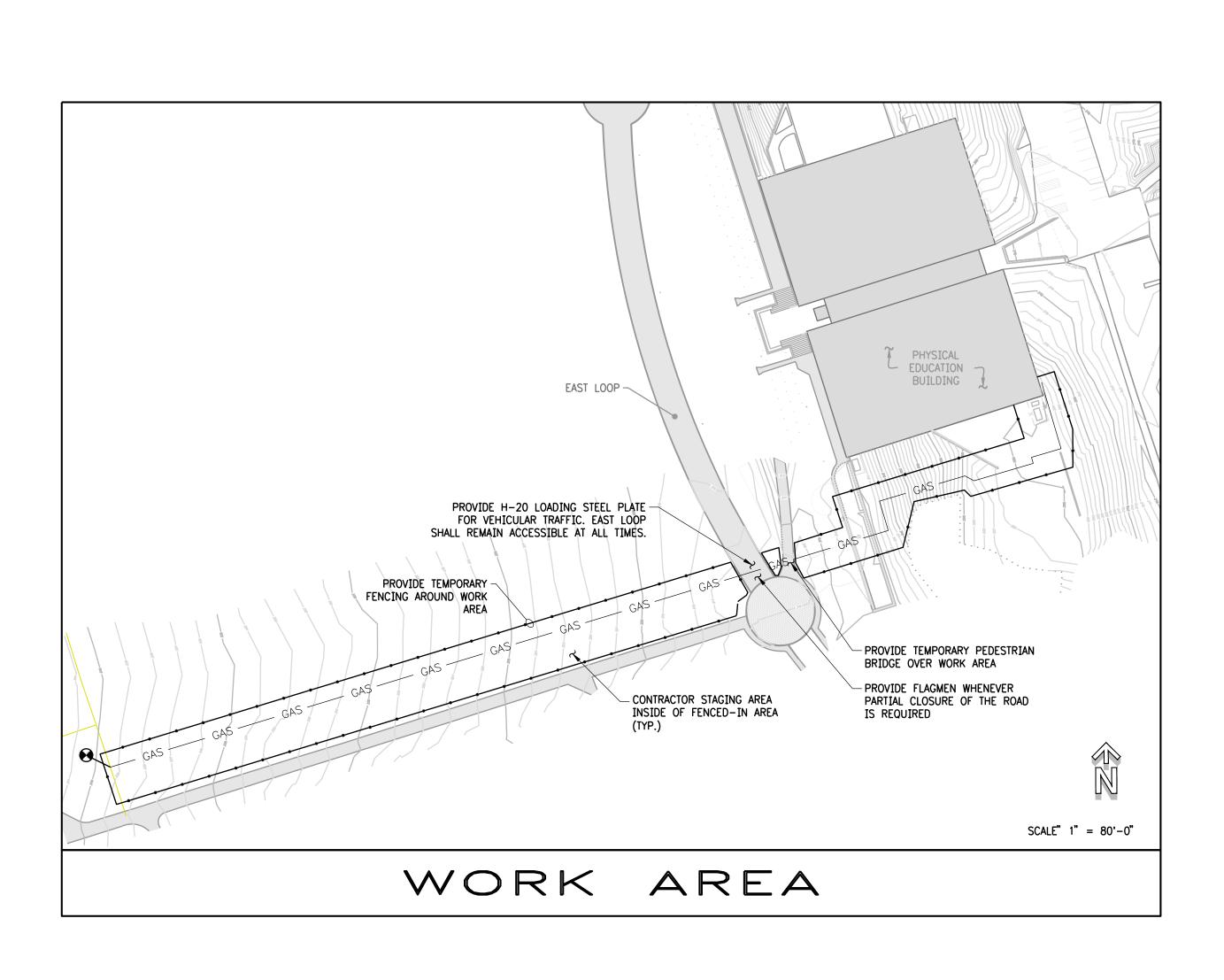


# <u>GENERAL NOTES</u> THE CONTRACTOR SHALL FIELD-VERIFY ALL EXISTING DIMENSIONS

- AND CONDITIONS BEFORE STARTING WORK. EQUIPMENT DIMENSIONAL INFORMATION IS PRESENTED FOR REFERENCE ONLY. DIMENSIONS MAY VARY ACCORDING TO THE
- EQUIPMENT MANUFACTURER SELECTED AND FIELD VARIATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ANY
- DIMENSIONAL VARIATIONS BETWEEN THESE CONSTRUCTION DOCUMENTS AND THE AS-DELIVERED EQUIPMENT.
- 4. THE CONTRACTOR IS RESPONSIBLE TO CONFIRM AND COORDINATE JOBSITE DIMENSIONS THAT AFFECT THE ERECTION OR OPERATION OF SYSTEMS, AS INTENDED BY THESE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL ENSURE INSTALLED EQUIPMENT MAINTAINS ADEQUATE CLEARANCES FOR OPERATIONAL ACCESS AND SERVICE, AND SHALL MAINTAIN ANY CLEARANCES REQUIRED BY ALL APPLICABLE CODES.
- 5. THE CONTRACTOR SHALL INFORM THE OWNER/ENGINEER OF ANY DISCREPANCIES BETWEEN THE CONSTRUCTION DOCUMENTS AND FIELD CONDITIONS THAT AFFECT THE WORK DESCRIBED HEREIN.
- 6. IF, DURING THE COURSE OF CONSTRUCTION, A CONDITION EXISTS WHICH DISAGREES OR CONFLICTS WITH THE DRAWINGS OR SPECIFICATIONS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER. IF THE CONTRACTOR FAILS TO FOLLOW THIS PROCEDURE, HE SHALL ASSUME ALL RESPONSIBILITY AND LIABILITY ARISING THEREOF.
- THESE CONTRACT DOCUMENTS ARE INTENDED TO INDICATE THE WORK NEEDED TO PROVIDE A COMPLETE AND READY-FOR-OPERATION INSTALLATION. THESE DOCUMENTS ARE INTENDED TO GUIDE THE CONTRACTOR. THESE DOCUMENTS ARE NOT INTENDED TO SHOW EVERY DETAIL OF THE EXISTING CONDITIONS OR NEW INSTALLATIONS. NOR DO THEY DESCRIBE EVERY FITTING REQUIRED FOR THE INSTALLATION OF THE WORK.
- "PROVIDE" SHALL MEAN "FURNISH AND INSTALL" AND SHALL INCLUDE ALL EQUIPMENT, DEVICES, HARDWARE, MOUNTS, LABOR, RIGGING, SUBCONTRACTS, ETC., THAT RESULT IN A COMPLETE AND FUNCTIONAL JOB.
- 9. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL EQUIPMENT, ACCESSORIES, SUPPORTS, FITTINGS, AND ALL OTHER INCIDENTAL MATERIAL NEEDED FOR THE COMPLETE AND OPERATING INSTALLATION. MINOR ITEMS TO FINISH THE WORK SUCH AS PATCHING. BLOCKING. TRIM. TOUCH-UP PAINT, ETC., SHALL BE PROVIDED WHETHER OR NOT INDICATED IN THE CONTRACT DOCUMENTS.
- 10. THE CONTRACTOR SHALL PROVIDE ALL LABOR AND MATERIALS REQUIRED TO ASSEMBLE LOOSE EQUIPMENT AND PARTS AS SHIPPED BY THE EQUIPMENT MANUFACTURERS FOR ALL OWNER-FURNISHED EQUIPMENT.
- 11. THE CONTRACTOR'S BID SHALL BE BASED ON THE EQUIPMENT LISTED IN THESE CONTRACT DOCUMENTS. SHOULD THE CONTRACTOR WISH TO SUBSTITUTE ALTERNATE EQUIPMENT, HE SHALL LIST SUCH ALTERNATES DURING THE BIDDING PROCESS AND HE SHALL LIST THE AMOUNT OF MONEY TO BE ADDED OR DEDUCTED FROM HIS PRICE. FINAL APPROVAL FOR SUBSTITUTES SHALL BE OBTAINED FROM THE CONSTRUCTION MANAGER PRIOR TO PROCURING THE EQUIPMENT. IF THE CONTRACTOR NAMES NO SUBSTITUTES WITH HIS BID, THE EQUIPMENT INDICATED IN THESE DRAWINGS OR SPECIFICATIONS SHALL BE USED.
- 12. THE CONTRACTOR SHALL ASSUME ALL COSTS ASSOCIATED WITH PROVIDING SUBSTITUTES. "SUBSTITUTES" SHALL INCLUDE ACCEPTABLE ALTERNATES, ALTERNATES TO THE SCOPE OF WORK, OR ANY MODIFICATIONS THAT DEVIATE FROM THE BASE-BID DESIGN. THE ASSOCIATED COSTS SHALL INCLUDE, BUT ARE NOT LIMITED TO REDESIGN & ENGINEERING COSTS, CHANGES CAUSED INTERRELATED SYSTEMS SUCH AS ELECTRICAL COMPONENTS, WIRING, AND CONNECTIONS, CHANGES TO MOUNTING SYSTEMS OR STRUCTURES, REROUTING OF INTERFERENCES, ETC.
- 13. SIGNIFICANT SUBSTITUTIONS PROPOSED BY THE CONTRACTOR MAY REQUIRE SUBMISSIONS OF STRESS OR SAFETY ANALYSES SEALED BY A REGISTERED PROFESSIONAL ENGINEER AT THE DISCRETION OF THE OWNER'S REPRESENTATIVE AND AT NO COST TO THE OWNER.



