGETATION AFFECTING CONSTRUCTION WITHIN THE CONSTRUCTION LIMITS SHOWN ON THE PLANS IN ACCORDANCE WITH IDOT AND IEPA STANDARDS AND SPECIFICATIONS, UNLESS OTHERWISE NOTED. ALL REMOVED VEGETATION SHALL BE DISPOSED OF WITHIN 7 DAYS OF REMOVAL.
- THE REMOVAL OF ALL UNUSABLE, UNSTABLE AND/OR UNSUITABLE MATERIALS IN ALL CUT AND FILL AREAS AND THEIR REPLACEMENT WITH SATISFACTORY MATERIAL, WHERE REQUIRED, SHALL BE INCIDENTAL TO THE CONTRACT.
- EXCESS EXCAVATED MATERIAL NOT TO BE USED BY THE OWNER SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR AND PROPERLY DISPOSED OF ON A SITE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING THE UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE IDOT STANDARD SPECIFICATION. THE J.U.L.I.E. NUMBER IS 800-892-0123. A MINIMUM OF FORTY-EIGHT HOURS ADVANCE NOTICE IS REQUIRED.
- STONE FOR HEAVY STONE REVTMENT BLANKET SHALL BE SOUND, DURABLE AND FREE FROM CRACKS AND OTHER STRUCTURAL DEFECTS THAT WOULD CAUSE THE REVTMENT TO DETERIORATE. THE STONE SHALL NOT CONTAIN ANY SOAPSTONE, SHALE OR OTHER MATERIAL EASILY DISINTEGRATED. THE STONE BLANKET SHALL BE AT LEAST 24 INCHES IN THICKNESS PERPENDICULAR TO THE BOTTOM OF THE DRAINAGE DITCH/SWALE. STONE SHOULD BE BLOCKY IN SHAPE RATHER THAN ELONGATED, MORE NEARLY CUBICAL IN SHAPE, "NESTED" TOGETHER TO PROVIDE MORE RESISTANT TO MOVEMENT. THE STONE SHALL BE PREDOMINANTLY ANGULAR IN SHAPE. APRON LINING MUST EXTEND INTO A STABLE CHANNEL. HEAVY STONE REVTMENT SHALL BE UNDERLAIN WITH A MIRAFI 140N FILTER FABRIC AND PLACED ON A PREPARED SUBGRADE. ALL ENDS OF FILTER FABRIC TO BE ANCHORED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- COHESIVE FILL UNDER BUILDINGS, STEPS, PAVED AREAS, UTILITY LINES AND TRENCH BACKFILLS SHALL BE COMPACTED TO A MINIMUM 95% OF MAXIMUM DRY DENSITY. WELL GRADED AGGREGATE FILL UNDER SLABS ON GRADE, PAVED AREAS, UTILITY LINES AND TRENCH BACKFILLS SHALL BE COMPACTED TO A MINIMUM 95% OF MAXIMUM DRY DENSITY. WELL GRADED AGGREGATE FILL UNDER FOOTINGS SHALL BE COMPACTED TO A MINIMUM 100% OF MAXIMUM DRY DENSITY. UNDER LAWN OR UNPAVED AREAS, COMPACT SOIL TO A MINIMUM 85% MAXIMUM DRY DENSITY. COMPACTION SHALL BE IN ACCORDANCE WITH ASTM D-698 WITH 6" MAXIMUM COMPACTED LIFTS, UNLESS OTHERWISE SPECIFIED. CONTRACTOR SHALL ADJUST AFOREMENTIONED COMPACTION INFORMATION BASED ON GEOTECHNICAL REPORT AND PROJECT SPECIFICATIONS IF SAID GEOTECHNICAL REPORT AND PROJECT SPECIFICATIONS DIFFERS FROM AFOREMENTIONED COMPACTION INFORMATION.

WATERMAIN AND SEWER PIPING SEPARATION NOTE:

- MAINTAIN SEPARATION OF WATERMAIN FROM SEWER PIPING IN ACCORDANCE WITH IEPA SECTION 653.119 PROTECTION OF WATER MAIN AND WATER SERVICE LINES. PARALLEL INSTALLATION - WATER MAINS SHALL BE LAID AT LEAST TEN FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED DRAIN, STORM SEWER, SANITARY SEWER, COMBINED SEWER OR SEWER SERVICE CONNECTION. THE DISTANCE SHALL BE MEASURED EDGE TO EDGE. CROSSINGS - WATER MAINS SHALL BE LAID SO THAT ITS INVERT IS 18 INCHES ABOVE THE CROWN OF THE DRAIN OR SEWER WHENEVER WATER MAINS CROSS STORM SEWERS, SANITARY SEWER OR SEWER SERVICE CONNECTIONS. THE VERTICAL SEPARATION SHALL BE MAINTAINED FOR THAT PORTION OF THE WATER MAIN LOCATED WITHIN TEN FEET HORIZONTALLY OF ANY SEWER OR DRAIN CROSSED. A LENGTH OF WATER MAIN PIPE SHALL BE CENTERED OVER THE SEWER TO BE CROSSED WITH JOINTS EQUIDISTANT FROM THE SEWER OR DRAIN.

UNDERGROUND UTILITY NOTE

ANY UNDERGROUND FACILITIES, STRUCTURES, OR UTILITIES THAT HAVE BEEN PLOTTED AND SHOWN FROM AVAILABLE INFORMATION AND RECORDS. THEREFORE, THEIR LOCATION AND RELATIONSHIP TO NEW PROPOSED WORK MUST BE CONSIDERED APPROXIMATE ONLY. THE VERIFICATION OF THE LOCATION OF UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES, EITHER SHOWN OR NOT SHOWN ON THE PLANS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE LOCATED PRIOR TO ANY WORK. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY ALL THE LOCAL GOVERNING AGENCIES AND UTILITY COMPANIES TO NOTIFY ALL THE LOCAL GOVERNING AGENCIES AND UTILITY COMPANIES PRIOR TO CONSTRUCTION TO DETERMINE THEIR UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES EXACT LOCATION AND THE EXISTENCE OF ANY NOT SHOWN. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES AND THE OWNER AS TO THE RELOCATION OR REMOVAL OF ANY UTILITIES SHOWN OR NOT SHOWN. THE ENGINEER/ARCHITECT AND THE OWNER DO NOT WARRANT OR GUARANTEE THE COMPLETENESS OR THE CORRECTNESS OF THE INFORMATION GIVEN.

ABBREVIATIONS

AC	ACRES	N	NORTHING
APPROX	APPROXIMATE	NTS	NOT TO SCALE
ASB	ABOVEGROUND SPLICE BOX	OC	ON CENTER
BOP	BEGINNING OF PROJECT	PC	POINT OF CURVATURE
CFS	CUBIC FEET PER SECOND	PL	PROPERTY LINE
CI	CURB INLET	PROP	PROPOSED
CJ	CONTROL JOINT	PSI	POUNDS PER SQUARE INCH
CL	CENTERLINE	PT	POINT OF TANGENCY
CLR	CLEAR	PVC	POLYVINYL CHLORIDE PIPE
COMP	CORRUGATED METAL PIPE	Q	DISCHARGE
CONC	CONCRETE	R	RADIUS
E	EASTING	RCP	REINFORCED CONCRETE PIPE
E	VERTICAL CURVE EXTERNAL DISTANCE	REINF	REINFORCED
EJ	EXPANSION JOINT	RJ	RESTRAINED JOINT
ELV	ELEVATION	ROW	RIGHT-OF-WAY
EOP	END OF PROJECT	STA	STATION
EX	EXISTING	T	TOP
FES	FLARED END SECTION	TBA	TO BE ADJUSTED
FL	FLOWLINE	TBR	TO BE REMOVED
FO	FIBER OPTIC CABLE	TO	TO OF
G	GAS MAIN	TYP	TYPICAL
HC	HANDICAP	UGE	UNDERGROUND ELECTRIC
HDPE	HIGH DENSITY POLYETHYLENE	UIP	USE IN PLACE
HGL	HYDRAULIC GRADE LINE	VPC	VERTICAL POINT OF CURVATURE
HP	HIGH POINT	VPI	VERTICAL POINT OF INTERSECTION
HYD	FIRE HYDRANT	VPT	VERTICAL POINT OF TANGENCY
K	RATE OF CURVATURE	W	WATER MAIN
LB	POUNDS	W/	WITH
LF	LINEAL FEET	WV	WATER VALVE
LP	LOW POINT	WWF	WELDED WIRE FABRIC
MIN	MINIMUM	Ø	DIAMETER
MH	MANHOLE	±	PLUS OR MINUS

WATERMAIN AND UTILITY NOTES:

- ALL WATERMAIN, WATER IMPROVEMENTS AND APPURTENANCES METHOD OF CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE CONSTRUCTION STANDARDS AND SPECIFICATIONS OF ALL LOCAL GOVERNING AGENCIES, CITY OF HILLSBORO, IEPA, AWWA, ASTM, IDOT, ILLINOIS POLLUTION CONTROL BOARD, ILLINOIS STATE PLUMBING CODE, STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS AND GREAT LAKES - UPPER MISSISSIPPI RIVER BOARD 10 STATES STANDARDS.
- PRIOR TO OBTAINING CONSTRUCTION PERMITS THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE THE PROVISIONS ENTITIES WITH A COPY OF AN EXECUTED CERTIFICATE OF INSURANCE INDICATING THAT THE PERMITEE HAS OBTAINED AND WILL CONTINUE TO CARRY COMMERCIAL GENERAL LIABILITY AND COMPREHENSIVE AUTO LIABILITY INSURANCE.
- UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED AND SHOWN FROM AVAILABLE INFORMATION AND RECORDS. THEREFORE, THEIR LOCATION AND RELATIONSHIP TO NEW PROPOSED WORK MUST BE CONSIDERED APPROXIMATE ONLY. THE VERIFICATION OF THE LOCATION OF UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES, EITHER SHOWN OR NOT SHOWN ON THESE PLANS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE LOCATED PRIOR TO ANY WORK. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY ALL LOCAL GOVERNING AGENCIES AND UTILITY COMPANIES PRIOR TO ANY CONSTRUCTION TO DETERMINE THEIR UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES EXACT LOCATION AND THE EXISTENCE OF ANY NOT SHOWN. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES AND THE OWNER AS TO THE RELOCATION OR REMOVAL OF ANY UTILITIES SHOWN OR NOT SHOWN. THE ENGINEER AND THE OWNER DO NOT WARRANT OR GUARANTEE THE COMPLETENESS OR THE CORRECTNESS OF THE INFORMATION GIVEN.
- DIP (DUCTILE IRON PIPE) WATERMAIN SHALL BE CLASS 350 AND BE IN ACCORDANCE WITH AWWA C151, WALL THICKNESS AWWA C150, CEMENT-MORTAR LINING AWWA C104, AND POLYETHYLENE JACKET AWWA C105 AND RESTRAINED JOINTS, MECHANICAL JOINTS OR PUSH-ON JOINTS AWWA C111 WITH DUCTILE IRON MECHANICAL JOINT FITTING AWWA C153 RESTRAINED WITH MECHANICAL RESTRAINERS OR RESTRAINED GASKET FITTINGS AWWA C153; OR LATEST REVISIONS THEREOF.
- ALL WATERMAIN PIPING SHALL BE AWWA C900, DR-25 PVC AND RESTRAINED JOINTS, MECHANICAL JOINTS, OR PUSH-ON JOINTS AWWA C111 WITH DUCTILE IRON MECHANICAL JOINT FITTINGS AWWA C153 RESTRAINED WITH MECHANICAL RESTRAINERS. FOR WATERMAIN PIPING UNDER 2", WATERMAIN PIPING SHALL BE COPPER TUBING ASTM B-88, TYPE K AND L ANNEALED; POLYETHYLENE PIPING AWWA C901, SDR-9; OR HDPE ASTM D-2737, PE 3408, DR-9. ALL WATERMAIN PIPING SHALL HAVE A MINIMUM COVER OF 42" UNLESS OTHERWISE NOTED. WATERMAIN TRACER TAPE TO BE INSTALLED WITH ALL PVC WATERMANS AND WATERMAIN LOCATOR WIRE TO BE INSTALLED WITH ALL PVC WATERMAIN, FITTING AND VALVE INSTALLATIONS AS SPECIFIED IN THE PROJECT SPECIFICATIONS.
- VALVES SHALL BE RESILIENT SEAT, DOUBLE DISC, NON-RISING STEM VALVES WITH OPERATING NUT AND MECHANICAL JOINT FLANGES MANUFACTURED IN ACCORDANCE WITH AWWA SPECIFICATION C-509 OR C-515. THEY SHALL HAVE O-RING SEALS AND SHALL BE MANUFACTURED BY WATEROUS COMPANY OR EQUIVALENT.
- UTILITY LOCATIONS AND ELEVATIONS ARE APPROXIMATE. IT IS THE CONTRACTOR RESPONSIBILITY TO FIELD VERIFY ALL UTILITIES.
- ALL TRENCHES UNDER AREAS TO BE PAVED AND UNDER EXISTING PAVING SHALL BE FULL HEIGHT GRANULARLY FILLED WITH COMPACTED SELECT GRANULAR BACKFILL. BACKFILL SHALL BE PLACED IN ACCORDANCE WITH THE CONSTRUCTION STANDARDS AND SPECIFICATIONS OF IEPA AND IDOT, PROJECT SPECIFICATIONS AND AS DIRECTED ON THE PLANS.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL OSHA SAFETY COMPLIANCES WHEN TRENCHING AND LAYING UTILITIES.
- BEFORE WATERMANS SHALL BE ACCEPTED AND PUT INTO SERVICE THEY SHALL BE TESTED FOR TWO HOURS ON EACH SEGMENT BETWEEN END POINTS AT A TEST PRESSURE OF AT LEAST 50% IN EXCESS OF NORMAL MAXIMUM OPERATING PRESSURE, NOT TO EXCEED 200 PSI. WATERMANS SHALL BE STERILIZED AND FLUSHED IN ACCORDANCE WITH CITY OF HILLSBORO, IEPA, AND AWWA SPECIFICATIONS AND STANDARDS.
- EXISTING ABOVE AND BELOW GROUND UTILITIES TO BE PROTECTED AND USED IN PLACE, UNLESS OTHERWISE SPECIFIED. EXISTING UTILITIES AND/OR STRUCTURES AFFECTED BY CONSTRUCTION, EITHER SHOWN OR NOT SHOWN ON THE PLANS, SHALL BE ADJUSTED TO GRADE.
- ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF CONSTRUCTION ACCORDING TO ARTICLE 202.03 OF THE IDOT STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- CONTRACTOR WILL COORDINATE ANY INTERRUPTION OF ANY SERVICE LINE WITH THE LOCAL GOVERNING UTILITY AGENCIES AND THE OWNER TO LIMIT UTILITY OUTAGE TO EXISTING CUSTOMERS. THE ACTUAL LOCATION OF THE POINT OF CONNECTION IS APPROXIMATE AND SHALL BE FIELD LOCATED BY THE CONTRACTOR.
- CONTRACTOR TO INSTALL ALL UTILITIES AND APPURTENANCES AS REQUIRED AND IN ACCORDANCE WITH ALL LOCAL GOVERNING UTILITY AGENCIES, MUNICIPALITIES AND STATE AND FEDERAL REQUIREMENTS INCLUDING, BUT NOT LIMITED TO, VALVES, METERS, FIRE HYDRANTS, FLUSH HYDRANTS, FITTINGS, THRU BLOCKS, BLOWOFFS, VALVE BOXES, VALVE BOX LIDS, METER PIT LIDS, METER PITS, BURST BEDDING, ETC.
- CONTRACTOR TO LOCATE EXISTING EASEMENT AND/OR RIGHT-OF-WAY LINES AND INSTALL PROPOSED UTILITY IMPROVEMENTS, WATERMAIN, VALVES, HYDRANTS, FITTINGS, THRU BLOCKS, WATER METERS AND APPURTENANCES WITHIN THE EXISTING EASEMENT AND/OR RIGHT-OF-WAY LIMITS AND/OR ON COMMISSION PROPERTY AS SHOWN ON PLANS.
- THE CONTRACTOR SHALL LIMIT THE AMOUNT OF TRENCH TO BE OPEN AT ANY GIVEN TIME TO A MAXIMUM OF FORTY (40) LINEAR FEET AS MEASURED ALONG THE CENTERLINE OF THE PROPOSED PIPE. ALL OPEN TRENCHES SHALL BE BACKFILLED AT THE END OF EACH DAY'S WORK AND IMMEDIATE MEASURES TAKEN TO STABILIZE THE DISTURBED AREA.



Hurst-Rosche, Inc.
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 Hillsboro, IL 62049
 217.532.3959 t
 www.hurst-rosche.com

EAST ST. LOUIS, IL
 MARION, IL
 SPRINGFIELD, IL
 ARNOLD, MO
 NASHVILLE, TN



SIGNATURE
 04-24-2026

DATE
 11-30-2027
 LICENSE EXPIRES

S. BROAD STREET AND E. SEWARD STREET
 WATERMAIN REPLACEMENT
 CITY OF HILLSBORO
 447 S. MAIN STREET
 HILLSBORO, MONTGOMERY COUNTY, ILLINOIS 62049

MARK	DATE	DESCRIPTION

DATE: APRIL 2026
 PROJECT NO: 850-1684
 DESIGN: ZAY DRAWN: AS CHECK: JJC

GENERAL NOTES

C-001
 02 OF 04

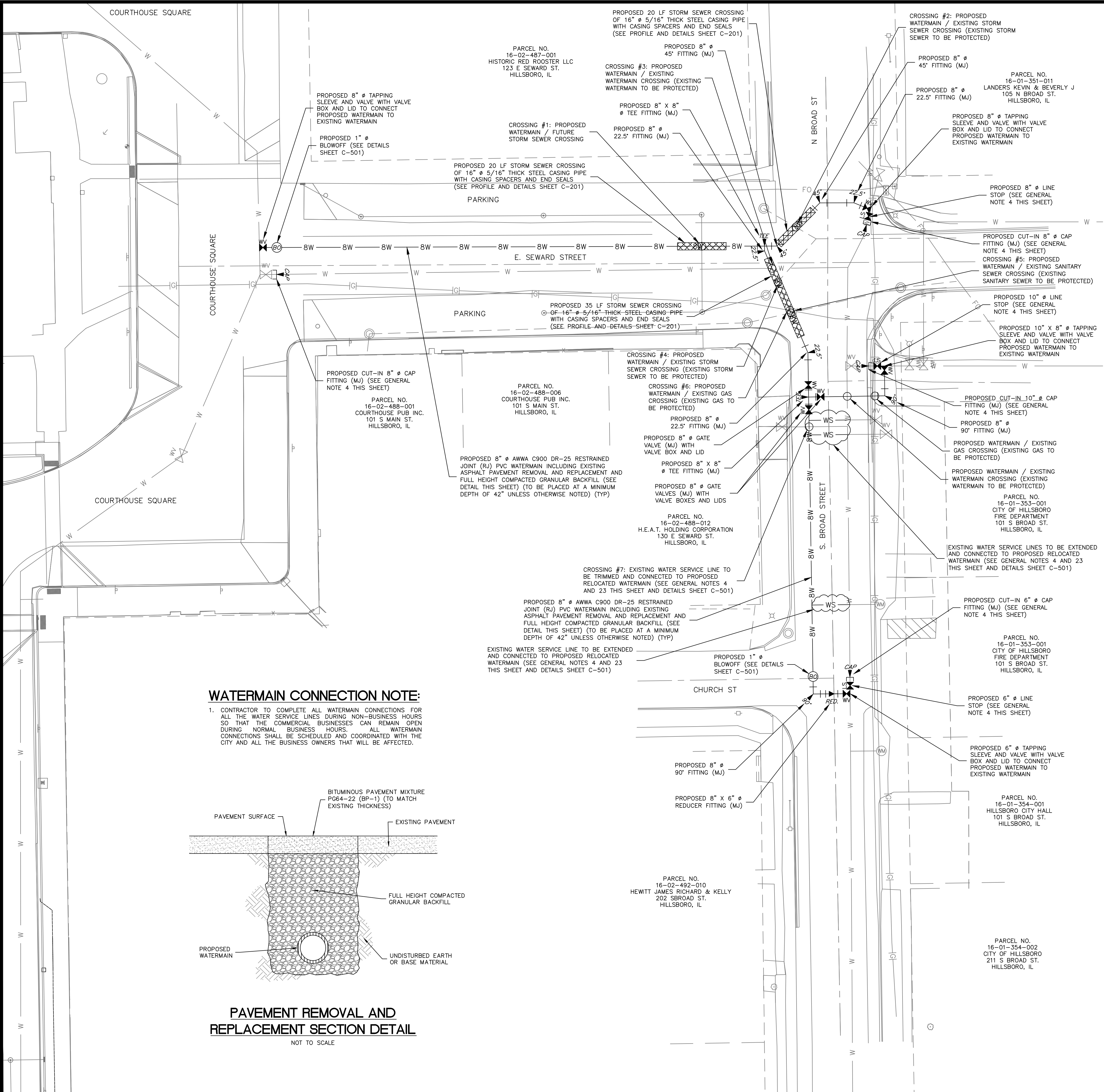


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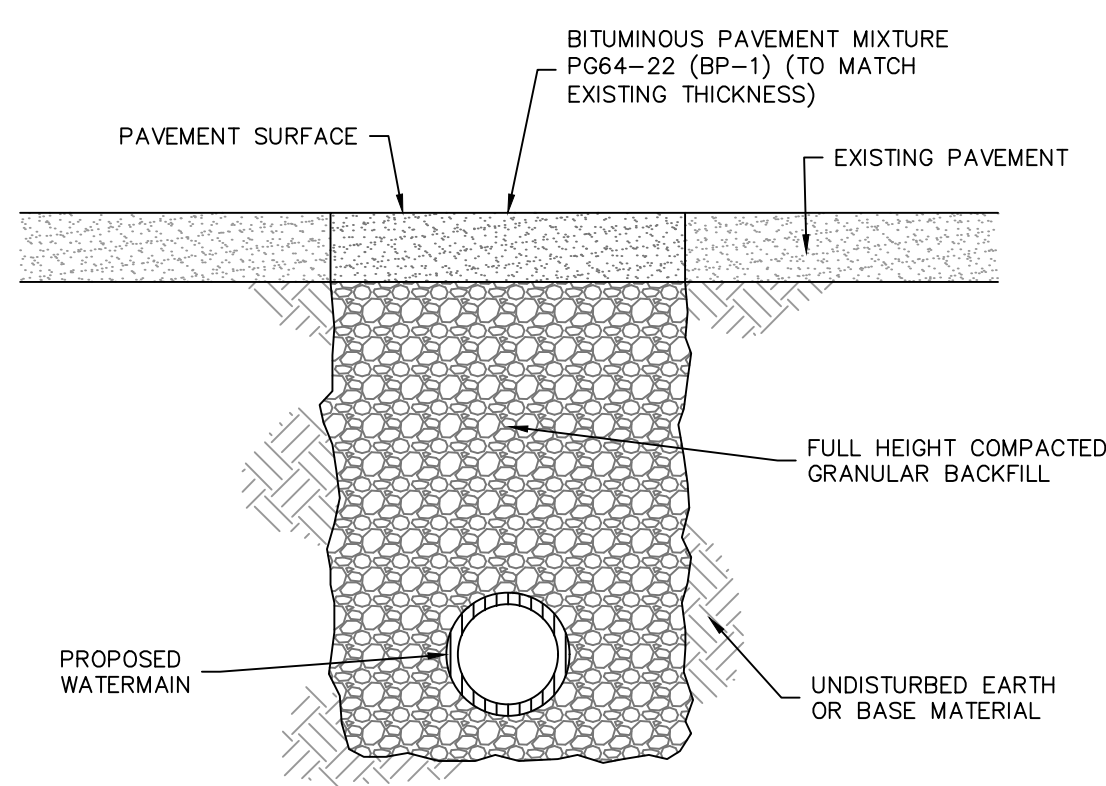


GENERAL NOTES:

- CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE PLANS, CITY OF HILLSBORO, IEPA, AWWA, ASTM, IDOT, ILLINOIS POLLUTION CONTROL BOARD, ILLINOIS STATE PLUMBING CODE, STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, CURRENT EDITION, GREAT LAKES - UPPER MISSISSIPPI RIVER BOARD 10 STATES STANDARDS, SPECIAL PROVISIONS, AND ALL LOCAL AND STATE CODES GOVERNING THE CONSTRUCTION OF THE PROPOSED FACILITIES.
- ALL FITTINGS AND GATE VALVES SHALL BE MECHANICAL JOINT WITH ALL ENDS BEING RESTRAINED WITH MECHANICAL RESTRAINERS OR RESTRAINED GASKET FITTINGS. FOR GATE VALVES AND FITTINGS WITHIN CLOSE PROXIMITY, THE GATE VALVE AND FITTING SHALL BE RESTRAINED TOGETHER USING SWIVEL ANCHOR COUPLINGS AND THE OTHER END OF THE GATE VALVE SHALL BE RESTRAINED WITH MECHANICAL RESTRAINERS OR RESTRAINED GASKET FITTINGS. CONTRACTOR TO VERTICAL ROLL FITTINGS AND/OR INSTALL VERTICAL FITTINGS AS NECESSARY TO ADJUST FOR CHANGE IN EXISTING AND PROPOSED GRADES AND / OR EXISTING UTILITY CROSSINGS THAT MAY BE IN CONFLICT.
- UNLESS OTHERWISE INDICATED ON THE DRAWINGS, TOP OF WATER MAINS ARE TO BE SET IN THE FIELD AND SHALL HAVE A MINIMUM OF 3.5' OF COVER. ADJUST DEPTHS OF WATER MAINS TO AVOID EXISTING UTILITIES AND TO PROVIDE 18" MINIMUM VERTICAL CLEARANCE BETWEEN WATER MAINS AND SEWER MAINS. EXISTING WATER MAINS SHALL REMAIN IN SERVICE AT ALL TIMES DURING CONSTRUCTION WITHOUT ANY INTERRUPTIONS OF WATER SERVICE.
- AFTER THE NEW PROPOSED WATERMAIN HAS BEEN PRESSURE TESTED, SAMPLE TESTED, AND PLACED IN SERVICE, THE CONTRACTOR SHALL TRIM THE WATER METER SERVICE LINES FOR THE EXISTING CUSTOMERS FROM THE EXISTING WATERMAIN TO CONNECT TO THE NEW PROPOSED REPLACED / RELOCATED WATERMAIN AS SHOWN HEREIN. AFTER THE NEW EXTENDED / TRIMMED WATER METER SERVICE LINES ARE PLACED IN SERVICE, THE CONTRACTOR SHALL INSTALL LINE STOPS ON THE EXISTING WATERMANS AS SHOWN HEREIN. NEXT, THE CONTRACTOR SHALL LEAVE A SMALL STUB OF THE EXISTING WATERMANS BEYOND THE LINE STOPS, TAPPING SLEEVES, AND EXISTING ISOLATION GATE VALVES THEN CAP THE EXISTING WATERMANS AND INSTALL CONCRETE THRUST BLOCKS (SEE DETAILS SHEET C-501). THE EXISTING WATERMANS BETWEEN THE LINE STOPS, TAPPING SLEEVES, ISOLATION GATE VALVES, AND CAP FITTINGS SHALL BE REMOVED AND RELOCATED IN PLACE. (SEE WATERMAIN / EXISTING GATE VALVE AND FITTING DETAIL SHEET C-501).
- RIGHT-OF-WAYS, PROPERTY LINES, AND TOPOGRAPHY SHOWN HEREON HAVE BEEN TAKEN FROM THE BEST AVAILABLE RECORDS AND MUST BE VERIFIED BY THE CONTRACTOR TO HIS OWN SATISFACTION.
- TEMPORARY EROSION CONTROL MEASURES WILL BE USED TO CORRECT CONDITIONS THAT DEVELOPED DURING CONSTRUCTION THAT WERE UNFORESSEEN DURING DESIGN STAGE OR THAT ARE NEEDED TEMPORARILY TO CONTROL EROSION THAT DEVELOPS DURING NORMAL CONSTRUCTION PRACTICES.
- THE CONTRACTOR SHALL LIMIT THE AMOUNT OF TRENCH TO BE OPEN AT ANY ONE TIME TO A MAXIMUM OF FORTY (40) LINEAR FEET AS MEASURED ALONG THE CENTERLINE OF THE PROPOSED PIPE. ALL OPEN TRENCHES SHALL BE BACKFILLED AT THE END OF EACH DAY'S WORK AND IMMEDIATE MEASURES TAKEN TO STABILIZE THE DISTURBED AREA.
- THE EXISTING UTILITIES AND OBSTRUCTIONS SHOWN ARE FROM THE BEST AVAILABLE RECORDS AND SHALL BE VERIFIED BY THE CONTRACTOR TO HIS OWN SATISFACTION BEFORE AND DURING CONSTRUCTION. THE ENGINEER AND THE OWNER DO NOT WARRANT OR GUARANTEE THE COMPLETENESS OR THE CORRECTNESS OF THE INFORMATION GIVEN.
- PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL ARRANGE TO HAVE ALL UNDERGROUND UTILITIES INCLUDING WATER, GAS, ELECTRIC, STORM SEWER, TELEPHONE AND CABLE TV LOCATED AND SUITABLY MARKED. SHOULD A UTILITY BE IN CONFLICT WITH THE PROPOSED CONSTRUCTION, THE ENGINEER SHALL BE NOTIFIED AT ONCE. SHOULD A UTILITY BE LOCATED PARALLEL TO THE PROPOSED PIPELINE AND WITHIN THE MAXIMUM TRENCH WIDTH AS DEFINED IN THE STANDARD SPECIFICATIONS, OR IN DIRECT GRADE CONFLICT WITH THE GRADE OF THE PROPOSED PIPE, ARRANGEMENTS SHALL BE MADE FOR THE UTILITY TO BE PROTECTED OR IF PROTECTION IS NOT FEASIBLE TO ARRANGE FOR THE UTILITY TO BE RELOCATED. SHOULD THE PROPOSED ALIGNMENT BE ALTERED IN THE FIELD, THE CONTRACTOR SHALL BE PAID FOR THE QUANTITIES OF WORK PERFORMED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS AND NO ADDITIONAL PAYMENT SHALL BE MADE. SHOULD A UTILITY OUTSIDE OF THE TRENCH WIDTH AND NOT IN DIRECT CONFLICT WITH THE PROPOSED WATER LINE BE ENCOUNTERED, THE CONTRACTOR SHALL PROTECT IT OR HAVE IT RELOCATED AT HIS OWN EXPENSE. LIKEWISE, WATER, SEWER, GAS AND OTHER LINES SHALL BE PROTECTED AT NO ADDITIONAL EXPENSE TO THE OWNER AND WITHOUT CLAIM BY THE CONTRACTOR FOR DELAYS DUE TO SERVICE LINES ENCOUNTERED.
- NECESSARY PRECAUTIONS SHALL BE TAKEN BY THE CONTRACTOR TO PROTECT EXISTING SERVICES AND MAINS, AND ANY DAMAGE TO THEM DUE TO HIS NEGLIGENCE SHALL BE REPAIRED IMMEDIATELY AT CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL NOTIFY THE LOCAL POWER COMPANY AND THE TELEPHONE COMPANY SEVEN (7) DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS. HOWEVER, NOT ALL OF THE UTILITIES OF THIS PROJECT CAN BE CONTACTED PRIOR TO CONSTRUCTION BY CALLING THE JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS (JULIE), PHONE 800-892-0123.
- THE CITY OF HILLSBORO WILL LOCATE EXISTING WATER AND SEWER MAINS. HOWEVER, THE CONTRACTOR WILL BEAR THE EXPENSE OF REPAIRING ALL WATER, SANITARY, AND STORM SEWERS WHICH ARE DAMAGED. THE CONTRACTOR SHALL NOTIFY THE CITY TO LOCATE THE EXISTING UTILITIES 7 DAYS IN ADVANCE OF EXCAVATION IN THE AREA OF THE PROPOSED WATER LINES.
- AFTER TRENCH HAS BEEN BACKFILLED, GROUND WILL BE RETURNED TO EXISTING OR PROPOSED GRADE AND NO EXCESS EXCAVATED MATERIAL WILL BE SPREAD IN THIS AREA.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING AND REPLACING EXISTING FENCES, DRIVEWAYS, SIDEWALKS, ETC. DAMAGED OR REMOVED DURING CONSTRUCTION. ALL DISTURBED AREAS SHALL BE RETURNED TO THEIR ORIGINAL CONDITION. ALL DAMAGE TO TREES SHALL BE PROTECTED BY THE CONTRACTOR UNLESS THE TREES LIE DIRECTLY IN THE PATH OF THE PROPOSED FACILITIES.
- THE CONTRACTOR HAS NO AUTHORITY TO PERMIT THE USE OF ANY PORTION OF THE SITE BY ANYONE EXCEPT FOR BUSINESS CONNECTED WITH THE CONSTRUCTION IN WHICH THIS CONTRACT IS CONCLUDED.
- THE CONTRACTOR SHALL PERFORM EXPLORATORY EXCAVATION FAR ENOUGH IN ADVANCE OF THE WORK TO LOCATE EXISTING UTILITIES AND OBSTRUCTIONS SO THAT CORRECTIONS IN PROPOSED PIPE GRADE AND ALIGNMENT CAN BE MADE WITHOUT REMOVING PIPE ALREADY INSTALLED AND IN PLACE. ANY CORRECTION REQUIRED TO BE MADE TO EXISTING UTILITIES ALREADY INSTALLED DUE TO THE CONTRACTOR'S FAILURE TO LOCATE EXISTING UTILITIES AND OBSTRUCTIONS SHALL BE REMOVED AND REINSTALLED AT NO ADDITIONAL CONTRACT COST.
- CONTRACTOR SHALL COORDINATE WITH THE CITY OF HILLSBORO BEFORE OPERATING ANY WATER VALVES IN THE SYSTEM. NO VALVES SHALL BE OPERATED NOR ANY WATER MAINS SHUTDOWN WITHOUT PRIOR APPROVAL FROM THE CITY.
- SHORT TUNNELS MAY BE REQUIRED BY THE ENGINEER AT SOME LOCATIONS WHILE CONSTRUCTING THE PROPOSED PIPELINES IN ORDER TO SAVE OBSTRUCTIONS SUCH AS TREES OR EXISTING PIPES WHICH ARE IN THE TRENCH WIDTH. THE COST OF SHORT TUNNELS SHALL BE INCIDENTAL TO THE SPECIFIC PIPELINE CONSTRUCTION.
- NO CONNECTION TO THE EXISTING SYSTEMS SHALL BE MADE UNTIL THE SUBJECT WATER, SEWER, FORCE MAIN, OR PUMPING STATION HAVE BEEN INSPECTED, TESTED, AND ACCEPTED TO BE PLACED IN SERVICE.
- ANY DAMAGE TO EXISTING ROAD SURFACES BY CONTRACTOR'S EQUIPMENT SHALL BE REPAIRED TO ORIGINAL CONDITION OR BETTER, AND THE REPAIR SHALL BE ACCEPTABLE TO THE CITY OF HILLSBORO. COST OF SUCH REPAIR OUTSIDE OF TRENCH WIDTH PAY LIMITS SHALL BE INCIDENTAL TO COST OF CONSTRUCTION.
- DURING CONSTRUCTION, THE CONTRACTOR SHALL NOT CAUSE SEWAGE TO BE DISCHARGED ON THE GROUND, IN WATERWAYS OR INTO THE GROUND NOR SHALL HE CAUSE BACKUP OF SEWAGE INTO BUILDINGS. SEWAGE ARE TAKEN OUT OF SERVICE. SEE SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.
- PERMITS AND LICENSES OF A TEMPORARY NATURE NECESSARY FOR THE PROCESSION OF THE WORK SHALL BE SECURED AND PAID FOR BY THE CONTRACTOR.
- WATER SERVICE LINE SHALL BE EXTENDED / TRIMMED BY THE CONTRACTOR USING THE FOLLOWING MATERIALS: COPPER TUBING ASTM B-88, TYPE K AND L ANNEALED; POLYETHYLENE PIPE AWWA C901, SDR-9; OR HDPE ASTM D-2737, PE 4710, DR-9 SERVICE LINE FROM NEW MAIN TO EXISTING SERVICE LINE; COMPRESSION OR BUTT FUSION JOINTS; BRASS CORPORATION STOP; BRASS SERVICE CLAMP AND SADDLE. CONTRACTOR TO REUSE EXISTING WATER METER IN PLACE. THE CONTRACTOR WILL COORDINATE ANY INTERRUPTION OF ANY SERVICE LINE WITH THE CITY AND CUSTOMER TO LIMIT WATER OUTAGE TO THE CUSTOMERS. FOR THIS PROJECT, THE CITY OF HILLSBORO AND CONTRACTOR WILL NOT CONNECT TO A PRIVATE LEAD SERVICE WITHOUT THE PROPER WAIVER IN PLACE WITH THE HOMEOWNER.

