

MOBILE GAS STATION

NEW CONVENIENCE STORE

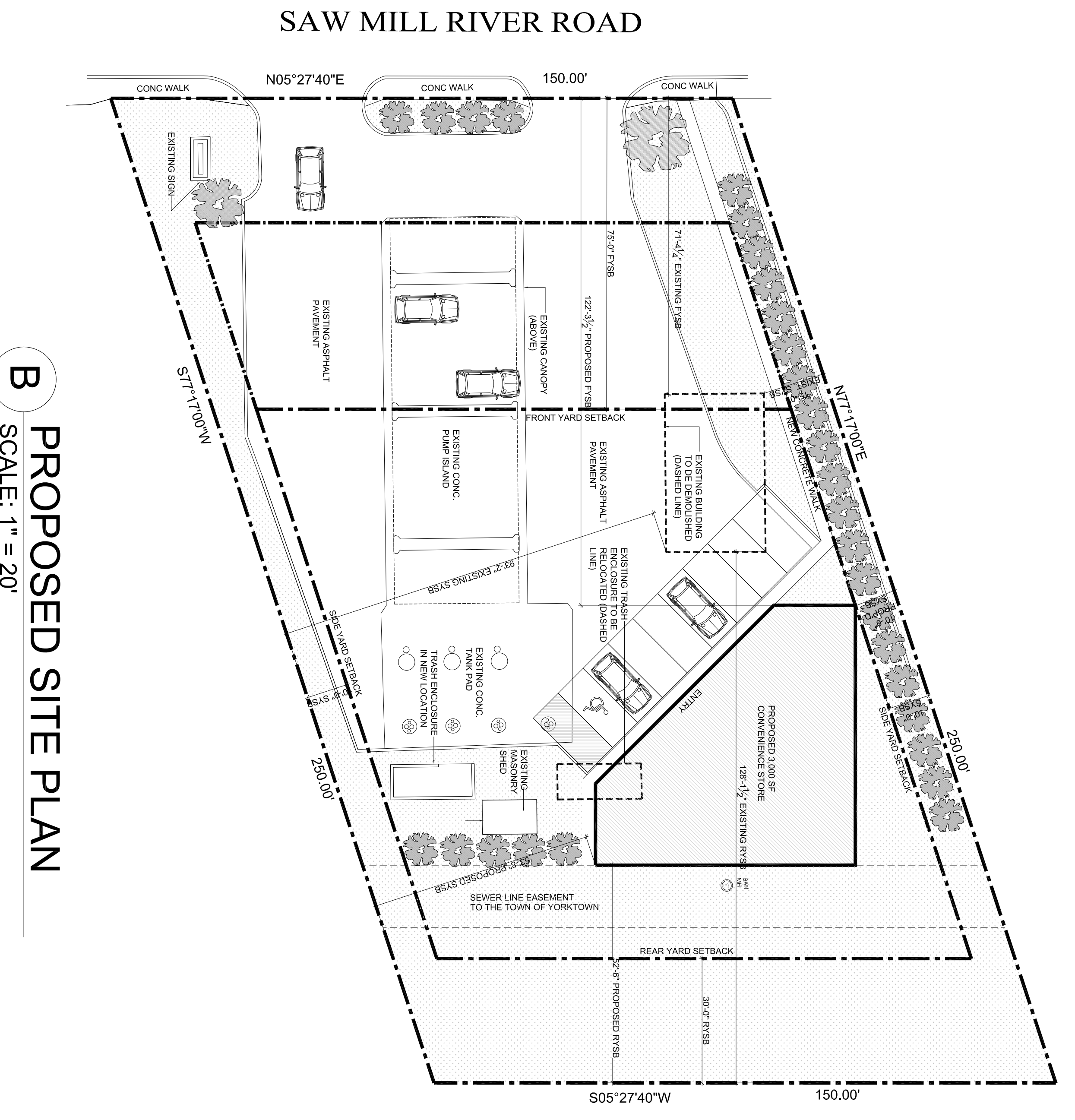
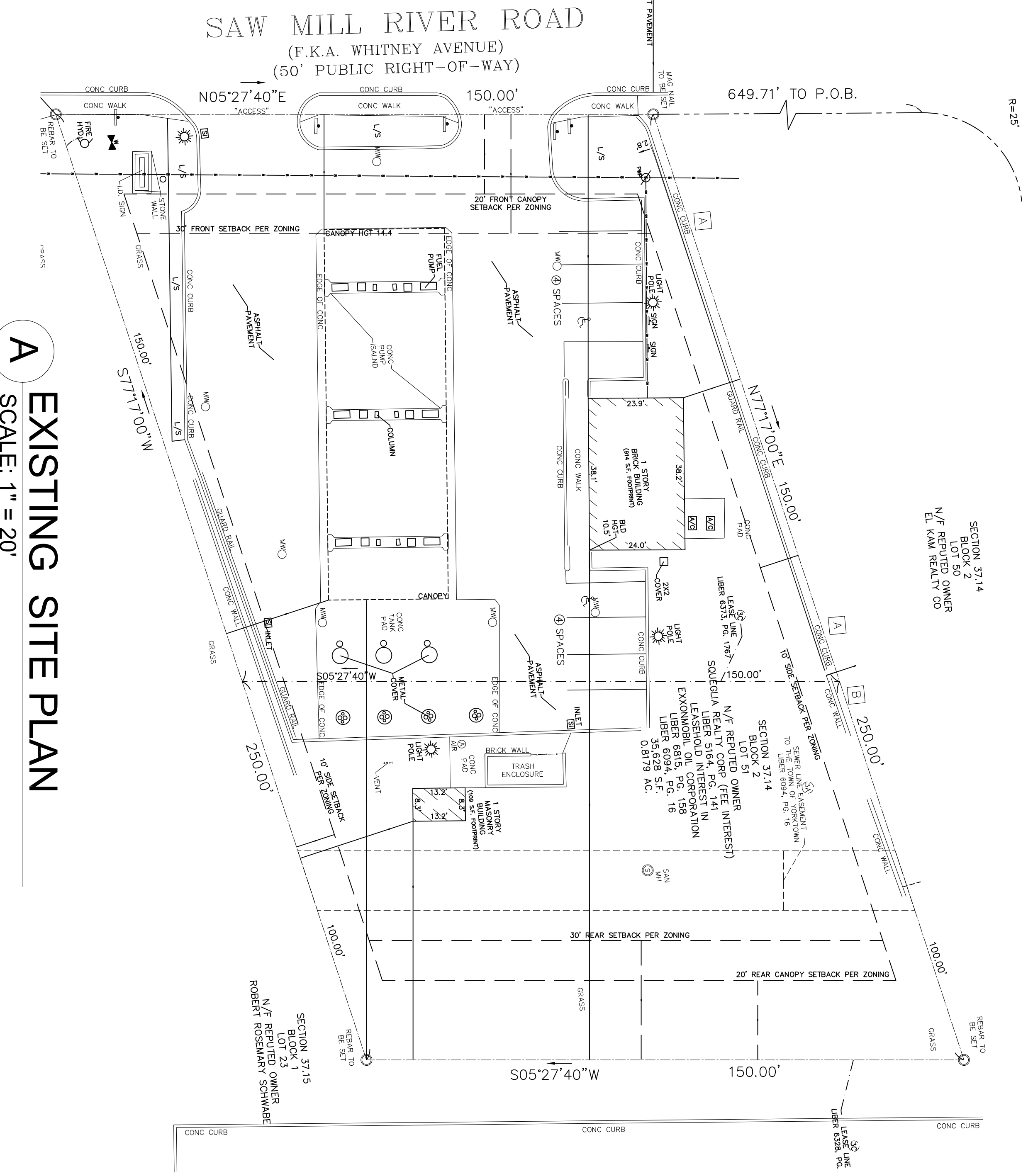
2035 SAW MILL RIVER ROAD

YORKTOWN HEIGHTS, NY 10598

ZONING DATA: YORKTOWN

TAX MAP #: 37.14-2-51
ZONE: C-3

TABLE BUILDING REQUIREMENTS	REQUIRED	EXISTING	PROPOSED
MINIMUM LOT AREA	10,000 SF	35,628.5 SF	NO CHANGE
LOT WIDTH	100 FT.	150 FT	NO CHANGE
LOT DEPTH	NONE		
COVERAGE	30% (10,688)	10.7% (3,826)	17.8% (6,346)
BUILDING HEIGHT	35 FT	10'-6"	22'-0"
SETBACK REQUIREMENTS			
MIN. FRONT (WEST)	75 FT	71'-4 1/4"	122'-3 1/2"
MIN. REAR (EAST)	30 FT	128'-11 1/2"	52'-6"
MIN. SIDE (SOUTH)	10 FT	93'-2"	53'-6"
MIN. SIDE (NORTH)	10 FT	15'-0"	10'-0"
PARKING SPACES	5/1,000 SF=15	8 SPACES	8 SPACES



MAD
Michael Piccirillo Architecture

NOTE:
DO NOT SCALE DRAWINGS. REFER TO WRITTEN MEASUREMENTS FOR ALL DIMENSIONS AND LOCATIONS. DIMENSIONS AND LOCATIONS SHOWN ON THESE ARE ANY DISCREPANCIES UNAUTHORIZED ALTERATIONS OR ADDITIONS TO THIS DRAWING IS A VIOLATION OF NEW YORK STATE EDUCATION LAW.
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No.	DATE:	ISSUE:
1	11/8/17	REVISED SITE PLAN

PROJECT NAME:
MOBILE GAS STATION
CONVENIENCE STORE
NEW CONSTRUCTION

PROJECT ADDRESS:
2035 SAW MILL RIVER RD.
YORKTOWN HEIGHTS, NEW YORK

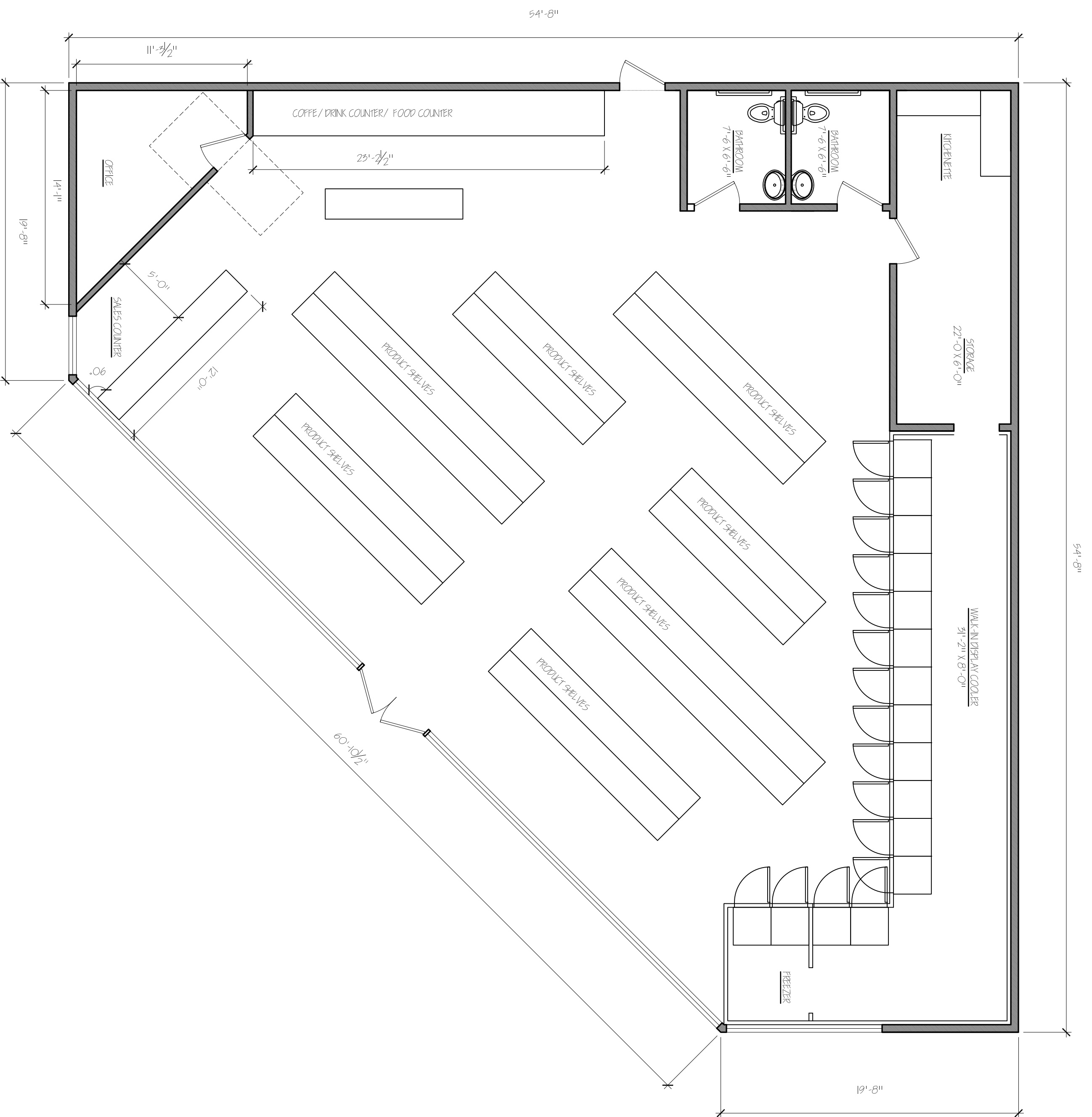
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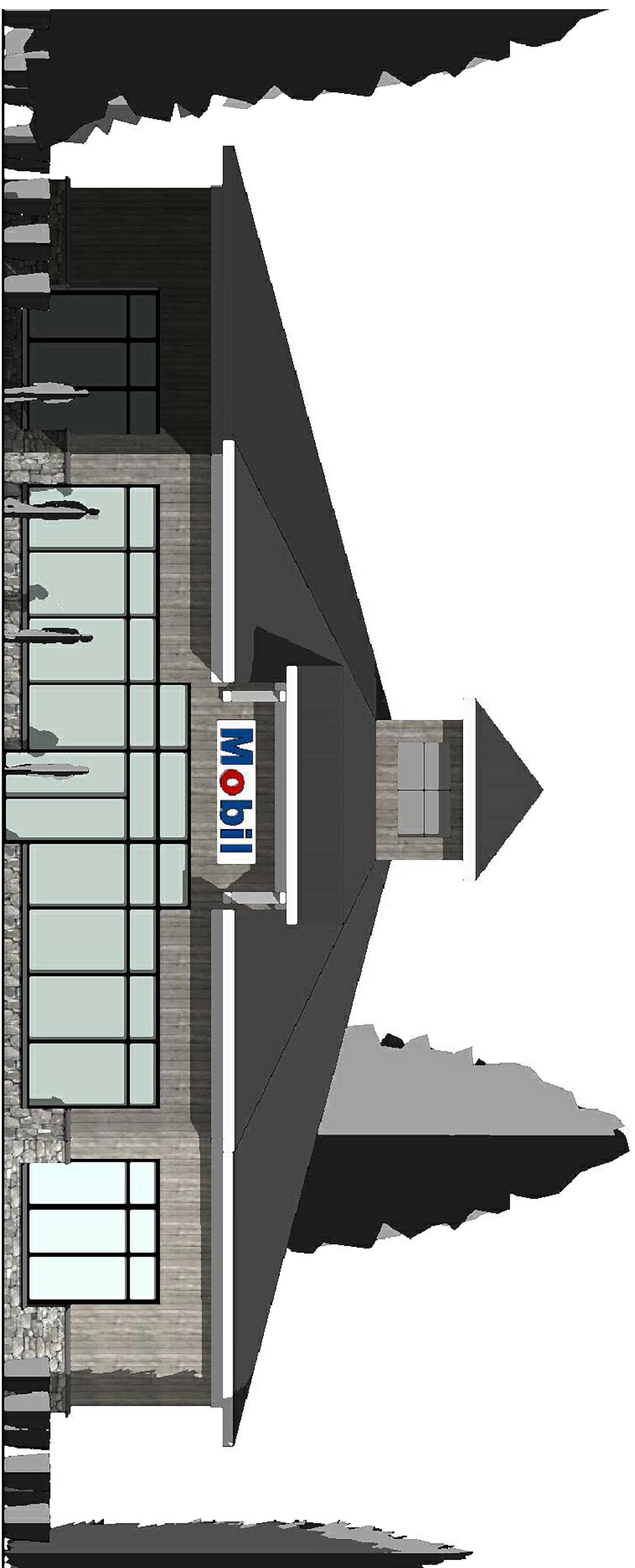
SITE PLAN