UNAUTHORIZED ALTERATION OR ADDITION TO THESE PLAN IS A VIOLATION OF SECTION 7209 OF | TO THE BEST OF MY KNOWLEDGE, BELIEF

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW ALL OF THE DRAWINGS AND SPECIFICATIONS ASSOCIATED WITH THIS PROJECT PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. SHOULD THE CONTRACTOR FIND A CONFLICT WITH THE DOCUMENTS RELATIVE TO THE SPECIFICATIONS OR APPLICABLE CODES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY

THE PROJECT ENGINEER OF RECORD IN WRITING PRIOR TO THE START OF CONSTRUCTION. FAILURE BY THE CONTRACTOR TO NOTIFY THE PROJECT ENGINEER SHALL CONSTITUTE ACCEPTANCE OF FULL RESPONSIBILITY BY THE CONTRACTOR TO

COMPLETE THE SCOPE OF WORK AS DEFINED BY THE DRAWINGS AND IN FULL CONFORMANCE WITH LOCAL REGULATIONS

AND PROFESSIONAL JUDGMENT, THESE PLANS AND SPECIFICATIONS ARE IN

COMPLIANCE WITH THE N. Y. S. ENERGY

DO NOT SCALE DRAWING

CONSERVATION CONSTRUCTION CODE.

THE NEW YORK STATE EDUCATION LAW.

COPIES OF THESE PLANS NOT BEARING THE PROFESSIONAL ENGINEER'S INKED SEAL OR EMBOSSED

SEAL SHALL NOT BE CONSIDERED TO BE A VALID TRUE COPY.

AND CODES.

- THE CONTRACTOR SHALL GIVE NOTICES, OBTAIN ALL PERMITS, PAY ALL FEES AND COMPLY WITH ALL LAWS, RULES AND REGULATIONS APPLICABLE TO THE WORK. THE CONTRACTOR SHALL USE SHOP SUBMITTALS FOR FINAL
- COORDINATION OF HIS WORK. THE CONTRACTOR SHALL SUBMIT EQUIPMENT INFORMATION, SHOP DRAWINGS AND A CONSTRUCTION SCHEDULE TO THE OWNER FOR
- APPROVAL BEFORE STARTING ANY WORK OR PURCHASING ANY EQUIPMENT. ALL MATERIALS PROVIDED SHALL BE NEW AND FREE FROM ANY DEFECT. SALVAGED OR REBUILT EQUIPMENT SHALL NOT BE
- PERMITTED. ALL MATERIALS, PIPING, ETC., SHALL BE PROVIDED AND INSTALLED IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS, AND ALL LOCAL AND NATIONALLY RECOGNIZED STANDARDS, SUCH AS NFPA, NEC, ASTM, UL, ETC., AS EXAMPLES.
- THE CONTRACTOR SHALL ENSURE COORDINATION SO THAT ONCE THE PROJECT IS STARTED, IT SHALL CONTINUE WITHOUT DELAY UNTIL COMPLETION.
- THE CONTRACTOR IS RESPONSIBLE FOR THE WORK OF ALL HIS SUBCONTRACTORS, AND THEIR CONFORMANCE TO THESE CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THE WORK OF OTHER CONTRACTORS AND THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL PROVIDE NOTIFICATION AND OPPORTUNITY 22. FOR INSPECTION TO THE OWNER BEFORE CLOSING UP ANY WORK, EQUIPMENT, OR PIPING SYSTEM.
- 23. THE CONTRACTOR SHALL PROVIDE ALL BUILDING MODIFICATIONS AND CONSEQUENTIAL REPAIRS TO THE BUILDING FOR RIGGING, INSTALLATION OF EGRESSES, INSTALLATION OF VENTS, ETC., AS REQUIRED TO PERFORM THIS WORK.
- 24. THE CONTRACTOR SHALL PERFORM ALL ACCEPTANCE TESTS IN THE PRESENCE OF THE OWNER OR OWNER'S REPRESENTATIVE.
- THE CONTRACTOR SHALL MAINTAIN THE WORK AREA IN A STATE 25. FREE FROM HAZARDS. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS, FOLLOW SAFE WORKING PRACTICES, AND MAINTAIN THE SITE AND ADJACENT AREAS SAFE FOR WORKERS, INSPECTORS, AND FACILITY EMPLOYEES. 26. SITE SAFETY SHALL BE THE SOLE RESPONSIBILITY OF THE
- CONTRACTOR. 27. THE OWNER'S REPRESENTATIVE DOES NOT PROFESS TO BE FAMILIAR WITH CONSTRUCTION SITE SAFETY REQUIREMENTS. MEETING SITE SAFETY AND OSHA REQUIREMENTS IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE OWNER'S REPRESENTATIVE RESERVES THE RIGHT TO RETAIN A THIRD PARTY CONSULTANT IF HE OBSERVES PRACTICES THAT APPEAR UNSAFE.
- IF THE OWNER'S REPRESENTATIVE DEEMS THAT ANY UNSAFE CONDITION APPEARS TO EXIST, THE OWNER HAS THE RIGHT TO STOP ALL WORK. ANY STOP-WORK ORDERS BY THE OWNER BECAUSE OF POTENTIALLY UNSAFE CONDITIONS SHALL NOT BE USED BY THE CONTRACTOR TO DELAY THE WORK SCHEDULE, INCREASE THE CONTRACT VALUE, OR AVOID ANY LIQUIDATED-DAMAGE PENALTIES ASSOCIATED WITH THE WORK OR TO MAKE A CLAIM AGAINST THE OWNER OR CONSTRUCTION MANAGER.
- THE OWNER REQUIRES ACCESS TO AND AROUND AREAS OF THE 29. BUILDING IMMEDIATELY ADJACENT TO AREAS OF THE WORK. ALL WORK MUST BE CONDUCTED IN A MANNER TO MINIMIZE DISRUPTION OF NORMAL FACILITY OPERATIONS.
- SAFE AND DIRECT ENTRANCE TO AND FROM THE EXISTING BUILDING SHALL BE MAINTAINED AT ALL TIMES WHILE CONSTRUCTION IS IN PROGRESS.

- ALL CONSTRUCTION MATERIALS AND TOOLS SHALL BE STORED IN AREAS DESIGNATED BY THE OWNER. THE OWNER SHALL NOT BE RESPONSIBLE FOR ANY OF THE CONTRACTOR'S SHIPPING, DELIVERY OR SECURITY ISSUES RELATED TO MATERIALS, EQUIPMENT, OR TOOL STORAGE.
- THE CONTRACTOR SHALL LEAVE THE SITE IN A NEAT, ORDERLY AND 32. SAFE CONDITION AT THE END OF EACH WORK DAY. THE SITE AND BUILDING SHALL BE MADE AS SECURE AS POSSIBLE SO AS TO PREVENT UNAUTHORIZED ENTRY AND ACTIVITY. ATTENTION SHALL BE GIVEN TO WEATHER PROTECTION, INCLUDING UNCONDITIONED AIR INFILTRATION DURING THE CONSTRUCTION PERIOD.
- ALL DEMOLISHED MATERIALS, UNLESS OTHERWISE NOTED, SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE.
- DISPOSAL OF ALL MATERIALS SHALL BE DONE BY THE CONTRACTOR IN ACCORDANCE WITH STATE & LOCAL REQUIREMENTS. THE CONTRACTOR SHALL MAINTAIN THE RECORDS OF PROPER DISPOSAL, WHICH SHALL BE SUBMITTED TO THE OWNER'S REPRESENTATIVE UPON HIS REQUEST.
- THE OWNER SHALL HAVE THE RIGHT AT ALL TIMES TO EXAMINE THE WORK AND DETERMINE THE CONFORMANCE WITH THE REQUIREMENTS AND INTENT OF THE CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL COMPLETE ALL WORK WITH MINIMAL DISRUPTION OF THE FACILITY'S UTILITIES AND OPERATIONS. ANY WORK REQUIRING A SHUTDOWN OF ANY UTILITIES SHALL BE SCHEDULED 3 DAYS IN ADVANCE. ALL OUTAGES SHALL BE COORDINATED WITH THE FACILITY.
- THE FACILITY OPERATES THROUGHOUT THE ENTIRE YEAR. ALL SHUTDOWNS THAT REQUIRE THE LOSS OF UTILITIES TO THE FACILITY SHALL BE LIMITED TO PERIODS & DURATIONS AS SPECIFIED BY THE FACILITY. THE CONTRACTOR'S BID SHALL ANTICIPATE AND INCLUDE THE NECESSARY WEEKEND/MIDNIGHT PREMIUM TIME TO ACCOMPLISH ALL SHUTDOWN WORK WITHIN THE LIMITATIONS OF MAINTAINING CONTINUOUS SERVICE TO THE FACILITY.
- THE CONTRACTOR SHALL MAINTAIN AWARENESS OF THE FACILITY'S SHUTDOWN RESTRICTIONS AND LIMITATIONS. ANY WORK-SCHEDULING PROBLEMS CAUSED BY SHUTDOWN RESTRICTIONS BY THE FACILITY SHALL NOT BE CAUSE FOR CLAIM OR DELAY BY THE CONTRACTOR.
- THE CONTRACTOR SHALL PROVIDE THE NECESSARY LABOR INCLUDING ANY PREMIUM-TIME AND OVERTIME LABOR REQUIRED TO MAINTAIN THE CONSTRUCTION SCHEDULE.
- 40. ALL WIRE, CABLE, TRANSFORMER WINDINGS, ETC. SHALL BE COPPER. ALL STRUCTURAL STEEL, PIPING, REINFORCING STEEL, OR OTHER 41 MAJOR STEEL ITEMS TO BE INCORPORATED IN THE WORK SHALL BE PRODUCED OR MADE IN WHOLE OR SUBSTANTIAL PART IN THE UNITED STATES, ITS TERRITORIES OR POSSESSIONS.
- 42. ALL WORK AND EQUIPMENT SHALL BE FULLY GUARANTEED FOR ONE (1) YEAR FROM DATE OF FINAL PAYMENT AND ACCEPTANCE UNLESS OTHERWISE STATED IN THE SPECIFICATIONS.
- ALL WORK SHALL CONFORM TO NEW YORK STATE BUILDING CONSTRUCTION CODE, THE N.Y.S. ENERGY CONSERVATION CONSTRUCTION CODE AND ALL LOCAL CODES, RULES, REGULATIONS AND ZONING LAWS.
- 44. IT IS A VIOLATION OF NEW YORK STATE LAW FOR ANY PERSON, UNLESS ACTING UNDER DIRECTION OF THE LICENSED ENGINEER, TO ALTER THESE PLANS IN ANY WAY.
- THESE DRAWINGS AND SPECIFICATIONS HAVE BEEN PREPARED THE ENGINEER AND TO THE BEST OF HIS KNOWLEDGE AND BELIEF MEET THE REQUIREMENTS OF THE N.Y.S. ENERGY CONSERVATION CONSTRUCTION CODE.