WATERMAIN CONNECTION NOTE:

- CONTRACTOR TO COMPLETE ALL WATERMAIN CONNECTIONS FOR ALL THE WATER SERVICE LINES DURING NON-BUSINESS HOURS SO THAT THE COMMERCIAL BUSINESSES CAN REMAIN OPEN DURING NORMAL BUSINESS HOURS. ALL WATERMAIN CONNECTIONS SHALL BE SCHEDULED AND COORDINATED WITH THE CITY AND ALL THE BUSINESS OWNERS THAT WILL BE AFFECTED.



PAVEMENT REMOVAL AND REPLACEMENT SECTION DETAIL
 NOT TO SCALE

S. BROAD STREET AND E. SEWARD STREET
 WATERMAIN REPLACEMENT
 CITY OF HILLSBORO
 447 S. MAIN STREET
 HILLSBORO, MONTGOMERY COUNTY, ILLINOIS 62049

MARK	DATE	DESCRIPTION

DATE: APRIL 2026
 PROJECT NO: 850-1684
 DESIGN: ZAY DRAWN: AS CHECK: JJC

WATERMAIN PLAN

C-101
 03 OF 04



Hurst-Rosche, Inc.
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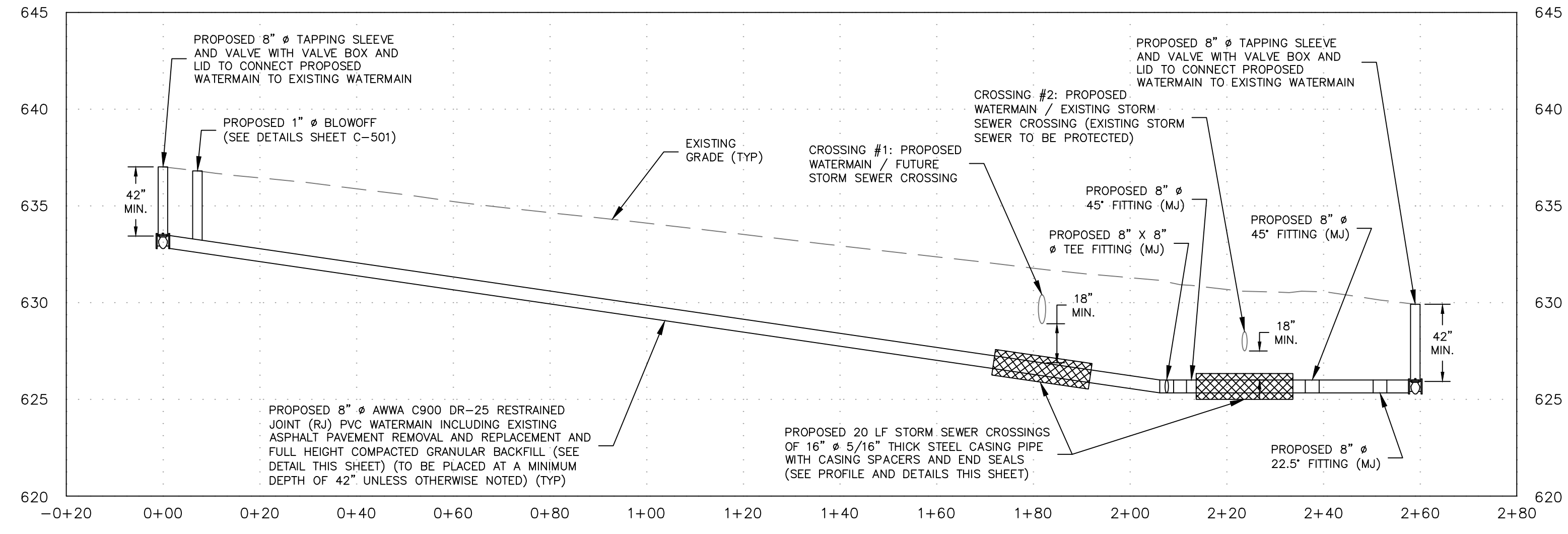
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GENERAL NOTES:

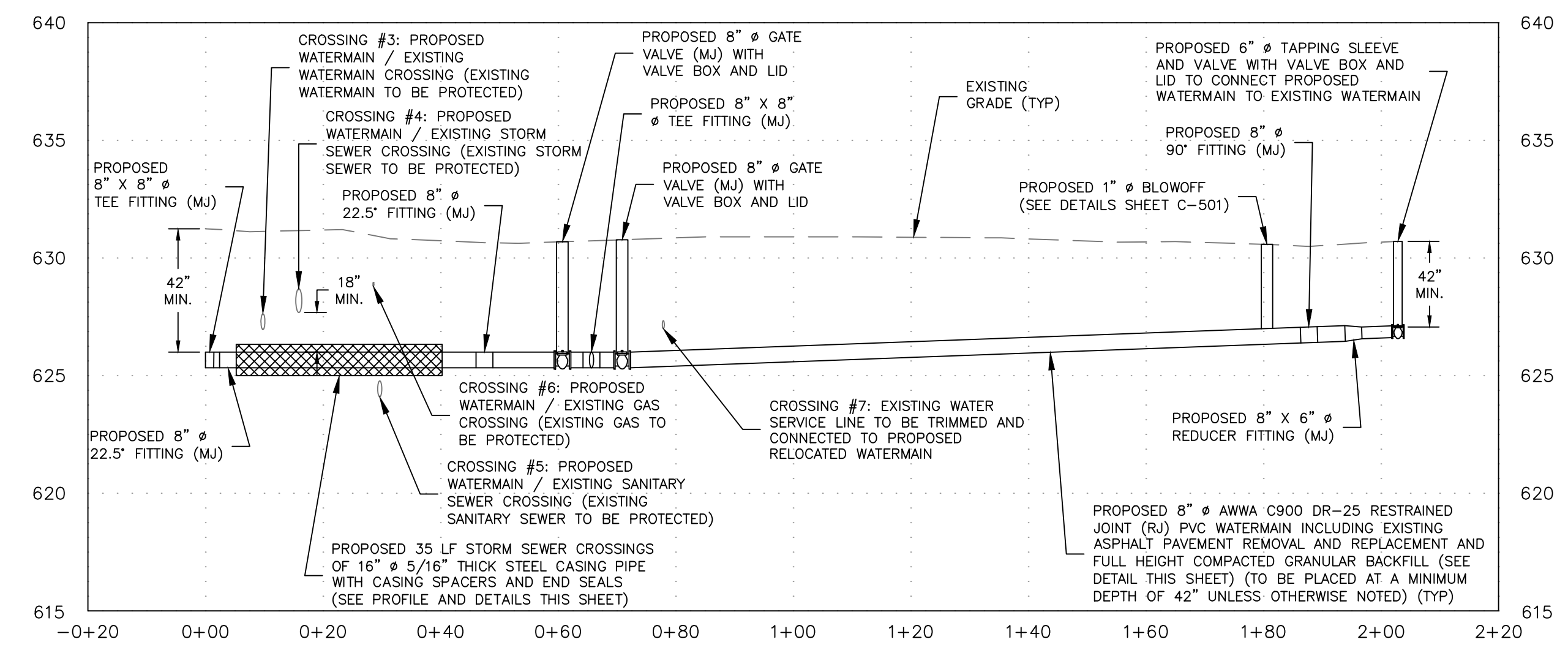
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- DURING CONSTRUCTION, THE CONTRACTOR SHALL NOT CAUSE SEWAGE TO BE DISCHARGED ON THE GROUND, IN WATERWAYS OR INTO THE GROUND NOR SHALL HE CAUSE BACKUP OF SEWAGE INTO BUILDINGS. SEWAGE SHALL BE DIVERTED BY PUMPING AND/OR PIPING AROUND ANY PORTIONS OF THE SEWER SYSTEM WHICH ARE TAKEN OUT OF SERVICE. SEE SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.
- WATER SERVICE LINE SHALL BE EXTENDED / TRIMMED BY THE CONTRACTOR USING THE FOLLOWING MATERIALS: COPPER TUBING ASTM B-88, TYPE K, AND ANNEALED; POLYETHYLENE PIPING AWWA C901, SDR-9; OR HDPE ASTM D-2737, PE 4710, DR-9 SERVICE LINE FROM NEW MAIN TO EXISTING SERVICE LINE; COMPRESSION OR BUTT FUSION JOINTS; BRASS CORPORATION STOP; BRASS SERVICE CLAMP AND SADDLE. CONTRACTOR TO REUSE EXISTING WATER METER IN PLACE. THE CONTRACTOR WILL COORDINATE ANY INTERRUPTION OF ANY SERVICE LINE WITH THE CITY AND CUSTOMER TO LIMIT WATER OUTAGE TO THE CUSTOMERS. FOR THIS PROJECT, THE CITY OF HILLSBORO AND CONTRACTOR WILL NOT CONNECT TO A PRIVATE LEAD SERVICE WITHOUT THE PROPER WAIVER IN PLACE WITH THE HOMEOWNER.
- ALL TRENCHES UNDER AREAS TO BE PAVED AND UNDER EXISTING PAVING SHALL BE FULL HEIGHT GRANULARLY FILLED WITH COMPACTED SELECT GRANULAR BACKFILL AND THE SURFACE SHALL BE RESTORED WITH FULL DEPTH PAVEMENT REPLACEMENT PER TYPICAL PROPOSED PAVEMENT SECTION. BACKFILL AND PAVEMENT SHALL BE PLACED IN ACCORDANCE WITH THE CONSTRUCTION STANDARDS AND SPECIFICATIONS OF ALL LOCAL GOVERNING AGENCIES' SPECIFICATIONS AND AS DIRECTED ON THE PLANS.