SCALE: DATE:
DRAWN BY: VI
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1 OF

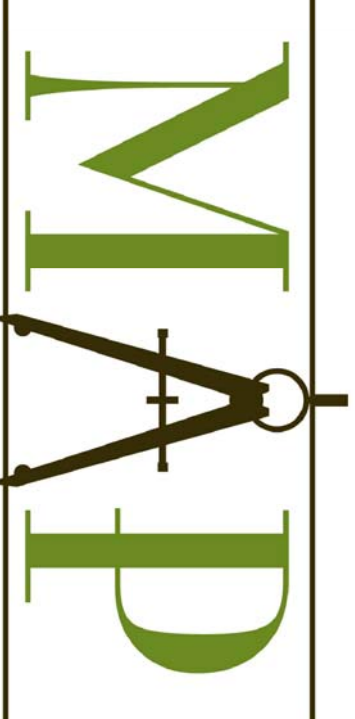
SP100



1 FLOOR PLAN
SCALE: 3/16" = 1'-0"



2 ELEVATION
SCALE: 3/16" = 1'-0"



Michael Piccirillo Architecture

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NO.	DATE	DESCRIPTION
1	11/27/16	ISSUED FOR PERMIT USE PERMIT

PROJECT NAME:
MOBIL GAS STATION STORE
NEW CONSTRUCTION

PROJECT ADDRESS:
2035 SAW MILL RIVER ROAD
YORKTOWN HEIGHTS, NY

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FLOOR PLAN		DATE:
SCALE:	DATE:	
DESIGNED BY: VI		
DRAWN BY: JAK/SPB		
1 OF 1		A-100

SAW MILL RIVER ROAD

SEWER LINE SPECIFICATIONS

PROPOSED SEWER LINE IS SDR-35 PVC AS DEFINED BY ANSI/ASTM D3034. INSIDE NOMINAL # OF 8 INCHES, PUSH ON JOINT WITH INTEGRAL BELL AND SPIGOT WITH GASKETS. PROVIDE MINIMUM 18 INCHES VERTICAL SEPARATION BETWEEN SANITARY SEWER AND WATER LINES AND DRAINAGE LINES.

PRECAST CONCRETE MANHOLES SHALL CONFORM WITH ASTM C478, PRECAST REINFORCED CONCRETE, OF DEPTH INDICATED ON PLANS WITH PROVISIONS FOR RUBBER GASKET JOINTS IN CONFORMANCE WITH ASTM C443. PIPE CONNECTORS SHALL CONFORM WITH ASTM C923.

PIPE SHALL BE INSTALLED AS INDICATED ON PLANS; WITH MAXIMUM VARIATION FROM TRUE SLOPE OF 1/8 INCH IN TEN (10) FEET.

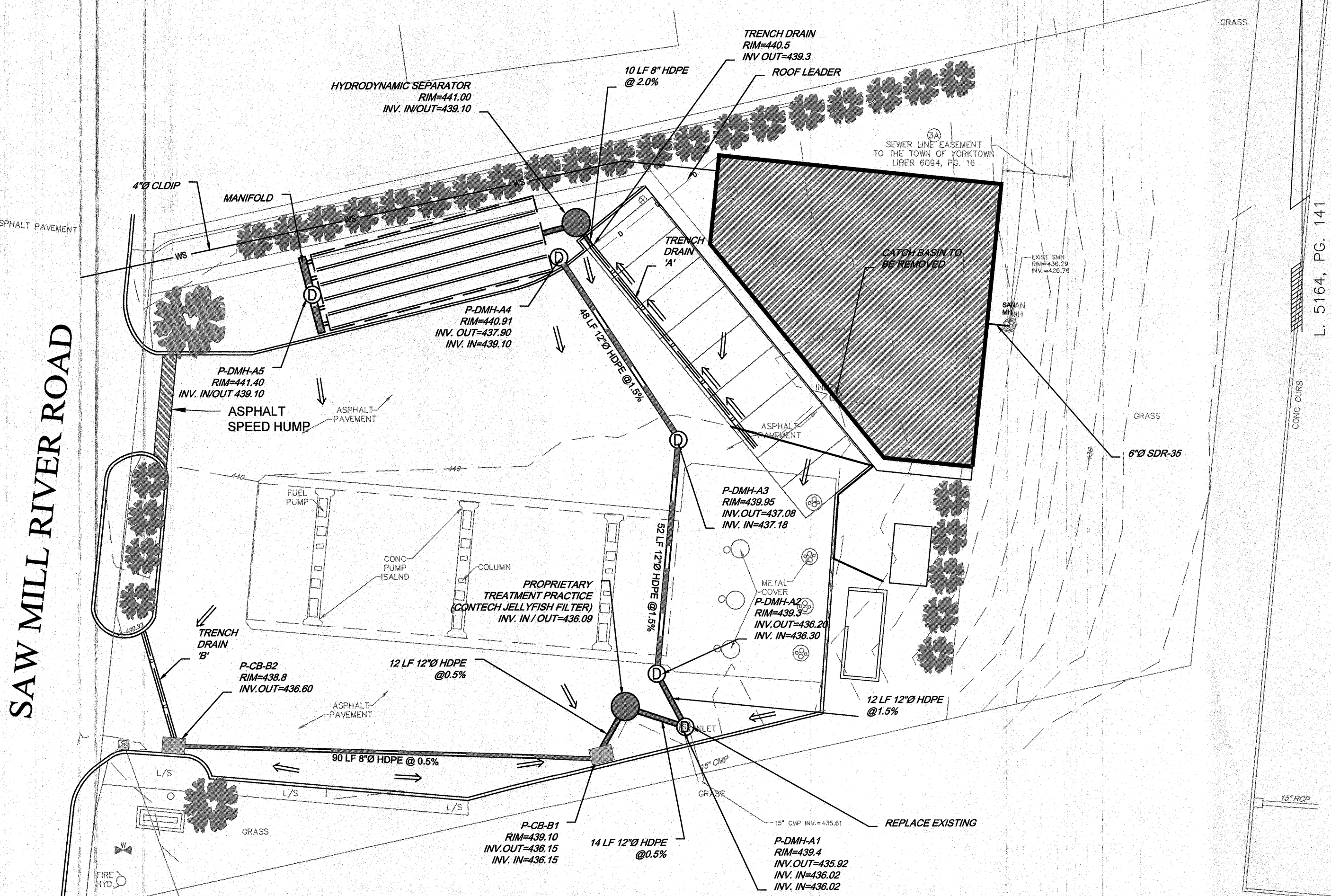
CONTRACTOR SHALL REQUEST THE INSPECTION OF THE SANITARY SEWER BY THE DESIGN ENGINEER PRIOR TO AND IMMEDIATELY AFTER PLACING BEDDING. UPON THE COMPLETION OF THE SEWER SYSTEM, CONTRACTOR SHALL PERFORM A DEFLECTION TEST IN ACCORDANCE WITH ASTM D-2122, STANDARD TEST METHOD OF DETERMINING DIMENSIONS OF THE THERMOPLASTIC PIPE AND FITTINGS AND 10 STATES STANDARDS. IF DEFLECTION EXCEEDS 5%, REPLACEMENT OR CORRECTION SHALL BE ACCOMPLISHED PER THE DISCRETION OF THE DESIGN ENGINEER. CONTRACTOR SHALL PERFORM A LOW PRESSURE AIR TEST AS DESCRIBED IN ASTM C-928-86. CONTRACTOR SHALL PERFORM NEGATIVE AIR PRESSURE TEST IN ACCORDANCE WITH ASTM C-1244-93 ON EACH SANITARY MANHOLE, HOWEVER, THE CONTRACTOR SHALL CONFORM TO THE REQUIREMENTS OF ATTACHMENT B OF NYSDEC TIP NO. 15, ALTERNATIVE METHODS FOR SEWER AND MANHOLE LEAKAGE TESTING, FOR MINIMUM TEST TIMES. THE CONTRACTOR MAY SUBSTITUTE THE NEGATIVE AIR TEST ON EACH MANHOLE WITH A WATER TEST AS DIRECTED BY THE DESIGN ENGINEER. CONTRACTOR SHALL ALSO PERFORM AN INFILTRATION TEST AND DEMONSTRATE THAT THE COLLECTION SYSTEM INSTALLED DOES NOT EXCEED THE MAXIMUM ALLOWABLE LEAKAGE RATE OF 100 GALLONS PER INCH OF PIPE DIAMETER PER MILE OF PIPE PER DAY. ALL TESTS SHALL BE WITNESSED BY THE DESIGN ENGINEER.

SOIL EROSION AND SEDIMENT CONTROL NOTES:

- 1. ALL SOIL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL (2016), AS PUBLISHED BY THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION.
2. IN AREAS WHERE SOIL DISTURBANCE ACTIVITY HAS TEMPORARILY OR PERMANENTLY CEASED, THE APPLICATION OF SOIL STABILIZATION MEASURES MUST BE INITIATED BY THE END OF THE NEXT BUSINESS DAY AND COMPLETED WITHIN SEVEN (7) DAYS FROM THE DATE THE CURRENT SOIL DISTURBANCE ACTIVITY CEASED. IF THE SEASON PREVENTS THE ESTABLISHMENT OF A TEMPORARY COVER, THE DISTURBED AREAS SHALL BE MULCHED WITH STRAW OR EQUIVALENT MATERIAL. THE SEEDING SHALL BE DONE IN ACCORDANCE WITH THE NEW YORK GUIDELINES, AS FOLLOWS:
A) SEED: ANNUAL RYE GRASS APPLIED AT A RATE OF 30 LBS./ACRE OTHER SELECT MIXTURE AS DESCRIBED IN THE NEW YORK GUIDELINES.
B) MULCH: OLD HAY OR SMALL GRAIN STRAW APPLIED AT A RATE OF NINETY (90) POUNDS PER ONE THOUSAND SQUARE FT. OR TWO TONS PER ACRE. TO BE APPLIED AND ANCHORED ACCORDING TO THE NEW YORK GUIDELINES. WOODFIBER HYDROMULCH OR OTHER SPRAYABLE PRODUCTS APPROVED FOR EROSION CONTROL (NYLON WEB OR MESH) MAY BE USED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
C) IN AREAS OF SLOPES STEEPER THAN ONE ON TWO, JUTE MATTING SHALL BE USED TO STABILIZE SEEDED AND/OR PLANTED AREAS. JUTE MATTING SHALL BE INSTALLED AND ANCHORED IN ACCORDANCE WITH THE NEW YORK GUIDELINES.
3. ANY GRADED AREAS NOT SUBJECT TO FURTHER DISTURBANCE OR CONSTRUCTION TRAFFIC SHALL, WITHIN FIVE (5) DAYS AFTER FINAL GRADING, RECEIVE PERMANENT VEGETATIVE COVER IN COMBINATION WITH A SUITABLE MULCH AS FOLLOWS:
A) STEEP OR EROSION SLOPES GREATER THAN 2:1 (H:V) REFER TO SLOPE PROTECTION DETAIL.
B) RECREATIONAL AREAS AND LAWN REFER TO RECREATIONAL AREA IMPROVEMENT NOTES.
4. SLOPES STEEPER THAN ONE ON THREE SHALL BE STABILIZED IMMEDIATELY AFTER GRADING WITH ROLLED EROSION CONTROL PRODUCT.
5. PAVED ROADWAYS SHALL BE KEPT CLEAR AT ALL TIMES.
6. THE SITE SHALL AT ALL TIMES BE GRADED AND MAINTAIN SUCH THAT ALL STORM WATER RUNOFF IS DIVERTED TO SOIL EROSION OR SEDIMENT CONTROL FACILITIES. EXCEPT FOR MINOR PERIMETER EMBANKMENT AREAS, ALL GRADE AREAS SHALL BE DIRECTED THROUGH ONE OF THE SEDIMENTS BARRIERS. DIVERSION SWALES MAY BE USED TO DIRECT DRAINAGE RUNOFF UNTIL PERMANENT STORM DRAINAGE SYSTEM IS IN PLACE.
7. DUST SHALL BE CONTROLLED BY SPRINKLING OR OTHER APPROVED METHODS.
8. STOCKPILES SHALL NOT BE LOCATED WITHIN FIFTY FEET (50') OF ROADWAYS OR DRAINAGE FACILITIES. THE BASE OF ALL STOCKPILES SHALL BE PROTECTED BY A SILT FENCE, HAY BALES BARRIER OR COMBINATION OF BOTH.
9. SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED AND MAINTAIN BY THE CONTRACTOR ON A DAILY BASIS TO ENSURE THAT TEMPORARY AND PERMANENT DITCHES, PIPES AND STRUCTURES ARE CLEAR OF DEBRIS, THAT EMBANKMENTS AND BERMS ARE NOT BREACHED, AND THAT ALL BARRIERS ARE INTACT.
10. ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL FINAL ACCEPTANCE OF THE SITE WORK BY THE OWNER. UPON CERTIFICATION OF FINAL ACCEPTANCE, THE OWNER WILL ASSUME RESPONSIBILITY FOR THE CONTINUED MAINTENANCE OR PERMANENT SOIL EROSION AND SEDIMENTATION CONTROL MEASURES.
11. ALL DRAINAGE OUTLETS AND INLETS SHALL BE LINED WITH STONE RIP-RAP AS SPECIFIED ON THE PLANS AND/OR PER ENGINEER.
12. THE CONTRACTOR IS ULTIMATELY RESPONSIBLE FOR IMPLEMENTATION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL MEASURES.

UTILITY PLAN

SCALE: 1" = 20'



WATER LINE SPECIFICATIONS

MATERIALS

PIPE AND PIPE FITTINGS, GENERAL
A. DUCTILE IRON PIPE 3 INCHES AND LARGER: AWWA C151, CLASS 52. PUSH ON JOINTS SHALL BE USED TO JOIN PIPE SECTIONS.
1. LINING: AWWA C104, CEMENT MORTAR, SEAL COATED.
2. GASKETS: AWWA C111, RUBBER.
B. GASKETS: AWWA C153 DUCTILE IRON, 200 PSI PRESSURE RATING, MECHANICAL JOINTS TO BE RIGHT OPEN.
D.I.P. FITTING: AWWA C104, CEMENT MORTAR.
GASKETS: AWWA C111, RUBBER.

