

GENERAL NOTES

- THIS DRAWING SHALL NOT BE USED FOR CONSTRUCTION WITHOUT THE PROFESSIONAL ENGINEER'S RAISED SEAL AND SIGNATURE AND THE WORDS "ISSUED FOR CONSTRUCTION".
- PROJECT SITE IS KNOWN AND DESIGNATED AS BLOCK 3902, LOTS 35 & 36, AS SHOWN ON THE CURRENT TAX MAP OF THE CITY OF JERSEY CITY, HUDSON COUNTY, NEW JERSEY, CONTAINING 5,000 SQUARE FEET (0.115 ACRES).
- BOUNDARY AND TOPOGRAPHIC SURVEY INFORMATION SHOWN HERE IS BASED ON A SURVEY ENTITLED "TOPOGRAPHIC SURVEY, 415,417 PALISADE AVENUE, BLOCK 3902 LOTS 36 AND 35, CITY OF JERSEY CITY, HUDSON COUNTY, NEW JERSEY", PREPARED BY PAX SURVEYING & ENVIRONMENTAL CONSULTANTS, LLC; DATED 1/22/2020.
- ALL PROPOSED CURBS, AND SIDEWALKS SHALL EXTEND TO THE NEAREST EXPANSION JOINT BEYOND THE SIDE PROPERTY LINES.
- SEE ARCHITECTURAL PLANS FOR FLOOR PLANS, DETAILED BUILDING AND FOUNDATION DIMENSIONS AND BUILDING ELEVATIONS.
- THE CONTRACTOR SHALL NOTIFY THE JERSEY CITY DIVISION OF ENGINEERING IN WRITING AT LEAST 72 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION WORK.
- ALL IMPROVEMENTS MUST COMPLY WITH THE REQUIREMENTS OF CITY OF JERSEY CITY DIVISION OF ENGINEERING CONSTRUCTION GUIDELINES.
- ALL REGULATORY SIGNAGE SHALL CONFORM TO THE FEDERAL HIGHWAY ADMINISTRATION, "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREET AND HIGHWAYS" (MUTCD), LATEST EDITION.
- ALL TRAFFIC SIGNS MUST BE RE-INSTALLED UPON COMPLETION OF THE CONSTRUCTION.
- ALL PLANTS MATERIALS SHALL BE FREE OF DISEASE AND INSECTS, AND SHALL CONFORM TO THE AMERICAN STANDARDS FOR NURSERY STOCK (ASNS) OF THE AMERICAN NURSERY AND LANDSCAPE ASSOCIATION FOR THE QUANTITY AND INSTALLATION OF THAT PLANT.
- ALL STREET TREES SHALL BE PROPERLY MAINTAINED. THE PROVISIONS OF JERSEY CITY ORDINANCE SECTION 345-75 SHALL APPLY. ALL STREET TREES SHALL BE GUARANTEED FOR ONE YEAR FROM THE TIME OF PLANTING. DURING THE GUARANTEE PERIOD TIME, THE DEVELOPER OR OWNER IS RESPONSIBLE FOR REGULAR MAINTENANCE OF THE TREE, INCLUDING WEED REMOVAL, REPLACING MISSING SOIL OR MULCH AND MINOR PRUNING. DURING THE GUARANTEE PERIOD, TREES SHALL BE WATERED AT LEAST ONCE EVERY TWO WEEKS FROM MAY THROUGH OCTOBER. IF A TREE DIES DURING THE GUARANTEE PERIOD, IT SHALL BE REPLACED IN THE NEXT PLANTING SEASON.

LEGEND & PLANTING SCHEDULE:

KEY	QTY.	BOTANICAL NAME	COMMON NAME	PLANTED SIZE	MATURE SIZE (10-YEAR)	ROOT TYPE	SPACING	NOTES
P.S. (Symbol)	2	PRUNUS SARGENTII 'COLUMNARIS' OR 'RANCHO'	COLUMNAR OR RANCHO SARGENT CHERRY	2½" - 3½" CAL.	20' HIGH	B&B	SEE PLAN	SINGLE STEM

LEGEND

ITEM	EXISTING	PROPOSED
PROPERTY LINE	---	---
CURB LINE	---	---
DEPRESSED CURB	DC	DC
EDGE OF PAVEMENT	---	---
CONCRETE SIDEWALK	---	---
CONCRETE DRIVEWAY/PAD	---	---
PAINT LINE	---	---
FENCE	---	---

DESIGN:

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PROJECT:

NEW CONSTRUCTION
415-417 PALISADE AVENUE
JERSEY CITY, NJ 07307
BLOCK:3902 LOT:35,36

CLIENT:

CLIENT NAME

CONSULTANTS:

320 LENOX AVENUE
POMPTON LAKES, NJ 07442
TEL: 973-897-7968
FAX: 973-970-2010
NJ CERT. OF AUTHORIZATION #24GA28246600

MARK CHISVETTE
PROFESSIONAL ENGINEER
NEW JERSEY LIC. #28164

ZONING SUBMISSION:

PLANNING SUBMISSION: 25 FEBRUARY 2020

PERMIT SUBMISSION:

PROGRESS:

REVISIONS	
NO.	DESCRIPTION

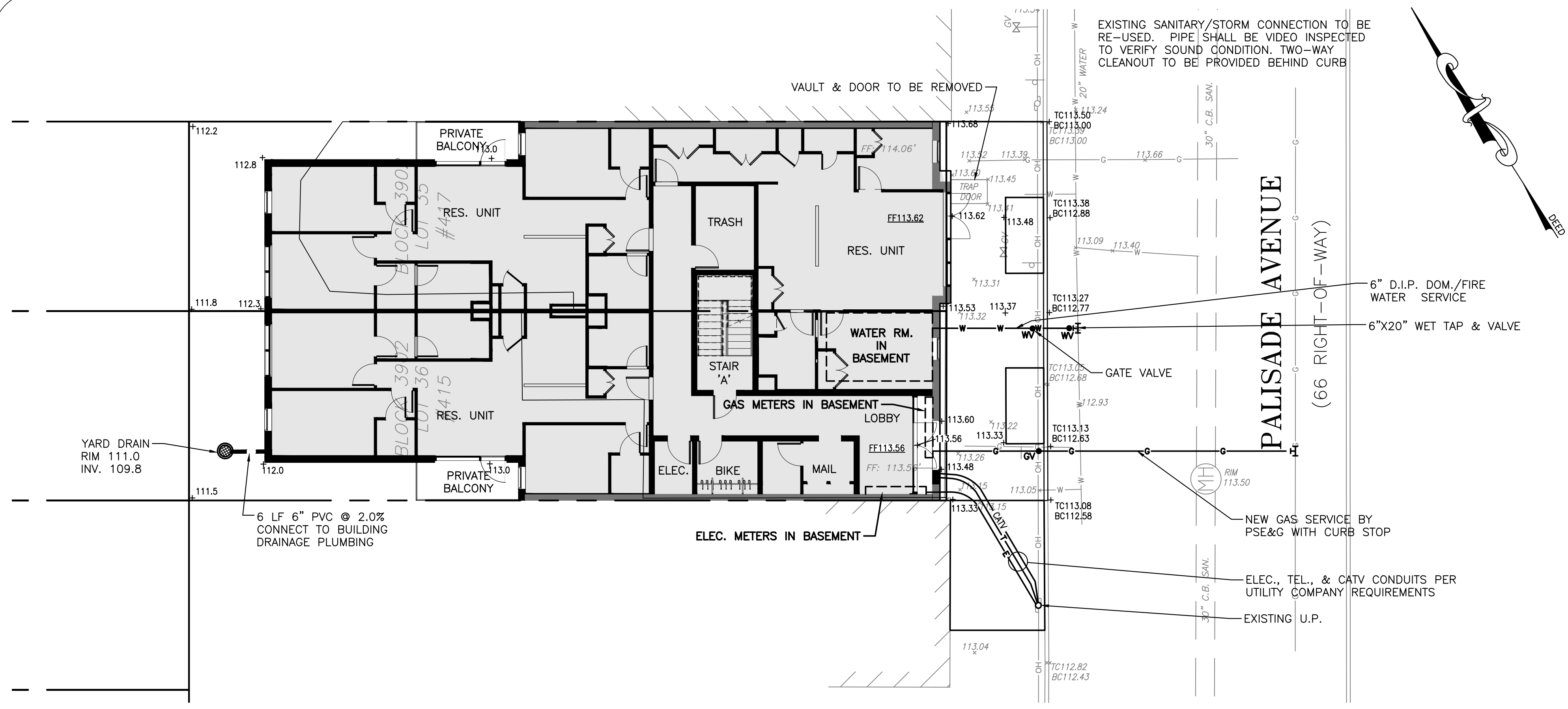
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PROJECT NUMBER: **DRAWN BY:**
CM

DESIGNED BY: **CHECKED BY:**
MC MC

SHEET TITLE:
SITE PLAN

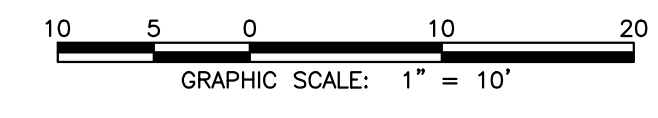
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C-001



EXISTING SANITARY/STORM CONNECTION TO BE RE-USED. PIPE SHALL BE VIDEO INSPECTED TO VERIFY SOUND CONDITION. TWO-WAY CLEANOUT TO BE PROVIDED BEHIND CURB

GRADING & UTILITY NOTES

- THIS DRAWING SHALL NOT BE USED FOR CONSTRUCTION WITHOUT THE PROFESSIONAL ENGINEER'S SIGNATURE AND RAISED SEAL AND THE WORDS "ISSUED FOR CONSTRUCTION".
- BOUNDARY AND TOPOGRAPHIC SURVEY INFORMATION SHOWN HERE IS BASED ON A SURVEY ENTITLED "TOPOGRAPHIC SURVEY, 415,417 PALISADE AVENUE, BLOCK 3902 LOTS 36 AND 35, CITY OF JERSEY CITY, HUDSON COUNTY, NEW JERSEY"; PREPARED BY PAX SURVEYING & ENVIRONMENTAL CONSULTANTS, LLC; DATED 1/22/2020.
- LOCATIONS OF KNOWN UTILITY STRUCTURES AND FACILITIES SHOWN ON THE PLANS ARE APPROXIMATE. THE ACCURACY AND COMPLETENESS OF LOCATIONS OF UTILITY STRUCTURES AND FACILITIES THAT MAY BE ENCOUNTERED WITHIN AND ADJACENT TO THE LIMITS OF THE WORK IS NOT GUARANTEED BY CHISVETTE ENGINEERING. THE CONTRACTOR IS ADVISED TO VERIFY IN THE FIELD ALL LOCATIONS AND ELEVATIONS OF THESE UTILITIES AT THE ONSET OF CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OR ARCHITECT OF ANY DISCREPANCIES WHICH MAY AFFECT THE PROJECT.
- THE CONTRACTOR SHALL CALL NEW JERSEY ONE CALL AT 811 OR 800-272-1000 AT LEAST THREE FULL BUSINESS DAYS (NOT COUNTING WEEKENDS OR HOLIDAYS) PRIOR BEGINNING WORK.
- ALL ELEVATIONS SHOWN ARE BASED ON AN THE NAVD88 DATUM.
- ALL WALKWAYS TO HAVE A MAXIMUM CROSS SLOPE OF 2% AND A MAXIMUM RUNNING SLOPE OF 5% UNLESS OTHERWISE NOTED.
- POSITIVE DRAINAGE TO BE MAINTAINED FROM ALL BUILDINGS IN ACCORDANCE WITH APPLICABLE REGULATIONS AND BUILDING CODE.
- EXACT LOCATIONS AND SIZES OF ALL UTILITY CONNECTIONS SHALL BE CONFIRMED BY THE PROJECT ARCHITECT OR M.E.P. ENGINEER PRIOR TO CONSTRUCTION.
- STORM AND SANITARY SEWER PIPE SHALL BE MATERIAL INDICATED:
 - RCP PIPE SHALL BE CLASS III, WALL "B" PER ASTM C76 OR C507, UNLESS OTHERWISE INDICATED.
 - HDPE PIPE SHALL BE SMOOTH INTERIOR, DOUBLE WALL PIPE MEETING ASTM F2306 AND AASHTO M294, TYPE "S". PIPE JOINTS SHALL BE WATER-TIGHT IN ACCORDANCE WITH ASTM D3212. HDPE PIPE SHALL NOT BE USED WITHIN CITY R.O.W.
 - PVC PIPE SHALL BE GASKETED PIPE, SDR35 MEETING ASTM D3034 OR PS46 MEETING ASTM F679, UNLESS OTHERWISE NOTED.
 - DUCTILE IRON FOR STORM AND SANITARY USE SHALL MEET THE REQUIREMENTS OF ASTM A716 OR ASTM A746.
- SEWERS CONVEYING SANITARY FLOW SHALL BE SEPARATED FROM WATER LINES BY A DISTANCE OF AT LEAST 10 FEET HORIZONTALLY. IF SUCH LATERAL SEPARATION IS NOT POSSIBLE, THE PIPES SHALL BE IN SEPARATE TRENCHES WITH THE SEWER AT LEAST 18 INCHES BELOW THE BOTTOM OF THE WATER MAIN. WHERE APPROPRIATE SEPARATION FROM A WATER MAIN IS NOT POSSIBLE, THE SEWER SHALL BE ENCASED IN CONCRETE, OR CONSTRUCTED OF DUCTILE IRON PIPE USING MECHANICAL OR SLIP-ON JOINTS FOR A DISTANCE OF AT LEAST 10 FEET ON EITHER SIDE OF THE CROSSING. IN ADDITION, ONE FULL LENGTH OF SEWER PIPE SHOULD BE LOCATED SO BOTH JOINTS WILL BE AS FAR FROM THE WATER LINE AS POSSIBLE.
- WATER SERVICE PIPE 3-INCHES AND LARGER SHALL BE CEMENT LINED, CORROSION PROTECTION COATED, DUCTILE IRON PIPE WITH MECHANICAL JOINTS AND PRESSURE CLASS 350 PSI. DUCTILE IRON WATER SERVICE PIPE SHALL BE LAID CONTINUOUSLY RODDED WITH THRUST BLOCKS AT ALL BENDS.
- ALL ELECTRICAL, TELEPHONE, CATV AND ADDITIONAL SERVICES TO THE PROPOSED BUILDING SHALL BE INSTALLED BY THE RESPECTIVE UTILITY COMPANIES.



