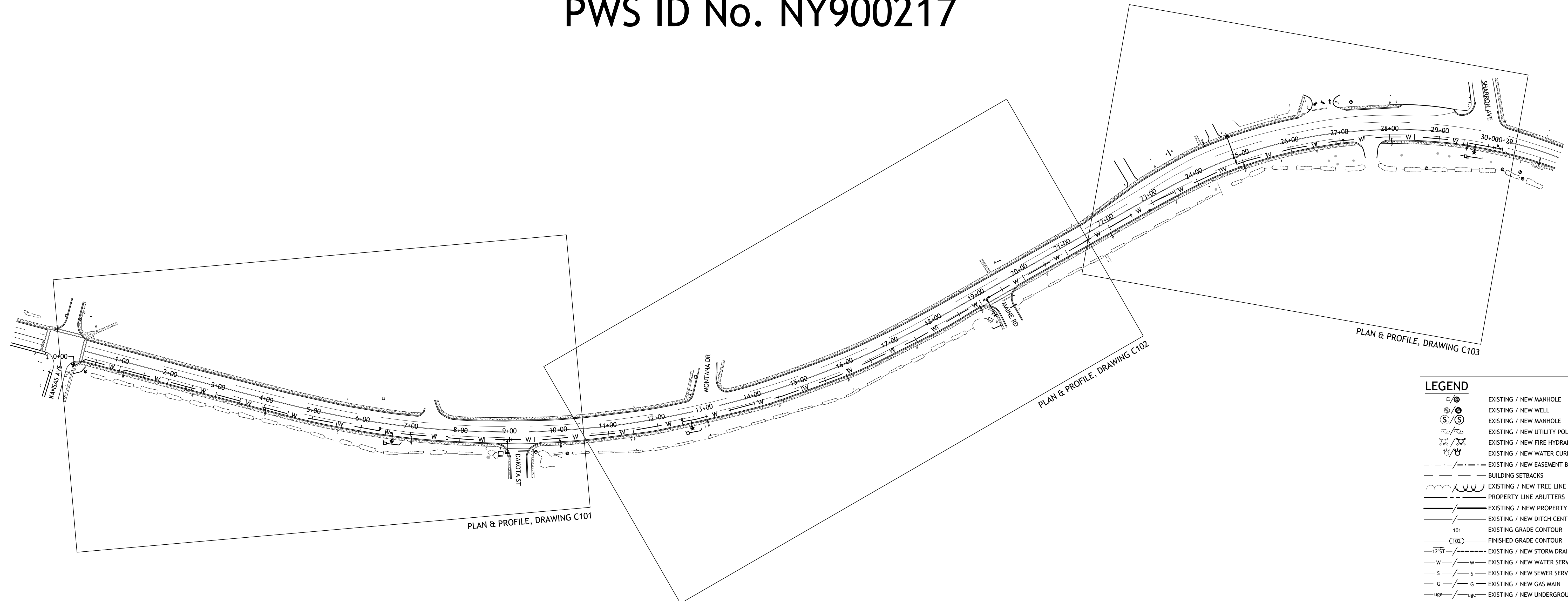


CITY OF PLATTSBURGH DPW

NEW YORK ROAD WATER MAIN REPLACEMENT PROJECT

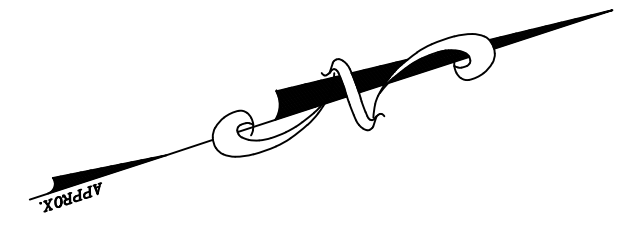
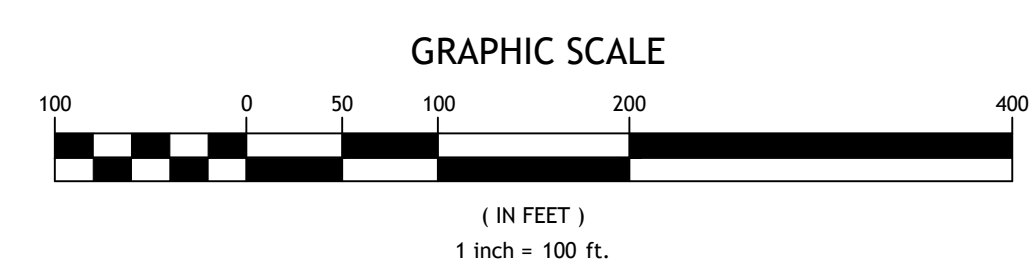
CITY OF PLATTSBURGH, CLINTON COUNTY, NY 12901

PWS ID No. NY900217



LEGEND

- EXISTING / NEW MANHOLE
- EXISTING / NEW WELL
- EXISTING / NEW MANHOLE
- EXISTING / NEW UTILITY POLE
- EXISTING / NEW FIRE HYDRANT
- EXISTING / NEW WATER CURB STOP
- EXISTING / NEW EASEMENT BOUNDARY
- BUILDING SETBACKS
- EXISTING / NEW TREE LINE
- PROPERTY LINE ABUTTERS
- EXISTING / NEW PROPERTY LINE
- EXISTING / NEW DITCH CENTERLINE
- EXISTING GRADE CONTOUR
- FINISHED GRADE CONTOUR
- EXISTING / NEW STORM DRAIN
- EXISTING / NEW WATER SERVICE
- EXISTING / NEW SEWER SERVICE
- EXISTING / NEW GAS MAIN
- EXISTING / NEW UNDERGROUND UTILITIES
- EXISTING / NEW OVERHEAD UTILITIES
- EXISTING / NEW BUILDING
- EXISTING / NEW CONCRETE CURB (FULL / DROP)
- EXISTING / NEW CONCRETE SIDEWALK / PAD
- EXISTING / NEW PAVEMENT
- EXISTING / NEW GRAVEL



SHEET LIST

SHEET NUMBER	SHEET NAME
1.	TITLE
T001	TITLE SHEET
2.	CIVIL
C101	WATERMAIN ALIGNMENT & PROFILE
C102	WATERMAIN ALIGNMENT & PROFILE
C103	WATERMAIN ALIGNMENT & PROFILE
C501	DETAILS
C502	DETAILS

LOCATION MAP



**CONSTRUCTION DOCUMENT
PHASE
SERVICES 100%**



TITLE SHEET

PROJECT NO. 21119
DATE 03-29-22
DRAWN BY DLL
CHECKED BY MSC

T001

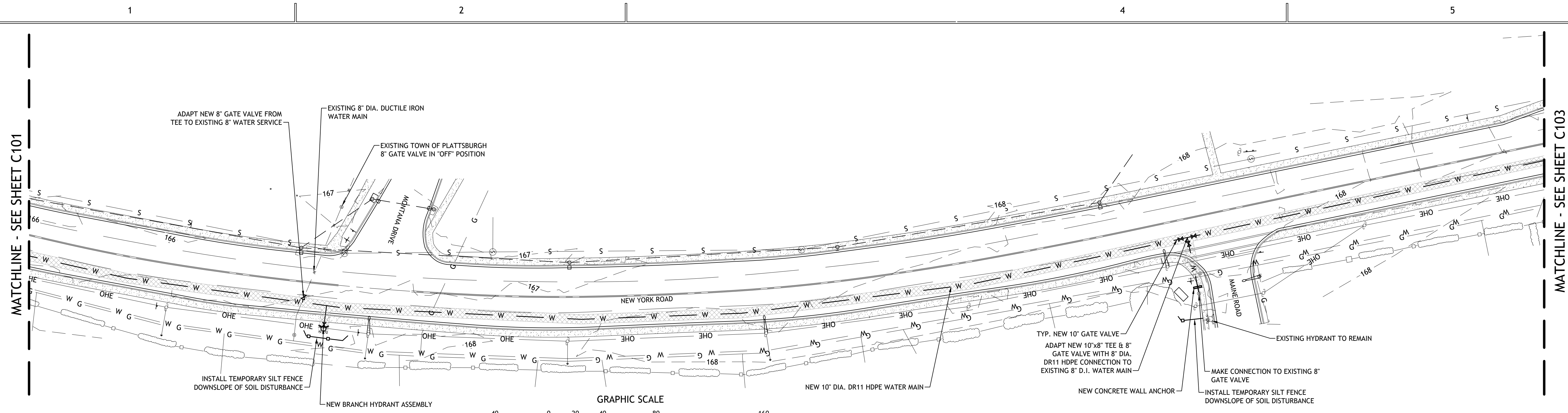


ARCHITECTURAL & ENGINEERING
DESIGN ASSOCIATES, P.C.
1246 State Route 3, P.O. Box 762
Plattsburgh, NY 12901
T: 518.562.1800 F: 518.562.1702
www.aedapc.com

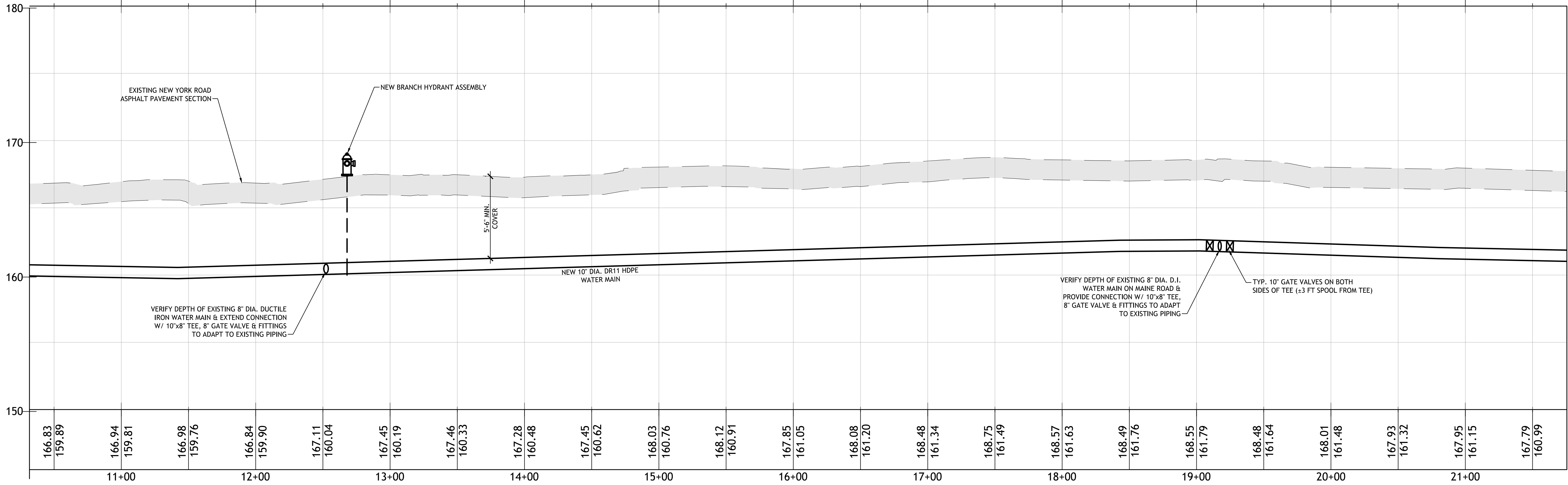
REVISIONS		
#	BY	DATE
1	DLL	03-29-22

WATERMAIN ALIGNMENT & PROFILE

PROJECT NO. 21119
 DATE 02-17-22
 DRAWN BY DLL
 CHECKED BY MSC



WATER MAIN ALIGNMENT
 SCALE: 1" = 40'



WATERMAIN PROFILE
 SCALE: 1 inch = 40 ft.

PIPE FUSION NOTES:
 1. PROJECT BID FORM INCLUDES AN ADD ALTERNATE TO INCLUDE IN THE PROJECT FURNISHING A NEW PIPE FUSION MACHINE EQUAL TO MCELROY 412 ROLLING FUSION MACHINE MODEL MCEA1248101 CAPABLE OF FUSING PIPE RANGING FROM 4" TO 12" DI'S. IN ADDITION PROVIDE ALL NECESSARY ACCESSORIES TO COMPLETE THE PIPE INSTALLATION SCOPE OF WORK AS IDENTIFIED HEREIN INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
 • 4" TO 20" PIPE STAND, MANUAL CHAIN HEIGHT A (MCE15070901), QUANTITY OF 2)
 • 10" IPS FUSION INSERT SET (MCE1207221, QUANTITY OF 1)
 • 8" IPS FUSION INSERT SET (MCE1207107, QUANTITY OF 1)
 • 6" IPS FUSION INSERT SET (MCE1207020, QUANTITY OF 1)
 2. PIPE FUSION EQUIPMENT IDENTIFIED ABOVE AS SOURCED FROM F.W. WEBB COMPANY, CONTACT: JOHN BONNETTE, (802) 309-1491
 3. THE INTENT WOULD BE FOR THE EQUIPMENT SPECIFIED ABOVE TO BE PURCHASED NEW, UTILIZED BY THE CONTRACTOR AS NECESSARY FOR THE COMPLETION OF THE WORK SCOPE HEREIN, AND FURNISHED TO THE OWNER IMMEDIATELY AFTER THE PROJECT COMPLETION.
 4. SHOULD THE BID ALTERNATE NOT BE AWARDED, CONTRACTOR SHALL CARRY ALL COSTS ASSOCIATED WITH EQUIPMENT TO COMPLETE THE PROJECT IN THE BASE BID.

