

**GENERAL NOTES**

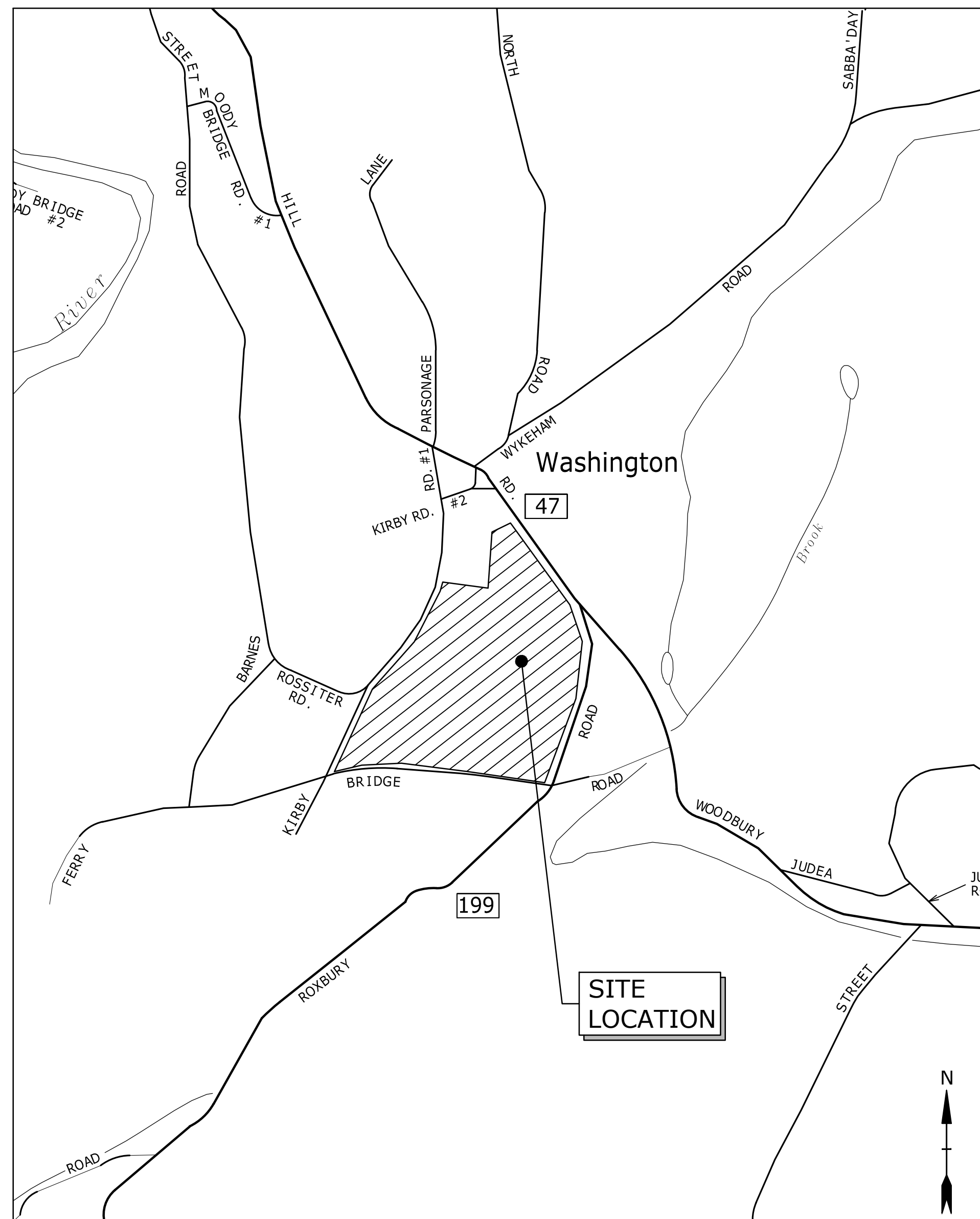
- UTILITY, STRUCTURE AND FACILITY LOCATIONS SHOWN HEREON WERE PLOTTED FROM INFORMATION SUPPLIED BY RESPECTIVE UTILITY COMPANIES AND DATA OBTAINED FROM FIELD SURVEYS AND AS-BUILT DRAWINGS. THE ACCURACY AND COMPLETENESS OF SUBSURFACE INFORMATION SHOWN ON THESE DRAWINGS IS NOT GUARANTEED. THE CONTRACTOR SHALL DETERMINE FOR HIMSELF, THE LOCATIONS AND ELEVATIONS OF ALL UTILITIES WHICH MAY AFFECT HIS CONSTRUCTION OPERATIONS. THE CONTRACTOR MUST ADEQUATELY PROTECT AND SUPPORT UTILITIES AND HE SHALL BE RESPONSIBLE FOR ALL DAMAGE INCURRED AT NO EXPENSE TO THE OWNER. ANYONE USING UTILITY INFORMATION AND DATA PROVIDED HEREIN SHALL CONTACT "CALL BEFORE YOU DIG", 1-800-922-4455 OR WWW.CBYD.COM, 72 HOURS IN ADVANCE TO VERIFY THE LOCATION OF UTILITIES PRIOR TO STARTING CONSTRUCTION.
- REFERENCE IS MADE TO PLAN ENTITLED TOPOGRAPHIC SURVEY SCIENCE BUILDING PROJECT THE FREDERICK GUNN SCHOOL, 22 KIRBY ROAD, WASHINGTON, CT DATED MAY 18, 2021, LATEST REVISION DECEMBER 14, 2021. PREPARED BY SMITH & COMPANY SURVEYORS & ENGINEERS, INC. 247 MAIN STREET SOUTH, WOODBURY, CT.
- IT IS THE RESPONSIBILITY OF EACH BIDDER IN EVALUATING THESE PLANS TO MAKE EXAMINATIONS IN THE FIELD BY VARIOUS METHODS AND OBTAIN NECESSARY INFORMATION FROM AVAILABLE RECORDS, UTILITY COMPANIES, AND INDIVIDUALS AS TO THE LOCATION OF SUBSURFACE STRUCTURES.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW ALL OF THE DRAWINGS AND SPECIFICATIONS ASSOCIATED WITH THIS PROJECT WORK SCOPE PRIOR TO THE INITIATION OF CONSTRUCTION. SHOULD THE CONTRACTOR FIND A CONFLICT WITH THE DOCUMENTS RELATIVE TO THE DRAWINGS, SPECIFICATIONS OR APPLICABLE CODES, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNER'S REPRESENTATIVE IN WRITING PRIOR TO THE START OF CONSTRUCTION. FAILURE BY THE CONTRACTOR TO NOTIFY THE OWNER'S REPRESENTATIVE 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 CODES.
- AT ALL LOCATIONS WHERE THE CONTRACTOR IS REQUIRED TO REMOVE EXISTING PAVEMENT AREAS (WHICH ARE NOT TO BE RECONSTRUCTED) FOR THE INSTALLATION OF THE PROPOSED UTILITIES, THE PAVEMENT SHALL BE REPAIRED AS SHOWN ON THE CONTRACT DRAWINGS OR IN ACCORDANCE WITH CITY OR STATE REQUIREMENTS AS APPLICABLE.
- AS CONSTRUCTION IS COMPLETED, THE CONTRACTOR SHALL REMOVE ALL EXCESS MATERIAL, DEBRIS, ETC. AND RESTORE OR REPLACE ANY DAMAGE TO LANDSCAPING.
- AREAS OUTSIDE THE PROJECT LIMIT LINE DISTURBED BY CONSTRUCTION SHALL BE RETURNED TO THEIR ORIGINAL CONDITION OR BETTER AND SHALL BE GRADED TO MEET PROPOSED CONSTRUCTION AS DIRECTED BY THE OWNER'S REPRESENTATIVE. COST FOR THIS WORK SHALL BE BORNE BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL PROCURE ALL THE NECESSARY PERMITS AND LICENSES, AT THE TIME REQUIRED, PAY ALL THE CHARGES AND FEES, AND GIVE NOTICES AS NECESSARY AND DUE IN CONNECTION WITH THE LAWFUL EXECUTION OF THE WORK AT NO ADDITIONAL COST TO THE OWNER.
- ALL UTILITY BOXES, FRAMES, AND GRATES, ETC. AFFECTED BY THE CONSTRUCTION ACTIVITIES SHALL BE RESET/RECONSTRUCTED TO THE PROPER GRADE. ALL COST RELATED TO SUCH WORK SHALL BE CONSIDERED INCLUDED IN THE BID PRICE.
- EXCAVATION OF ANY TYPE SHALL BE ACCOMPLISHED IN SUCH A MANNER THAT UNDERGROUND UTILITIES OR STRUCTURES ARE NOT DAMAGED. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY FOR ANY DAMAGES INCURRED DURING EXCAVATION OPERATIONS. ALL EXCAVATION SHALL BE IN CONFORMANCE WITH THE LATEST OSHA REQUIREMENTS.
- ALL DRIVEWAYS, ROADS, STAIRS, AND SIDEWALKS DISTURBED BY THE CONSTRUCTION IN OR OUTSIDE THE PROJECT LIMIT LINE SHALL BE RETURNED TO THEIR ORIGINAL CONDITION OR BETTER AND SHALL BE GRADED TO MEET THE PROPOSED CONSTRUCTION AS DIRECTED BY THE OWNER'S REPRESENTATIVE AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL SUFFICIENTLY COVER ALL DISTURBED AREAS AT THE END OF EACH WORK DAY TO AVOID ANY RISK OF INJURY TO PEDESTRIAN OR VEHICULAR TRAFFIC. THE CONTRACTOR SHALL INSTALL TEMPORARY SUPPORT SYSTEMS OVER TRENCH EXCAVATIONS THAT ARE TAMPER RESISTANT AND SAFE FOR VEHICULAR AND PEDESTRIAN TRAFFIC. THE CONTRACTOR SHALL INSTALL BARRICADES TO PROTECT AGAINST PEDESTRIAN ACCESS. THE CONTRACTOR SHALL OBTAIN APPROVAL OF THE TEMPORARY SAFETY MEASURES BY THE OWNER'S REPRESENTATIVE. ALL MAINTENANCE AND PROTECTION OF BOTH PEDESTRIAN AND VEHICULAR TRAFFIC ARE INCLUDED IN THE LUMP SUM BID PRICE FOR THIS PROJECT.
- THE STANDARD SPECIFICATIONS (FOR SITE /CIVIL WORK) SHALL BE THE STATE OF CONNECTICUT, DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS FOR ROADS, BRIDGES, AND INCIDENTAL CONSTRUCTION, FORM 818, 2020, INCLUDING ALL SUPPLEMENTS THERETO.
- ALL DISTURBED AREAS NOT PROVIDED WITH SPECIFIC SITE IMPROVEMENTS (PAVING, CONCRETE SIDEWALK, LANDSCAPING, ETC.) SHALL HAVE TOPSOIL INSTALLED AND TURF ESTABLISHED IN ACCORDANCE WITH THE PROJECT LANDSCAPE SPECIFICATIONS.
- THE CONTRACTOR SHALL RECORD THE LOCATIONS OF ALL UNDERGROUND UTILITIES INSTALLED OR FOUND DURING CONSTRUCTION. THE UTILITIES SHALL BE MEASURED FROM PERMANENT SURFACE FEATURES AND COMPILED BY THE CONTRACTOR ON RECORD DRAWINGS. AN AS-BUILT SURVEY, SHALL BE PREPARED BY A SURVEYOR LICENSED IN THE STATE OF CONNECTICUT SUBMITTED TO THE OWNER AND ENGINEER FOR REVIEW AND APPROVAL 2 WEEKS PRIOR TO APPLYING FOR CERTIFICATE OF OCCUPANCY.
- THE CONTRACTOR SHALL COMPLETE ALL WORK SO THAT ANY MATERIALS WHICH ARE TO REMAIN IN PLACE OR WHICH ARE TO REMAIN THE PROPERTY OF THE OWNER, WILL NOT BE DAMAGED. IF THE CONTRACTOR DAMAGES ANY MATERIALS WHICH ARE TO REMAIN, OR WHICH ARE TO REMAIN THE PROPERTY OF THE OWNER, THE DAMAGED MATERIALS SHALL BE REPLACED TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE AT THE EXPENSE OF THE CONTRACTOR.
- AFTER CONSTRUCTION IS COMPLETED, THE CONTRACTOR SHALL REMOVE ALL EXCESS MATERIAL, DEBRIS, EQUIPMENT, ETC. AND RESTORE OR REPAIR ANY DAMAGE TO LANDSCAPING AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
- THE CONTRACTOR SHALL ANTICIPATE IN HIS BID THAT THE AREA OF HIS PROPOSED WORK MAY BE ENCUMBERED BY UTILITY COMPANIES FOR THE REMOVAL/RELOCATION/ADJUSTMENT/CONSTRUCTION OF UTILITIES. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE REQUIRED NOTIFICATIONS. THE CONTRACTOR SHALL COORDINATE ALL ASPECTS OF HIS WORK WITH SAID UTILITY COMPANIES.
- THE CONTRACTOR SHALL EXCAVATE AND LEGALLY DISPOSE OF OFF-SITE ANY EXCESS PAVEMENT AND/OR BASE. THE COST FOR THIS WORK SHALL BE INCLUDED IN THE LUMP SUM BID FOR THE PROJECT AND AT NO ADDITIONAL COST TO THE OWNER.
- ALL PROPOSED WORK MAY BE VARIED IN THE FIELD BY THE OWNER'S REPRESENTATIVE TO MEET EXISTING CONDITIONS.

**STANDARD ABBREVIATIONS**

@	ABDN(D)	AT	ABANDON(ED)	INC	INCORPORATED
AC	ACRE/AIR CONDITIONING	AS	AS ORDERED BY THE ENGINEER	INV	INVERT
AOBE	AS ORDERED BY THE ENGINEER	AS	AS ORDERED BY THE ENGINEER	L	LENGTH OF CURVE
BSMT	BASEMENT	AS	AS ORDERED BY THE ENGINEER	LT	LEFT
BCLC	BITUMINOUS CONCRETE LIP CURBING	LOC	LOCATION	LP	LOCATION LIGHT POLE
BOW	BACK OF WALK	LP	LOCATION LIGHT POLE	MAX	MAXIMUM
BL	BASELINE	MIN	MINIMUM	MH	MANHOLE
BW	BOTTOM OF WALL	MH	MANHOLE	MISC	MISCELLANEOUS
BIT	BITUMINOUS	MON	MONUMENT	MON	MONUMENT
BC	BOTTOM OF CURB	NIC	NOT IN CONTRACT	N	NORTH
BLDG	BUILDING	N	NOT IN CONTRACT	CATV	CABLE TELEVISION
BOT	BOTTOM	NTS	NOT TO SCALE	N/A	NOT APPLICABLE
CATV	CABLE TELEVISION	N/F	NOW OR FORMERLY	OH	OVERHEAD
CIP	CAST IRON PIPE	PC	POINT OF CURVATURE	PCC	POINT OF COMPOUND CURVATURE
CB	CATCH BASIN	PCPP	PERFORATED CORRUGATED POLYETHYLENE	PCPP	PERFORATED CORRUGATED POLYETHYLENE
CL	CENTERLINE	PE	PEDESTRIAN	PE	PEDESTRIAN
CLF	CHAIN LINK FENCE	PI	POINT OF INTERSECTION	PT	POINT OF TANGENCY
CL&P	CONNECTICUT LIGHT & POWER	PT	POINT OF INTERSECTION	PRC	POINT OF REVERSE CURVATURE
CTDEEP	CONNECTICUT DEPT. OF ENERGY & ENV. PROTECTION	PS	PARKING SPACES	PVC	POLYVINYL CHLORIDE
CTDOT	CONNECTICUT DEPT. OF TRANSPORTATION	R	RADIUS	R	RADIUS
CONNDOT	CONNECTICUT DEPT. OF TRANSPORTATION	REV	REVISION	ROW	RIGHT OF WAY
CONC	CONCRETE	RT	RIGHT	SAN	SANITARY
CO	CLEAN-OUT	SCH	SCHEDULE	SF	SQUARE FEET
COP	CORRUGATED POLYETHYLENE PIPE	S	SOUTH	STA	STATION
CY	CUBIC YARDS	STD	STANDARD	STRM	STORM
DIP	DUCTILE IRON PIPE	T	TANGENT LENGTH/TEL-DATA	T	TANGENT LENGTH/TEL-DATA
DWG	DRAWING	TEL	TEL-DATA	TF	TOP OF FRAME
E	EAST/ELECTRIC	TF	TOP OF FRAME	TYP	TYPICAL
EOP	EDGE OF PAVEMENT	TC	TOP OF CURB	TW	TOP OF WALL
ELEC	ELECTRIC	TW	TOP OF WALL	W	WATER
EL/ELEV	ELEVATION	WG/WV	WATER GATE/VALVE	XFMR	TRANSFORMER
EMH	ELECTRIC MANHOLE	&	TRANSFORMER AND		
EX/EXIST	EXISTING				
EG	EXISTING GRADE				
FF	FIRST FLOOR				
G	GAS				
GEN	GENERATOR				
GG	GAS GATE				
GRC	GALVANIZED RIGID CONDUIT				
HC	HANDICAP				
HYD	HYDRANT				
IN	INCHES				

**LEGEND**

DESCRIPTION	EXISTING	PROPOSED
PROPERTY LINE	---	---
PROJECT LIMIT LINE	---	-----
MINOR CONTOUR	-----115-----	-----
MAJOR CONTOUR	-----120-----	-----
SPOT ELEVATION	+ 23.6	-----
TREES	(Tree Symbol)	-----
TREE LINE	(Wavy Line)	-----
EDGE OF PAVEMENT	-----	-----
CURB LINE	-----	CONC. CURB
RETAINING WALL	-----	-----
CONCRETE WALK	-----	-----
EXTERIOR STAIRS	-----	-----
BUILDING	(Hatched Area)	-----
FENCE	-----	-----
SIGN & SIGN POST	-----	-----
BOLLARD	-----	-----
PARKING PAINT LINE	-----	-----
STORM SEWER	-----	-----
STORM MANHOLE	(Circle with X)	(Circle with X)
CATCH BASIN	(Square)	(Square)
AREA DRAIN	-----	-----
SANITARY SEWER	-----	-----
SANITARY MANHOLE	(Circle with X)	(Circle with X)
SANITARY FORCE MAIN	-----	-----
WATER MAIN	W-----W	W-----W
WATER VALVE	WV	(Circle)
WATER SERVICE	-----	W-----
FIRE PROTECTION SERVICE	-----	FP-----
HYDRANT	(Hydrant Symbol)	(Hydrant Symbol)
GAS MAIN/SERVICE	-----	G-----
GAS GATE	GG	(Circle)
GAS METER	GM	(Square)
PRIMARY ELECTRIC SERVICE	-----	E-----
TRANSFORMER	-----	(Square)
TEL-DATA - BURIED	-----	T-----
OVERHEAD WIRES	-----	-----
CABLE TV	-----	CTV-----
UTILITY POLE	(Pole Symbol)	(Pole Symbol)
LIGHT POLE	(Pole Symbol)	(Pole Symbol)
TEST PIT	(Pole Symbol)	(Pole Symbol)



**LOCATION MAP**  
SCALE: 1" = 600'

**ZONING DATA TABLE - MAIN CAMPUS**

ZONE R1 - FARMING AND RESIDENTIAL DISTRICT WITH APPROXIMATELY 1/2 ACRE IN ZONE R2

TOTAL PARCEL ACREAGE: 21.7 ACRES ±

CHARACTERISTICS	REQUIREMENT	EXISTING	PROPOSED
ZONING SETBACKS:			
FRONT YARD	50'-0"	VARIES	PROJECT EXCEEDS 50'-0"
SIDE YARD	25'-0"	VARIES	90' ±
REAR YARD	25'-0"	VARIES	PROJECT EXCEEDS 25'-0"
MAXIMUM LOT COVERAGE:	10%	*30.30%	30.96%
MINIMUM GROUND FLOOR AREA:	600 SQUARE FEET	N/A	13,024 SQUARE FEET
MINIMUM LOT WIDTH:	200'-0"	*866'-0"	*866'-0"
MAXIMUM BUILDING HEIGHT:	MAX. MEAN HEIGHT: 35'-0" MAX. TOTAL VERTICAL HEIGHT: 40'-0" (MEASURED FROM AVERAGE PRE-EXISTING GRADE)	N/A	MEAN HEIGHT: 35'-0" TOTAL VERTICAL HEIGHT: 40'-0" (MEASURED FROM AVERAGE PRE-EXISTING GRADE)
PARKING REQUIREMENTS:	MIN: 1 SPACE PER 5 SEATS IN AUDITORIUM MAX: 1 SPACE PER 3 SEATS IN AUDITORIUM REQUIRED: 83-138 SPACES	*146 SPACES	146 SPACES
HANDICAP SPACES:	5 SPACES (INC. 1 VAN SPACE)	*5 SPACES (INC. 1 VAN SPACE)	*5 SPACES (INC. 1 VAN SPACE)
MAXIMUM DRIVEWAY WIDTH:	30'-0"	24'-0" ± WITHIN PROJECT LIMIT OF WORK	24'-0" ± WITHIN PROJECT LIMIT OF WORK