VALVES
A. NON-RISING STEM GATE VALVES, 3 INCHES AND LARGER: AWWA C500, CAST-IRON DOUBLE DISC, BRONZE DISC AND SEAT RINGS, OR AWWA C509, RESILIENT SEATED; CAST-IRON OR DUCTILE-IRON BODY AND BONNET, OS&Y, BRONZE STEM, 200-PSI WORKING PRESSURE, FLANGED ENDS. AS MANUFACTURED BY MUELLER OR EQUAL.
1. GATE VALVES ARE TO BE RIGHT OPEN.
B. VALVE BOXES: CAST-IRON BOX HAVING TOP SECTION AND COVER WITH LETTERING "WATER" BOTTOM SECTION WITH BASE OF SIZE TO FIT OVER VALVE AND BARREL APPROXIMATELY 5 INCHES IN DIAMETER, AND ADJUSTABLE CAST-IRON EXTENSION OF LENGTH REQUIRED FOR DEPTH OF BURY OF VALVE.
C. CURB STOPS: BRONZE BODY, GROUND KEY PLUG OR BALL, AND WIDE TEE HEAD, WITH INLET AND OUTLET TO MATCH SERVICE PIPING MATERIAL.
D. SERVICE BOXES FOR CURB STOPS: CAST-IRON BOX HAVING TELESCOPING TOP SECTION OF LENGTH REQUIRED FOR DEPTH OF BURY OF VALVE AND COVER HAVING LETTERING "WATER" AND BOTTOM SECTION WITH BASE OF SIZE TO FIT OVER CURB STOP AND BARREL APPROXIMATELY 3 INCHES IN DIAMETER.
E. TAPPING SLEEVE AND TAPPING VALVE: PROVIDE A COMPLETE ASSEMBLY, INCLUDING TAPPING SLEEVE, TAPPING VALVE, AND BOLTS AND NUTS. THE SLEEVE AND THE VALVE SHALL BE COMPATIBLE WITH THE TAPPING MACHINE TO BE USED.
1. TAPPING SLEEVE: STAINLESS STEEL 2 PIECE BOLTED SLEEVE WITH FLANGED OUTLET FOR NEW BRANCH CONNECTION. SLEEVE MAY HAVE MECHANICAL JOINT ENDS WITH RUBBER GASKETS OR HAVE SEALING RINGS IN THE SLEEVE BODY. SLEEVE SHALL MATE WITH THE SIZE AND TYPE PIPE MATERIAL BEING TAPPED. OUTLET FLANGE SHALL BE SIZE REQUIRED FOR BRANCH CONNECTION.

HYDRANTS
A. ALL HYDRANTS SHALL BE B-62-B, INCLUDING (2) 2-1/2" NOZZLES AND (1) 4" NOZZLE.

JOINT RESTRAINTS
A. PROVIDE JOINT RESTRAINTS FOR ALL VERTICAL AND HORIZONTAL BENDS CONFORMING TO MEGALUG SERIES 1100 MECHANICAL JOINT RESTRAINT AS MANUFACTURED BY EBAA IRON SALES INC., EASTLAND, TEXAS.

BEDDING MATERIALS
A. BEDDING: SEE TRENCHING DETAILS SHOWN ON THE CONTRACT DRAWINGS.

IDENTIFICATION
A. PLASTIC UNDERGROUND WARNING TAPES: POLYETHYLENE PLASTIC TAPE, 6 INCHES WIDE BY 4 MILS THICK, SOLID BLUE IN COLOR WITH CONTINUOUSLY PRINTED CAPTION IN BLACK LETTERS "CAUTION WATER LINE BURIED BELOW."

INSTALLATION
PREPARATION OF BURIED PIPE FOUNDATION
A. GRADE TRENCH BOTTOM TO PROVIDE A SMOOTH, FIRM, STABLE, AND ROCK-FREE FOUNDATION THROUGHOUT THE LENGTH OF THE PIPING.
B. REMOVE UNSTABLE, SOFT, AND UNSUITABLE MATERIALS AT THE SURFACE UPON WHICH PIPES ARE TO BE LAD AND BACKFILL WITH CLEAN SAND OR PEA GRAVEL TO INDICATED LEVEL. BEFORE REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL, OBTAIN OWNERS APPROVAL.
C. SHAPE BOTTOM OF TRENCH TO FIT BOTTOM OF PIPING. FILL UNEVENNESS WITH TAMPED SAND BACKFILL. DIG BELL HOLES AT EACH PIPE JOINT TO RELIEVE THE BELLS OF ALL LOADS AND TO ENSURE CONTINUOUS BEARING OF THE PIPE BARREL ON THE FOUNDATION.

INSTALLATION OF PIPE AND PIPE FITTINGS

A. DUCTILE-IRON PIPE: INSTALL WITH CEMENT-MORTAR-LINED, DUCTILE-IRON WITH MECHANICAL JOINT FITTINGS IN ACCORDANCE WITH AWWA C600. INSTALL JOINT RESTRAINTS, AS REQUIRED. BACKFILL PER THE REQUIREMENTS OF THE TRENCHING DETAILS ON THE CONTRACT DRAWINGS.
B. DEPTH OF COVER: PROVIDE MINIMUM COVER OVER PIPING OF 12 INCHES BELOW AVERAGE LOCAL FROST DEPTH OR 60 INCHES BELOW FINISHED GRADE, WHICHEVER IS GREATER.
C. WATER MAIN CONNECTION: TAP WATER MAIN WITH SIZE AND IN LOCATION AS INDICATED, IN ACCORDANCE WITH REQUIREMENTS OF WATER UTILITY.
1. INSTALL TAPPING SLEEVE AND TAPPING VALVE IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.
2. INSTALL TAPPING SLEEVE ON PIPE TO BE TAPPED. POSITION FLANGED OUTLET FOR GATE VALVE.
3. INSTALL GATE VALVE ONTO TAPPING SLEEVE. COMPLY WITH AWWA C600. INSTALL VALVE WITH STEM POINTING UP AND WITH CAST-IRON VALVE BOX.
4. USE TAPPING MACHINE COMPATIBLE WITH VALVE AND TAPPING SLEEVE. CUT HOLE IN MAIN. REMOVE TAPPING MACHINE AND CONNECT WATER SERVICE PIPING.

INSTALLATION OF VALVES

A. GENERAL APPLICATION: USE MECHANICAL JOINT AND VALVES FOR 3 INCH AND LARGER BURIED INSTALLATION.
B. AWWA-TYPE GATE VALVES: COMPLY WITH AWWA C600. INSTALL BURIED VALVES WITH STEM POINTING UP AND WITH CAST-IRON VALVE BOX.

INSTALLATION OF IDENTIFICATION

A. INSTALL CONTINUOUS PLASTIC UNDERGROUND WARNING TAPE DURING BACKFILLING OF TRENCH FOR UNDERGROUND WATER SERVICE PIPING. LOCATE 6 TO 8 INCHES BELOW FINISHED GRADE, DIRECTLY OVER PIPING.

FIELD QUALITY CONTROL

A. PIPING TESTS: CONDUCT PIPING TESTS BEFORE JOINTS ARE COVERED AND AFTER THRUST BLOCKS HAVE SUFFICIENTLY HARDENED. FILL PIPELINE 24 HOURS PRIOR TO TESTING AND APPLY TEST PRESSURE TO STABILIZE SYSTEM. USE ONLY POTABLE WATER.
B. HYDROSTATIC TESTS: **COORDINATE WATER MAIN PRESSURE TEST WITH CITY WATER DEPARTMENT** TEST AT NOT LESS THAN 1-1/2 TIMES WORKING PRESSURE FOR 2 HOURS. TEST PROCEDURE SHALL BE IN ACCORDANCE WITH AWWA SPECIFICATION C-600-05, SECTION 4, LATEST REVISION. LEAKAGE TEST SHALL BE CONDUCTED CONCURRENTLY WITH THE PRESSURE TEST IN ACCORDANCE WITH AWWA SPECIFICATION C-600-05, LATEST REVISION. TESTING SHALL BE WITNESSED AND APPROVED BY NYS LICENSED ENGINEER.

CLEANING

A. CLEAN AND DISINFECT WATER DISTRIBUTION PIPING AS FOLLOWS:
1. PURGE ALL NEW WATER DISTRIBUTION PIPING SYSTEMS AND PARTS OF EXISTING SYSTEMS THAT HAVE BEEN ALTERED, EXTENDED, OR REPAIRED PRIOR TO USE. USE THE PURGING AND DISINFECTING PROCEDURE PRESCRIBED BY THE AUTHORITY HAVING JURISDICTION OR, IN CASE A METHOD IS NOT PRESCRIBED BY THAT AUTHORITY, USE THE PROCEDURE DESCRIBED IN AWWA C651.99, OR AS DESCRIBED BELOW.
A. FILL THE SYSTEM OR PART THEREOF WITH A WATER/CHLORINE SOLUTION CONTAINING AT LEAST 50 PARTS PER MILLION OF CHLORINE. ISOLATE (VALVE OFF) THE SYSTEM OR PART THEREOF AND ALLOW TO STAND FOR 24 HOURS.
B. DRAIN THE SYSTEM OR PART THEREOF OF THE PREVIOUS SOLUTION AND REFILL WITH A WATER/CHLORINE SOLUTION CONTAINING AT LEAST 200 PARTS PER MILLION OF CHLORINE AND ISOLATE AND ALLOW TO STAND FOR 3 HOURS.
C. FOLLOWING THE ALLOWED STANDING TIME, FLUSH THE SYSTEM WITH CLEAN, POTABLE WATER UNTIL CHLORINE DOES NOT REMAIN IN THE WATER COMING FROM THE SYSTEM.
D. PERFORM A MINIMUM OF TWO (2) WATER COLIFORM SAMPLES. THE LABORATORY MUST BE CERTIFIED BY THE NEW YORK STATE HEALTH DEPARTMENT. TEST RESULTS MUST BE FORWARDED TO THE DUTCHESS COUNTY DEPARTMENT OF HEALTH.



LOCATION MAP

SCALE 1" = 2000'

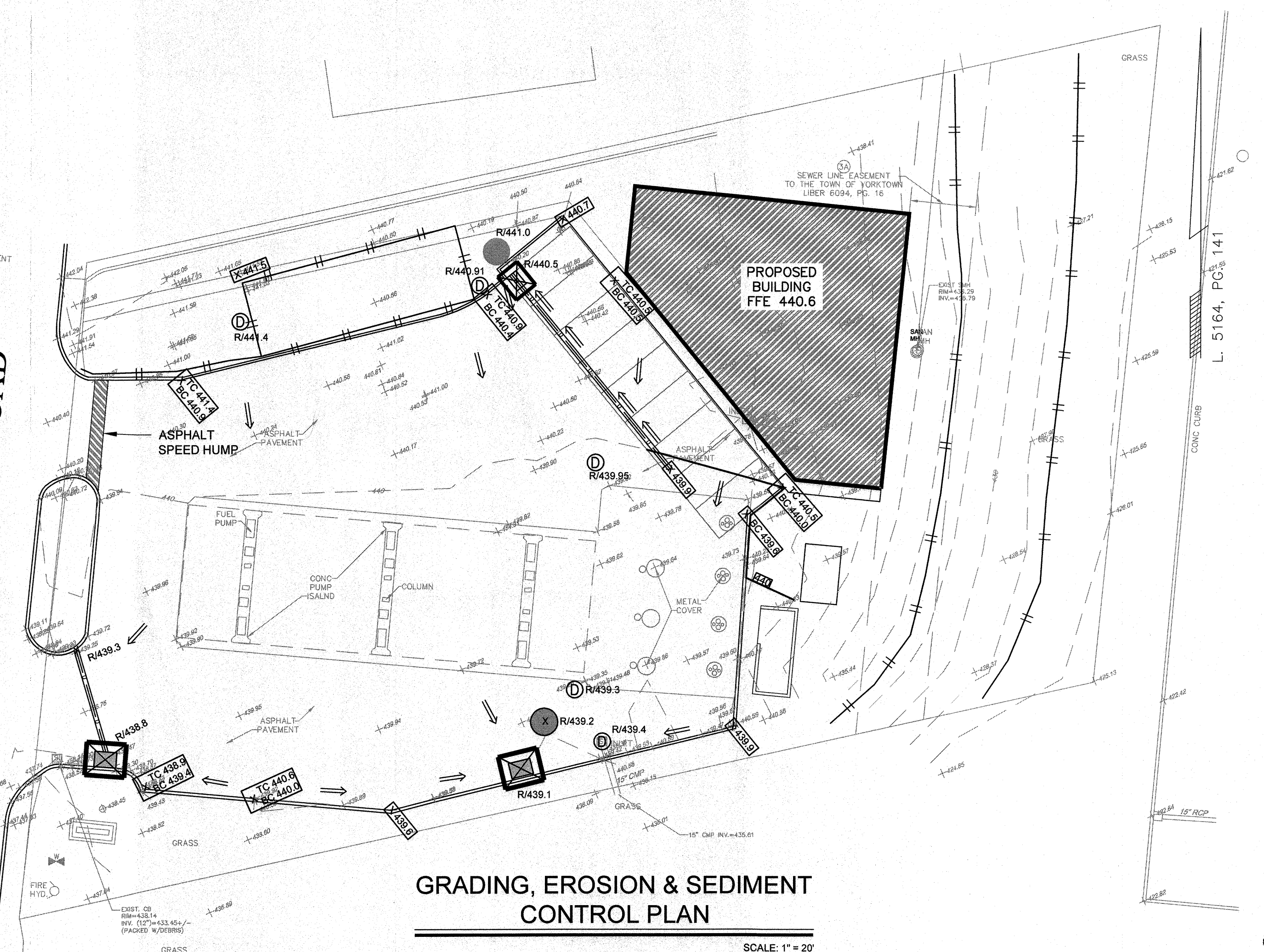
LEGEND

- EXISTING SPOT GRADE: X 40.17
PROPOSED DRAINAGE FLOW: arrow
PROPOSED CATCH BASIN: square with 'C'
PROPOSED CURB INLET: square with 'I'
PROPOSED DRAINAGE MANHOLE: circle with 'M'
PROPOSED SPOT GRADE/CURB ELEV.: X TC 440.6 BC 440.0
PROPOSED BUILDING: rectangle with 'B'
PROPOSED INLET PROTECTION: square with 'X'
PROPOSED MAJOR CONTOUR: dashed line
PROPOSED MINOR CONTOUR: solid line
PROPOSED SILT FENCE: vertical line with 'S'
PROPOSED DRAINAGE: line with 'D'
PROPOSED DRAINAGE 12" CMP: line with '12" CMP'
PROPOSED DRAINAGE 30 LF @ 2.0%: line with '30 LF @ 2.0%'
PROPOSED CURB: line with 'C'
PROPOSED WATER SERVICE: line with 'WS'
PROPOSED SEWER LATERAL: line with 'S'