SERVICE CONNECTION NOTES:
 1. TYPICAL EXISTING WATER SERVICES MAY INCLUDE CURB STOPS AND GATE VALVES. ALL EXISTING SERVICES ALONG THE LENGTH OF THE WATER MAIN REPLACEMENT SHALL BE CONNECTED TO THE NEW WATER MAIN AS PART OF THIS PROJECT.
 2. EACH EXISTING SERVICE LATERAL TO BE DISCONNECTED FROM ABANDONED WATER MAIN AND CONNECTED TO THE NEW WATER MAIN AFTER SUCCESSFUL FLUSHING & TESTING OF MAIN IN CONFORMANCE WITH CLINTON COUNTY HEALTH DEPARTMENT STANDARDS.
 3. EXISTING SERVICE CURB STOP & LATERAL TO REMAIN WHERE IDENTIFIED HEREIN, OTHERWISE IT SHALL BE PRESUMED ALL SERVICE CONNECTIONS WILL REQUIRE A NEW CURB STOP OR GATE VALVE AS APPROPRIATE.
CITY OF PLATTSBURGH DPW COORDINATION:
 1. DEPARTMENT OF PUBLIC WORKS WILL HAVE AN ON-SITE REPRESENTATIVE THROUGHOUT CONSTRUCTION.
 2. DEPARTMENT OF PUBLIC WORKS WILL RECORD AS-BUILT LOCATIONS OF UNDERGROUND INFRASTRUCTURE AS WORK PROGRESSES. CONTRACTOR TO ALLOW SUITABLE AND SAFE ACCESS TO THE WORK AREA FOR AS-BUILT SURVEY WORK BY DPW. ANY NECESSARY OPERATION OF EXISTING VALVES SHALL ONLY BE PERFORMED BY DEPARTMENT OF PUBLIC WORKS PERSONNEL. CONTRACTOR TO GIVE ON-SITE REPRESENTATIVE AS MUCH PRIOR NOTICE OF NEED TO OPERATE EXISTING VALVES AS FEASIBLE. SHOULD CONTRACTOR PROCEED WITH UNAUTHORIZED USE OF EXISTING VALVES, CONTRACTOR IS RESPONSIBLE FOR EXPENSES FOR DAMAGES CAUSED DURING VALVE OPERATIONS & CONSTRUCTION. UNLESS OTHERWISE SPECIFIED, ANY AND ALL DAMAGES SHALL BE REPAIRED WITH THE SAME OR BETTER MATERIALS, AT THE CONTRACTOR'S EXPENSE.
 3. DEPARTMENT OF PUBLIC WORKS WILL COORDINATE WITH THE TOWN OF PLATTSBURGH FOR ALL CONNECTIONS TO TOWN OF PLATTSBURGH WATER MAINS.

TRAFFIC CONTROL:
 1. CONTRACTOR IS RESPONSIBLE FOR ALL TRAFFIC CONTROL INCLUDING BUT NOT LIMITED TO FLAGGING OPERATIONS, TEMPORARY BARRIERS, SIGNS, ETC.
 2. SEE DETAIL SHEETS FOR COMMON TRAFFIC CONTROL REQUIREMENTS ASSOCIATED WITH SINGLE LANE AND DOUBLE LANE CLOSURES, FIELD VERIFY LANE CLOSURE REQUEST/OPERATION WITH DEPARTMENT OF PUBLIC WORKS ON A DAILY BASIS.
 3. CONTRACTOR MUST OBTAIN PRIOR APPROVAL FOR ANY OVERNIGHT LANE CLOSURE FROM DEPARTMENT OF PUBLIC WORKS.

LEGEND

	EXT G VALVE BOX		UNDERGROUND TELEPHONE
	EXT G GATE VALVE		UNDERGROUND UTILITIES
	EXT G HYDRANT		EXT G SEWER MAIN
	EXT G SEWER MANHOLE		EXT G GAS MAIN
	EXT G DMH / CB / INLET PROTECTION		EXT G STORM SEWER
	EXT G UTILITY VAULT		EXT G CONC. SIDEWALK
	RIGHT-OF-WAY LIMITS		ASPHALT PAVEMENT
	PROPERTY LINE		
	EXT G WATER MAIN OUTSIDE OF PROJECT		
	EXT G WATER MAIN		
	EXT G ABANDONED WATER MAIN		
	OVERHEAD ELEC., TELE. & CABLE		

PROPOSED IMPROVEMENTS

	NEW GATE VALVE LOCATION
	NEW HYDRANT LOCATION
	NEW CURB STOP LOCATION
	NEW WATER MAIN LOCATION

WATER FLUSHING & TESTING NOTE:
 AFTER INSTALLATION, THE WATER SYSTEM WILL BE PRESSURE AND LEAKAGE TESTED IN ACCORDANCE WITH THE LATEST EDITION OF AWWA STANDARD C600. AFTER INSTALLATION THE WATER SYSTEM WILL BE FLUSHED, DISINFECTED, AND TESTED IN ACCORDANCE WITH AWWA STANDARD C651 PRIOR TO USE. ALL TESTS SHALL BE PERFORMED UNDER DIRECT SUPERVISION BY THE CITY OF PLATTSBURGH PUBLIC WORKS DEPARTMENT AND THE OWNER. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL WORK WITH THE CITY OF PLATTSBURGH. TESTING RESULTS WILL BE SUBMITTED TO THE DESIGN ENGINEER FOR COORDINATION WITH THE CLINTON COUNTY HEALTH DEPARTMENT AND ANY OTHER AUTHORITY HAVING JURISDICTION AS AN ATTACHMENT TO THE DESIGN ENGINEER'S LETTER OF COMPLETED WORKS.

EXISTING MAINS TAKEN OUT OF SERVICE:
 EXISTING WATER MAINS SHALL BE CUT, CAPPED WATERTIGHT AND TAKEN OUT OF SERVICE CONCURRENT WITH OR AFTER EACH PORTION OF THE NEW MAINS ARE INSTALLED, TESTED, AND MADE OPERATIONAL. MAINS TAKEN OUT OF SERVICE ARE TO BE GROUTED WITH LOW-STRENGTH CONCRETE MATERIAL (FLOWABLE FILL). THE CONTRACTOR SHALL GROUT INFILL THE ENTIRE LENGTH OF PIPE TO BE TAKEN OUT OF SERVICE. ANY EXPOSURE/INTERACTION WITH ASBESTOS PIPING SHALL BE HANDLED IN COMPLIANCE WITH NEW YORK STATE LABOR LAW & INDUSTRIAL CODE RULE 56. UTILIZE CONCURRENT VACUUM SUCTION AND PRESSURE GROUTING AS NECESSARY TO ENSURE COMPLETE INFILL OF FORMER PIPING SYSTEM.

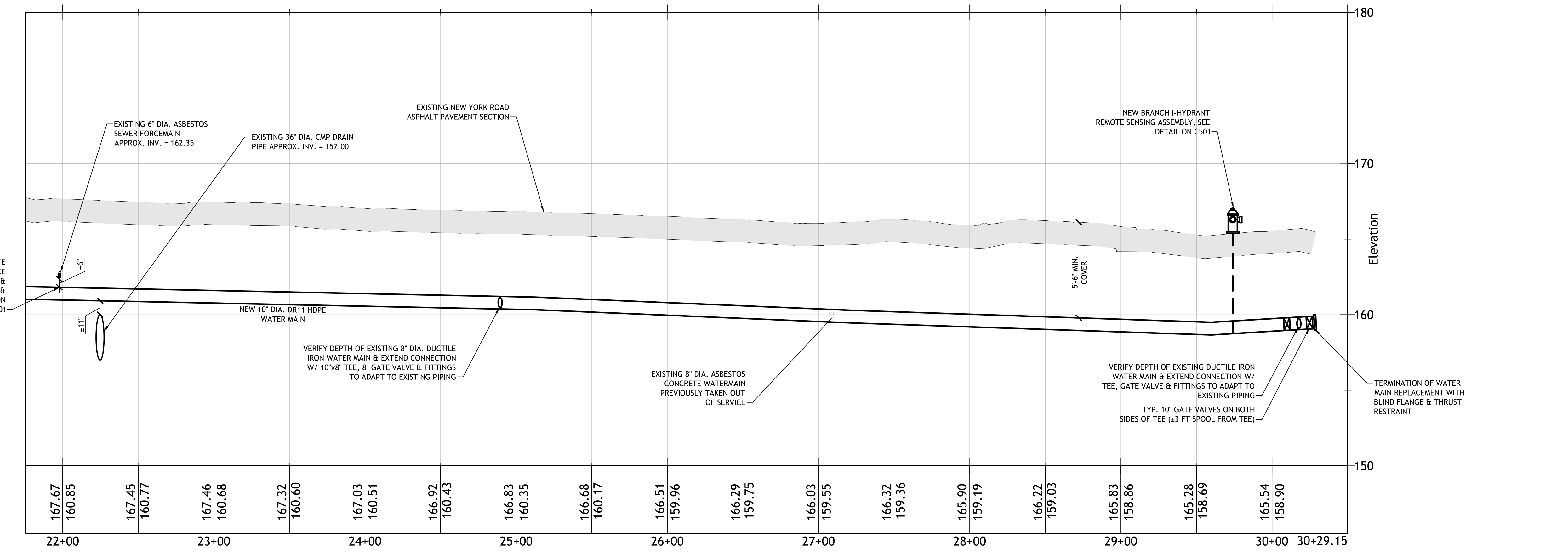
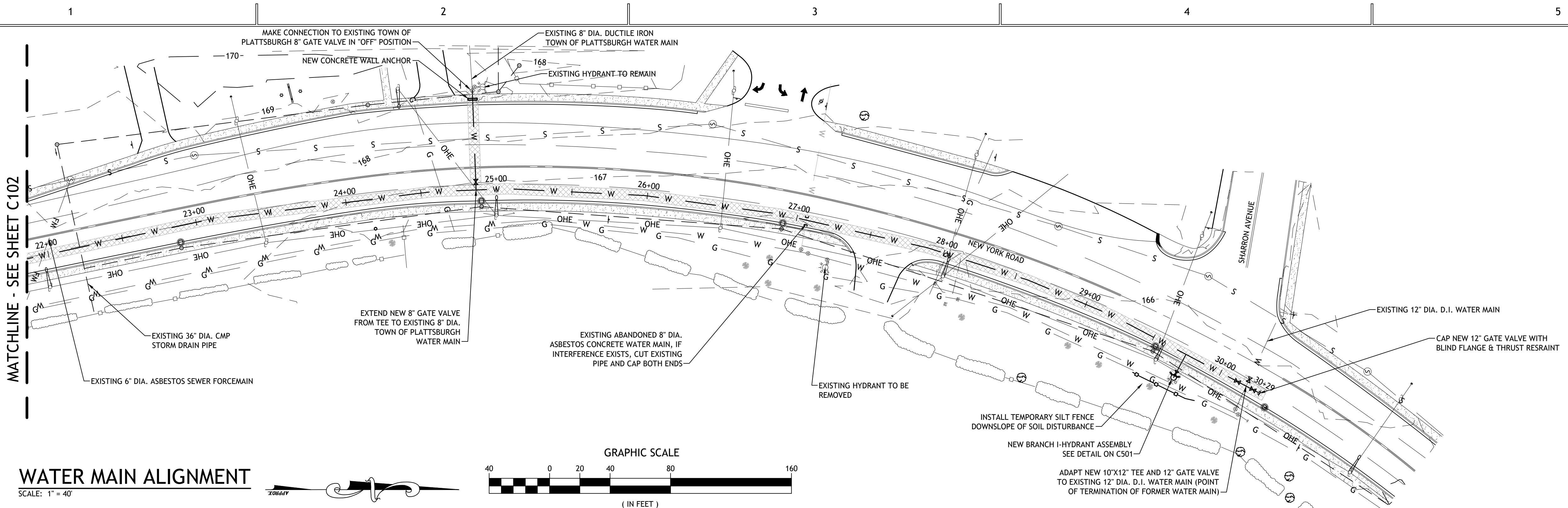
REQUIREMENT FOR BOIL WATER ORDER:
 THIS PROJECT MAY RESULT IN A SHUT-DOWN OF WATER INCLUDING LOSS OF PIPE PRESSURE TO ONE OR MORE PORTIONS OF THE DISTRIBUTION AREA. TEMPORARY BOIL WATER ORDERS (BWOS) SHOULD BE COORDINATED WITH THE AUTHORITY HAVING JURISDICTION. CONTACT THE REGULATORY AUTHORITY 24-HOURS IN ADVANCE OF SCHEDULED/PLANNED WATER SHUT-DOWNS TO ARRANGE FOR SUCH BWOS. IF AT ANY OTHER TIME, EXISTING AND/OR NEW WATER MAIN OR WATER SYSTEM COMPONENTS ARE DAMAGED DURING CONSTRUCTION AND/OR A LOSS OF WATER PRESSURE OCCURS AS PART OF THIS PROJECT, THE REGULATORY AUTHORITY SHOULD BE CONTACTED FOR DETERMINATION OF BWOS.