\* (APPROXIMATE BASED ON THE 2017 ZBA APPLICATION FOR THE THOMAS S. PERAKOS ARTS AND COMMUNITY CENTER)

**PARKING COUNT**

PARKING TYPE	QUANTITY (EXISTING)
*MAIN CAMPUS EXISTING PARKING	146
PARKING LOST	0
PROPOSED PARKING ADDED	0
NET GAIN	0
*TOTAL PROPOSED MAIN CAMPUS PARKING	146
*TOTAL PROPOSED MAIN CAMPUS ADA PARKING	5

\* (APPROXIMATE BASED ON THE 2017 ZBA APPLICATION FOR THE THOMAS S. PERAKOS ARTS AND COMMUNITY CENTER)



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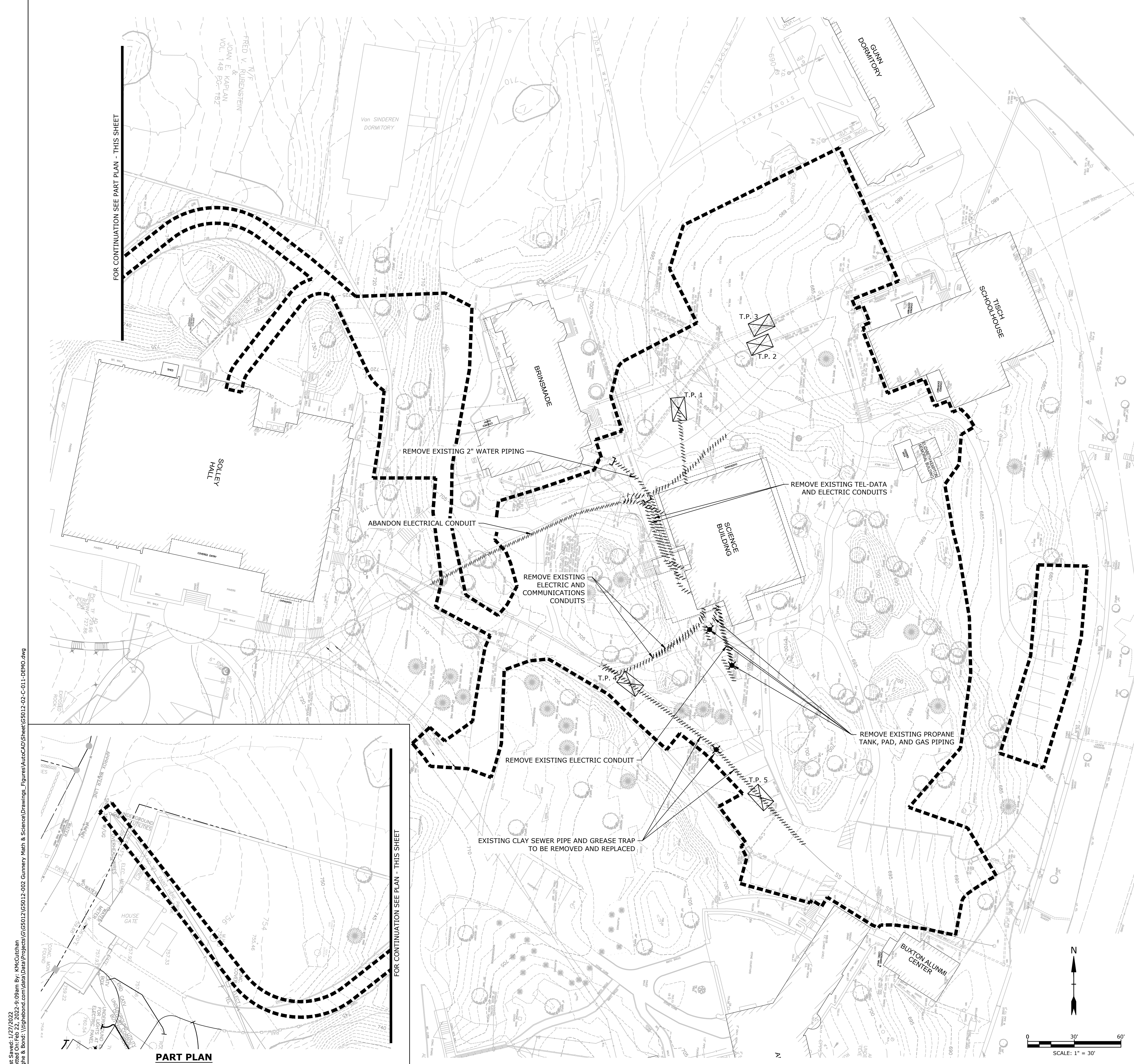


Project Title:  
**CENTER FOR INNOVATION AND ACTIVE CITIZENSHIP**  
SPECIAL PERMIT  
**THE FREDERICK GUNN SCHOOL**  
99 Green Hill Road  
Washington, CT 06793

Drawing Title:  
**GENERAL NOTES, ABBREVIATIONS, LEGEND AND LOCATION MAP**

Project No: **08323.00** Scale: **AS SHOWN**  
Drawn By: **AVC**  
Checked By: **KMM**  
Approved By: **CJC**  
Date: **01/24/22**

Drawing No. **C-001**

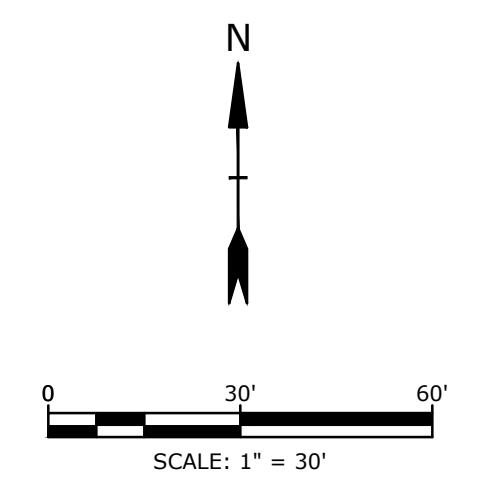


**SITE UTILITY DEMOLITION PLAN NOTES**

- UTILITY, STRUCTURE AND FACILITY LOCATIONS SHOWN HEREON WERE PLOTTED FROM INFORMATION SUPPLIED BY RESPECTIVE UTILITY COMPANIES AND DATA OBTAINED FROM FIELD SURVEYS AND AS-BUILT DRAWINGS. THE ACCURACY AND COMPLETENESS OF SUBSURFACE INFORMATION SHOWN ON THESE DRAWINGS IS NOT GUARANTEED. THE CONTRACTOR SHALL DETERMINE FOR HIMSELF, THE LOCATIONS AND ELEVATIONS OF ALL UTILITIES WHICH MAY AFFECT HIS CONSTRUCTION OPERATIONS. THE CONTRACTOR MUST ADEQUATELY PROTECT AND SUPPORT UTILITIES AND HE SHALL BE RESPONSIBLE FOR ALL DAMAGE INCURRED AT NO EXPENSE TO THE OWNER. ANYONE USING UTILITY INFORMATION AND DATA PROVIDED HEREIN SHALL CONTACT "CALL BEFORE YOU DIG", 1-800-922-4455 OR WWW.CBYD.COM, 72 HOURS IN ADVANCE TO VERIFY THE LOCATION OF UTILITIES PRIOR TO STARTING CONSTRUCTION.
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- THE CONTRACTOR SHALL OBTAIN A TOWN OF WASHINGTON EXCAVATION PERMIT PRIOR TO ANY WORK BEING PERFORMED WITHIN TOWN RIGHT-OF-WAY.
- ANY AND ALL WORK PERFORMED ON THE TOWN OF WASHINGTON RIGHT-OF-WAY SHALL BE REQUIRED TO MEET THE TOWN STANDARDS
- THE CONTRACTOR SHALL TAKE EXTREME CARE TO PROTECT ALL EXISTING STRUCTURES, SURFACE IMPROVEMENTS, LANDSCAPING, ETC. OUTSIDE THE PROJECT LIMIT LINE AND SHALL RESTORE ANY DAMAGE TO THESE ITEMS TO PRE-DAMAGE CONDITION OR BETTER.
- CONTRACTOR SHALL SAWCUT EXISTING PAVEMENT AND SIDEWALK AREAS AS REQUIRED BY THE CONTRACT DRAWINGS OR THE OWNER'S REPRESENTATIVE PRIOR TO THE START OF ANY EXCAVATION AND AT ALL LOCATIONS WHERE THE PROPOSED PAVEMENT/CONCRETE WALK MEET EXISTING PAVEMENT/CONCRETE WALK.
- CONTRACTOR TO DEMOLISH, REMOVE, AND LEGALLY DISPOSE OF MISCELLANEOUS POLES, BIT CONC PAVEMENT, CONCRETE WALK, SEWER, STORM, CURBING, CONCRETE FOUNDATIONS, SITE SIGNAGE NOT CALLED OUT TO BE REUSED, ETC. AND ALL ITEMS INDICATED TO BE REMOVED WITHIN THE PROJECT LIMIT LINE.
- THE CONTRACTOR SHALL PROTECT EXISTING UTILITY STRUCTURES NOT IDENTIFIED FOR REMOVAL DURING UTILITY AND SURFACE DEMOLITION OPERATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE INCURRED TO EXISTING UTILITY STRUCTURES AND SHALL REPAIR OR REPLACE THE EXISTING UTILITY STRUCTURES TO PRE-DAMAGED CONDITION OR BETTER TO THE SATISFACTION OF THE OWNER AND AT NO ADDITIONAL COST TO THE OWNER.
- THE PLAN IS PROVIDED TO SHOW THE GENERAL EXTENT OF THE SITE UTILITY REMOVAL AND DEMOLITION. NOT ALL ITEMS REQUIRING REMOVAL MAY BE SHOWN OR CALLED OUT. THE CONTRACTOR IS RESPONSIBLE TO REMOVE AND PROPERLY DISPOSE OF ALL ITEMS ON THE SITE (ABOVE GROUND OR BELOW GROUND) WHICH ARE NOT REQUIRED TO BE SAVED OR PROTECTED AND WHICH WILL NOT BE INCORPORATED INTO THE FINAL CONSTRUCTION.
- UNLESS OTHERWISE NOTED ON THE PLANS, REMOVAL OF EXISTING BITUMINOUS CONCRETE PAVEMENT SHALL INCLUDE REMOVAL OF THE PAVEMENT BASE COARSE, AND ALL ADJACENT CURBING.
- THE PROVISIONS OF WORKER SAFETY AND/OR HEALTH PROTOCOLS THAT ADDRESS COMPLIANCE WITH THE RULES, LAWS AND REGULATIONS PERTAINING TO CONSTRUCTION SAFETY AND/OR THE POTENTIAL AND/OR ACTUAL RISK OF EXPOSURE TO SITE SPECIFIC PHYSICAL OR CHEMICAL HAZARDS POSED TO THE CONTRACTOR'S EMPLOYEES IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR. REFER TO APPLICABLE HEALTH AND SAFETY SPECIFICATIONS
- PRIOR TO DEMOLITION WORK OF ANY UTILITY COMPANY, THE CONTRACTOR SHALL CONTACT THE RESPECTIVE UTILITY COMPANY. THE CONTRACTOR SHALL COORDINATE ANY REMOVAL OF EXISTING UTILITIES WITH THE RESPECTIVE UTILITY COMPANY.
- CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES NOT IDENTIFIED FOR REMOVAL OR ABANDONMENT. COORDINATE WITH PROPOSED UTILITY AND STORMWATER MANAGEMENT WORK, SEE SHEETS C-101 AND C-102.
- ACTUAL SAWCUT LIMITS, PAVEMENT/CONCRETE REMOVAL AND REPLACEMENT, SHALL BE DETERMINED IN THE FIELD PRIOR TO CONSTRUCTION. SAWCUT, REMOVAL, AND REPLACEMENT LIMITS SHALL COINCIDE WITH THE NEAREST JOINT IN CONCRETE WALK REQUIRED TO INSTALL THE PROPOSED WORK.
- ALL ITEMS IDENTIFIED FOR REMOVAL/DEMOLITION SHALL BE DISPOSED OF LEGALLY OFF-SITE. ALL COSTS SHALL BE INCLUDED IN THE LUMP SUM BID PRICE.
- CONTRACTOR TO COMPLY WITH THE REQUIREMENTS FOR EROSION AND SEDIMENTATION CONTROL, SEE C-201 AND C-202.
- THE CONTRACTOR SHALL MAINTAIN SANITARY SEWER FLOWS BY PUMPING OR OTHER MEANS APPROVED BY THE OWNER'S REPRESENTATIVE DURING CONSTRUCTION OF THE PROPOSED SANITARY SEWER IN LOCATIONS WHERE SEWERS ARE BEING INSTALLED, REPLACED OR RELOCATED.

**SITE UTILITY DEMOLITION PLAN LEGEND:**

- REMOVE EXISTING UTILITY STRUCTURE/TREE
- ABANDON STRUCTURE
- CUT AND CAP PIPE
- PROJECT LIMIT LINE
- TEST PIT T.P. #
- ABANDON EXISTING UTILITY PIPE
- REMOVE EXISTING UTILITY PIPE



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No.	Description	Date
<b>DWG ISSUE &amp; REVISION HISTORY</b>		
Stamp		

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 SPECIAL PERMIT  
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 99 Green Hill Road  
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Drawing Title:  
**SITE UTILITY DEMOLITION PLAN**

Project No: **08323.00** Scale: **1" = 30'**  
 Drawn By: **AVC**  
 Checked By: **KMM**  
 Approved By: **CJC**  
 Date: **01/24/22**

Drawing No. **C-011**

Last Saved: 1/27/2022 9:09am By: KMcCutchan  
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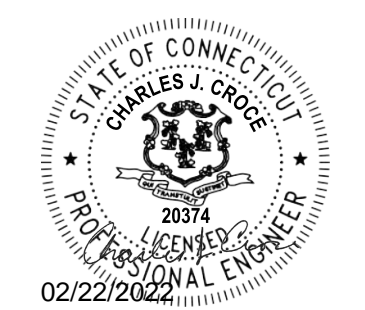
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- ANY AND ALL WORK PERFORMED ON THE TOWN OF WASHINGTON RIGHT-OF-WAY SHALL BE REQUIRED TO MEET THE TOWN STANDARDS.
- THE LOCATIONS OF ITEMS NOT DIMENSIONED ON THE DRAWINGS SHALL BE FIELD STAKED BY THE CONTRACTOR AND THEIR LOCATIONS APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
- THE CONTRACTOR SHALL COORDINATE/VERIFY THE EXACT SIZES, LOCATIONS, ELEVATIONS, OF ALL PROPOSED BUILDING'S UTILITY SERVICES WITH THE PROJECT MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS PRIOR TO ANY CONSTRUCTION OPERATIONS.
- THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THE WORK DONE BY THE RESPECTIVE UTILITY COMPANIES.
- INSTALL CLEANOUT TO GRADE 5' OFF FACE OF BUILDING ON ALL SANITARY LATERALS.
- THE MANHOLE FRAME AND COVER SHALL BE CENTERED ON THE PRECAST OPENING. UNDER NO CIRCUMSTANCES WILL AN OFFSET FRAME AND COVER BE ACCEPTABLE. PRIOR TO FINAL PAVING, THE CONTRACTOR SHALL CHECK ALL MANHOLE STRUCTURES TO ASSURE THE FRAME AND COVER IS CENTERED ON THE PRECAST OPENING PRIOR TO FINAL PAVING OR SURFACE TREATMENT INSTALLATION. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL WORK REQUIRED TO CENTER FRAME AND COVER.
- INSTALL "FERNCO" STYLE FLEXIBLE COUPLINGS AT ALL LOCATIONS WHERE JOINING PIPES OF DIFFERENT MATERIALS AND/OR SIZES PER MANUFACTURER'S RECOMMENDATIONS.
- THE CONTRACTOR SHALL MAINTAIN EXISTING SANITARY SEWER FLOWS BY PUMPING OR OTHER MEANS APPROVED BY THE OWNER'S REPRESENTATIVE DURING CONSTRUCTION OF THE PROPOSED SANITARY SEWER IN LOCATIONS WHERE SANITARY SEWER ARE BEING INSTALLED, REPLACED OR RELOCATED.
- SITE ELECTRICAL, EMERGENCY POWER, TEL-DATA, AND CABLE SERVICES ARE SHOWN FOR COORDINATION PURPOSES ONLY. FOR DESIGN AND SPECIFICATIONS OF THESE SERVICES INCLUDING ALL WIRING, EQUIPMENT, CONDUITS, HANDHOLES, MANHOLES, TESTING AND ACCEPTANCE, ETC. SEE PROJECT MECHANICAL/ELECTRICAL/PLUMBING DRAWINGS AND SPECIFICATIONS.
- SITE ELECTRICAL WORK SHALL CONFORM TO EVERSOURCE ENERGY STANDARDS AND REQUIREMENTS. CONTRACTOR SHALL COORDINATE ALL WORK WITH THE SCHOOL AND EVERSOURCE.
- DISTURBED AREAS FOR INSTALLATION OF ELECTRICAL CONDUITS OUTSIDE OF THE LIMIT OF RESTORATION AS SHOWN ON THE LANDSCAPE DRAWINGS SHALL BE REPLACED-IN-KIND, RETURNED TO THEIR ORIGINAL CONDITION OR BETTER AS DIRECTED BY THE OWNER'S REPRESENTATIVE.

No.	Description	Date
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#### DWG ISSUE & REVISION HISTORY

Stamp



Project Title:

**CENTER FOR INNOVATION  
AND ACTIVE CITIZENSHIP  
SPECIAL PERMIT**

**THE FREDERICK GUNN SCHOOL  
99 Green Hill Road  
Washington, CT 06793**

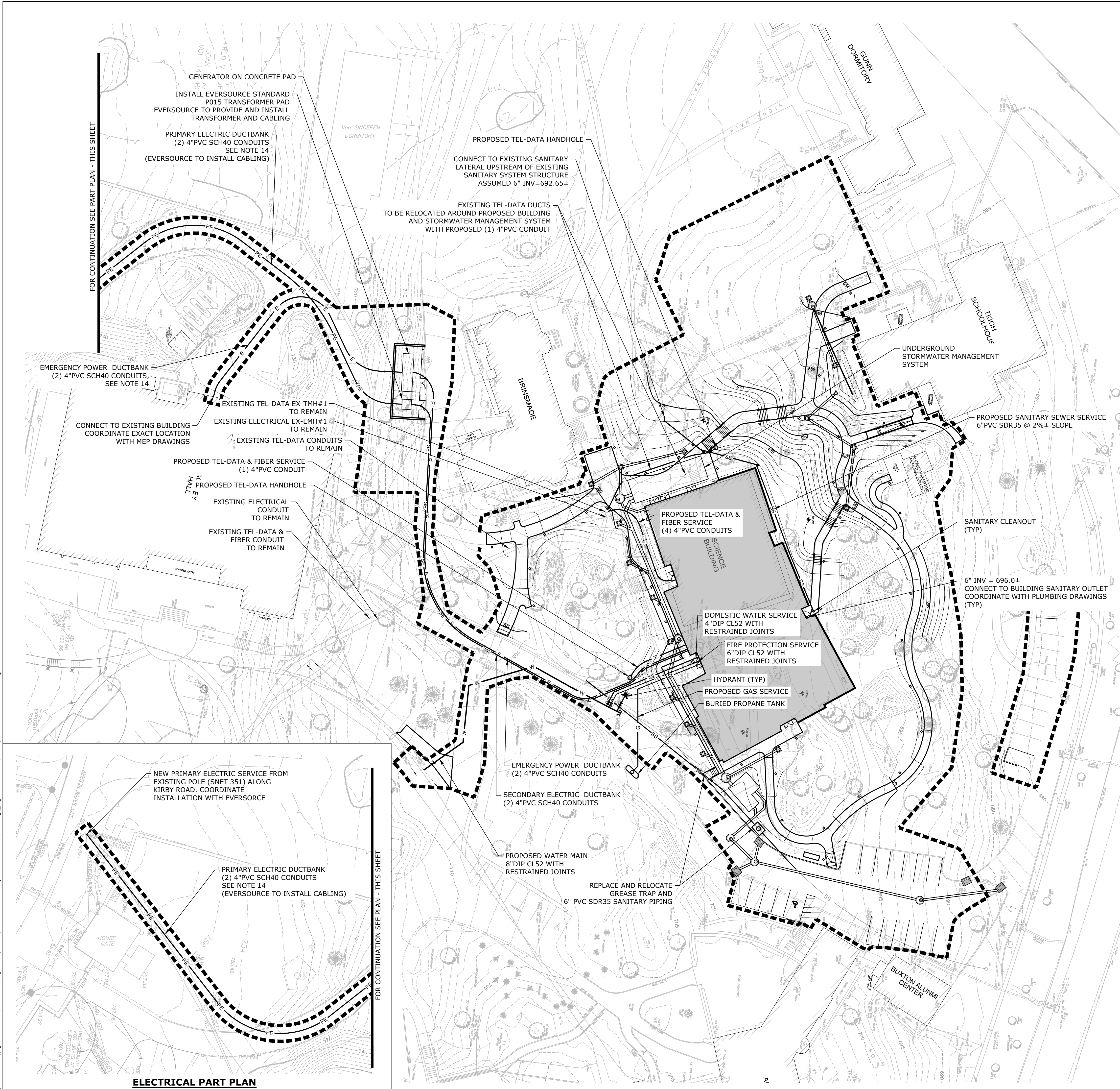
Drawing Title:

**SITE UTILITY PLAN**

Project No: **08323.00** Scale: **1" = 30'**  
 Drawn By: **AVC**  
 Checked By: **KMM**  
 Approved By: **CJC**  
 Date: **01/24/22**

Drawing No.