- THE CONTRACTOR IS RESPONSIBLE FOR THE OUT OF ALL UNDERGROUND UTILITIES. NO E> BE STARTED UNTIL A UTILITY MARK-

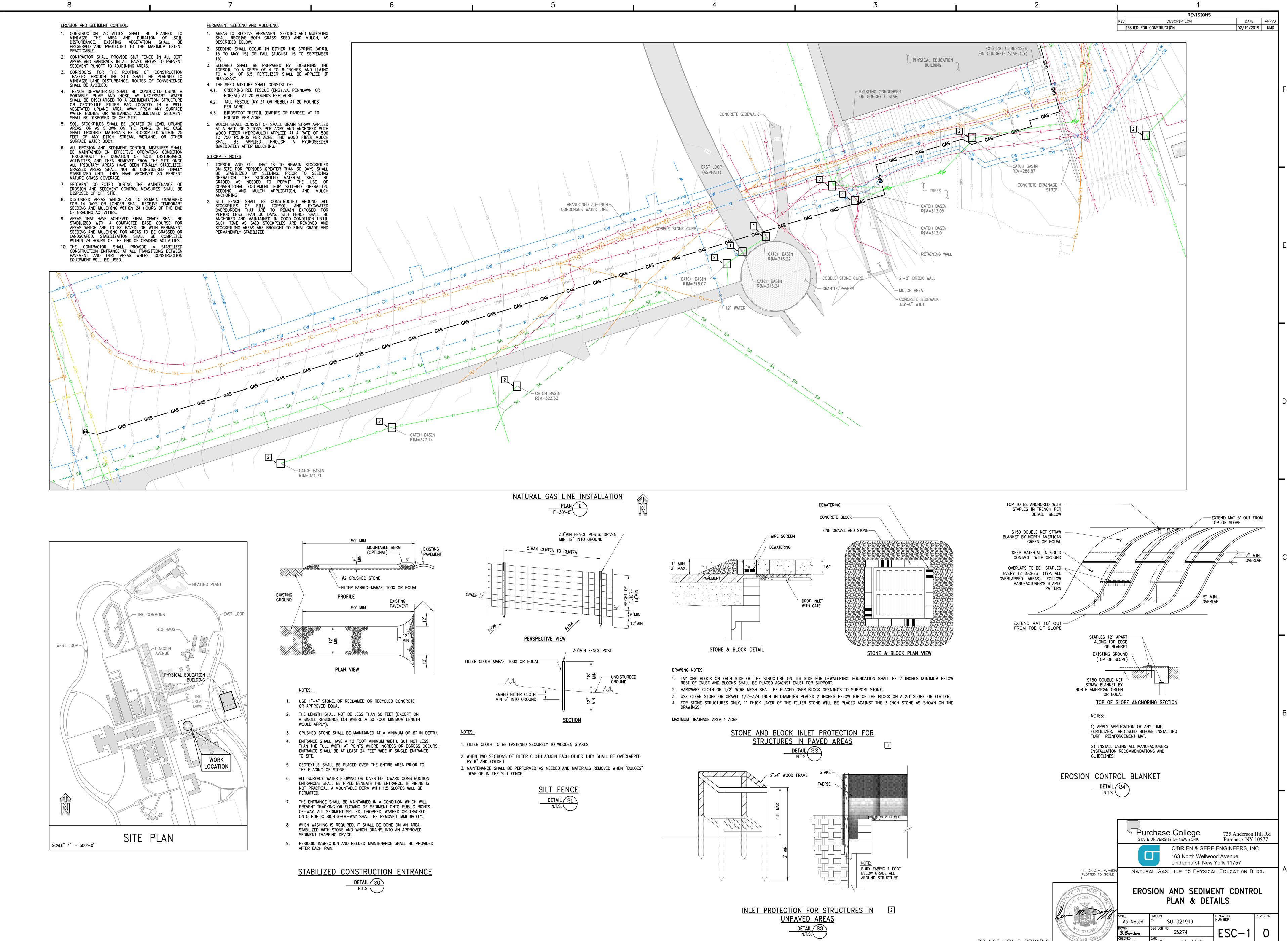
- THE CONTRACTOR SHALL SUBMIT SHOP
- TEMPORARY SUPPORTS THAT ARE REQUIRE UNDERGROUND UTILITIES THAT ARE UNC
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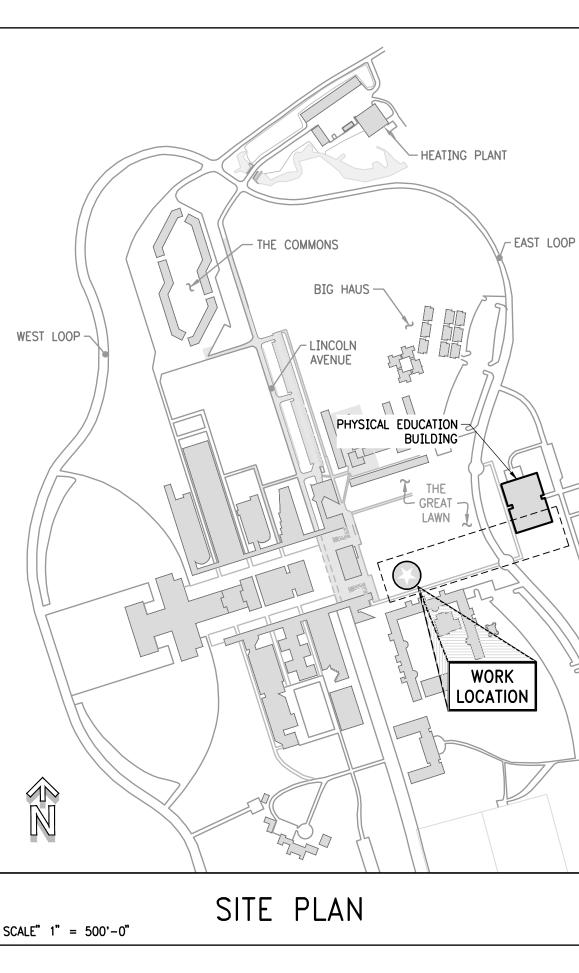
6. THE CONTRACTOR SHALL BE RESPONSIBLE REQUIRED TO COMPLETE THE WORK.

- NO WORK SHALL BEGIN BEFORE MAY 20, 201 COMPLETED BY AUGUST 1, 2019.

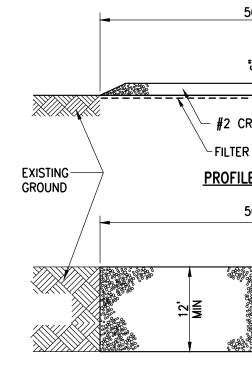
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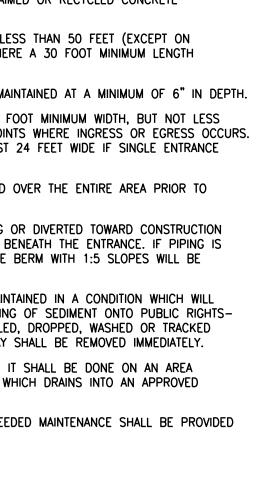


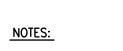


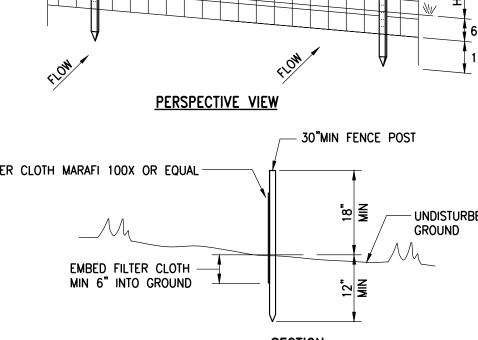
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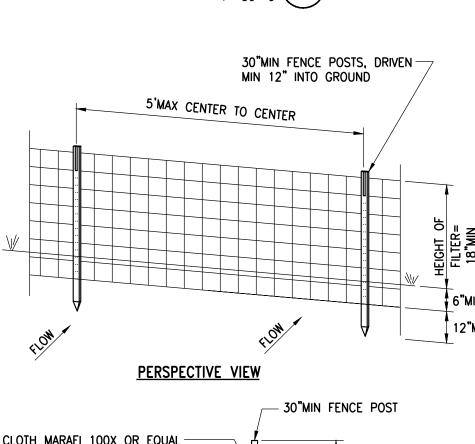