LEGEND

ITEM	EXISTING	PROPOSED
SPOT ELEVATIONS	x 16.55	+ 16.55
TOP OF CURB ELEV.	+TC16.55	+TC16.55
BOTTOM OF CURB ELEV.	+BC16.55	+BC16.55
DEPRESSED CURB ELEV.	+DC16.55	+DC16.55
FLUSH CURB ELEV.	+FC16.55	+FC16.55
CONTOURS	--- 16 ---	--- 16 ---
MANHOLES	○	●
INLETS	□ CURB INLET	■ CURB INLET
STORM PIPE	====	====
RESET CASTING	○	■
SAN. PIPE	--- SAN ---	--- S ---
UTILITY LINES	W= WATER E=ELEC. G=GAS T=TEL. OH=OVERHEAD	W= WATER E=ELEC. G=GAS T=TEL. CATV=CABLE OH=OVERHEAD
VALVES	○ WY ○ OV	● WY ● OV
CLEANOUTS	○ C.O.	● C.O.
UTILITY POLES	○ P.O.	● P.O.
CURB	--- DC DROP CURB	--- DC DROP CURB
PROPERTY LINE	---	---

USE	RATE	EXISTING USAGE		PROPOSED USAGE	
		UNITS	FLOW	UNITS	FLOW
1-BEDROOM	150 GPD/UNIT	-	- GPD	1	150 GPD
2-BEDROOM	225 GPD/UNIT	-	- GPD	0	0 GPD
3-BEDROOM	300 GPD/UNIT	-	- GPD	8	2,400 GPD
TOTAL		-	- GPD	TOTAL	2,550 GPD

USE	RATE	EXISTING USAGE		PROPOSED USAGE	
		UNITS	FLOW	UNITS	FLOW
1-BEDROOM	120 GPD/UNIT	-	- GPD	1	210 GPD
2-BEDROOM	175 GPD/UNIT	-	- GPD	0	0 GPD
3-BEDROOM	270 GPD/UNIT	-	- GPD	8	2,160 GPD
TOTAL		-	- GPD	TOTAL	2,370 GPD

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JERSEY CITY, NJ 07307

BLOCK:3902 LOT:35,36

CLIENT:

CLIENT NAME

CONSULTANTS:

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ZONING SUBMISSION:

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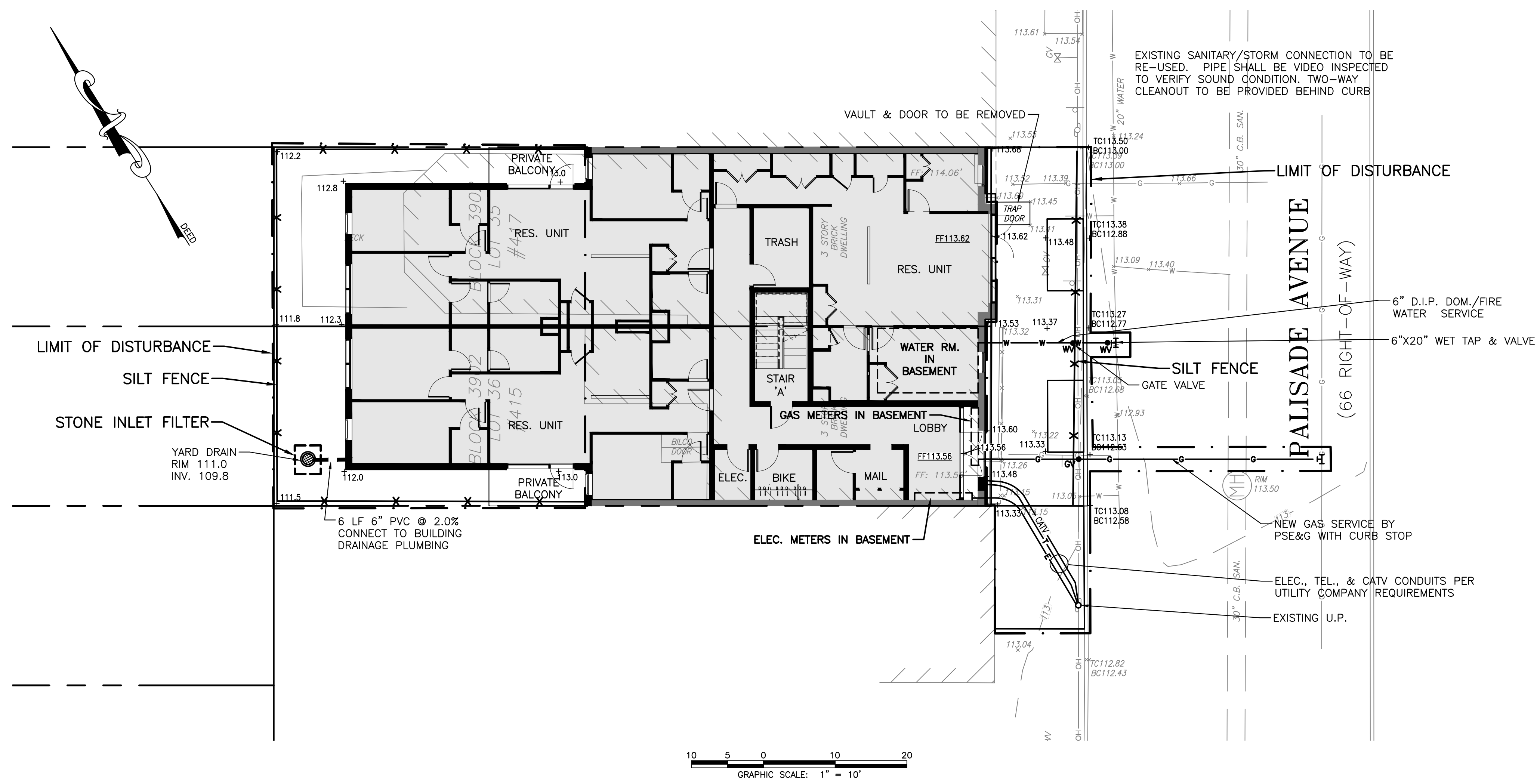
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CM

DESIGNED BY: **CHECKED BY:**
MC MC

SHEET TITLE:
GRADING, DRAINAGE & UTILITIES

SHEET NO.: **PAGE NO.:**
C-002

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**HUDSON-ESSEX-PASSAIC SOIL CONSERVATION DISTRICT (HEPSCD)
SOIL EROSION AND SEDIMENT CONTROL GENERAL NOTES**

- ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES ON THIS PLAN WILL BE INSTALLED IN ACCORDANCE WITH THE "NEW JERSEY STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL", 7TH EDITION LAST REVISED DECEMBER 2017. THESE MEASURES WILL BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCE OR IN THEIR PROPER SEQUENCE AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
- ALL SOIL TO BE EXPOSED OR STOCKPILED FOR A PERIOD OF GREATER THAN 14 DAYS, AND NOT UNDER ACTIVE CONSTRUCTION, WILL BE TEMPORARILY SEEDED AND HAY MULCHED OR OTHERWISE PROVIDED WITH VEGETATIVE COVER. THIS TEMPORARY COVER SHALL BE MAINTAINED UNTIL SUCH TIME WHEREBY PERMANENT RESTABILIZATION IS ESTABLISHED.
- SEEDING DATES:** THE FOLLOWING SEEDING DATES ARE RECOMMENDED TO BEST ESTABLISH PERMANENT VEGETATIVE COVER WITHIN MOST LOCATIONS IN THE HEPSCD: **SPRING - 3/1 TO 5/15 AND FALL - 8/15 TO 10/1.**
- SEDIMENT FENCES ARE TO BE PROPERLY TRENCHED AND MAINTAINED UNTIL PERMANENT VEGETATIVE COVER IS ESTABLISHED.
- ALL STORM DRAINAGE INLETS SHALL BE PROTECTED BY ONE OF THE PRACTICES ACCEPTED IN THE STANDARDS, AND PROTECTION SHALL REMAIN UNTIL PERMANENT STABILIZATION HAS BEEN ESTABLISHED. STORM DRAINAGE OUTLET POINTS SHALL BE PROTECTED AS REQUIRED BEFORE THEY BECOME FUNCTIONAL.
- MULCH MATERIALS SHALL BE UN-ROTTED SMALL GRAIN STRAW APPLIED AT THE RATE OF 70 TO 90 POUNDS PER 1,000 SQUARE FEET AND ANCHORED WITH A MULCH ANCHORING TOOL, LIQUID MULCH BINDERS, OR NETTING TIE DOWN. OTHER SUITABLE MATERIALS MAY BE USED IF APPROVED BY THE SOIL CONSERVATION DISTRICT.
- ALL EROSION CONTROL DEVICES SHALL BE PERIODICALLY INSPECTED, MAINTAINED AND CORRECTED BY THE CONTRACTOR. ANY DAMAGE INCURRED BY EROSION SHALL BE RECTIFIED IMMEDIATELY.
- THE HUDSON-ESSEX-PASSAIC SOIL CONSERVATION DISTRICT WILL BE NOTIFIED IN WRITING AT LEAST 48 HOURS PRIOR TO ANY SOIL DISTURBING ACTIVITIES. FAX: (862) 333-4507 OR EMAIL: INFORMATION@HEPSCD.ORG.
- THE APPLICANT MUST OBTAIN A DISTRICT ISSUED REPORT-OF-COMPLIANCE PRIOR TO APPLYING FOR THE CERTIFICATE OF OCCUPANCY OR TEMPORARY CERTIFICATE OF OCCUPANCY FROM THE RESPECTIVE MUNICIPALITY, NJ-DCA OR ANY OTHER CONTROLLING AGENCY. CONTACT THE DISTRICT AT 862-333-4505 TO REQUEST A FINAL INSPECTION, GIVING ADVANCED NOTICE UPON COMPLETION OF THE RESTABILIZATION MEASURES. A PERFORMANCE DEPOSIT MAY BE POSTED WITH THE DISTRICT WHEN WINTER WEATHER OR SNOW COVER PROHIBITS THE PROPER APPLICATION OF SEED, MULCH, FERTILIZER OR HYDRO-SEED.
- PAVED ROADWAYS MUST BE KEPT CLEAN AT ALL TIMES. DO NOT UTILIZE A FIRE OR GARDEN HOSE TO CLEAN ROADS UNLESS THE RUNOFF IS DIRECTED TO A PROPERLY DESIGNED AND FUNCTIONING SEDIMENT BASIN. WATER PUMPED OUT OF THE EXCAVATED AREAS CONTAINS SEDIMENTS THAT MUST BE REMOVED PRIOR TO DISCHARGING TO RECEIVING BODIES OF WATER USING REMOVABLE PUMPING STATIONS, SUMP PITS, PORTABLE SEDIMENTATION TANKS AND/OR SILT CONTROL BAGS.
- ALL SURFACES HAVING LAWN OR LANDSCAPING AS FINAL COVER ARE TO BE PROVIDED TOPSOIL PRIOR TO RE-SEEDING, SODDING OR PLANTING. A DEPTH OF 5.0 INCHES, FIRMED IN PLACE, IS REQUIRED, AS PER THE STANDARDS FOR TOPSOILING AND LAND GRADING, LAST REVISED DECEMBER 2017.
- ALL PLAN REVISIONS MUST BE SUBMITTED TO THE DISTRICT FOR PROPER REVIEW AND APPROVAL.
- A CRUSHED STONE WHEEL CLEANING TRACKING-PAD IS TO BE INSTALLED AT ALL SITE EXITS USING 1"-2 1/2" CRUSHED ANGULAR STONE (ASTM 2 OR 3) TO A MINIMUM LENGTH OF 50 FEET AND MINIMUM DEPTH OF 6". ALL DRIVEWAYS MUST BE PROVIDED WITH CRUSHED STONE UNTIL PAVING IS COMPLETE.
- STEEP SLOPES INCURRING DISTURBANCE MAY REQUIRE ADDITIONAL STABILIZATION MEASURES. THESE "SPECIAL" MEASURES SHALL BE DESIGNED BY THE APPLICANT'S ENGINEER AND BE APPROVED BY THE SOIL CONSERVATION DISTRICT.
- THE HUDSON-ESSEX-PASSAIC SOIL CONSERVATION DISTRICT SHALL BE NOTIFIED IN WRITING FOR THE SALE OF ANY PORTION OF THE PROJECT OR FOR THE SALE OF INDIVIDUAL LOTS. NEW OWNERS' INFORMATION SHALL BE PROVIDED. ADDITIONAL MEASURES DEEMED NECESSARY BY DISTRICT OFFICIALS SHALL BE IMPLEMENTED AS CONDITIONS WARRANT.

DUST CONTROL NOTES

- DUST SHALL BE CONTINUALLY CONTROLLED BY WATERING AND/OR APPLICATION OF CALCIUM CHLORIDE.
- WATERING SHALL CONSIST OF SPRINKLING THE SURFACE UNTIL WET.
- CALCIUM CHLORIDE SHALL BE IN THE FORM OF LOOSE, DRY GRANULES OR FLAKES FINE ENOUGH TO FEED THROUGH COMMONLY USED SPREADERS AT A RATE THAT WILL KEEP SURFACE MOIST BUT NOT CAUSE POLLUTION OR PLANT DAMAGE. DO NOT USE ON STEEP SLOPES.