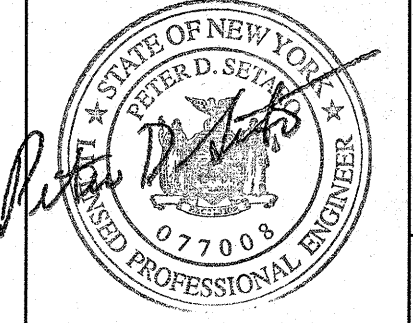
SAW MILL RIVER ROAD

GRADING, EROSION & SEDIMENT CONTROL PLAN

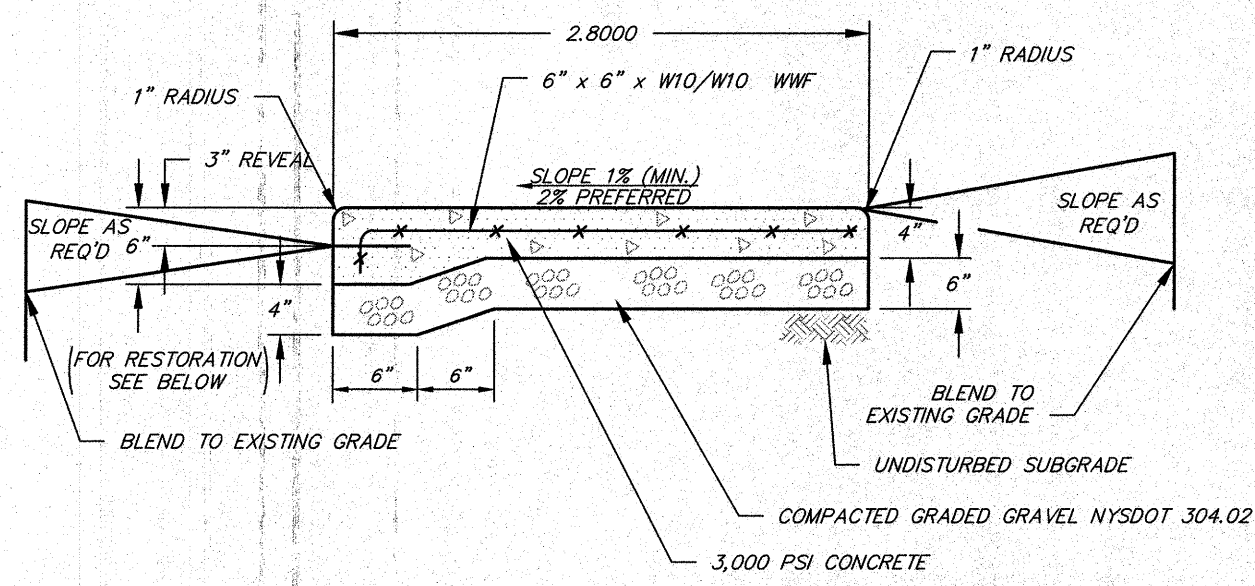
SCALE: 1" = 20'



MOBILE GAS STATION STORE
TOWN OF YORKTOWN WESTCHESTER COUNTY, NY
UTILITY, GRADING, EROSION & SEDIMENT CONTROL PLANS
MORRIS ASSOCIATES, ENGINEERING & SURVEYING CONSULTANTS, PLLC
9 Elks Lane, Poughkeepsie, New York 12601
Phone No. (845) 454-3411 Fax No. (845) 473-1962
64 Great Street - Suite 1, Hudson, New York 12534
Phone No. (518) 828-2300 Fax No. (518) 828-3963
DATE 11/30/2017 SCALE 1"=20' DESIGNED BY: AL DRAWN BY: PS FILE NO. 214098 DRAWING NO. 1 OF 3

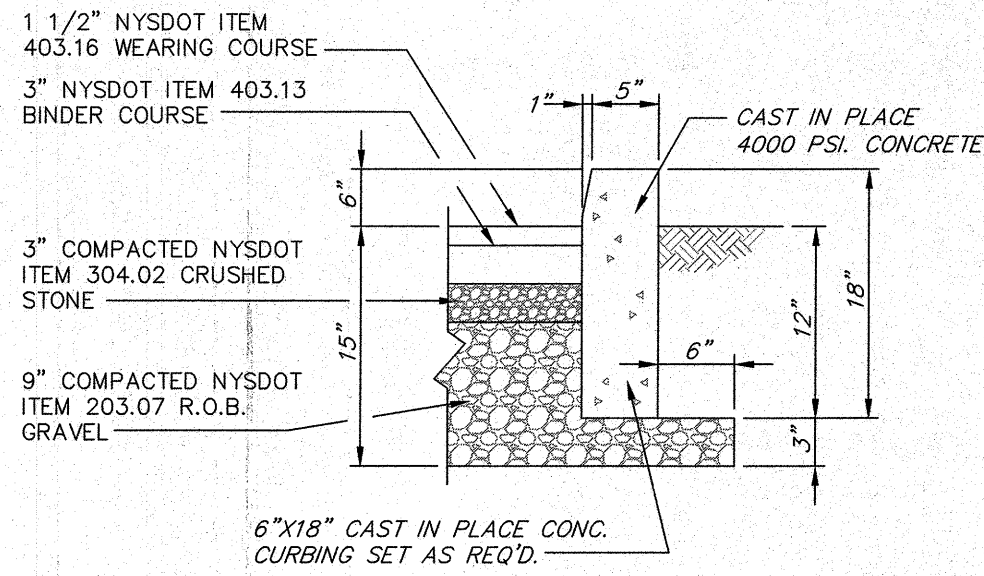


Drawing Name: C:\Users\skyle.southern\AppData\Local\Temp\AcPublish_7576\Saw-Mill-River-Rd-Drainage Plan.dwg
Xrefs Attached: 24 x 36 Landscape (X-ref); SITE PLAN; 092 CAD-Sy; X-BORDER DRAINAGE MAP; X-BORDER
Date Printed: Dec 06, 2017, 3:13pm



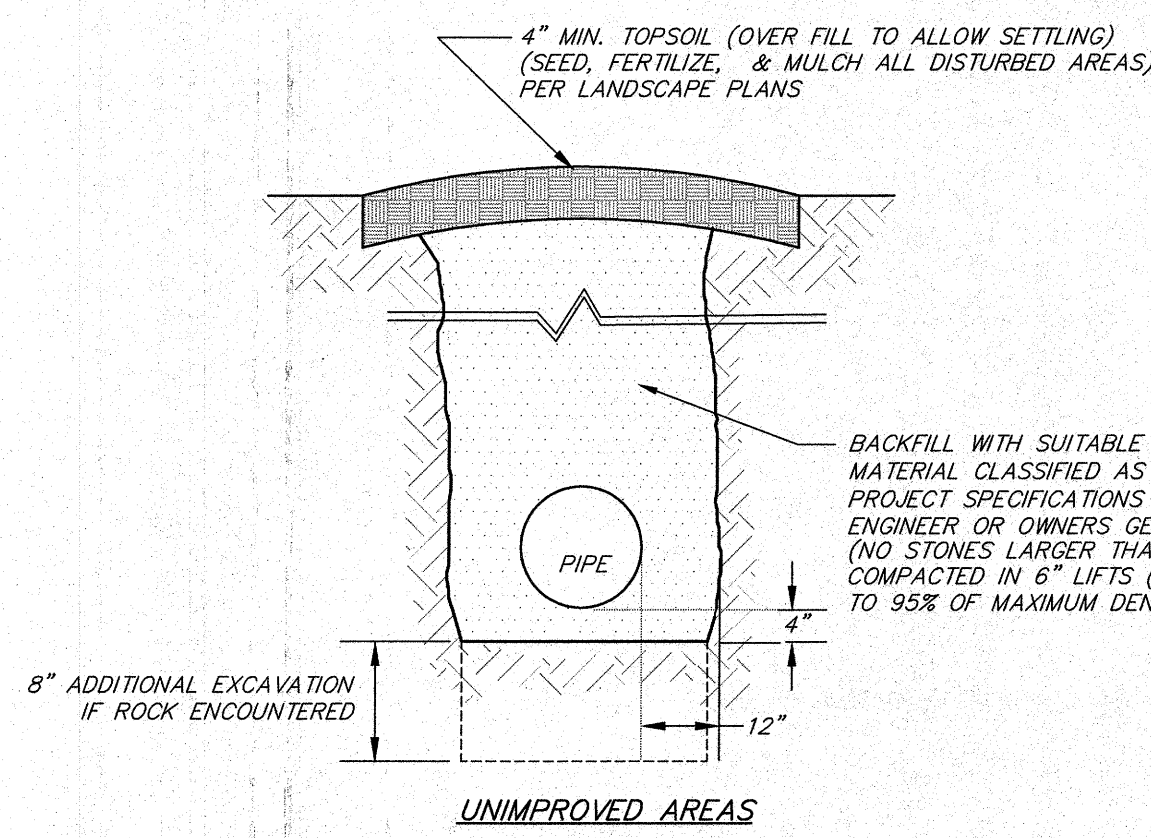
CONCRETE SIDEWALK DETAIL

NOTE:
PROVIDE TOOLED JOINTS AT 48" ON CENTER
PROVIDE 1/2" EXP. JOINT MATERIAL AT 12" ON CENTER



TYP. CAST-IN-PLACE CONCRETE CURB DETAIL

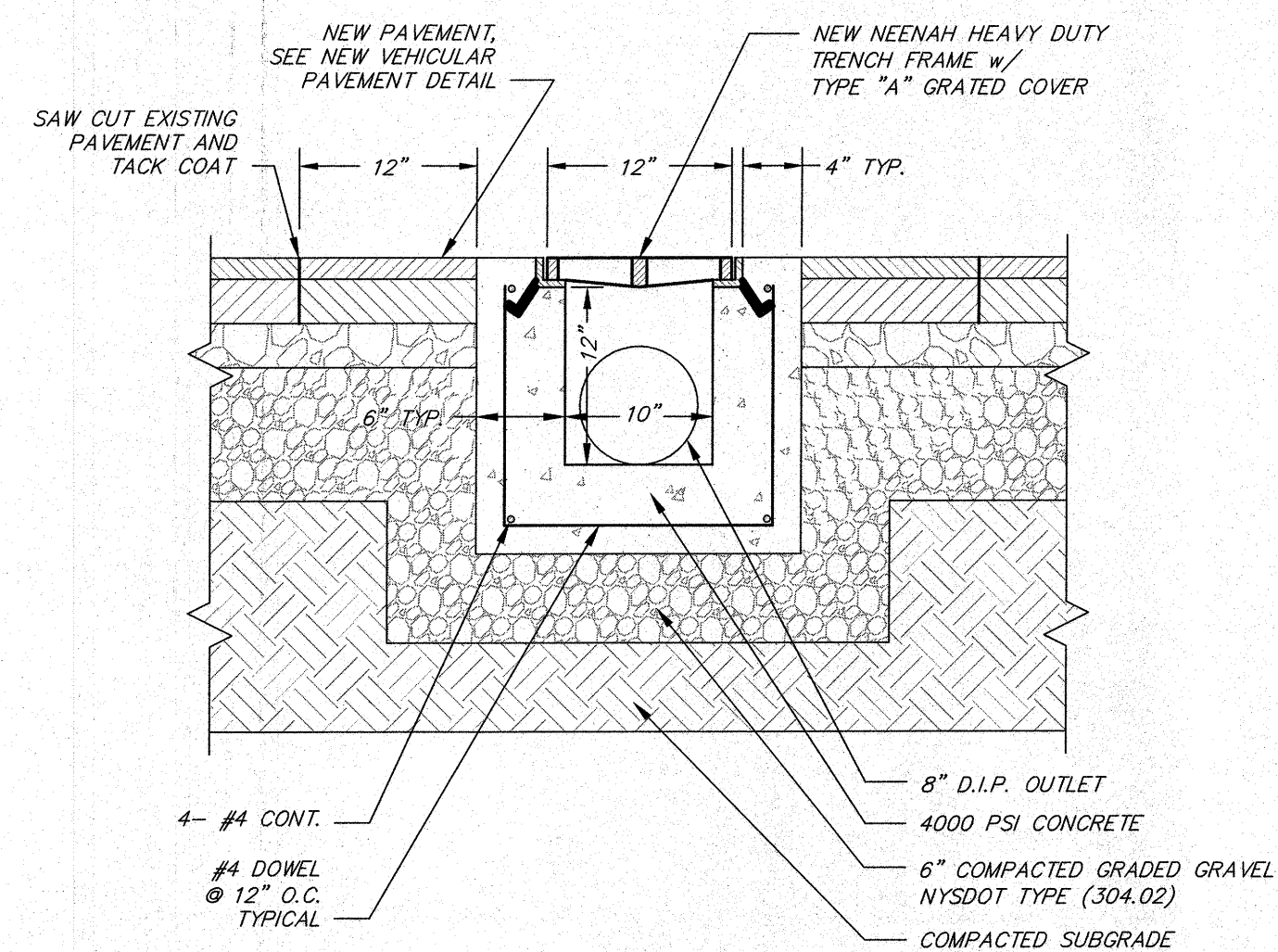
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STORM DRAINAGE TRENCH DETAIL

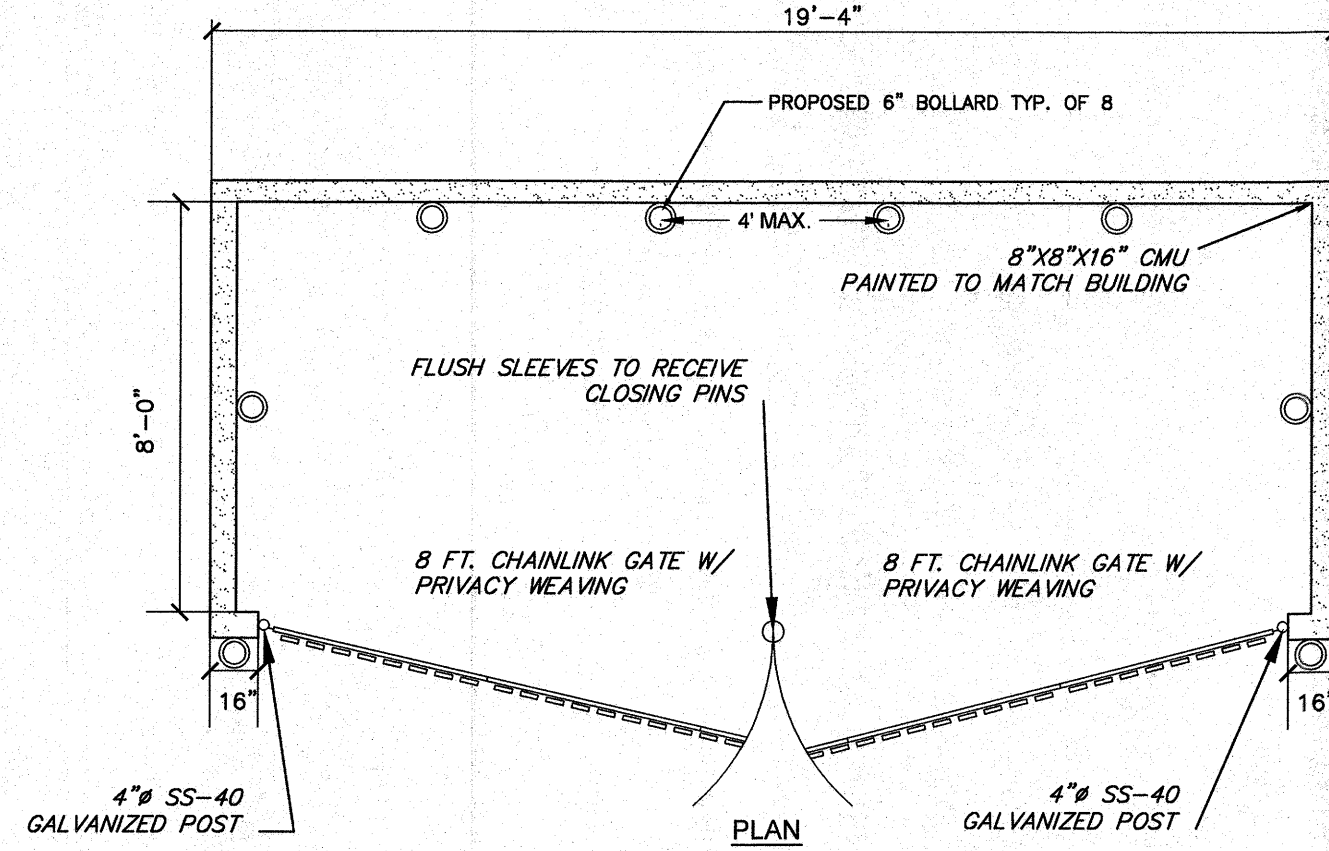
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NOTE:
EXCAVATING OVER 5' REQUIRES SHEETING/SHORING OR OVER EXCAVATION OF TRENCH SIDE WALLS PER OSHA.