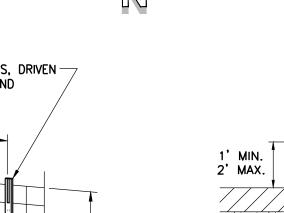
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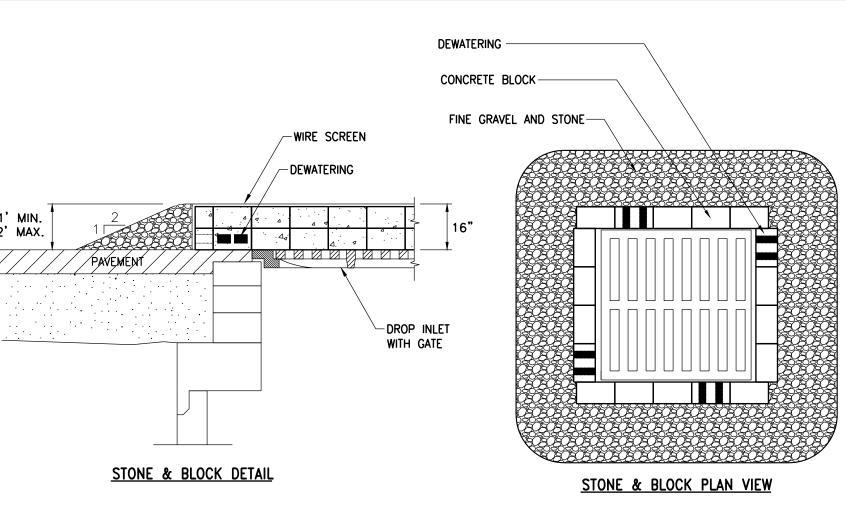