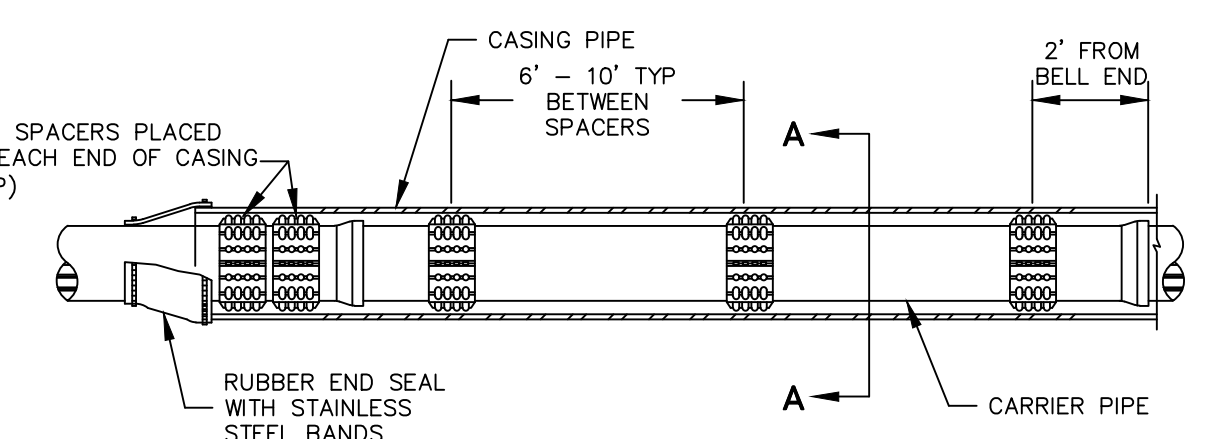
E. SEWARD STREET PROFILE
 HORIZONTAL SCALE: 1" = 20'
 VERTICAL SCALE: 1" = 5'

WATERMAIN SEPARATION NOTES:

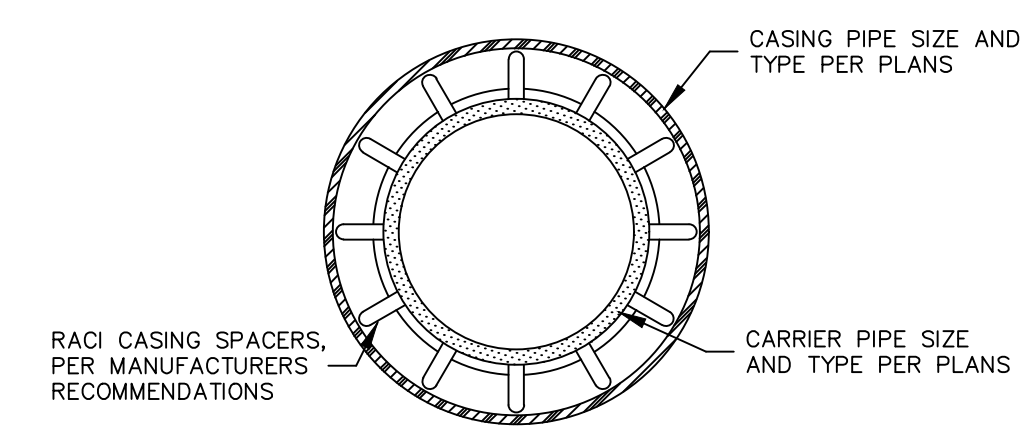
- MAINTAIN SEPARATION OF WATERMAIN FROM SEWER PIPING IN ACCORDANCE WITH IEPA SECTION 653.119 PROTECTION OF WATER MAIN AND WATER SERVICES LINES.
- PARALLEL INSTALLATION - WATER MAINS SHALL BE LAID AT LEAST TEN FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED DRAIN, STORM SEWER, SANITARY SEWER, COMBINED SEWER OR SEWER SERVICE CONNECTION. THE DISTANCE SHALL BE MEASURED EDGE TO EDGE.
- CROSSINGS - WATER MAINS SHALL BE LAID SO THAT ITS INVERT IS 18 INCHES ABOVE THE CROWN OF THE DRAIN OR SEWER WHENEVER WATER MAINS CROSS STORM SEWERS, SANITARY SEWER OR SEWER SERVICE CONNECTIONS. THE VERTICAL SEPARATION SHALL BE MAINTAINED FOR THAT PORTION OF THE WATER MAIN LOCATED WITHIN TEN FEET HORIZONTALLY OF ANY SEWER OR DRAIN CROSSED. A LENGTH OF WATER MAIN PIPE SHALL BE CENTERED OVER THE SEWER TO BE CROSSED WITH JOINTS EQUIDISTANT FROM THE SEWER OR DRAIN. SPECIAL STRUCTURAL SUPPORT FOR THE WATER AND SEWER PIPES MAY BE REQUIRED.
- WATERMANS SHALL BE SEPARATED FROM SEPTIC TANKS, DISPOSAL FIELDS AND SEEPAGE BEDS BY A MINIMUM OF 25 FEET.
- NO WATER PIPE SHALL PASS THROUGH OR COME IN CONTACT WITH ANY PART OF A SEWER MANHOLE. WATERMAIN SHOULD BE LOCATED AT LEAST 10 FEET FROM SEWER MANHOLES.



S. BROAD STREET PROFILE
 HORIZONTAL SCALE: 1" = 20'
 VERTICAL SCALE: 1" = 5'



CASING PIPE DETAIL
 NTS



SECTION A-A
 NTS

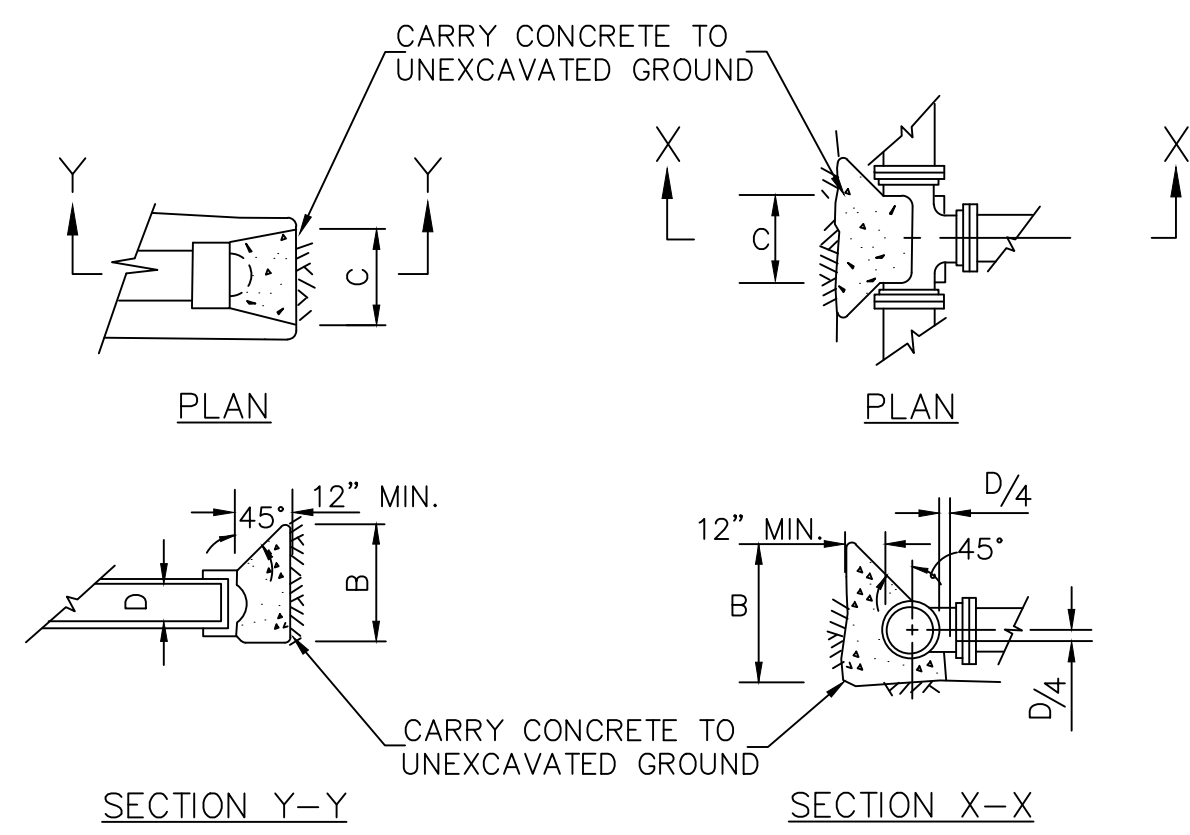
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 WATERMAIN REPLACEMENT
 CITY OF HILLSBORO
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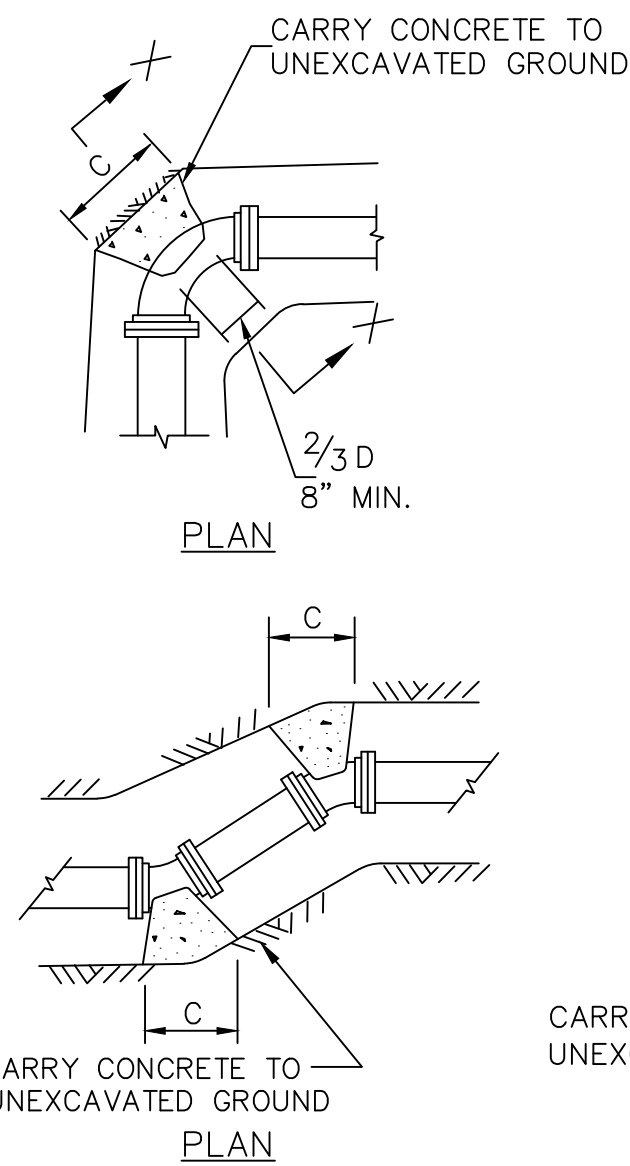
DATE: APRIL 2026
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 DESIGN: ZAY DRAWN: AS CHECK: JJC