HEAVY DUTY TRENCH DRAIN DETAIL

N.T.S.

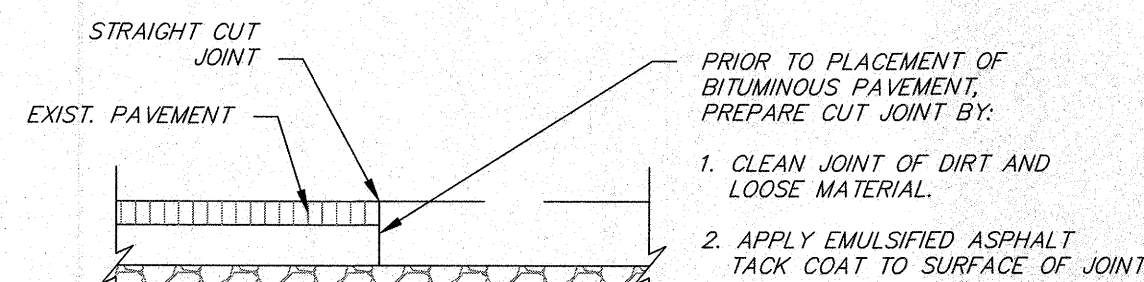


TRASH ENCLOSURE

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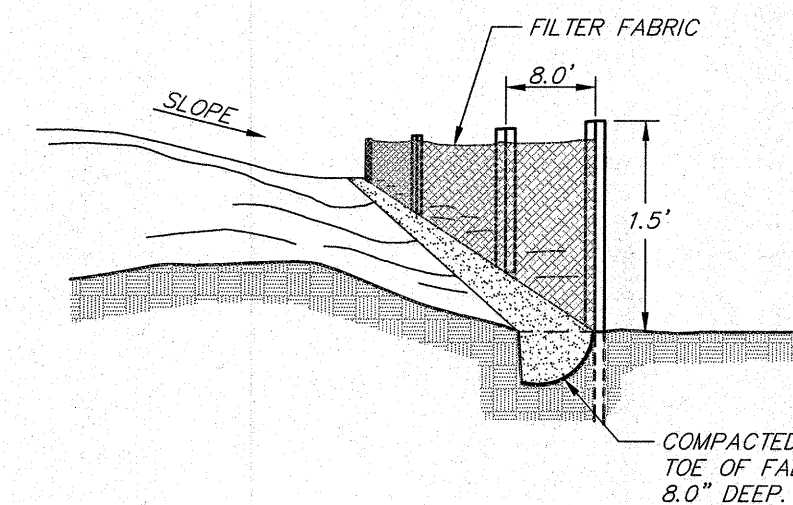
BACKFILL TRENCH TO BOTTOM OF SUBGRADE WITH R.O.B. GRAVEL CONFORMING TO THE REQUIREMENT FOR "STRUCTURAL FILL" AS DEFINED IN PROJECT SPECIFICATIONS TO 95% OF MAXIMUM DENSITY (ASTM D698) COMPACTED IN 6" LIFTS (MAX) TO 95% OF MAXIMUM DENSITY (ASTM D698)

PAVED AREAS



SAWCUT DETAIL

N.T.S.



NOTES:
1. LOCATE POSTS DOWNSIDE OF FABRIC TO HELP SUPPORT FENCING.
2. BURY TOE OF FENCE APPROXIMATELY 8" DEEP TO PREVENT UNDERCUTTING.
3. WHEN JOINTS ARE NECESSARY, SECURELY FASTEN THE FABRIC AT A SUPPORT POST WITH OVERLAP TO THE NEXT POST.

TYPICAL SILT FENCE DETAIL

N.T.S.

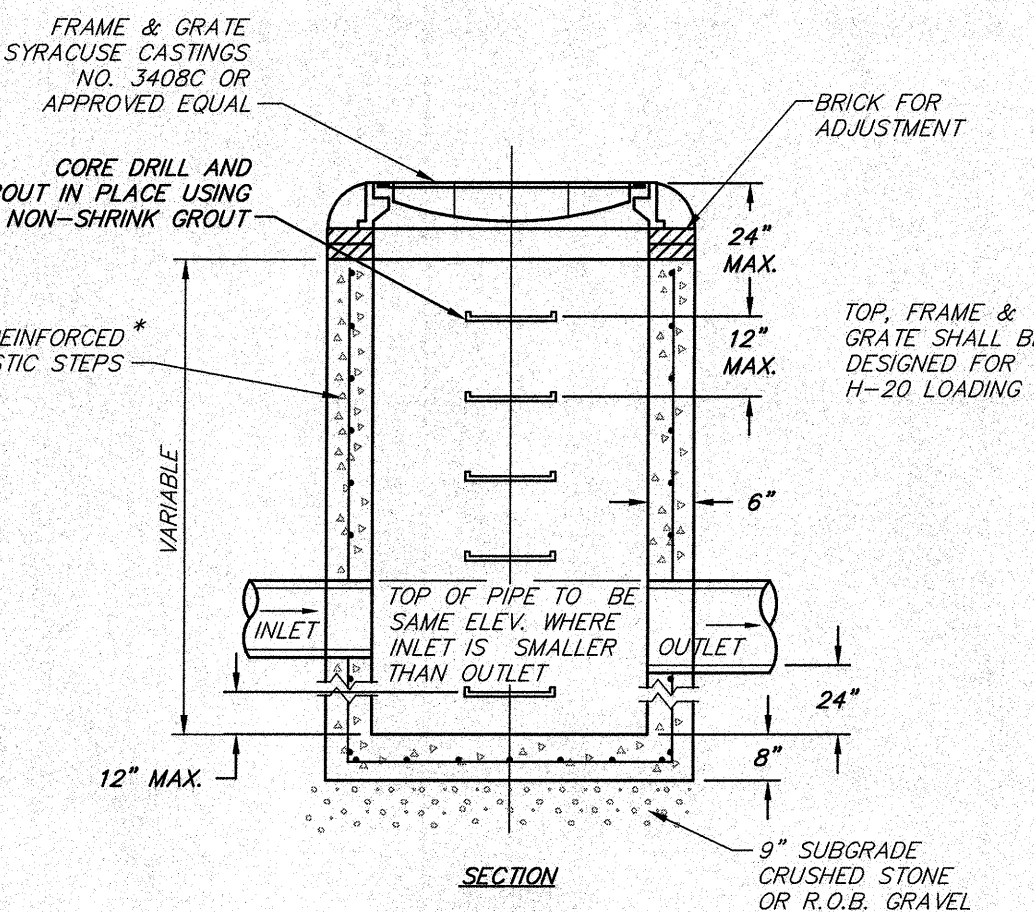
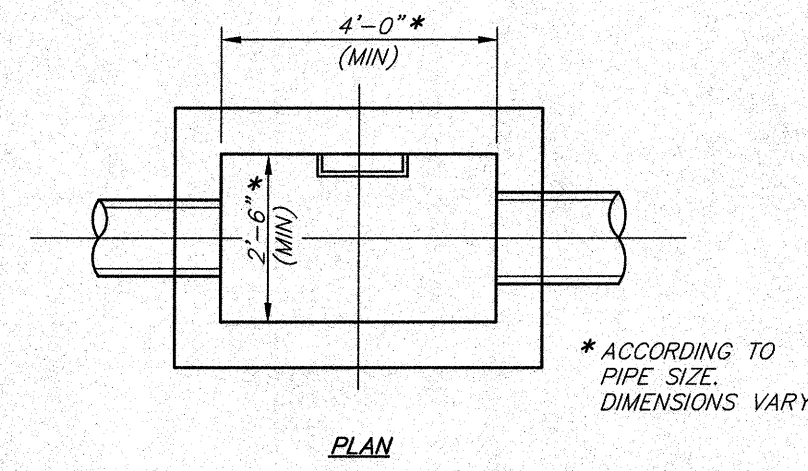


P4-6C

NOTES:
THE P4-6 SIGN SHALL HAVE GREEN LEGEND, EXCEPT THAT THE DISABLED PERSON SYMBOL SHALL HAVE WHITE LEGEND ON A BLUE BACKGROUND. WHERE USED TO IDENTIFY A SINGLE MARKED PARKING SPACE, THE ARROW MAY BE OMITTED.

HANDICAP PARKING SIGN

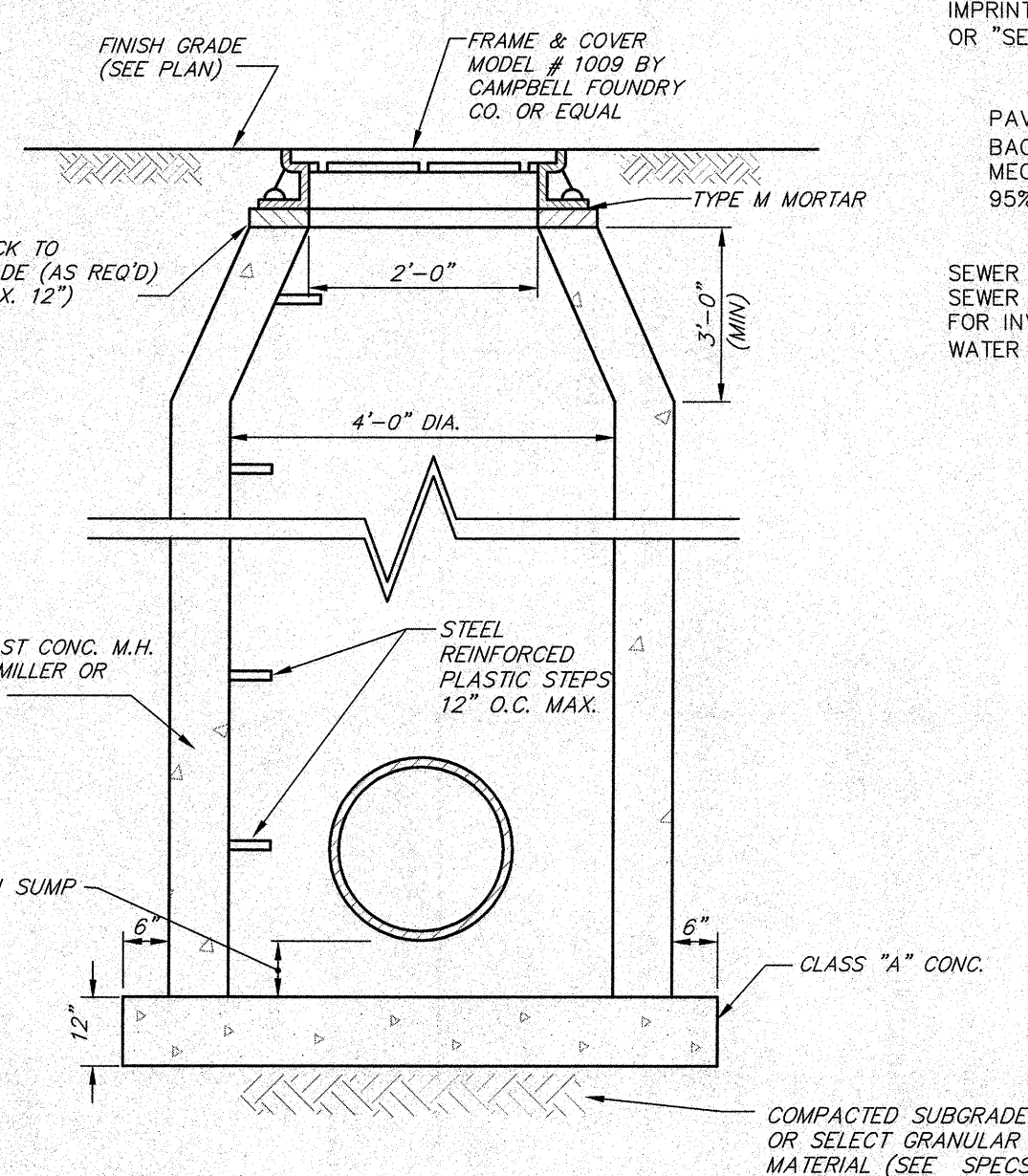
N.T.S.



TYPICAL BASIN DETAIL

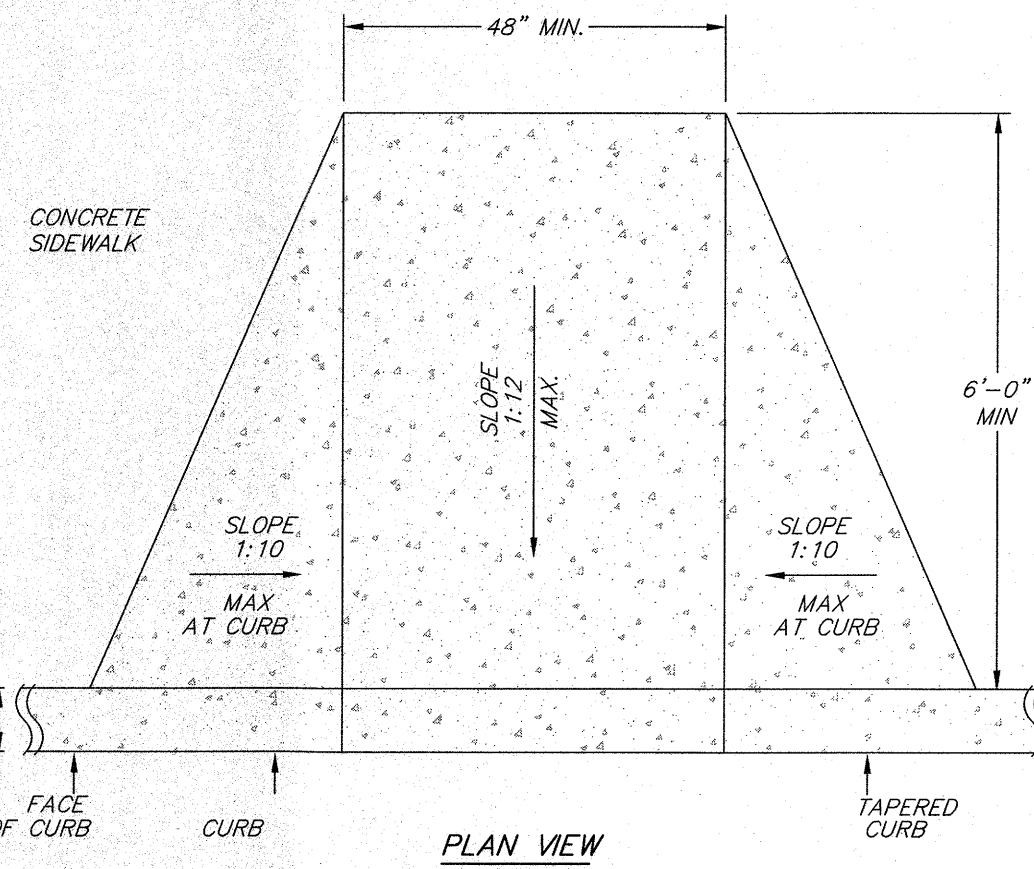
N.T.S.