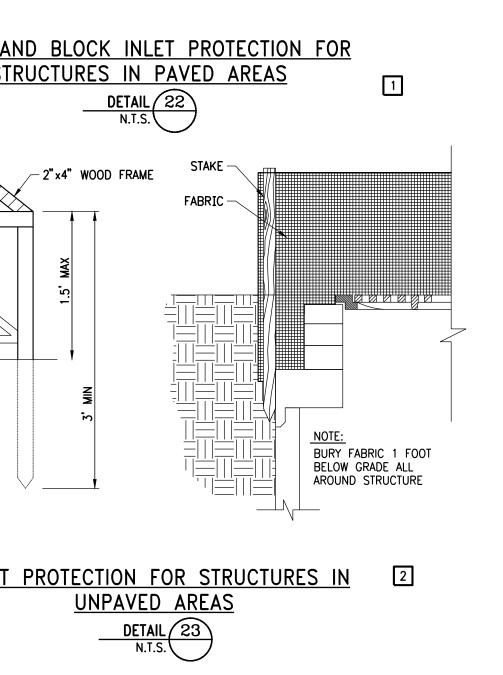


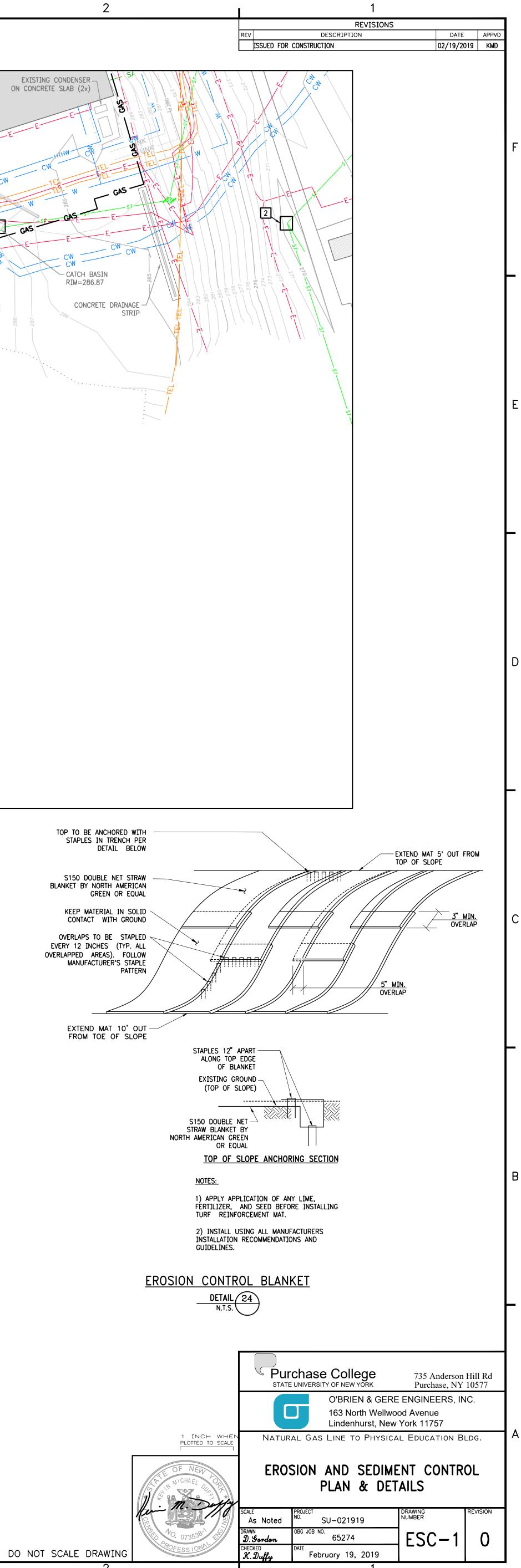


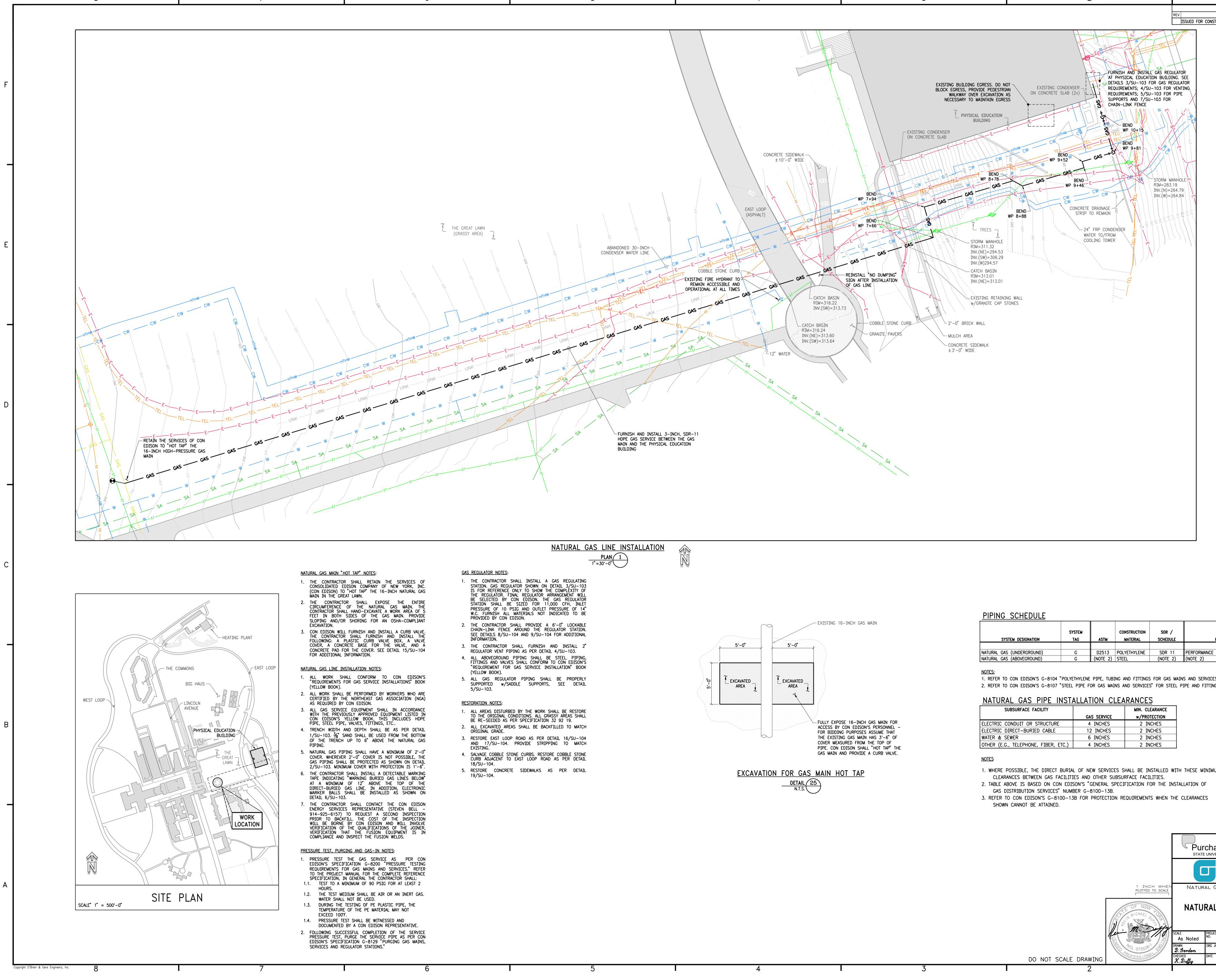










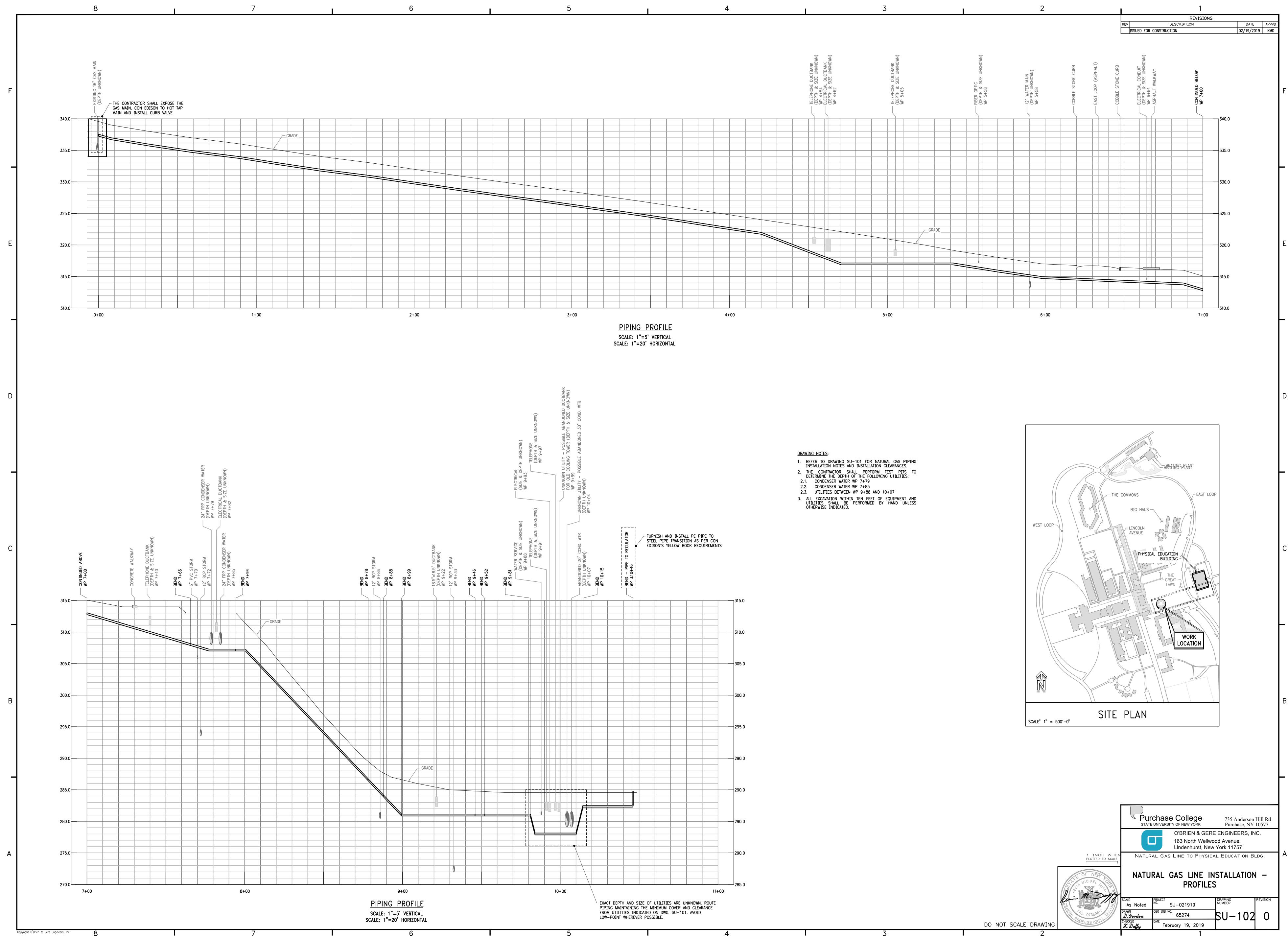


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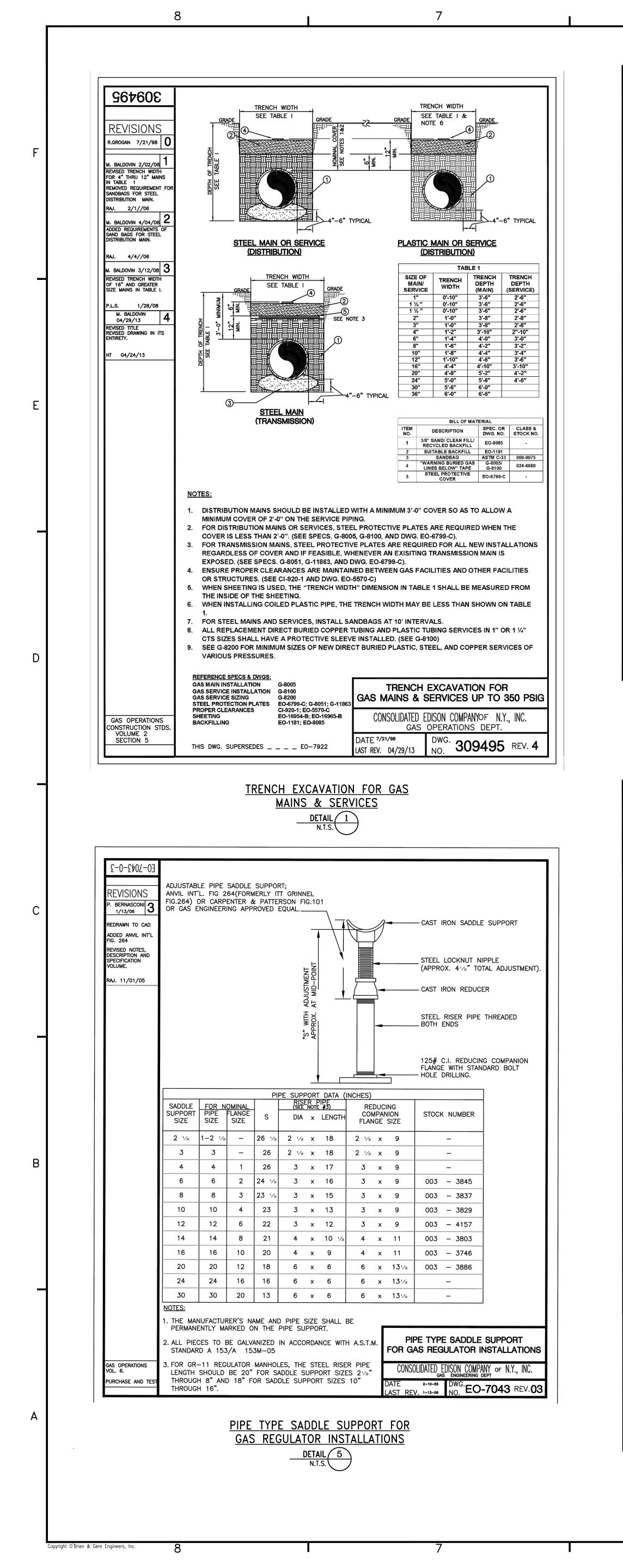
SUBSURFACE FACILITY		MIN. CLEARANCE
	GAS SERVICE	w/PROTECTION
ELECTRIC CONDUIT OR STRUCTURE	4 INCHES	2 INCHES
ELECTRIC DIRECT-BURIED CABLE	12 INCHES	2 INCHES
WATER & SEWER	6 INCHES	2 INCHES
OTHER (E.G., TELEPHONE, FIBER, ETC.)	4 INCHES	2 INCHES

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February 19, 2019



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**ELEVATION** 

LOW PRESSURE

FOR 23000R METERS

(6)----/ j=

(13)(16)

ELEVATION

LOW PRESSURE FOR 3000RTC, 5000RTC, 7000RT

- DO NOT INCLUDE THE REGULATOR IN ANY PIPING PRESSURE

- PIPING MUST BE LEFT BLANKED BY CONTRACTOR PRIOR TO METER INSTALLATION.

- INSTALLATIONS WITH VOLUME CORRECTOR MUST HAVE 24 INCHES MINIMUM CLEARANCE ON TOP OF METER PIPING.

ALL PIPING AND FITTINGS SHALL BE PAINTED WITH PAINT SUITABLE FOR USE ON METAL SURFACES OUTDOORS.

- INSTALL EITHER ITEM 5 OR ITEM 23.

16M175TC/RM16000TC

7000RTC 7M175TC/RM7000TC 5000RTC 5M175TC/RM5000TC

GAS REGULATOR -

SERVICE VALVE

HEAD OF

METER TYPE CLASS (TC OR TCID)

