



January 30, 2024

Mr. Robert Pfister, Chairman
Village of Pawling Planning Board
9 Memorial Avenue
Pawling, New York 12564

RE: Pawling Commons
Amended Site Plan
63, 67, 71 East Main Street
Tax Map No. 7056-05-101917

Dear Chairman Pfister and Members of the Board:

Enclosed please find six (6) copies of the following regarding the Amended Site Plan for the above referenced property:

- Site Plan Drawing Set (9 Sheets Total), last revised January 30, 2024 (6 full scale copies, 6 reduced scale copies).
- Stormwater Pollution Prevention Plan (SWPPP), dated January 30, 2024.
- Correspondence from NYCDEP, dated January 8, 2024.
- Letter from Pawling Joint Sewer Commission, dated January 23, 2024.

The enclosed plans and report have been revised based on comments received from the planning board consultants. With regards to comments received from the Town Consulting Engineer, we offer the following:

Memorandum from Sara Drury, EIT, LaBella Associates, dated January 3, 2024:

Stormwater Pollution Prevention Plan

1. After further review of the project with the NYCDEP and based on the enclosed correspondence from Cynthia Garcia, the project does not require SWPPP approval from the NYCDEP.
2. Jantile Group, the project landscape architect, has reached out to the NYSDEC regarding the permitting requirements for the bog turtles. A determination will be provided with future submissions.
3. Comment addressed.
4. Figure 5 of the of the SWPPP has been revised to include the results from each infiltration test along with the total depth of the infiltration test hole.
5. The deep test were dug to a depth greater than 3-feet from the bottom of the proposed infiltration practice and verify the separation requirements to ledge rock and groundwater are met with the proposed practice. Therefore, we feel the depth of the test holes are acceptable.
6. Comment addressed.
7. Comment addressed.
8. Comment addressed.
9. Comment addressed.
10. Comment addressed.
11. Comment addressed.

12. Comment addressed.
13. Comment addressed.
14. Comment addressed.
15. Comment addressed.
16. Comment addressed.
17. Comment addressed.
18. Comment addressed.

Site Layout

1. The large box truck maneuvering into the loading area is intended to pull forward past the loading area and back into the space. Therefore the reverse movement into the loading area overlaps with the forward movement pulling out of the loading area. A callout has been added to the Vehicle Maneuvering Plan to clarify.
2. The project plans have been sent to the Fire Department and Christopher Maeder of Labella for their review and acceptance. A determination from the Fire Department will be provided upon receipt.

Grading

1. Comment addressed.
2. Comment addressed.

Utilities

1. Comment addressed.
2. Drawing D-3 has been revised to provide separate standard details for the proposed 3-ft and 4-ft First Defense hydrodynamic separators. Furthermore, the Drainage Table on Drawing GU-1 has been revised to provide the minimum required dimension from the top of slab elevation to the invert elevation for the proposed hydrodynamic separators per the corresponding standard detail from Hydro International.
3. Comment addressed.
4. Comment addressed.
5. Comment addressed.
6. The project plans have been sent to the Fire Department and Christopher Maeder of Labella for their review and acceptance. A determination from the Fire Department will be provided upon receipt.
7. Comment addressed.
8. Comment addressed.

Details

1. Comment addressed.
2. Comment addressed.
3. Comment addressed.
4. Comment addressed.
5. Comment addressed.
6. Comment addressed.

7. Our office is preparing a submission to the Dutchess County Department of Health for the review and approval of the proposed sewer connection. Correspondence from the Health Department will be provided to the Village of Pawling Planning Board upon receipt.

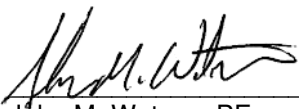
Additional Comments

1. The draft Notice of Intent in Appendix H of the SWPPP has been revised as requested.
2. In regards to the comments received from the NYCDEP in their letter dated December 11, 2023, we offer the following responses:
 - a. After further review of the project with the NYCDEP and based on the enclosed correspondence from Cynthia Garcia, the project does not require SWPPP approval from the NYCDEP.
 - b. Additional details have been provided on the project plans for the proposed sewer connection. Also, a letter from the Pawling Joint Sewer Commission dated January 23, 2024 is enclosed herewith confirming there is available capacity to convey and treat the anticipated wastewater flow from the subject project.
 - c. Comment noted. Erosion and sediment control measures are proposed on the project plans in accordance with the *New York Standards and Specifications for Erosion and Sediment Control*.
 - d. Comment noted. The project proposes to keep the excess parking spaces as paved asphalt. Appropriate stormwater management has been provided for the proposed impervious area.
3. Discussions with the Village and project team are ongoing regarding the proposed fire flow demand for the project and available capacity in the municipal distribution system.

Should you have any questions or comments regarding this information, please feel free to contact our office.

Very truly yours,

INSITE ENGINEERING, SURVEYING & LANDSCAPE ARCHITECTURE, P.C.

By: 
John M. Watson, PE
Senior Principal Engineer
JMW/ejp

Enclosures: Curt Johnson, RA, Jantile Goup Designs, LLC (via email)

Insite File No. 18135.100

Evan Pendleton

From: Garcia, Cynthia <CGarcia@dep.nyc.gov>
Sent: Monday, January 8, 2024 2:35 PM
To: PB Secretary
Cc: Evan Pendleton; John Watson
Subject: Pawling Commons

Hello Vivian,

The applicant's representative, Insite Engineering, has had a discussion with DEP staff and submitted to DEP Overlay Plans for review. The proposed soil disturbance is less than 2 acres. While the footprint of impervious surface totals over 40,000 square feet, the majority of the project site is already developed with existing impervious surfaces and thus the engineer was able to effectively demonstrate that less 40,000 square feet of *new* impervious surfaces are being proposed per planned redevelopment of the project site. As such, the action does not require DEP review and approval of a SWPPP.

This clarification is being provided to correct the SEQRA record.

Should you have any further question, feel free to reach out to me.

Thank you,

Cynthia Garcia | Bureau of Water Supply | SEQRA Coordination Section
465 Columbus Ave., Valhalla, NY 10595
(O) 914 749 5302 | (F) 914 749 5472 | cgarcia@dep.nyc.gov

Pawling Joint Sewer Commission

9 Memorial Ave.

Pawling, New York, 12564

Phone (845)855-9442

Fax (845)855-9317

Email: PJSC@villageofpawling.org

January 23, 2024

Mr. Curt Johnson
J. Groups Designs, LLC
63 East Main Street
Pawling, NY 12564

Re: Sewer Hook-up
63, 67 & 71 East Main Street, Pawling

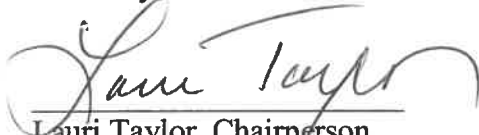
Dear Mr. Johnson:

Pawling Joint Sewer Commission has capacity to convey and treat the anticipated wastewater flow from Pawling Commons located at 63, 67 and 71 East Main St. Pawling NY (Tax ID # 134001-7056-05-101917). Further, PJSC accepts the owners estimated buildout flow of approximately 20,000 gallons per day and notes that while the project property is within NYC's Watershed, the PJSC's permitted outfall is to the Swamp River which isn't in the NYCDEP controlled watershed.

As a condition of the commitment to accept, treat and discharge wastewater from Pawling Commons, PJSC requires that both the existing lateral serving the building at 63 E. Main St and the lateral formerly serving the market be inspected and televised and the results of that inspection and copies of the video's be presented to PJSC's engineer for review. This inspection work will also document the location of all cleanouts, the slope of the laterals and the condition of the lateral. Any deficiencies noted will need to be corrected prior to issuance of the Certificate of Occupancy by the Village's code Enforcement Group.

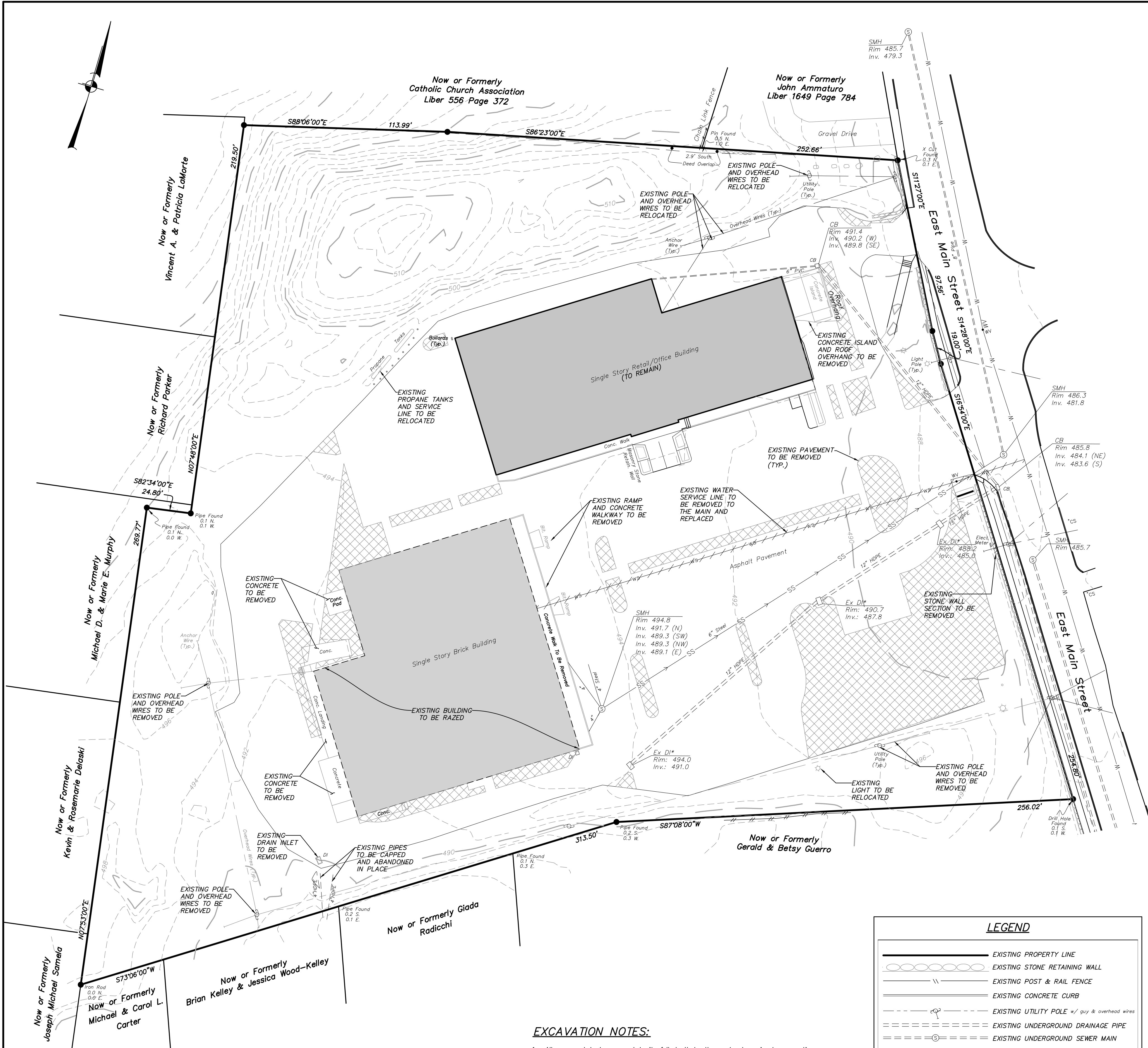
Finally, please submit, for approval by PJSC's engineer, an engineering detail and the location for the connection of the multi-family building (71 E. Main St.) lateral to the existing on site lateral sewer.

Sincerely,



Lauri Taylor, Chairperson
Pawling Joint Sewer Commission

Cc: Jonathan Soukup, Cedarwoods Engineering
Brian Soukup, Cedarwoods Engineering
Dan Stone, LaBella Associates
Chris Maeder, Village of Pawling Building Inspector



CONSTRUCTION NOTES:

- The contractor is advised that additional notes will be found on subsequent drawings and such notes, while pertaining to the specific drawings they are placed in, also supplement the construction notes listed hereon.
- All work and materials shall be in accordance with these plans and project specifications.
- The contractor shall notify the Engineer 72 hours prior to start of work.
- The subject project has coverage under the New York State Department of Environmental Conservation SPDES General Permit for Stormwater Discharges from Construction Activity, permit No. GP-0-20-001. As required by the permit all contractors and subcontractors will be required to sign a certification statement that they understand and agree to comply with the requirements of GP-0-20-001.
- The contractor shall have a representative onsite that is a NYSDEC Trained Contractor at all times site work is being performed under this contract. The contractor shall provide a contractor's certification as contained in the NYSDEC Construction Site Logbook to the project engineer upon start of construction.
- The contractor shall coordinate the layout of the work with the owner, and the project engineer, and eliminate all conflicts including but not limited to utility location conflicts, prior to commencement of any proposed work.
- The contractor shall coordinate their construction operations with the project engineer and any other contractors/subcontractors and construction activities occurring simultaneously on the property.
- The contractor shall be responsible for providing all power, water, and other resources necessary to complete the project work.
- Minimum OSHA site standards must be maintained including personal protective equipment and vests. The contractor shall be responsible for guarding and protecting all open excavations in accordance with the latest edition and current OSHA requirements.
- The contractor shall field verify all dimensions relative to the scope of work.
- The contractor shall stake out the limits of clearing and it shall be reviewed with the project engineer prior to the start of clearing operations. Existing trees to remain outside the limits of clearing shall be protected per the detail.
- It shall be the contractor's responsibility to identify and protect all underground utilities. The contractor shall contact Dig Safely New York at 811 or 1-800-362-7962 and any other required utility locators prior to the start of construction.
- The exact location, size, and type of the existing utilities may differ from what is shown hereon. The contractor shall field verify the location, size and type of the existing utilities by performing a test pit ahead of construction as necessary to permit revisions to meet existing utilities or relocate proposed utilities as required. Horizontal location and elevation of the existing utility as determined by test pit shall be provided to the project engineer.
- The contractor shall field verify the existing grades / utility locations prior to commencement of any work. Any discrepancy shall be reported to the project engineer when identified.
- The contractor shall perform all work with care so that any materials which are to remain in place, or which are to remain on the property, shall not be damaged. The contractor will be held responsible for all damage caused to existing utilities / features / facilities / vegetation during execution of the work not proposed to be modified or removed by these plans. All damage to any existing utilities / features / facilities / vegetation not proposed to be modified by the contract shall be repaired or replaced by the contractor to the satisfaction of the owner at no additional cost.
- Original condition shall mean the condition in which the feature was found (or better) at the start of construction.
- The contractor shall be responsible for the implementation and maintenance of erosion and sediment controls (shown or not) as necessary to prevent erosion and migration of sediment outside of the contract limit line or into the stormwater collection system. Erosion and sediment controls may include but are not limited to silt fence, stabilized construction entrance, berms and inlet protection. All erosion and sediment controls shall be installed in accordance with the New York State Standards and Specifications for Erosion and Sediment Control. Additional erosion and sediment controls may be required during construction by the project engineer. All disturbed areas shall be stabilized in accordance with the Erosion & Sediment Control Notes and details.
- Silt fence shall be installed parallel to the contours.
- Contractor is responsible for protecting soil stockpiles, trenches, and building excavations against weather. No additional fee will be paid to the contractor for removal and replacement of suitable soils due to degradation from weather related events.
- During execution of the work, the contractor shall be responsible for dewatering and control of surface water in accordance with the New York State Standards and Specifications for Erosion and Sediment Control. The New York State Standards and Specifications for Erosion and Sediment Control can be found at <http://www.dec.ny.gov/chemical/29066.html>.
- All existing pavement shall be cleaned and swept prior to the completion of construction.
- The contractor shall provide temporary construction fence for all work areas including the material storage/staging areas.
- All personal vehicles, materials, and construction equipment must be kept within the construction staging area. Use of additional onsite storage areas must be pre-authorized by the owner of the property.
- Topsoil and subsoil shall be stripped, screened, and stockpiled in locations shown for future use. The contractor must keep enough topsoil onsite for final restoration. Four inches of screened topsoil shall be placed and raked to finish grade over all disturbed areas not covered by pavement, concrete and/or gravel surfaces, unless otherwise noted.
- The contractor shall maintain existing grades unless otherwise noted.
- Contractor shall be responsible for removal of all excess rock, topsoil, subsoil, and construction debris from the site.
- There shall be no burning of construction and demolition (C&D) debris or stumps on site. All C&D debris and stumps must be removed by the contractor, and disposed of in accordance with all pertinent regulations.
- All proposed concrete drainage structures shall be precast concrete and all structures, frames, and grates are to meet H-20 loading requirements.
- Design Engineer to approve locations and elevations of all structures prior to placement.
- Unless otherwise shown on the drawings the contractor shall match the material, thickness and quality of all existing pavements that are to be replaced.
- The contractor will be responsible for the implementation of all maintenance and protection of traffic (MP&T) measures if necessary. MP&T shall include but not be limited to placement of traffic cones and warning signs around work zone. Safe and adequate pedestrian vehicular traffic flow shall be maintained at all times to the existing buildings, while the work is in progress.

DRAINAGE NOTE:

- Existing drain inlets noted with "*" obtained from previous design drawings by Insite Engineering, Surveying & Landscape Architecture, P.C. Contractor to verify elevations prior to start of construction.



LOCATION MAP

SCALE: 1" = 500'±

OWNER/APPLICANT:

KJ--Rant Realty LLC
100 Business Park Drive
Armonk, NY 10504

SITE DATA:

Zone: B1, Business 1
Total Acreage 4.2± AC
Tax Map No.: 7056-05-101917
Watershed: East Branch

GENERAL NOTES:

- Property line and existing features shown hereon are based on Survey of Property, prepared for KJ--Rant Realty LLC, prepared by Insite Engineering, Surveying, and Landscape Architecture, P.C., dated April 5, 2018.
- Topography shown hereon is based upon actual fieldwork performed by Insite Engineering, Surveying & Landscape Architecture, P.C. and completed December 12, 2005. Elevations shown conform to the National Geodetic Survey Standard Vertical Datum of 1929 (N.G.S.S.V.D. 1929). The contour interval is 2'. Supplemental topographic information on the north side of the site past the limits of existing pavement shown hereon taken from Dutchess County GIS Data.
- Existing poles and overhead wires on southern and western portions of the site to be removed and replaced with underground utilities. All electric, telephone, cable and other utilities to be installed in accordance with the installation of the underground utilities to be coordinated with the appropriate utility companies.
- It shall be the contractors responsibility to identify and protect all underground utilities. The contractor shall contact Dig Safely New York at 811, and any other required utility locators prior to the start of construction.
- All onsite rock removal to be done by a licensed and insured contractor. No rock processing shall be permitted onsite.
- The Contractor shall contact the Village Street Foreman prior to the start of any construction within the East Main Street right-of-way.
- Any retaining wall with a retained height of soil in excess of 4 feet shall require structural design drawings and calculations signed and sealed by a licensed professional engineer. The signed and sealed drawings and calculations must be provided to the consulting Town Engineer prior to the wall being constructed.
- Tree clearing can only be performed between October 1st and March 31st.

UTILITY NOTES:

- The locations of existing utilities, water, sewers, and drainage structures have been indicated based on the best available information. It is possible that the actual subsurface utilities and piping may vary from that indicated. Therefore, prior to starting work in any area, the contractor shall take the necessary steps to determine the locations of all existing underground piping, conduit and structures. The contractor shall carry out their operations in such a manner as to prevent interference with lines which are to remain. Any pipe or conduit disturbed in the course of contract shall be repaired by the contractor at no extra cost to the owner.
- Existing utility locations, sizes and elevations to be verified by contractor prior to the start of construction and any discrepancies reported to the project engineer immediately.
- Whenever a connection to an existing pipe or structure is shown, the contractor shall confirm existing pipe materials of construction, dimensions, and connection requirement prior to submitting materials for approval.
- Where interference with other utilities or construction are encountered during construction, the contractor may adjust the alignment or invert elevations of that system only at the direction of the project engineer.
- It shall be the contractor's responsibility to locate all overhead wires and utility poles, if any, in the vicinity of the proposed work. Furthermore, it is the contractor's responsibility to make the necessary arrangements to perform the work in the vicinity of these overhead wires.
- The contractor shall exercise extreme caution when working adjacent to active power and communication lines to prevent damage to these lines. The contractor shall hand excavate test pits to expose these lines prior to performing any other excavation work in the area. The contractor shall repair at their expense, any power or communication interruption immediately.
- Should any utility poles require bracing or relocating to accomplish the proposed work, it shall be the contractor's responsibility to make the appropriate arrangements to properly secure or relocate such utility poles. The contractor will not receive any additional payment for utility pole bracing or relocating. The contractor must include any costs for such work within their bid submittal.

2	1-30-24	REVISED FOR PLANNING BOARD SUBMISSION	JUS
1	12-29-23	REVISED FOR PLANNING BOARD SUBMISSION	EJP
NO.	DATE	REVISION	BY

3 Garrett Place
Carmel, NY 10512
(845) 225-9690
(845) 225-9717 fax
www.insite-eng.com

PROJECT: PAWLING COMMONS ALTERNATE SITE PLAN EXPANSION 63-71 EAST MAIN STREET, VILLAGE OF PAWLING, DUTCHESS CO., NY			
DRAWING: EXISTING CONDITIONS & REMOVALS PLAN			
PROJECT NUMBER	18135.100	PROJECT MANAGER	J.M.W.
DATE	10-31-23	DRAWN BY	I.B.
SCALE	1" = 30'	CHECKED BY	E.J.P.
DRAWING NO.	SHEET		
EX-1			1/9

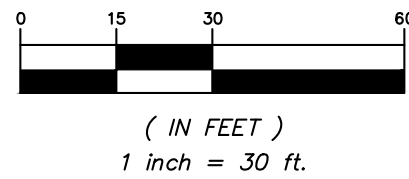
ALTERATION OF THIS DOCUMENT, UNLESS UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, IS A VIOLATION OF SECTION 7209 OF ARTICLE 145 OF THE EDUCATION LAW.

EXCAVATION NOTES:

- All pavement to be saw cut to its full depth by the contractor prior to excavation.
- The Contractor shall provide sheeting, shoring, a benched excavation, or a sloped excavation for all excavations 5.0 feet or greater in depth.
- All sheeting and shoring protective systems used for excavation shall be designed and stamped by a NYS licensed Professional Engineer.
- Where construction crosses or is adjacent to existing utility lines (fuel, water gas, telephone, electric or communication), the contractor shall carefully hand excavate so as to locate, mark and protect the utility lines against disturbance or damage by providing adequate support and protection as approved by the Engineer. The contractor shall repair any power or communication interruption immediately, at no additional cost to the owner.
- Trench excavation outside of temporary construction fence is to be backfilled on the same day as excavation. Temporary orange construction fence is required around these work areas for on going work.
- All utility trenching in and adjacent to roadways shall be backfilled prior to the end of the work day, unless otherwise authorized by the Engineer. Item 4 shall be temporarily brought to the surface of the utility trench flush with the adjacent pavement and maintained until the final pavement is installed. Road plates, if used, shall be designed to meet H25 loading requirements.

LEGEND	
	EXISTING PROPERTY LINE
	EXISTING STONE RETAINING WALL
	EXISTING POST & RAIL FENCE
	EXISTING CONCRETE CURB
	EXISTING UTILITY POLE w/ guy & overhead wires
	EXISTING UNDERGROUND DRAINAGE PIPE
	EXISTING UNDERGROUND SEWER MAIN
	EXISTING UNDERGROUND SEWER SERVICE
	EXISTING UNDERGROUND WATER MAIN
	EXISTING UNDERGROUND WATER SERVICE
	EXISTING CATCH BASIN
	EXISTING SEWER MANHOLE
	EXISTING POST MOUNTED LIGHT
	EXISTING WATER VALVE
	EXISTING 10' CONTOUR
	EXISTING 2' CONTOUR

GRAPHIC SCALE



GENERAL NOTES FOR ACCESSIBLE ROUTES:

- Accessible routes to and within a site shall be provided from accessible building entrances to accessible pedestrian walkways, accessible facilities, accessible site elements and spaces, accessible parking spaces, access aisles, passenger loading zones, and to the public way, including public transportation stops, public streets and sidewalks.
- These sheets are in accordance with the Americans with Disabilities Act (ADA) and the NYS Building Code for Site Accessibility.
- Dimensions shown in the details as minimums and maximums are the limits for design and field layout. Facilities shall not be constructed with values outside the limits for work acceptance. See table "Design Element Tolerances" on this sheet.
- To check field layout and to verify work acceptance, all slopes and grades will be measured with a 4' long digital level using at least two readings. Where the readings vary, the measurements will be averaged. Grade (running slope) will be measured along the centerline and offset 1' to 1'-6" from the centerline. Cross slopes will be measured perpendicular to centerline at 5' to 10' intervals.
- Grade (running slopes) are measured in the direction of pedestrian travel. Cross slopes are measured perpendicular to the direction of pedestrian travel.
- Joints between sidewalks, curbs, turning spaces and roadways shall be flush and free from abrupt vertical changes greater than 1/4". Vertical surface discontinuities between 1/4" and 1/2" shall be beveled with a slope not steeper than 1V:2H. The bevel shall be applied across the entire joint.
- Sidewalks are connected to roadways by either blended transitions or curb ramps. Blended transitions are connections between the sidewalk level and the roadway level that have a maximum grade (running slope) of 5.0% and transitions greater than 5.0% are considered curb ramps.
- Curb ramps and blended transitions may require the installation of detectable warnings. See additional "Detectable Warning" notes on this sheet, and sidewalk and curb ramp details included in the site plan set.
- Vertical alignment shall be generally planar. Grade breaks within the pedestrian access route shall be perpendicular to the direction of travel and shall not be rounded.
- Sidewalk grade (running slope) shall not exceed 4.5% for design and layout, except when matching into existing sidewalk or when the highway grade is steeper. When adjacent road grade is greater than 5.0%, the sidewalk grade shall not exceed the adjacent road grade.
- The cross slope of pedestrian access routes shall be 1.5% maximum for design and layout, and 2.0% maximum for work acceptance. The following exceptions are allowed:
 - Where pedestrian street crossings are provided at intersections without yield or stop control, or where there is any traffic signal without a flashing red, the cross slope of a pedestrian access route contained within a street crossing shall be 4.5% maximum for design and layout, and 5.0% maximum for work acceptance.
 - Where midblock pedestrian street crossings are provided, the cross slope of a pedestrian access route contained within a midblock street crossing shall be permitted to equal the street or highway grade.
- Marked Accessible Parking Spaces and Access Aisles:
 - Dimensions - accessible parking spaces shall be at least 8' wide and shall have an adjacent access aisle 8' wide measured perpendicular to the stall stripe to accommodate vans with lifts.
 - Common access aisles for 90° parking - two accessible parking spaces may share a common access aisle. For acute angled parking, such as 60° parking, or where one way driveway aisles would prevent vans with passenger side lifts from backing into accessible spaces, an accessible access aisle must be provided for each accessible parking space, width of access aisles and parking spaces are measured perpendicular to the striping.
 - Signing - each accessible parking space shall be marked by permanently installed signs which display the International Symbol of Access. Each access aisle shall be marked by permanently installed signs indicating that stopping is not permitted in the aisle. Signs shall not block the accessible clear width of adjacent walkways. Signs located where they may be hit by vehicles must be provided for each accessible parking space, width of access aisles and parking spaces are measured perpendicular to the striping.
 - Surface slopes - slopes at accessible parking spaces, access aisles, and adjoining walkways shall be 1.5% maximum in any direction for design and layout, and 2.0% maximum for work acceptance, while providing positive drainage.
 - Overhead clearance - vehicle access routes to and from accessible parking spaces, including in garages and open parking structures, shall have a minimum vertical clearance of 8'-2".
 - Pavement marking colors - required accessible parking space and access aisle striping and other optional pavement markings, such as the International Symbol of Access, shall be painted white or blue.
 - A smooth, flush transition must be provided between all pedestrian walkways, accessible parking spaces and aisles.
- Where a change in direction is required to access a curb ramp from an access aisle, a turning space 4'-0" x 4'-0" minimum shall be provided at the base or the top of curb ramp, as applicable. The cross slope of turning spaces shall not exceed 1.5% in any direction for design and layout, and 2.0% for work acceptance, while providing positive drainage.
- Sidewalk Curb Ramps:
 - Walking surfaces of sidewalk curb ramps shall be stable, firm and slip resistant.
 - The minimum width of a curb ramp shall be 4'-0". Refer to site plans and sidewalk curb ramp details for curb ramp widths.
 - The grade (running slope) of a curb ramp shall be a minimum of 5.0%. The grade for design and layout shall be 7.5% maximum, and 8.3% maximum for ADA accessibility and work acceptance.
 - The cross slope of the curb ramp shall be as flat as possible and still provide positive drainage. The cross slope of a curb ramp shall not exceed 1.5% for design and layout, and 2.0% maximum for work acceptance.
 - Where provided, side flares for curb ramps where a pedestrian circulation path crosses the curb ramp shall be 3.5% maximum for design and layout, and 10.0% maximum for work acceptance. The slope of flared sides is measured parallel to the curb line.
 - Curb ramps at marked crosswalks shall be wholly contained within the markings, excluding any flared sides.
 - Where a change in direction is required to utilize a curb ramp, a turning space shall be provided at the base or the top of curb ramp as applicable. Turning spaces shall be permitted to overlap clear spaces.
 - Where there are no vertical constraints at the back of sidewalk, (e.g., vertical curb, buildings, fences) the turning space dimensions shall be 4'-0" x 4'-0" minimum. Where the turning space is constrained at the back of sidewalk, the turning space shall be 4'-0" x 5'-0" minimum. The 5'-0" dimension shall be provided perpendicular to the constraint.
 - Turning spaces shall not be designed with cross slope greater than 1.5% in any direction for design and layout, while providing positive drainage. The maximum cross slope for work acceptance is 2.0%.
 - Beyond the bottom grade break, a clear space of 4'-0" x 4'-0" minimum shall be provided within the width of the pedestrian crosswalk, and outside the parallel vehicle travel lane. The clear space may overlap turning spaces, detectable warning surfaces, and drop curb.
- Detectable Warning:
 - Detectable warning surfaces shall be provided at curb ramps and blended transitions at pedestrian street crossings.
 - Detectable warning surfaces shall be provided where the pedestrian access route crosses driveways with signal, yield or stop control, while providing positive drainage. Detectable warning surfaces shall not be provided at crossings of uncontrolled driveway aprons.
 - Some detectable warning products require a concrete border for proper installation. If required, the border shall not exceed 2". Where the back of curb edge is tooled to provide a radius, the border dimension shall be measured from the inside edge of the curb radius.
 - The details provided are not drawn to scale. The quantity of domes depicted on the detectable warning unit is for illustration only. The size of the detectable warning field shall be 2'-0" minimum in the direction of travel and shall extend the full width of the curb ramp or flush surface, excluding any flared sides. The width of the detectable warning field includes a concrete border, if provided.
- Walkways Along an Accessible Route:
 - Walking surfaces shall be stable, firm and slip resistant.
 - Vertical changes in level along walking surface shall not exceed 1/4". Changes in level greater than 1/4" in height and not more than 1/2" shall be beveled with a slope not steeper than 1V:2H.
 - The running slope of the walking surfaces shall not be steeper than 4.5%.
 - The cross slope of a walking surface shall not be steeper than 1.5%.
 - The clear width of an accessible route shall be 3'-0" minimum.
 - An accessible route with a clear width less than 5'-0" shall provide passing spaces at intervals of 200' maximum. Passing spaces shall be 5'-0" minimum by 5'-0" minimum.
- Ramps along an accessible route:
 - Ramp runs shall have a running slope greater than 5.0%.
 - Vertical changes in level along walking surface shall not exceed 1/4". Changes in level greater than 1/4" in height and not more than 1/2" shall be beveled with a slope not steeper than 1V:2H.
 - The maximum rise for any ramp is 30'-0".
 - Ramp runs shall have landings at the bottom and top of each ramp run. Landings shall have a slope not to exceed 1.5% for design and layout, and 2.0% maximum for work acceptance, while providing positive drainage. Landings shall have a clear length and width of 5'-0" minimum.
 - Adjacent finished grades along sides of ramp and landings shall not have a vertical drop-off greater than 1/2" within 10' of the edge of the concrete. If the adjacent finished grades do not meet this criterion, a 4" minimum high curb shall be provided (see plan for location).
 - If drop-off to adjacent grade is 2'-6" or greater, "guards" will need to be provided to meet the requirements as specified in the NYS Building Code latest edition.
 - Refer to concrete handicap ramp detail for additional information.

LEGEND

- EXISTING PROPERTY LINE
- EXISTING EASEMENT
- EXISTING STONE RETAINING WALL
- EXISTING POST & RAIL FENCE
- EXISTING CONCRETE CURB
- EXISTING UTILITY POLE w/ guy & overhead wires
- EXISTING UNDERGROUND DRAINAGE PIPE
- EXISTING UNDERGROUND SEWER MAIN
- EXISTING UNDERGROUND SEWER SERVICE
- EXISTING UNDERGROUND WATER MAIN
- EXISTING UNDERGROUND WATER SERVICE
- EXISTING CATCH BASIN
- EXISTING SEWER MANHOLE
- EXISTING POST MOUNTED LIGHT
- EXISTING WATER VALVE
- EXISTING 10' CONTOUR
- EXISTING 2' CONTOUR
- EXISTING SPOT GRADE
- PROPOSED WATER GATE VALVE
- PROPOSED 10' CONTOUR
- PROPOSED 2' CONTOUR
- PROPOSED SPOT ELEVATION
- PROPOSED TOP OF WALL & BOTTOM OF WALL ELEVATIONS
- PROPOSED TOP OF CURB & BOTTOM OF CURB ELEVATIONS
- PROPOSED SEWER MANHOLE
- PROPOSED DRAINAGE MANHOLE
- PROPOSED CATCH BASIN
- PROPOSED END SECTION
- PROPOSED DRAINAGE PIPE
- PROPOSED CONCRETE CURB
- PROPOSED 6" DIP WATER SERVICE LINE
- PROPOSED ELECTRIC SERVICE LINE
- PROPOSED 6" PVC SDR 35 SEWER SERVICE LINE
- PROPOSED CURB STOP
- PROPOSED GATE VALVE
- PITCH TO DRAIN
- PROPOSED DOOR LOCATION

DESIGN ELEMENT TOLERANCES

ELEMENT	DESIGN AND FIELD LAYOUT LIMIT	LIMIT FOR WORK ACCEPTANCE
SIDEWALK/RAMP CROSS SLOPE - SEE NOTES 11, 13, & 16	1.5% MAX. *	2.0% MAX.
SIDEWALK GRADE (RUNNING SLOPE) - SEE NOTES 10 & 13	4.5% MAX.	5.0% MAX.
CURB RAMP GRADE (RUNNING SLOPE) - SEE NOTE 13	7.5% MAX.	8.3% MAX.
BLENDED TRANSITION GRADE (RUNNING SLOPE) - SEE NOTE 7	4.5% MAX.	5.0% MAX.
ACCESSIBLE PARKING SPACES & ACCESS AISLES (SURFACE SLOPES - ALL DIRECTIONS) - SEE NOTE 12	1.5% MAX. *	2.0% MAX.
RAMP (RUNNING SLOPE) - SEE NOTE 16	7.5% MAX.	8.3% MAX.

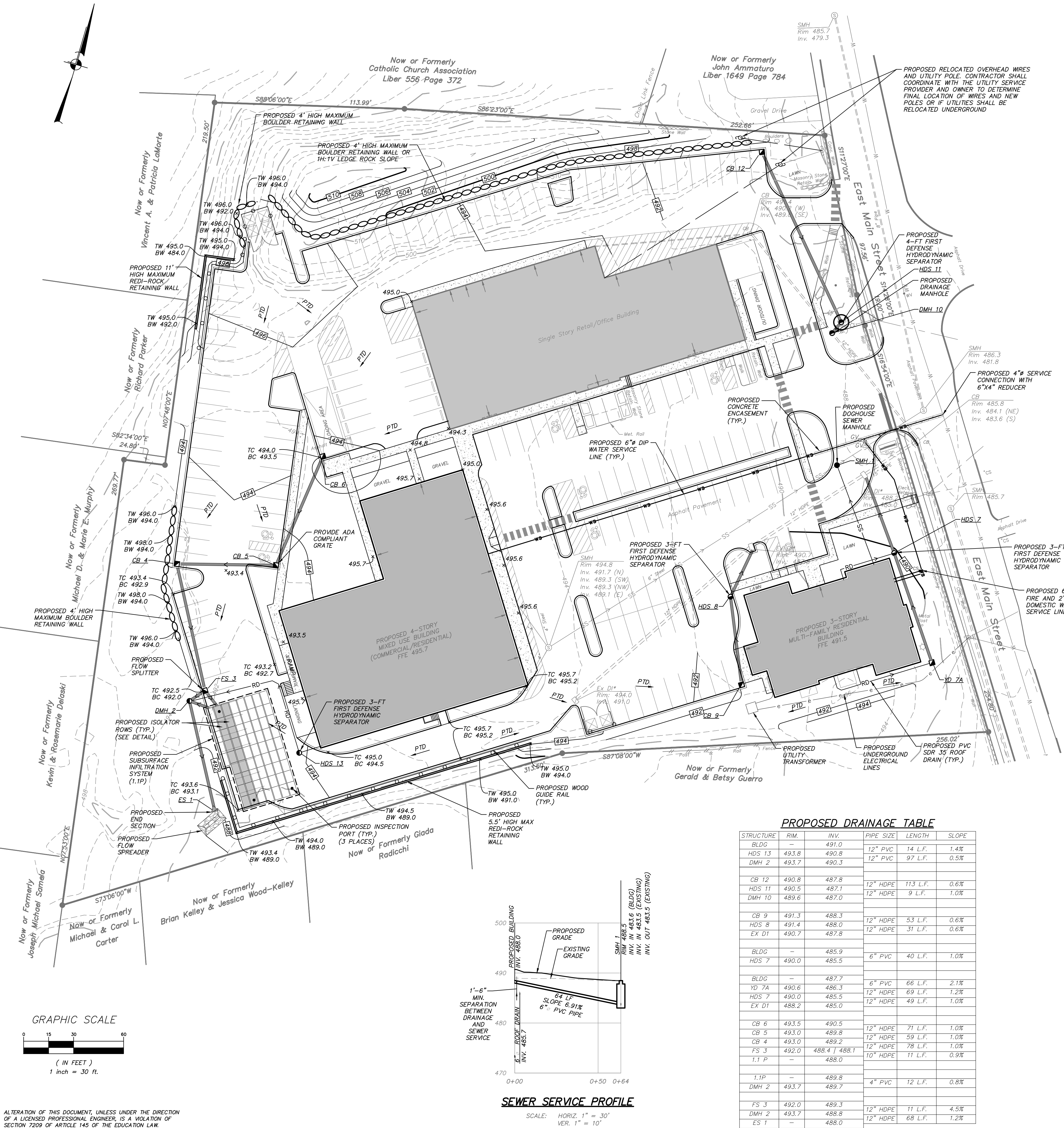
* While providing positive drainage.

2	1-30-24	REVISED FOR PLANNING BOARD SUBMISSION	JUS
1	12-29-23	REVISED FOR PLANNING BOARD SUBMISSION	EUP
NO.	DATE	REVISION	BY

INSITE
ENGINEERING, SURVEYING &
LANDSCAPE ARCHITECTURE, P.C.

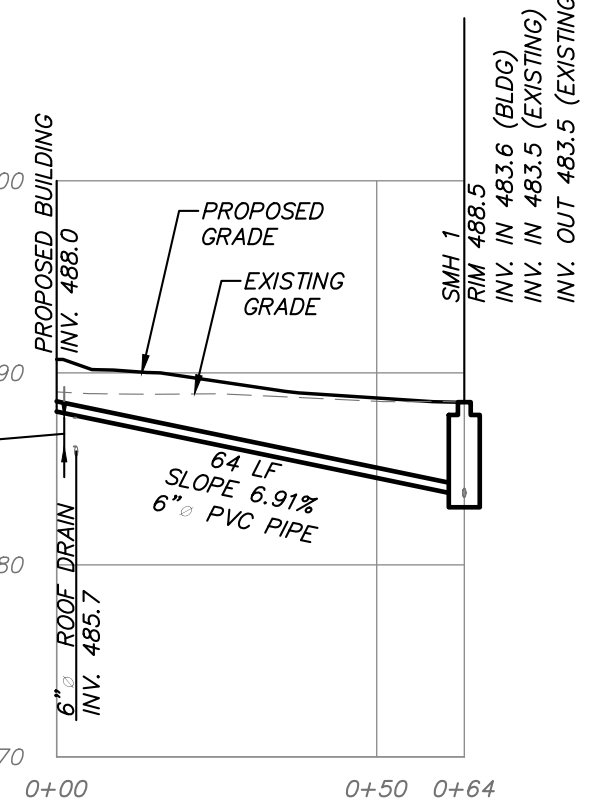
3 Garrett Place
Carmel, NY 10512
(845) 225-9690
(845) 225-9717 fax
www.insite-eng.com

PROJECT:	PAWLING COMMONS ALTERNATE SITE PLAN EXPANSION	63-71 EAST MAIN STREET, VILLAGE OF PAWLING, DUTCHESS CO., NY
DRAWING:	GRADING, DRAINAGE & UTILITY PLAN	
PROJECT NUMBER	18135.100	PROJECT MANAGER J.M.W.
DATE	10-31-23	DRAWN BY I.B.
SCALE	1" = 30'	CHECKED BY E.J.P.
DRAWING NO.	GU-1	SHEET 2
		9