**C-101**

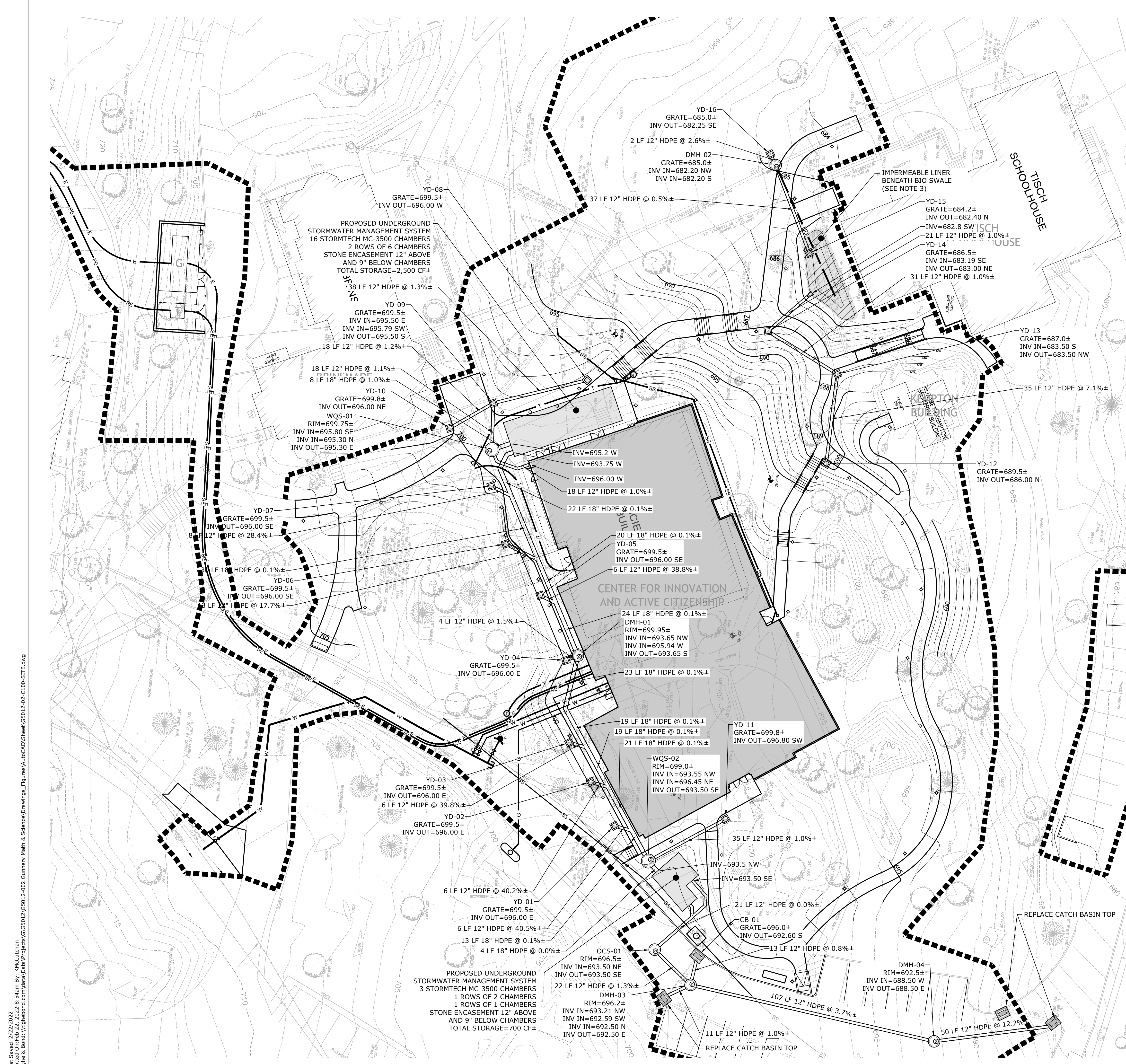


Last Saved: 2/22/2022  
 Plotted On: Feb 22, 2022 8:59am By: KKC/Cutchan  
 Tighe & Bond: \\tighetbond.com\data\Projects\GIS\0512\0512-002\_Gummy Math & Science\Drawings\_Figures\AutoCAD\Sheet\G5012-02-C100-SITE.dwg

**ELECTRICAL PART PLAN**

FOR CONTINUATION SEE PART PLAN - THIS SHEET

FOR CONTINUATION SEE PART PLAN - THIS SHEET



**SITE STORMWATER MANAGEMENT PLAN NOTES**

- UTILITY, STRUCTURE AND FACILITY LOCATIONS SHOWN HEREON WERE PLOTTED FROM INFORMATION SUPPLIED BY RESPECTIVE UTILITY COMPANIES AND DATA OBTAINED FROM FIELD SURVEYS AND AS-BUILT DRAWINGS. THE ACCURACY AND COMPLETENESS OF SUBSURFACE INFORMATION SHOWN ON THESE DRAWINGS IS NOT GUARANTEED. THE CONTRACTOR SHALL DETERMINE FOR HIMSELF, THE LOCATIONS AND ELEVATIONS OF ALL UTILITIES WHICH MAY AFFECT HIS CONSTRUCTION OPERATIONS. THE CONTRACTOR MUST ADEQUATELY PROTECT AND SUPPORT UTILITIES AND HE SHALL BE RESPONSIBLE FOR ALL DAMAGE INCURRED AT NO EXPENSE TO THE OWNER. ANYONE USING UTILITY INFORMATION AND DATA PROVIDED HEREIN SHALL CONTACT "CALL BEFORE YOU DIG", 1-800-922-4455 OR WWW.CBYD.COM, 72 HOURS IN ADVANCE TO VERIFY THE LOCATION OF UTILITIES PRIOR TO STARTING CONSTRUCTION.
- ALL ON-SITE STORM SEWER PIPES AND FITTINGS SPECIFIED AS HDPE SHALL BE ADS N-12 WT (WATERTIGHT) PIPE AS MANUFACTURED BY ADVANCED DRAINAGE SYSTEMS, HILLIARD, OHIO UNLESS OTHERWISE NOTED.
- BIO SWALE IMPERMEABLE LINER SHALL CONSIST OF A PVC LINER INSTALLED BETWEEN A PROTECTIVE LAYER OF NON-WOVEN GEOTEXTILE UNDERLAYMENT AND OVERLAYMENT. THE PVC LINER SHALL BE 30 MILS THICK (MIN) AS SUPPLIED BY R.H. MOORE & ASSOCIATES, OR APPROVED EQUAL. THE LINER SHALL BE INSTALLED AS ONE CONTINUOUS SHEET, OR SEAMS SHALL BE WELDED/TAPPED PER MANUFACTURER'S RECOMMENDATIONS. GEOTEXTILE SHALL BE 0801T NONWOVEN GEOTEXTILE AS SUPPLIED BY ADS GEOSYNTHETICS, OR APPROVED EQUAL. THE CONTRACTOR SHALL TAKE PRECAUTION WHEN INSTALLING THE LINER, WHEN BACKFILLING ABOVE THE LINER, AND WHEN WORKING IN CLOSE PROXIMITY TO THE LINER AFTER INSTALLATION, IN ORDER TO PROTECT THE LINER FROM PUNCTURES OR OTHER DAMAGE. SEE PROJECT LANDSCAPE ARCHITECTURE DRAWINGS AND SPECIFICATIONS FOR BIO SWALE DETAILS.
- SEE SHEET C-001 FOR GENERAL NOTES, AND SHEET C-101 FOR ADDITIONAL UTILITY NOTES.



64 PLEASANT STREET WATERTOWN MA 02472 USA  
P 017 926 9300 F 017 924 2748 W SASAKI.COM

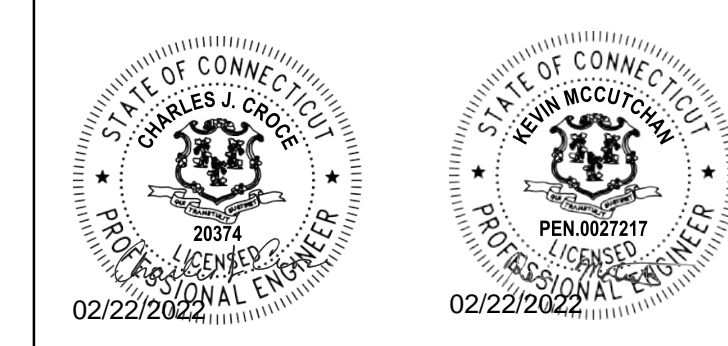


**Tighe & Bond**

213 Court Street  
Suite 1100  
Middletown, CT 06457  
(860) 704-4760

No.	Description	Date
DWG ISSUE & REVISION HISTORY		

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Project Title:

**CENTER FOR INNOVATION AND ACTIVE CITIZENSHIP**  
SPECIAL PERMIT

**THE FREDERICK GUNN SCHOOL**  
99 Green Hill Road  
Washington, CT 06793

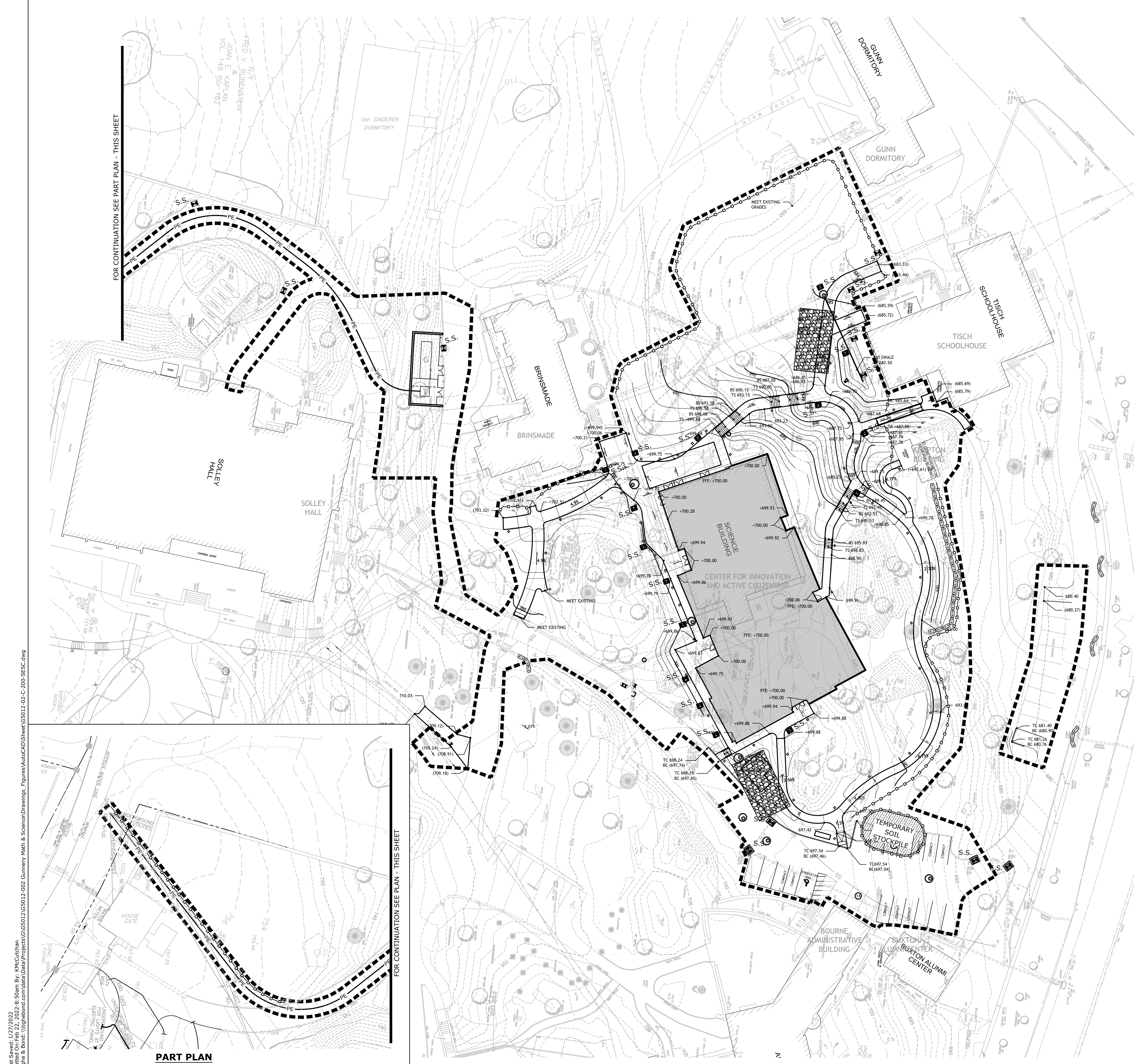
Drawing Title:

**SITE STORMWATER MANAGEMENT PLAN**

Project No: **08323.00** Scale: 1" = 20'  
Drawn By: **AVC**  
Checked By: **KMM**  
Approved By: **CJC**  
Date: **01/24/22**

Drawing No. **C-102**

Last Saved: 2/22/2022  
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 Tighe & Bond: \\tighetbond.com\data\Projects\GIS\0512\0512-002\_Gummary Math & Science Drawings\_Figures\AutoCAD\Sheet\0512-02\_C100-SITE.dwg

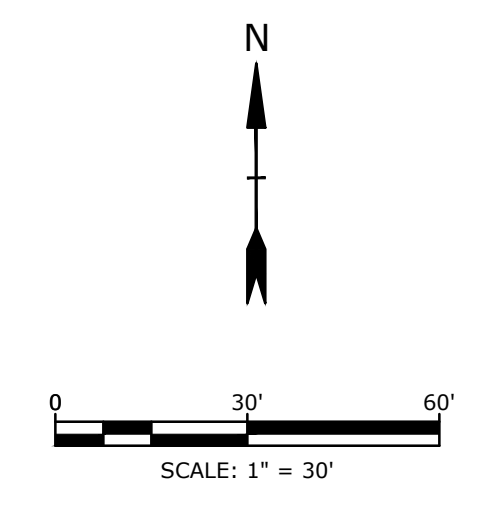


**SOIL EROSION AND SEDIMENTATION CONTROL NOTES**

- UNDERGROUND UTILITIES, STRUCTURES AND FACILITY LOCATIONS DEPICTED HEREON HAVE BEEN COMPILED, IN PART, FROM RECORD MAPPING AND OTHER DATA SUPPLIED BY THE RESPECTIVE UTILITY COMPANIES, GOVERNMENTAL AGENCIES AND/OR OTHER SOURCES. THESE LOCATIONS MUST BE CONSIDERED APPROXIMATE IN NATURE. ADDITIONALLY, OTHER SUCH DATA MAY EXIST ON SITE, THE EXISTENCE OF WHICH ARE UNKNOWN TO TIGHE & BOND. THE EXISTENCE, SIZE AND LOCATION OF ALL SUCH FEATURES MUST BE DETERMINED AND VERIFIED IN THE FIELD BY APPROPRIATE AUTHORITIES PRIOR TO CONSTRUCTION @ CALL-BEFORE-YOU-DIG 1-800-922-4455.
- ALL SEDIMENTATION AND EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE "2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL" DEEP BULLETIN NO 34, AND ALL AMENDMENTS AND ADDENDA THERETO AS PUBLISHED BY THE CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION.
- LAND DISTURBANCE SHALL BE KEPT TO THE MINIMUM NECESSARY FOR CONSTRUCTION.
- ALL EROSION CONTROL MEASURES SHALL BE INSTALLED AS SHOWN ON THE PLANS AND ELSEWHERE AS ORDERED BY THE OWNER'S REPRESENTATIVE.
- ALL CATCH BASINS SHALL BE PROTECTED WITH SILT SACKS, HAYBALE RING, SILT FENCE OR BLOCK AND STONE INLET PROTECTION THROUGHOUT THE CONSTRUCTION PERIOD AND UNTIL ALL DISTURBED AREAS ARE THOROUGHLY STABILIZED.
- WHEREVER POSSIBLE, EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO CONSTRUCTION.
- ADDITIONAL CONTROL MEASURES SHALL BE INSTALLED DURING CONSTRUCTION PERIOD AS ORDERED BY THE OWNER'S REPRESENTATIVE.
- ALL SEDIMENTATION AND EROSION CONTROL MEASURES SHALL BE MAINTAINED IN EFFECTIVE CONDITION THROUGHOUT THE CONSTRUCTION PERIOD.
- SEDIMENT REMOVED SHALL BE DISPOSED OF LEGALLY OFFSITE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION AND MAINTENANCE OF ALL EROSION CONTROL MEASURES THROUGHOUT THE CONSTRUCTION PERIOD.
- THE CONTRACTOR SHALL MAINTAIN A SUPPLY OF SILT FENCE/HAYBALES AND ANTI-TRACKING CRUSHED STONE ON-SITE FOR EMERGENCY REPAIRS.
- THE CONTRACTOR SHALL UTILIZE APPROVED METHODS/MATERIALS FOR PREVENTING THE BLOWING AND MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES ONTO ADJACENT PROPERTIES AND SITE AREAS.
- ALL DRAINAGE STRUCTURES SHALL BE INSPECTED WEEKLY BY THE CONTRACTOR AND CLEANED TO PREVENT THE BUILD-UP OF SILT.
- THE CONTRACTOR SHALL CAREFULLY COORDINATE THE PLACEMENT OF EROSION CONTROL MEASURES WITH THE PHASING OF CONSTRUCTION.
- KEEP ALL PAVED ROADWAYS CLEAN. SWEEP BEFORE FORECASTED STORMS OR WEEKLY AS NECESSARY.
- TREAT ALL UNPAVED SURFACES WITH 4" MINIMUM OF TOPSOIL AND SEEDING PRIOR TO FINAL STABILIZATION.
- HAYBALE BARRIERS AND SILT FENCING SHALL BE INSTALLED ALONG THE TOE OF CRITICAL CUT AND FILL SLOPES AS SHOWN ON THE PLANS AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
- ALL TRUCKS LEAVING THE SITE MUST BE COVERED.
- DISTURBED SLOPES SHALL BE TREATED WITH AN EROSION CONTROL SLURRY CONSISTING OF A MIXTURE OF WOOD FIBER MULCH, PLANT SEED AND 3 GALLONS/ACRE OF SILT STOP 640 LIQUID FLOCCULENT. THE FLOCCULENT IS PROVIDED BY HYDROGRASS TECHNOLOGIES, OXFORD MASSACHUSETTS.
- ALL SEDIMENTATION AND EROSION CONTROLS SHALL BE CHECKED WEEKLY AND AFTER EACH RAINFALL EVENT. NECESSARY REPAIRS SHALL BE MADE WITHOUT DELAY.
- PRIOR TO ANY FORECASTED RAINFALL, EROSION AND SEDIMENT CONTROLS SHALL BE INSPECTED AND REPAIRED AS NECESSARY.
- AFTER ALL DISTURBED AREAS HAVE BEEN STABILIZED, EROSION CONTROLS MAY BE REMOVED ONCE AUTHORIZATION TO DO SO HAS BEEN SECURED FROM THE OWNER'S REPRESENTATIVE. DISTURBED AREAS SHALL BE SEEDED AND MULCHED.
- ALL EMBANKMENT SLOPES 3:1 OR GREATER TO BE STABILIZED WITH EROSION CONTROL BLANKET, NORTH AMERICAN GREEN SC150BN OR APPROVED EQUIVALENT, UNLESS OTHERWISE NOTED ON THE PLANS.
- ALL DRAINAGE SWALES SHALL BE STABILIZED WITH EROSION CONTROL BLANKET, NORTH AMERICAN GREEN C125BN OR APPROVED EQUIVALENT.
- CONTRACTOR IS TO COMPLY WITH THE REQUIREMENTS OF THE SOIL EROSION AND SEDIMENTATION CONTROL PLAN.
- COORDINATE WITH LANDSCAPE PLANS FOR SITE DEMOLITION.
- AREA OF SITE DISTURBANCE = 2.5 ACRES

**SOIL EROSION AND SEDIMENT CONTROL PLAN LEGEND**

- SILT SACK S.S.
- CONSTRUCTION ENTRANCE
- SILT FENCE
- HAYBALE BARRIER
- TEMPORARY SOIL STOCKPILE AREA



**Tighe & Bond**  
 213 Court Street  
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 (860) 704-4760

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DWG ISSUE & REVISION HISTORY		