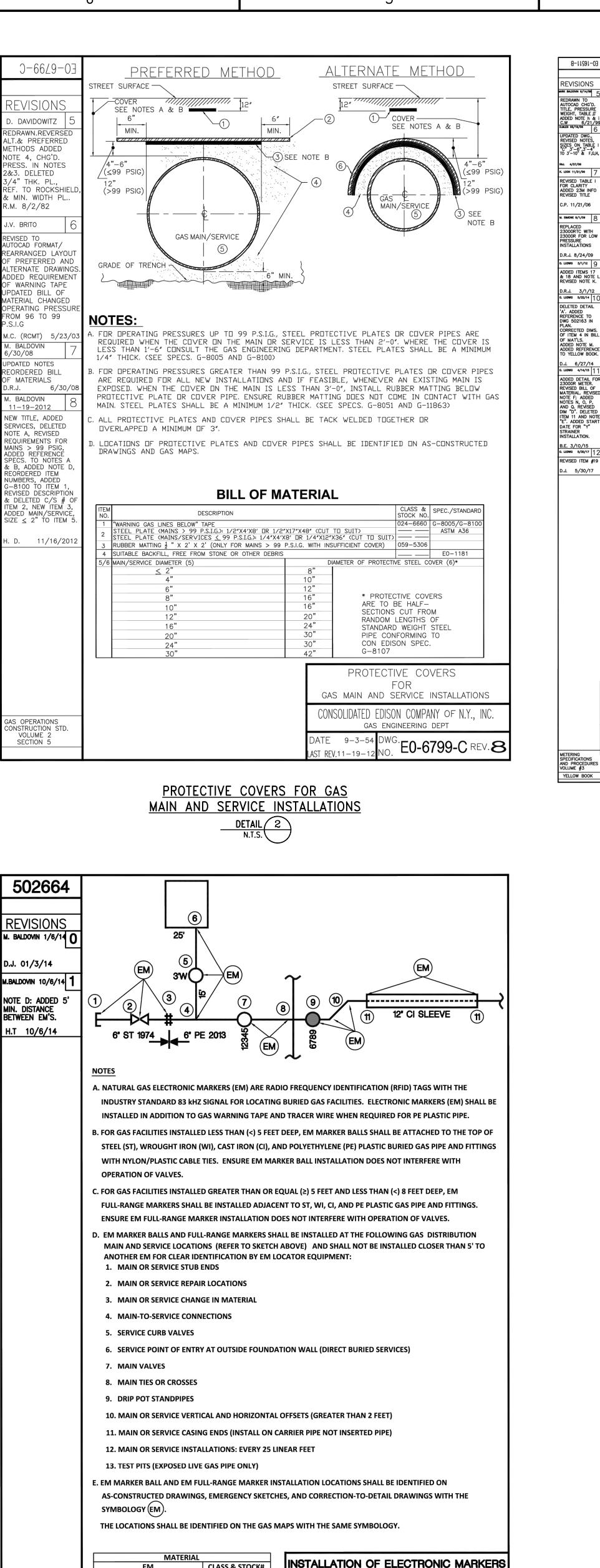
OORTC 3M175TC/RM3000TC

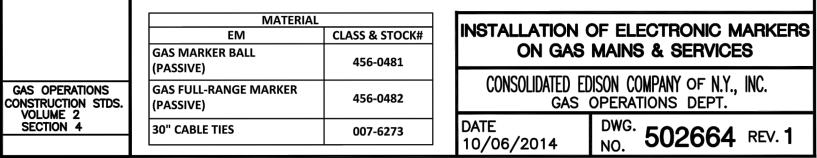
11M175TC/RM11000TC

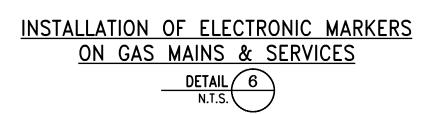
23M175 (LOW PRESSURE ONLY) RM23000TC (HIGH PRESSURE ONLY)

- INSTALL PIPE SUPPORTS AS NEEDED. REFER TO SPEC. G-695.

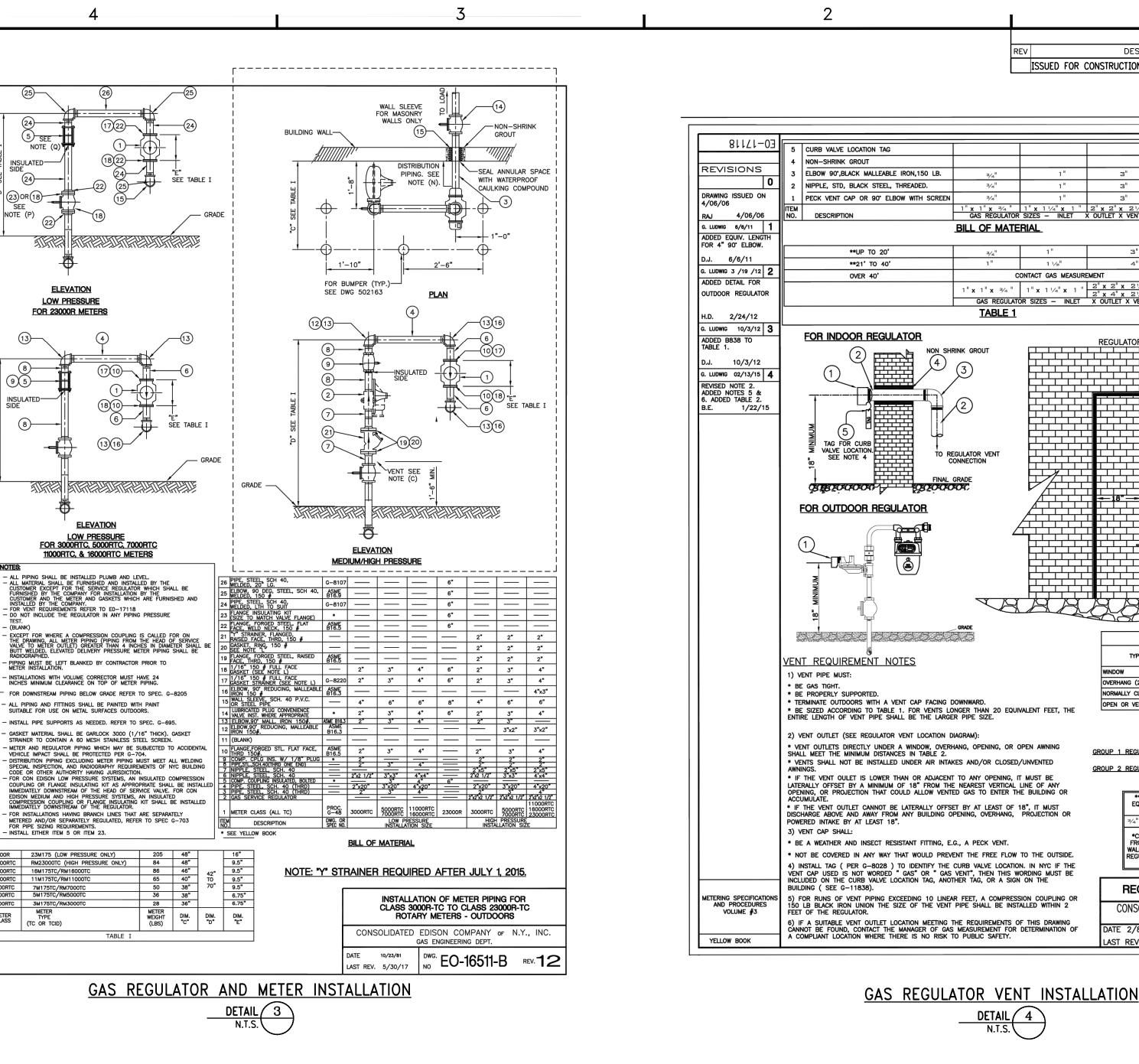
11000RTC, & 16000RTC METERS

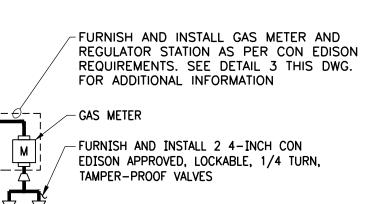




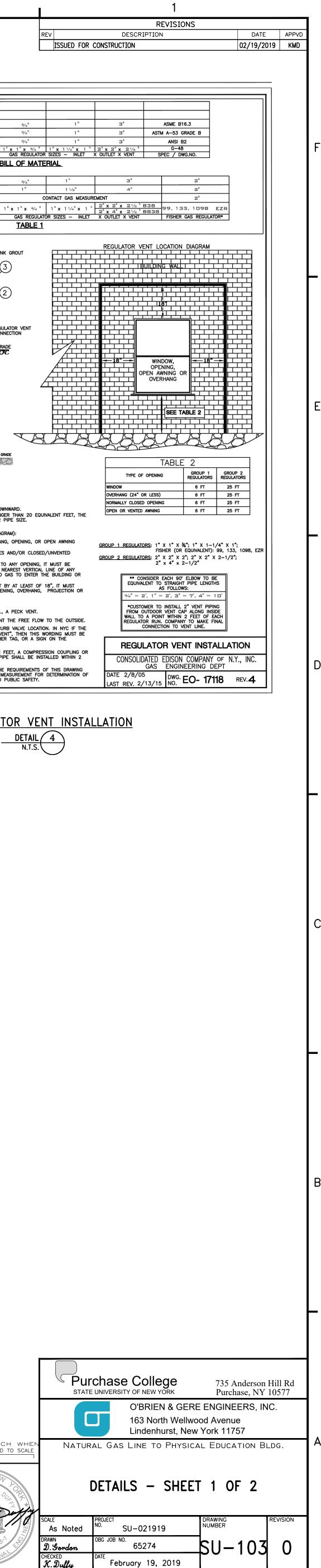


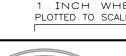


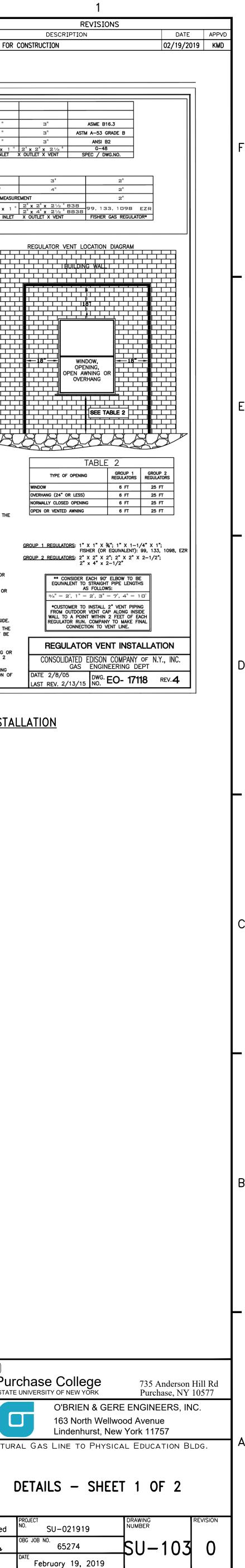




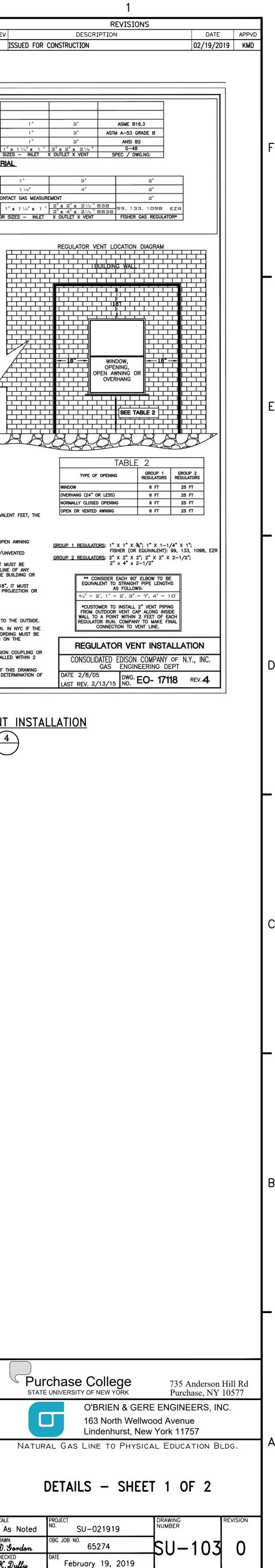
LOCKABLE VALVES FOR BUILDING LOADS DETAIL 27 N.T.S.