* CONFORMS TO NYSDOT 725-02.01



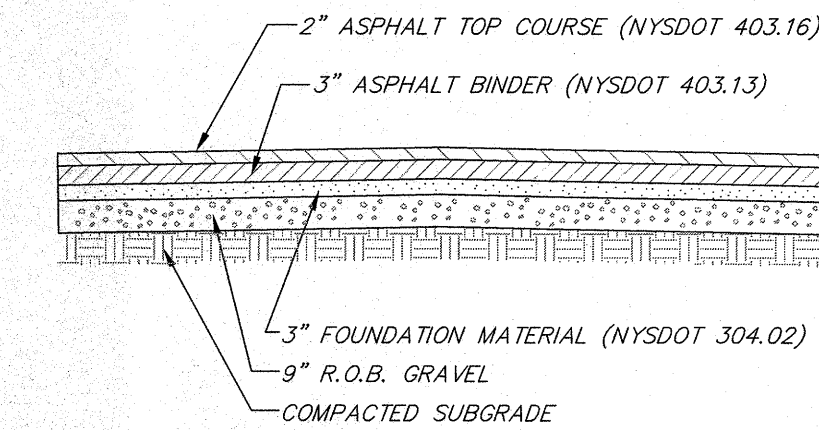
TYPICAL STORM MANHOLE DETAIL

N.T.S.



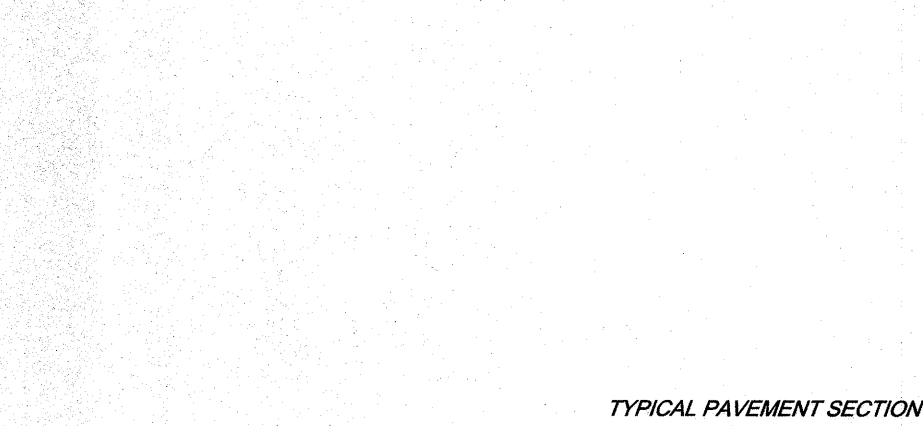
SIDEWALK HANDICAP ACCESS

N.T.S.

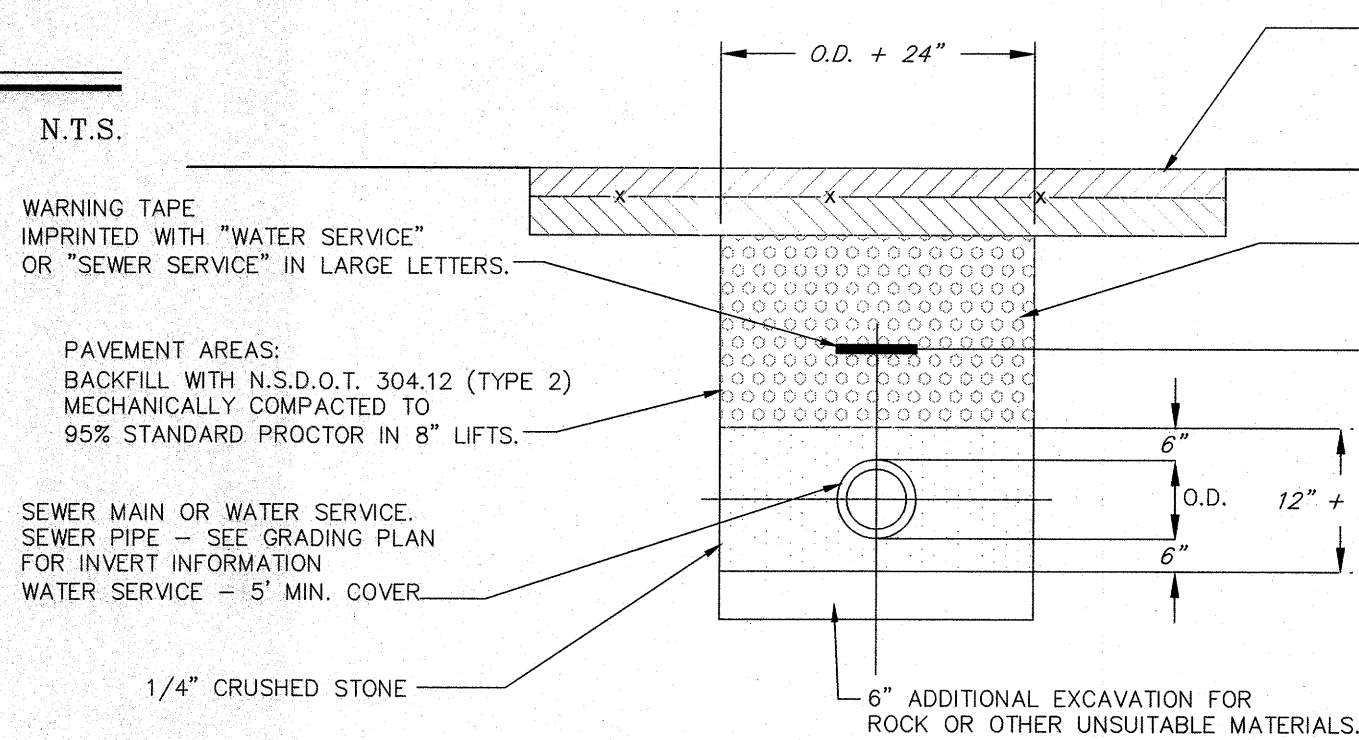


TYPICAL PAVEMENT DETAIL

N.T.S.



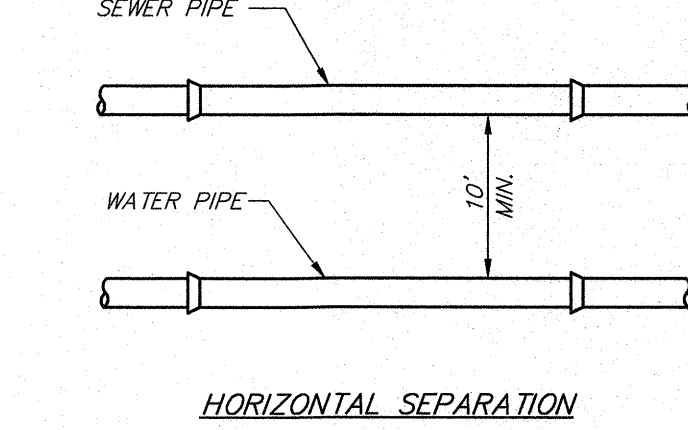
TYPICAL PAVEMENT SECTION



TYPICAL ON-SITE WATER / SEWER TRENCH DETAIL

N.T.S.

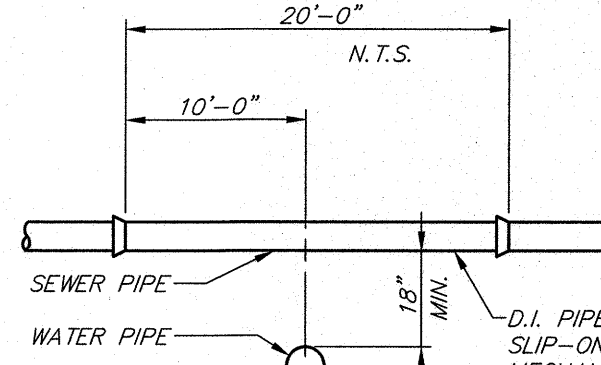
WARNING TAPE IMPRINTED WITH "WATER SERVICE" OR "SEWER SERVICE" IN LARGE LETTERS.
PAVEMENT AREAS: BACKFILL WITH N.S.D.O.T. 304.12 (TYPE 2) MECHANICALLY COMPACTED TO 95% STANDARD PROCTOR IN 8" LIFTS.
SEWER MAIN OR WATER SERVICE. SEE GRADING PLAN FOR INVERT INFORMATION. WATER SERVICE - 5' MIN. COVER.
1/4" CRUSHED STONE
6" ADDITIONAL EXCAVATION FOR ROCK OR OTHER UNSUITABLE MATERIALS.



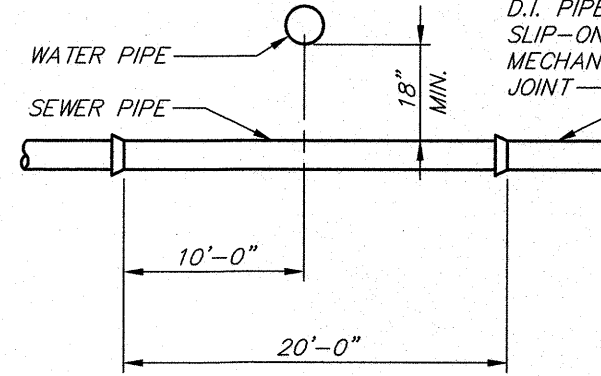
HORIZONTAL SEPARATION PLAN

NOTE:

WATER PIPE SHALL BE ON BENCH OF UNDISTURBED SOIL IF IN THE SAME TRENCH AS SEWER PIPE.



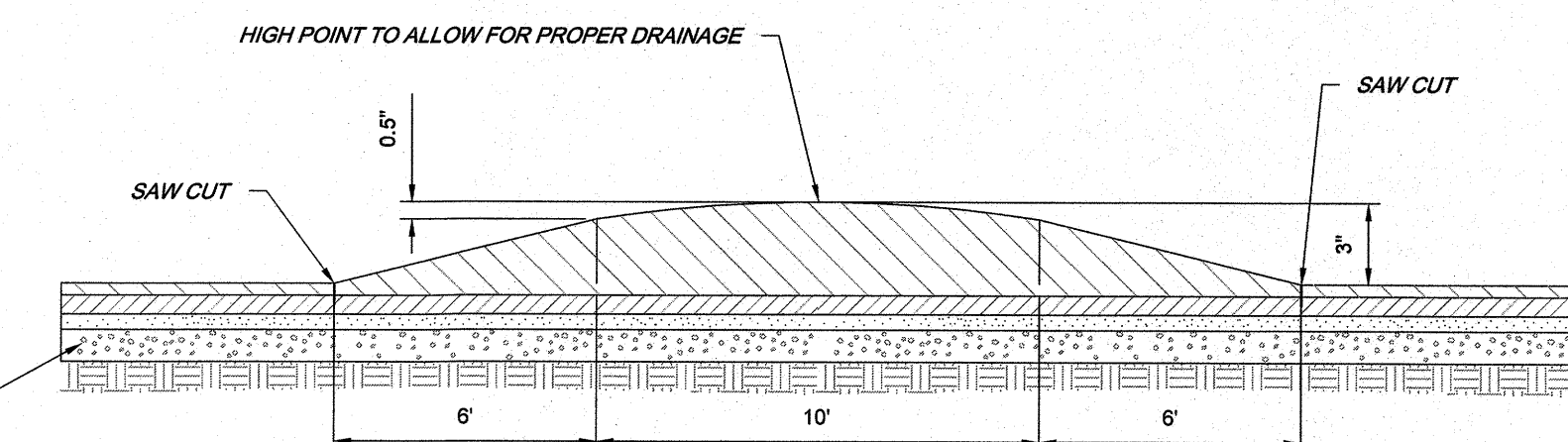
WATER MAIN CROSSING ELEVATION



CROSSING UNDER WATER MAIN ELEVATION (PREFERRED OPTION)

SEWER AND WATER CROSSING DETAIL

N.T.S.



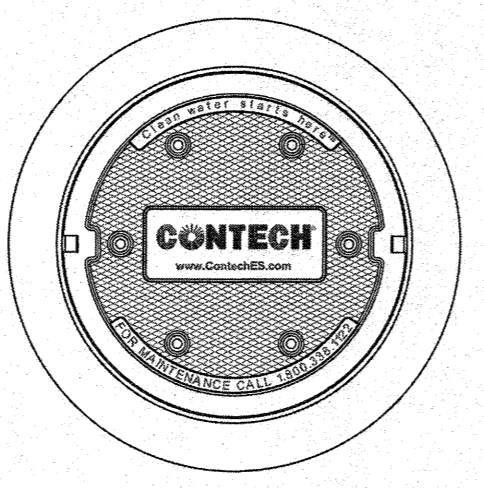
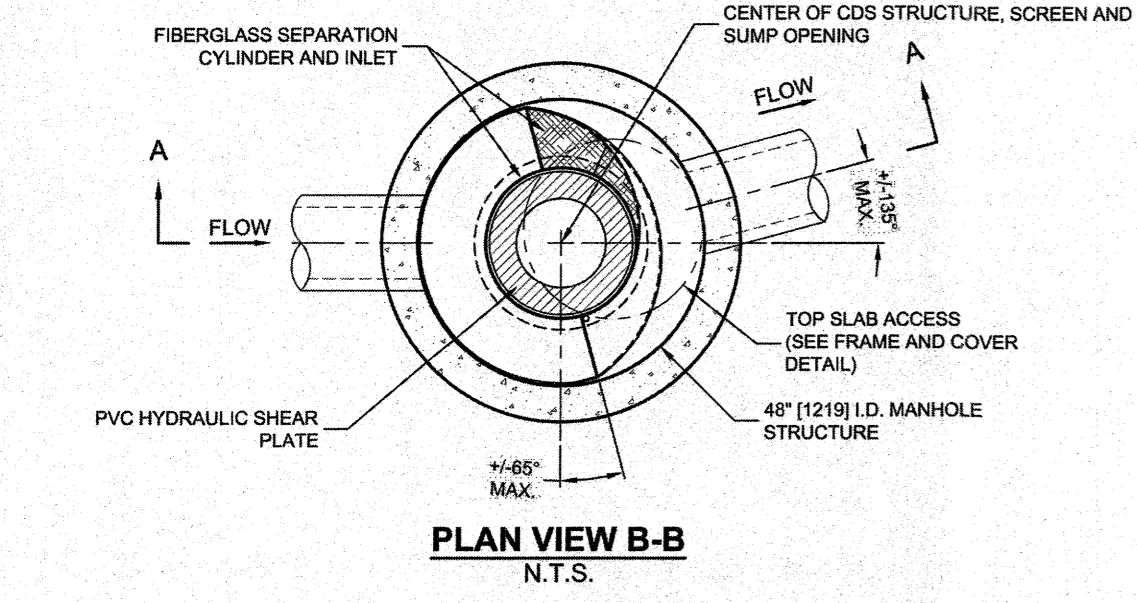
BITUMINOUS SPEED HUMP

N.T.S.

NOTE:
SPEED HUMP SHALL CONFORM TO ITS GUIDELINES IN ADDITION TO ANY FEDERAL, STATE, AND LOCAL REQUIREMENTS.