REVISIONS		
#	BY	DATE
1	DLL	03-29-22

WATERMAIN ALIGNMENT & PROFILE

PROJECT NO. 21119
 DATE 02-17-22
 DRAWN BY DLL
 CHECKED BY MSC

C103



- UTILITY CONSTRUCTION GENERAL NOTES**
- CONTRACTOR TO VERIFY LOCATION AND SIZES OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION (COORDINATE W/ UFPO @ 800-962-7962 OR PROPERTY OWNER IF AREA NOT RECOGNIZED BY UFPO).
 - ALL EXCAVATIONS SHALL BE BACKFILLED TO EXISTING GRADE AT THE END OF EACH WORK DAY. EXCAVATIONS NOT BACKFILLED SHALL BE FENCED OFF AND PROTECTED AS REQUIRED OR ORDERED BY THE ENGINEER.
 - THE PLANS SHOW SUBSURFACE STRUCTURES, ABOVE GROUND STRUCTURES, AND/OR UTILITIES FROM FILED LOCATIONS AND RECORD MAPPING. EXACT LOCATIONS OF THESE ITEMS MAY VARY FROM THE LOCATIONS INDICATED. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS AND RELATIONS TO OTHER WORK AND ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION & NOTIFY THE ENGINEERS IN WRITING OF ANY DISCREPANCIES.
 - THE CONTRACTOR'S WORK SHALL NOT VARY FROM THE PLANS WITHOUT WRITTEN APPROVAL OF THE ENGINEER.
 - IN SO FAR AS PRACTICABLE, EXISTING VEGETATION SHALL BE PRESERVED UNTIL PERMANENT VEGETATIVE COVER CAN BE ESTABLISHED. FOLLOWING COMPLETION OF CONSTRUCTION ALL PORTIONS OF THE SITE DISTURBED BY THE CONTRACTOR SHALL RECEIVE TOPSOIL, SEED AND MULCH. CONTRACTOR TO ENSURE ESTABLISHMENT OF VEGETATIVE COVER ON ALL EXPOSED SOIL AREAS.
 - DITCH LINES DISTURBED DURING CONSTRUCTION SHALL BE REGRADED TO ORIGINAL SLOPES, DEPTHS, AND INVERTS AS SOON AS PRACTICAL AFTER CONTRACT WORK IS COMPLETED.
 - IN NO CASE SHALL ERODIBLE MATERIALS BE STOCKPILED WITHIN 25 FEET OF ANY DITCH, STREAM OR OTHER SURFACE WATER BODY.
 - THE CONTRACTOR SHALL RESTORE LAWNS, DRIVEWAYS, CURBS, CULVERTS, SIGNS AND OTHER PUBLIC OR PRIVATE PROPERTY DAMAGED OR REMOVED TO AT LEAST AS GOOD A CONDITION AS BEFORE BEING DISTURBED.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND INCURRING THE COST OF ALL REQUIRED PERMITS, INSPECTIONS, CERTIFICATES, ETC. AND SHALL COMPLY WITH ALL REQUIRED PERMITS.
 - ALL WORK SHALL BE DONE IN STRICT COMPLIANCE WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES, STANDARDS, ORDINANCES, RULES AND REGULATIONS.
 - PRIOR TO THE START OF CONSTRUCTION EROSION AND SEDIMENT CONTROLS SHALL BE INSTALLED AS SHOWN AND/OR DESCRIBED HEREIN, WITH ADDITIONAL INSTALLED AS FIELD CONDITIONS DICTATE. ALL EROSION CONTROL MEASURES SHALL BE KEPT IN GOOD CONDITION UNTIL FINAL VEGETATIVE COVER IS ESTABLISHED, AT WHICH TIME THE CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES.
 - THE CONTRACTOR SHALL MAINTAIN IN PLACE ALL BURIED UTILITIES INCLUDING BUT NOT LIMITED TO PIPES, DRAINAGE CULVERTS, UNDERGROUND GAS, TELEPHONE AND ELECTRIC UNLESS OTHERWISE NOTED ON THE PLANS, AND SHALL ASSUME ALL COSTS AND EXPENSES FOR DAMAGES CAUSED DURING CONSTRUCTION, UNLESS OTHERWISE SPECIFIED, ANY AND ALL DAMAGES SHALL BE REPAIRED WITH THE SAME OR BETTER MATERIALS, AT THE CONTRACTORS EXPENSE.
 - THE CONTRACTOR SHALL REMOVE ALL SOIL AND DEBRIS FROM THE STREET/DRIVEWAY SURFACES INCLUDING BUT NOT LIMITED TO SWEEPING AT THE END OF EACH WORK DAY UNLESS INSTRUCTED OTHERWISE.
 - THE CONTRACTOR SHALL AT ALL TIMES EXERCISE CAUTION IN HIS OPERATION AND PROVIDE FOR THE SAFETY AND PROTECTION OF ALL PERSONS ON OR ABOUT THE SITE. ALL PROVISIONS OF JOB SAFETY AND HEALTH STANDARDS AS REQUIRED BY THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) AND THE NYS DEPARTMENT OF LABOR SHALL BE OBSERVED BY THE CONTRACTOR INCLUDING BUT NOT LIMITED TO USE OF APPROPRIATE TRENCH BOXES & TRENCH ACCESS/EGRESS.
 - ALL PROPOSED UTILITIES AND APPURTENANCES TO BE CONSTRUCTED IN COMPLIANCE WITH THE LOCAL MUNICIPALITIES CODE & STANDARDS GOVERNING THE INSTALLATION OF SUCH UTILITIES.
 - MISCELLANEOUS WORK NOT SPECIFICALLY SHOWN ON THE CONTRACT DRAWINGS SUCH AS PATCHING, SHORING, TRIMMING, ETC. SHALL BE PERFORMED AS REQUIRED TO MAKE THE WORK COMPLETE.
 - IT IS THE CONTRACTORS RESPONSIBILITY TO EXAMINE ALL PLAN SHEETS AND TO COORDINATE WORK WITH ALL OTHER CONTRACTORS AND PROPERTY OWNER FOR THE SITE.
 - PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL STAKE/MARK OUT ALL ELEMENTS OF THE PROJECT (ENGINEER TO FIELD VERIFY LOCATIONS). STAKEOUT SHALL INCLUDE CENTERLINE ROAD STAKES AT MINIMUM OF 50 FT STATION INCREMENTS.
 - INSTALLATION METHODS FOR PIPE MATERIALS SHALL BE IN CONFORMANCE WITH MANUFACTURER'S REQUIREMENTS INCLUDING BUT NOT LIMITED TO ALLOWABLE DEFLECTION, JOINT MATERIALS & LUBRICANTS, ETC.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING TO ACHIEVE A DRY LINING FOR PIPE INSTALLATION AND THE MAINTENANCE OF SURFACE DRAINAGE DURING CONSTRUCTION. CONTRACTOR SHALL MAINTAIN EXISTING SITE DRAINAGE PATTERNS THROUGHOUT CONSTRUCTION.
 - ALL FRAMES/COVERS WITHIN PAVED AREAS SHALL HAVE THE TOPS SET FLUSH WITH PAVEMENT SURFACE GRADE. IN LANDSCAPED AREAS, ALL FRAMES SHALL BE 0.1' ABOVE GRADE.
 - BACKFILL MATERIAL WITHIN OPEN CUT EXCAVATIONS SHALL MATCH EXISTING MATERIALS IN TYPE AND DEPTH TO MINIMIZE DIFFERENTIAL SETTLING.
 - CONTRACTOR SHALL REVIEW NOTES ON ALL PLAN SHEETS TO ESTABLISH ALL REQUIREMENTS & SCOPE OF WORK FOR THE PROJECT.

LEGEND

- EXTG VALVE BOX
- EXTG GATE VALVE
- EXTG HYDRANT
- EXTG SEWER MANHOLE
- EXTG DMH / CB / INLET PROTECTION
- EXTG UTILITY VAULT
- RIGHT-OF-WAY LIMITS
- PROPERTY LINE
- EXTG WATER MAIN OUTSIDE OF PROJECT
- EXTG WATER MAIN TO BE ABANDONED
- EXTG ABANDONED WATER MAIN
- OVERHEAD ELEC., TELE. & CABLE
- UNDERGROUND TELEPHONE
- UNDERGROUND UTILITIES
- EXTG SEWER MAIN
- EXTG GAS MAIN
- EXTG STORM SEWER
- EXTG CONC. SIDEWALK
- ASPHALT PAVEMENT
- NEW GATE VALVE LOCATION
- NEW HYDRANT LOCATION
- NEW CURB STOP LOCATION
- NEW WATER MAIN LOCATION

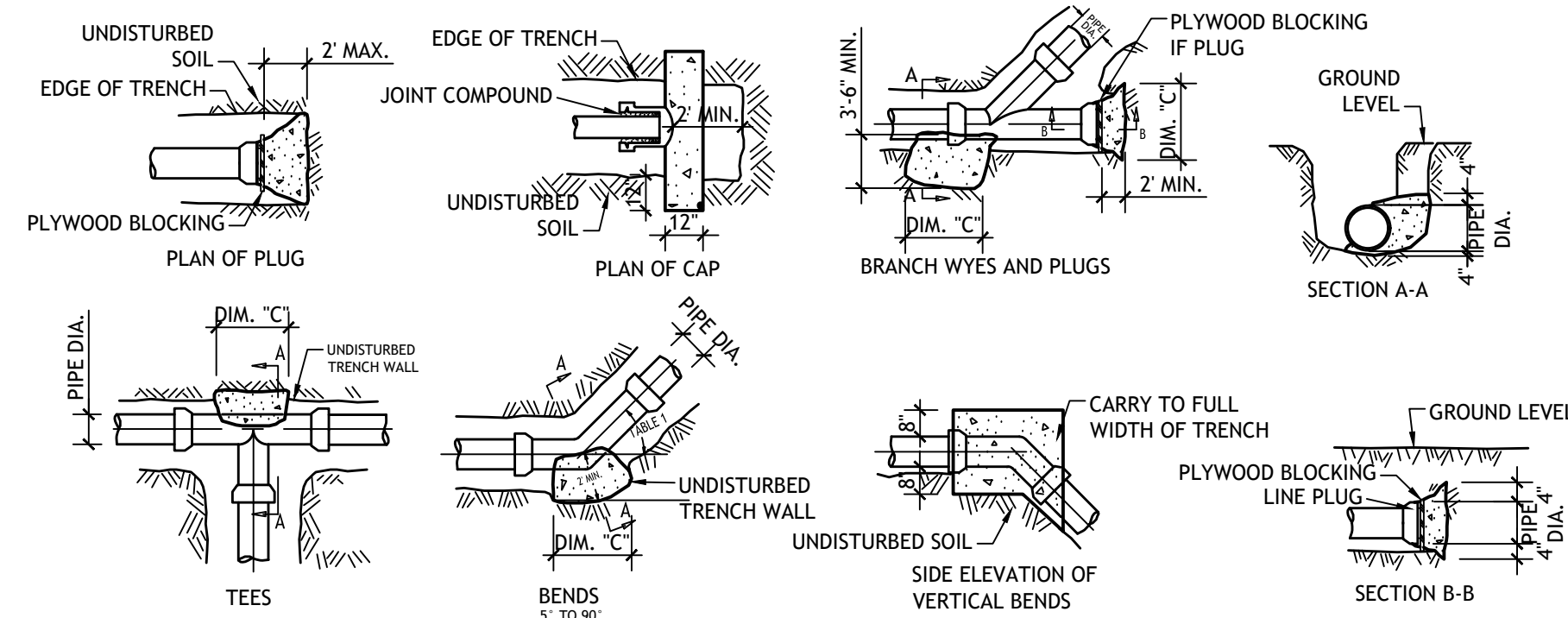
PROPOSED IMPROVEMENTS

- NEW GATE VALVE LOCATION
- NEW HYDRANT LOCATION
- NEW CURB STOP LOCATION
- NEW WATER MAIN LOCATION

WATER FLUSHING & TESTING NOTE:
 AFTER INSTALLATION, THE WATER SYSTEM WILL BE PRESSURE AND LEAKAGE TESTED IN ACCORDANCE WITH THE LATEST EDITION OF AWWA STANDARD C600. AFTER INSTALLATION THE WATER SYSTEM WILL BE FLUSHED, DISINFECTED, AND TESTED IN ACCORDANCE WITH AWWA STANDARD C651 PRIOR TO USE. ALL TESTS SHALL BE PERFORMED UNDER DIRECT SUPERVISION BY THE CITY OF PLATTSBURGH PUBLIC WORKS DEPARTMENT AND THE OWNER. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL WORK WITH THE CITY OF PLATTSBURGH. TESTING RESULTS WILL BE SUBMITTED TO THE DESIGN ENGINEER FOR COORDINATION WITH THE CLINTON COUNTY HEALTH DEPARTMENT AND ANY OTHER AUTHORITY HAVING JURISDICTION AS AN ATTACHMENT TO THE DESIGN ENGINEER'S LETTER OF COMPLETED WORKS.