WATERMAIN PROFILES

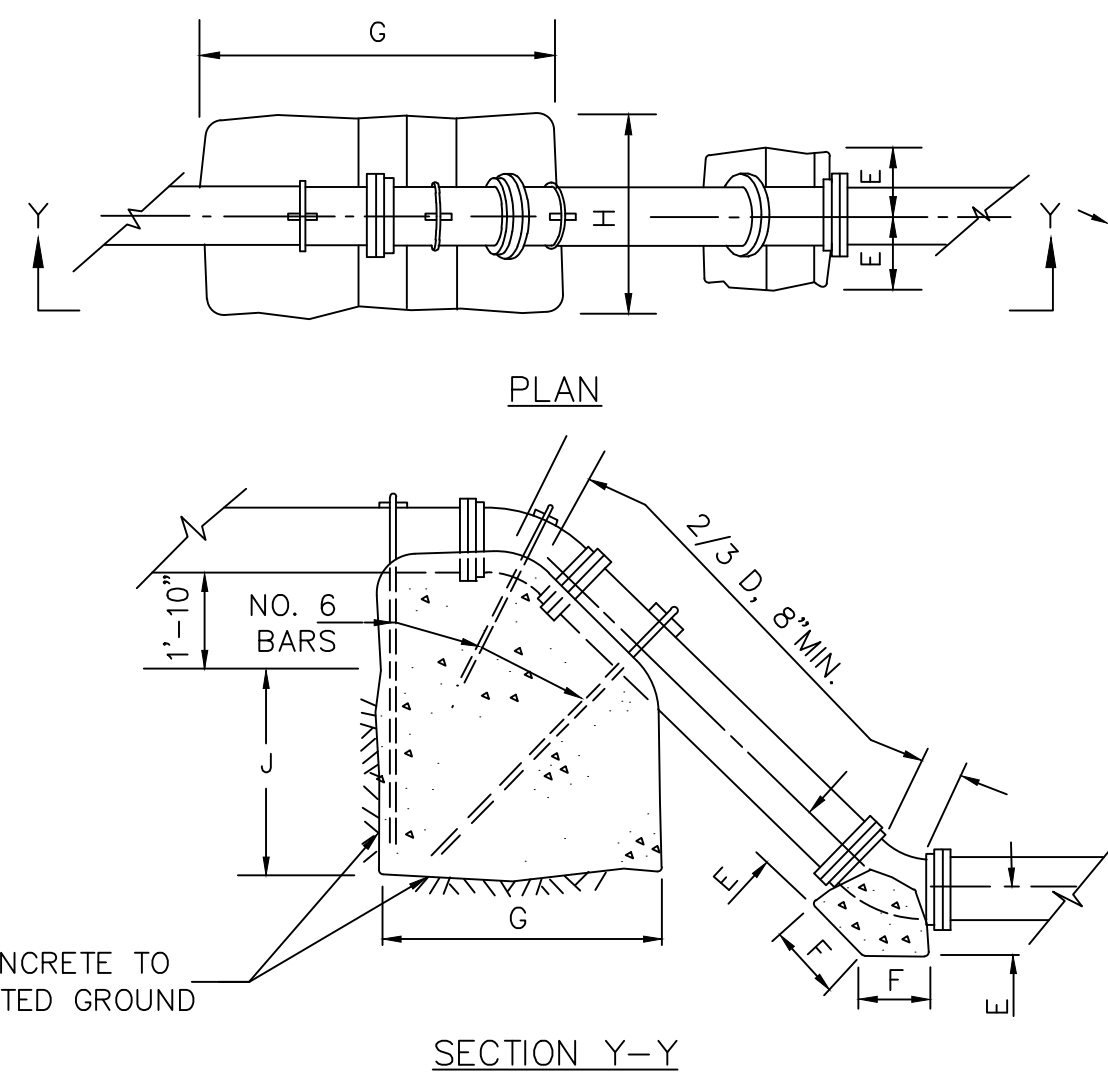
C-201
 03 OF 04



THRUST BLOCK FOR CAPS AND PLUGS
NOT TO SCALE



THRUST BLOCK FOR TEES AND HORIZONTAL BENDS
NOT TO SCALE



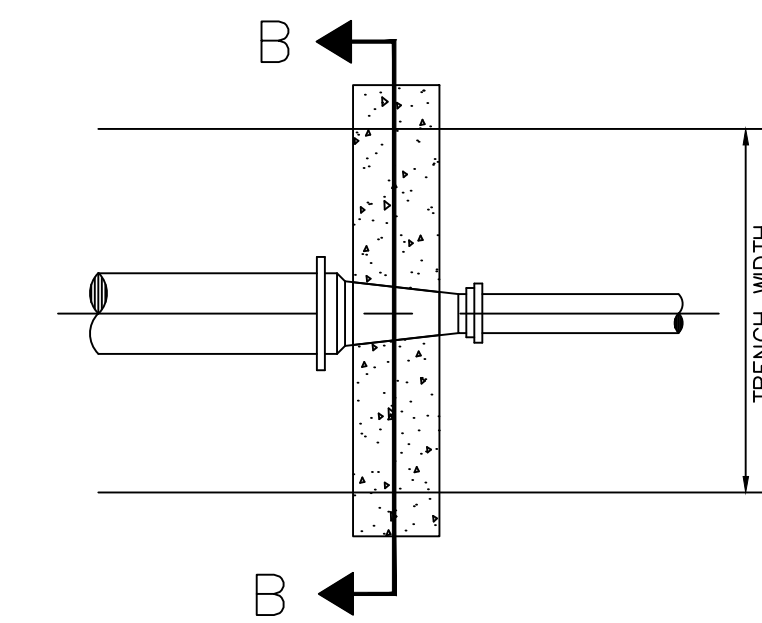
THRUST BLOCK FOR VERTICAL 1/8 AND 1/16 BENDS
NOT TO SCALE

THRUST BLOCK DIMENSIONS

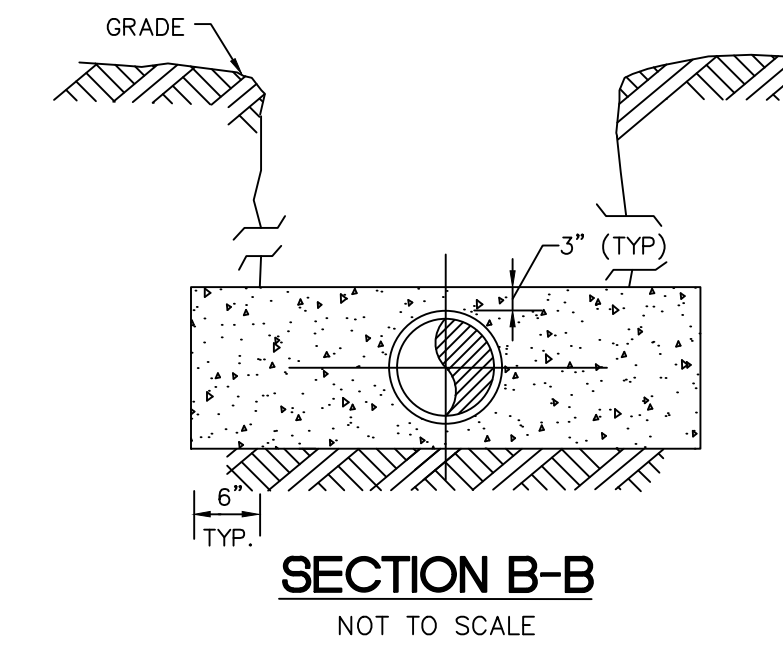
SIZE OF PIPE (N)	HORIZONTAL BENDS								TEE OR DEAD END		VERTICAL BENDS					
	11.25°		22.5°		45°		90°		B	C	E	F	G	H	J	
4	1.0'	1.0'	1.0'	1.0'	1.5'	1.5'	1.8'	1.0'	1.8'	0.5'	0.75'	2.2'	3.0'	1.0'		
6	1.0'	1.0'	1.0'	1.7'	1.8'	1.8'	2.0'	2.0'	2.2'	0.9'	0.9'	3.4'	3.0'	1.5'		
8	1.0'	1.5'	1.5'	2.0'	2.0'	3.0'	2.5'	4.3'	2.5'	3.0'	1.0'	1.5'	3.8'	2.0'		
10	1.5'	1.5'	1.5'	3.0'	2.5'	3.6'	3.0'	5.6'	2.5'	4.7'	1.25'	1.8'	5.0'	2.25'		
12	1.5'	2.2'	2.0'	3.3'	3.0'	4.3'	3.5'	7.0'	3.0'	5.7'	1.5'	2.2'	6.0'	2.5'		
16	2.0'	3.6'	3.0'	4.8'	4.0'	7.0'	5.0'	10.2'	4.5'	8.1'	2.0'	3.5'	8.0'	4.5'		

THRUST BLOCK NOTES:

1. ALL DIMENSIONS ARE IN FEET.
2. DIMENSIONS ARE BASED ON 100 PSI DESIGN PRESSURE, 1.5 SAFETY FACTOR, AND 1,000 LB / SQ. FT. BEARING CAPACITY OF SOIL.
3. JOINTS AND BOLTS SHALL BE ACCESSIBLE FOR REPAIRS.
4. ALL FITTINGS SHALL BE WRAPPED WITH 4 MIL POLYETHYLENE TO PREVENT CONCRETE FROM ADHERING TO BOLTS OR PIPE.
5. CONCRETE SHALL BEAR ON UNDISTURBED SOIL. IF UNDISTURBED SOIL DOES NOT EXIST AT THE BLOCKING AREA, ALL SOIL WITHIN THE BEARING AREA SHALL BE COMPACTED TO 90% STANDARD PROCTOR DENSITY.



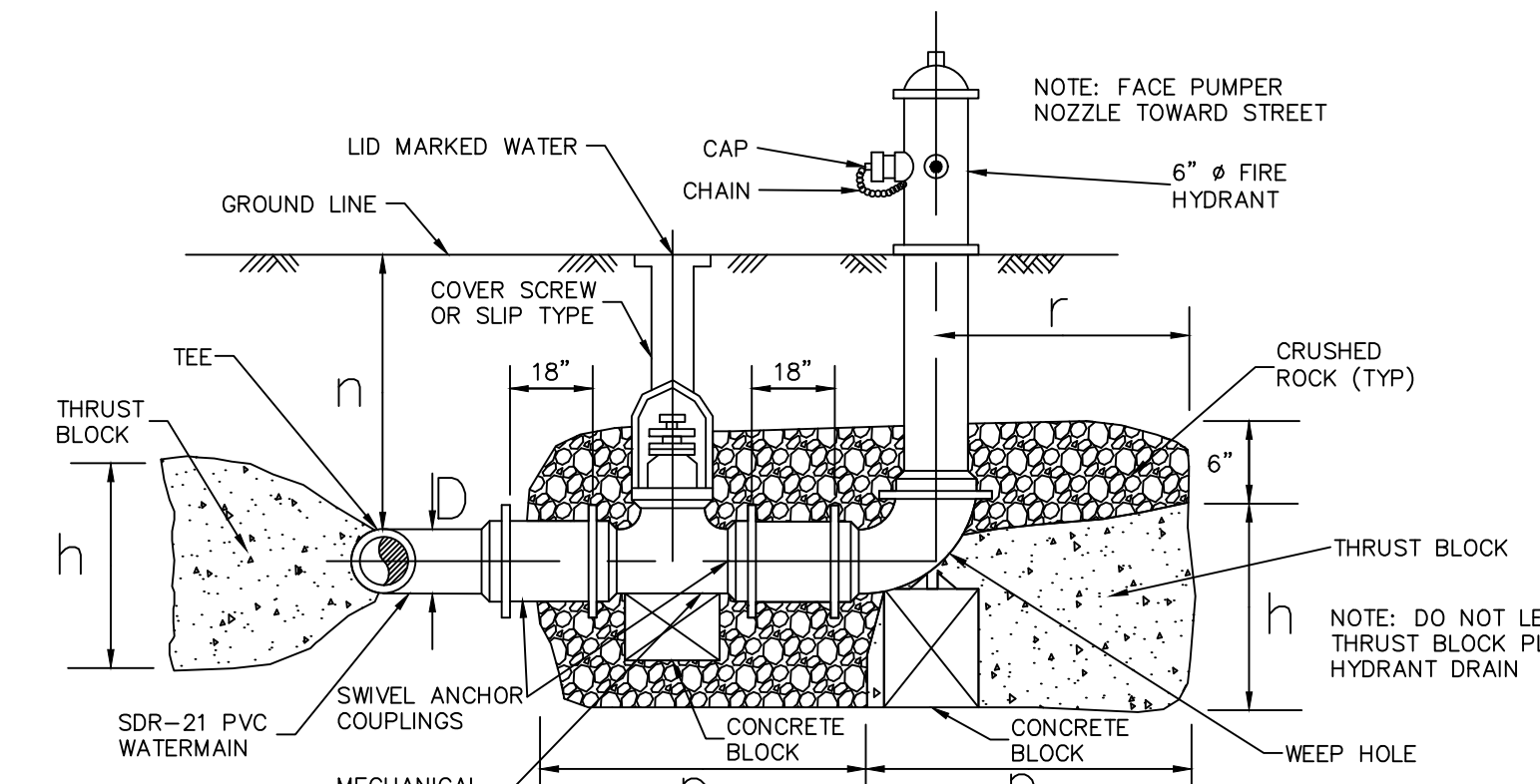
REDUCER ANCHOR
NOT TO SCALE



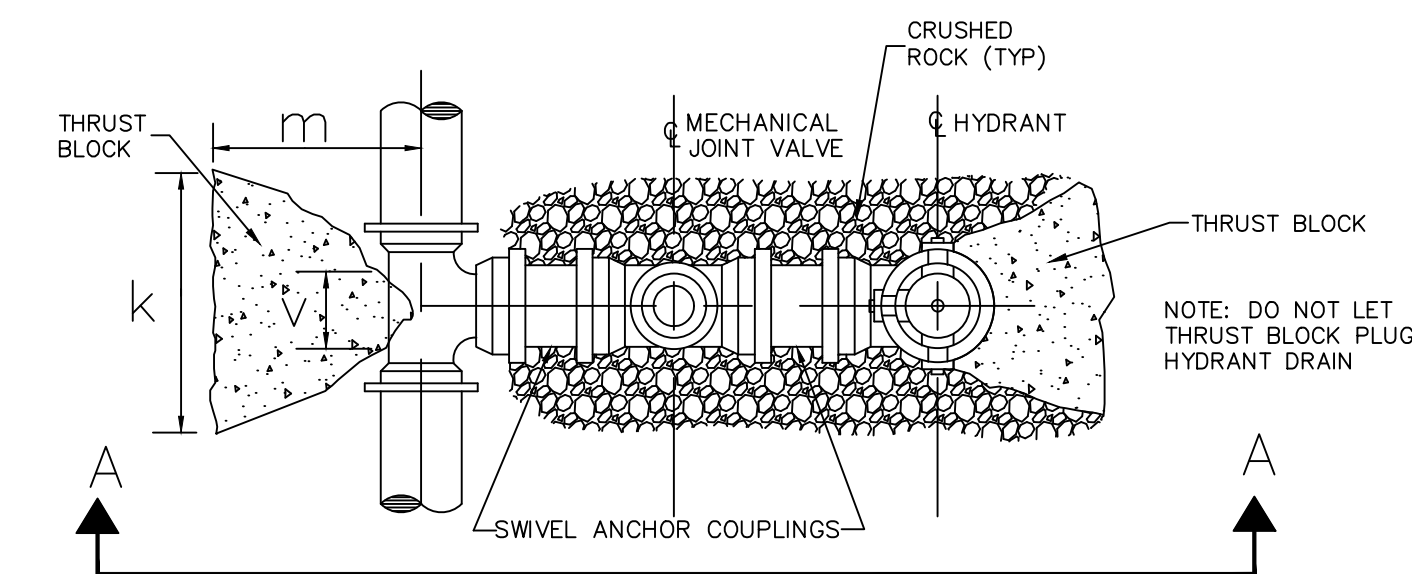
SECTION B-B
NOT TO SCALE

WATERMAIN NOTES:

1. VALVES SHALL BE RESILIENT SEAT, DOUBLE DISC, NON-RISING STEM VALVES WITH OPERATING NUT AND MECHANICAL JOINT FLANGES MANUFACTURED IN ACCORDANCE WITH AWWA SPECIFICATION C-509 OR C515. THEY SHALL HAVE O-RING SEALS AND SHALL BE MANUFACTURED BY WATEROUS COMPANY OR EQUIVALENT.
2. WATERMAIN TO MAINTAIN 42" MINIMUM COVER AT ALL LOCATIONS UNLESS OTHERWISE NOTED.
3. ALL WATERMAIN, METER VAULT, METER VAULT DRAIN PIPE AND APPURTENANCES METHOD OF CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE CONSTRUCTION STANDARDS AND SPECIFICATIONS OF CITY OF HILLSBORO, IEPA, AWWA, AND ASTM.
4. ALL TRENCHES UNDER AREAS TO BE PAVED AND UNDER EXISTING PAVING SHALL BE FULL HEIGHT GRANULARLY FILLED WITH COMPACTED SELECT GRANULAR BACKFILL. BACKFILL SHALL BE PLACED IN ACCORDANCE WITH THE CONSTRUCTION STANDARDS AND SPECIFICATIONS OF IEPA, IDOT, PROJECT SPECIFICATIONS AND AS DIRECTED ON THE PLANS.
5. ALL WATERMAIN PIPING SHALL BE AWWA C900, DR-25 PVC PIPE AND RESTRAINED JOINTS, MECHANICAL JOINTS, OR PUSH-ON JOINTS AWWA C111 WITH DUCTILE IRON MECHANICAL JOINT FITTINGS AWWA C153 RESTRAINED WITH MECHANICAL RESTRAINERS. DIP (DUCTILE IRON PIPE) WATERMAIN SHALL BE CLASS 350 AND BE IN ACCORDANCE WITH AWWA C151, WALL THICKNESS AWWA C150, CEMENT-MORTAR LINING C104, POLYETHYLENE JACKET AWWA C105, AND RESTRAINED JOINTS, MECHANICAL JOINTS, OR PUSH-ON JOINTS AWWA C111 WITH DUCTILE IRON MECHANICAL JOINT FITTING AWWA C153 RESTRAINED WITH MECHANICAL RESTRAINERS OR RESTRAINED GASKET FITTINGS AWWA C153; OR LATEST REVISIONS THEREOF.
6. THE CONTRACTOR IS RESPONSIBLE FOR ALL OSHA SAFETY COMPLIANCES WHEN TRENCHING AND LAYING UTILITIES.
7. WATERMAIN LOCATOR WIRE SHALL BE INSTALLED WITH ALL PVC WATERMAIN, FITTING, AND VALVE INSTALLATIONS AS SPECIFIED IN THE PROJECT SPECIFICATIONS.
8. BEFORE WATERMAINS SHALL BE ACCEPTED AND PUT INTO SERVICE THEY SHALL BE TESTED FOR TWO HOURS ON EACH SEGMENT BETWEEN END POINTS AT A TEST PRESSURE OF AT LEAST 50% IN EXCESS OF NORMAL MAXIMUM OPERATING PRESSURE, NOT TO EXCEED 200 PSI. WATERMAINS SHALL BE STERILIZED AND FLUSHED IN ACCORDANCE WITH CITY OF HILLSBORO, IEPA, AND AWWA SPECIFICATIONS AND STANDARDS.
9. FIRE HYDRANTS SHALL BE FREEZE PROOF DRY BARREL BREAKAWAY TYPE AND SHALL BE INSTALLED WITH AN AUXILIARY VALVE AND VALVE BOX IN ACCORDANCE WITH AWWA C502. FIRE HYDRANTS SHALL BE POST TYPE WITH A 6" MJ INLET, 5-1/4" DIAMETER VALVE OPERATING, A NON-TURNING OPERATING ROD AND SHALL OPEN BY TURNING THE VALVE OPERATING NUT TO THE LEFT OR COUNTERCLOCKWISE. FIRE HYDRANT COATING SHALL BE IN ACCORDANCE WITH AWWA C550. EACH FIRE HYDRANT SHALL HAVE TWO 2-1/2" HOSE CONNECTIONS AND A PUMPER CONNECTION IN ACCORDANCE WITH THE LOCAL FIRE DEPARTMENT. ALL OF THE OPERATING AND WORKING PARTS SHALL BE SERVICEABLE OR REPLACEABLE FROM ABOVE GRADE WITH NO DIGGING OR DISTURBING THE SUPPLY LINE CONNECTION. FIRE HYDRANTS SHALL BE MANUALLY OPERATED BY USING A STANDARD 2" GATE VALVE WRENCH. WHEN OPEN, VALVE SHALL BE 100% UNOBSTRUCTED AND DRAIN HOLE SHALL BE COVERED AND CLOSED. THE FIRE HYDRANT SHALL HAVE PROPER THRUST BLOCKS, ANCHORAGES AND GRANULAR DRAIN POCKETS, AS SHOWN HEREIN.