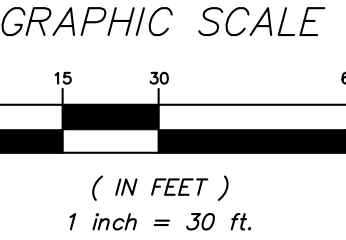
PROPOSED DRAINAGE TABLE

STRUCTURE	RIM	INV.	PIPE SIZE	LENGTH	SLOPE
BLDG	-	491.0	12" PVC	14 L.F.	1.4%
HDS 13	493.8	490.8	12" PVC	97 L.F.	0.5%
DMH 2	493.7	490.3			
CB 12	490.8	487.8			
HDS 11	490.5	487.1	12" HDPE	113 L.F.	0.6%
DMH 10	489.6	487.0	12" HDPE	9 L.F.	1.0%
CB 9	491.3	488.3			
HDS 8	491.4	488.0	12" HDPE	53 L.F.	0.6%
EX D1	490.7	487.8	12" HDPE	31 L.F.	0.6%
BLDG	-	485.9			
HDS 7	490.0	485.5	6" PVC	40 L.F.	1.0%
BLDG	-	487.7			
YD 7A	490.6	486.3	6" PVC	66 L.F.	2.1%
HDS 7	490.0	485.5	12" HDPE	69 L.F.	1.2%
EX D1	488.2	485.0	12" HDPE	49 L.F.	1.0%
CB 6	493.5	490.5	12" HDPE	71 L.F.	1.0%
CB 5	493.0	489.8	12" HDPE	59 L.F.	1.0%
CB 4	493.0	489.2	12" HDPE	78 L.F.	1.0%
FS 3	492.0	488.4	10" HDPE	11 L.F.	0.9%
1.1 P	-	488.0			
1.1P	-	489.8	4" PVC	12 L.F.	0.8%
DMH 2	493.7	489.7			
FS 3	492.0	489.3	12" HDPE	11 L.F.	4.5%
DMH 2	493.7	488.8	12" HDPE	68 L.F.	1.2%
ES 1	-	488.0			

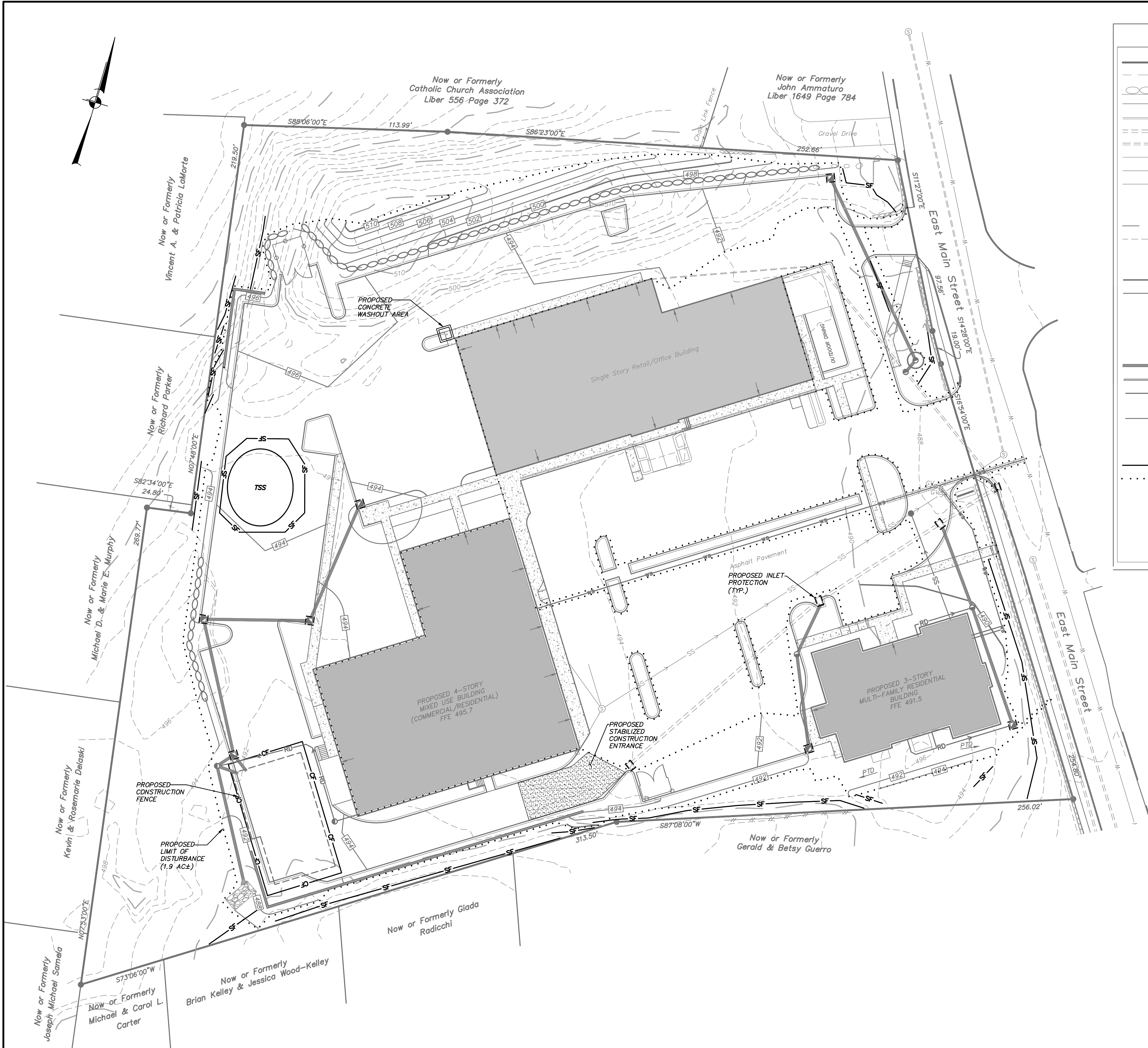


SEWER SERVICE PROFILE

SCALE: HORIZ. 1" = 30'
VER. 1" = 10'



ALTERATION OF THIS DOCUMENT, UNLESS UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, IS A VIOLATION OF SECTION 7209 OF ARTICLE 145 OF THE EDUCATION LAW.



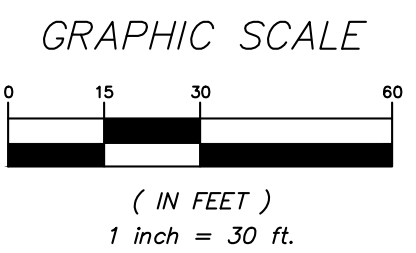
LEGEND

- EXISTING PROPERTY LINE
- EXISTING EASEMENT
- EXISTING STONE RETAINING WALL
- EXISTING POST & RAIL FENCE
- EXISTING CONCRETE CURB
- EXISTING UNDERGROUND DRAINAGE PIPE
- EXISTING UNDERGROUND SEWER MAIN
- EXISTING UNDERGROUND SEWER SERVICE
- EXISTING UNDERGROUND WATER MAIN
- EXISTING UNDERGROUND WATER SERVICE
- EXISTING CATCH BASIN
- EXISTING SEWER MANHOLE
- EXISTING 10' CONTOUR
- EXISTING 2' CONTOUR
- EXISTING SPOT GRADE
- PROPOSED WATER GATE VALVE
- PROPOSED 10' CONTOUR
- PROPOSED 2' CONTOUR
- PROPOSED SEWER MANHOLE
- PROPOSED DRAINAGE MANHOLE
- PROPOSED CATCH BASIN
- PROPOSED END SECTION
- PROPOSED DRAINAGE PIPE
- PROPOSED CONCRETE CURB
- PROPOSED WATER SERVICE LINE
- PROPOSED ELECTRIC SERVICE LINE
- PROPOSED SEWER SERVICE LINE
- PITCH TO DRAIN
- PROPOSED DOOR LOCATION
- PROPOSED SILT FENCE
- PROPOSED LIMITS OF DISTURBANCE
- PROPOSED TEMPORARY SOIL STOCKPILE
- PROPOSED STABILIZED CONSTRUCTION ENTRANCE
- PROPOSED DRAINAGE STRUCTURE W/ INLET PROTECTION

- EROSION & SEDIMENT CONTROL NOTES:**
- The Erosion and Sediment Control Plan is only to be referred to for the installation of erosion and sediment control measures. For all other construction related activities, including, but not limited to, grading and utilities, refer to the appropriate drawings.
 - Each contractor or subcontractor responsible for soil disturbance shall have a NYSDEC trained contractor onsite during soil disturbing activities. The NYSDEC trained contractor will be responsible to comply with the stormwater pollution prevention plan and for the implementation and maintenance of erosion and sediment control measures on this site prior to and during construction. The NYSDEC trained contractor shall sign a certification statement required by GP-0-20-001.
 - All construction activities involving the removal or disposition of soil are to be provided with appropriate protective measures to minimize erosion and contain sediment disposition within. Minimum soil erosion and sediment control measures shall be implemented as shown on the plans and shall be installed in accordance with "New York Standards and Specifications For Erosion and Sediment Control," latest edition.
 - Wherever feasible, natural vegetation should be retained and protected. Disturbance shall be minimized in the areas required to perform construction. No more than 5 acres of unprotected soil shall be exposed at any one time.
 - When land is exposed during development, the exposure shall be kept to the shortest practical period of time, but in no case more than 7 days after the construction activity in that portion of the site has ceased. Disturbance shall be minimized in the areas required to perform construction.
 - All construction vehicles shall be kept clear of the watercourses and wetland control areas outside the areas of proposed development. Silt fence and orange construction fence shall be installed in the areas where the grading is in close proximity of the watercourses or wetland control areas.
 - The stabilized construction entrances, silt fence, and orange construction fence shall be installed as shown on the plans prior to beginning any clearing, grubbing or earthwork.
 - All topsoil to be stripped from the area being developed shall be stockpiled and immediately seeded for temporary stabilization. Ryegrass (annual or perennial) at a rate of 30 lbs. per acre shall be used for temporary seeding in spring, summer or early fall. "Aristoak" Winter Rye (cereal rye) shall be used for temporary seeding in late fall and winter.
 - Any graded areas not subject to further disturbance or construction traffic shall, within 7 days of final grading, receive permanent vegetation cover in combination with a suitable mulch. All seeded areas to receive a minimum 4" topsoil (from stockpile area) and be seeded and mulched between March 21 and May 20 or between August 15 and October 15 or as directed by project representative, with specified seed mixes as shown in the General Site Seeding Notes.
 - Mulch: Salt hay or small grain straw applied at a rate of 90 lbs./1000 S.F. or 2 tons/acre, to be applied and anchored according to "New York Standards and Specification For Erosion and Sediment Control," latest edition.
 - Grass seed mix may be applied by either mechanical or hydroseeding methods. Seeding shall be performed in accordance with the current edition of the "NYSDEC Standard Specification, Construction and Materials, Section 610-3.02, Method No. 1". Hydroseeding shall be performed using materials and methods as approved by the site engineer.
 - Cut or fill slopes steeper than 2:1 shall be stabilized immediately after grading with Curlex I Single Net Erosion Control Blanket, or approved equal.
 - Paved roadways shall be kept clean at all times.
 - The site shall at all times be graded and maintained such that all stormwater runoff is diverted to soil erosion and sediment control facilities.
 - All storm drainage outlets shall be stabilized, as required, before the discharge points become operational.
 - Stormwater from disturbed areas must be passed through erosion control barriers before discharge beyond disturbed areas or discharged into other drainage systems.
 - Erosion and sediment control measures shall be inspected and maintained on a daily basis by the NYSDEC Trained Contractor, to insure that channels, temporary and permanent ditches and pipes are clear of debris, that embankments and berms have not been breached and that all straw bales and silt fences are intact. Any failure of erosion and sediment control measures shall be immediately repaired by the contractor and inspected for approval by the site engineer.
 - Dust shall be controlled by sprinkling or other approved methods as necessary, or as directed by the trained contractor or site engineer.
 - Cut and fills shall not endanger adjoining property, nor divert water onto the property of others.
 - All fills shall be placed and compacted in 6" lifts to provide stability of material and to prevent settlement.
 - The NYSDEC Trained Contractor shall inspect downstream conditions for evidence of sedimentation on a weekly basis and after rainstorms.
 - As warranted by field conditions, special additional erosion and sediment control measures, as specified by the site engineer and/or the Town Engineer shall be installed by the contractor.
 - Erosion and sediment control measures shall remain in place until all disturbed areas are suitably stabilized.
 - After completion of the site improvements, the owner will assume responsibility for maintenance of the roads, parking lots, drainage systems and stormwater facilities. Each spring the paved areas shall be cleaned to remove the winter accumulation of traction sand. After this is completed all drain inlet and catch basin sumps should be cleaned. All pipes should be checked for debris and blockage and cleaned as required. During the cleaning process, the drain inlets, catch basins and pipes should be inspected for structural integrity and overall condition. Repairs and/or replacements should be made as required.
 - Inspection of the stormwater practices should be performed every 6 months and after large storm events. These inspections should, at a minimum, check the outlet pipes for blockage and the general overall integrity of the basin and appurtenances.
 - Refer to the Stormwater Pollution Prevention Plan for additional details regarding long-term maintenance of the storm drainage facilities.
 - Cover all soil stockpiles on asphalt areas with tarps in lieu of silt fence.

- CONSTRUCTION SEQUENCE:**
- Install stabilized construction entrance/anti-tracking pad at driveway entrance.
 - Install silt fence in general locations indicated on the plan and cordon off infiltration area with construction fence.
 - Begin removal of existing asphalt pavement in area of proposed multi-family building.
 - Begin excavation and construction of multi-family building.
 - Install roof drains, hydrodynamic separator and water/sewer service connections for multi-family building.
 - Begin demolition of existing building.
 - Begin clearing and grubbing operations associated with parking lot expansion.
 - Strip and stockpile topsoil on site for later use in lawn and landscape areas.
 - Begin construction of proposed mixed use building.
 - Install drainage on north and west side of site including subsurface infiltration system and hydrodynamic separator. Infiltration system shall remain offline until all contributing areas are stabilized.
 - Begin construction of parking lot expansion on north and west side of site.
 - Upon completion of grading operations, install finished driveway surfaces.
 - Topsoil, seed, and mulch all disturbed areas as soon as practical in accordance with the Erosion and Sediment Control Notes contained on this sheet.
 - Upon final stabilization, remove all temporary erosion and sediment control facilities.

ALTERATION OF THIS DOCUMENT, UNLESS UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, IS A VIOLATION OF SECTION 7209 OF ARTICLE 145 OF THE EDUCATION LAW.



2	1-30-24	REVISED FOR PLANNING BOARD SUBMISSION	JUS
1	12-29-23	REVISED FOR PLANNING BOARD SUBMISSION	EUP
NO.	DATE	REVISION	BY

INSITE
ENGINEERING, SURVEYING &
LANDSCAPE ARCHITECTURE, P.C.