Project Title:  
**CENTER FOR INNOVATION AND ACTIVE CITIZENSHIP**  
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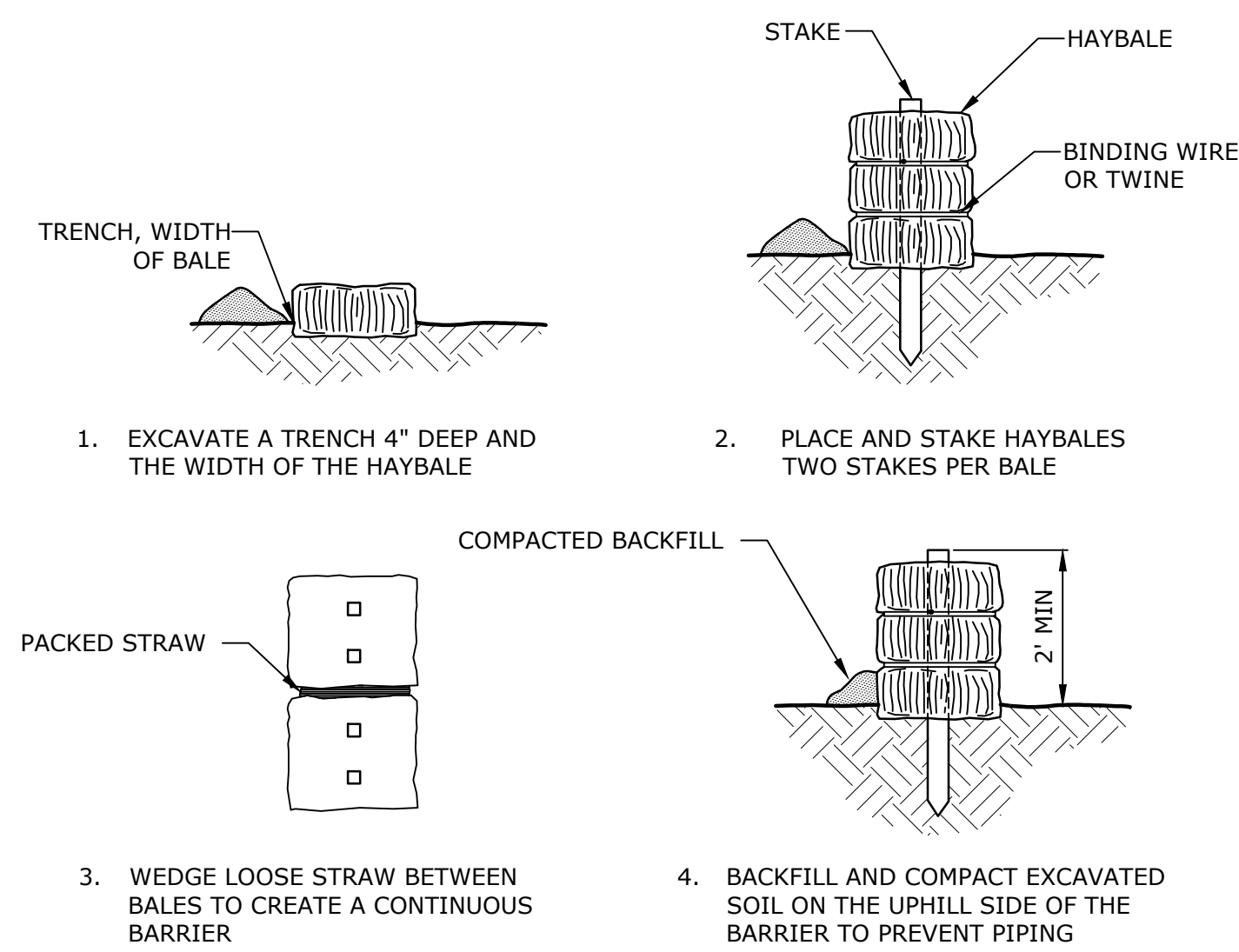
**THE FREDERICK GUNN SCHOOL**  
 99 Green Hill Road  
 Washington, CT 06793

Drawing Title:  
**SOIL EROSION & SEDIMENTATION CONTROL PLAN**

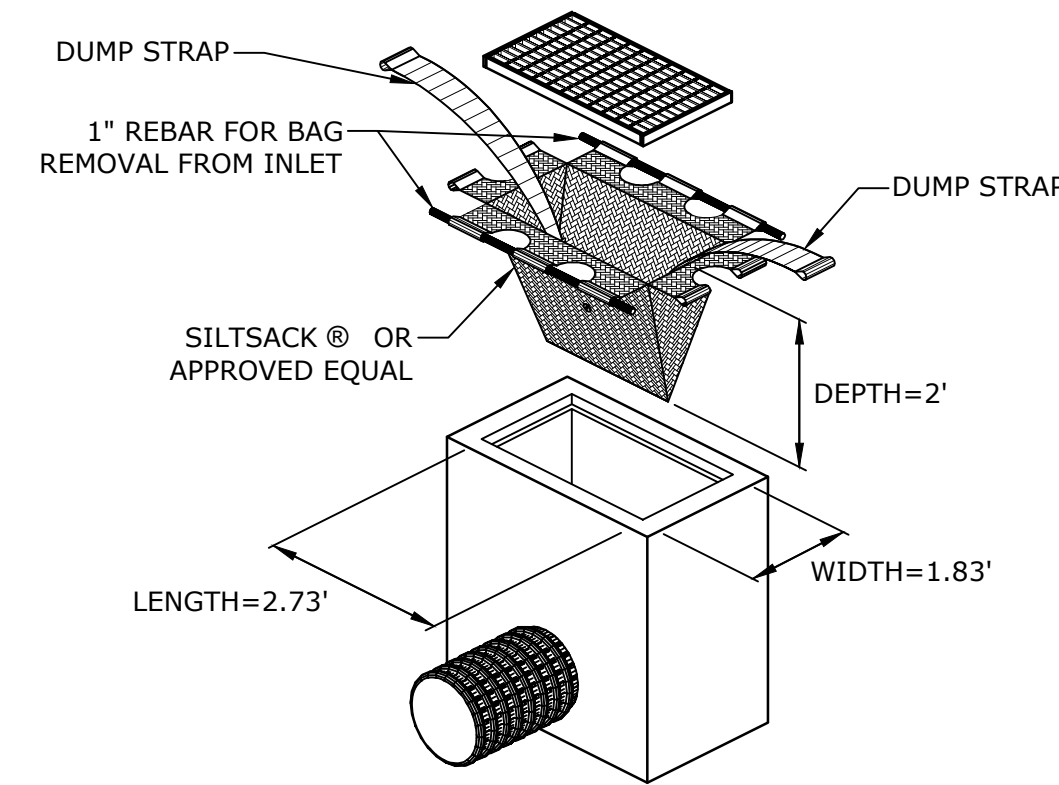
Project No: **08323.00** Scale: **1" = 30'**  
 Drawn By: **AVC**  
 Checked By: **KMM**  
 Approved By: **CJC**  
 Date: **01/24/22**

Drawing No. **C-201**

Last Saved: 1/27/2022  
 Plotted On: Feb 22, 2022 8:50am By: KMcCutchan  
 Tighe & Bond: \\tighetbond.com\data\Projects\GIS\GIS012\GIS012-002\_Gummary Math & Science\Drawings\_Figures\AutoCAD\Sheet\GIS012-02\_C-201-SESC.dwg

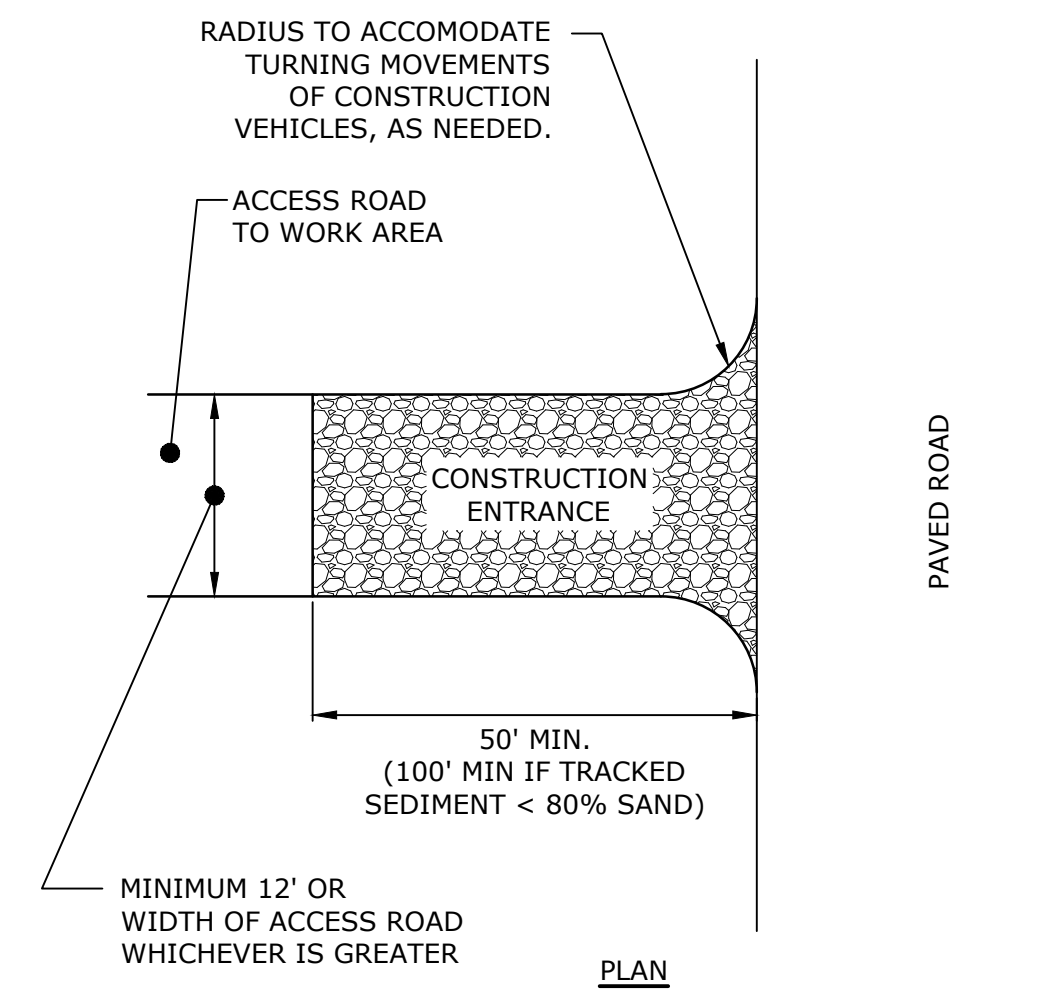


**PLACEMENT AND CONSTRUCTION OF HAYBALE BARRIER**  
NO SCALE

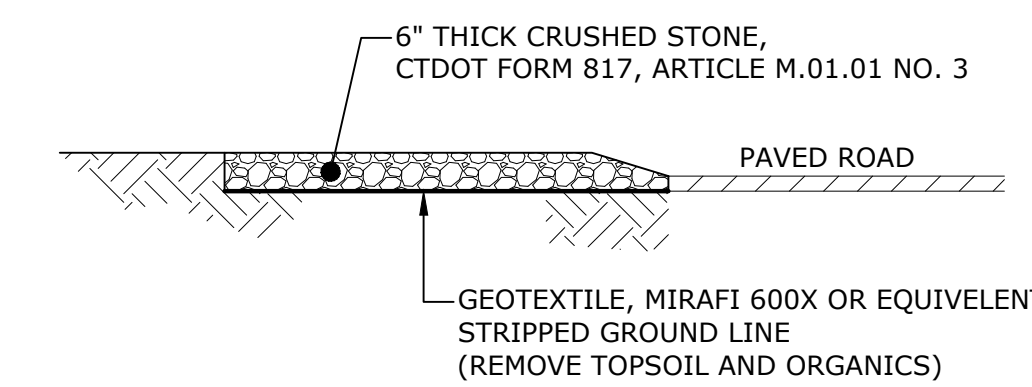


SILTSACK MANUFACTURED BY:  
ACF ENVIRONMENTAL  
2831 CARDWELL ROAD  
RICHMOND, VIRGINIA 23237

**SILTSACK®**  
NO SCALE

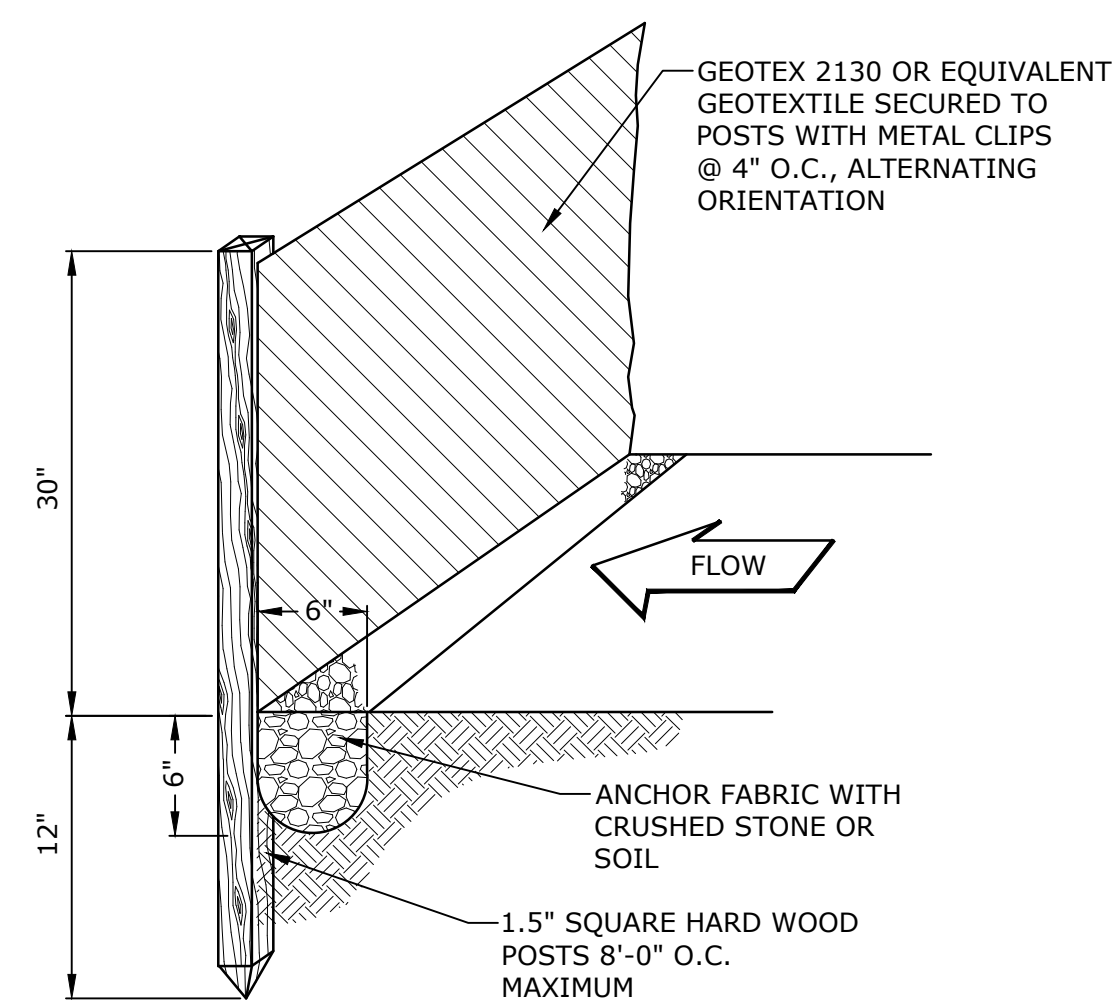


**PLAN**

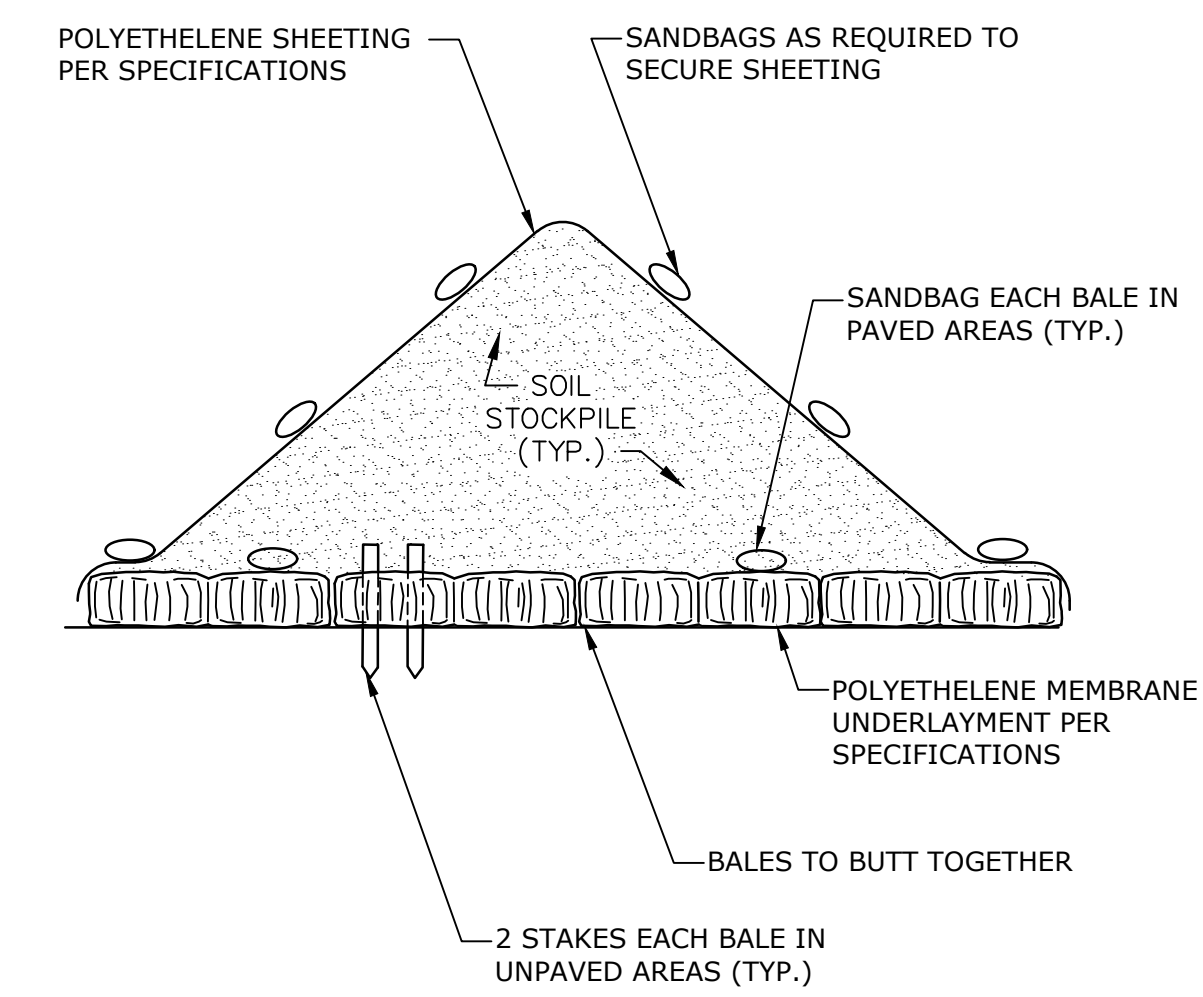


**ELEVATION**

**CONSTRUCTION ENTRANCE**  
NO SCALE



**SILT FENCE**  
NO SCALE



**INSTALLATION NOTES:**

1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 1:2.
3. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH EITHER SILT FENCING OR STRAWBALES..