SECTION A-A
NOT TO SCALE



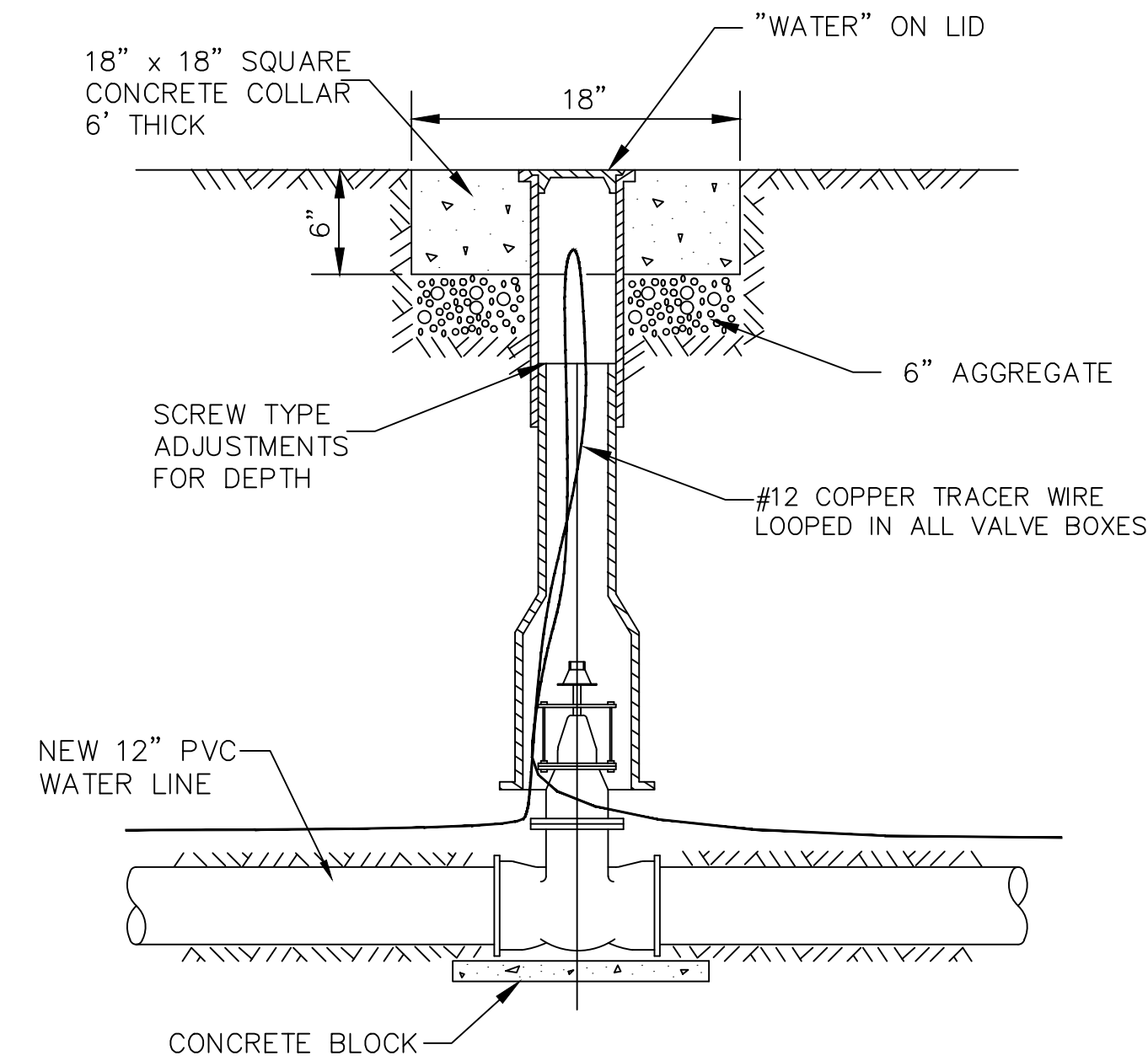
PLAN VIEW
NOT TO SCALE

FIRE HYDRANT ASSEMBLY
NOT TO SCALE

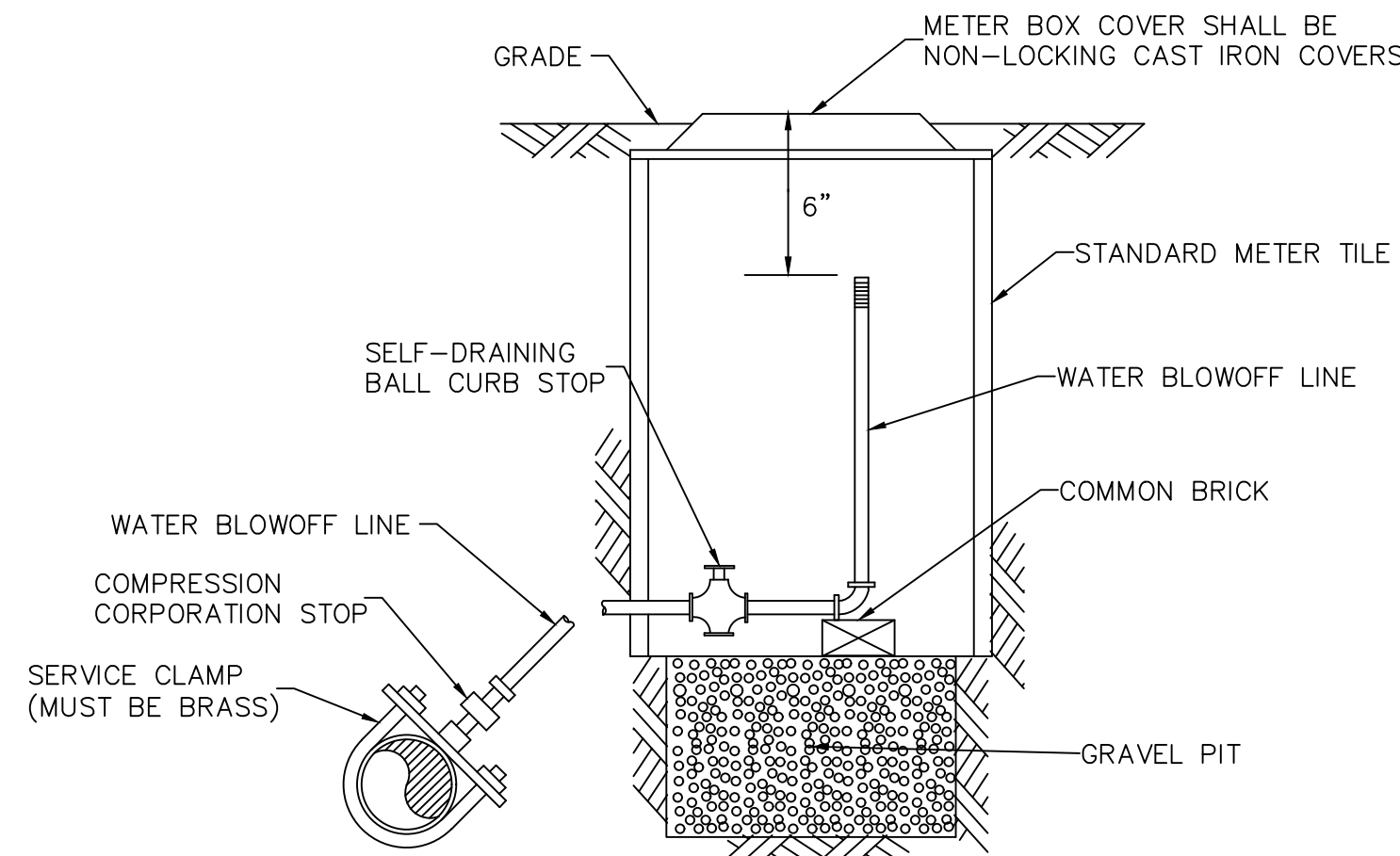
FIRE HYDRANT DETAILS

THRUST BLOCK DIMENSIONS (INCHES)

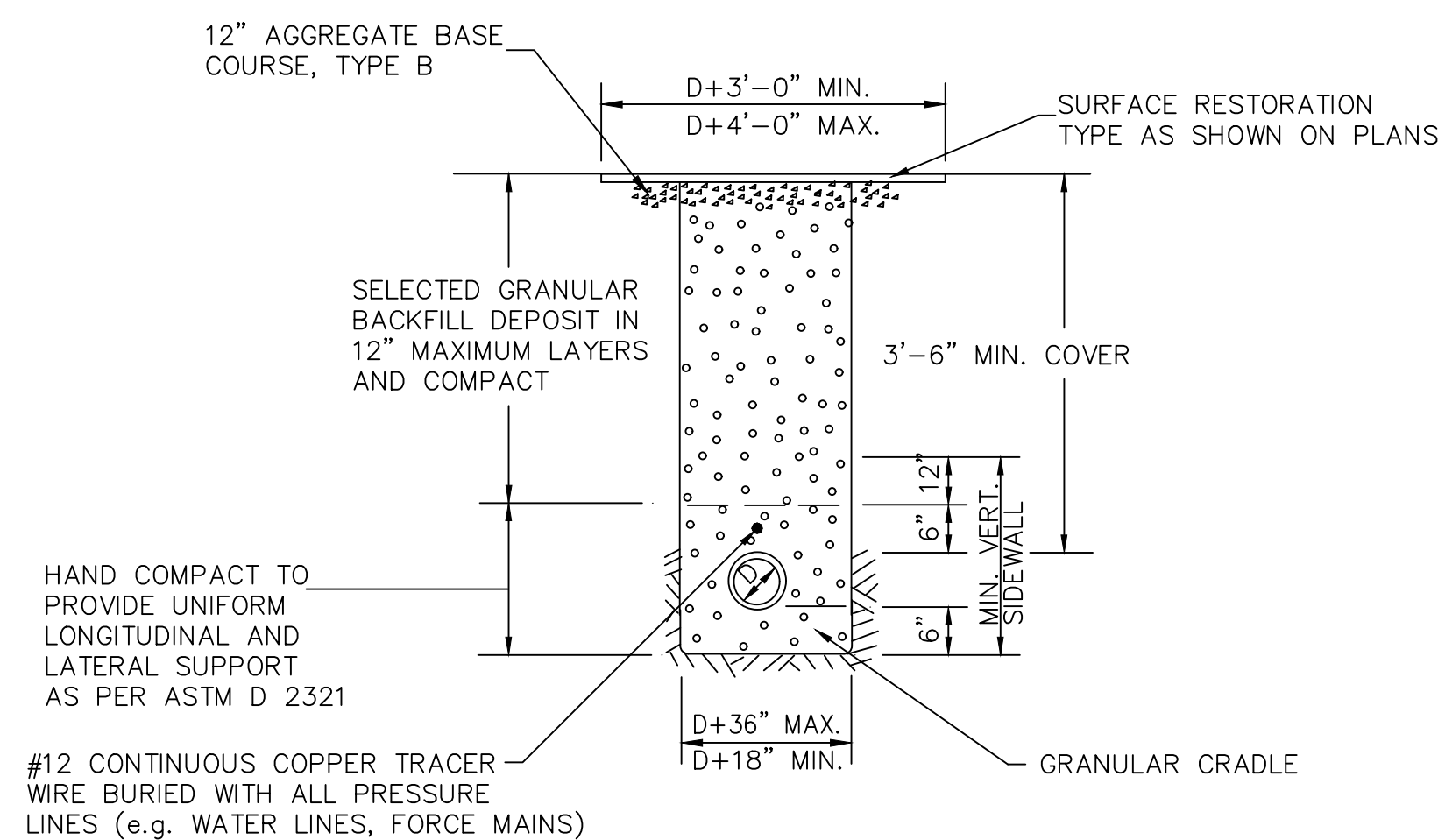
PIPE SIZE	D	k	v	m	h	n	p	r
2	26	4	14	14	42	26	21	
4	26	4	14	14	42	26	21	
6	36	6	18	18	42	36	30	



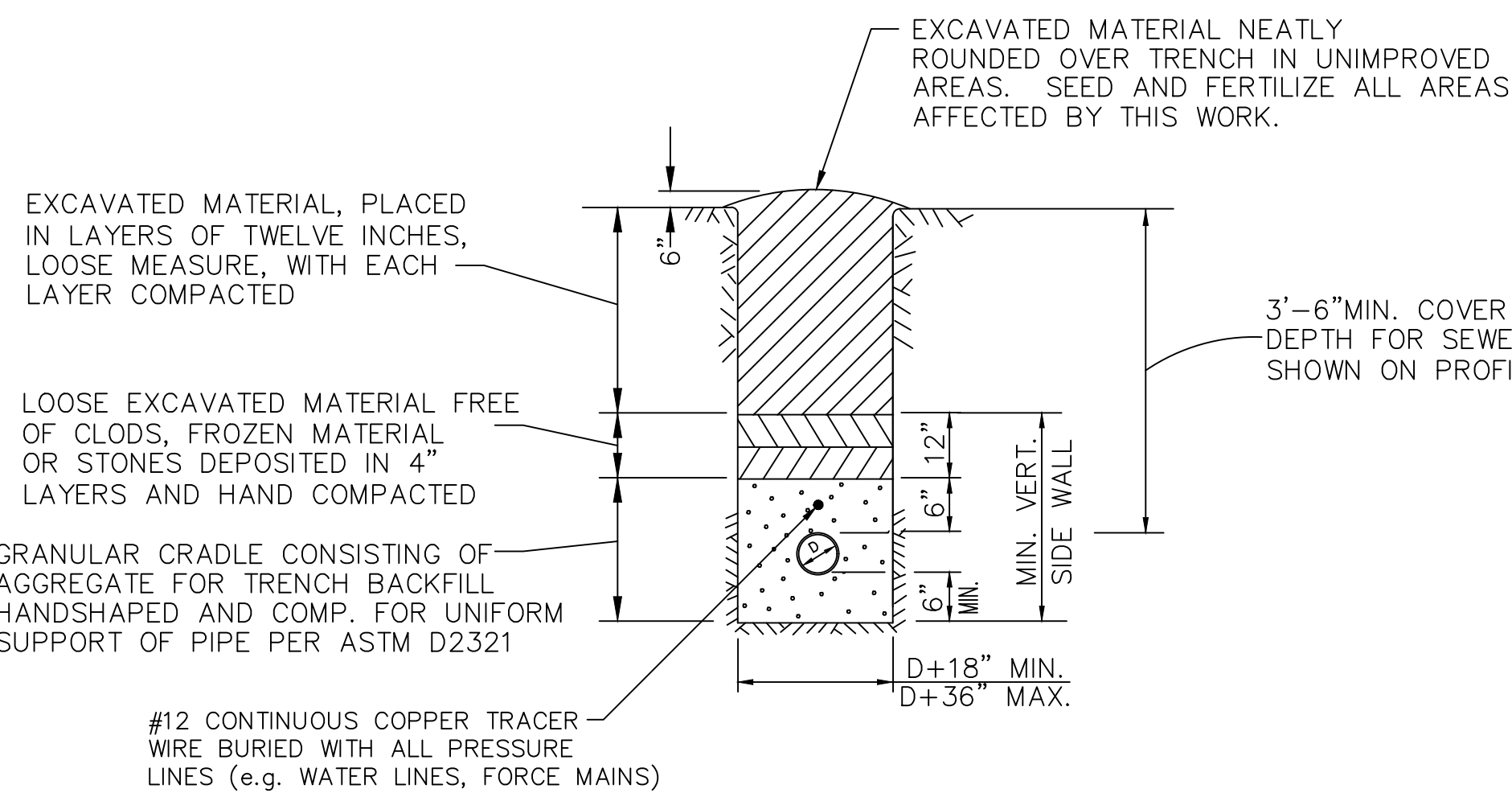
TYPICAL VALVE BOX INSTALLATION
NOT TO SCALE



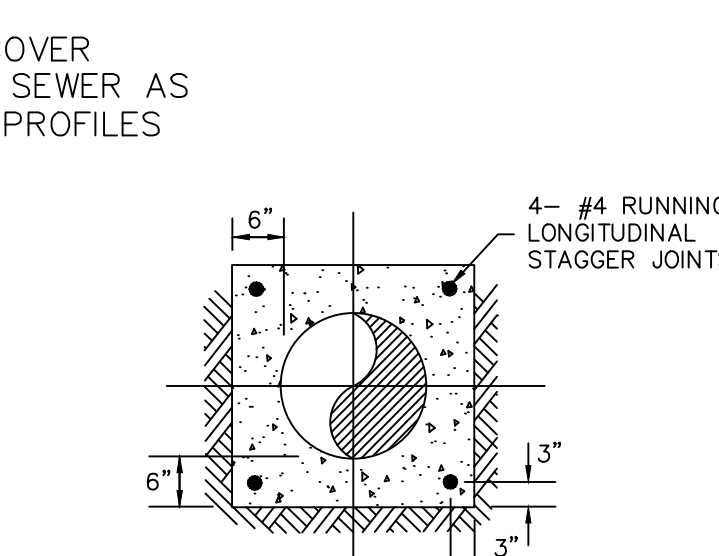
BLOWOFF DETAIL
NOT TO SCALE



TRENCH DETAIL IMPROVED AREA
NOT TO SCALE



TRENCH DETAIL UNIMPROVED AREA
NOT TO SCALE



TYPICAL SECTION CONCRETE ENCASEMENT
NOT TO SCALE

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Hillsboro, IL 62049
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MARION, IL
SPRINGFIELD, IL
ARNOLD, MO
NASHVILLE, TN

SIGNATURE: [Signature]
DATE: 04-24-2026
11-30-2027
LICENSE EXPIRES

S. BROAD STREET AND E. SEWARD STREET
WATERMAIN REPLACEMENT
CITY OF HILLSBORO
447 S. MAIN STREET
HILLSBORO, MONTGOMERY COUNTY, ILLINOIS 62049

MARK	DATE	DESCRIPTION

DATE: APRIL 2026
PROJECT NO: 850-1684
DESIGN: ZAY
DRAWN: AS
CHECK: JJC

WATERMAIN DETAILS

C-501
04 OF 04