3 Garrett Place
Carmel, NY 10512
(845) 225-9690
(845) 225-9717 fax
www.insite-eng.com

PROJECT: **PAWLING COMMONS
ALTERNATE SITE PLAN EXPANSION**
63-71 EAST MAIN STREET, VILLAGE OF PAWLING, DUTCHESS CO., NY

DRAWING: **EROSION AND SEDIMENT
CONTROL PLAN**

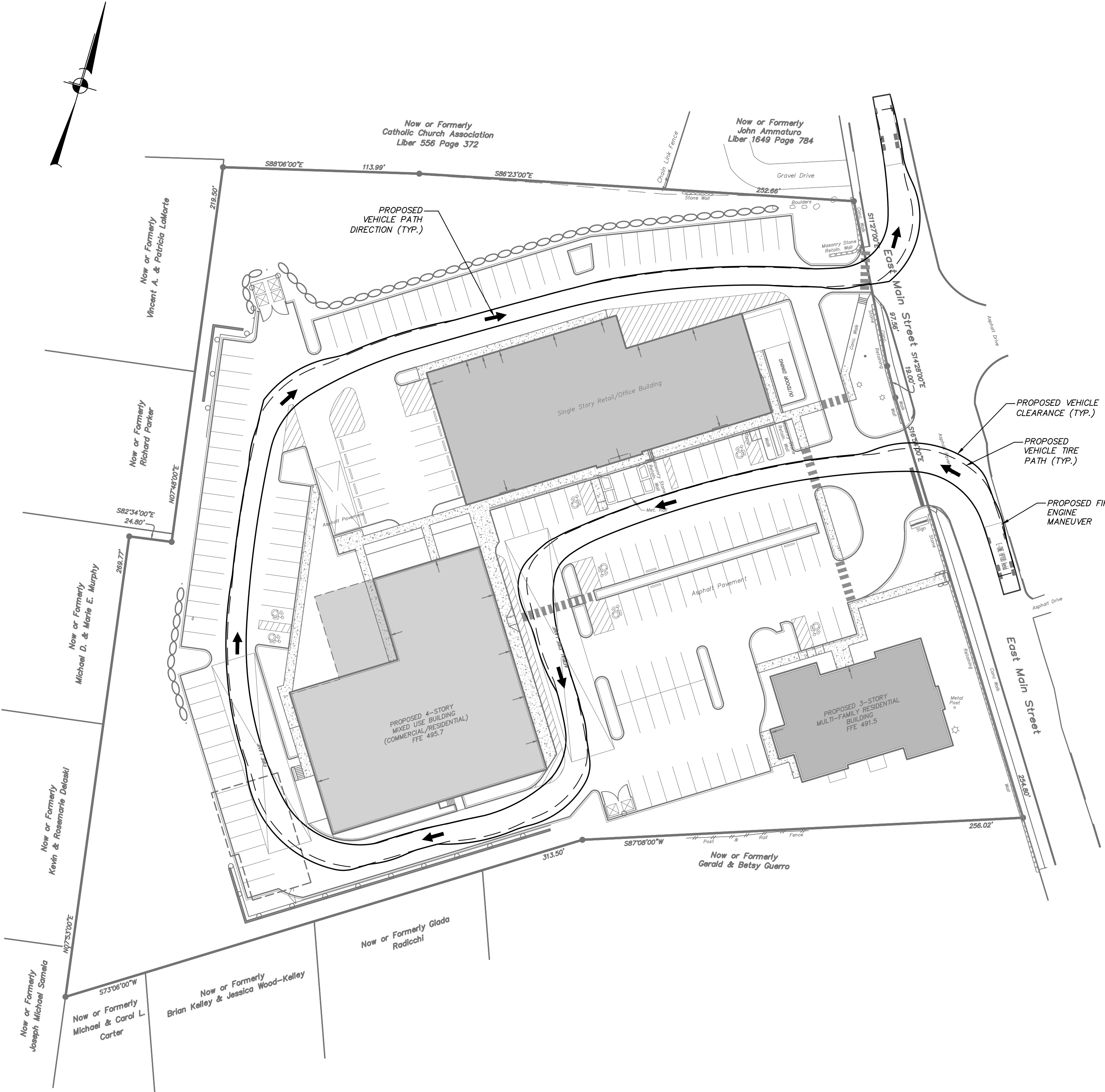
PROJECT NUMBER	18135.100	PROJECT MANAGER	J.M.W.	DRAWING NO.		SHEET	
DATE	10-31-23	DRAWN BY	I.B.				
SCALE	1" = 30'	CHECKED BY	E.J.P.				

EC-1 3 9

Z:\VIEW\835000\PAWLING COMMONS\03 ECL.dwg, 1/29/2024, 4:59:01 PM, gpendleton, 11

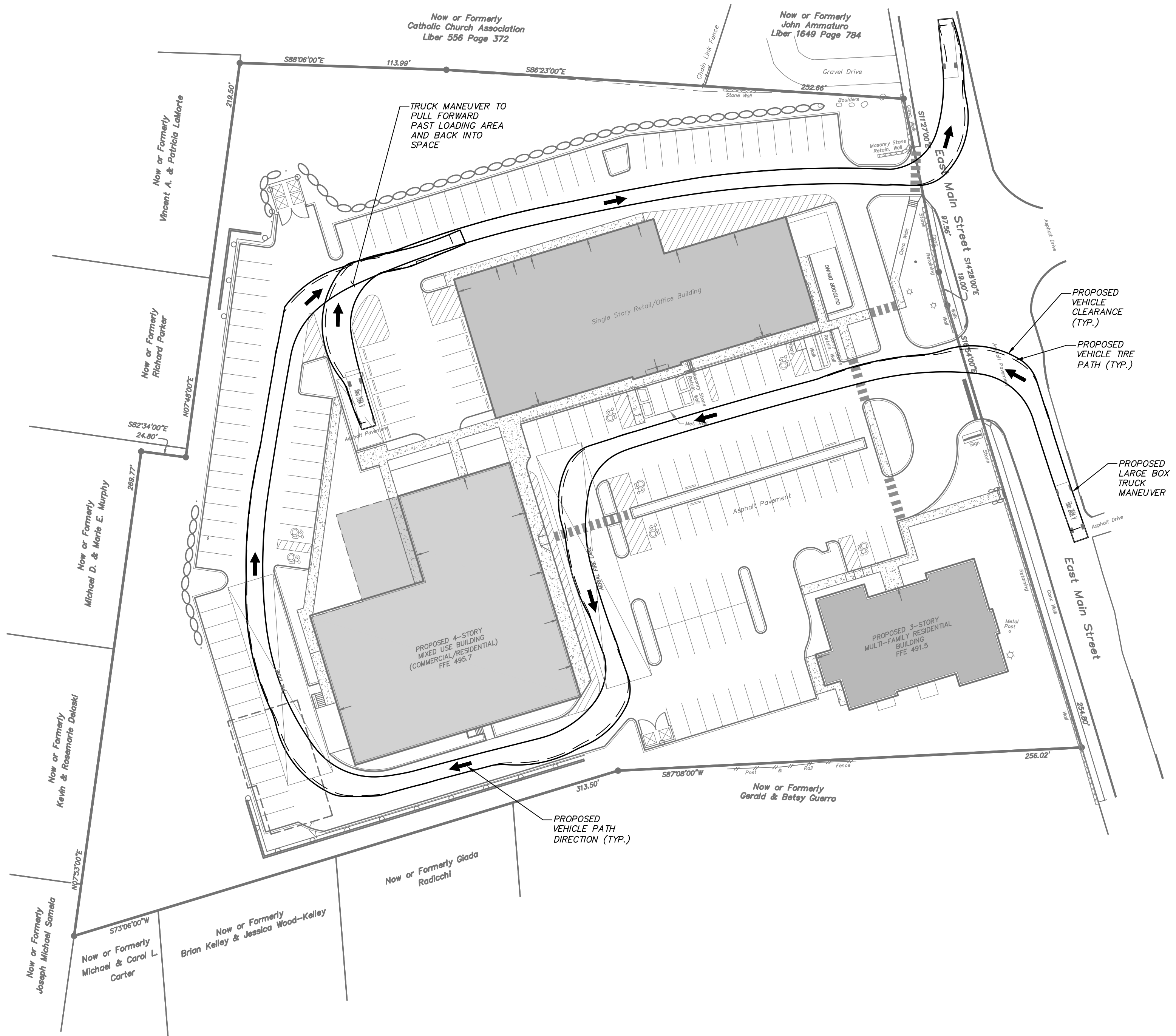
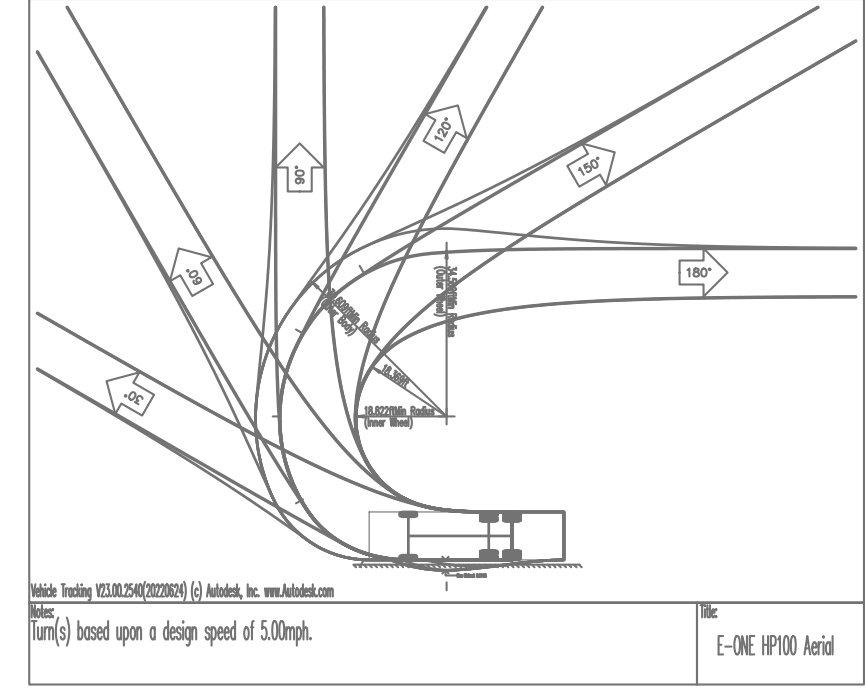
Z:\E\181351001 Pawling Commons\04 VM-1.dwg, 1/29/2024, 3:02:28 PM, gspeed.ctb, 11

ALTERATION OF THIS DOCUMENT, UNLESS UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, IS A VIOLATION OF SECTION 7209 OF ARTICLE 145 OF THE EDUCATION LAW.



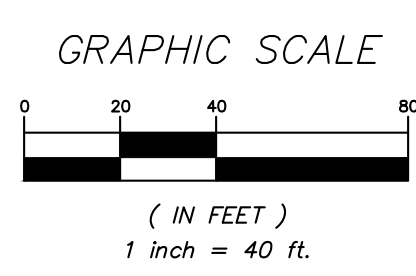
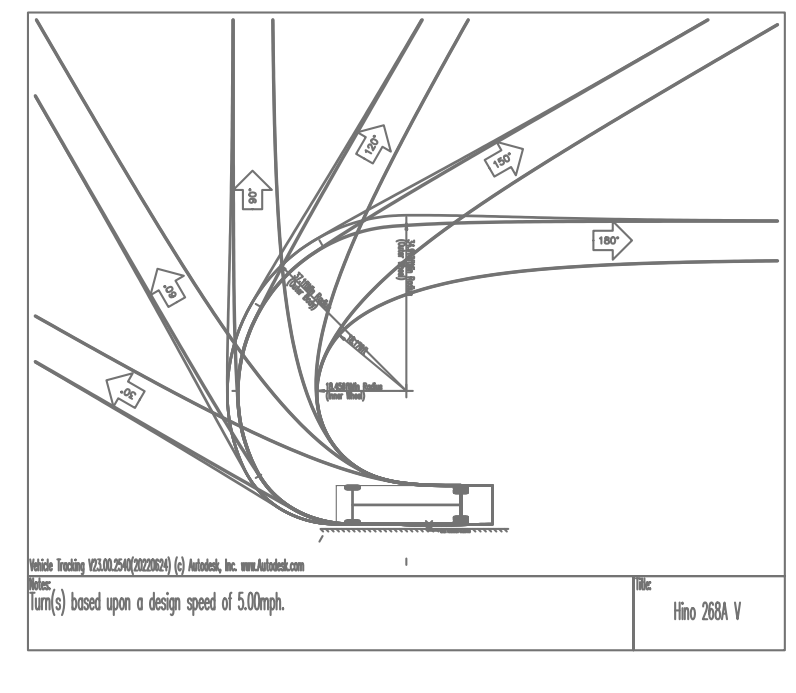
FIRE ENGINE VEHICLE MANEUVERING PLAN:

SCALE : 1" = 40'




LARGE BOX TRUCK VEHICLE MANEUVERING PLAN:

SCALE : 1" = 40'



1	1-30-24	REVISED FOR PLANNING BOARD SUBMISSION	JUS
NO.	DATE	REVISION	BY



ENGINEERING, SURVEYING & LANDSCAPE ARCHITECTURE, P.C.

PROJECT: **PAWLING COMMONS ALTERNATE SITE PLAN EXPANSION**


63-71 EAST MAIN STREET, VILLAGE OF PAWLING, DUTCHESS CO., NY

DRAWING: **VEHICLE MANEUVERING PLAN**

PROJECT NUMBER	18135.100	PROJECT MANAGER	J.M.W.
DATE	12-29-23	DRAWN BY	K.J.K.
SCALE	1" = 40'	CHECKED BY	E.J.P.