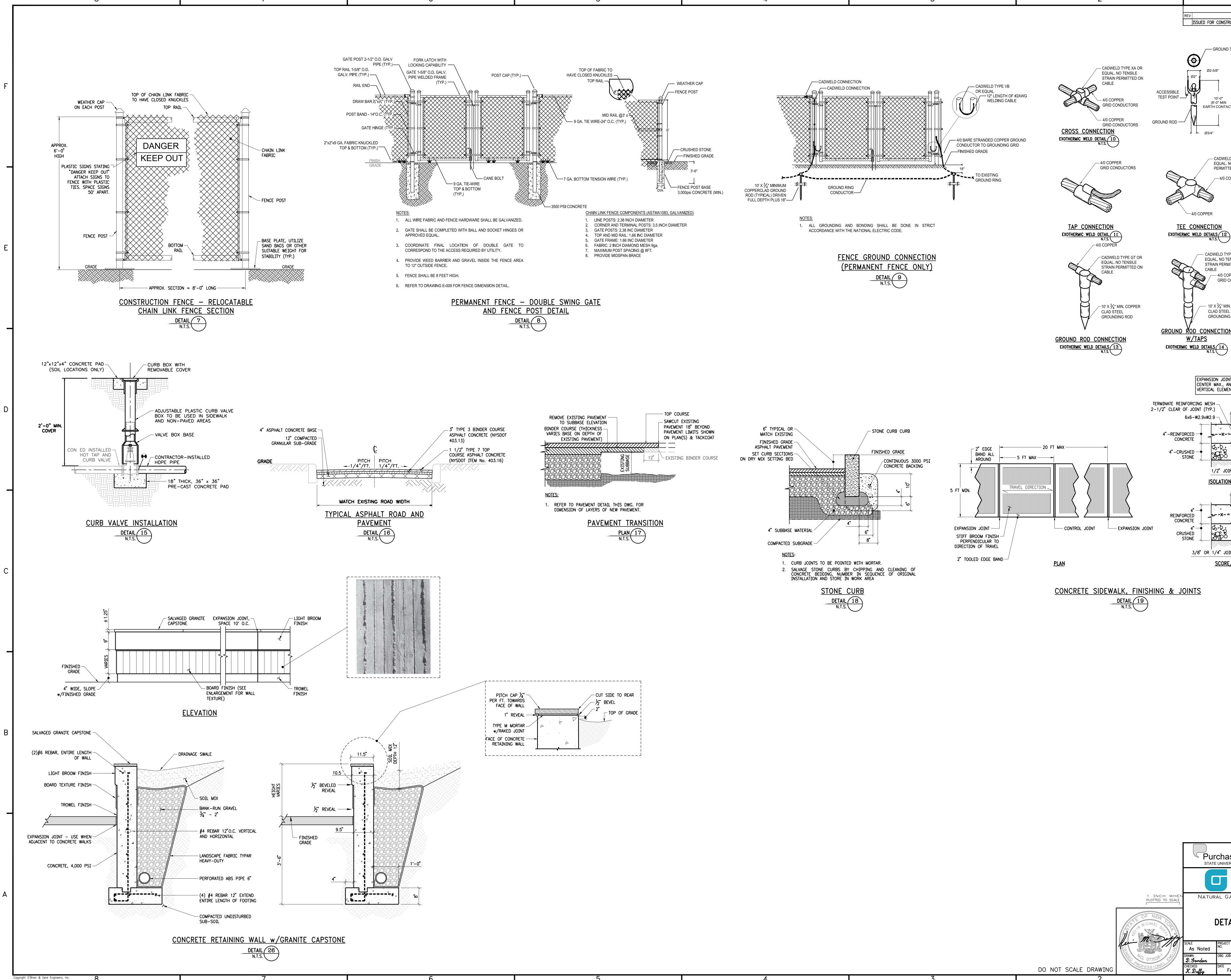


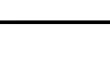


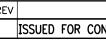




DO NOT SCALE DRAWING

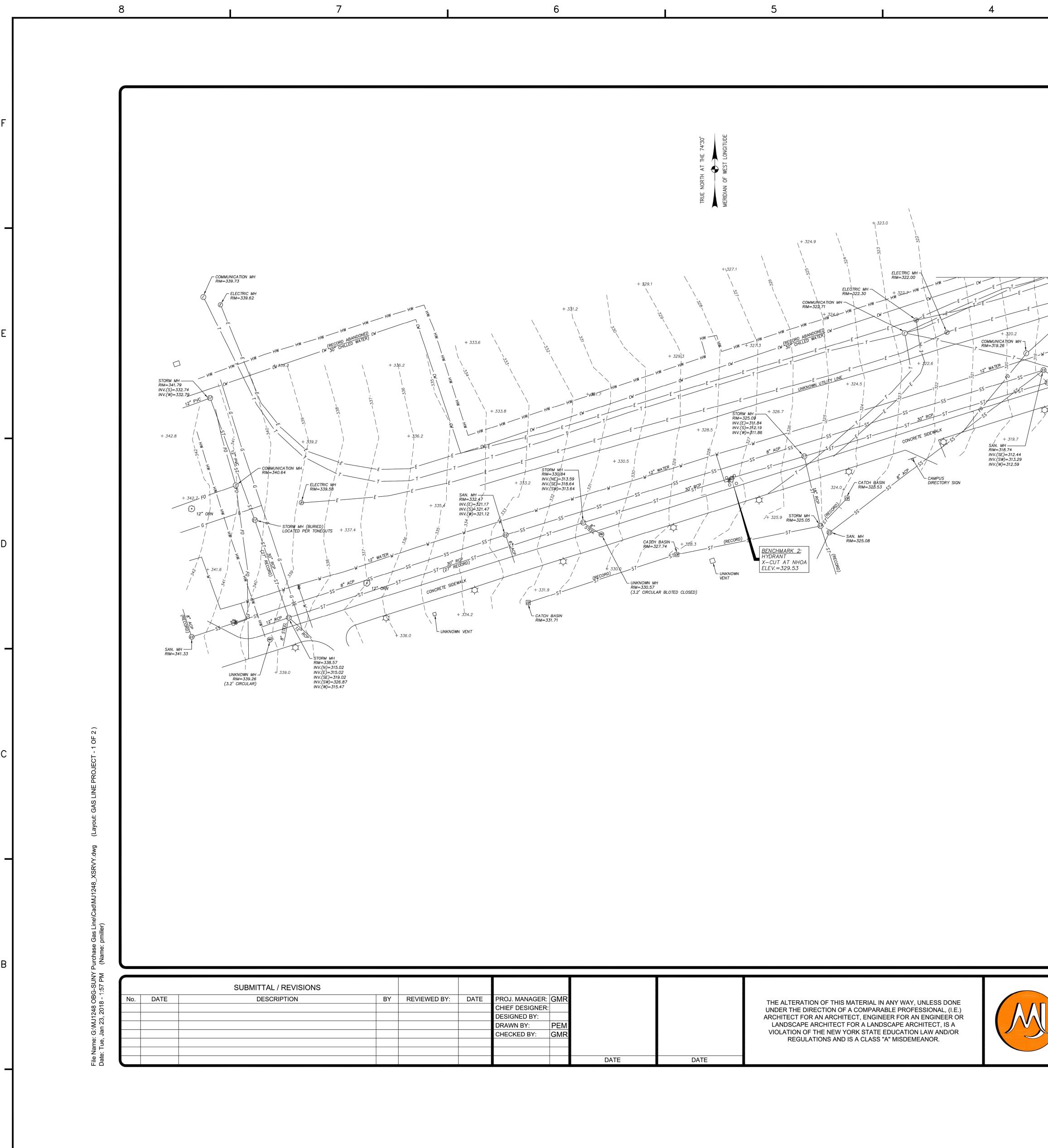






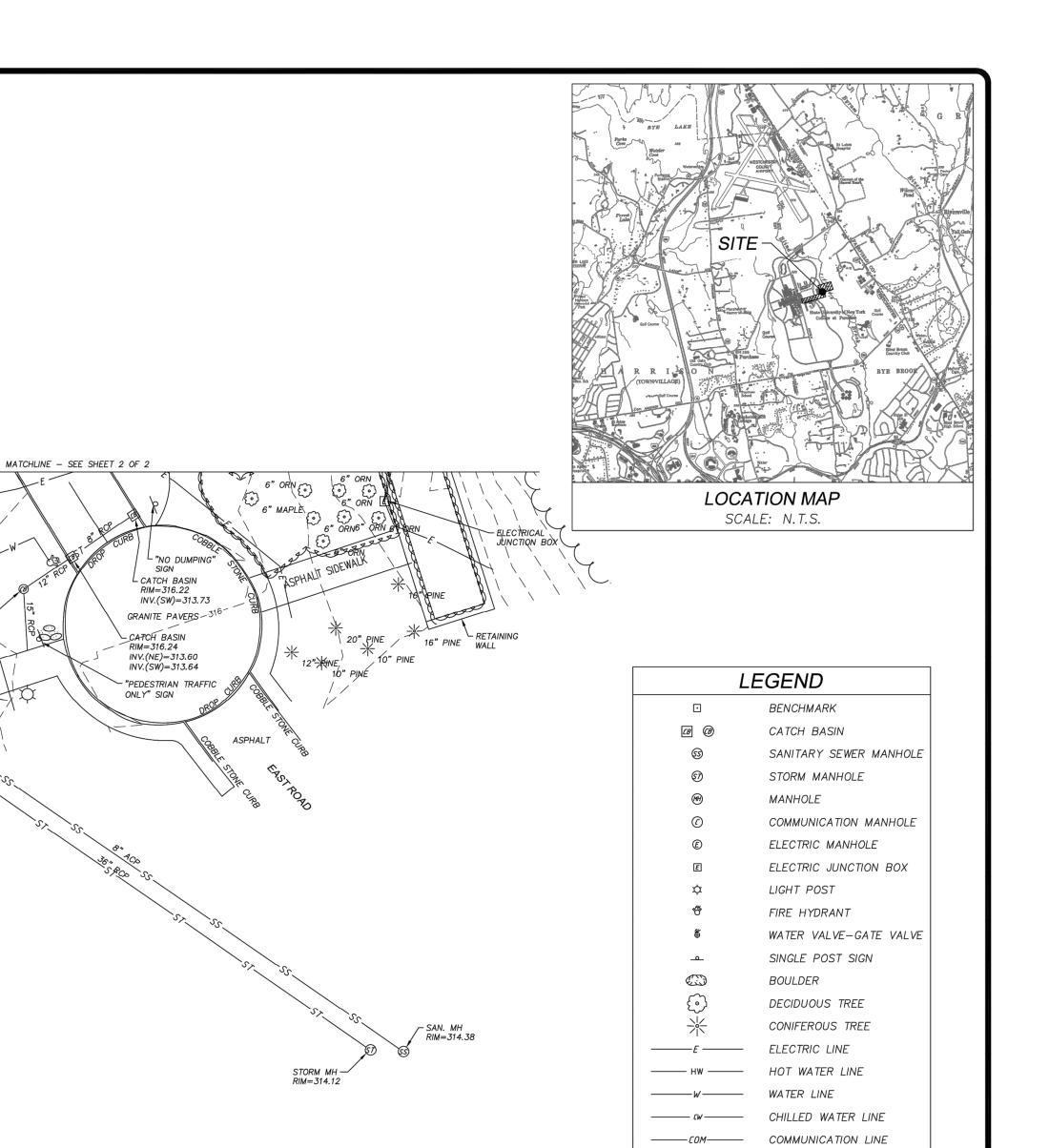
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ROJ. MANAGER: GMR HIEF DESIGNER: ESIGNED BY: RAWN BY: PEM HECKED BY: GMR			THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL, (I.E.) ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS "A" MISDEMEANOR.	
	DATE	DATE		



## **GENERAL NOTES:**

- 1. NORTH IS ORIENTED TO GRID NORTH FROM GPS OBSERVATION.
- 2. THE VERTICAL DATUM IS THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

------ST---------STORM SEWER LINE

UNKNOWN UTILITY LINE

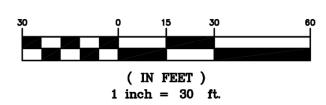
----- FO ------ FIBER OPTIC ------- T ------- TELEPHONE LINE

CATV CABLE TV

–o–o– HANDRAIL

STONE WALL WOODS LINE PLANTING BED BUILDING LINE

- 3. THE HORIZONTAL DATUM IS ON NORTH AMERICAN DATUM OF 1983, NEW YORK STATE PLANE EAST ZONE 3101.
- 4. CONTOUR INTERVAL = 1 FOOT.