**TEMPORARY CONTROLLED SOIL STOCKPILE**  
NO SCALE

**SASAKI**

84 PLEASANT STREET WATERTOWN MA 02472 USA  
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**Tighe & Bond**

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Suite 1100  
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No.	Description	Date
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**DWG ISSUE & REVISION HISTORY**

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Project Title:

**CENTER FOR INNOVATION AND ACTIVE CITIZENSHIP**  
SPECIAL PERMIT

**THE FREDERICK GUNN SCHOOL**  
99 Green Hill Road  
Washington, CT 06793

Drawing Title:

**SOIL EROSION & SEDIMENTATION CONTROL DETAILS**

Project No: 08323.00 Scale: NO SCALE

Drawn By: AVC

Checked By: KMM

Approved By: CJC

Date: 01/24/22

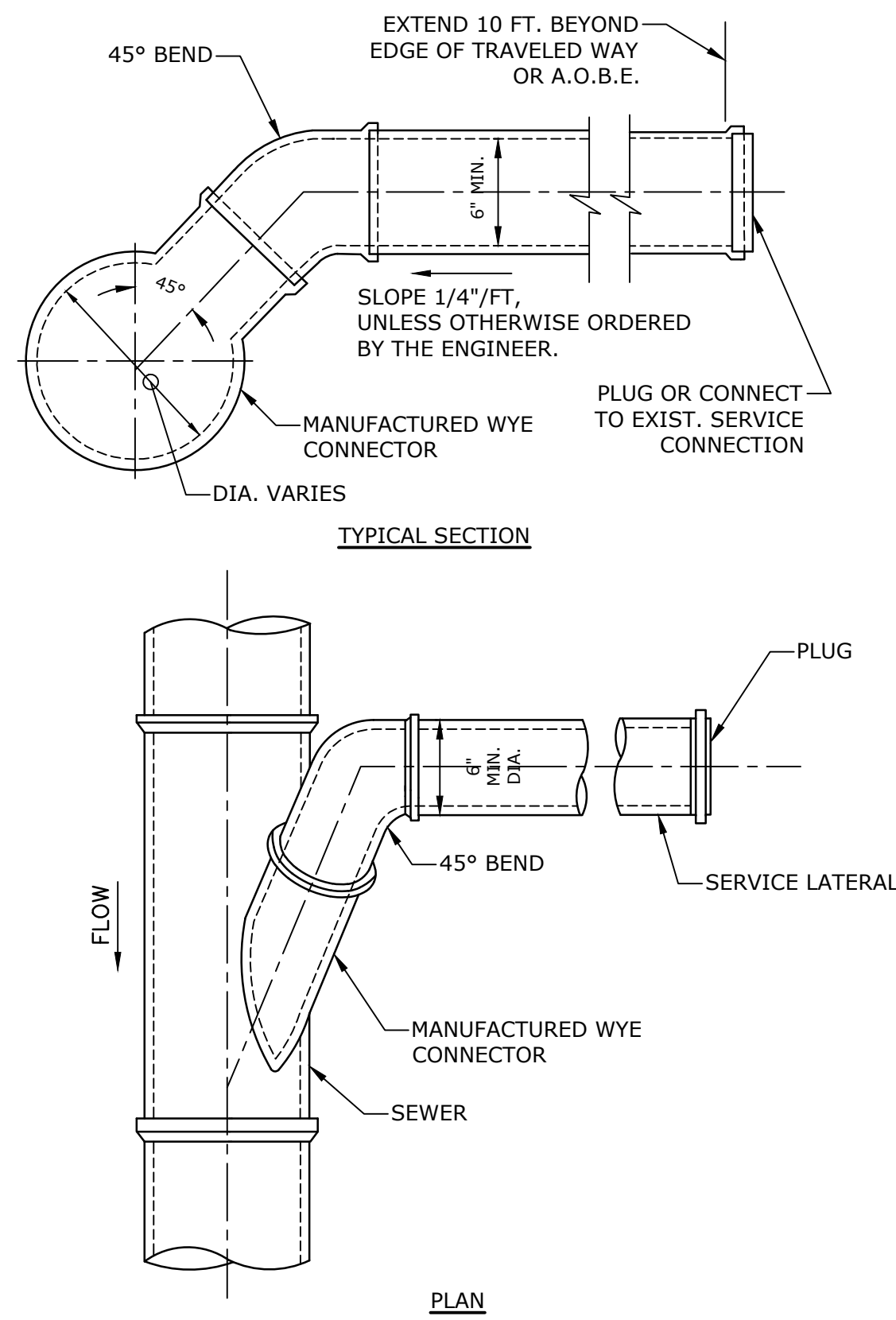
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**C-202**

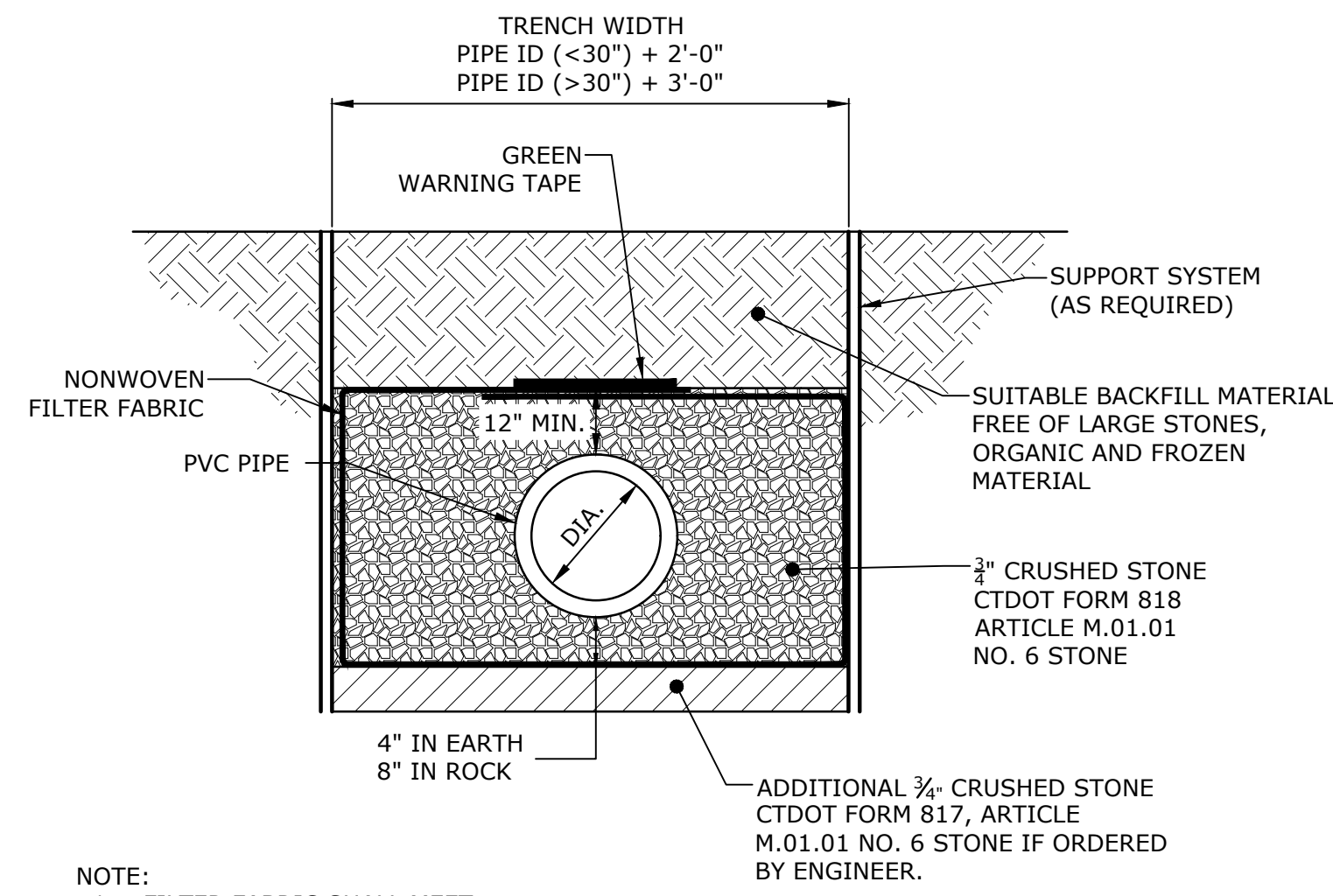


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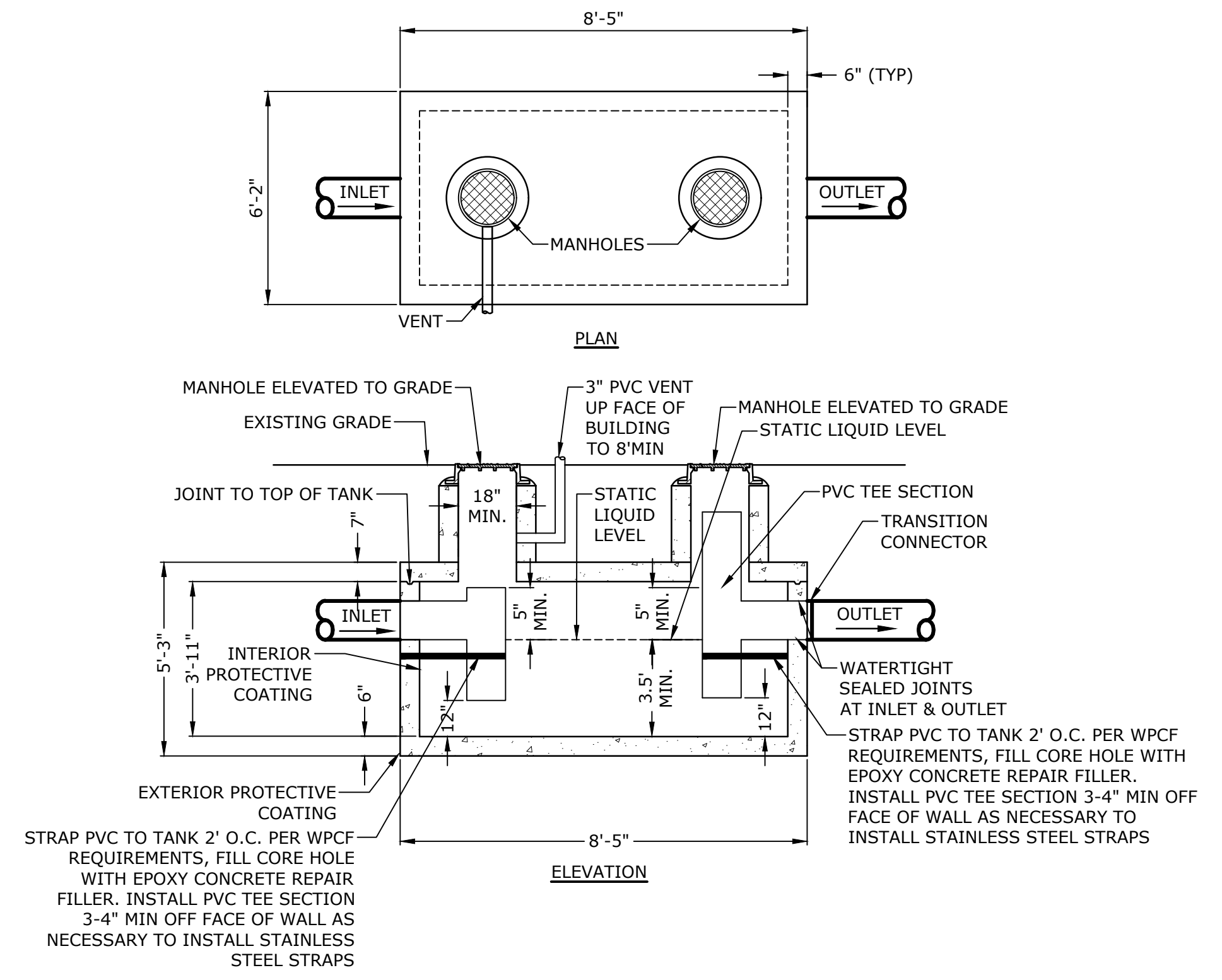
213 Court Street  
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(860) 704-4760



**SANITARY SERVICE LATERAL CONNECTION**  
NO SCALE

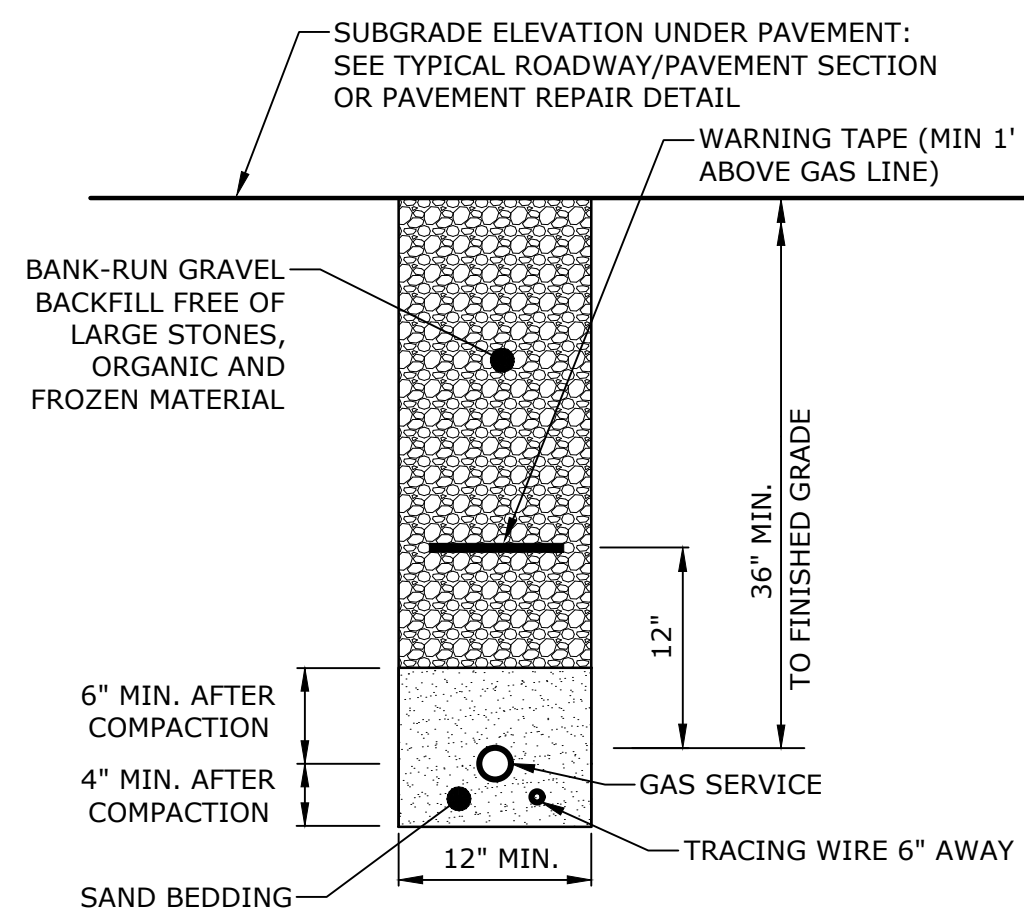


**SANITARY SEWER  
P.V.C. TRENCH BEDDING**  
NO SCALE



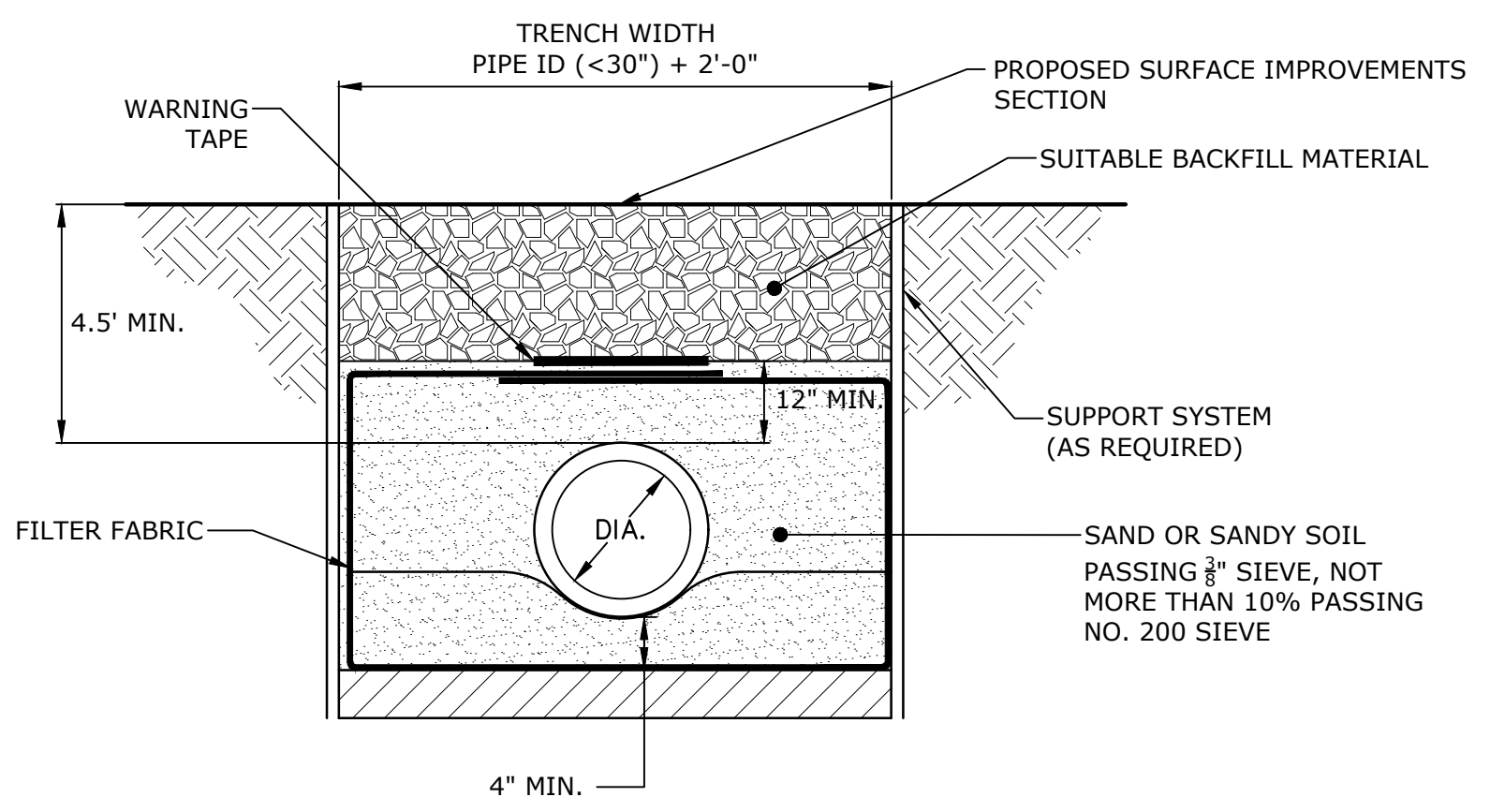
- NOTES:
- CLEANOUT MANHOLES SHOULD BE ELEVATED TO GRADE WITH WATERTIGHT ACCESS COVERS.
  - HORIZONTAL JOINT SHALL BE ABOVE WATER LINE AT TOP OF TANK.
  - EXTERIOR OF TANK SHALL BE COATED WITH A WATERPROOF SEALANT.
  - VOIDS BETWEEN INLET AND/OR OUTLET PIPING AND CONCRETE WALLS MUST BE FILLED WITH AN APPROVED WATERTIGHT, NON-SHRINKABLE GROUT MATERIAL, AND COATED WITH WATER GROUT SEALANT.
  - TANK MUST BE VENTED WITH A 3" PVC VENT ATTACHED TO BUILDING WALL TO EXTEND 8'-0" ABOVE FINISHED GRADE. INSTALL MUSHROOM CAP. REFER TO PLUMBING DRAWINGS FOR VENT LOCATION.
  - TANK SHALL BE DESIGNED FOR H2O LOADING.
  - TANK SHALL COMPLY WITH ALL CTDEEP REQUIREMENTS.
  - ELEVATION OF THE INLET PIPE SHALL BE 2"-4" ABOVE THE INVERT ELEVATION OF THE OUTLET PIPE.
  - SUBMIT SHOP DRAWING TO LOCAL WATER POLLUTION CONTROL AUTHORITY FOR REVIEW AND APPROVAL.

**1,000 GALLON (500 GALLON MINIMUM LIQUID VOLUME) GREASE TRAP**  
NO SCALE



**GAS SERVICE TRENCH**  
NO SCALE

- NOTES:
- ALL EXCAVATION WORK WILL BE IN ACCORDANCE WITH THE DIRECTION OF THE COMPANY AND IN COMPLIANCE WITH THE REGULATIONS OF THE AUTHORITIES HAVING JURISDICTION OVER THE STREETS, ALLEYS, RIGHT-OF-WAYS, OR PROPERTIES WHERE THE WORK IS TO BE EXECUTED.
  - PRIOR TO THE INSTALLATION OF THE PIPE, SAND PADDING SHALL BE INSTALLED, A MINIMUM OF 4" (MEASURED AFTER COMPACTION.)
  - SAND PADDING ABOVE THE GAS PIPE SHALL BE A MINIMUM OF 6" (MEASURED AFTER COMPACTION.)
  - BACKFILL SHALL BE FREE OF LARGE STONES (6" DIAMETER) WITHIN 1' OF THE PIPE. IF THE MATERIAL REMOVED FROM THE TRENCH IS NOT SUITABLE FOR BACKFILL, REPLACEMENT FILL SHALL BE USED.
  - ALL GAS SERVICE INSTALLATIONS SHALL BE COORDINATED WITH LOCAL PROPANE SUPPLIER.
  - ALL GAS SERVICES SHALL BE INSTALLED PER STATE AND LOCAL STANDARDS AND REQUIREMENTS.