GENERAL NOTES

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PERMANENT SEEDING NOTES

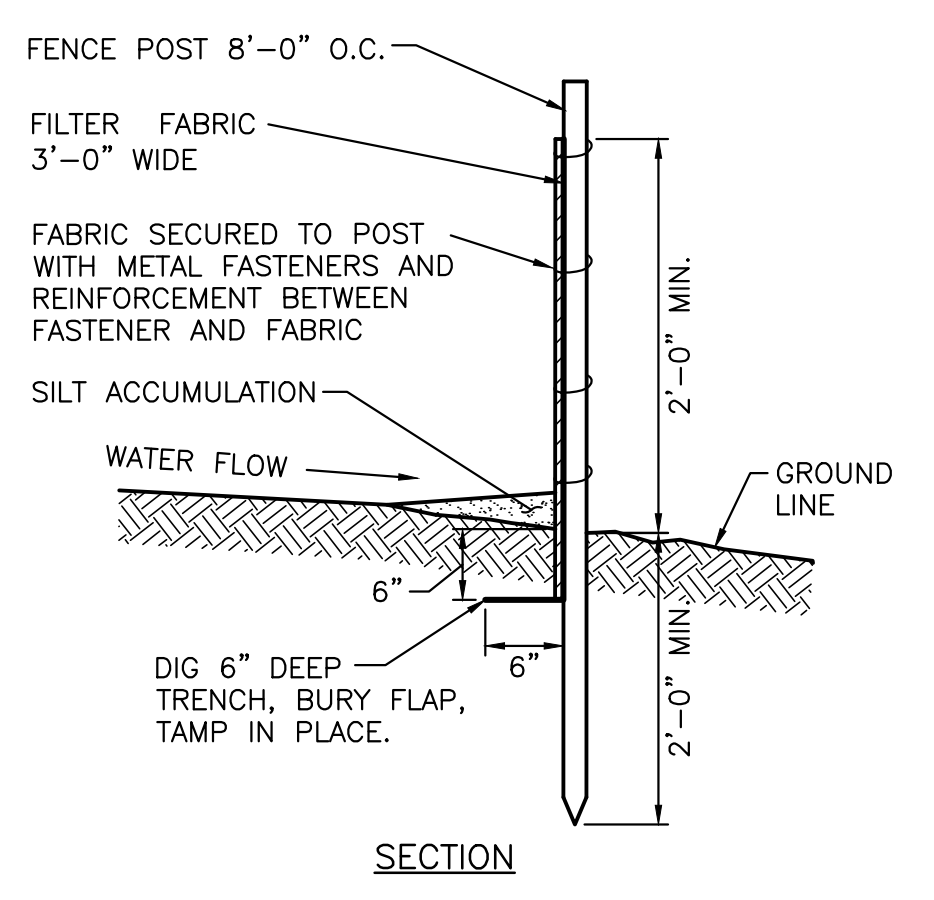
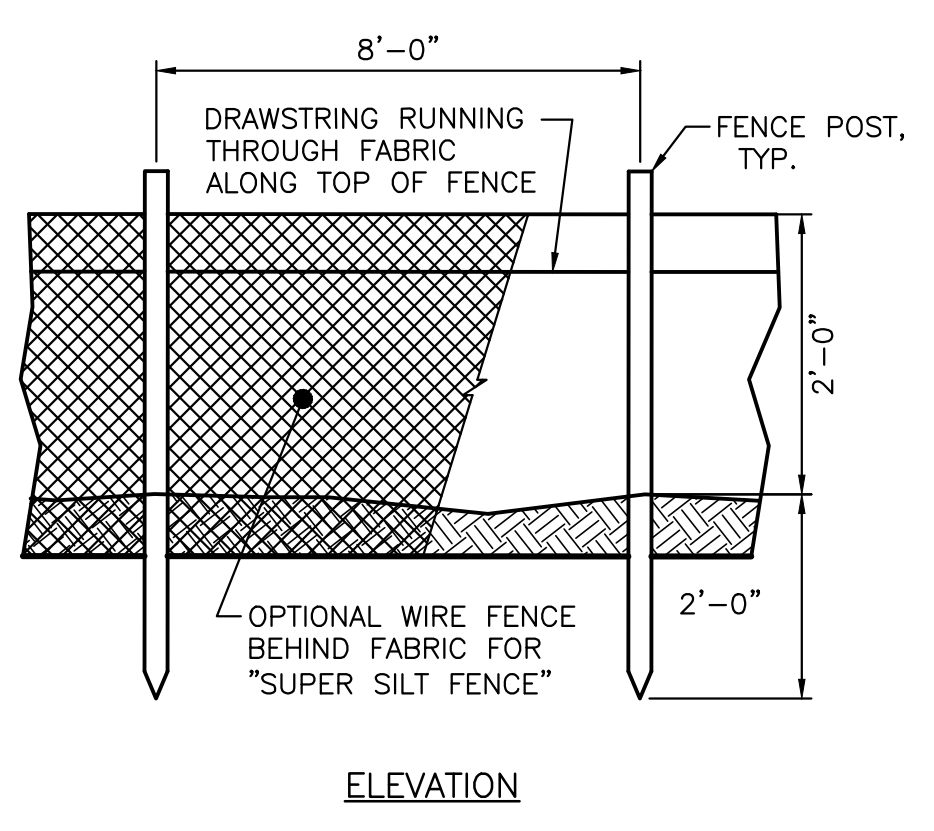
- APPLY A UNIFORM APPLICATION OF TOPSOIL TO A DEPTH OF 5 INCHES. TOPSOIL SHALL BE AMENDED WITH ORGANIC MATTER, AS NEEDED.
- UNIFORMLY APPLY GROUND LIMESTONE AND FERTILIZER TO TOPSOIL WHICH HAS BEEN SPREAD AND FIRMED, ACCORDING TO SOIL TEST RECOMMENDATIONS. FERTILIZER SHALL BE APPLIED AT A RATE OF 500 POUNDS PER ACRE (11 POUNDS PER 1,000 SQUARE FEET) OF 10-10-10 OR EQUIVALENT WITH 50% WATER INSOLUBLE NITROGEN UNLESS A SOIL TEST INDICATES OTHERWISE. IF FERTILIZER IS NOT INCORPORATED, APPLY ONE-HALF THE RATE DESCRIBED ABOVE DURING SEEDBED PREPARATION AND REPEAT ANOTHER ONE-HALF RATE APPLICATION OF THE SAME FERTILIZER WITHIN 3-5 WEEKS AFTER SEEDING. APPLY LIMESTONE AT THE RATE OF 2 TONS PER ACRE (90 POUNDS PER 1,000 SQUARE FEET) UNLESS SOIL TESTING INDICATES OTHERWISE.
- WORK LIME AND FERTILIZER INTO THE TOPSOIL TO A DEPTH OF 4 INCHES WITH A DISC, SPRING-TOOTHED HARROW, OR OTHER SUITABLE EQUIPMENTS. CONTINUE TILLAGE UNTIL A REASONABLE UNIFORM SEEDBED IS PREPARED.
- APPLY SEED UNIFORMLY AT THE RATE SPECIFIED BELOW. UNLESS HYDROSEEDING, SEED SHALL BE INCORPORATED INTO THE SOIL WITHIN 24 HOURS OF SEEDBED PREPARATION TO A DEPTH OF 1/4 TO 1/2 INCH, BY RAKING OR DRAGGING. DEPTH OF SEED PLACEMENT MAY BE 1/4 INCH DEEPER ON COARSE-TEXTURED SOIL.
- | SEED MIXTURE | PLANTING RATE | |
|----------------------------|---------------|------------------|
| | LBS PER ACRE | LBS PER 1,000 SF |
| HARD FESCUE | 130 | 3 |
| CHEWINGS FESCUE | 45 | 1 |
| STRONG CREEPING RED FESCUE | 45 | 1 |
| PERENNIAL RYEGRASS | 10 | 0.25 |

*OPTIMAL SEEDING DATES: 2/1-4/30 AND 8/15-10/30
- MULCHING IS REQUIRED ON ALL SEEDING. MULCH SHALL CONSIST OF UNROTTED SMALL GRAIN STRAW, NOT HAY, TO BE APPLIED AT THE RATE OF 1-1/2 TO 2 TONS PER ACRE (70 TO 90 POUNDS PER 1,000 SQUARE FEET) EXCEPT THAT WHERE A CRIMPER IS USED INSTEAD OF A LIQUID MULCH-BINDER, THE RATE OF APPLICATION IS 3 TONS PER ACRE. MULCH CHOPPER-BLOWERS MUST NOT GRIND THE MULCH. SPREAD MULCH UNIFORMLY BY HAND OR MECHANICALLY SO THAT AT LEAST 85% OF THE SOIL SURFACE IS COVERED. ANCHORING SHALL BE ACCOMPLISHED IMMEDIATELY AFTER PLACEMENT BY EITHER PEG AND TWINE, MULCH NETTINGS, OR LIQUID MULCH-BINDERS.

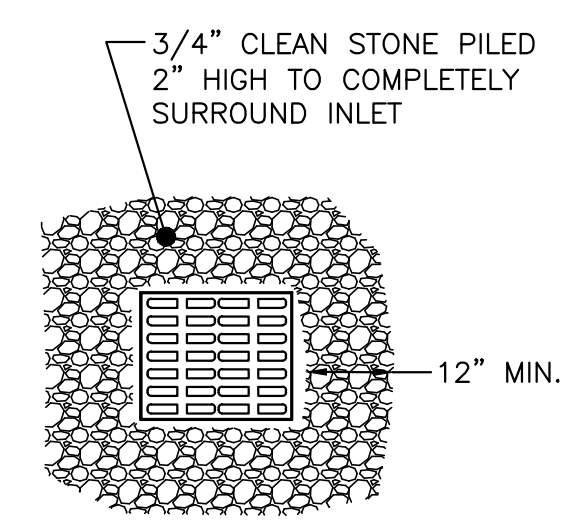
**DISTURBED AREA:
3,300 SF = 0.08 AC.**

SOIL COMPACTION REMEDIATION:
THIS PROJECT DOES NOT REQUIRE SOIL COMPACTION REMEDIATION PER SECTION 19 OF THE N.J. SOIL EROSION & SEDIMENT CONTROL STANDARDS DUE TO THE FOLLOWING:
1. THE PROJECT IS SITUATED IN AN URBAN REDEVELOPMENT AREA, AS THE SITE IS IN THE METROPOLITAN PLANNING AREA (PA-1) AND WAS PREVIOUSLY DEVELOPED.

- CONSTRUCTION SEQUENCE:**
- INSTALL SOIL EROSION AND SEDIMENT CONTROL DEVICES - 2 DAYS
 - DEMOLITION PORTION OF EXISTING BUILDING - 4 WEEKS
 - CLEAR SITE AND REMOVE DEBRIS - 2 WEEKS
 - CONSTRUCT NEW FOUNDATIONS - 4 WEEKS
 - CONSTRUCT UTILITY LINES - 2 WEEKS
 - CONSTRUCT BUILDING STRUCTURE - 12 WEEKS
 - CONSTRUCT CURB & SIDEWALK - 2 WEEKS
 - REMOVE SOIL CONTROL DEVICES - 1 DAY
- DURATION OF PROJECT: 6 MONTHS**

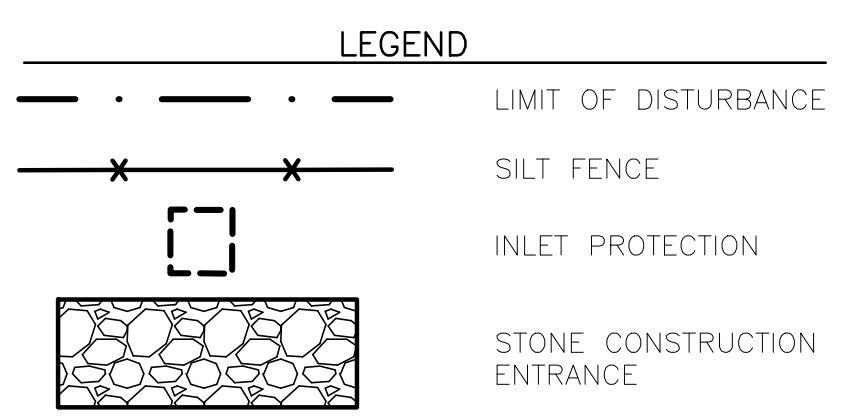


SILT FENCE DETAIL
NOT TO SCALE



- NOTES:**
- PLACE TRAFFIC CONES AT EACH CORNER WHEN IN AREA SUBJECT TO TRAFFIC.
 - INSPECT INLET FREQUENTLY. REPAIR STONE BERM PROMPTLY IF DISRUPTED. REPLACE WITH CLEAN GRAVEL IF CLOGGED.

YARD INLET PROTECTION DETAIL
NOT TO SCALE



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NEW CONSTRUCTION
415-417 PALISADE AVENUE

JERSEY CITY, NJ 07307
BLOCK:3902 LOT:35,36

CLIENT:
CLIENT NAME



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TEL: 973-897-7968
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NJ CERT. OF AUTHORIZATION #24GA28246600

MARK CHISVETTE
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NEW JERSEY LIC. #28164

ZONING SUBMISSION:
PLANNING SUBMISSION: 25 FEBRUARY 2020

REVISIONS		
NO.	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

PROJECT NUMBER: **DRAWN BY:**
MC CM
DESIGNED BY: **CHECKED BY:**
MC MC
SHEET TITLE:
SOIL EROSION & SEDIMENT CONTROL PLAN
SHEET NO.: **PAGE NO.:**

C-003

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JERSEY CITY MUNICIPAL UTILITIES AUTHORITY
REQUIREMENTS FOR FIRE AND DOMESTIC WATER LINE
AND METER INSTALLATIONS
JUNE 28, 2006