EXISTING MAINS TAKEN OUT OF SERVICE:
 EXISTING WATER MAINS SHALL BE CUT, CAPPED WATERTIGHT AND TAKEN OUT OF SERVICE CONCURRENT WITH OR AFTER EACH PORTION OF THE NEW MAINS ARE INSTALLED, TESTED, AND MADE OPERATIONAL. MAINS TAKEN OUT OF SERVICE ARE TO BE GROUTED WITH LOW-STRENGTH CONCRETE MATERIAL (FLOWABLE FILL). THE CONTRACTOR SHALL GROUT INFILL THE ENTIRE LENGTH OF PIPE TO BE TAKEN OUT OF SERVICE. ANY EXPOSURE/INTERACTION WITH ASBESTOS PIPING SHALL BE HANDLED IN COMPLIANCE WITH NEW YORK STATE LABOR LAW & INDUSTRIAL CODE RULE 56. UTILIZE CONCURRENT VACUUM SUCTION AND PRESSURE GROUTING AS NECESSARY TO ENSURE COMPLETE INFILL OF FORMER PIPING SYSTEM.

REQUIREMENT FOR SOIL WATER ORDER:
 THIS PROJECT MAY RESULT IN A SHUT-DOWN OF WATER INCLUDING LOSS OF PIPE PRESSURE TO ONE OR MORE PORTIONS OF THE DISTRIBUTION AREA. TEMPORARY BOIL WATER ORDERS (BWO) SHOULD BE COORDINATED WITH THE AUTHORITY HAVING JURISDICTION. CONTACT THE REGULATORY AUTHORITY 24-HOURS IN ADVANCE OF SCHEDULED/PLANNED WATER SHUT-DOWNS TO ARRANGE FOR SUCH BWO'S. IF AT ANY OTHER TIME, EXISTING AND/OR NEW WATER MAIN OR WATER SYSTEM COMPONENTS ARE DAMAGED DURING CONSTRUCTION AND/OR A LOSS OF WATER PRESSURE OCCURS AS PART OF THIS PROJECT, THE REGULATORY AUTHORITY SHOULD BE CONTACTED FOR DETERMINATION OF BWO'S.

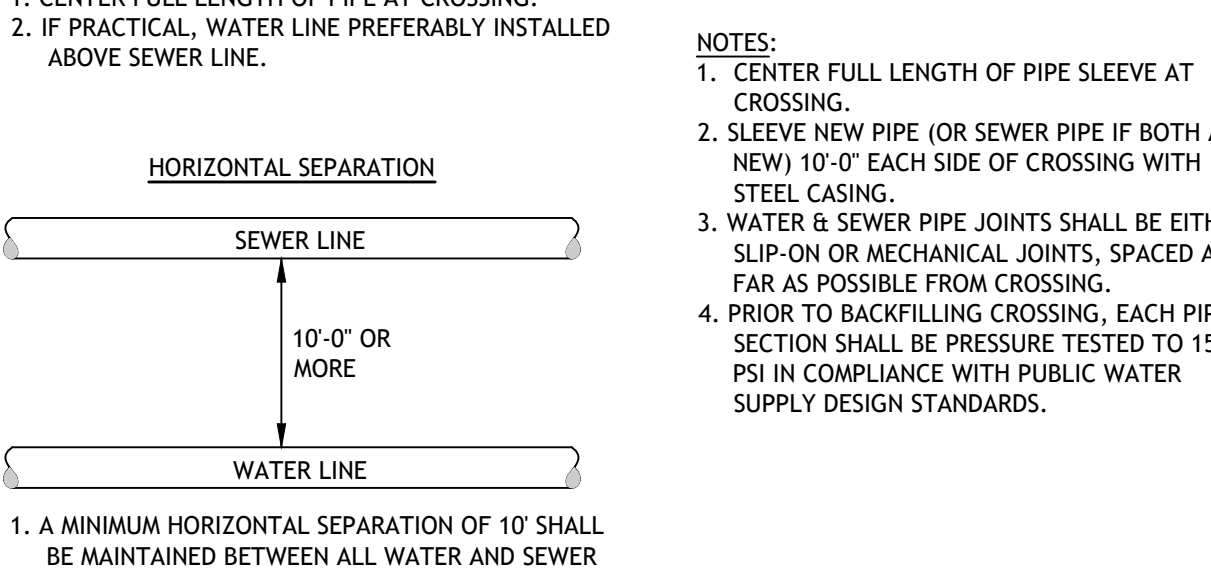
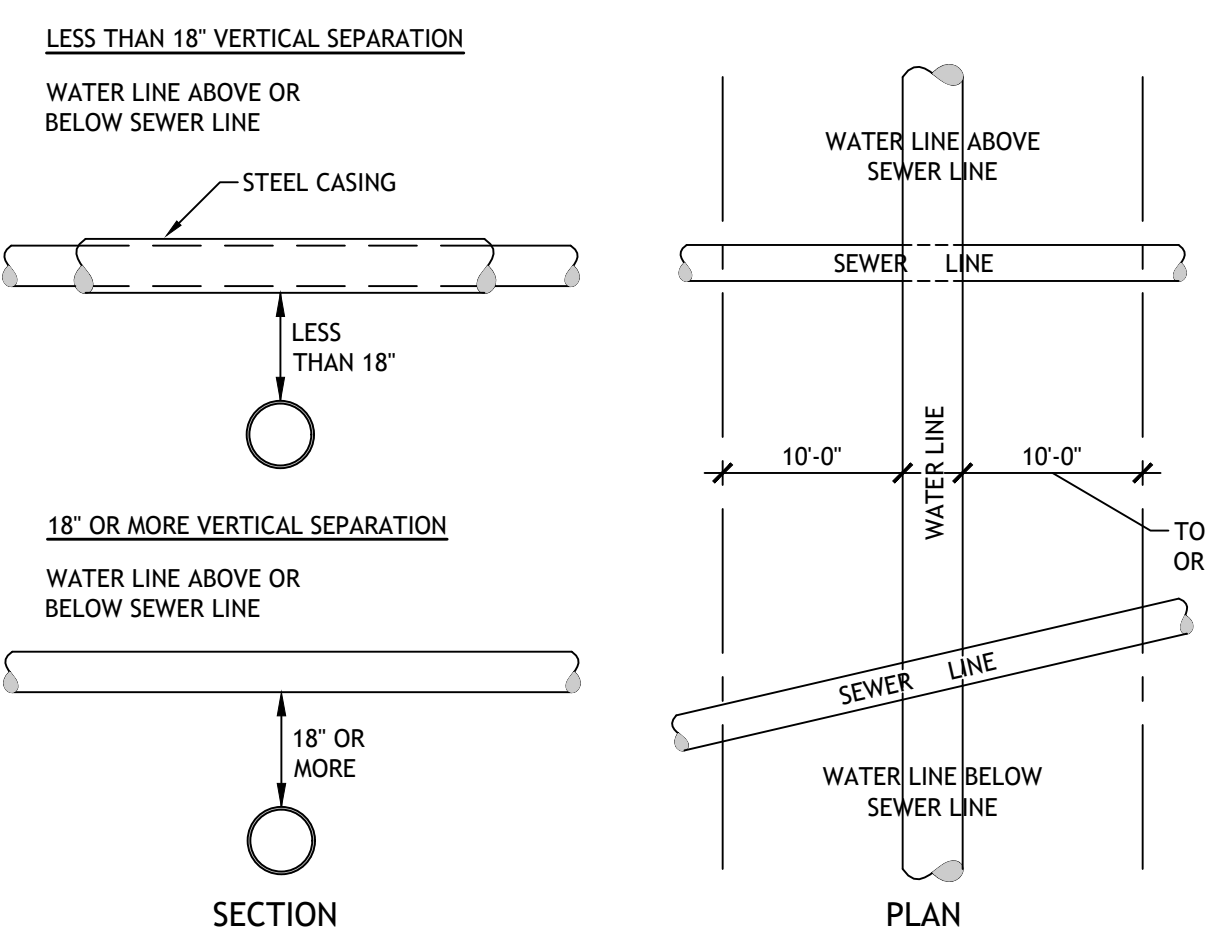


PIPE DIA. IN.	5' - 22.5'		22.5' - 45'		45' - 67.5'		67.5' - 90'	
	C FT.-IN.	CONC. C.Y.	C FT.-IN.	CONC. C.Y.	C FT.-IN.	CONC. C.Y.	C FT.-IN.	CONC. C.Y.
8	0.4	0.03	0.8	0.07	1.0	0.10	1.3	0.14
10	0.6	0.07	1.1	0.14	1.5	0.21	1.9	0.26
12	0.8	0.11	1.4	0.22	1.9	0.33	2.4	0.44

PIPE DIA. IN.	C FT.-IN.	C.Y. OF CONCRETE	
		TEES & PLUGS	WYES
8	0.9	0.09	0.13
10	1.2	0.18	0.25
12	1.6	0.30	0.42

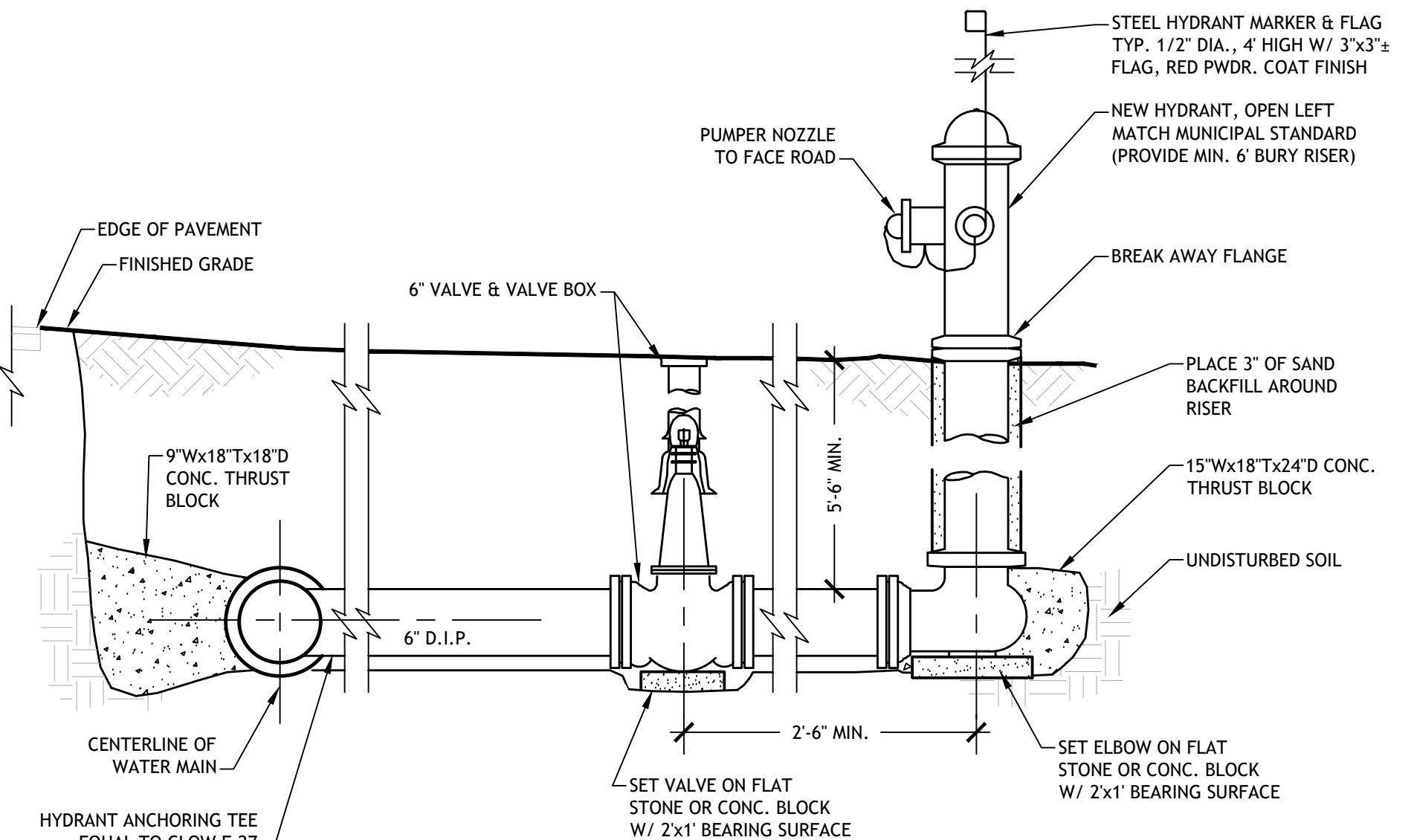
THRUST BLOCK TABLES & DETAILS

N.T.S.