**WATER SERVICE TRENCH BEDDING**  
NO SCALE

### WATER MAIN INSTALLATION NOTES

- WATER MAIN DETAILS, SPECIFICATION, TESTING AND INSTALLATION SHALL COMPLY WITH THE STANDARDS AND REQUIREMENTS OF THE LOCAL WATER COMPANY.
- CONTRACTOR SHALL COORDINATE ALL WATER MAIN INSTALLATION INCLUDING ALL PIPING, FITTINGS, VALVES, TAPPING, SHUT DOWNS, ETC. WITH THE LOCAL WATER COMPANY.
- AFTER PLACING APPROXIMATELY 2 FEET OF BACKFILL MATERIAL OVER ALL UTILITY PIPING, THE CONTRACTOR SHALL PLACE A 6" WIDE STRIP OF DURABLE, COLOR CODED (BLUE FOR WATER) UNDERGROUND UTILITY DETECTABLE WARNING TAPE IMPRINTED WITH AN APPROPRIATE WARNING INDICATING THE PRESENCE OF THE BURIED UTILITY.
- WHEN CROSSING A SEWER, WATER MAIN JOINTS SHALL BE SPACED A MINIMUM OF 9' FROM THE INTERSECTION WITH THE SEWER.
- CONTRACTOR SHALL EXCAVATE TEST PITS AT LOCATIONS SHOWN ON THE CONTRACT DRAWINGS WELL IN ADVANCE OF PIPE LAYING OPERATIONS TO CHECK FOR POSSIBLE CONFLICTS AND SUBSEQUENT METHODS OF REMEDY, AS DETERMINED BY THE OWNER'S REPRESENTATIVE, SHOULD CONFLICTS EXIST. ALL COST FOR TEST PITS SHALL BE INCLUDED IN THE PRICE BID FOR THE CONTRACT.
- ALL JOINTS SHALL BE RESTRAINED WITH RETAINER GLANDS (MEGALUG SERIES 1100, MANUFACTURED BY EBAA IRON SALES, INC. OR LOCAL WATER COMPANY APPROVED EQUIVALENT).
- ALL FITTINGS SHALL BE MECHANICAL JOINT WITH RETAINER GLANDS IN EACH DIRECTION. ALL FOLLOWER GLANDS SHALL BE REPLACED WITH RETAINER GLANDS.
- INSTALLATION OF DUCTILE IRON PIPE, FITTINGS, BLOW-OFFS, PIPE SUPPORTS AND APPURTENANCES SHALL BE IN ACCORDANCE WITH THE LOCAL WATER COMPANY STANDARDS.
- THE WATER MAIN SHALL BE DUCTILE IRON PIPE CLASS 52, LINED WITH DOUBLE THICKNESS CEMENT MORTAR, IN ACCORDANCE WITH ANSI/AWWA C151/A21. 51-81, AND SPECIFICATIONS INCLUDED IN THIS CONTRACT.
- ALL EXISTING STRUCTURES, INCLUDING SANITARY SEWERS, LATERALS, STORM SEWERS, CATCH BASINS, MANHOLES AND UTILITY POLES, WHICH DURING THE EXECUTION WILL BE CONSIDERED BY THE OWNER'S REPRESENTATIVE AS BEING DISTURBED OR DAMAGED BY THE WATER MAIN INSTALLATION SHALL BE RESTORED OR REPLACED BY THE CONTRACTOR IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS WHICH GOVERNED THE CONSTRUCTION OF THAT STRUCTURE AND TO THE SATISFACTION OF THE AUTHORITY HAVING JURISDICTION, AND THE OWNER'S REPRESENTATIVE. ALL COSTS FOR SUCH WORK, INCLUDING TEMPORARY RELOCATION OF THE FOREMENTIONED STRUCTURES, SHALL BE CONSIDERED AS HAVING BEEN INCLUDED IN THE LUMP SUM CONTRACT PRICE.
- ANY DEFLECTION OF THE WATER MAIN SHALL BE MADE ACCORDING TO THE RECOMMENDATION CONTAINED WITHIN DUCTILE IRON PIPE RESEARCH ASSOCIATION STANDARDS.
- MINIMUM DEPTH OF COVER OVER PROPOSED WATER MAIN SHALL BE 4.5 FEET.
- ALL INSTALLED WATER MAIN SHALL BE TESTED ACCORDING TO THE REQUIREMENTS OF THE LOCAL WATER COMPANY. TEST PRESSURE FOR THE WATER MAIN IS 200 PSI.
- WATER MAIN, FITTINGS, VALVES, CURB BOXES, ETC. SHALL BE INSTALLED ACCORDING TO THE LATEST LOCAL WATER COMPANY RULES, REGULATIONS, AND SPECIFICATIONS.
- CONTRACTOR SHALL INSTALL TEMPORARY BLOW-OFF ASSEMBLY, INCLUDING GATE VALVE, AS REQUIRED FOR FLUSHING PROPOSED WATER MAIN IN ACCORDANCE WITH THE LOCAL WATER COMPANY REQUIREMENTS. REMOVAL OF ALL TEMPORARY SYSTEMS IS INCLUDED IN THE LUMP SUM BID PRICE.
- NOT ALL BENDS, FITTINGS, OFFSETS, CONNECTORS, CHLORINATION VALVES, BLOW OFF ASSEMBLIES, ETC. ARE NOT SHOWN ON THE DRAWINGS. INSTALLATION OF WATER MAIN AND SERVICES SHALL CONFORM TO LOCAL WATER COMPANY STANDARDS AND GUIDELINES.

No.	Description	Date
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**THE FREDERICK GUNN SCHOOL**  
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Drawing Title:  
**SITE UTILITY DETAILS**

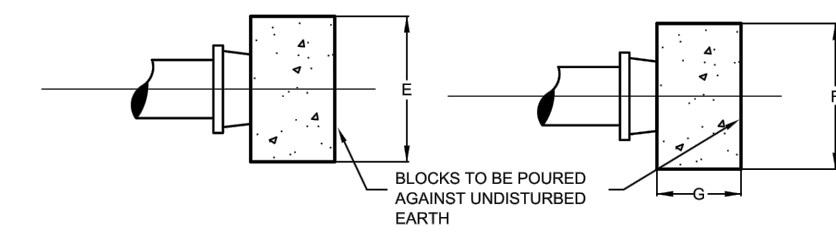
Project No: **08323.00** Scale: **NO SCALE**  
Drawn By: **AVC**  
Checked By: **KMM**  
Approved By: **CJC**  
Date: **01/24/22**

Drawing No. **C-301**



## Tighe & Bond

213 Court Street  
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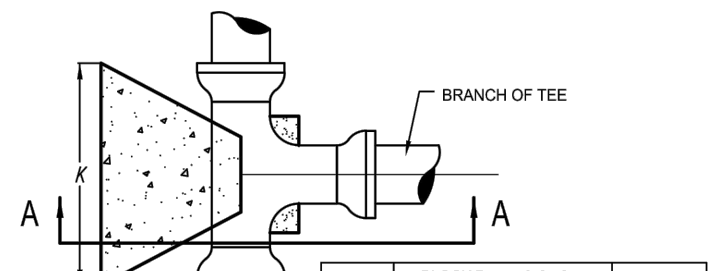


**NOTES:**

- 2500 psi CONCRETE TO BE USED
- BLOCK DIMENSIONS ARE BASED UPON SOIL BEARING PRESSURE OF 2000 psi AND WATER PRESSURE OF 150 psi WHERE SOIL BEARING IS LESS OR WATER PRESSURE IS GREATER, A SPECIAL DESIGN WILL BE REQUIRED.
- FOR USE ON ABANDONED LINES AND DEAD ENDS WHERE NO EXTENSION IS CONTEMPLATED.

PIPE DIAM	BLOCK DIMENSIONS				CONCRETE VOLUME (CU YD)
	E	F	G	H	
6	20	16	12	0.59	
8	28	20	12	0.75	
10	30	24	12	0.79	
12	42	30	14	0.85	
16	52	42	16	0.95	

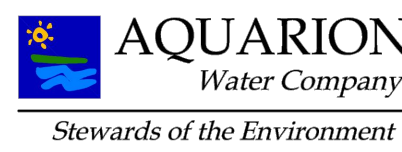
**CAPS, PLUGS AND VALVES**



BRANCH SIZE	BLOCK DIMENSIONS				CONCRETE VOLUME (CU YD)
	K	L	M	N	
6	18	16	12	0.59	
8	30	18	12	1.15	
10	42	20	12	0.84	
12	50	24	16	0.82	
16	52	36	24	1.12	

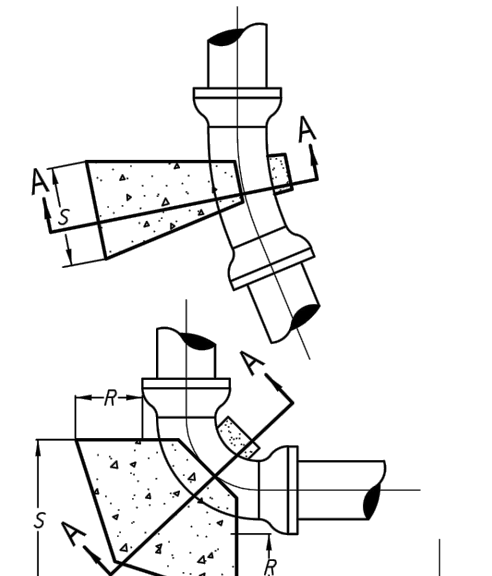
**TEES**

- NOTES:**
- 2500 psi CONCRETE TO BE USED
  - BLOCK DIMENSIONS ARE BASED UPON SOIL BEARING PRESSURE OF 2000 psi AND WATER PRESSURE OF 150 psi WHERE SOIL BEARING IS LESS OR WATER PRESSURE IS GREATER, A SPECIAL DESIGN WILL BE REQUIRED.



**THRUST BLOCKS AT TEES, CAPS, PLUGS & VALVES**  
NOT TO SCALE

SD-14



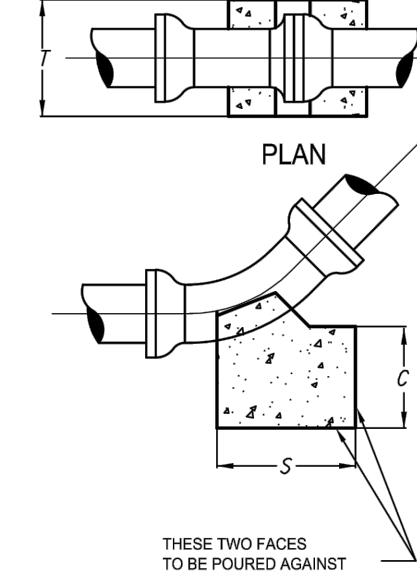
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8	48	34	20	0.70	
10	42	20	18	0.55	
12	42	20	18	0.52	
16	36	36	36	1.00	
20	36	24	18	0.53	
24	28	18	12	0.13	
30	30	30	30	0.60	
36	30	20	18	0.23	
42	22	18	12	0.08	
48	24	24	24	0.30	
60	24	18	12	0.07	
72	18	12	12	0.11	
84	18	18	18	0.25	
96	18	12	12	0.11	
108	12	12	12	0.07	

- NOTES:**
- 2500 psi CONCRETE TO BE USED
  - BLOCK DIMENSIONS ARE BASED UPON SOIL BEARING PRESSURE OF 2000 psi AND WATER PRESSURE OF 150 psi WHERE SOIL BEARING IS LESS OR WATER PRESSURE IS GREATER, A SPECIAL DESIGN WILL BE REQUIRED.
  - SEE SAG VERTICAL (ABOVE)



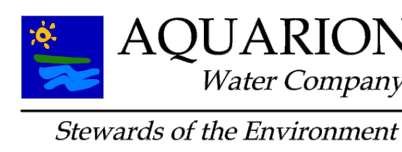
**THRUST BLOCKS AT HORIZONTAL BENDS**  
NOT TO SCALE

SD-15



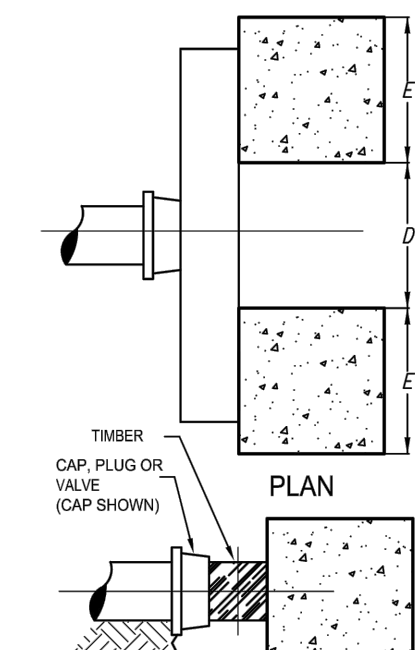
PIPE DIAM	BLOCK DIMENSIONS				CONCRETE VOLUME (CU YD)
	S	T	U	V	
6	48	48	48	2.40	
8	48	34	20	0.70	
10	42	20	18	0.55	
12	42	20	18	0.52	
16	36	36	36	1.00	
20	36	24	18	0.53	
24	28	18	12	0.13	
30	30	30	30	0.60	
36	30	20	18	0.23	
42	22	18	12	0.08	
48	24	24	24	0.30	
60	24	18	12	0.07	
72	18	12	12	0.11	
84	18	18	18	0.25	
96	18	12	12	0.11	
108	12	12	12	0.07	

- NOTES:**
- 2500 psi CONCRETE TO BE USED
  - BLOCK DIMENSIONS ARE BASED UPON SOIL BEARING PRESSURE OF 2000 psi AND WATER PRESSURE OF 150 psi WHERE SOIL BEARING IS LESS OR WATER PRESSURE IS GREATER, A SPECIAL DESIGN WILL BE REQUIRED.
  - BEND TO BE SET AGAINST UNDISTURBED EARTH. BACKFILL TO BE FIRMLY TAMPED, OR BLOCK TO BE FURNISHED AS DIRECTED BY THE ENGINEER.



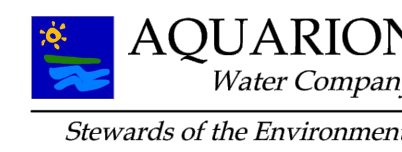
**THRUST BLOCKS AT SAG VERTICAL BENDS**  
NOT TO SCALE

SD-17



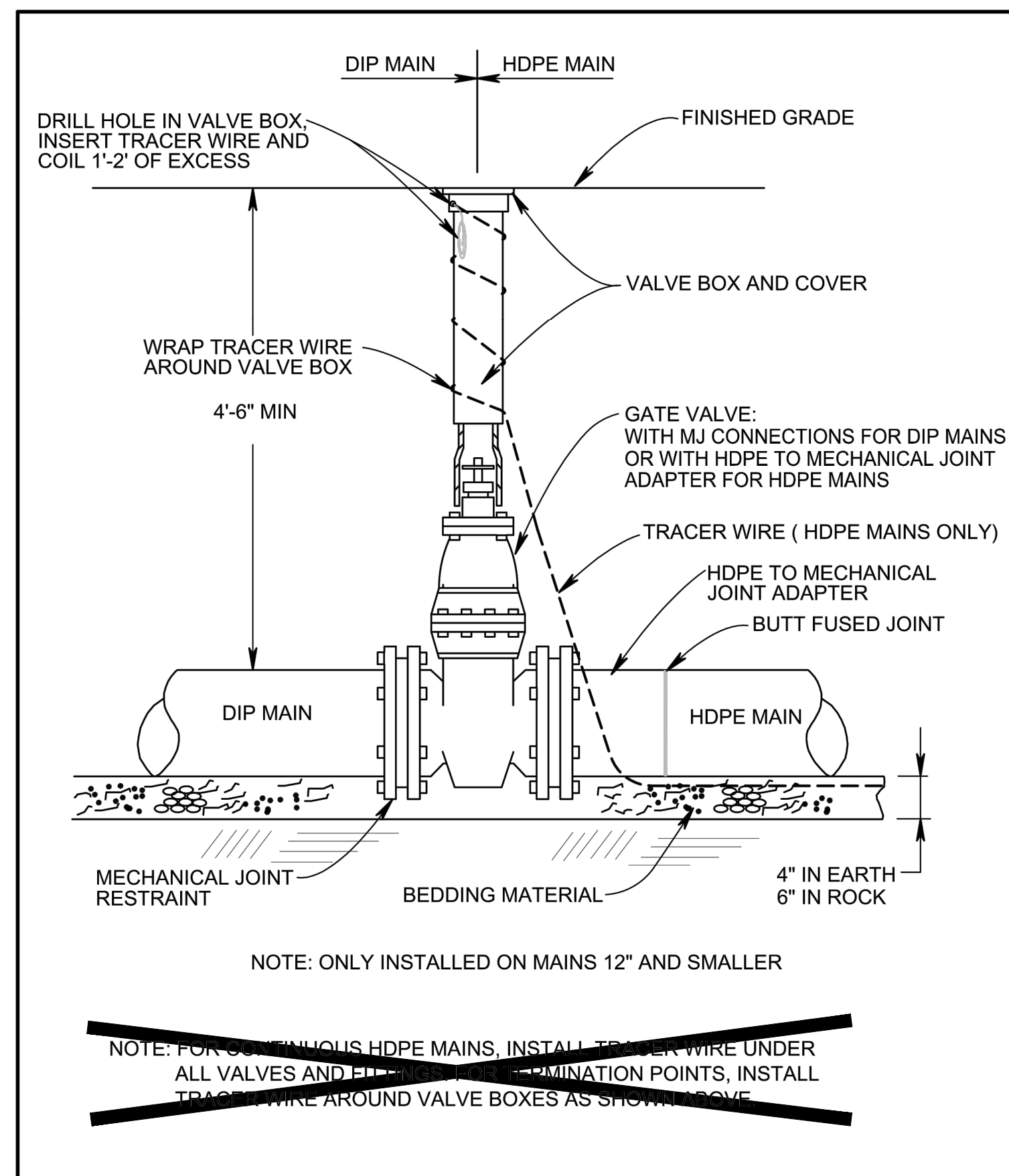
PIPE DIAM	BLOCK DIMENSIONS				CONCRETE VOLUME (CU YD)
	E	F	G	H	
4	NONE REQUIRED				
6	12	12	12	0.07	
8	16	16	16	0.18	
10	20	20	20	0.34	
12	24	24	24	0.59	
16	32	32	32	1.00	

- NOTES:**
- 2500 psi CONCRETE TO BE USED
  - BLOCK DIMENSIONS ARE BASED UPON SOIL BEARING PRESSURE OF 2000 psi AND WATER PRESSURE OF 150 psi WHERE SOIL BEARING IS LESS OR WATER PRESSURE IS GREATER, A SPECIAL DESIGN WILL BE REQUIRED.
  - TIMBER TO BE DOUGLAS FIR CONSTRUCTION GRADE OR BETTER HORIZONTAL SHEAR 120 psi.
  - PROVIDE TAMPED BACKFILL AND/OR BLOCKING TO SUPPORT TIMBER.