- ALL FIRE SERVICE APPLICATIONS AND ALL DOMESTIC SERVICE APPLICATIONS TWO (2) INCHES AND LARGER MUST BE SUBMITTED TO THE JCMUA'S BUREAU OF WATER ENGINEERING FOR APPROVAL. FIVE (5) SETS OF PLANS SHALL BE SUBMITTED FOR APPROVAL. ALL PLANS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT LICENSED TO PRACTICE IN NEW JERSEY.
- SUBMITTED PLANS SHALL BE STANDARD ENGINEERING DRAWINGS, SIZE 24 INCHES X 36 INCHES. INCLUDED SHALL BE A SITE PLAN SHOWING ADJACENT STREETS WITH WATER MAIN, SERVICE, AND DETAILS INDICATED. ALSO INCLUDED SHALL BE A KEY MAP SHOWING GENERAL LOCATION WITHIN THE CITY.
- INDICATED ON THE SUBMITTED PLANS SHALL BE THE SIZE OF TAP, LOCATION OF TAPPING AND CURB GATE VALVES, DETAILED METER SET-UP, AND SIZE OF FACILITY'S METER. ALSO INDICATED ON THE PLANS SHALL BE THE TYPE OF OCCUPANCY OF THE FACILITY RECEIVING THE WATER SERVICE. (I.E. HOSPITAL, WAREHOUSE, APARTMENT BUILDING, ETC.)
- ALL EXISTING WATER SERVICE LINES TO BE ABANDONED SHALL BE CUT AND CAPPED AT THE MAIN, IN ACCORDANCE WITH JCMUA STANDARDS, AND INSPECTED WITHIN 24 HOURS AFTER INSTALLATION OF NEW TAP. THE MAXIMUM OF ONE (1) TAP SHALL BE MADE FOR BOTH DOMESTIC AND FIRE SERVICE PER FACILITY. THE TAP SHALL BE THE MAXIMUM OF ONE (1) SIZE SMALLER THAN THE CITY'S WATER MAIN. NO TAPPING SHALL BE DONE BY ANYONE EXCEPT BY UNITED WATER JERSEY CITY (UWJC) UNLESS SPECIFICALLY APPROVED BY JCMUA.
- ONLY ONE DOMESTIC/FIRE SERVICE IS ALLOWED FOR EACH FACILITY. APPLICANT MAY INSTALL CHECK METERS ON INDIVIDUAL BRANCH CONNECTIONS DOWNSTREAM OF DOMESTIC METER SETUP WHERE THERE IS MORE THAN ONE OWNER/TENANT FOR A FACILITY. HOWEVER, ONLY ONE WATER BILL WILL BE ISSUED FOR THE FACILITY.
- A SOLID DUCTILE IRON-TAPPING SLEEVE SUCH AS MUELLER H-615 TAPPING SLEEVE OR APPROVED EQUAL SHALL BE UTILIZED FOR ALL TAPS 2-INCHES AND LARGER. THE TAPPING SLEEVE SHALL PASS PRESSURE TESTING BASED ON ANWA STANDARDS BEFORE TAP IS MADE.
- FOR ALL SERVICES INCLUDED HEREIN, TWO (2) GATE VALVES ARE REQUIRED THAT ARE TO BE INSTALLED BY THE APPLICANT; A TAPPING VALVE, LOCATED AT THE TAP AND CURB VALVE, LOCATED IN THE SIDEWALK BEFORE THE METER. TAPPING GATES SHALL BE FURNISHED OPENED RIGHT. ALL TAPPING AND CURB VALVES SHALL BE DOUBLE DISC GATE VALVES AND MEET ANWA STANDARDS. THE WET TAP UP TO 12 INCHES SHALL BE PERFORMED BY UWJC.
- FOR TAPS OFF MAINS SIXTEEN (16) INCHES AND LARGER, THAT APPLICANT SHALL FURNISH AND INSTALL AN ADDITIONAL GATE VALVE ADJACENT TO THE TAPPING VALVE. NO TAPS SHALL BE PERMITTED ON MAINS LARGER THAN TWENTY (20) INCHES UNLESS THERE IS NO ALTERNATIVE WATER SOURCE, AND SPECIAL WRITTEN APPROVAL IS ISSUED BY THE JCMUA.
- VALVE BOX PARTS FOR ALL VALVES SHALL BE PROVIDED BY THE APPLICANT. ALL TAPPING GATE VALVES LARGER THAN 2-INCHES AND ALL CURB VALVES / STOPS REGARDLESS OF SIZE REQUIRE A VALVE BOX WITH THE WORD "WATER" CAST IN THE COVER. BURIED CORPORATION VALVES/ STOPS SHALL BE USED AT THE TAP FOR CLASS K COPPER SERVICES 2-INCHES AND SMALLER.
- ALL SERVICE PIPES, SIZES 2-INCHES THROUGH 12-INCHES, SHALL BE PRESSURE CLASS 350-PSI CEMENT-LINED DUCTILE IRON PIPE WITH MECHANICAL JOINTS.
- THE APPLICANT SHALL INSTALL THE METER INSIDE THE BUILDING. IF THE BUILDING LINE IS IN EXCESS OF 75 FT. FROM THE MAIN, THE APPLICANT SHALL PLACE THE METER IN A PIT NEAR THE SIDEWALK OR STREET IN CLOSE PROXIMITY TO THE TAP.
- FOR A REGULAR FIRE SUPPRESSION SYSTEM (COMBINED SERVICE LINE LARGER THAN 2"), A COMBINED REDUCED PRESSURE DETECTOR ASSEMBLY (AMES 5000 SS, AMES 5000 RPDA OR WATTS 909) SHALL BE INSTALLED ON THE MAIN FIRE SERVICE LINE AND A REDUCED PRESSURE BACKFLOW PREVENTER ON THE BYPASS (AMES 4000 SS OR WATTS 909*) (REFER TO FIGURE 1). ON THE LIMITED FIRE SUPPRESSION SYSTEM (COMBINED SERVICE LINE 1.5" OR 2"), A FIRE LINE DETECTOR CHECK WITH A SINGLE CHECK VALVE (AMES 1000 DCV*) SHALL BE INSTALLED ON THE MAIN FIRE LINE AND A REDUCED PRESSURE BACKFLOW PREVENTER (AMES 4000 SS OR WATTS 909*) SHALL BE INSTALLED DOWNSTREAM OF THE BYPASS (REFER TO FIGURE 2). ALL REGULAR FIRE SUPPRESSION SYSTEMS MUST HAVE OS&Y VALVES, HOWEVER, LIMITED FIRE SUPPRESSION SYSTEMS MAY USE BALL VALVES (VICTAULIC SERIES 728 FIRELOCK) INSTEAD OF OS&Y VALVES. THE FIRE UNIT SHALL BE FURNISHED WITH TWO (2) INCH METERED BYPASS. BYPASS METERS SHALL BE JERSEY CITY STANDARD SINGLE DISPLACEMENT SENSUS METERS WITH TOUCHPAD AND RADIO READ CAPABILITIES. THE SAME RADIO MXU UNIT SHALL BE USED FOR A COMBINED DOMESTIC AND FIRE SERVICE.
- FOR DOMESTIC SERVICES, AN APPROVED REDUCED PRESSURE BACKFLOW PREVENTER (AMES 4000 SS OR WATTS 909*) IS REQUIRED WHEN THE JCMUA DETERMINES THAT THERE IS A CROSS-CONNECTION HAZARD AND THE FACILITY PRESENTS A THREAT TO THE CITY'S DISTRIBUTION SYSTEM WATER QUALITY IN ACCORDANCE WITH THE PLUMBING SUBCODE OF THE NEW JERSEY STATE UNIFORM CONSTRUCTION CODE, NJAC 5:23-3.15 AND THE NEW JERSEY SAFE DRINKING WATER ACT NJAC 7:10-10 PHYSICAL CONNECTIONS AND CROSS CONNECTIONS CONTROL BY CONTAINMENT. SOME SERVICES WHICH REQUIRE SUCH DEVICES INCLUDE: A HOSPITAL, SCHOOL, CHEMICAL PLANT, FACTORY AND A FACILITY WITH SEWAGE EJECTORS.
- IF REDUCED PRESSURE BACKFLOW PREVENTER IS NOT REQUIRED ON THE DOMESTIC SERVICE, A CHECK VALVE SHOULD BE INSTALLED DOWNSTREAM OF THE TEST TEE.
- ALL METERS SIZES 2 INCHES THROUGH 6 INCHES SHALL BE SINGLE COMPOUND METERS AND ALL METERS 8 INCHES AND LARGER SHALL BE DUPLEX COMPOUND MANIFOLD METERS.
- ALL METERS SHALL BE ADEQUATELY RESTRAINED WITH METAL BRACKETS FASTENED TO THE FLOOR OR WALL OR OTHER APPROVED MEANS SUCH AS UNFLANGED WHERE INTERNAL PIPE PRESSURE AND FLOW WARRANT SUCH RESTRAINTS. METERS, DETECTOR CHECKS, AND VALVES MAY BE SEATED ON CONCRETE BLOCK AND TAPERED SHIMS TO PROVIDE ADEQUATE SUPPORT. METERS SHALL BE INSTALLED APPROXIMATELY 36" ABOVE FLOOR GRADE.
- ALL METER INSTALLATIONS IN METER PIT OR VAULT SHALL BE PRE-APPROVED BY JCMUA AND HAVE PROPER ACCESS OPENINGS FOR METER READING AND REPLACEMENT.
- EACH COMPOUND METER SHALL HAVE STRAINER INSTALLED ON THE INLET SIDE IMMEDIATELY BEFORE THE METER. ALL STRAINERS MUST BE PURCHASED FROM THE JCMUA OR ITS AUTHORIZED AGENT.
- ALL METERS 2" AND LARGER SHALL BE FURNISHED WITH SENSUS ECR/WP REMOTE TOUCH PAD MODULES AND RADIO MXU UNITS FOR BOTH TYPES OF READING CAPABILITIES.
- REMOTE TOUCH PAD MODULE WIRE SHALL BE CONNECTED TO THE METER REGISTER UTILIZING A GEL CAP FOR WATERTIGHT SEALING OF ALL TERMINAL CONNECTIONS. TOUCH PADS MAY BE WALL MOUNTED OR LID MOUNTED WHERE A METER PIT IS UTILIZED. TOUCH PADS ARE TO BE INSTALLED ON EXTERIOR BUILDING WALL FACING THE STREET AND LOCATED AS CLOSE AS POSSIBLE TO THE STREET. THE RADIO MXU UNIT MUST BE INSTALLED WITH MOUNTING BRACKETS AND LIKEWISE IS TO BE INSTALLED IN PROXIMITY TO STREET.
- ALL INSTALLATIONS OF EQUIPMENT AND COMPONENTS SHALL BE PERFORMED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- ALL METERS INCLUDING TOUCH PAD MODULES AND RADIO MXU UNITS SHALL BE PURCHASED THROUGH THE PERMIT CLERK AT JCMUA OFFICE. APPROVED PLANS MUST BE SUBMITTED TO THE PERMIT CLERK FOR ISSUANCE OF REQUIRED PERMITS.
- AFTER OBTAINING THE REQUIRED PERMITS (STREET OPENING, TAP AND METER) THE APPLICANT SHALL CALL UWJC AT (201) 239-1108 TO SCHEDULE THE TAP. THE EXCAVATION SHALL BE COMPLETED TWENTY-FOUR (24) HOURS PRIOR TO THE SCHEDULED TAP, AND VERIFIED BY JCMUA OR ITS AUTHORIZED AGENT BEFORE THE TAP WILL BE INSTALLED. EXCAVATION SHALL BE CONSTRUCTED IN ACCORDANCE WITH OSHA REQUIREMENTS FOR SAFETY AND SHEETING.
- UPON COMPLETION OF THE INSTALLATION, THE APPLICANT SHALL SUBMIT THREE (3) SETS OF "AS BUILT" PLANS, TO THE JCMUA'S BUREAU OF WATER ENGINEERING. THE JCMUA WILL AUTHORIZE SUPPLY WATER UPON ACCEPTANCE OF THE "AS BUILT" DRAWINGS.

* SPECIFIED MODEL OR APPROVED EQUAL.

JERSEY CITY MUNICIPAL UTILITIES AUTHORITY
WATER DISTRIBUTION SYSTEM STANDARDS
AUGUST 27, 2007

- WATER MAINS SHALL BE PSI CLASS 53, CEMENT LINED, DUCTILE IRON PIPE WITH MECHANICAL JOINTS AND SHALL BE IN CONFORMANCE WITH A.N.S.I. STANDARD A21.5-1976 (A.W.W.A. C151-76). ALL WATER MAINS SHALL BE AT LEAST 8" IN DIAMETER. 10" AND 14" DIAMETER MAINS SHALL NOT BE USED.
- GATE VALVES SHALL BE IN CONFORMANCE WITH A.N.S.I./A.W.W.A. STANDARD C500-80 AND SHALL BE JERSEY CITY STANDARD VALVES, MAH METROPOLITAN MECHANICAL JOINT VALVES AS MANUFACTURED BY DRESSER COMPANY OR EQUAL. VALVES SHALL BE NON-RISING STEM, MECHANICAL JOINT, SHALL BE FURNISHED WITH A (2") SQUARE OPERATING NUT AND SHALL OPEN BY TURNING TO THE RIGHT. GATE VALVES (16") AND OVER SHALL BE FURNISHED WITH BY-PASS. VALVE SHALL BE 100% SOLID HEAT CURED, EPOXY COATED HOLIDAY-FREE IN THE WATERWAY.
- BUTTERFLY VALVES SHALL BE IN CONFORMANCE WITH A.N.S.I./A.W.W.A. STANDARD C504-80. BUTTERFLY VALVES SHALL BE CLASS 1508, MECHANICAL JOINT, WITH RUBBER SEAT MOUNTED ON THE DISC. VALVE SHALL BE FURNISHED WITH A (2") INCH SQUARE OPERATING NUT AND SHALL OPEN BY TURNING TO THE RIGHT. THE VALVE SHALL BE 100% SOLID HEAT CURED, EPOXY COATED HOLIDAY-FREE IN THE WATERWAY. THE USE OF BUTTERFLY VALVES WILL NOT BE PERMITTED IN MAINS (16") AND UNDER.
- VALVE BOXES SHALL BE JERSEY CITY "STANDARD" AS MANUFACTURED BY BINGHAM AND TAYLOR, OR APPROVED EQUAL. BOXES SHALL HAVE A MINIMUM OF 8-1/4 INCH DIAMETER AND SHALL BE AN ADJUSTABLE SCREW TYPE WITH THE BOX EXTENDING FROM THE SURFACE TO (3") INCHES ABOVE THE VALVE BONNET. VALVE BOX SHALL BE CAST IRON WITH A STANDARD COAL TAR FOUNDRY DIP WITH CAST IRON WATER DROP COVER AND THE WORD "WATER" CAST IN COVER. VALVE BOX COVER SHALL BE INSTALLED FLUSH WITH THE EXISTING GRADE ELEVATION.
- CONCRETE FOR VALVE SEATS AND THRUST BLOCKS SHALL HAVE A MINIMUM 28 DAY STRENGTH OF 3000 PSI.
- SELECT GRANULAR BACKFILL MATERIAL SHALL BE SOIL AGGREGATE TYPE 1-6 (POROUS FILL, CLEAN SAND, GRAVEL OR STONE) OBTAINED FROM DRY SOURCES AND SHALL BE FREE FROM STUMPS, BRUSH, WEEDS, ROOTS, RUBBISH, WOOD AND OTHER MATERIAL THAT MAY DECAY. GRADATION SHALL CONFORM TO TABLE 901-2 FOR TYPE 1-6 IN ARTICLE 901.09 OF THE (N.J.D.O.T.) NEW JERSEY DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS. BACKFILL MATERIAL SHALL BE PLACED AND COMPACTED IN TWELVE (12) INCH LIFTS.
- THE RODS SHALL BE THREE QUARTER (3/4) INCH DIAMETER THREADED STEEL BARS. RODS SHALL HAVE A MINIMUM YIELD STRESS OF 36,000 PSI. THRUST BLOCK AND TIE RODS SHALL BE INSTALLED AT ALL BENDS AND FITTINGS.
- COUPLINGS SHALL BE DRESSER STYLE NUMBER 153 FOR PIPE SIZES THROUGH (30") INCH DIAMETER. FOR LARGER DIAMETER PIPE, DRESSER STYLE NUMBER 38 STEEL COUPLINGS SHALL BE USED.
- SHEETING, SHORING AND BRACING SHALL BE CLOSED VERTICAL SHEETING, TONGUE AND GROOVE THAT IS BRACED TO PREVENT THE CAVE-IN OF TRENCHES. ALL LABOR EQUIPMENT, MATERIALS AND METHODS OF CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE UNITED STATES OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION.
- MATERIALS FOR SHEETING SHALL BE TONGUE AND GROOVE WOODEN PLANKS AND TIMBER OR STEEL CONFORMING TO THE REQUIREMENTS OF THE UNITED STATES OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION. TIMBER SHALL BE A MINIMUM OF 3" THICK. SHEETING SHALL BE LEFT IN PLACE. SHORING AND BRACING SHALL BE REMOVED.
- BROKEN STONE FOUNDATION CUSHION SHALL BE PLACED IN THOSE AREAS WHERE THE DIRECTOR, DEPARTMENT OF ENGINEERING HAS DEEMED THE SOIL CONDITION INSUFFICIENT. BROKEN STONE SHALL CONFORM TO ARTICLE 901.03 OF THE STANDARD SPECIFICATIONS AS CURRENTLY AMENDED. THE SIZE OF BROKEN STONE SHALL BE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER FOR SIZE NUMBER 2, 4, 5, OR 6 AS SHOWN IN TABLE 901-1. STANDARD SIZES OF COARSE AGGREGATES OF THE NEW JERSEY DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS.
- FILTER CLOTH SHALL BE PLACED IN THOSE AREAS WHERE THE DIRECTOR, DEPARTMENT OF ENGINEERING, HAS DEEMED THE SOIL CONDITIONS INSUFFICIENT.
- AFTER THE ENGINEER HAS INSPECTED THE COMPLETED INSTALLATION OF VALVES, AND WATER MAIN, AND BEFORE BACKFILLING THE EXCAVATIONS, THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS AND EQUIPMENT REQUIRED TO PRESSURE TEST THE PIPE. THE PIPE SHALL BE PRESSURIZED TO 1.5 X THE WORKING PRESSURE FOR A PERIOD OF TWO (2) HOURS. PRESSURE SHALL NOT VARY MORE THAN 10% FROM THE VALVED SECTION OF PIPE SHALL BE FILLED WITH WATER SLOWLY, AND THE TEST PRESSURE SHALL BE APPLIED BY MEANS OF A PUMP CONNECTED TO THE PIPE IN MANNER SATISFACTORY TO THE ENGINEER. BEFORE APPLYING THE TEST PRESSURE, AIR SHALL BE EXPELLED COMPLETELY FROM THE PIPE BY INSTALLING CORPORATION COCKS AT SUCH POINTS SO THAT THE AIR CAN BE EXPELLED AS THE LINE IS FILLED WITH WATER. IF THE JOINTS LEAK, REPAIRS OR REPLACEMENTS SHALL BE MADE. TESTING SHALL BE IN CONFORMANCE WITH A.W.W.A. STANDARD C500-77.
- THE CONTRACTOR SHALL DISINFECT ALL WATER MAINS IN ACCORDANCE WITH A.W.W.A. STANDARD FOR "DISINFECTING WATER MAINS" DESIGNATION C-601. COMMERCIAL PRODUCTS SUCH AS "PRECLORON" AND "MAXICHLOR" MAY BE USED IN FLAKE OR CRYSTAL FORM, BUT IN NO INSTANCE WILL TABLETS BE PERMITTED TO BE USED IN THE DISINFECTION OF WATER MAINS.
- THE CHLORINE DOSAGE SHALL INITIALLY PRODUCE 50 PPM RESIDUAL TO THE WATER AND MAINTAIN A MINIMUM RESIDUAL OF 25 PPM AFTER 24 HOURS. AFTER SATISFACTORY DISINFECTION OF THE TEST SECTION, THE LINE SHALL BE CONTINUOUSLY FLUSHED UNTIL THE RESULTANT CHLORINE RESIDUAL IS 25 PPM OR THE RESIDUAL OF THE SYSTEM, WHICHEVER IS GREATER. AFTER FINAL FLUSHING AND BEFORE THE WATER MAIN IS PLACED IN SERVICE, SAMPLES SHALL BE COLLECTED FROM EACH END OF THE MAIN AND TESTED FOR BACTERIOLOGICAL QUALITY. IF THE INITIAL DISINFECTION FAILS TO PRODUCE SATISFACTORY SAMPLES, DISINFECTION SHALL BE REPEATED UNTIL SATISFACTORY SAMPLES HAVE BEEN OBTAINED.
- AIR RELEASE VALVES SHALL BE INSTALLED AT THE HIGH POINTS OF THE WATER MAINS.
- ALL WATER MAINS WILL BE AT LEAST 8" IN DIAMETER. TEN (10") AND 14" DIAMETER MAINS SHALL NOT BE USED.
- THRUST BLOCKS AND TIE RODS SHALL BE INSTALLED AT ALL BENDS AND FITTINGS.
- HYDRANTS SHALL BE TWO (2) PIECE "JERSEY CITY STANDARD" HYDRANTS AS MANUFACTURED BY A.P. SMITH OR APPROVED EQUAL. HYDRANT SPACING SHALL BE A MAXIMUM 300 FEET MEASURED CENTER TO CENTER.