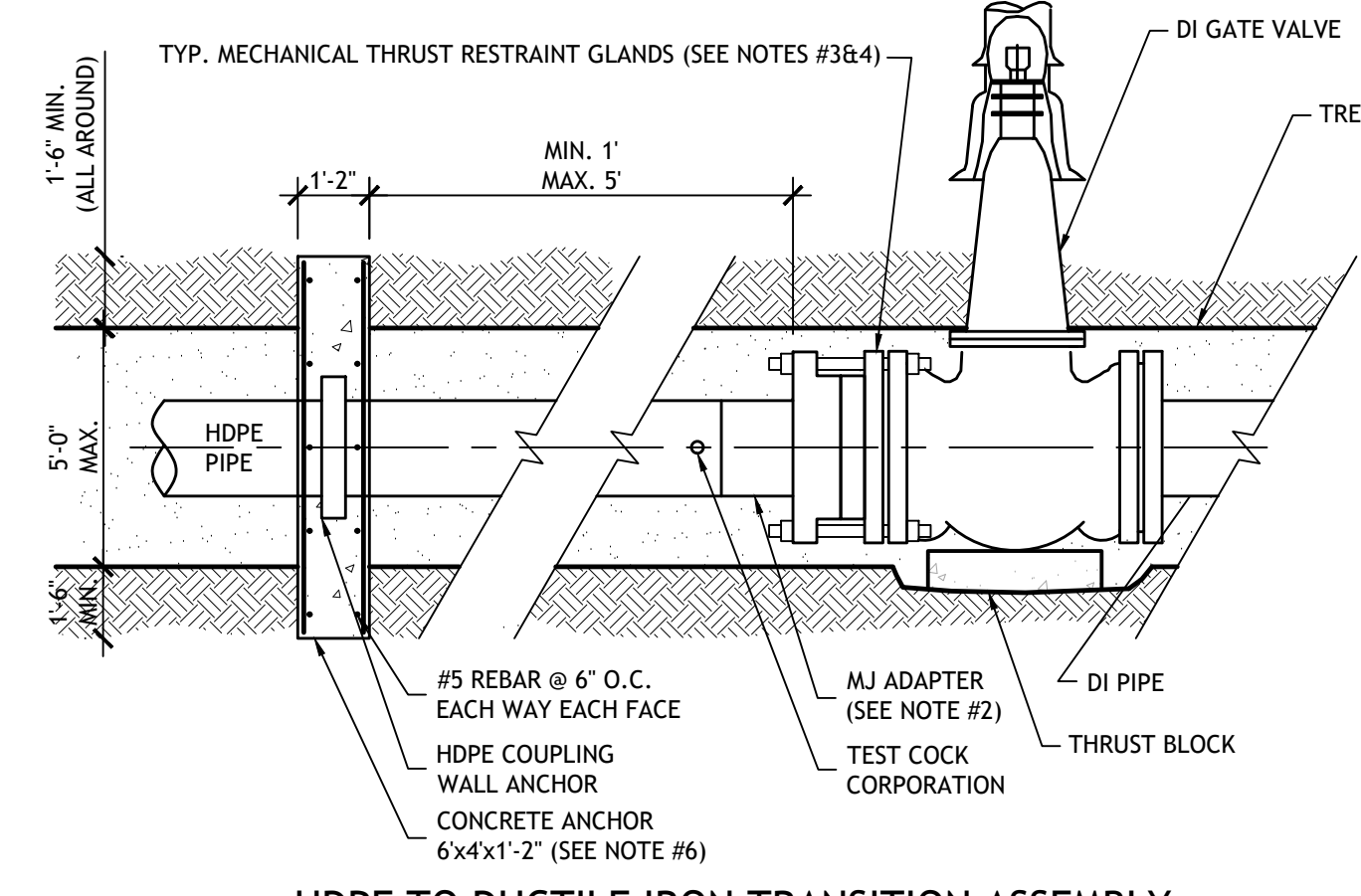
WATER & SEWER PIPE SEPARATION DETAIL

N.T.S.

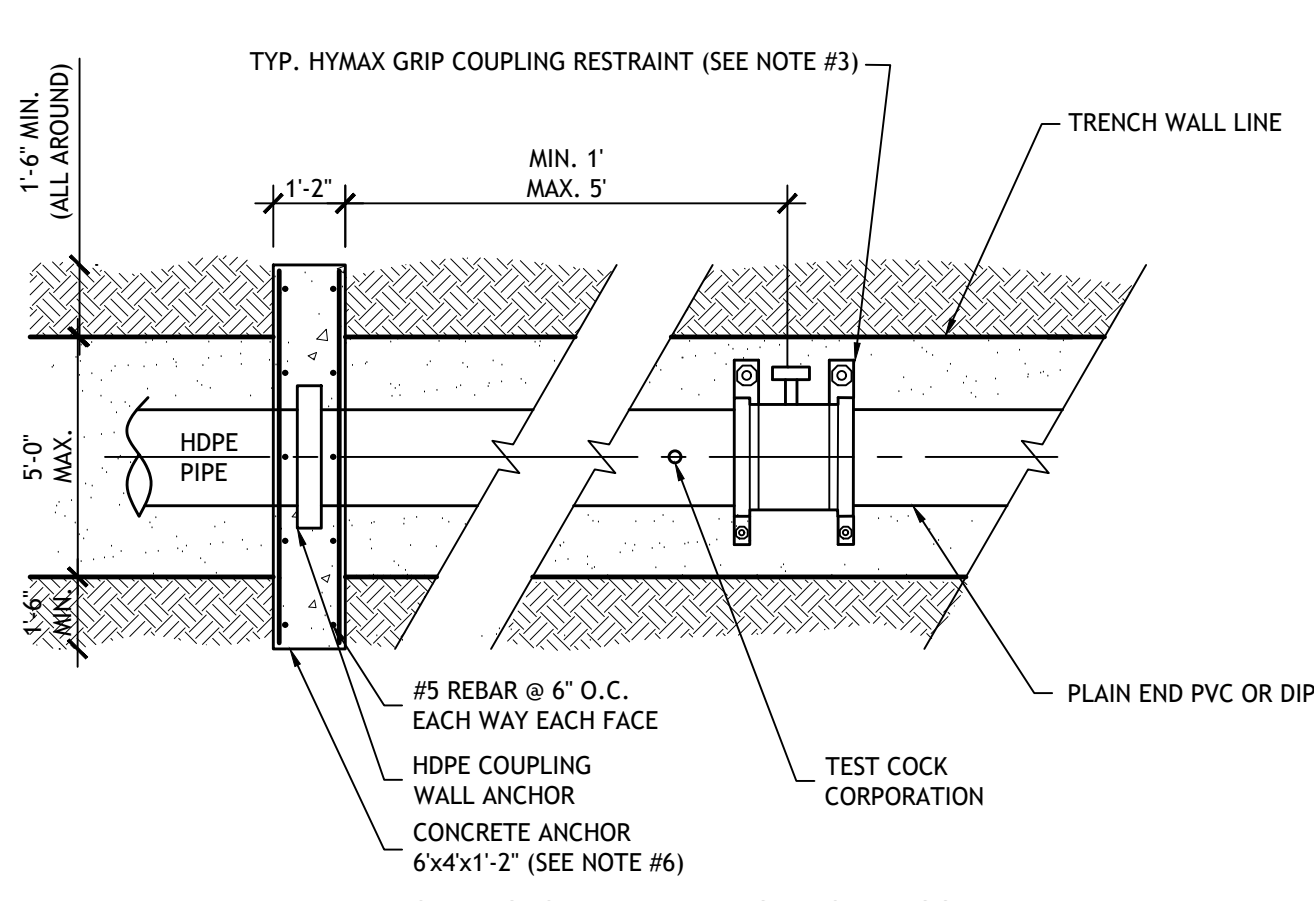


TYP. HYDRANT DETAIL

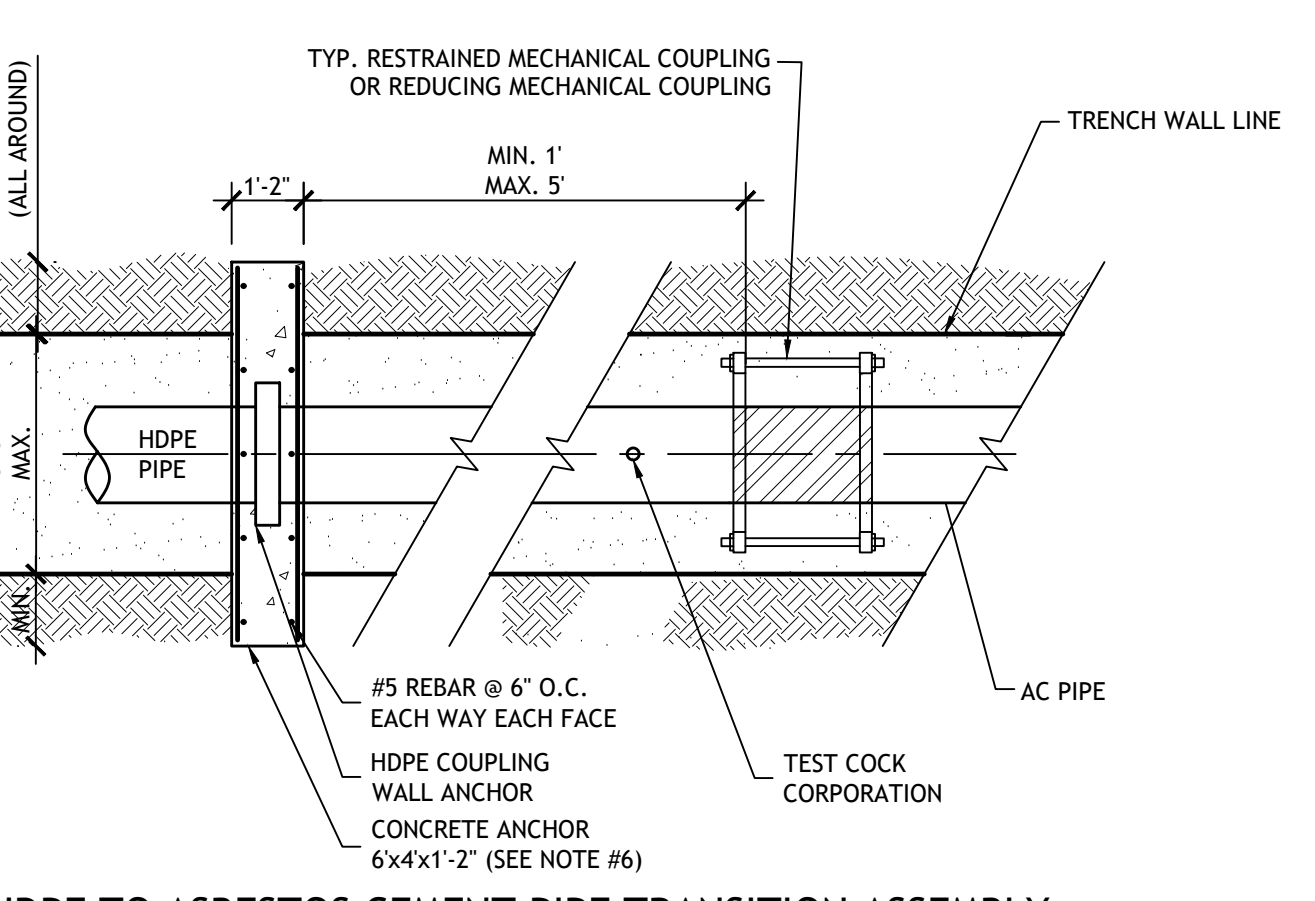
- N.T.S.
- NOTES:
1. HYDRANTS SHALL BE THE FOLLOWING MODELS W/ DRAIN COLOR RED:
A. TYP. HYDRANT: MODEL F-2641 "EDDY" AS MANUFACTURED BY CLOW VALVE CO.
B. I-HYDRANT: MODEL F-2545IHL "MEDALLION" AS MANUFACTURED BY CLOW VALVE CO. WITH I-HYDRANT REMOTE SENSING ASSEMBLY
2. PROVIDE JOINT RESTRAINT AS REQUIRED.
3. 6-10 MIL. PLASTIC TO BE PLACED ON PIPE PRIOR TO INSTALLATION OF THRUST BLOCK & TO BE INSPECTED BY ENGINEER.
4. BREAKAWAY FLANGE MUST BE SET AT GRADE LEVEL IN ALL AREAS, UTILIZE 6 FT BURY HYDRANT ASSEMBLY.