- 5. INFORMATION SHOWN HEREON IS FROM A FIELD SURVEY COMPLETED BY MJ ENGINEERING AND LAND SURVEYING, PC ON DECEMBER 18, 2017.
- 6. UTILITIES SHOWN HEREON ARE BASED ON SURFACE MARKINGS PROVIDED BY BL COMPANIES, SURFACE EVIDENCE AND INFORMATION RECORDED DURING CONVENTIONAL SURVEY METHODS. THIS MAPPING DOES NOT PURPORT TO SHOW ALL UNDERGROUND UTILITIES ON SITE AND IS SUBJECT TO FIELD VERIFICATION.
- 7. UNAUTHORIZED ALTERATIONS OR ADDITION TO THIS SURVEY MAP IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW. COPIES OF THIS SURVEY MAP NOT BEARING THE LAND SURVEYORS SEAL AND SIGNED WITH RED INK SHALL NOT BE CONSIDERED TO BE VALID COPIES.





CATOH BASIN — RIM=316.07 INV.(S)=313.22 INV.(NE)=313.42

/ + 317.9

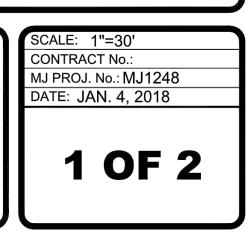
STORM MH RIM=319.01 INV.(SE)=309.11 INV.(SW)=309.76

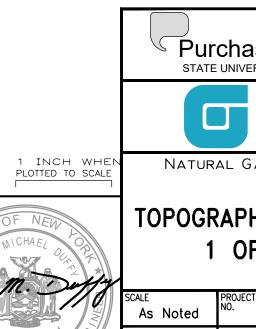
1533 Crescent Road - Clifton Park, NY 12065

# SUNY PURCHASE

# PARITAL TOPOGRAPHIC SURVEY

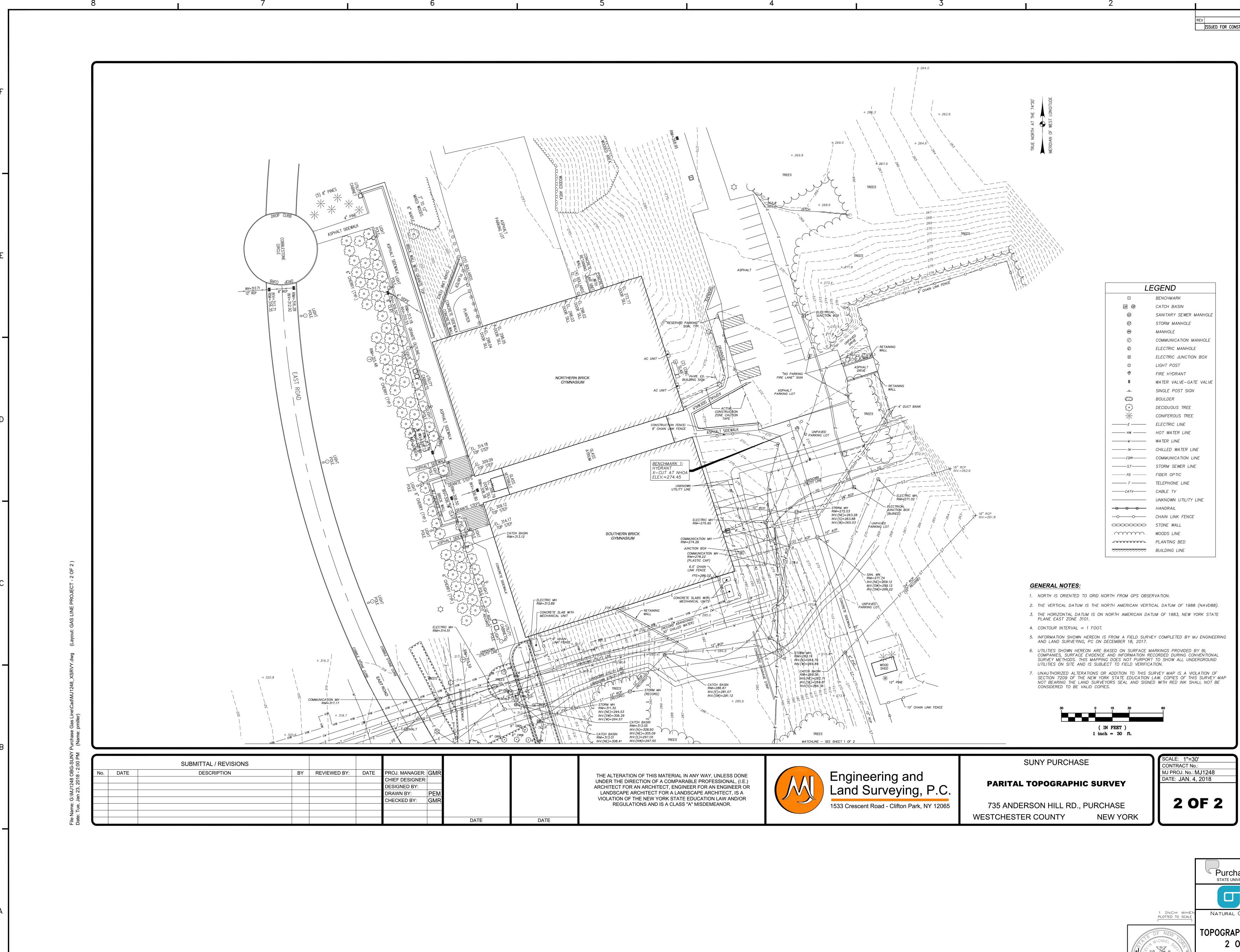
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