- FOR EITHER NEW CONSTRUCTION OR RELOCATION OF THE FOLLOWING SHALL BE REQUIRED:
- HYDRANTS SHALL BE LOCATED NO CLOSER THAN 20 FEET FROM THE POINT OF TANGENCY OR CURVATURE AT INTERSECTIONS.
 - ALL ONE PIECE OR HYDRANTS NOT MANUFACTURED BY A.P. SMITH THAT ARE TO BE RELOCATED SHALL BE REMOVED AND DELIVERED TO JERSEY CITY DIVISION OF WATER DISTRIBUTION. A NEW HYDRANT WILL BE SUPPLIED BY THE CITY FOR INSTALLATION.
 - HYDRANTS SHALL BE NO CLOSER THAN TEN (10') FEET FROM THE EDGE OF A RESIDENTIAL DRIVEWAY OR (20') FEET FROM THE EDGE OF COMMERCIAL DRIVEWAY. IN THE CASE WHERE DRIVEWAYS ARE EXPANDED OR NEWLY CONSTRUCTED, THE OWNER SHALL BE RESPONSIBLE FOR THE RELOCATION OF AN EXISTING HYDRANT IF ABOVE REQUIREMENTS ARE VIOLATED.
 - ALL SINGLE GATED HYDRANTS ON (16") INCH OR LARGER MAINS SHALL REQUIRE A NEW VALVE AT THE BASE OF THE RELOCATED HYDRANT.
 - NEW GATE VALVES AND BOXES ARE REQUIRED AT THE BASE OF RELOCATED HYDRANTS WHEN MORE THAN (10') FEET OF PIPE IS REQUIRED.
- EXISTING WATER SERVICE LINES SHALL BE SHUT-OFF AND CAPPED AT THE MAIN PRIOR TO THE INSTALLATION OF NEW WATER SERVICES. PRIOR TO NEW SERVICE TAP THE JERSEY CITY WATER DEPARTMENT SHALL INSPECT AND CERTIFY THE ABANDONED SERVICES.
 - WATER MAINS TO ABANDON SHALL BE CUT AND PLUGGED WITH REQUIRED FITTINGS, RODS AND CONCRETE AS CLOSE TO THE EXISTING MAIN IN SERVICE AS POSSIBLE.
 - ALL VALVES SHALL BE OPERATED BY JERSEY CITY WATER DEPARTMENT PERSONNEL. THE CONTRACTOR SHALL NOT BE PERMITTED TO OPERATE ANY VALVES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER, IN WRITING, FIVE (5) DAYS IN ADVANCE OF VALVE OPERATING REQUIREMENTS.
 - FAILURE TO COMPLY WITH THE ABOVE REQUIREMENTS WILL RESULT IN THE IMMEDIATE SHUT-DOWN OF THE PROJECT.

GENERAL NOTES

- THIS DRAWING SHALL NOT BE USED FOR CONSTRUCTION WITHOUT THE PROFESSIONAL ENGINEER'S RAISED SEAL AND SIGNATURE AND THE WORDS "ISSUED FOR CONSTRUCTION".

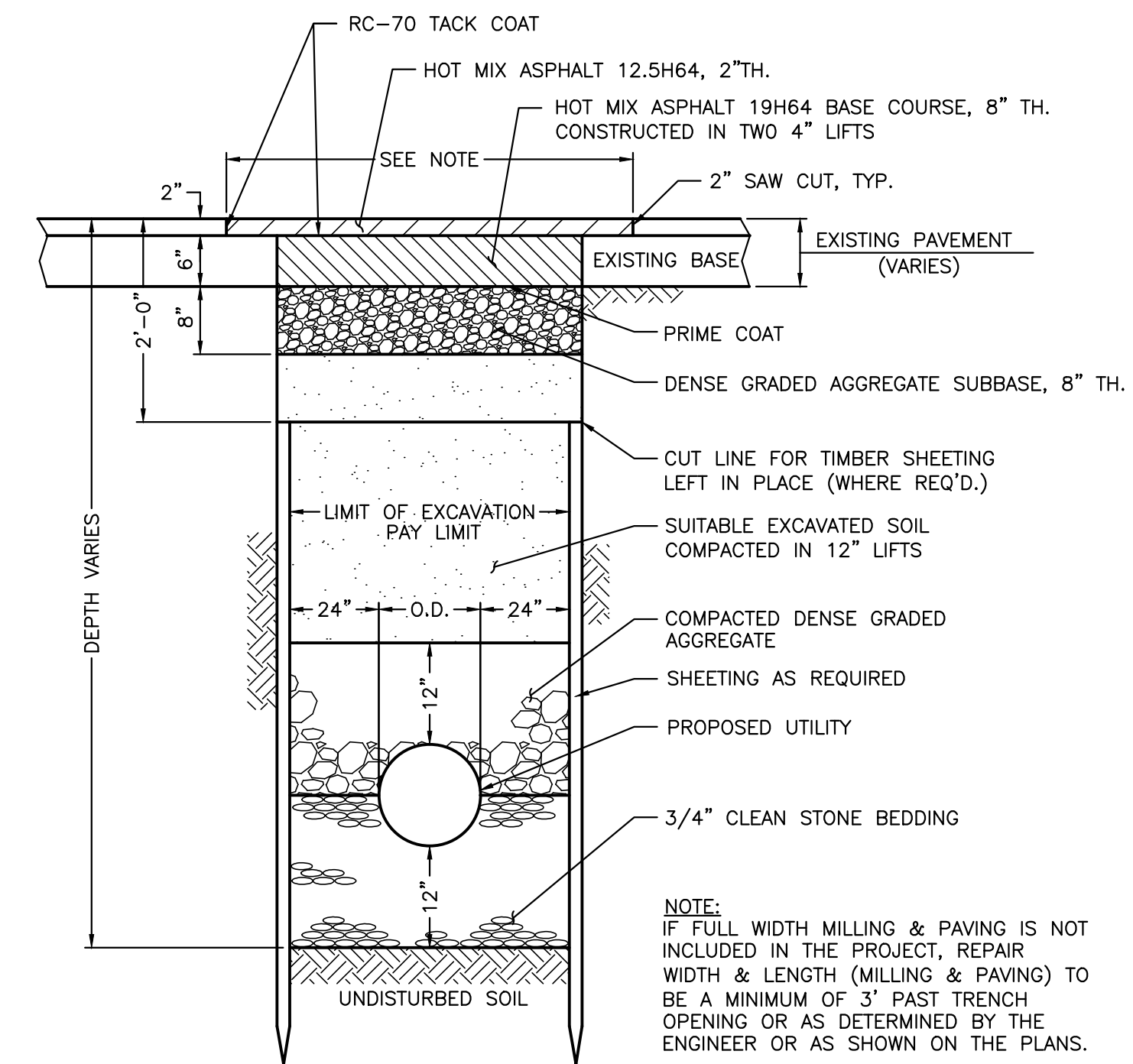
JERSEY CITY MUNICIPAL UTILITIES AUTHORITY
STANDARD REQUIREMENTS FOR NEW SANITARY
AND STORM SEWERS AND SERVICE LATERALS
NOVEMBER 3, 2005

PLANS AND ANY ADDITIONAL INFORMATION AS APPLICABLE MUST BE PRESENTED TO THE JCMUA FOR REVIEW AND COMMENTS FOR ALL PROPOSED SANITARY AND STORM SEWER CONNECTIONS TO THE JCMUA SEWER SYSTEM OR THAT ARE PROPOSED IN JERSEY CITY. REPAIRS TO EXISTING SERVICES DO NOT REQUIRE THE REVIEW AND APPROVAL OF THE JCMUA. ALL PLANS MUST BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT LICENSED TO PRACTICE IN NEW JERSEY AND SUBMITTED TO THE JCMUA'S SEWER ENGINEERING OFFICE, 555 ROUTE 440, JERSEY CITY, NJ 07305 FOR APPROVAL.

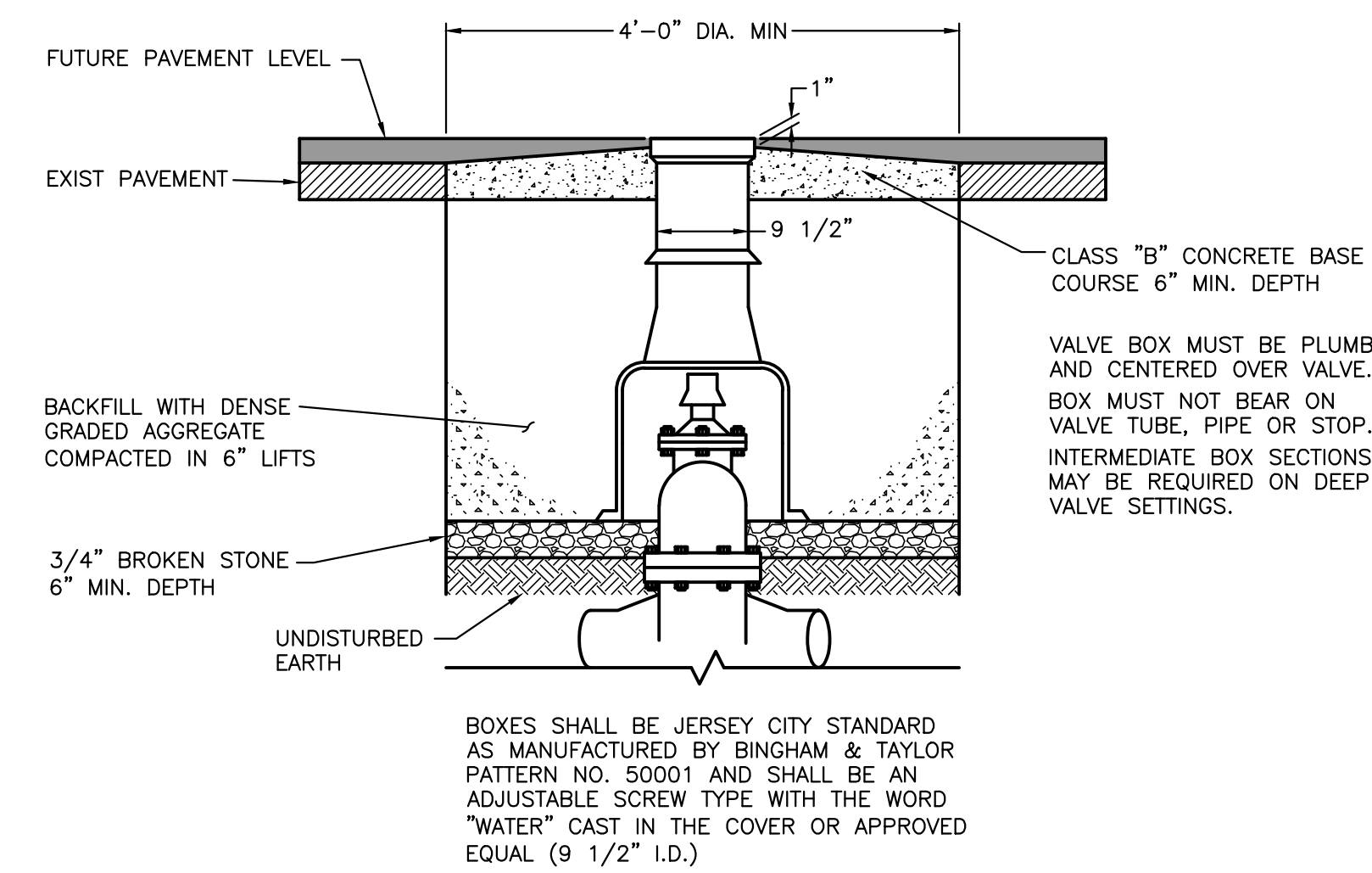
THE FOLLOWING TECHNICAL REQUIREMENTS SHALL BE ADDRESSED IN PREPARATION OF SITE/UTILITY PLANS:

- BEDDING AND BACKFILL MATERIAL SHALL COMPLY WITH THE REQUIREMENTS OF THE NJDOT'S STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION, AND THE DESIGN AND CONSTRUCTION OF URBAN STORM WATER MANAGEMENT SYSTEMS, ASCE MANUALS AND REPORTS OF ENGINEERING PRACTICE NO. 77, 1993, AS APPLICABLE.
- ALL SEWER SERVICE CONNECTIONS 6-INCHES IN SIZE OR SMALLER MUST BE MADE DIRECTLY TO THE SEWER MAIN AND ALL CONNECTIONS 8-INCHES IN SIZE OR LARGER MUST BE MADE TO A MANHOLE. WHERE A CONNECTION TO A MANHOLE IS REQUIRED, MANHOLE BENCH AND CHANNEL MAY REQUIRE MODIFICATION.
- THE JCMUA REQUIRES THAT SEWER SERVICE CONNECTIONS TO BE RE-USED BE TELEVIEWED TO VERIFY THEIR INTEGRITY AND THAT THE PIPE IS FREE FROM ANY DEFECTS.
- EACH BUILDING CONNECTION REQUIRES A CURB CLEANOUT (REFER TO ATTACHED DETAIL DRAWINGS). T-WYE CLEANOUTS, WHICH ENABLE CLEANING IN BOTH DIRECTIONS, SHOULD BE INSTALLED ON BOTH THE STORM AND SANITARY LATERALS.
- PROPOSED SEWER LATERAL CONNECTION TO JCMUA'S SEWER MAIN SHALL BE MADE ABOVE HORIZONTAL CENTERLINE OF PIPE (REFER TO ATTACHED SEWER SERVICE CONNECTION DETAILS).
- THE SIZE, MATERIAL, DEPTH, CONDITION, DIRECTION OF FLOW AND ANY OTHER RELEVANT CONDITIONS OF THE EXISTING JCMUA SEWER TO WHICH YOU PLAN TO CONNECT MUST BE FIELD VERIFIED BY DEVELOPER TO DETERMINE IF SAID CONNECTION IS PHYSICALLY POSSIBLE AND PRACTICAL. IN ADDITION, MANHOLE INVERTS AND RIM ELEVATION MUST BE SHOWN ON PLANS. THIS VERIFICATION IS TO BE INCLUDED ON THE PLANS FOR THE PROJECT.
- CIRCULAR HOLE SAWS WHICH ARE APPROXIMATELY SIZED OR HAND DRILLS MUST BE USED TO MAKE THE OPENINGS IN THE EXISTING SEWER TO RECEIVE THE LATERALS. JACKHAMMERS, SLEDGEHAMMERS AND OTHER UNSUITABLE TOOLS OR MACHINERY THAT MAY DAMAGE THE JCMUA'S SEWER MAIN ARE NOT ALLOWED TO BE USED TO MAKE THE LATERAL OPENINGS. ALL DEBRIS MUST BE REMOVED AND NOT ALLOWED TO FALL INTO PIPE.
- A DETAIL OF ANY PROPOSED MANHOLE OR CATCH BASIN SHOWING ALL DIMENSIONS IN ADDITION TO RIM, GRATE AND INVERT ELEVATIONS OF THE STRUCTURE AND ALL PIPES CONNECTED TO THE STRUCTURE MUST BE SHOWN ON PLANS. REFER TO JCMUA STANDARD DETAIL DRAWINGS FOR MANHOLES AND CATCH BASINS.
- PROPOSED MANHOLES CONSTRUCTED IN THE PUBLIC R.O.W. ON EXISTING OR PROPOSED JCMUA SEWERS SHALL BE FURNISHED WITH CONCENTRIC MANHOLE COVERS AS MANUFACTURED BY CAMPBELL FOUNDRY CO. PATTERN #4428 OR EQUAL WITH OUTSIDE COVER DIAMETER OF 31-3/4 INCHES AND INSIDE COVER DIAMETER OF 24 INCHES.
- THE LETTERS "JCMUA" AND "SEWER" SHALL BE CAST IN THE INSIDE COVER. MANHOLE FRAMES SHALL BE CAMPBELL FOUNDRY CO. PATTERN #4428 (FOR 30-INCH OPENING) OR #1206 (FOR 41-INCH OPENING) OR EQUAL FURNISHED WITH A PATTERN #4428 CONCENTRIC COVER AS SPECIFIED IN THE PRECEDING PARAGRAPH.
- REFER TO JCMUA'S STANDARD DETAIL FOR MANHOLE FRAME AND COVERS.
- STORM INLETS, WHICH ARE CONNECTED DIRECTLY TO JCMUA COMBINED SEWERS, MUST BE FURNISHED WITH A SUMP AND TRAP AS PER JCMUA STANDARD DETAILS.
- THE JCMUA HAS A COMBINED SEWER SYSTEM, WHICH SURCHARGES DURING WET WEATHER PERIODS RESULTING IN POSSIBLE SEWAGE BACK-UPS THROUGH PLUMBING FIXTURES (SINKS, TOILETS, FLOOR DRAINS, ETC.) BELOW STREET LEVEL. THIS POSSIBILITY MUST BE ADDRESSED DURING THE DESIGN/CONSTRUCTION PHASE.
- A DROP MANHOLE CONNECTION SHALL BE USED WHERE THERE IS A DIFFERENCE IN ELEVATION OF TWO (2) FEET OR GREATER BETWEEN THE INVERT OF A SANITARY OR COMBINED INLET PIPE TO MANHOLE AND THE CROWN OF THE OUTLET PIPE FROM MANHOLE. REFER TO ATTACHED JCMUA'S STANDARD DETAIL FOR DROP MANHOLE CONNECTION, WHICH MUST BE SHOWN ON SITE PLAN IF REQUIRED.
- TEST PITS MUST BE PERFORMED AT THE DEVELOPER'S EXPENSE DURING THE DESIGN PHASE OF THE PROJECT TO ENSURE THAT PROPOSED SEWERS AND SEWER SERVICES MAY BE CONSTRUCTED AS PROPOSED WITHOUT CONFLICTING WITH OTHER UNDERGROUND UTILITIES OR STRUCTURES.
- ALL EXISTING SEWER MAINS AND SANITARY LATERALS TO BE ABANDONED MUST BE FILLED WITH CONCRETE SLURRY OR REMOVED FROM THE GROUND. CATCH BASINS AND MANHOLES MUST BE REMOVED FROM THE GROUND. CONNECTIONS MUST BE CUT AND SEALED AT THE MAIN AND PRECAUTIONS MUST BE UNDERTAKEN BY THE CONTRACTOR TO ENSURE CONCRETE AND OTHER MATERIALS DO NOT ENTER THE MAIN AND CREATE OBSTRUCTION(S).
- ALL PROPOSED INLETS/CATCH BASINS MUST BE CONSTRUCTED WITH A BICYCLE SAFE GRATE AND CAMPBELL FOUNDRY CO. TYPE 'N' CURBPIECE WHERE REQUIRED.
- PROPOSED WATER SERVICES REQUIRE THE REVIEW AND APPROVAL OF THE DIVISION OF WATER ENGINEERING.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING PERMITS FOR STREET OPENINGS FROM THE JERSEY CITY BUILDING DEPARTMENT LOCATED AT 30 MONTGOMERY STREET, JERSEY CITY, NJ AND ALL OTHER APPLICABLE PERMITS FROM AGENCIES HAVING JURISDICTION.

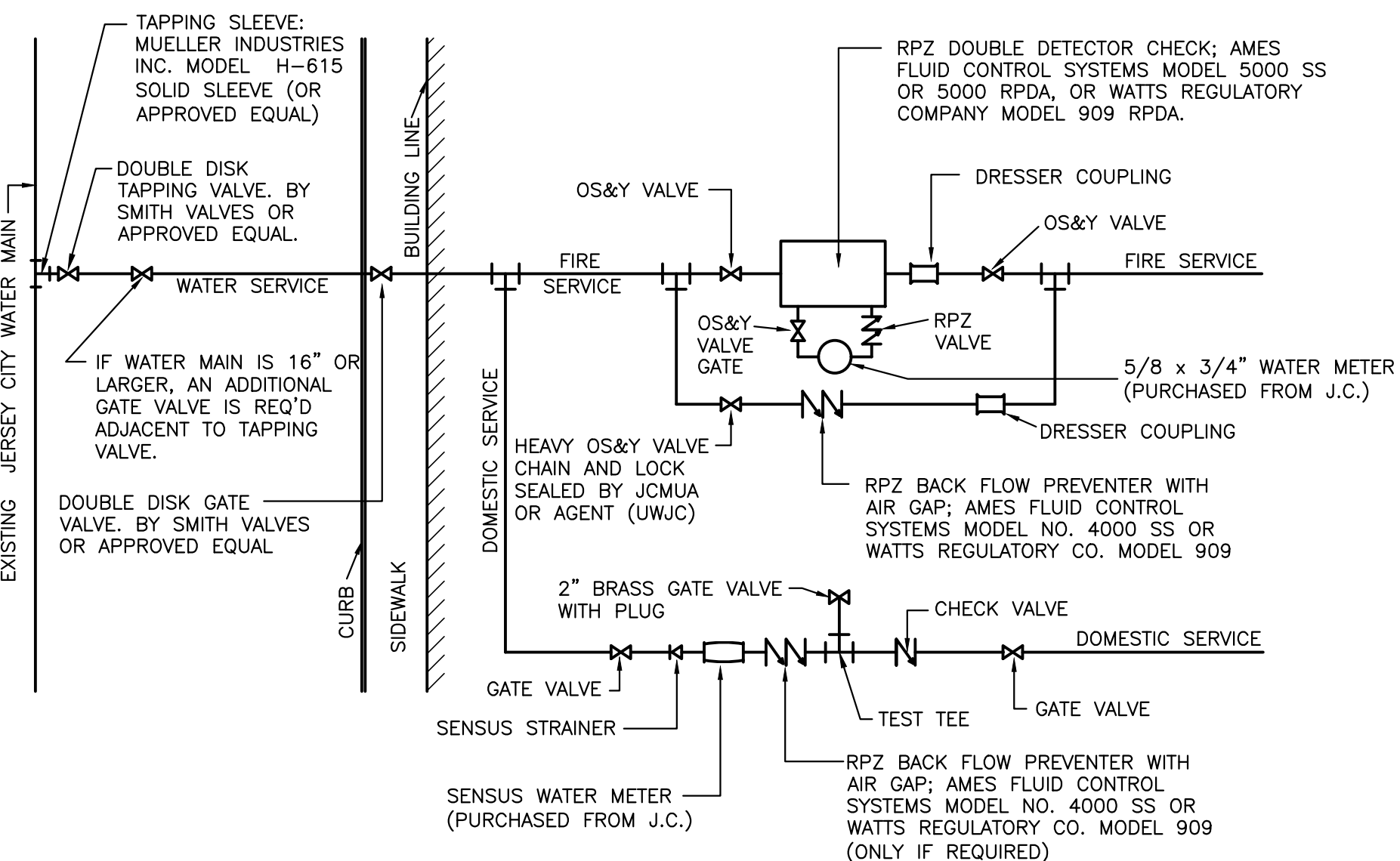
THE SYSTEM DESIGNER IS ALSO RESPONSIBLE FOR COMPLIANCE WITH THE APPLICABLE REGULATIONS OF THE NEW JERSEY ADMINISTRATIVE CODE, NUDEP RULES AND REGULATIONS GOVERNING TREATMENT WORKS APPROVAL PROGRAM, LOCAL CODES AND ORDINANCES, FEDERAL AND STATE REGULATIONS ETC. IN ADDITION TO OTHER REQUIREMENTS THAT MAY BE IMPOSED BY THE JCMUA.



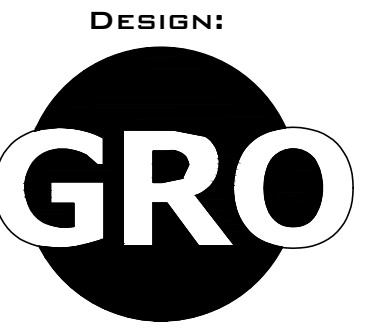
PIPE TRENCH REPAIR
NOT TO SCALE



WATER VALVE BOX
NOT TO SCALE



COMBINED DOMESTIC AND FIRE METERING
SERVICE SCHEMATIC LAYOUT (JCMUA FIGURE 1)
NOT TO SCALE



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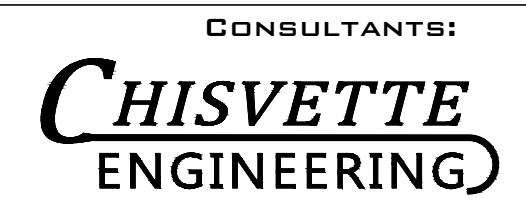
Richard Garber, AIA
NJ License # 21A101735200

Nicole Robertson, AIA
NJ License # 21A101651100

PROJECT:
NEW CONSTRUCTION
415-417 PALISADE AVENUE

JERSEY CITY, NJ 07307
BLOCK 3902 LOT 35,36

CLIENT NAME
CLIENT:



320 LENOX AVENUE
POMPTON LAKES, NJ 07442
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NJ CERT. OF AUTHORIZATION #24GA2846600

MARK CHISVETTE
PROFESSIONAL ENGINEER
NEW JERSEY LIC. #28164

ZONING SUBMISSION:

PLANNING SUBMISSION: 25 FEBRUARY 2020

PERMIT SUBMISSION:

PROGRESS:

REVISIONS		
NO.	DATE	DESCRIPTION

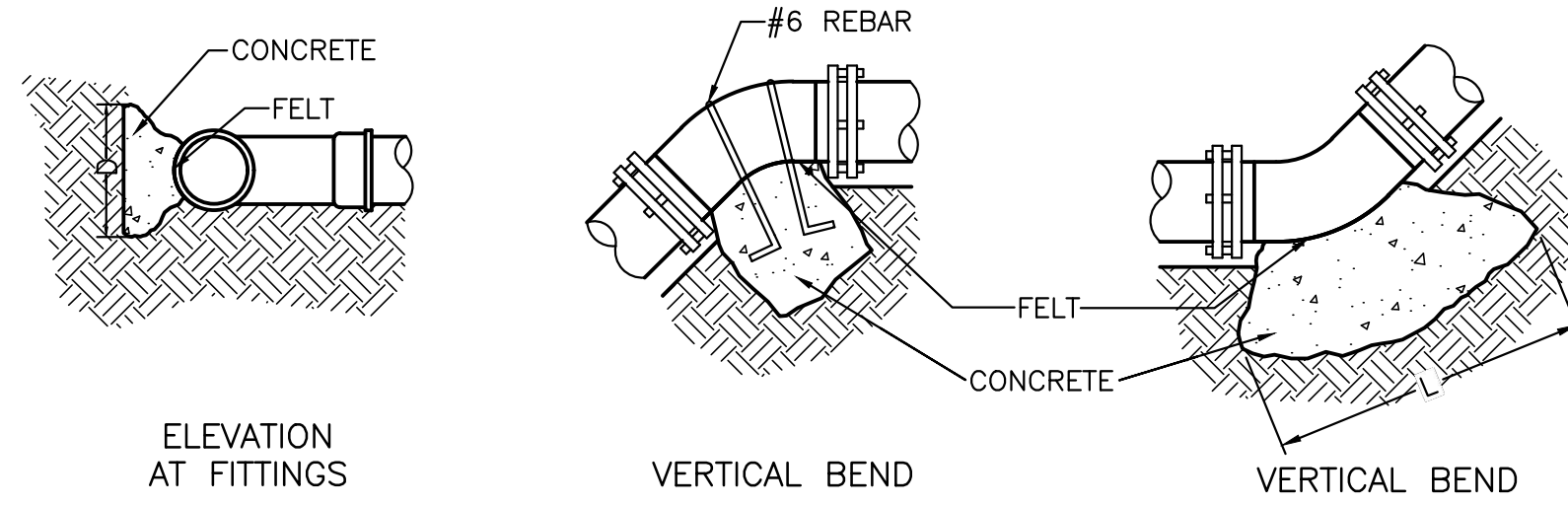
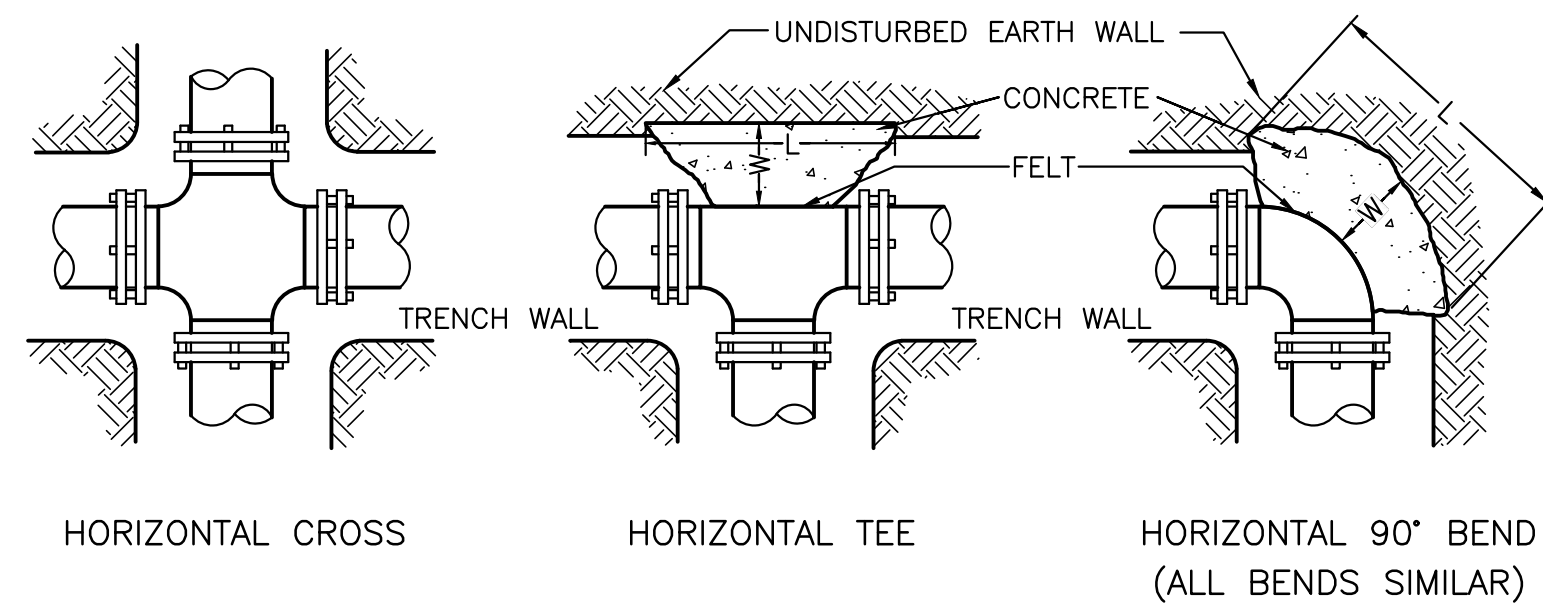
PROJECT NUMBER: DRAWN BY:
MC CM