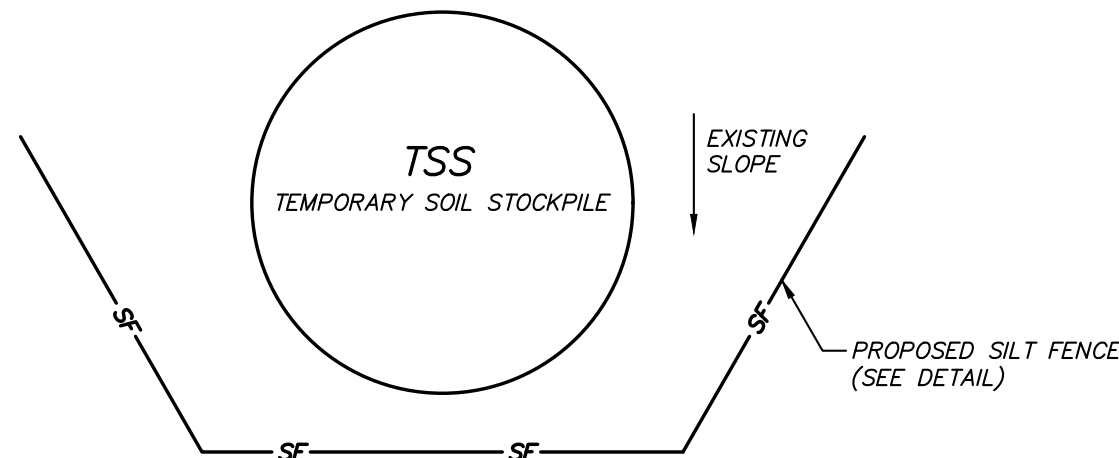
DRAWING NO. **VM-1**

SHEET **4** of **9**



REQUIRED SWPPP CONTENTS PER GP-0-20-001:

1. Pursuant to the NYSDC "SPDES General Permit for Stormwater Discharges from Construction Activity" (GP-0-20-001), all Stormwater Pollution Prevention Plan's (SWPPP) shall include erosion and sediment control practices designed in conformance with the most current version of the technical standard, "New York Standards and Specifications for Erosion and Sediment Control." Where erosion and sediment control practices are not designed in conformance with this technical standard, the owner or operator must demonstrate equivalence to the technical standard. The following list of required SWPPP components is provided in accordance with Part III.B.1a-1 of General Permit GP-0-20-001:
- a. Background Information: The subject project consists of the expansion of an existing parking lot, a new multi-family building, and the redevelopment of an existing building.
- b. Site map / construction drawing: These plans serve to satisfy this SWPPP requirement.
- c. Description of the soils present at the site: Onsite soils located within the proposed limits of disturbance consist of Galway-Farmington Urban land complex, undulating, rocky (GIB), as identified on the Soil Conservation Service Web Soil Survey. These soil types belong to the Hydrologic Soil Group "C."
- d. Construction phasing plan / sequence of operations: The Construction Sequence and phasing found on these plans provide the required phasing. A Construction Sequence and Erosion and Sediment Control Maintenance Schedule has been provided. The Erosion and Sediment Control Notes contained hereon outline a general sequence of operations for the proposed project. In general all erosion and sediment control measures shall be installed prior to commencement with land disturbing activities, and areas of disturbance shall be limited to the shortest period of time as practicable.
- e. Description of erosion and sediment control practices: This plan, and details / notes shown hereon serve to satisfy this SWPPP requirement.
- f. Temporary and permanent soil stabilization plan: The Sedimentation and Erosion Control Notes and Details provided hereon identify temporary and permanent stabilization measures to be employed with respect to specific elements of the project, and at the various stages of development.
- g. Site map / construction drawing: This plan serves to satisfy this SWPPP requirement.
- h. The dimensions, material specifications, installation details, and operation and maintenance requirements for all erosion and sediment control practices: The details, Erosion and Sediment Control Notes, and Erosion and Sediment Control Maintenance Schedule serve to satisfy this SWPPP requirement.
- i. An inspection schedule: Inspections are to be performed twice weekly and by a qualified professional as required by the General Permit GP-0-20-001. In addition the NYSDC Trained Contractor shall perform additional inspections as cited in the Sedimentation and Erosion Control Notes.
- j. A description of pollution prevention measures that will be used to control litter, construction chemicals and construction debris: In general, all construction litter / debris shall be collected and removed from the site. The general contractor shall supply either waste barrels or dumpster for proper waste disposal. Any construction chemicals utilized during construction shall either be removed from site daily by the contractor or stored in a structurally sound and weatherproof building. No hazardous waste shall be disposed of onsite, and shall ultimately be disposed of in accordance with all federal, state and local regulations. Material Safety Data Sheets (MSDS), material inventory, and emergency contact numbers shall be maintained by the general contractor for all construction chemicals utilized onsite. Finally, temporary sanitary facilities (portable toilets) shall be provided onsite during the entire length of construction, and inspected weekly for evidence of leaking holding tanks.
- k. A description and location of any stormwater discharges associated with industrial activity other than construction at the site: There are no known industrial stormwater discharges present or proposed at the site.
- l. Identification of any elements of the design that are not in conformance with the technical standard, "New York Standards and Specifications for Erosion and Sediment Control." All proposed elements of this SWPPP have been designed in accordance with the "New York Standards and Specifications for Erosion and Sediment Control."
2. Pursuant to the NYSDC "SPDES General Permit for Stormwater Discharges from Construction Activity" (GP-0-20-001), all construction projects needing post-construction stormwater management practices shall prepare a SWPPP that also includes practices designed in conformance with the most current version of the technical standard, New York State Stormwater Management Design Manual ("Design Manual"). Where post-construction stormwater management practices are not designed in conformance with this technical standard, the owner or operator must demonstrate equivalence to the technical standard. The following list of SWPPP components is provided in accordance with Part III.B.2a-f and III.B.3.
- a. Identification of all post-construction stormwater management practices to be constructed as part of the project: This plan, and details/notes shown hereon serve to satisfy this SWPPP requirement.
- b. A site map/construction drawing(s) showing the specific location and size of each post-construction stormwater management practice: This plan, and details/notes shown hereon serve to satisfy this SWPPP requirement.
- c. A Stormwater Modeling and Analysis Report including pre-development conditions, post-development conditions, the results of the stormwater modeling, a summary table demonstrating that each practice has been designed in conformance with the sizing criteria, identification of and justification for any deviations from the Design Manual, and identification of any design criteria that are not required. The required analysis is provided in the report titled Stormwater Pollution Prevention Plan for Pawling Commons.
- d. Soil testing results and locations: This SWPPP requirement is provided in the report titled Stormwater Pollution Prevention Plan for Pawling Commons.
- e. Infiltration testing results: This SWPPP requirement is provided in the report titled Stormwater Pollution Prevention Plan for Pawling Commons.
- f. An operations and maintenance plan that includes inspection and maintenance schedules and actions to ensure continuous and effective operation of each post-construction stormwater management practice. The plan shall identify the entity that will be responsible for the long term operation and maintenance of each practice. The Permanent Stormwater Facilities Maintenance Schedule provided on these plans serves to satisfy this requirement.
3. Enhanced Phosphorus Removal Standards - Beginning on September 30, 2008, all construction projects identified in Table 2 of Appendix B that are located in the watersheds identified in Appendix C shall prepare a SWPPP that includes post-construction stormwater management practices designed in conformance with the Enhanced Phosphorus Removal Standards included in the most current version of the technical standard, New York Stormwater Management Design Manual. At a minimum, the post-construction stormwater management practice component of the SWPPP shall include items 2.a - 2.f above. The permanent stormwater practices for this project have been sized according to chapter 10 of the Design Manual Enhanced Phosphorus Removal Standards. Please see 2.a - 2.f above.



NOTES:

1. AREA CHOSEN FOR STOCKPILE LOCATION SHALL BE DRY AND STABLE.
2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 2:1.
3. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE IMMEDIATELY SEEDED WITH K31 PERENNIAL TALL FESCUE.
4. ALL STOCKPILES SHALL BE PROTECTED WITH SILT FENCING INSTALLED ON THE DOWNGRADIENT SIDE.

TEMPORARY SOIL STOCKPILE DETAIL
(N.T.S.)

ALTERATION OF THIS DOCUMENT, UNLESS UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, IS A VIOLATION OF SECTION 7209 OF ARTICLE 145 OF THE EDUCATION LAW.

SOIL RESTORATION REQUIREMENTS

The contractor shall be required to perform the following soil restoration techniques prior to installing topsoil, seed and mulch. Items stricken in the following table do not need to be performed.

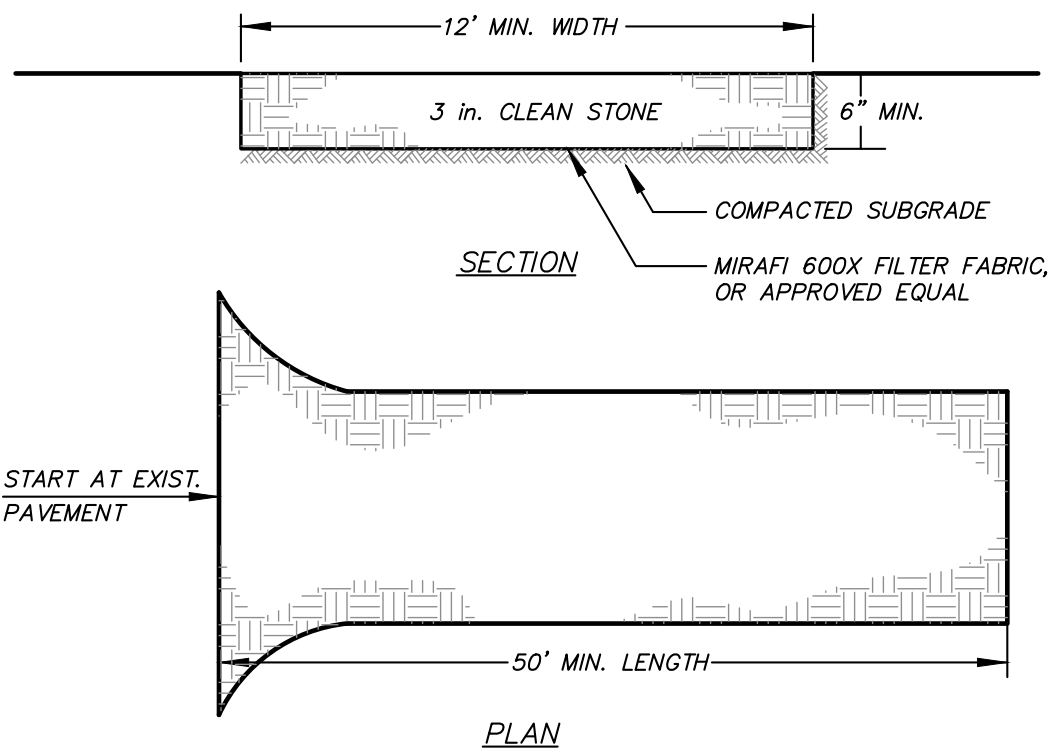
Type of Soil Disturbance	Soil Restoration Requirement		Comments/Examples
No soil disturbance	Restoration not permitted		Preservation of Natural Features
Minimal soil disturbance	Restoration not required		Clearing and grubbing
Areas where topsoil is stripped only – no change in grade	HSG A&B	HSG C&D	Protect area from any ongoing construction activities.
	Apply 6 inches of topsoil	Aerate* and apply 6 inches of topsoil	
Areas of cut or fill	HSG A&B	HSG C&D	
	Aerate* and apply 6 inches of topsoil	Apply full Soil Restoration**	
Heavy traffic areas on site (especially in a zone 5-25 feet around buildings but not within a 5 foot perimeter around foundation walls)	Apply full Soil Restoration (decompaction and compost enhancement)		
Areas where Runoff Reduction and/or Infiltration practices are applied	Restoration not required, but may be applied to enhance the reduction specified for appropriate practices.		Keep construction equipment from crossing these areas. To protect newly installed practice from any ongoing construction activities construct a single phase operation fence area
Redevelopment projects	Soil Restoration is required on redevelopment projects in areas where existing impervious area will be converted to pervious area.		

* Aeration includes the use of machines such as tractor-drawn implements with coulters making a narrow slit in the soil, a roller with many spikes making indentations in the soil, or prongs which function like a mini-subsoiler.
** Per "Deep Ripping and De-compaction, DEC 2008"

EROSION AND SEDIMENT CONTROL MAINTENANCE SCHEDULE

MONITORING REQUIREMENTS				MAINTENANCE REQUIREMENTS	
PRACTICE	DAILY	WEEKLY	AFTER RAINFALL	DURING CONSTRUCTION	AFTER CONSTRUCTION
SILT FENCE BARRIER	-	Inspect	Inspect	Clean/Replace	Remove
STABILIZED CONSTRUCTION ENTRANCE	Inspect	-	Inspect	Clean/Replace Stone and Fabric	Remove
INLET PROTECTION	-	Inspect	Inspect	Clean/Repair/Replace	Remove
DUST CONTROL	Inspect	-	Inspect	Mulching/ Spraying Water	N/A
*VEGETATIVE ESTABLISHMENT	-	Inspect	Inspect	Water/Reseed/ Remulch	Reseed to 80% Coverage
SOIL STOCKPILES	-	Inspect	Inspect	Mulching/ Silt Fence Repair	Remove
CONCRETE DRAINAGE STRUCTURES	-	Inspect	Inspect	Clean Sumps/ Remove Debris/ Repair/Replace	See Permanent Stormwater Facilities Maintenance Schedule on Drawing D-10
DRAINAGE PIPES	-	Inspect	Inspect	Clean/Repair	
ACCESS ROAD / PAVEMENT	-	Inspect	Inspect	Clean	Clean