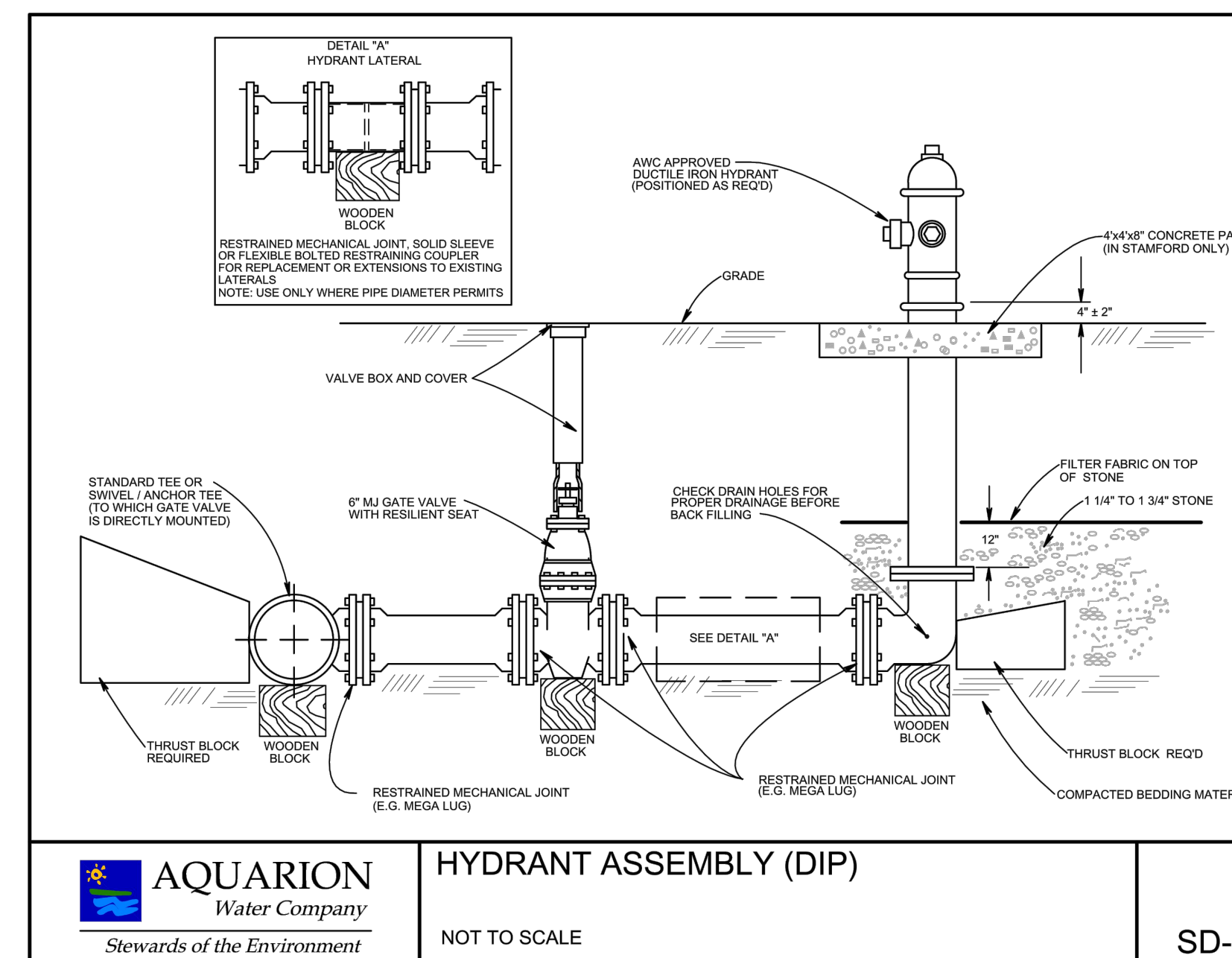
**THRUST BLOCKS AT DEAD ENDS**  
NOT TO SCALE

SD-13



**GATE VALVE**  
NOT TO SCALE

SD-2



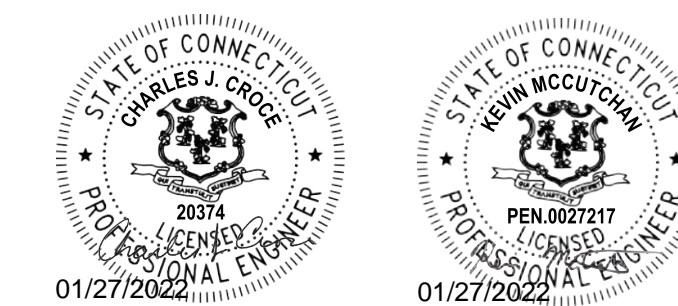
**HYDRANT ASSEMBLY (DIP)**  
NOT TO SCALE

SD-8

No.	Description	Date
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**DWG ISSUE & REVISION HISTORY**

Stamp



Project Title:

**CENTER FOR INNOVATION AND ACTIVE CITIZENSHIP**  
SPECIAL PERMIT

**THE FREDERICK GUNN SCHOOL**  
99 Green Hill Road  
Washington, CT 06793

Drawing Title:

**SITE UTILITY DETAILS**

Project No: 08323.00 Scale: NO SCALE

Drawn By: AVC

Checked By: KMM

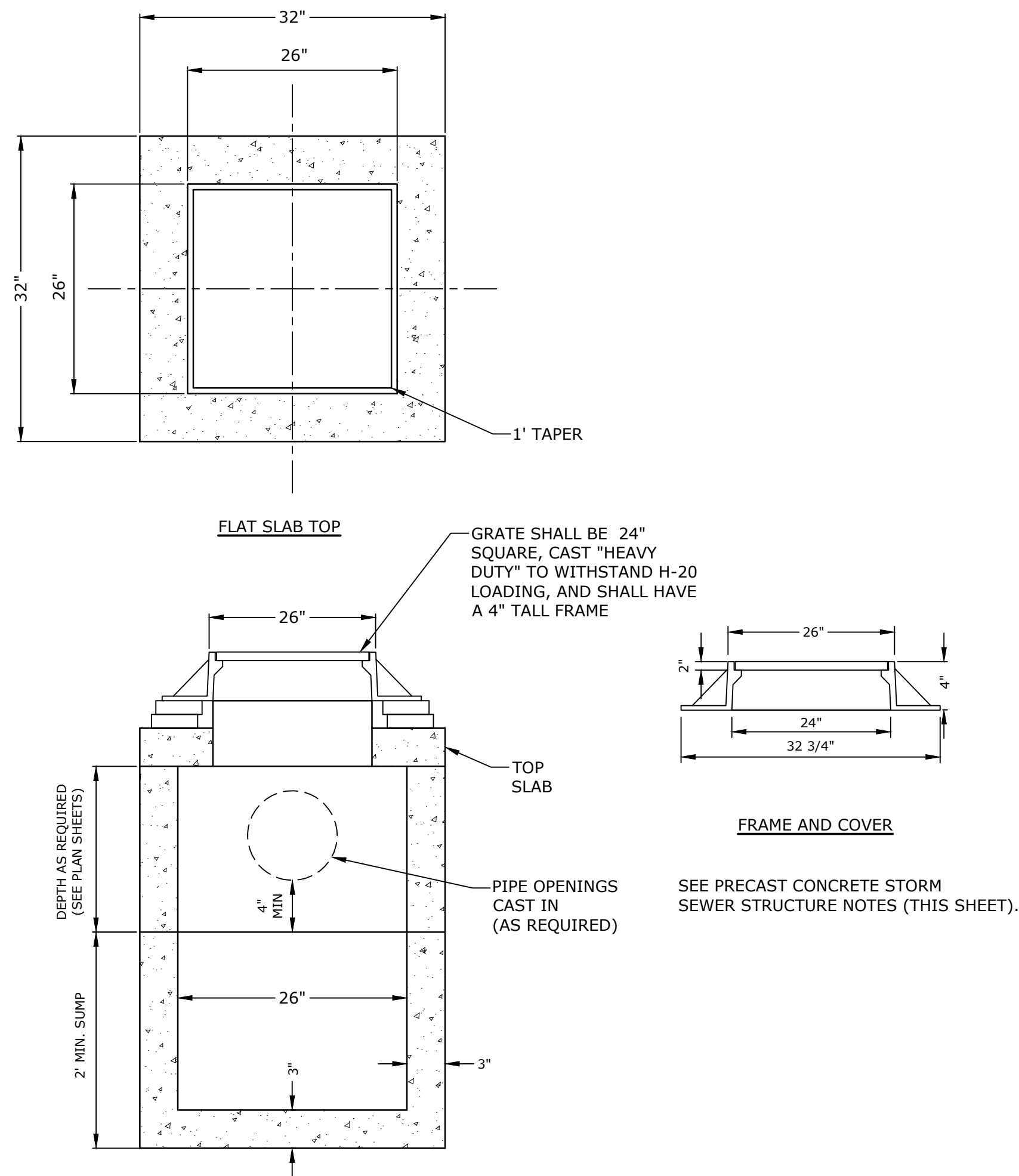
Approved By: CJC

Date: 01/24/22

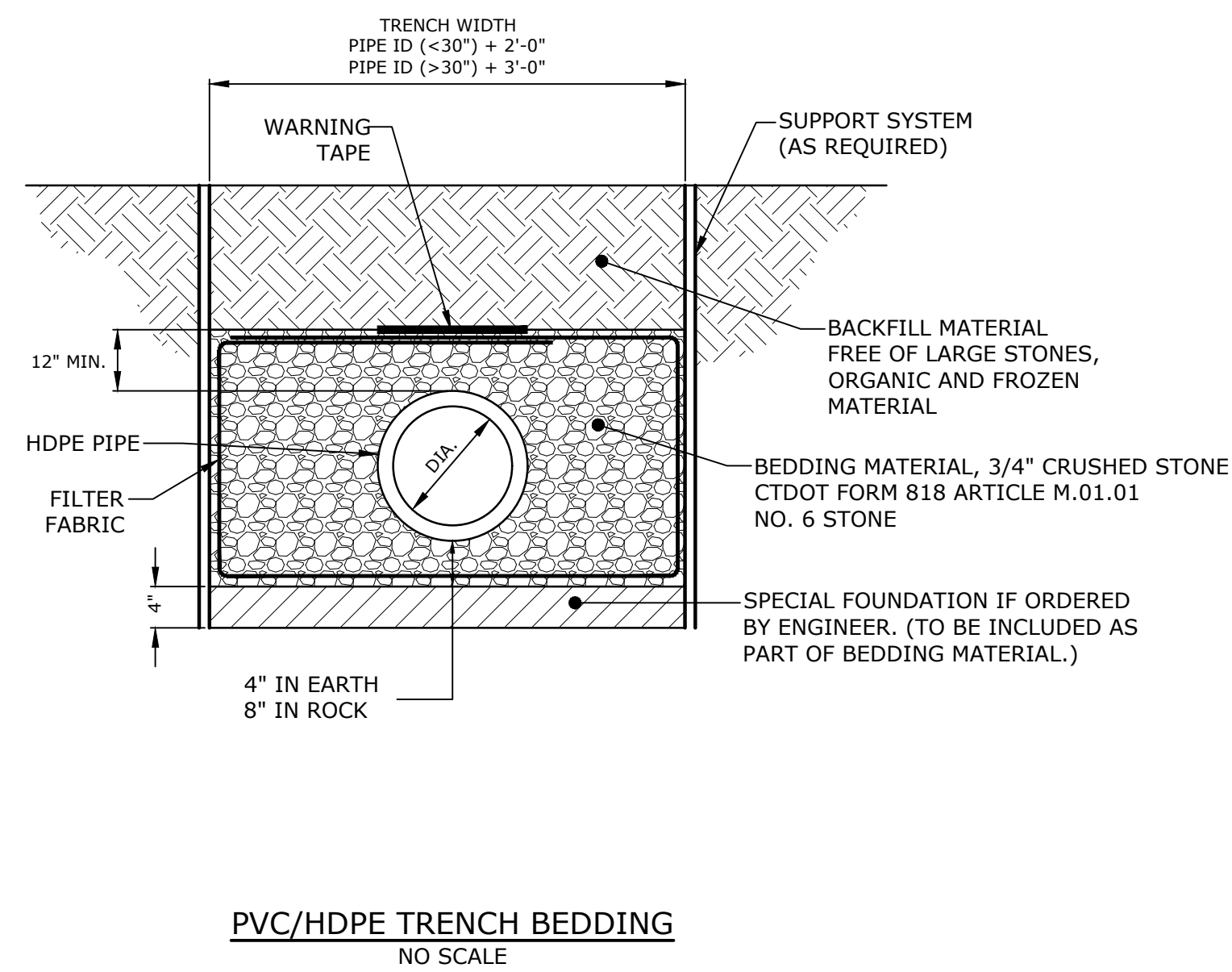
Drawing No.

**C-302**



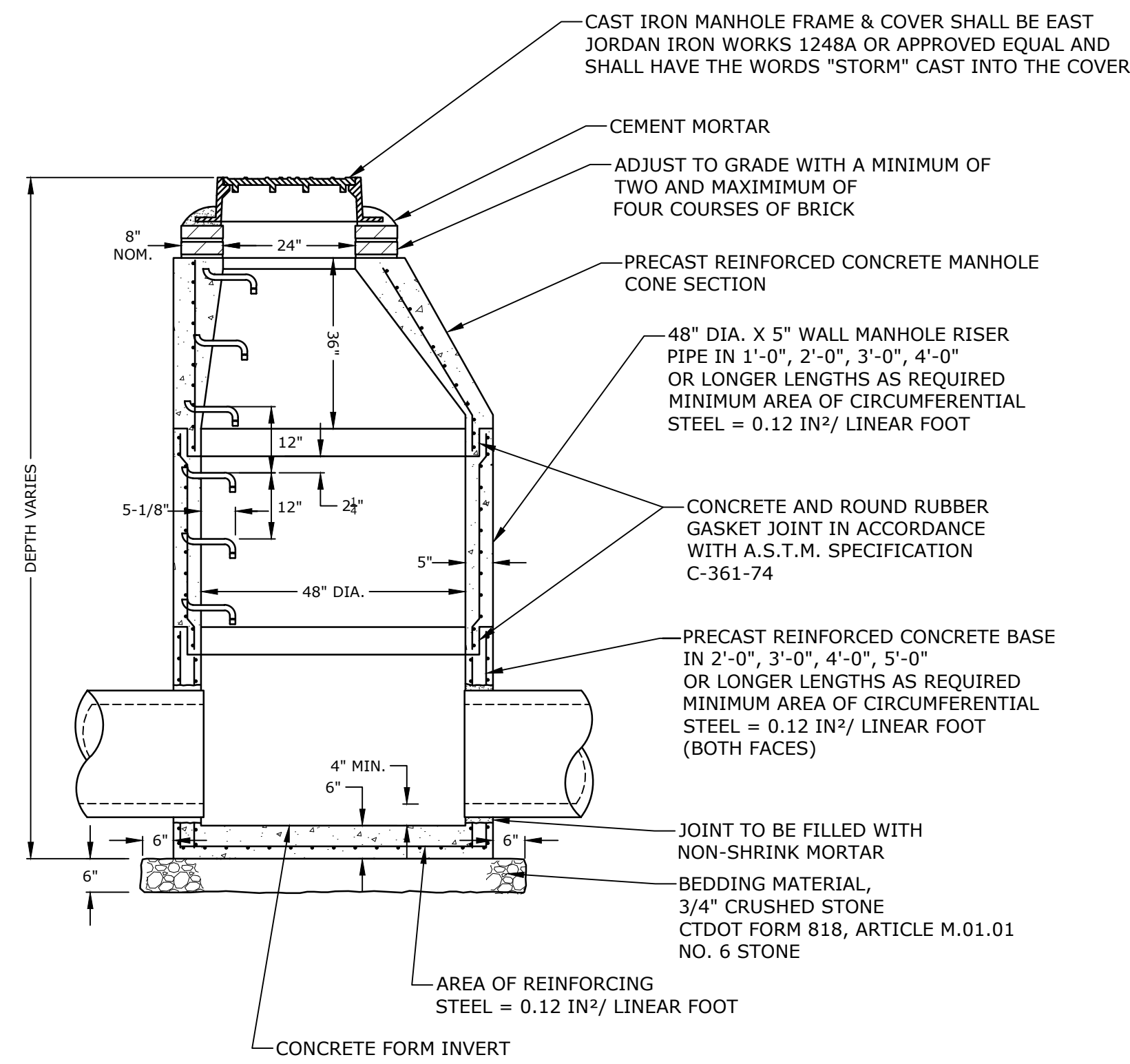


**YARD DRAIN DETAIL**  
NO SCALE

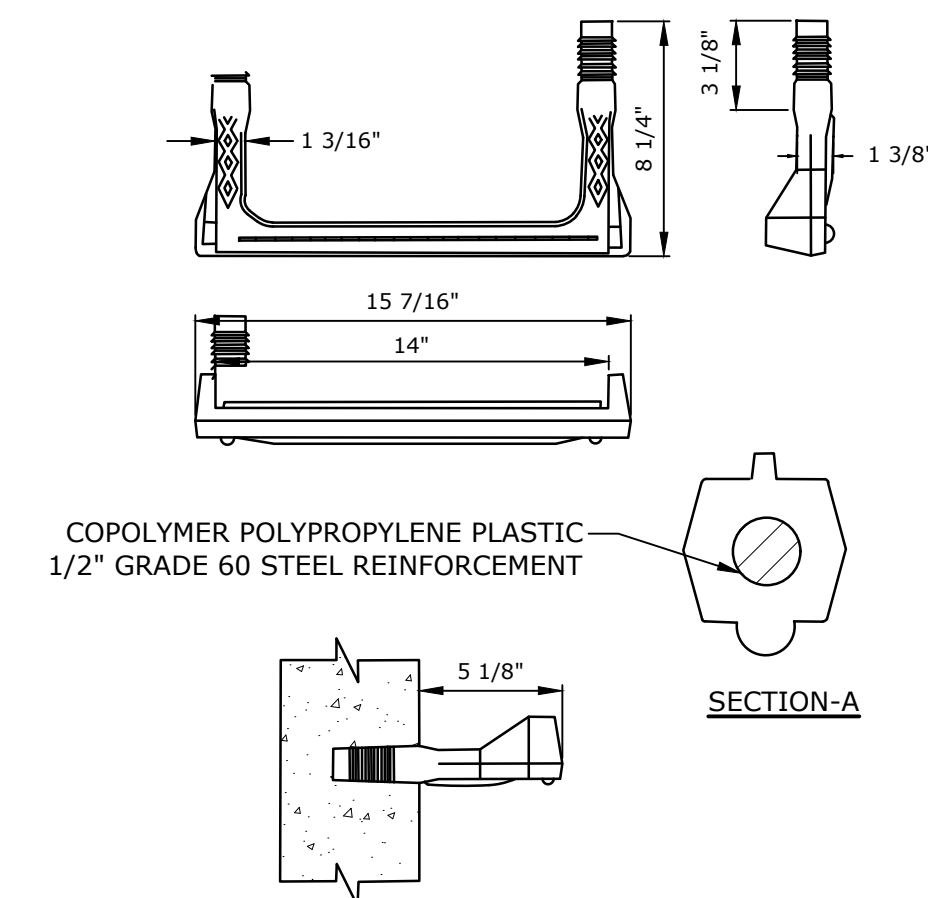


**PVC/HDPE TRENCH BEDDING**  
NO SCALE

- NOTES:
1. REINFORCING STEEL WELDED WIRE FABRIC SHALL CONFORM TO LATEST ASTM SPECIFICATION A185.
  2. REINFORCING STEEL DEFORMED BARS SHALL CONFORM TO LATEST ASTM SPECIFICATION A615.
  3. CONCRETE COMPRESSIVE STRENGTH: 5,000 PSI - 28 DAYS.
  4. MANHOLE STEP TO CONFORM TO OSHA AND ASTM SPECIFICATIONS.
  5. MONOLITHIC BASE SECTION.

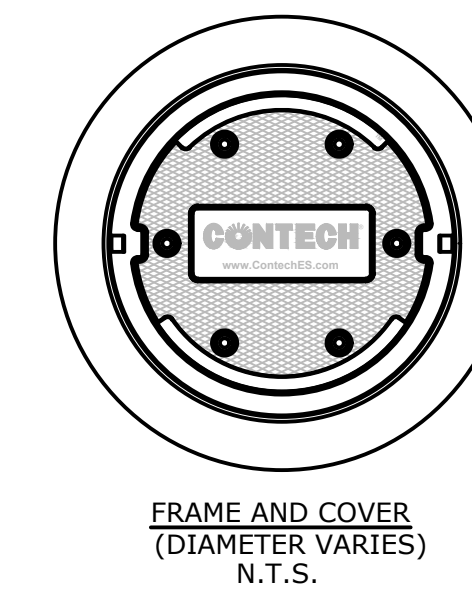
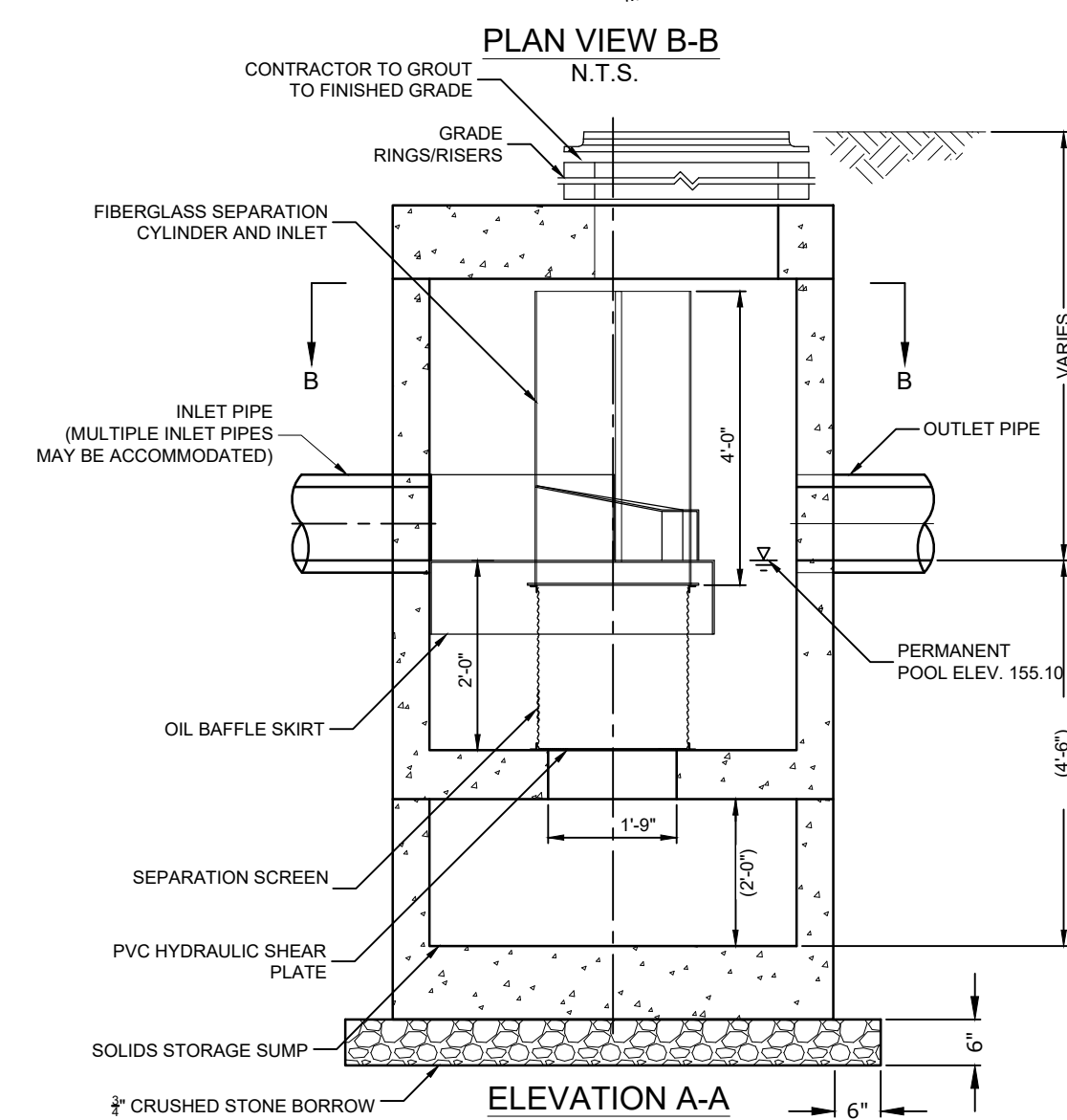
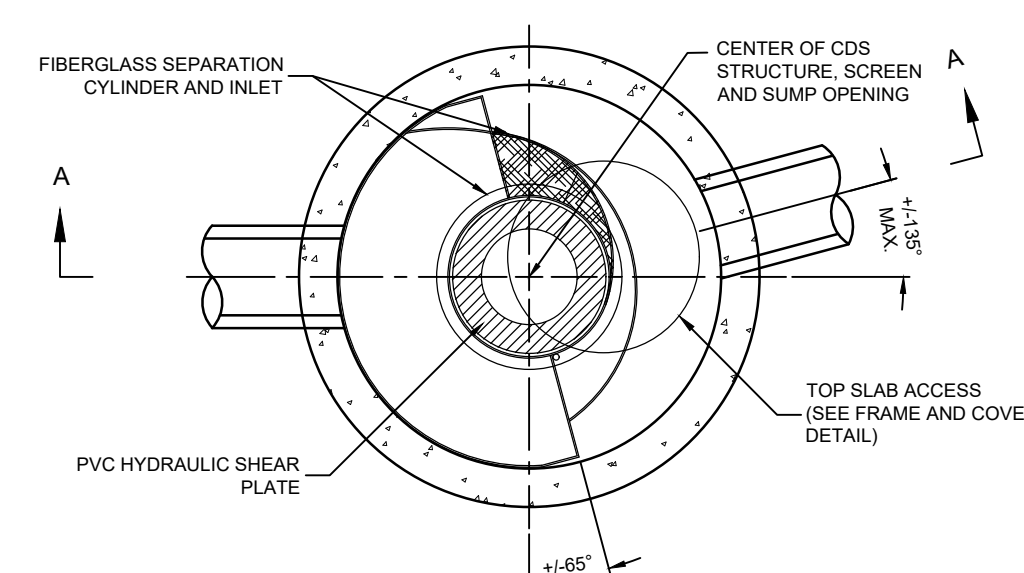