DESIGNED BY: CHECKED BY:
MC MC

SHEET TITLE:
UTILITY NOTES & DETAILS

SHEET NO.: PAGE NO.:

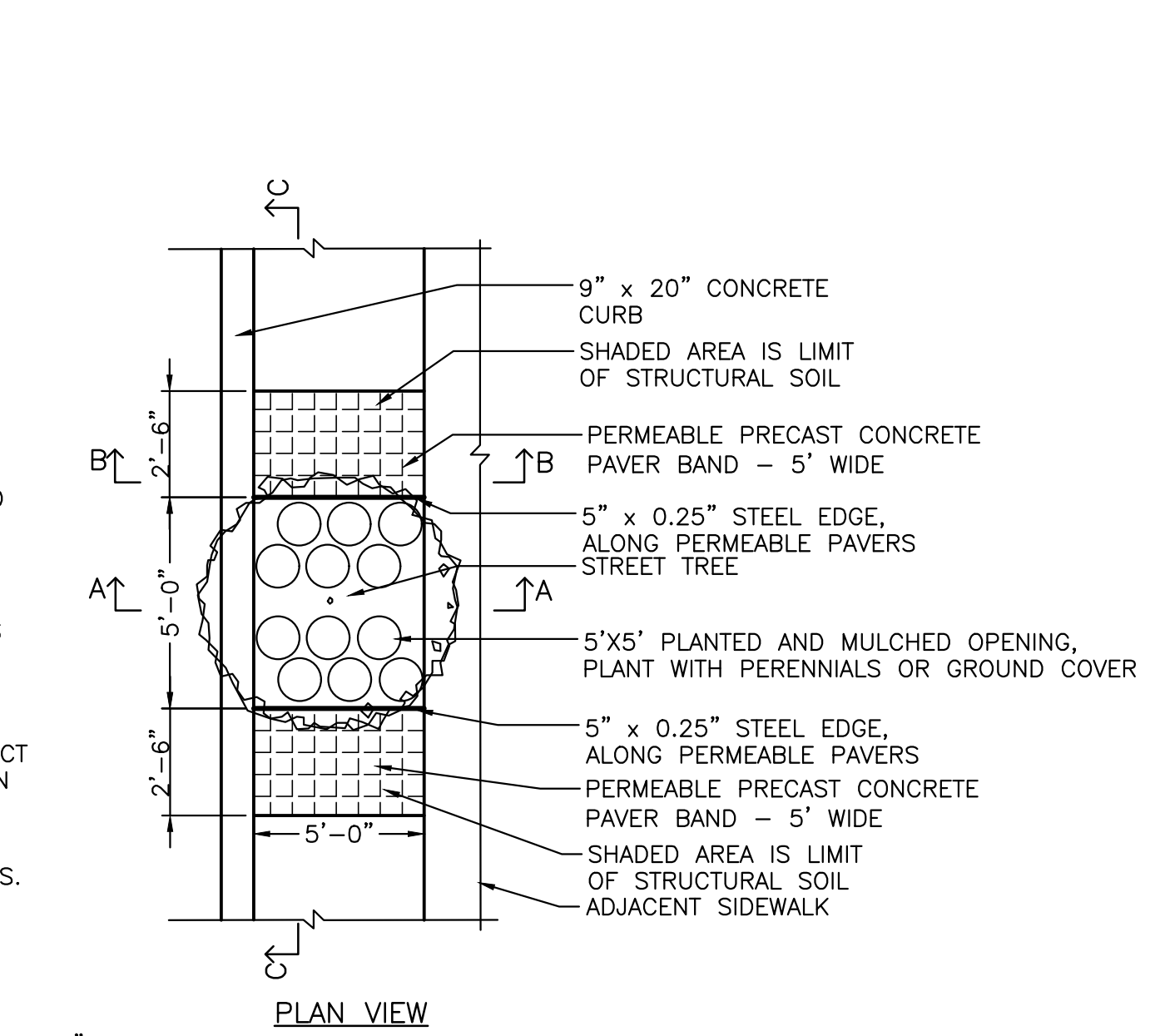
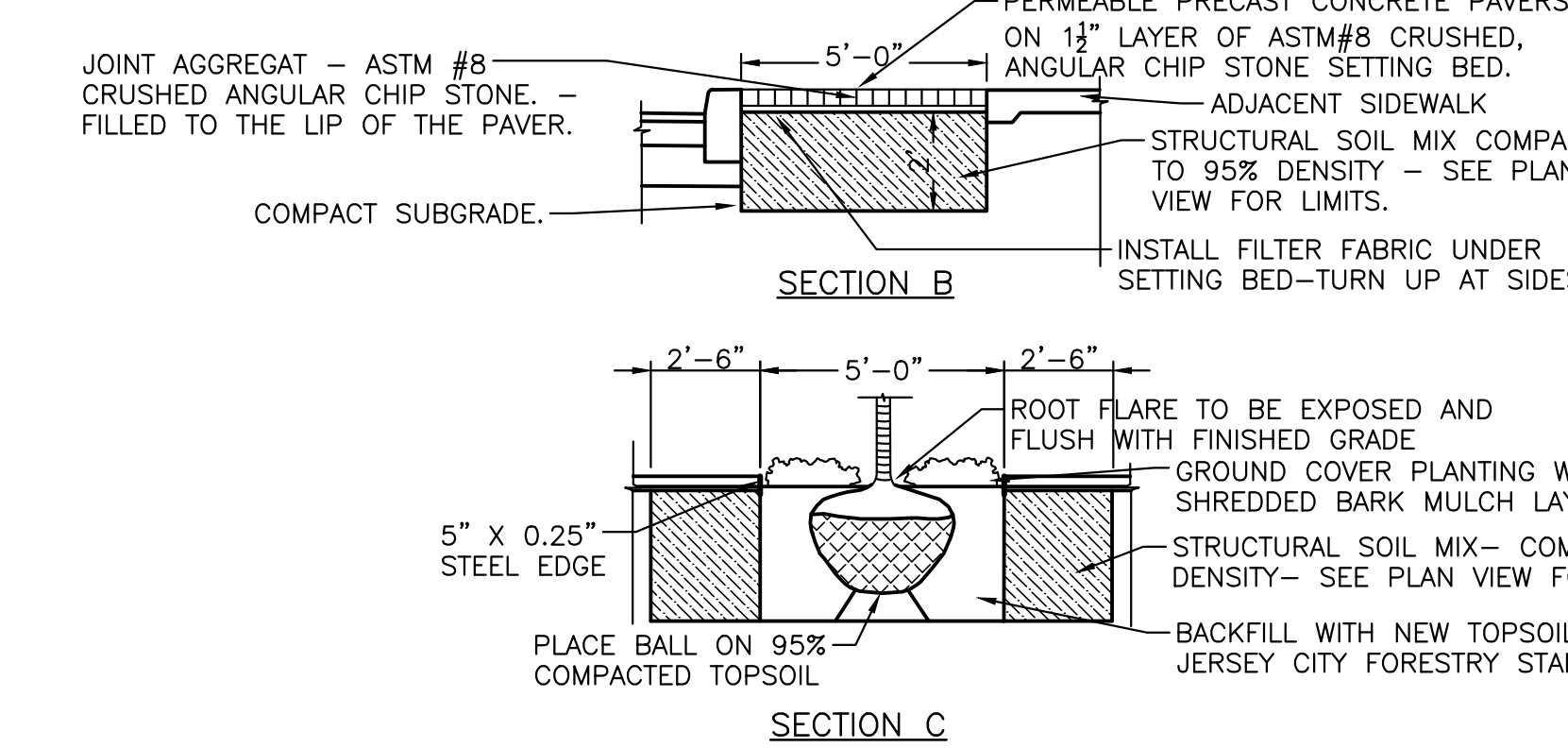
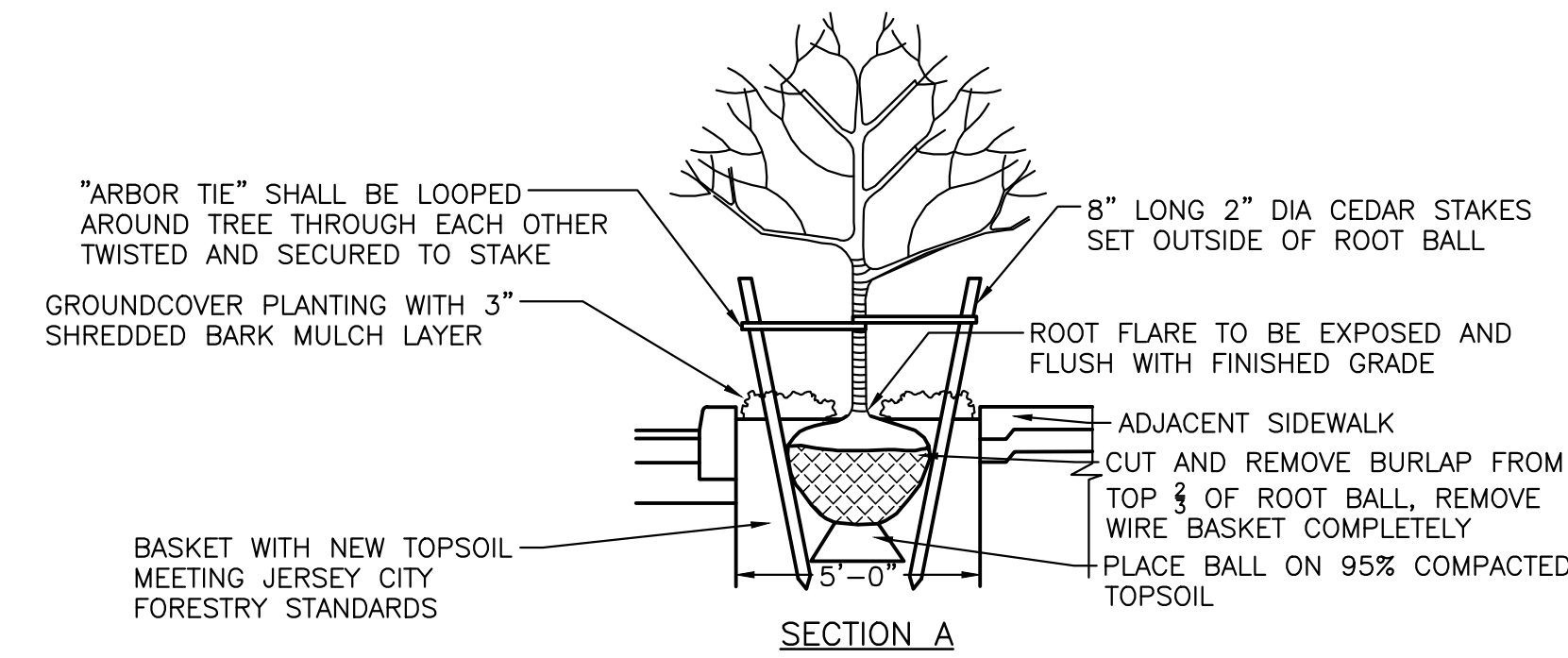
C-004



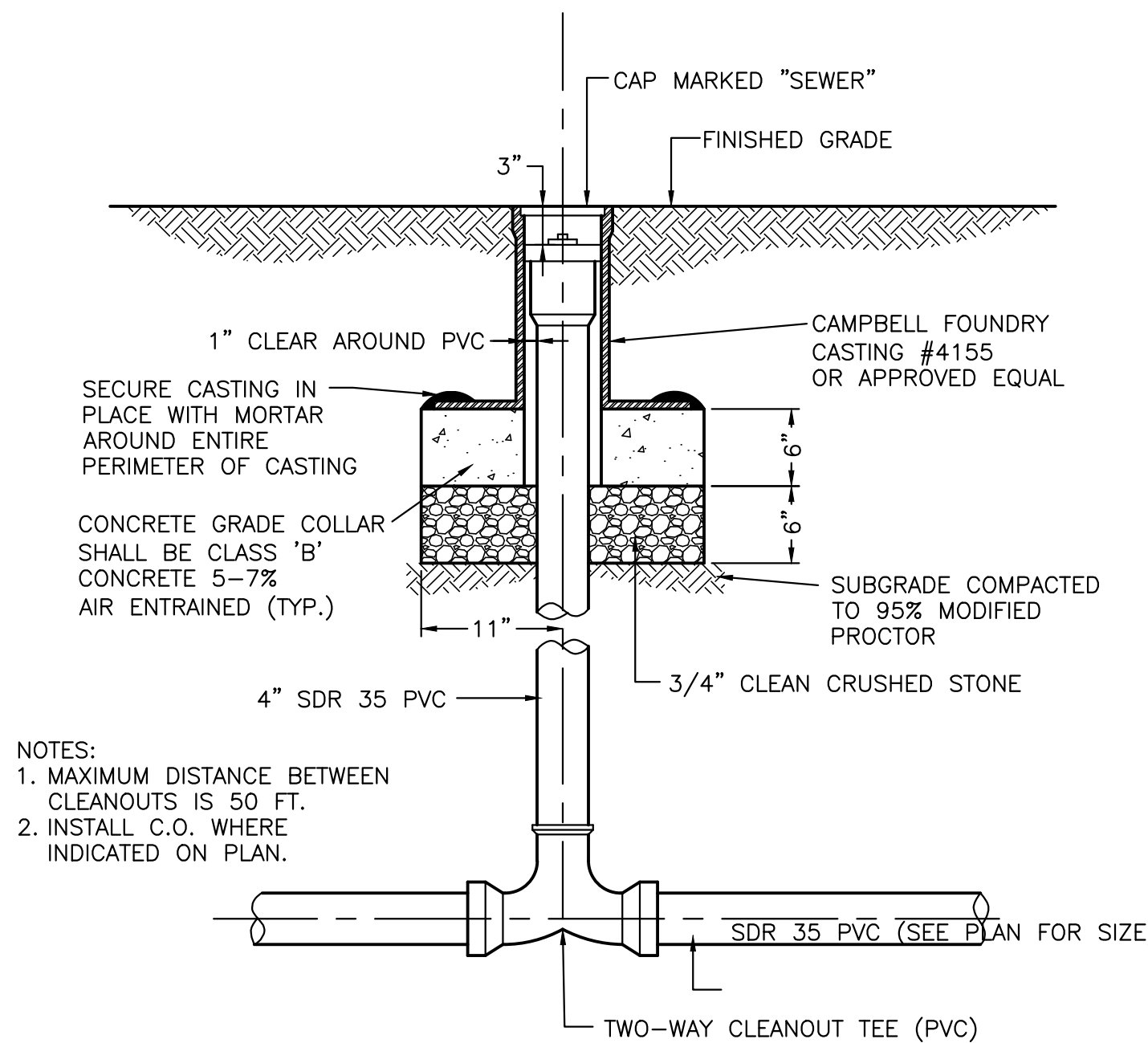
THRUST BLOCK DETAIL
NOT TO SCALE

PIPE SIZE	THRUST BLOCK SCHEDULE										
	TEE		BENDS								
	L	D	22 1/2°		45°		90°		L	D	W
6"	18"	15"	18"	12"	18"	12"	18"	15"	21"		
8"	24"	18"	18"	12"	18"	12"	24"	18"	24"		
12"	36"	24"	24"	12"	24"	12"	36"	24"	28"		
16"	48"	30"	24"	12"	28"	18"	48"	30"	31"		
20"	63"	36"	24"	18"	36"	24"	63"	36"	33"		
24"	90"	36"	36"	18"	48"	30"	90"	36"	36"		
30"	132"	48"	60"	24"	72"	48"	132"	48"	40"		