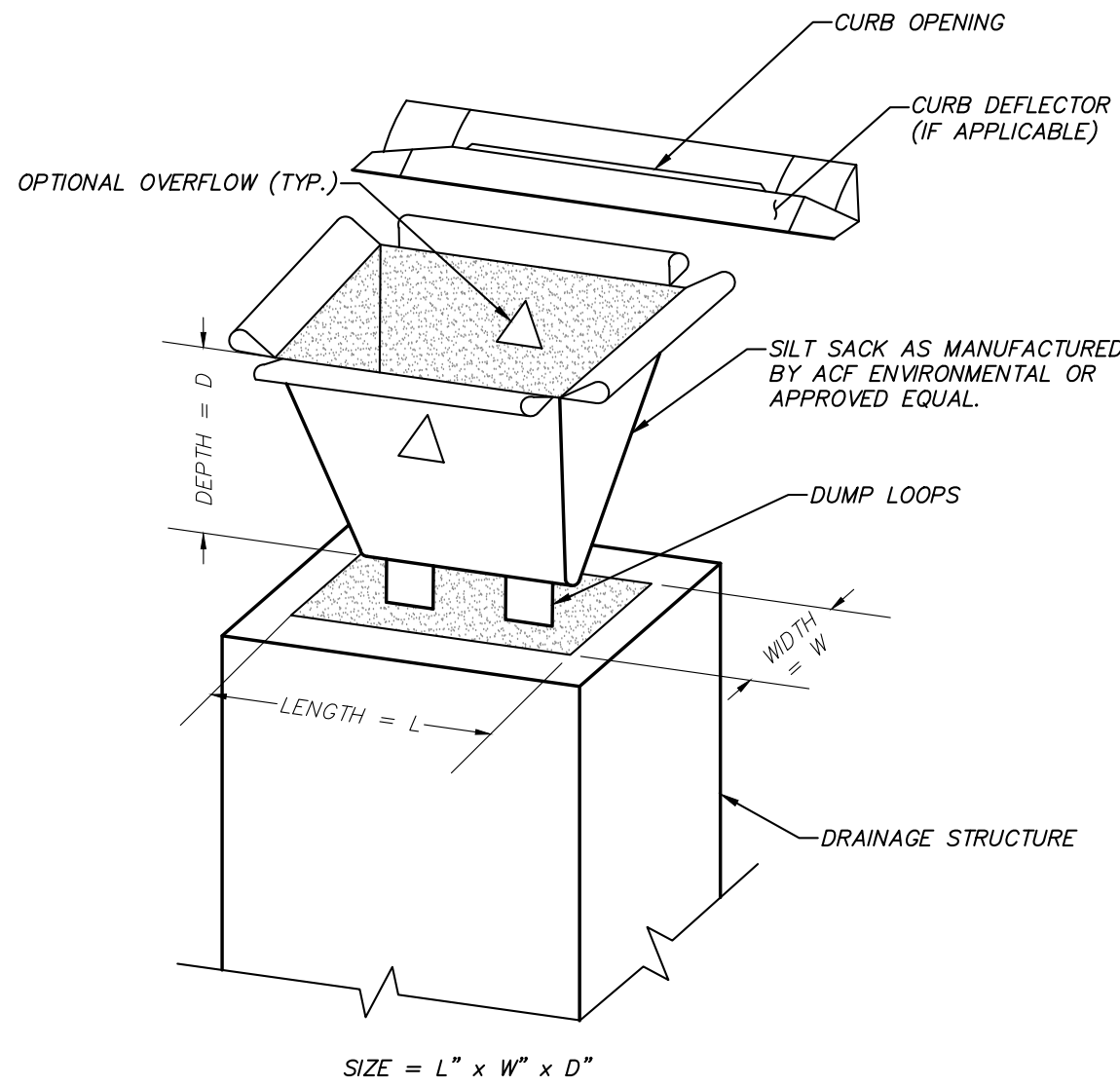
* Permanent vegetation is considered stabilized when 80% of the plant density is established. Erosion control measures shall remain in place until all disturbed areas are permanently stabilized.



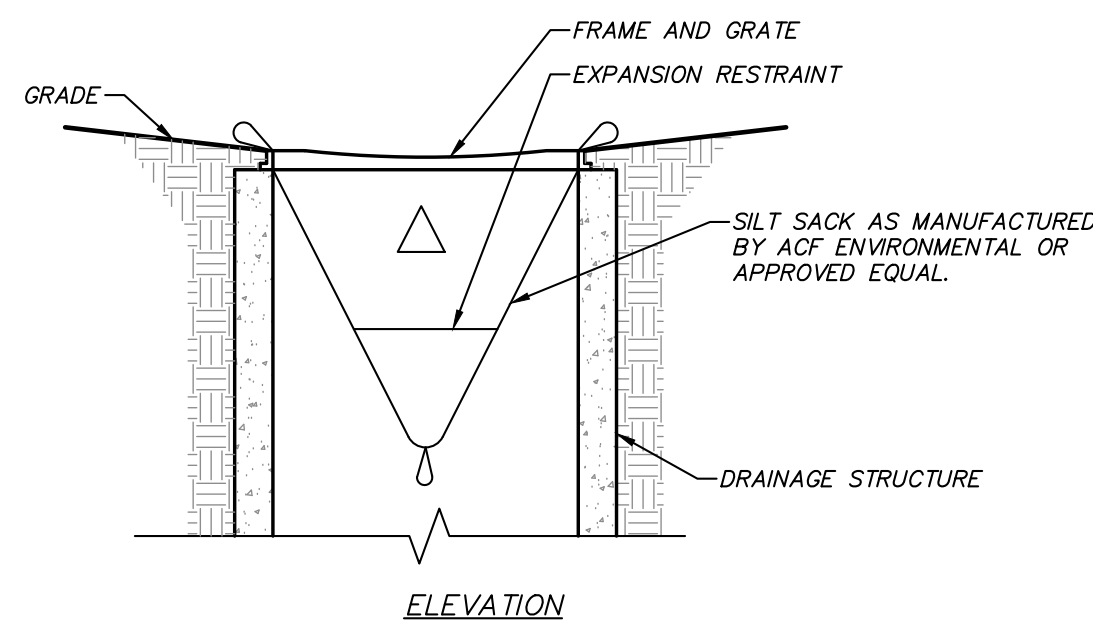
INSTALLATION NOTES

1. STONE SIZE - USE 3" STONE
2. LENGTH - AS REQUIRED, BUT NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY)
3. THICKNESS - NOT LESS THAN SIX (6) INCHES.
4. WIDTH - 12 FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCUR. TWENTY FOUR (24) FOOT IF SINGLE ACCESS TO SITE.
5. FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE. FILTER CLOTH WILL NOT BE REQUIRED ON A SINGLE FAMILY RESIDENCE LOT.
6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT OF WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT OF WAY MUST BE REMOVED IMMEDIATELY.
8. WASHING - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT OF WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

STABILIZED CONSTRUCTION ACCESS DETAIL
(N.T.S.)



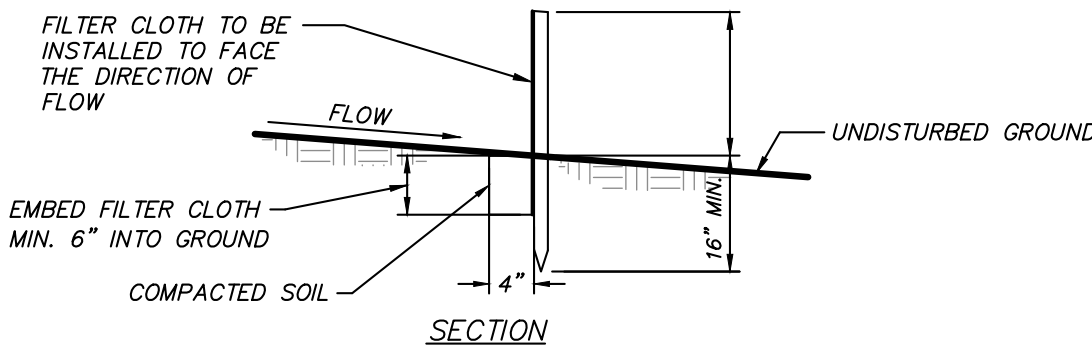
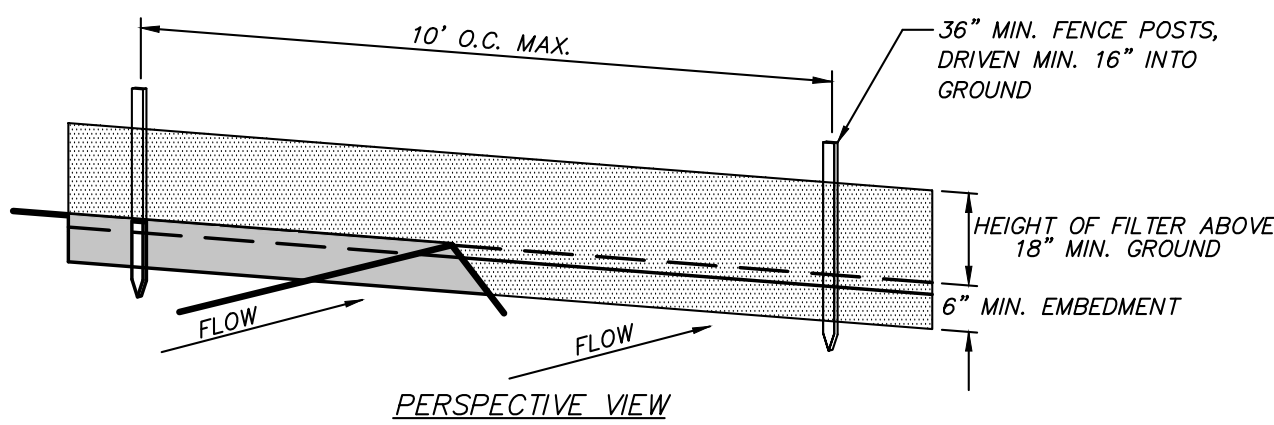
EXPLODED ISOMETRIC



NOTE:
FABRIC FOR INSERT SHALL MEET THE FOLLOWING:

FABRIC PROPERTIES	MINIMUM ACCEPTABLE VALUE	TEST METHOD
Grab Tensile Strength (lbs)	110	ASTM D 4632
Mullen Burst Strength (PSI)	300	ASTM D 3786
Puncture Strength (lbs)	60	ASTM D 4833
Minimum Trapezoidal Tear Strength (lbs)	50	ASTM D 4533
Flow Through Rate (gal/min/sf)	25	ASTM D 4491
Equivalent Opening Size	40-80	US Std Sieve ASTM D 4751

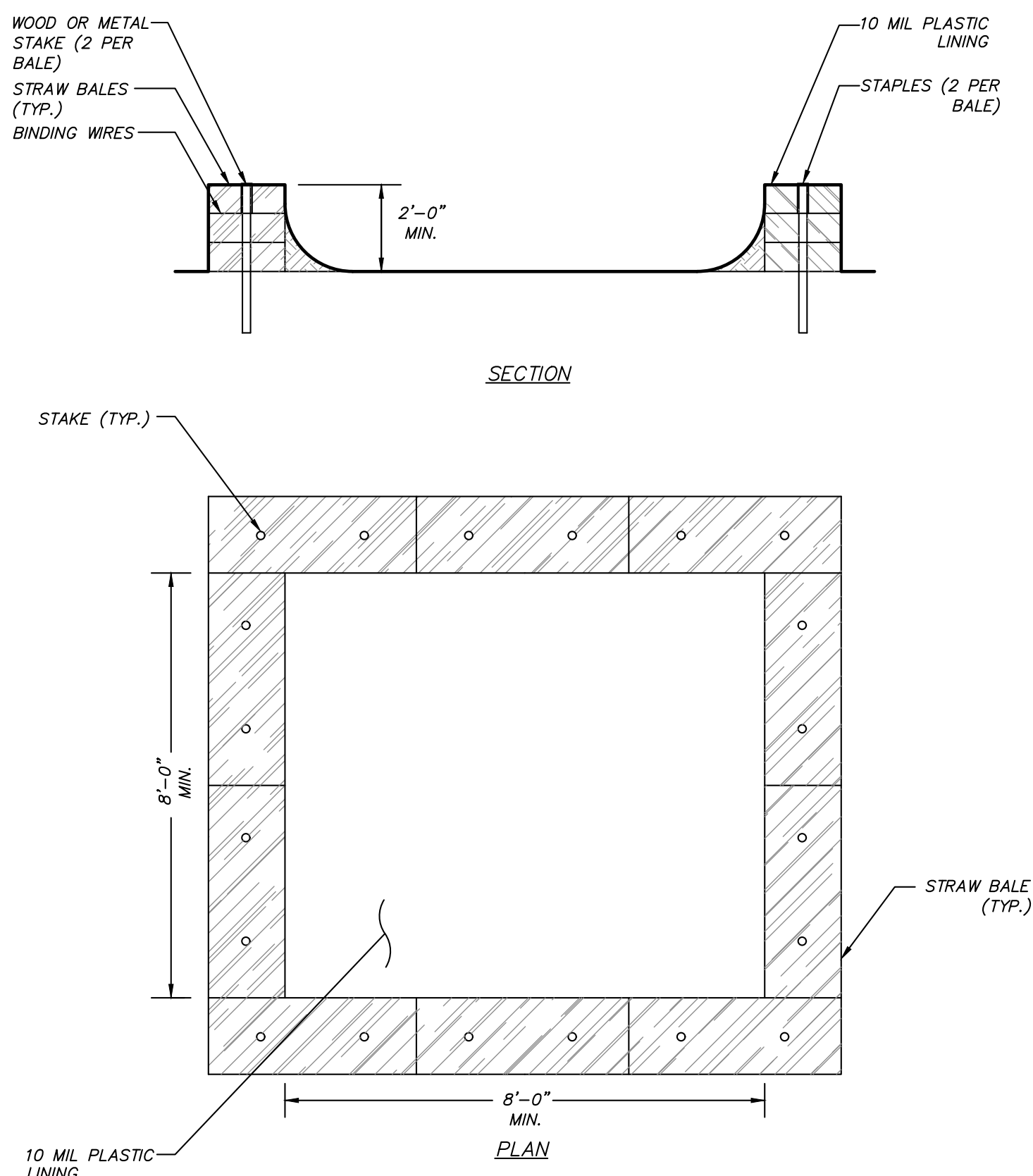
MANUFACTURED INSERT INLET PROTECTION DETAIL
(N.T.S.)



CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER "I" OR "U" TYPE OR HARDWOOD.
2. FILTER CLOTH TO BE TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 6" MAXIMUM MESH OPENING.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA 1140N, OR APPROVED EQUIVALENT.
4. PREFABRICATED UNITS SHALL BE GEOTAF, ENVROFENCE, OR APPROVED EQUIVALENT.
5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

STANDARD SILT FENCE DETAIL
(N.T.S.)



CONCRETE TRUCK WASHOUT DETAIL
(N.T.S.)