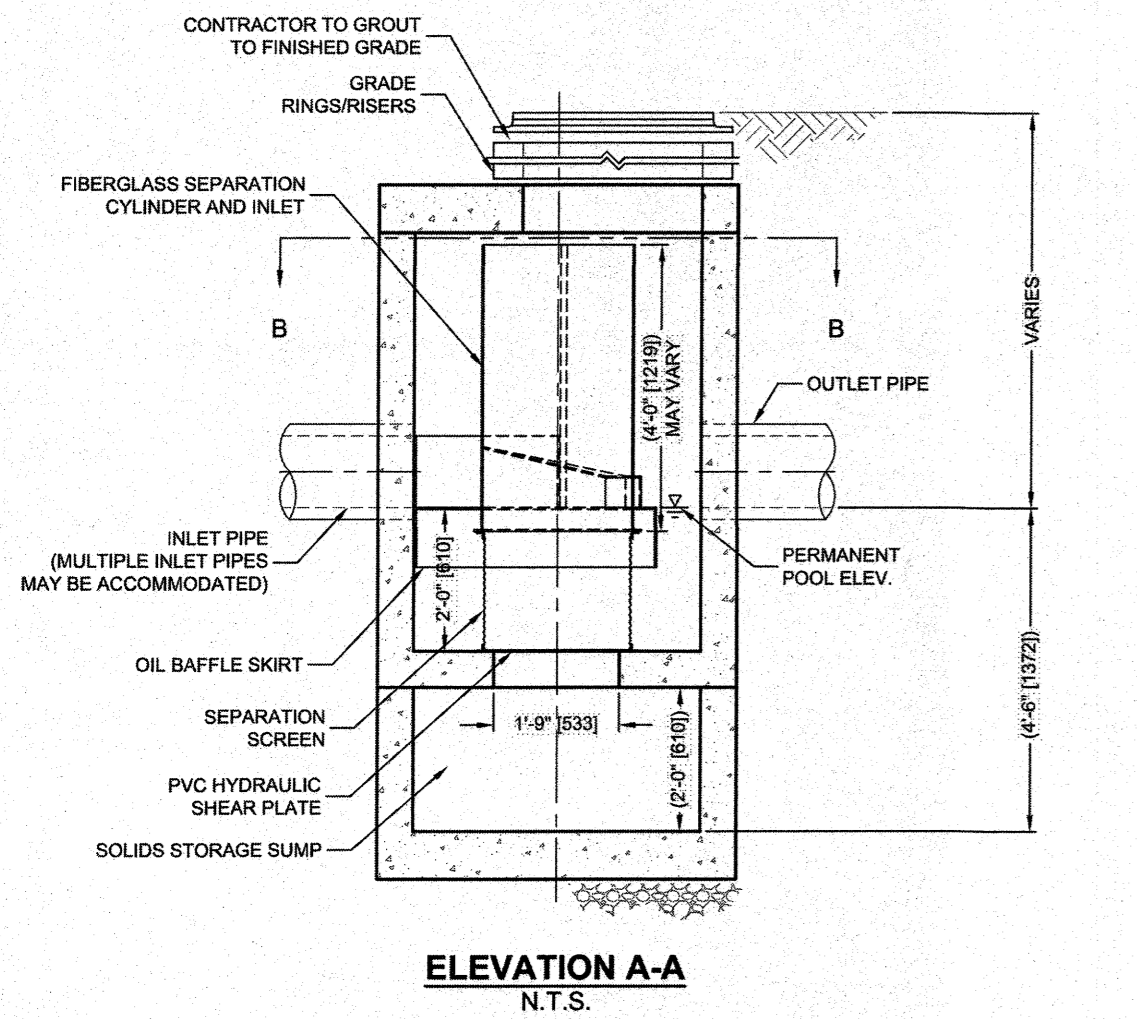
REV. No.	DESCRIPTION	DATE	BY
MOBILE GAS STATION STORE			
TOWN OF YORKTOWN		WESTCHESTER COUNTY, NY	
DETAILS			
MORRIS ASSOCIATES, ENGINEERING & SURVEYING CONSULTANTS, PLLC			
9 Elks Lane, Poughkeepsie, New York 12601			
Phone No. (845) 454-3411 Fax No. (845) 473-1962			
64 Green Street - Suite 1, Hudson, New York 12534			
Phone No. (518) 828-2300 Fax No. (518) 828-3963			
DATE	SCALE	DESIGNED BY	FILE No.
11/30/2017	AS SHOWN	AL	214098
		DRAWN BY	DRAWING NO.
		KS	2 OF 3
		CHECKED BY	
		PS	

CDS-4-C (CDS2015-4) DESIGN NOTES
 CDS-4-C (CDS2015-4) RATED TREATMENT CAPACITY IS 0.93 CFS. IF THE SITE CONDITIONS EXCEED MAXIMUM HYDRAULIC INTERNAL BYPASS CAPACITY, AN UPSTREAM BYPASS STRUCTURE IS REQUIRED.



SITE SPECIFIC DATA REQUIREMENTS

STRUCTURE ID	*
WATER QUALITY FLOW RATE (CFS OR L/s)	*
PEAK FLOW RATE (CFS OR L/s)	*
RETURN PERIOD OF PEAK FLOW (YRS)	*
SCREEN APERTURE (2400)	*
PIPE DATA: I.E. MATERIAL DIAMETER	
INLET PIPE 1	*
INLET PIPE 2	*
OUTLET PIPE	*
RIM ELEVATION	*
ANTI-FLOTATION BALLAST	WIDTH HEIGHT
NOTES/SPECIAL REQUIREMENTS:	
* PER ENGINEER OF RECORD	



GENERAL NOTES
 1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
 2. DIMENSIONS MARKED WITH (*) ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.
 3. FOR FABRICATION DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS REPRESENTATIVE. www.conteches.com
 4. CDS WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
 5. STRUCTURE SHALL MEET ASHTO H250 LOAD RATING, ASSUMING GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET H250 (ASHTO M 300) AND BE CAST WITH THE CONTECH LOGO.
 6. IF REQUIRED, PVC HYDRAULIC SHEAR PLATE IS PLACED ON SHELF AT BOTTOM OF SCREEN CYLINDER. REMOVE AND REPLACE AS NECESSARY DURING MAINTENANCE CLEANING.

INSTALLATION NOTES
 A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
 B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CDS MANHOLE STRUCTURE (LIFTING CLUTCHES PROVIDED).
 C. CONTRACTOR TO ADD JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS, AND ASSEMBLE STRUCTURE.
 D. CONTRACTOR TO PROVIDE, INSTALL AND GROUT PIPES. MATCH PIPE INVERTS WITH ELEVATIONS SHOWN.
 E. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

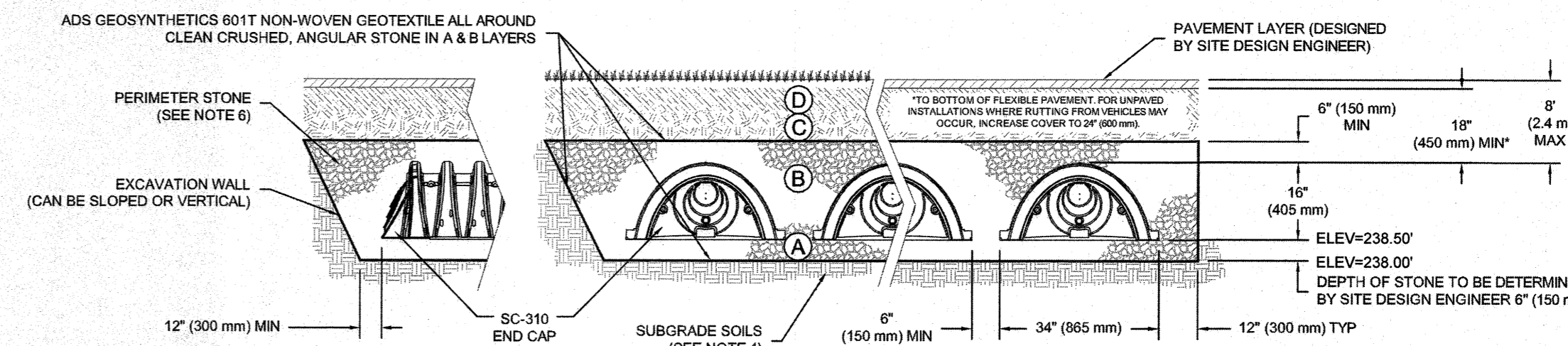
CONTECH ENGINEERED SOLUTIONS LLC
 www.conteches.com
 9025 Centre Pointe Dr., Suite 400, West Chester, OH 45399
 800-338-1122 513-645-7000 513-645-7993 FAX

CDS-4-C (CDS2015-4)
 ONLINE CDS
 STANDARD DETAIL

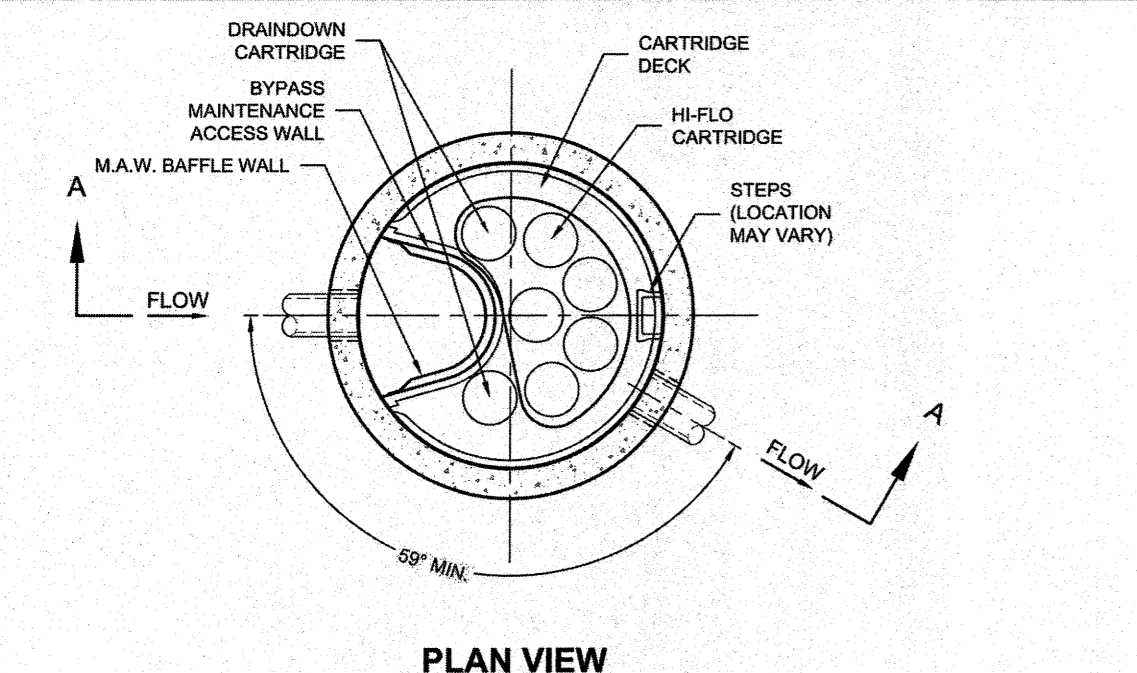
ACCEPTABLE FILL MATERIALS: STORMTECH SC-310 CHAMBER SYSTEMS

MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	AASHTO M145* A-1, A-2.4, A-3 OR AASHTO M43* 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN).
B	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	AASHTO M43* 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
A	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	AASHTO M43* 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE.**

PLEASE NOTE:
 1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (ASHTO M43) STONE".
 2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
 3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.



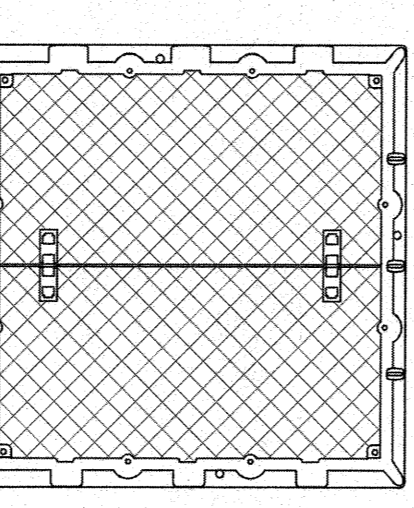
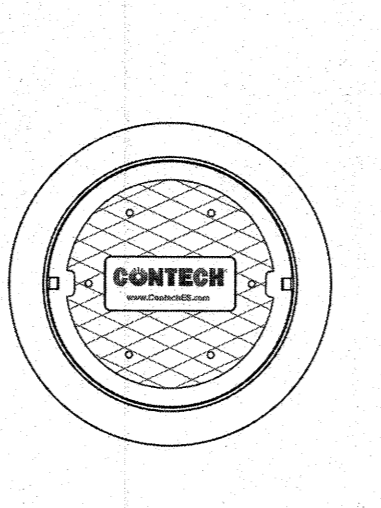
- NOTES:**
- SC-310 CHAMBERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F2418 "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS", OR ASTM F2922 "STANDARD SPECIFICATION FOR POLYETHYLENE (PE) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
 - SC-310 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
 - "ACCEPTABLE FILL MATERIALS" TABLE ABOVE PROVIDES MATERIAL LOCATIONS, DESCRIPTIONS, GRADATIONS, AND COMPACTION REQUIREMENTS FOR FOUNDATION, EMBEDMENT, AND FILL MATERIALS.
 - THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
 - PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
 - ONCE LAYER 'C' IS PLACED, ANY SOIL MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.



JELLYFISH DESIGN NOTES
 JELLYFISH TREATMENT CAPACITY IS A FUNCTION OF THE CARTRIDGE SELECTION AND THE NUMBER OF CARTRIDGES. THE STANDARD MANHOLE STYLE IS SHOWN. 87" MANHOLE JELLYFISH PEAK TREATMENT CAPACITY IS 1.16 CFS, AND MAXIMUM BYPASS CAPACITY IS 4.00 CFS. IF THE SITE CONDITIONS EXCEED TOTAL CAPACITY, AN UPSTREAM BYPASS STRUCTURE IS REQUIRED.