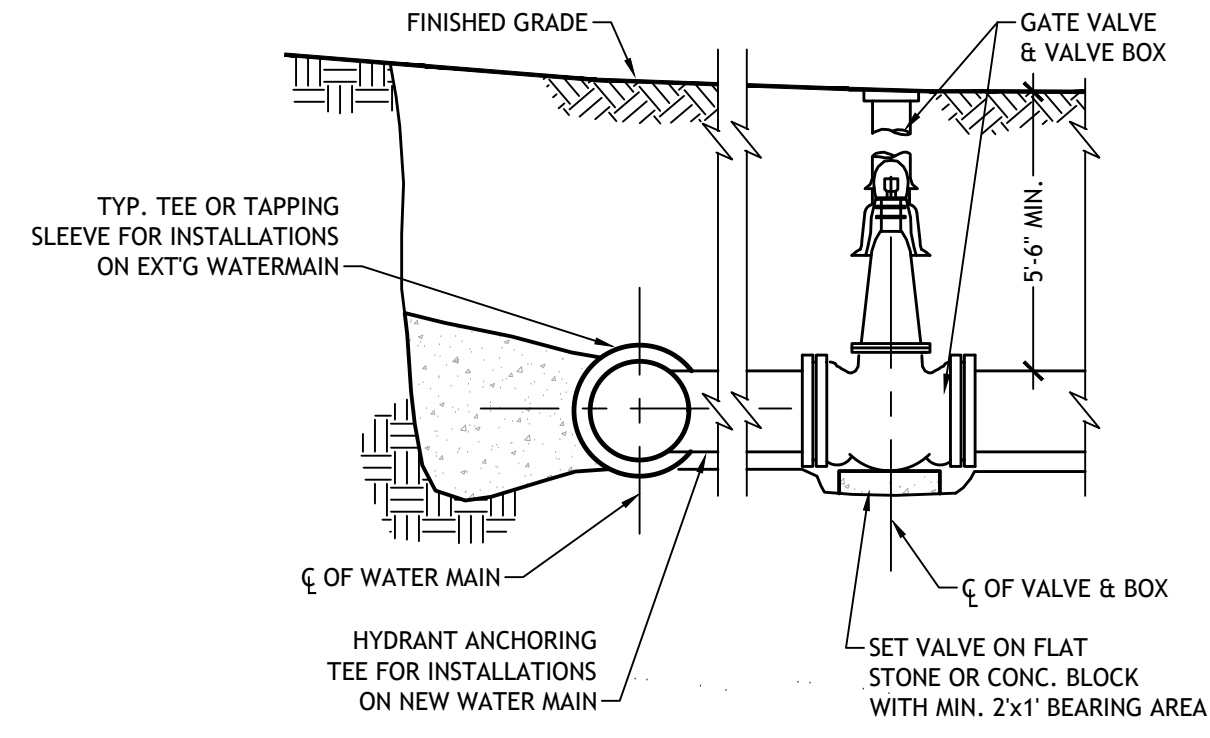
HDPE TO DUCTILE IRON TRANSITION ASSEMBLY



HDPE TO PVC OR DI TRANSITION ASSEMBLY



HDPE TO ASBESTOS CEMENT PIPE TRANSITION ASSEMBLY



TYP. GATE VALVE DETAIL

- N.T.S.
- NOTES:
1. PROVIDE JOINT RESTRAINT IN ACCORDANCE WITH DUCTILE IRON PIPE FITTINGS NOTES.
2. RESILIENT WEDGE GATE VALVES SHALL BE 2361 SERIES AS MANUFACTURED BY MUELLER COMPANY WITH OPEN LEFT (COUNTER-CLOCKWISE).
3. RESILIENT WEDGE GATE VALVES SHALL MEET AWWA C500 & C509 STANDARDS WITH IRON OR DUCTILE IRON BODY, RESILIENT SEATS, NON-RISING BRONZE STEM, SQUARE OPERATING NUT W/ COUNTER-CLOCKWISE OPEN, AND MECHANICAL JOINT OR BELL END CONNECTIONS WITH CORROSION RESISTANT BOLTS.
4. COATINGS SHALL BE IN CONFORMANCE WITH AWWA C550 FOR INTERIOR AND EXTERIOR OF GATE VALVES.
5. VALVE SIZES 12" DIA. AND UNDER SHALL HAVE A WORKING PRESSURE RATING OF 200 PSI.
6. VALVE BOXES SHALL BE AS MANUFACTURED BY SIGMA, TYLER/UNION, OR STAR PIPE PRODUCTS.
7. VALVE SIZES 12" DIA. AND UNDER SHALL HAVE CAST IRON SLIDING TYPE TWO PIECE VALVE BOXES WITH LIDS MARKED "WATER".

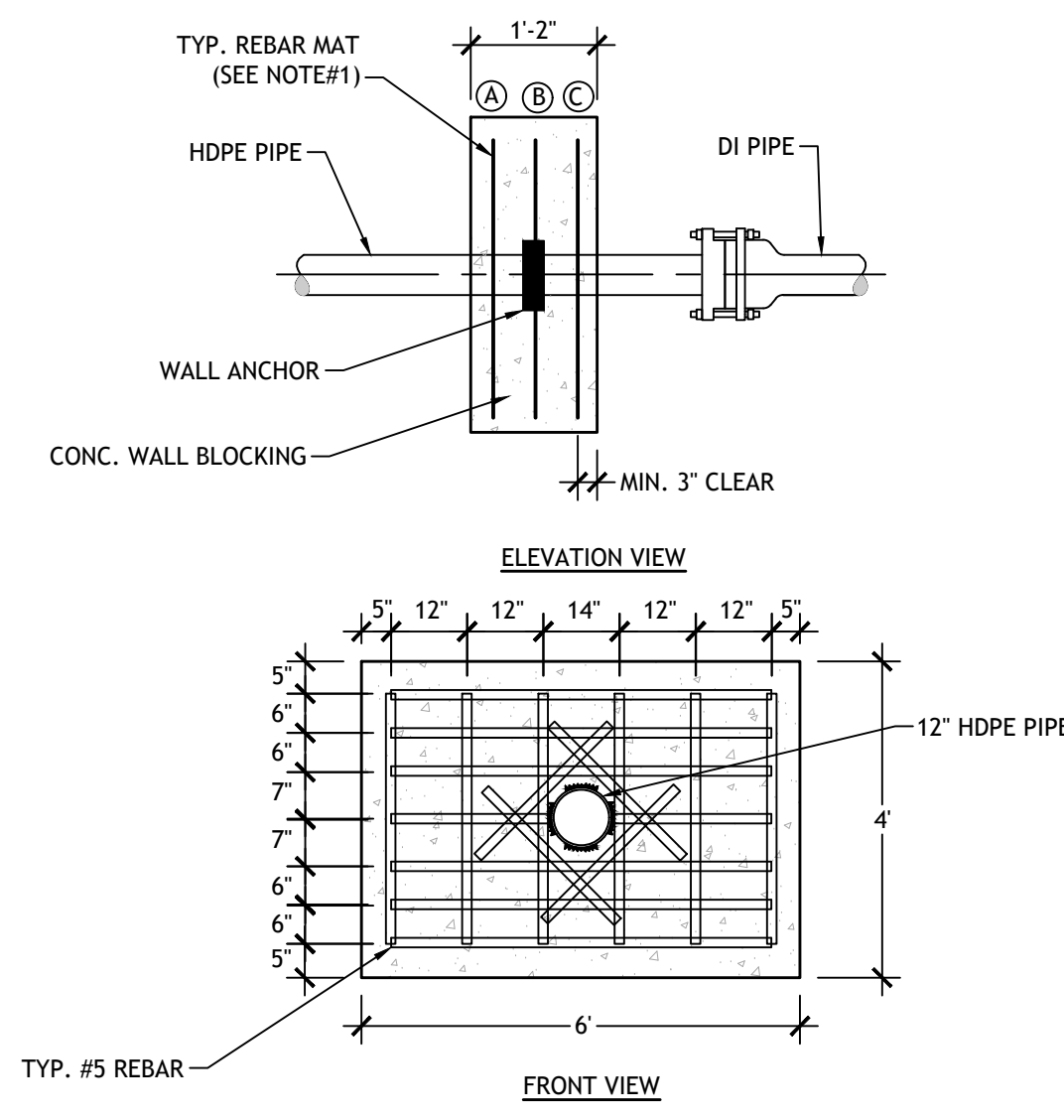
- EROSION CONTROL NOTES:**
- ALL EROSION CONTROL PROCEDURES SHALL CONFORM TO "NEW YORK GUIDELINES FOR URBAN EROSION AND SEDIMENT CONTROL" PREPARED BY THE EMPIRE STATE CHAPTER OF SOIL AND WATER CONSERVATION SOCIETY.
 - THE SMALLEST PRACTICAL AREA OF LAND SHOULD BE EXPOSED AT ANY ONE TIME DURING ALL PHASES OF CONSTRUCTION. THE EXPOSURE SHOULD BE KEPT TO THE SHORTEST PRACTICAL PERIOD OF TIME AND SHALL BE PERMANENTLY STABILIZED IMMEDIATELY FOLLOWING FINISHED GRADING.
 - AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURRED: (A) BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED, (B) A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED, (C) A MINIMUM OF 3" OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIP RAP HAS BEEN INSTALLED, OR (D) EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.
 - PROTECT ALL CATCH BASIN INLETS PRIOR TO DISTURBANCE WHICH COULD RESULT IN SEDIMENT DISCHARGE INTO THE CLOSED DRAINAGE SYSTEM. SAND BAGS, STONE CHECK DAMS, SILT FENCE AND ANY OTHER NECESSARY BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED TO CONTROL SEDIMENT MIGRATION FROM THE EXCAVATION AREAS.
 - EXCAVATIONS OUTSIDE OF PAVEMENT AREAS SHALL BE BACKFILLED IMMEDIATELY AFTER COMPLETION OF WORK AND AREA RESTORED WITH TOPSOIL, SEED & MULCH WITHIN 48 HOURS.
 - GROUNDWATER PUMPED FROM EXCAVATIONS AS PART OF DEWATERING SHALL BE DISCHARGED OVER A STABILIZED AREA WITH CONTAINMENT MEASURES IMPLEMENTED TO AVOID SEDIMENT MIGRATION.
 - MULCH SHALL BE MOWINGS OF ACCEPTABLE HERBACEOUS GROWTH FREE FROM NOXIOUS WEEDS OR WOODY STEMS, AND SHALL BE DRY, NO SALT HAY SHALL BE USED.
 - SEDIMENT ACCUMULATED ON SURROUNDING PAVEMENT SHOULD BE REGULARLY SWEEPED AND STREET SURFACE CLEANED AT END OF WORK DAY.

- PIPE NOTES:**
- HDPE PIPE SHALL BE AWWA C906 DR11 HDPE WITH A MINIMUM PRESSURE RATING OF 200 PSI.
 - DUCTILE IRON PIPE SHALL HAVE A MINIMUM RATED PRESSURE OF 200 PSI AND SHALL BE A MINIMUM OF CLASS 52. DUCTILE IRON PIPE SHALL CONFORM TO AWWA C151 / ANSI A21.51 STANDARDS.
 - DUCTILE IRON PIPE FOR SERVICE IN WATER SHALL BE DOUBLE CEMENT LINED AND SEAL COATED INSIDE AND OUT IN ACCORDANCE WITH ANSI 21.4 / AWWA C104.
- PIPE FITTING NOTES:**
- ALL HDPE BUTT FUSION FITTINGS SHALL BE DIPS SDR11 MOLDED FITTINGS MEETING AWWA C901/C906.
 - ALL DUCTILE IRON FITTINGS SHALL BE STANDARD THICKNESS WITH A MINIMUM PRESSURE RATING OF 200 PSI. DUCTILE IRON FITTINGS SHALL CONFORM TO AWWA C110, C153 & C105 / ANSI A21.10 STANDARDS.
 - ANY NON-FUSION JOINTS SHALL BE MECHANICAL JOINT TYPE AND SHALL MEET AWWA C111 & C115 STANDARDS WITH GASKETS IN ACCORDANCE WITH ANSI A21.11 STANDARDS.
 - MECHANICAL JOINT GLANDS SHALL BE MEGA-LOK RESTRAINT GLANDS WITH BOLTS AND NUTS IN ACCORDANCE WITH ANSI A21.11 STANDARDS.
 - DUCTILE IRON FITTINGS SHALL HAVE INTERIOR CEMENT LINING WITH DOUBLE BITUMINOUS SEAL IN ACCORDANCE WITH AWWA C104 AND EXTERIOR BITUMINOUS COATING OF 2 MILS APPROX. THICKNESS PER ANSI A21.51, A21.15 & A21.10 STANDARDS.

- PIPE TRENCH NOTES:**
- ALL LINING MATERIAL SHALL BE SAND GRADED PER NYSDOT TABLE 733-15A.
 - GENERAL BACKFILL SHALL BE NATIVE SOIL EXCAVATED FROM THE TRENCH, FREE OF ANY ROCKS WITH A DIMENSION OF 8 INCHES OR LARGER, WITH NO FOREIGN MATERIAL OR FROZEN EARTH.
 - SELECT GRANULAR FILL SHALL BE GRADED PER NYSDOT TABLE 733-11A AND SHALL BE USED IF EXISTING MATERIAL IS UNSUITABLE FOR REUSE AS GENERAL FILL.
 - WATER PIPING SHALL BE INSULATED WHEN A MINIMUM COVER OF 5'-6" IS NOT ACHIEVED DUE TO SITE CONSTRAINTS. PRIOR APPROVAL BY ENGINEER IS REQUIRED.
 - BACKFILL MATERIAL SHALL BE COMPACTED IN MAXIMUM 8 INCH LIFTS TO 95 PERCENT OF MAXIMUM DRY DENSITY.