**ON-SITE 48\"/>**



**MANHOLE RUNG**  
NO SCALE

NOTE:  
MANHOLE RUNGS ARE TO BE "SAFETY GREEN" PHOSPHORESCENT COPOLYMER POLYPROPYLENE PLASTIC COATED 1/2" GRADE STEEL REINFORCEMENT STEP MODEL No. PS2-PFSL AS MANUFACTURED BY M.A. INDUSTRIES, INC. OR PRESS-SEAL GASKET, STEEL REINFORCED (GRADE 60 STEEL), COPOLYMER POLYPROPYLENE 14" MANHOLE SAFETY STEP PART # P-14850 WITH BUILT-IN REFLECTORS. STEPS ARE TO BE FACTORY INSTALLED BY THE MANUFACTURER OF THE MANHOLES



- NOTES
1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
  2. CDS WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
  3. STRUCTURE SHALL MEET AASHTO HS20 AND CASTINGS SHALL MEET HS20 (AASHTO M 306) LOAD RATING.
  4. INSTALL PER MANUFACTURER'S REQUIREMENTS.

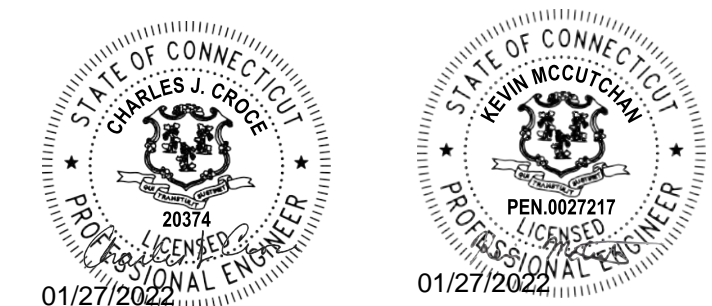
**CDS MODEL CDS2015-4-C**  
NO SCALE



**Tighe & Bond**  
213 Court Street  
Suite 1100  
Middletown, CT 06457  
(860) 704-4760

No.	Description	Date
DWG ISSUE & REVISION HISTORY		

Stamp



Project Title:

**CENTER FOR INNOVATION  
AND ACTIVE CITIZENSHIP**  
SPECIAL PERMIT

**THE FREDERICK GUNN SCHOOL**  
99 Green Hill Road  
Washington, CT 06793

Drawing Title:

**SITE STORMWATER  
MANAGEMENT DETAILS**

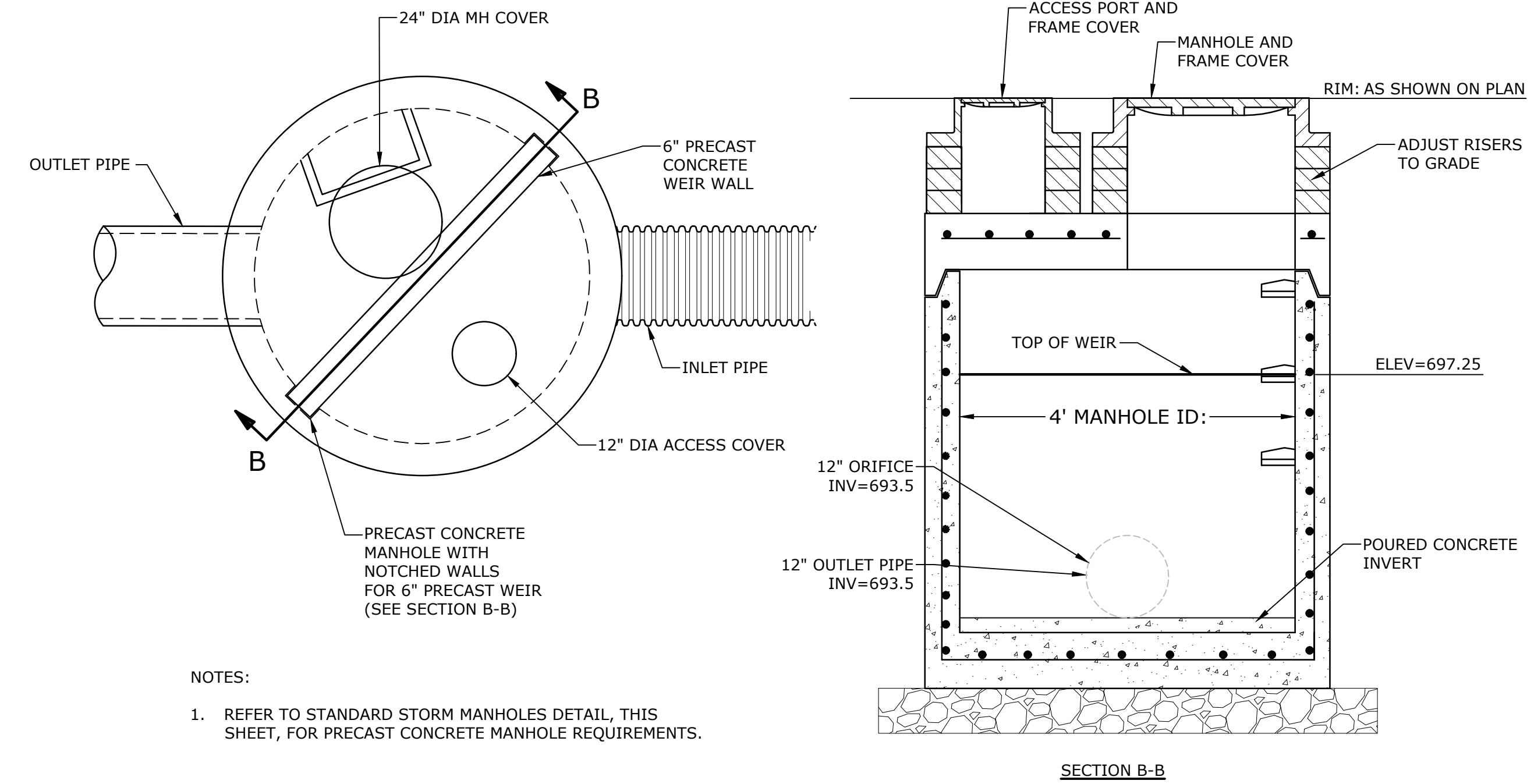
Project No: **08323.00** Scale: **NO SCALE**  
Drawn By: **AVC**  
Checked By: **KMM**  
Approved By: **CJC**  
Date: **01/24/22**

Drawing No. **C-303**



**Tighe & Bond**

213 Court Street  
Suite 1100  
Middletown, CT 06457  
(860) 704-4760



- NOTES:
- REFER TO STANDARD STORM MANHOLES DETAIL, THIS SHEET, FOR PRECAST CONCRETE MANHOLE REQUIREMENTS.

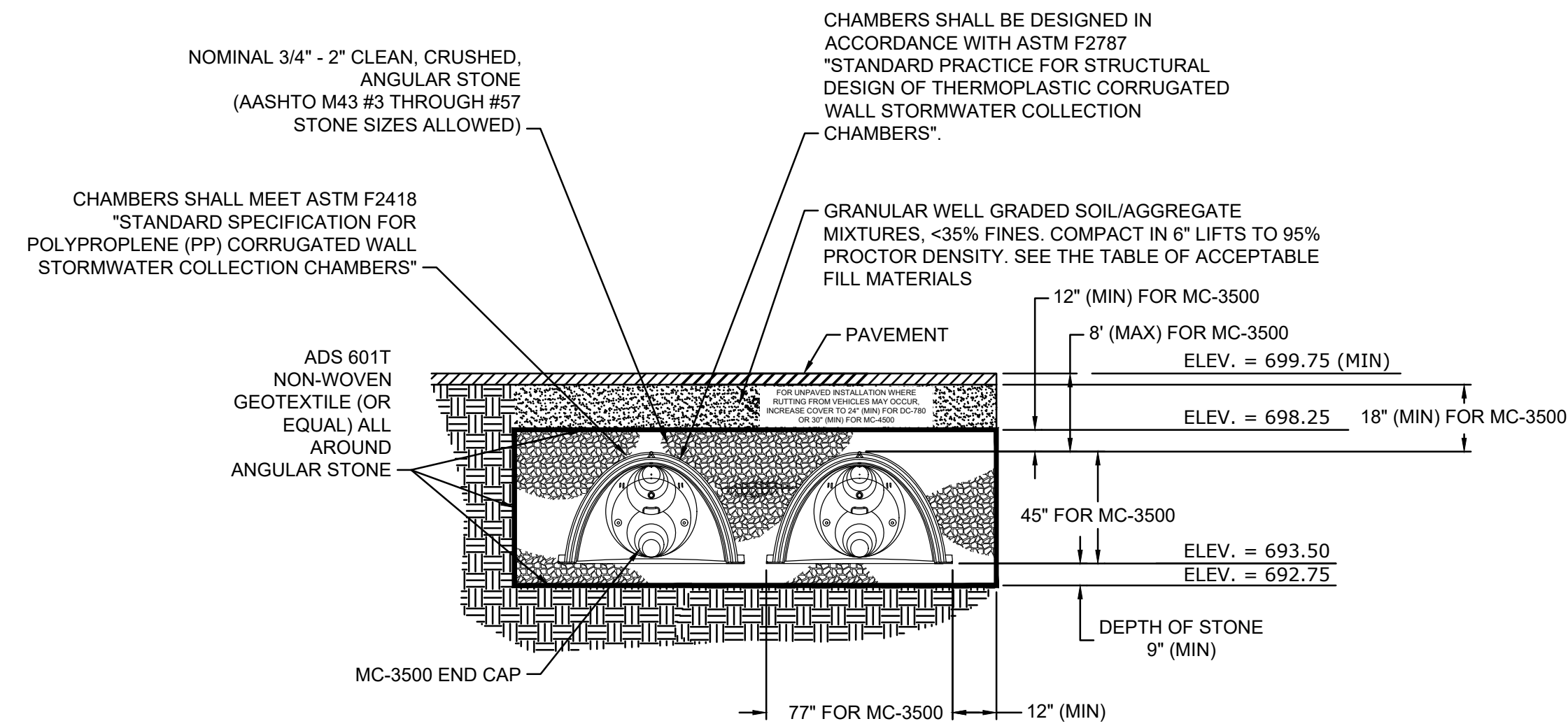
TYPICAL OUTLET CONTROL STRUCTURE  
NO SCALE

**ACCEPTABLE FILL MATERIALS: STORMTECH MC-3500 CHAMBER SYSTEMS**

MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	FINAL 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 ('C' LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	AASHTO M43# A-1, A-2.4, A-3 OR AASHTO M43# 3, 357, 4, 487, 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 LIFTS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 90% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 LBS (55 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 LBS (89 kN).
B	EMBEDMENT STONE: EMBEDMENT STONE SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE TO THE 'C' LAYER ABOVE.	AASHTO M43# 3, 357, 4, 487, 5, 56, 57	NO COMPACTION REQUIRED.
A	FOUNDATION STONE: FOUNDATION STONE BELOW THE CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	AASHTO M43# 3, 357, 4, 487, 5, 56, 57	PLACE AND COMPACT IN 6" (150 mm) LIFTS USING TWO FULL COVERAGES WITH VIBRATORY COMPACTOR. **

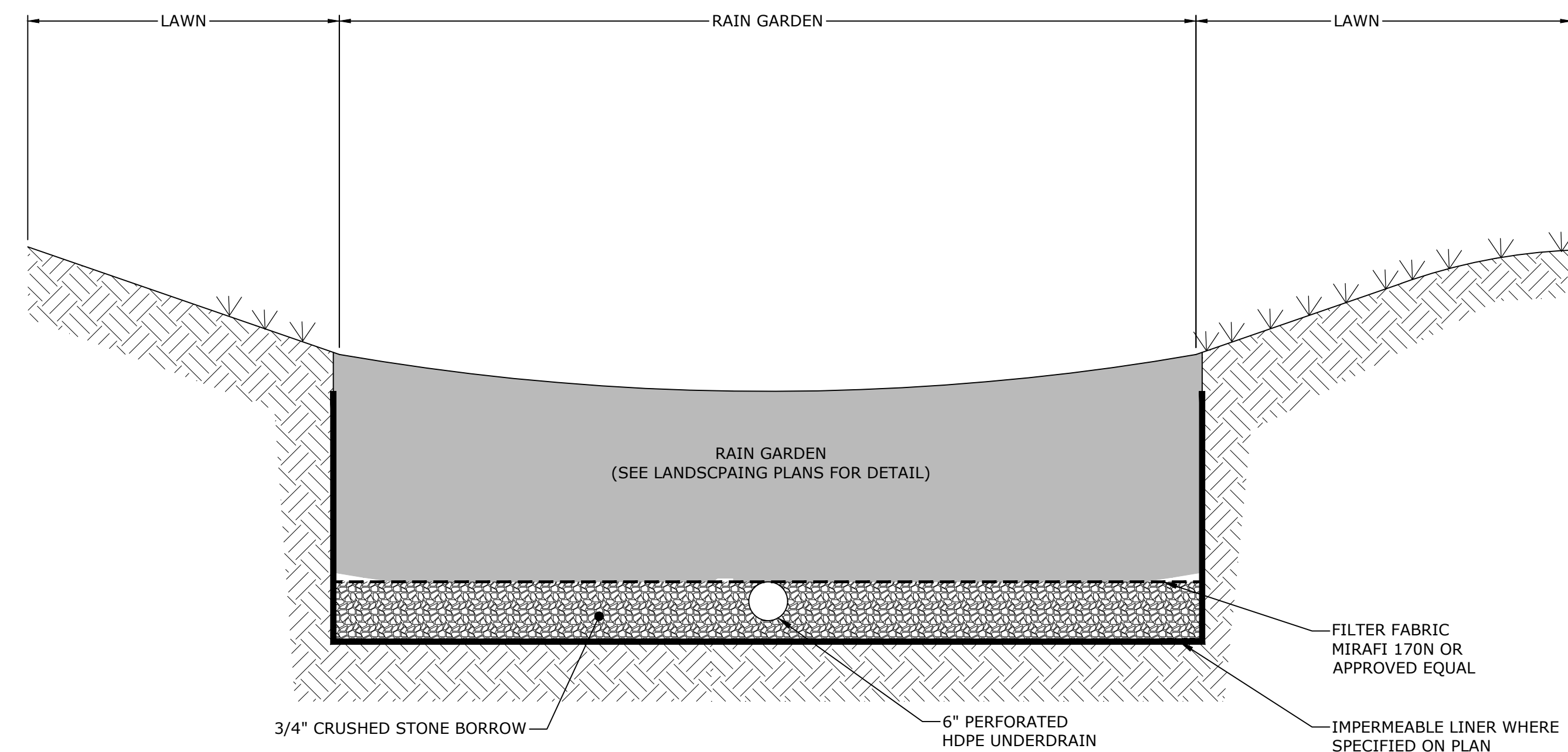
PLEASE NOTE:  
1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".  
2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS 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:
- MC-3500 CHAMBERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F2418 "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
  - MC-3500 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" REFERS TO THE ENGINEER RESPONSIBLE FOR THE DESIGN AND LAYOUT OF THE STORMTECH CHAMBERS FOR THIS PROJECT.
  - 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.



THE INSTALLED CHAMBER SYSTEM SHALL PROVIDE THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS SECTION 12.12 FOR EARTH AND LIVE LOADS WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCE.

INFILTRATION SYSTEM  
ADS, INC STORMTECH® MC-3500 TYPICAL CROSS-SECTION  
NO SCALE



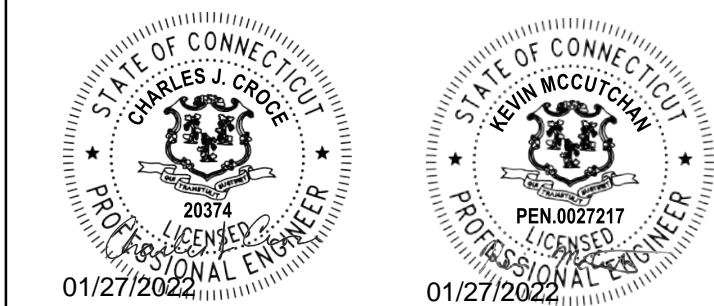
- NOTES
- IMPERMEABLE LINER SHALL CONSIST OF A PVC LINER INSTALLED BETWEEN A PROTECTIVE LAYER OF NON-WOVEN GEOTEXTILE UNDERLAYMENT AND OVERLAYMENT. THE PVC LINER SHALL BE 30 MILS THICK (MIN) AS SUPPLIED BY R.H. MOORE & ASSOCIATES, OR APPROVED EQUAL. THE LINER SHALL BE INSTALLED AS ONE CONTINUOUS SHEET, OR SEAMS SHALL BE WELDED/TAPPED PER MANUFACTURER'S RECOMMENDATIONS. GEOTEXTILE SHALL BE 0801T NONWOVEN GEOTEXTILE AS SUPPLIED BY ADS GEOSYNTHETICS, OR APPROVED EQUAL. THE CONTRACTOR SHALL TAKE PRECAUTION WHEN INSTALLING THE LINER, WHEN BACKFILLING ABOVE THE LINER, AND WHEN WORKING IN CLOSE PROXIMITY TO THE LINER AFTER INSTALLATION, IN ORDER TO PROTECT THE LINER FROM PUNCTURES OR OTHER DAMAGE.

RAIN GARDEN UNDERDRAIN DETAIL  
NO SCALE

No.	Description	Date
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Project Title:

**CENTER FOR INNOVATION AND ACTIVE CITIZENSHIP**  
SPECIAL PERMIT

**THE FREDERICK GUNN SCHOOL**  
99 Green Hill Road  
Washington, CT 06793

Drawing Title:

**SITE STORMWATER MANAGEMENT DETAILS**

Project No: **08323.00** Scale: NO SCALE  
Drawn By: **AVC**  
Checked By: **KMM**  
Approved By: **CJC**  
Date: **01/24/22**

Drawing No. **C-304**