CARTRIDGE SELECTION

	54"	40"	27"	15"
CARTRIDGE DEPTH	54"	40"	27"	15"
OUTLET INVERT TO STRUCTURE INVERT (A)	7'-5"	6'-3"	5'-2"	4'-2"
FLOW RATE HIGH-FLOW/ DRAINDOWN (cfs) (per cart)	0.18 / 0.09	0.13 / 0.065	0.09 / 0.045	0.05 / 0.025
MAX. CARTRIDGE HIGH-FLOW/ DRAINDOWN	8 / 1	8 / 1	8 / 1	8 / 1
MAX. BYPASS (cfs)	4.00	4.00	4.00	4.00
MAX. TREATMENT (cfs)	1.16	0.87	0.58	0.32
MAX. TREATMENT AND BYPASS (cfs) (TOTAL CAPACITY)	5.16	4.87	4.58	4.32



SITE SPECIFIC DATA REQUIREMENTS

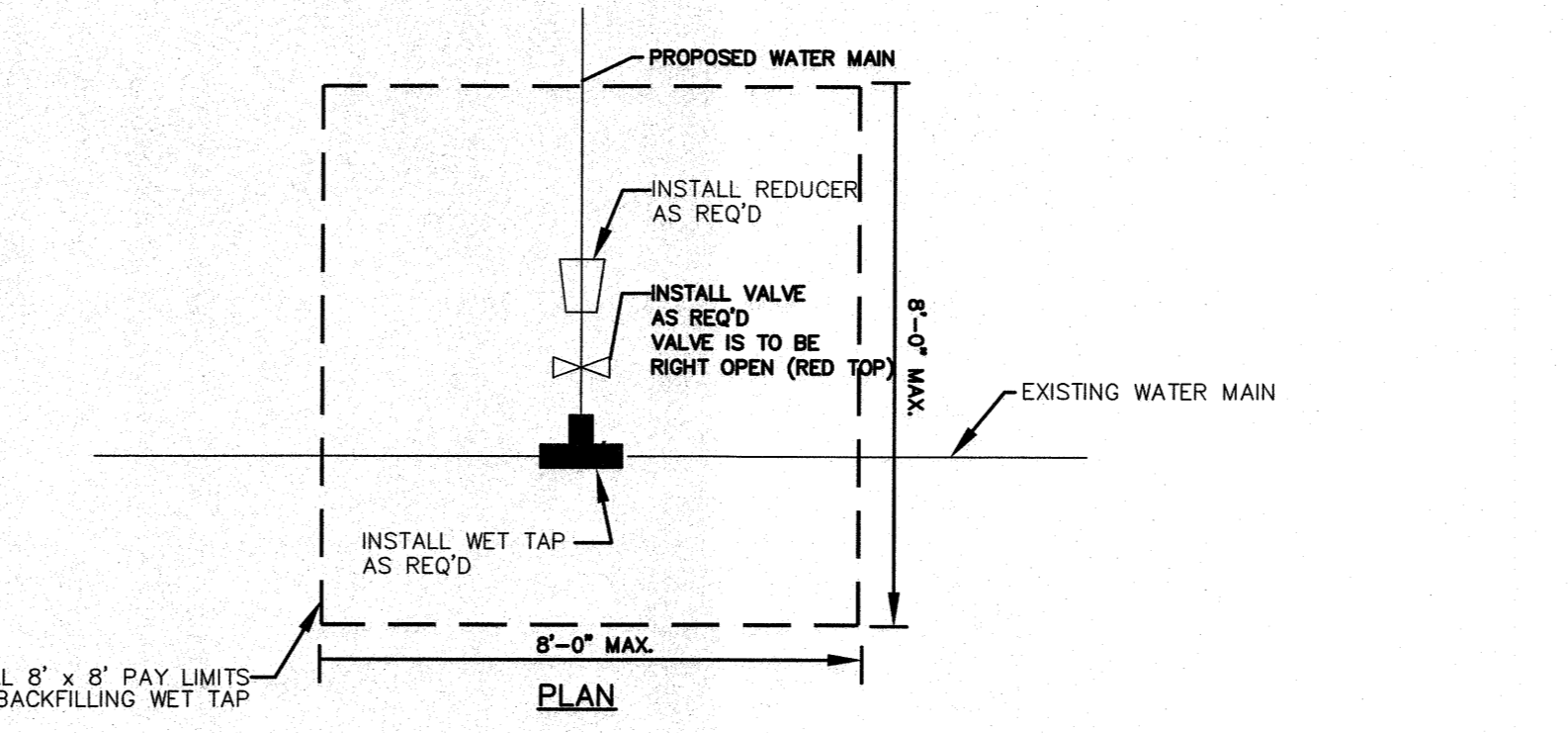
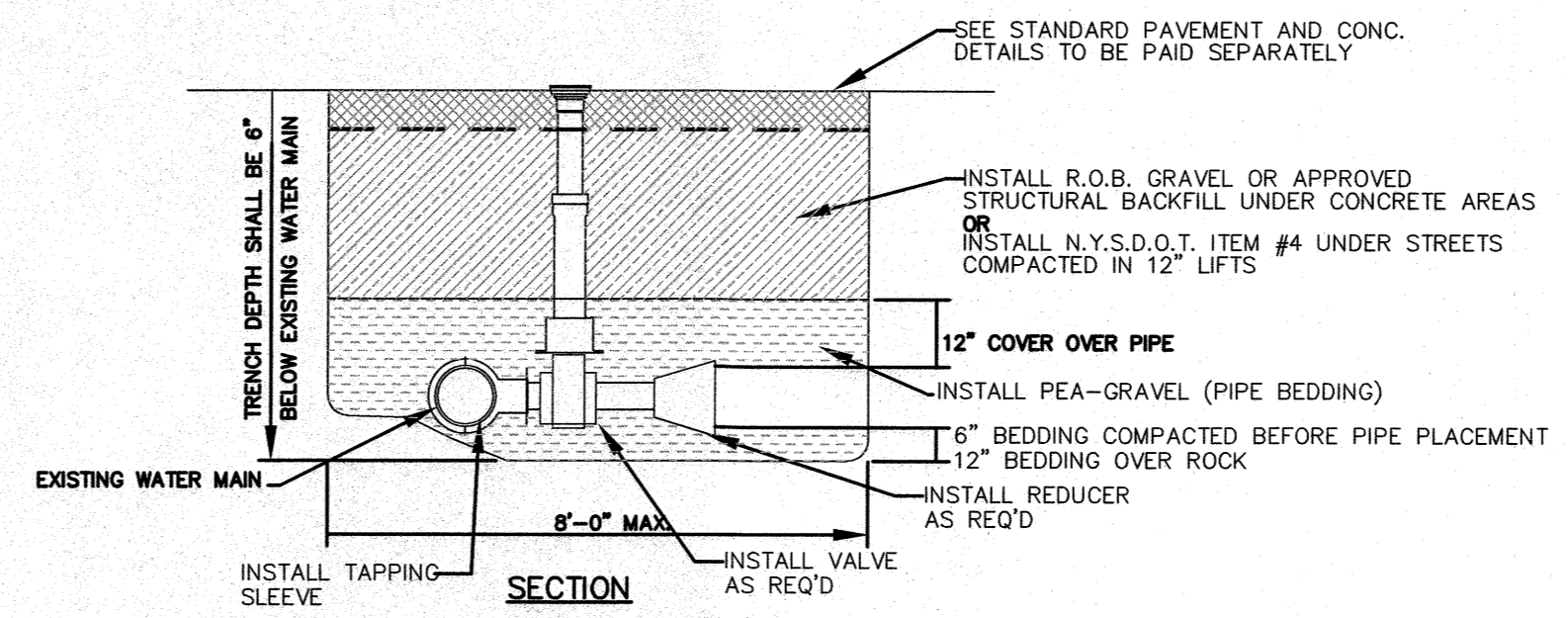
STRUCTURE ID	*
WATER QUALITY FLOW RATE (cfs)	*
BYPASS FLOW RATE (cfs)	*
PEAK FLOW RATE (cfs)	*
RETURN PERIOD OF PEAK FLOW (YRS)	*
# OF CARTRIDGES REQUIRED (#F / DD)	1"
CARTRIDGE SIZE	*
PIPE DATA: I.E. MAT'L DIA. SLOPE % HGL	
INLET #1	*
INLET #2	*
OUTLET	*
SEE GENERAL NOTES 6-10 FOR INLET AND OUTLET HYDRAULIC AND SIZING REQUIREMENTS.	
RIM ELEVATION	*
ANTI-FLOTATION BALLAST	WIDTH HEIGHT
NOTES/SPECIAL REQUIREMENTS:	
* PER ENGINEER OF RECORD	

GENERAL NOTES
 1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
 2. FOR SITE SPECIFIC DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS REPRESENTATIVE. www.conteches.com
 3. JELLYFISH WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
 4. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT.
 5. STRUCTURE SHALL MEET ASHTO H250 OR PER APPROVING JURISDICTION REQUIREMENTS, WHICHEVER IS MORE STRINGENT, ASSUMING EARTH COVER OF 0 - 3' AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET ASHTO M356 LOAD RATING AND BE CAST WITH THE CONTECH LOGO.
 6. STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C-478 AND ASHTO LOAD FACTOR DESIGN METHOD.
 7. INLET HGL NOT TO EXCEED 6" BELOW THE TOP OF THE M.A.W. DURING THE PEAK DESIGN STORM, OR 10-YEAR STORM (WHICHEVER IS GREATER).
 8. INLET PIPE INVERT ELEVATION VARIES FROM 0" TO 6" MAXIMUM ABOVE THE OUTLET PIPE INVERT.
 9. OUTLET PIPE INVERT IS EQUAL TO THE CARTRIDGE DECK ELEVATION.
 10. THE OUTLET PIPE DIAMETER FOR NEW INSTALLATIONS IS TO BE ONE PIPE SIZE LARGER THAN THE INLET PIPE AT EQUAL OR GREATER SLOPE.
 11. THE DIFFERENCE IN THE INLET AND OUTLET PIPE ELEVATIONS FOR RETROFIT INSTALLATIONS TO EXISTING STORM DRAIN PIPES SHALL BE EQUAL TO THE SLOPE OVER THE DIAMETER OF THE MANHOLE, NOT THE EXCEED 6" IN VERTICAL DIFFERENTIAL BETWEEN INLET AND OUTLET PIPES.
 12. NO PRODUCT SUBSTITUTIONS SHALL BE ACCEPTED UNLESS SUBMITTED 10 DAYS PRIOR TO PROJECT BID DATE, OR AS DIRECTED BY THE ENGINEER OF RECORD.

INSTALLATION NOTES
 A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
 B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE STRUCTURE (LIFTING CLUTCHES PROVIDED).
 C. CONTRACTOR WILL INSTALL AND LEVEL THE STRUCTURE, SEALING THE JOINTS, LINE ENTRY AND EXIT POINTS (NON-SHRINK GROUT WITH APPROVED WATERSTOP OR FLEXIBLE BOOT).
 D. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO PROTECT CARTRIDGES FROM CONSTRUCTION-RELATED EROSION RUNOFF.
 E. CARTRIDGE INSTALLATION, BY CONTECH, SHALL OCCUR ONLY AFTER SITE HAS BEEN STABILIZED AND THE JELLYFISH UNIT IS CLEAN AND FREE OF DEBRIS. CONTACT CONTECH TO COORDINATE CARTRIDGE INSTALLATION WITH SITE STABILIZATION AT (866) 740-3318.

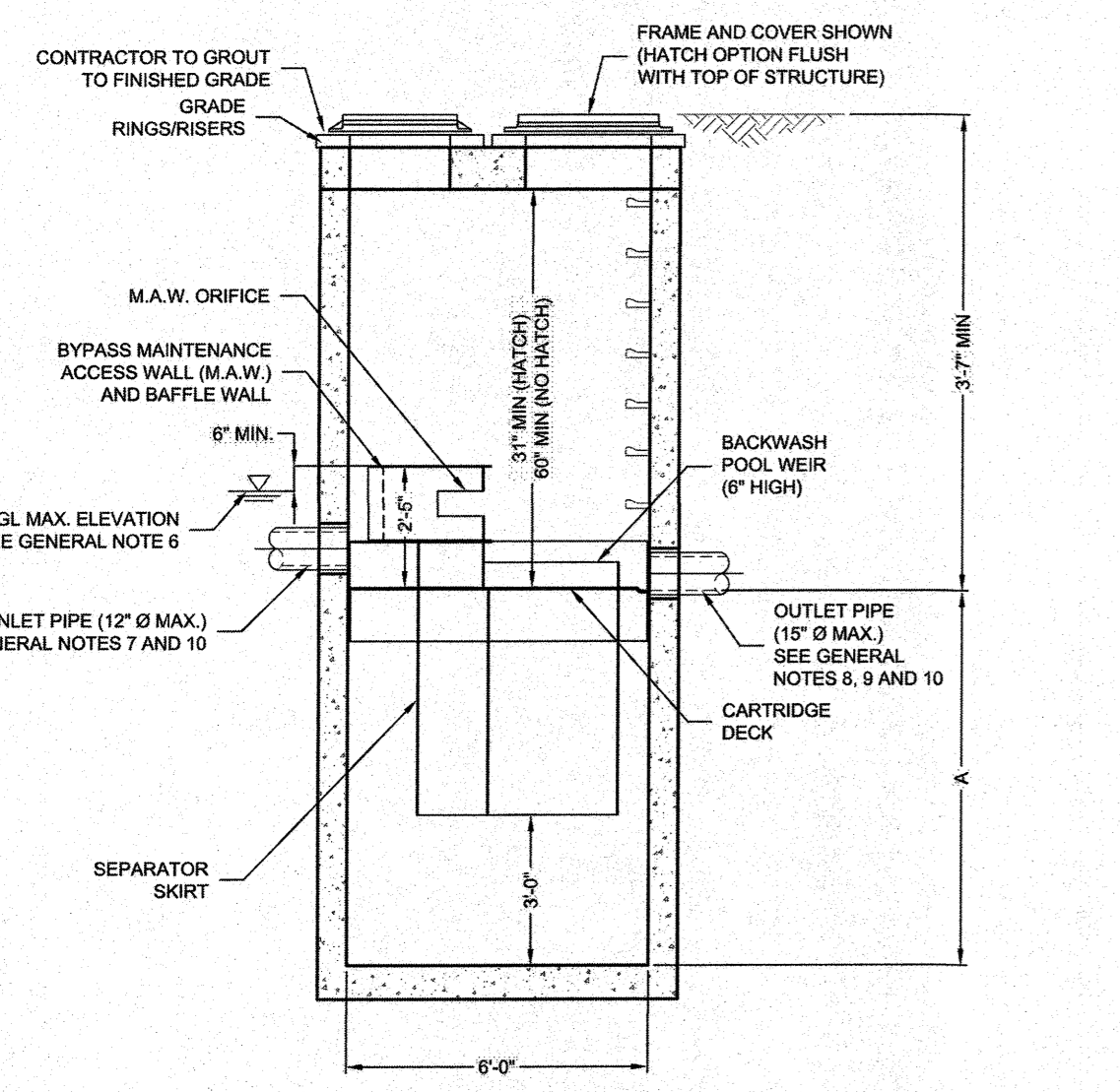
CONTECH ENGINEERED SOLUTIONS LLC
 www.conteches.com
 9025 Centre Pointe Dr., Suite 400, West Chester, OH 45399
 800-338-1122 513-645-7000 513-645-7993 FAX

JELLYFISH JF6
 STANDARD DETAIL
 ONLINE CONFIGURATION



NOTE: ALL BACKFILL TO BE PLACED IN 1' LIFTS AND COMPACTED TO 95% OF MODIFIED PROCTOR (ASTM 1557)

TAPPING SLEEVE & VALVE



CONTECH ENGINEERED SOLUTIONS LLC
 www.conteches.com
 9025 Centre Pointe Dr., Suite 400, West Chester, OH 45399
 800-338-1122 513-645-7000 513-645-7993 FAX

Jellyfish Filter

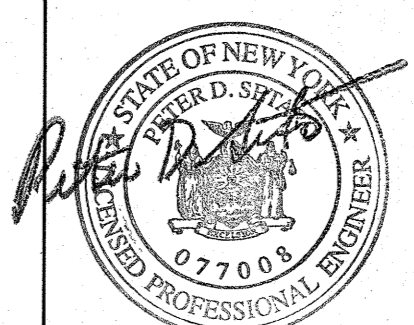
REV No.	DESCRIPTION	DATE	BY

MOBILE GAS STATION STORE
 TOWN OF YORKTOWN WESTCHESTER COUNTY, NY

DETAILS

MORRIS ASSOCIATES, ENGINEERING & SURVEYING CONSULTANTS, PLLC
 9 Elks Lane, Poughkeepsie, New York 12601
 Phone No. (845) 464-3411 Fax No. (845) 473-1962
 64 Green Street - Suite 1, Hudson, New York 12534
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DATE	SCALE	DESIGNED BY	FILE No.	DRAWING No.
11/30/2017	AS SHOWN	AL	214098	3 OF 3



SC-310 STANDARD CROSS SECTION

REV: 11/18/14

DATE: 11/18/14

DRAWN: JLM

CHECKED: JLM

PROJECT #:

DESCRIPTION:

STORMTECH

4640 FROBEN BLVD
 FARMINGDALE, NY 11735
 1-800-733-7473

1 SHEET
 OF 1