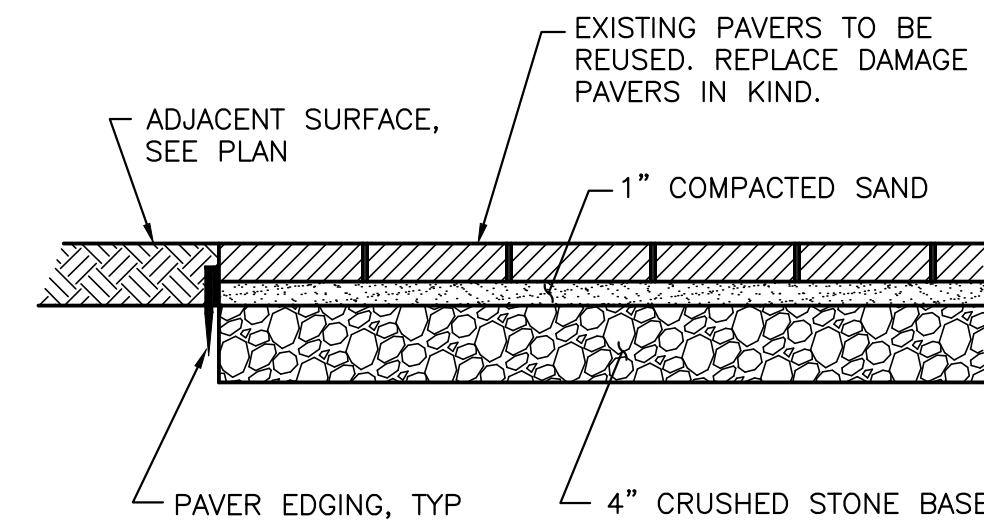
- NOTES:
- DO NOT COVER BELLS OR FLANGES WITH CONCRETE.
 - WRAP ALL FITTINGS WITH VISQUEEN.
 - BACK ALL TEES ACCORDING TO SIZE OF BRANCH.
 - BACKING FUTURE LINE EXTENSIONS SHALL BE SUCH THAT LATER REMOVAL IS POSSIBLE.
 - ALL BENDS WHERE FITTINGS ARE USED, BOTH HORIZONTAL OR VERTICAL SHALL BE BACKED.
 - REACTION BACKING TABLE IS BASED ON 100 P.S.I. AND SOIL BEARING PRESSURE OF 3,000 lb./sq.ft. ADDITIONAL BACKING MAY BE REQUIRED IN SOME AREAS AS DIRECTED BY ENGINEERS.
 - ALL CONCRETE SHALL BE 2500 P.S.I.



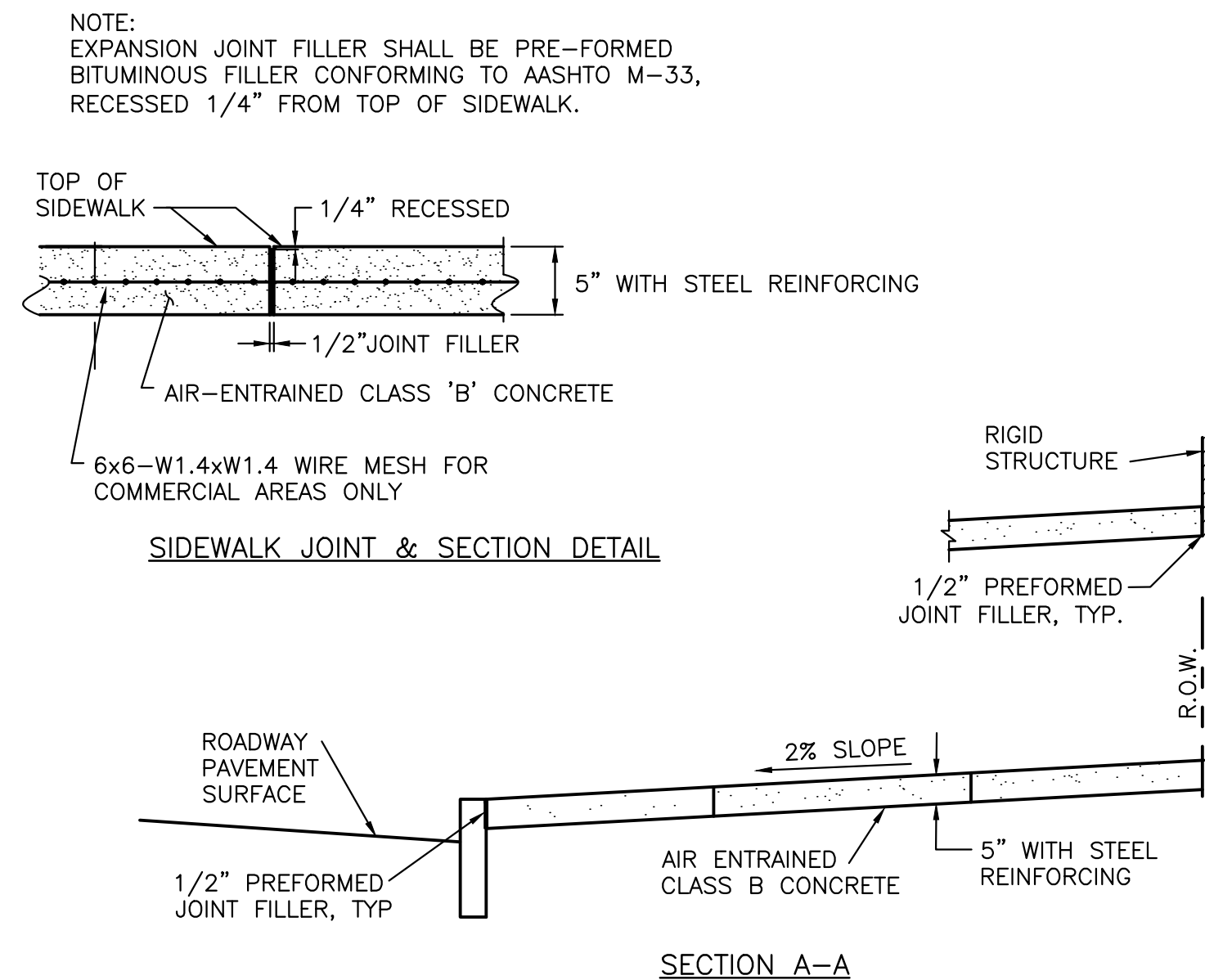
TREE PIT 5'X10'
NOT TO SCALE



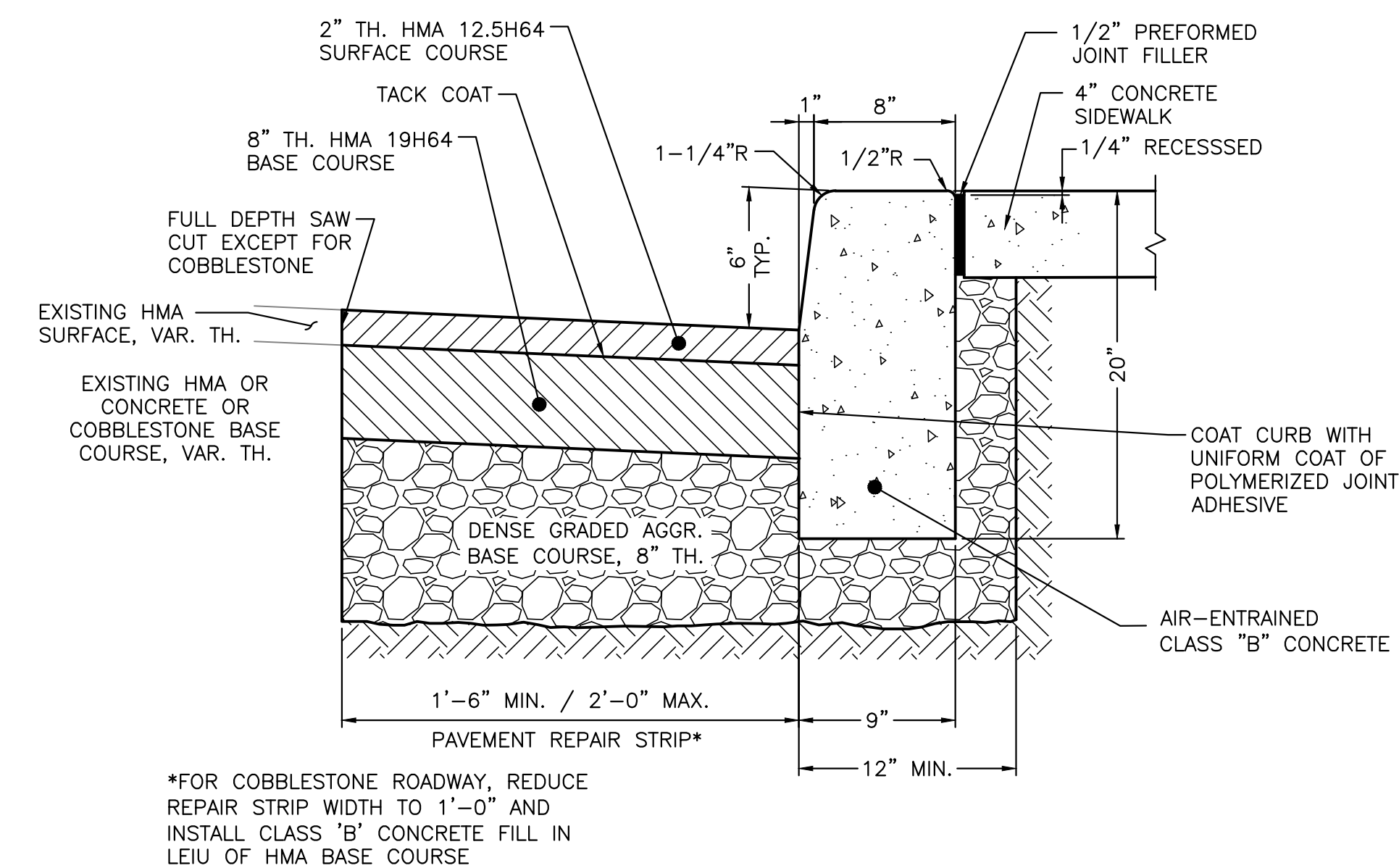
SANITARY TWO-WAY CLEANOUT DETAIL
NOT TO SCALE



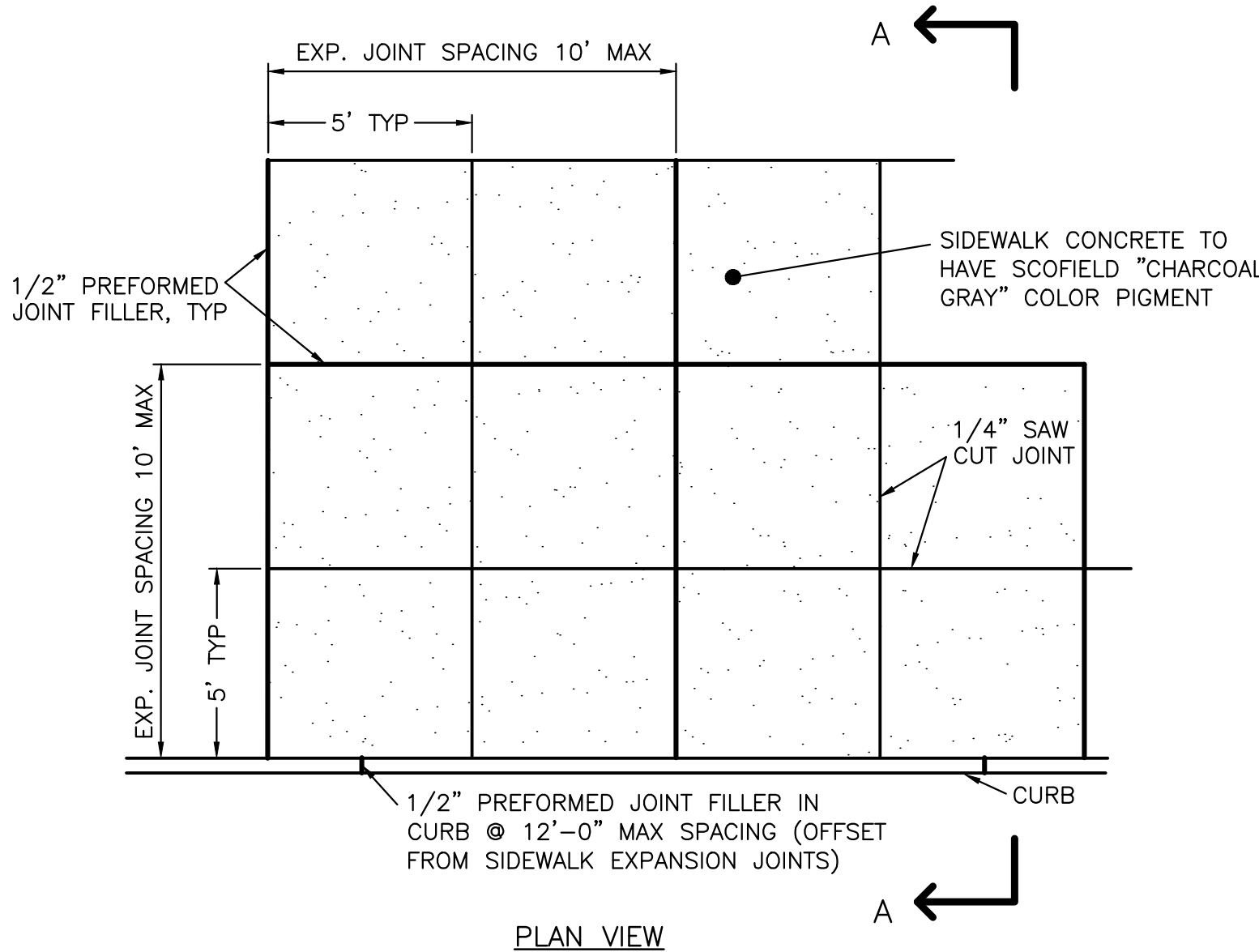
BRICK SIDEWALK DETAIL
NOT TO SCALE



CONCRETE SIDEWALK DETAIL
NOT TO SCALE



CONCRETE CURB DETAIL
NOT TO SCALE



CONCRETE SIDEWALK DETAIL
NOT TO SCALE

DESIGN:

GRO

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PROJECT:

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CLIENT:

CLIENT NAME

CONSULTANTS:

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ZONING SUBMISSION:

PLANNING SUBMISSION: 25 FEBRUARY 2020

PERMIT SUBMISSION:

PROGRESS:

REVISIONS		
NO.	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

PROJECT NUMBER: DRAWN BY: CM

DESIGNED BY: CHECKED BY: MC

SHEET TITLE: CONSTRUCTION DETAILS

SHEET NO.: PAGE NO.:

C-005

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