- ### TRANSITION FITTINGS AND ANCHORAGE
- N.T.S.
- NOTES:
1. HIGH DENSITY POLYETHYLENE (HDPE) FITTINGS SHALL MEET THE REQUIREMENTS OF AWWA C906.
2. AN INTERNAL STIFFENER MUST BE INSTALLED IN THE END OF THE HDPE PIPE WHEN PLAIN END HDPE IS INSERTED INTO THE BELL OF A NON-HDPE PIPE, VALVE, FITTING, OR INTO A HUB OF A BOLTED COUPLING.
3. EXTERNAL MECHANICAL THRUST RESTRAINT GLANDS FOR DIP SHALL BE STARGRIP SERIES 3000, AS MANUFACTURED BY STAR PIPE PRODUCTS OR EQUAL. RESTRAINT FOR PVC PIPE/PLAIN END HDPE PIPE SHALL BE HYMAX W/ HIGH PRESSURE GRIP, AS MANUFACTURED BY MUELLER OR EQUAL.
4. FIGURE SHOWS TRANSITION TO BELL END OF DIP. FOR TRANSITION TO PLAIN END OF DIP, SEE PVC FIGURE.
5. BEDDING AND BACKFIELD IN ACCORDANCE WITH REQ.'S OF TYP. TRENCH.
6. THE CONCRETE ANCHOR SHALL BE CONSTRUCTED W/ MIN. 3,600 PSI CONCRETE.
7. POTABLE WATER PIPE SHALL BE BLUE STRIP HDPE DR 11.

- ASBESTOS NOTES:**
- ASBESTOS CEMENT (AC) PIPE, ALSO KNOWN AS TRANSITE PIPE, IS KNOWN TO CONTAIN ASBESTOS CONTAINING MATERIAL (ACM). SPECIAL WASTE MANAGEMENT PROCEDURES AND HEALTH AND SAFETY REQUIREMENTS WILL BE APPLICABLE WHEN REMOVAL AND/OR DISTURBANCE OF THIS PIPE OCCURS.
 - AT EACH LOCATION SHOWN IN THE PLANS AND/OR IDENTIFIED BY THE CONTRACTOR TO INVOLVE AC PIPE, THE CONTRACTOR WILL BE REQUIRED TO REMOVE THE NECESSARY AMOUNT OF AC PIPE TO MAKE THE CONNECTION WITHOUT CREATING ANY FRAGILE MATERIAL. THE CONTRACTOR SHALL REMOVE WHOLE SECTIONS OF AC PIPE AND MAKE THE TIE-IN AT THE NEAREST JOINT. CONTRACTOR WILL UNCOVER NO MORE THAN 20 FEET OF AC PIPE AT ANY TIME. CUTTING OF AC PIPE SHALL BE MINIMIZED. THE CONTRACTOR SHALL REMOVE ANY CUT AC PIPE AND STORE IT IN A SECURE, ENGINEER APPROVED LOCATION FOR EVENTUAL DISPOSAL BY CONTRACTOR. PRIOR TO PERFORMING THIS WORK, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND THE OWNER OF THE UTILITY OF THE WORK SCHEDULE 72 HOURS IN ADVANCE OF BEGINNING THE WORK.
 - WHEN WORKING WITH AC PIPES, CONTRACTOR WILL COMPLY WITH OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) AND NATIONAL EMISSIONS STANDARDS FOR HAZARDOUS AIR POLLUTANTS (NESHAP) REGULATIONS, INCLUDING BUT NOT LIMITED TO USE OF PERSONAL PROTECTIVE EQUIPMENT, SPECIALIZED TRAINING, ACCREDITATION, USE OF WET WORK PROCEDURES TO CUT AND REMOVE AC PIPE, AND HANDLING AND DISPOSAL OF AC PIPE AND MATERIAL INCLUDING CONTAMINATED SOIL.
 - AC PIPE WILL BE TAKEN OUT OF SERVICE BY REMOVAL OR BY GROUTING. ALL AC PIPE AND MATERIALS REMOVED WILL BECOME THE PROPERTY OF THE CONTRACTOR. THE CONTRACTOR WILL PROVIDE THE OWNER WITH DISPOSAL RECEIPTS SHOWING PROPER DISPOSAL AT AN AUTHORIZED FACILITY.



WALL ANCHORING DETAIL

- N.T.S.
- NOTES:
1. FOR 4 TO 10-INCH PIPE, PLACE ONE REBAR MAT AT LOCATION B. FOR 12-INCH PIPE, PLACE TWO REBAR MATS - ONE AT LOCATION A AND ONE AT LOCATION C.

ARCHITECTURAL & ENGINEERING DESIGN ASSOCIATES, P.C.
1246 RT. 3 - P.O. BOX 762
PLATTSBURGH, NEW YORK, 12061
T: 516.562.1800
F: 516.562.1702
E: JAH@AEDAPC.COM

COPYRIGHT © ARCHITECTURAL & ENGINEERING DESIGN ASSOCIATES, P.C. HAS THE EXCLUSIVE RIGHT TO REPRODUCE THE WORK, TO MAKE DERIVATIVE USE OF IT, TO GRANT LICENSES TO USE THE WORK, TO SELL THE WORK AND TO OTHERWISE DEAL WITH THE COPYRIGHT THROUGH THE LIFE OF THE COPYRIGHT OWNER AND FOR 50 YEARS THEREAFTER. UNLESS NOTED OTHERWISE - UNAUTHORIZED ALTERATIONS AND/OR ADDITIONS TO THIS DRAWING BEARING A LICENSED ARCHITECT'S OR ENGINEER'S SEAL IS A VIOLATION OF SECTION 2209, SUBDIVISION 2, OF THE NEW YORK STATE EDUCATION LAW, ONLY COPIES FROM THE ORIGINAL OF THIS DRAWING BEARING THE ORIGINAL ARCHITECT'S OR ENGINEER'S SEAL AND SIGNATURE SHALL BE CONSIDERED VALID TRUE COPIES.

CITY OF PLATTSBURGH DPW
NEW YORK ROAD
WATER MAIN REPLACEMENT PROJECT
NEW YORK ROAD, CITY OF PLATTSBURGH, CLINTON COUNTY, NY

CONSTRUCTION DOCUMENT
PHASE SERVICES 100%



REVISIONS		
#	BY	DATE
1	DLL	03-29-22

DETAILS

PROJECT NO. 21119
DATE 02-17-22
DRAWN BY DLL
CHECKED BY MSC

C501



ARCHITECTURAL & ENGINEERING DESIGN ASSOCIATES, P.C.
1246 RT. 3 - P.O. BOX 762
PLATTSBURGH, NEW YORK, 12061
T: 516.562.1800
F: 516.562.1702
E: JAH@AEDAPC.COM

COPYRIGHT © ARCHITECTURAL & ENGINEERING DESIGN ASSOCIATES, P.C. HAS THE EXCLUSIVE RIGHT TO REPRODUCE THE WORK, TO MAKE DERIVATIVE USE OF IT, TO GRANT LICENSES TO USE THE WORK, TO SELL THE WORK AND TO OTHERWISE DEAL WITH THE COPYRIGHT THROUGHOUT THE LIFE OF THE COPYRIGHT OWNER AND FOR 50 YEARS THEREOF. UNLESS NOTED OTHERWISE - UNAUTHORIZED ALTERATIONS AND/OR ADDITIONS TO THIS DRAWING BEARING A LICENSED ARCHITECT'S OR ENGINEER'S SEAL IS A VIOLATION OF SECTION 2209, SUBDIVISION 2, OF THE NEW YORK STATE EDUCATION LAW. ONLY COPIES FROM THE ORIGINAL OF THIS DRAWING BEARING THE ORIGINAL ARCHITECT'S OR ENGINEER'S SEAL AND SIGNATURE SHALL BE CONSIDERED VALID TRUE COPIES.

CITY OF PLATTSBURGH DPW
NEW YORK ROAD
WATER MAIN REPLACEMENT PROJECT
NEW YORK ROAD, CITY OF PLATTSBURGH, CLINTON COUNTY, NY

CONSTRUCTION DOCUMENT
PHASE
SERVICES 100%

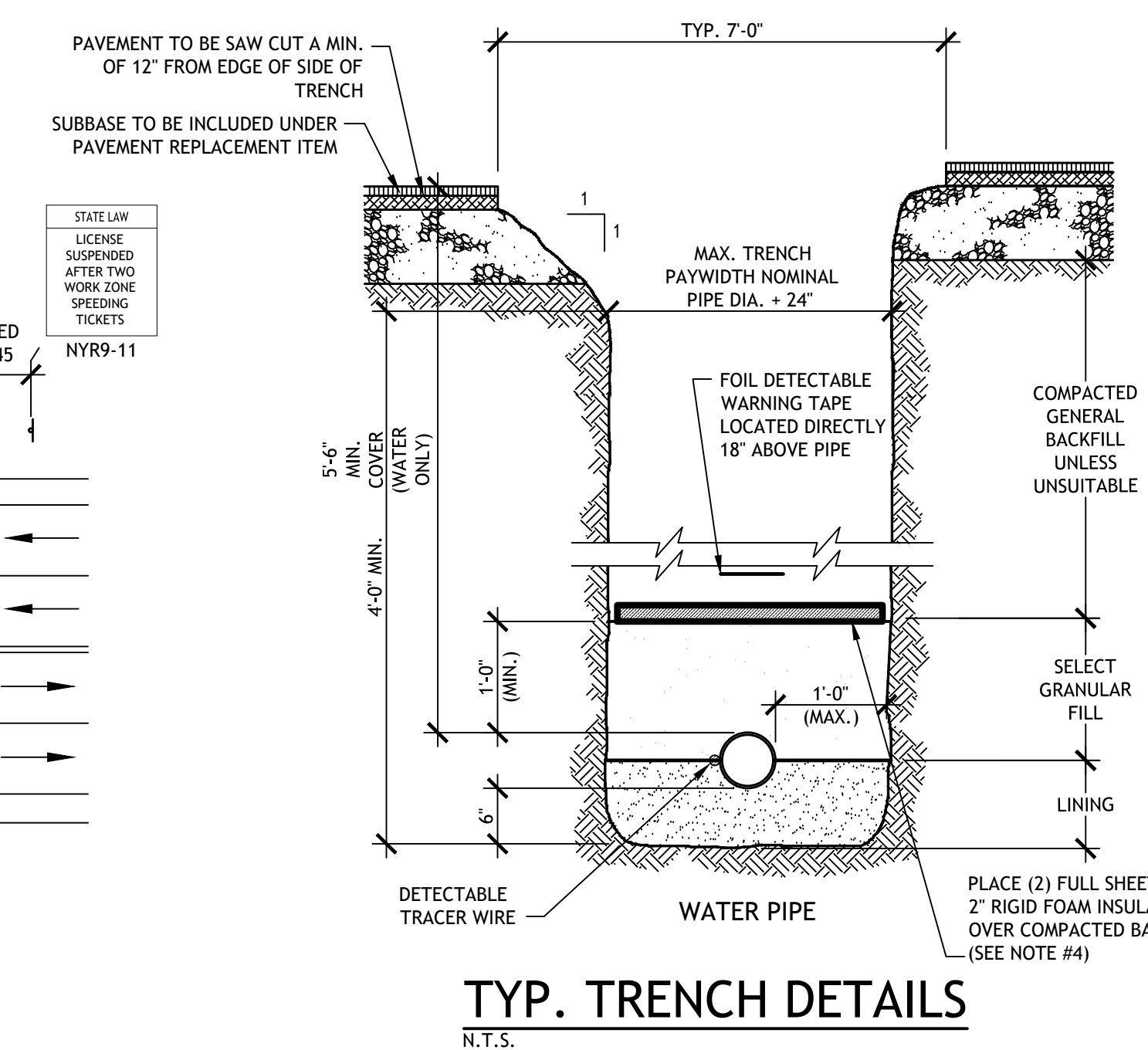


REVISIONS		
#	BY	DATE
1	DLL	03-29-22

DETAILS

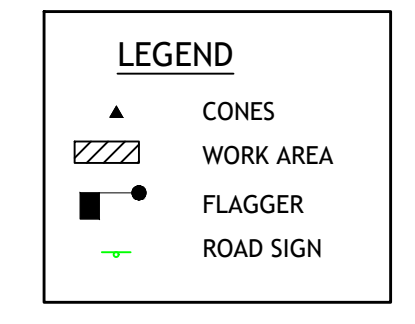
PROJECT NO. 21119
DATE 02-07-22
DRAWN BY DLL
CHECKED BY MSC

C502



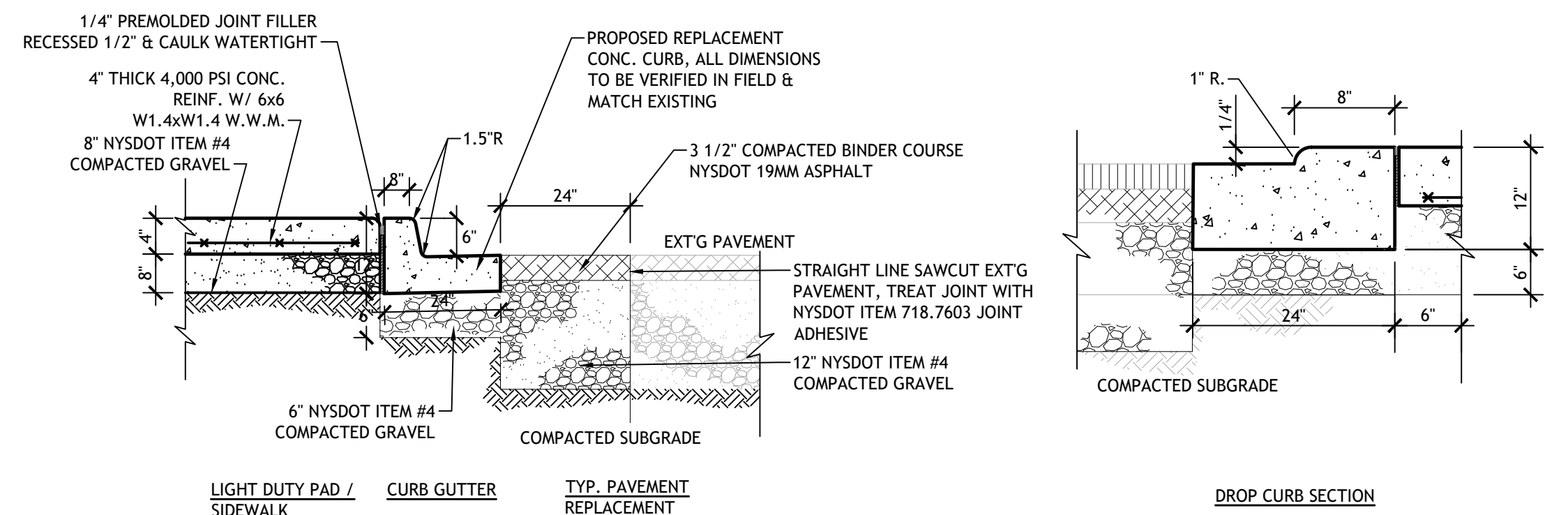
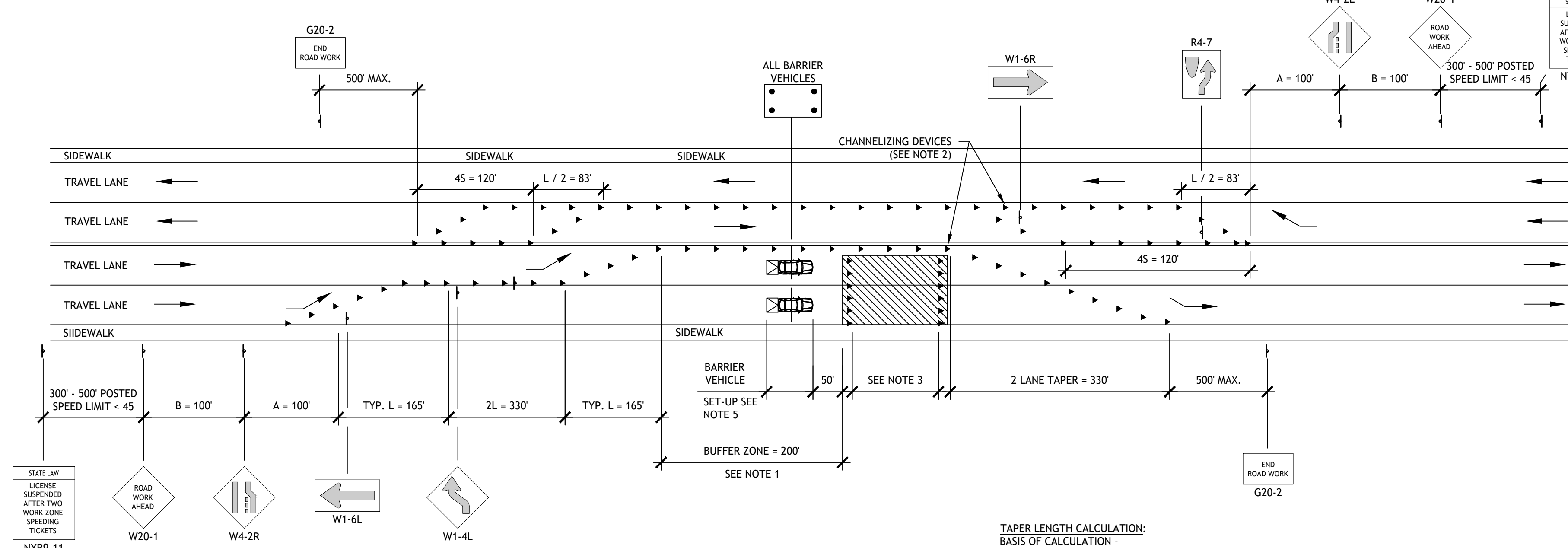
- PIPE TRENCH NOTES:
1. ALL LINING MATERIAL SHALL BE SAND GRADED PER NYSOT TABLE 733-15A.
 2. GENERAL BACKFILL SHALL BE NATIVE SOIL EXCAVATED FROM THE TRENCH, FREE OF ANY ROCKS WITH A DIMENSION OF 8 INCHES OR LARGER, WITH NO FOREIGN MATERIAL OR FROZEN EARTH.
 3. SELECT GRANULAR FILL SHALL BE GRADED PER NYSOT TABLE 733-11A AND SHALL BE USED IF EXISTING MATERIAL IS UNSUITABLE FOR REUSE AS GENERAL FILL.
 4. WATER AND SANITARY FORCE MAIN PIPING (WHERE APPLICABLE) SHALL BE INSULATED WHEN A MINIMUM COVER OF 5'-6" IS NOT ACHIEVED DUE TO SITE CONSTRAINTS. PRIOR APPROVAL BY ENGINEER IS REQUIRED.
 5. MAGNETIC 10GA SOLID COPPER DETECTABLE TRACE WIRE TO HAVE BRIGHT PLASTIC COVERING. EXTEND TO ABOVE GRADE FOR CONNECTION POINT AS FIELD COORDINATED WITH DEPARTMENT OF PUBLIC WORKS.
 6. REFER TO SPECIFICATION SECTION 312316.13 OR 312323 FOR COMPACTION REQUIREMENTS.

TAPER LENGTH CALCULATION:
BASIS OF CALCULATION -
- SPEED LIMIT (S) OF 30 MPH
- LATERAL SHIFT ±11 FT LANE WIDTH
TABLE 6H-4 FROM STANDARD 619-11
- RESULTING TAPER (L) = 165 FT



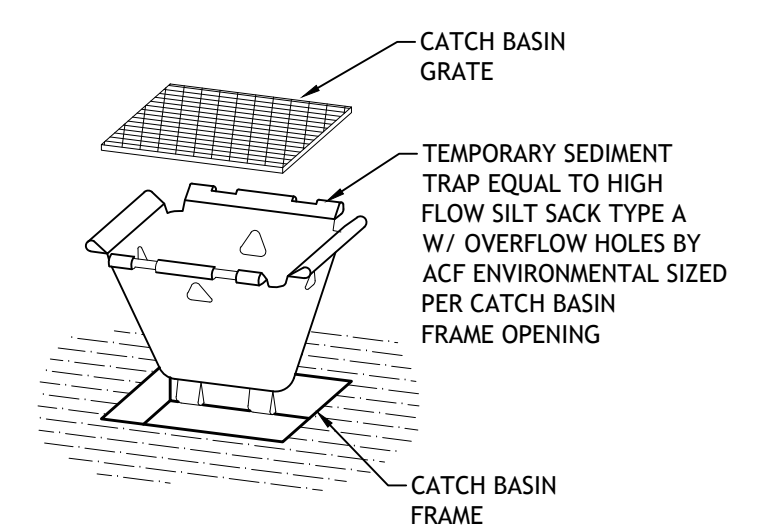
DOUBLE LANE CLOSURE WORK TRAFFIC CONTROL DETAIL
N.T.S.

- NOTES:
1. NO WORK ACTIVITY, EQUIPMENT, OR STORAGE OF VEHICLES, OR MATERIAL SHALL OCCUR WITHIN THE BUFFER SPACE AT ANY TIME.
 2. CHANNELIZING DEVICE SPACING (CENTER TO CENTER) SHALL NOT EXCEED 40' IN THE ACTIVE WORK SPACE.
 3. TRANSVERSE DEVICES SHALL BE REQUIRED (AS PER 619 STANDARD SPECIFICATIONS) WHEN A PAVED SHOULDER HAVING A WIDTH OF 8' OR GREATER IS CLOSED FOR A DISTANCE GREATER THAN 1500'.
 4. FOR LONG DURATION LANE CLOSURES, TEMPORARY PAVEMENT MARKINGS SHALL BE USED IN ACCORDANCE TO THE CONTRACT DOCUMENTS. ANY EXISTING PAVEMENT MARKINGS THAT ARE CONFLICTING OR MISLEADING SHALL BE REMOVED OR COVERED.
 5. FOR BARRIER VEHICLE USE REQUIREMENTS SEE TABLES NY1-A AND NY2-A ON THE STANDARD SHEET TITLED "WORK ZONE TRAFFIC CONTROL LEGENDS AND NOTES".



TYP. CONC. SIDEWALK / PAVEMENT REPLACEMENT DETAIL
N.T.S.

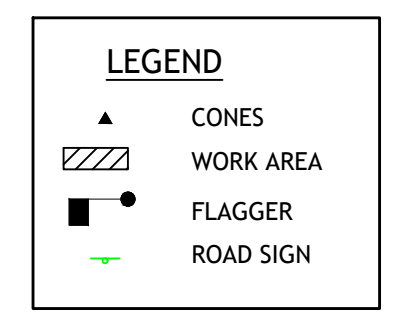
- NOTES:
1. COORD. & VERIFY ALL CURB HGTS. ABOVE FINISH GRADES W/ ENGINEER PRIOR TO INSTALLATION.
 2. PROVIDE TYP. TOOLED/TROWELED CONTROL JOINT AT 5'-0" SPACING.
 3. SAWCUT EXT'G ROADWAY PAVEMENT, CONCRETE CURB & CONCRETE GUTTER CLEAN & SQUARE PRIOR TO TRENCHING.
 4. PROVIDE #4 REBAR DOWELS (3 PER CURB JOINT) DRILLED & SET INTO EXT'G CURB WITH EPOXY.
 5. PROVIDE TYP. TOOLED FINISH AT WALK EDGES & LIGHT BROOM FINISH.
 6. PROVIDE BREAK IN POUR WITH EXPANSION JOINT 1/4" MIN. THICKNESS USING PREMOLDED FILLER LEFT 1/2" BELOW SURFACE AT TRANSITION TO ADJACENT ASPHALT OR CONCRETE SURFACES.
 7. SEAL ALL EXPANSION JOINTS W/ FLEXIBLE SEALANT EQUAL TO SIKAFLEX-1C SL.
 8. SEAL CONC. SURFACE W/ PENETRATING SILANE SEALER EQUAL TO SILENCURE BY CHEMMASTERS.
 9. WHERE SIDEWALK TRANSITIONS TO A DROP CURB SECTION (TOP OF CURB 1/4" ABOVE PAVEMENT GRADE) MAKE TRANSITION AT 12:1 MAX. SLOPE PER THE TYP. CONCRETE CURB RAMP DETAIL. WHERE A CURB WITHOUT A SIDEWALK TERMINATES, TRANSITION TO FLUSH TO PAVEMENT OVER A 2 FT LENGTH.



TYP. CATCH BASIN INLET
BMP DETAIL (PAVED AREAS)
N.T.S.

- NOTES:
1. ENSURE SILT SACK IS REMOVED PRIOR TO WINTER FREEZING, RE-INSTALL IN SPRING PRIOR TO THREAT OF SEDIMENT MIGRATION FROM UNSTABILIZED AREAS.

TAPER LENGTH CALCULATION:
BASIS OF CALCULATION -
- SPEED LIMIT (S) OF 30 MPH
- LATERAL SHIFT ±11 FT LANE WIDTH
TABLE 6H-4 FROM STANDARD 619-11
- RESULTING TAPER (L) = 165 FT



SINGLE LANE CLOSURE WORK TRAFFIC CONTROL DETAIL
N.T.S.

- NOTES:
1. NO WORK ACTIVITY, EQUIPMENT, OR STORAGE OF VEHICLES, OR MATERIAL SHALL OCCUR WITHIN THE BUFFER SPACE AT ANY TIME.
 2. CHANNELIZING DEVICE SPACING (CENTER TO CENTER) SHALL NOT EXCEED 40' IN THE ACTIVE WORK SPACE.
 3. TRANSVERSE DEVICES SHALL BE REQUIRED (AS PER 619 STANDARD SPECIFICATIONS) WHEN A PAVED SHOULDER HAVING A WIDTH OF 8' OR GREATER IS CLOSED FOR A DISTANCE GREATER THAN 1500'.
 4. FOR LONG DURATION LANE CLOSURES, TEMPORARY PAVEMENT MARKINGS SHALL BE USED IN ACCORDANCE TO THE CONTRACT DOCUMENTS. ANY EXISTING PAVEMENT MARKINGS THAT ARE CONFLICTING OR MISLEADING SHALL BE REMOVED OR COVERED.
 5. FOR BARRIER VEHICLE USE REQUIREMENTS SEE TABLES NY1-A AND NY2-A ON THE STANDARD SHEET TITLED "WORK ZONE TRAFFIC CONTROL LEGENDS AND NOTES".