NOTES

1. TEMPORARY CONCRETE WASHOUT TYPE ABOVE GRADE WILL BE CONSTRUCTED AS SHOWN ABOVE, WITH RECOMMENDED MINIMUM LENGTH AND MINIMUM WIDTH OF 8 FT.
2. THE WASHOUT WILL BE MINIMUM OF 100 FT FROM DRAINAGE SWALES, STORM DRAIN INLETS, WETLANDS, STREAMS AND OTHER SURFACE WATERS.
3. PLASTIC LINING WILL BE FREE OF HOLES, TEARS, OR OTHER DEFECTS THAT COMPROMISE THE IMPERMEABILITY OF THE MATERIAL.

2	1-30-24	REVISED FOR PLANNING BOARD SUBMISSION	JUS
1	12-29-23	REVISED FOR PLANNING BOARD SUBMISSION	EUP
NO.	DATE	REVISION	BY

INSITE
ENGINEERING, SURVEYING &
LANDSCAPE ARCHITECTURE, P.C.

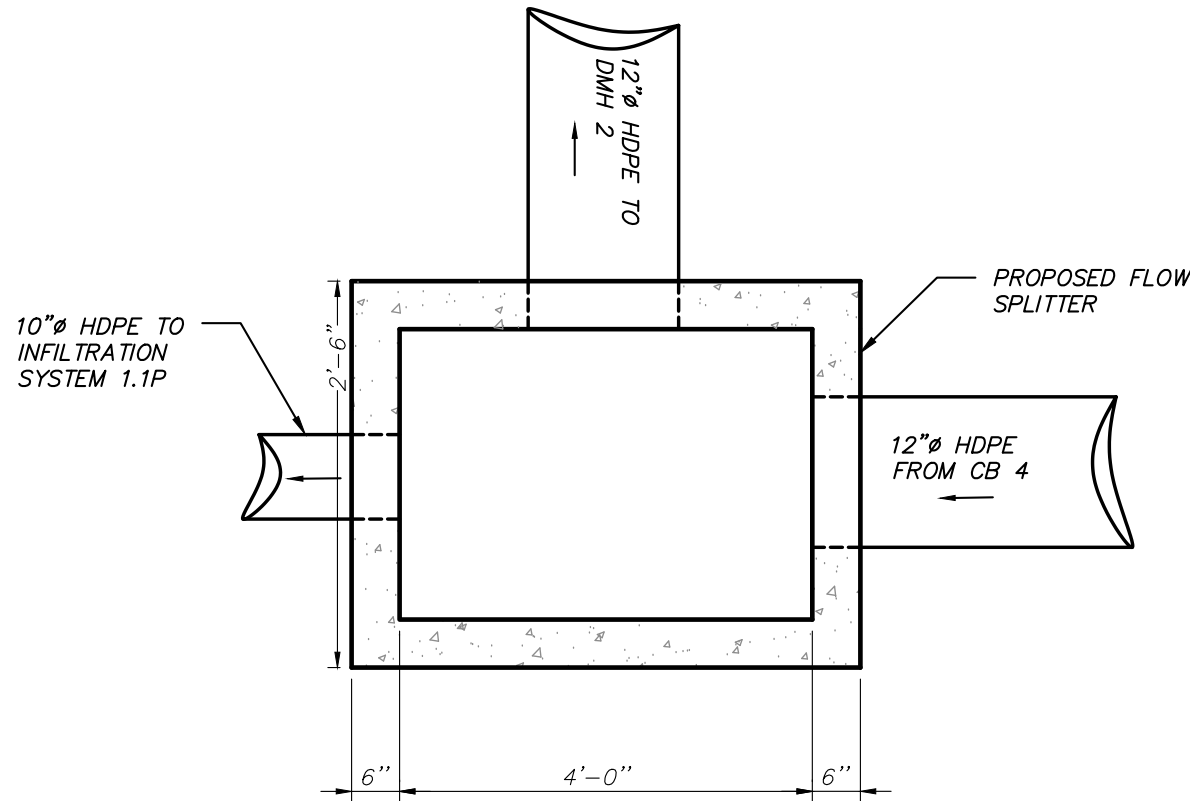
3 Garrett Place
Carmel, NY 10512
(845) 225-9690
(845) 225-9717 fax
www.insite-eng.com

PROJECT: PAWLING COMMONS ALTERNATE SITE PLAN EXPANSION		63-71 EAST MAIN STREET, VILLAGE OF PAWLING, DUTCHESS CO., NY	
DRAWING: EROSION & SEDIMENT CONTROL DETAILS		DRAWING NO. 6	
PROJECT NUMBER 18135.100	PROJECT MANAGER J.M.W.	DRAWING NO. 6	SHEET 9
DATE 10-31-23	DRAWN BY I.B.	DRAWING NO. 6	SHEET 9
SCALE AS NOTED	CHECKED BY E.J.P.	DRAWING NO. 6	SHEET 9

PERMANENT STORMWATER FACILITIES MAINTENANCE SCHEDULE					
PRACTICE/FACILITY	MONTHLY	AFTER MAJOR STORM EVENTS	BI-ANNUALLY	YEARLY	EVERY 5 to 10 YEARS
INFILTRATION UNITS	-	Confirm infiltrators dewater within 40 hours	Inspect & clean	Inspect outlet structures & remove accumulated sediment.	Clean isolator row per manufactures recommendations
SUBSURFACE STORMWATER COLLECTION SYSTEMS	-	-	Inspect & clean	Inspect, clean, repair and/or replace structures. Remove debris.	-
HYDRODYNAMIC SEPARATOR	Refer to manufacturer's Operation and Maintenance Manual contained in the project SWPPP.				

Note: The party responsible for implementation of the maintenance schedule during and after construction is:

KJ-Rant Realty LLC
100 Business Park Drive
Armonk, NY 10504



PLAN

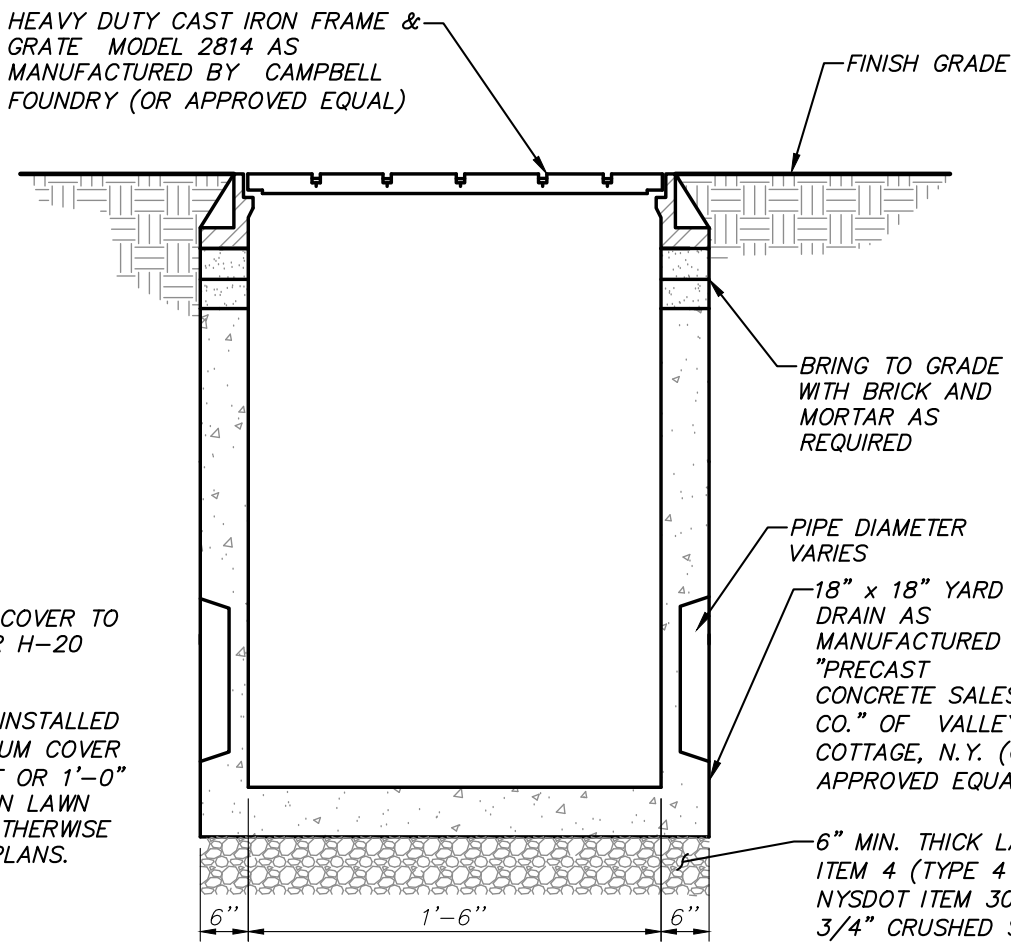
CAST IRON FRAME AND GRATE MODEL #2617 AS MANUFACTURED BY "CAMPBELL FOUNDRY", OR APPROVED EQUAL

30" X 48" FLOW SPLITTER AS MANUFACTURED BY "PRECAST CONCRETE SALES CO." OF VALLEY COTTAGE, N.Y. (OR APPROVED EQUAL)

NOTE: PIPES SHALL HAVE 2' MINIMUM COVER UNDER PAVEMENT OR 1'-0" MINIMUM COVER IN LAWN AREAS UNLESS OTHERWISE SHOWN ON THE PLANS.

SECTION

FLOW SPLITTER DETAIL
(N.T.S.)

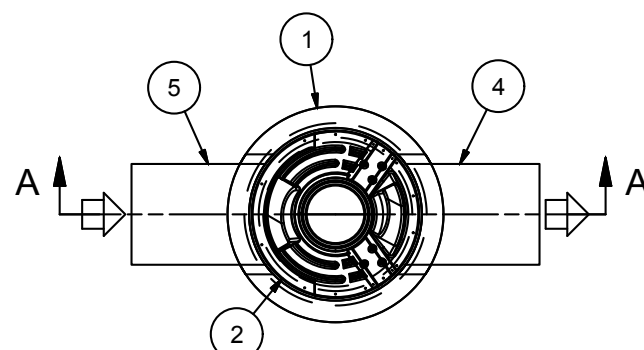


18" X 18" YARD DRAIN DETAIL
(N.T.S.)

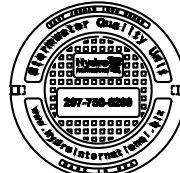
NOTE:

- STRUCTURE AND COVER TO BE DESIGNED FOR H-20 LOADING.
- PIPES SHALL BE INSTALLED WITH 2'-0" MINIMUM COVER UNDER PAVEMENT OR 1'-0" MINIMUM COVER IN LAWN AREAS UNLESS OTHERWISE SHOWN ON THE PLANS.

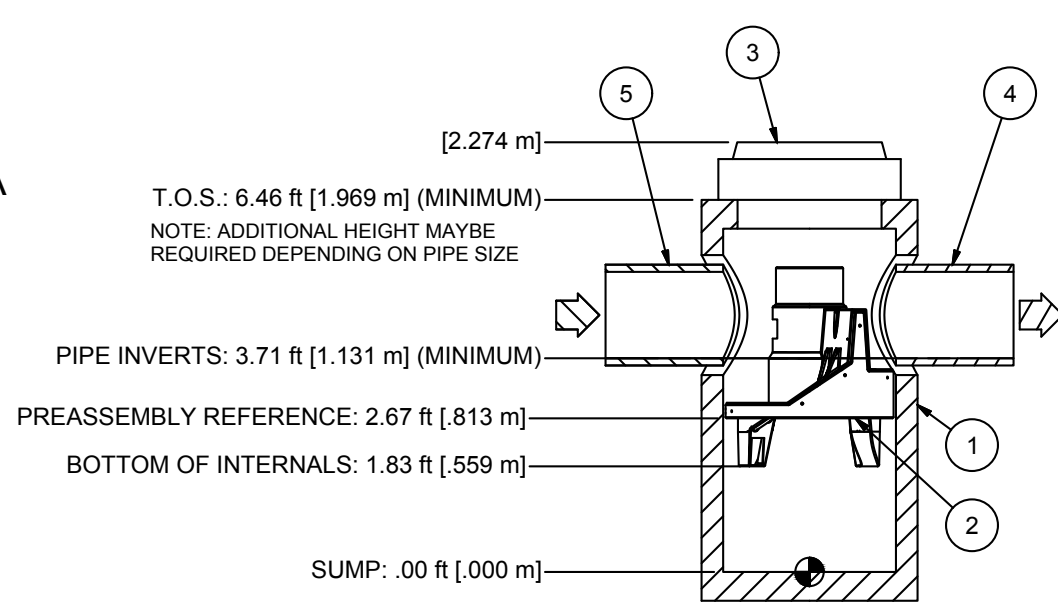
ALTERATION OF THIS DOCUMENT, UNLESS UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, IS A VIOLATION OF SECTION 7209 OF ARTICLE 145 OF THE EDUCATION LAW.



PLAN VIEW



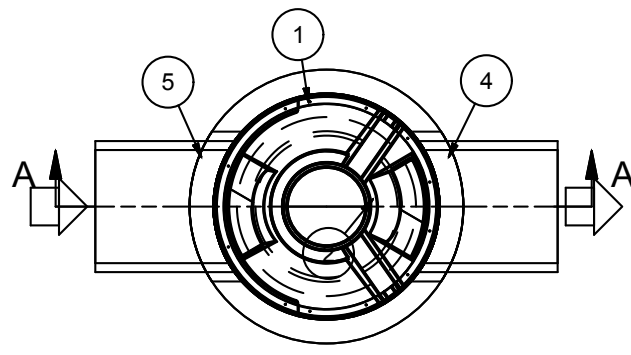
HYDRO FRAME AND COVER (INCLUDED)
GRADE RINGS BY OTHERS AS REQUIRED



SECTION A-A

- MANHOLE WALL AND SLAB THICKNESSES ARE NOT TO SCALE.
- CONTACT HYDRO INTERNATIONAL FOR A BOTTOM OF STRUCTURE ELEVATION PRIOR TO SETTING FIRST DEFENSE MANHOLE.
- CONTRACTOR TO CONFIRM RIM, PIPE INVERTS, PIPE DIA. AND PIPE ORIENTATION PRIOR TO RELEASE OF UNIT TO FABRICATION.

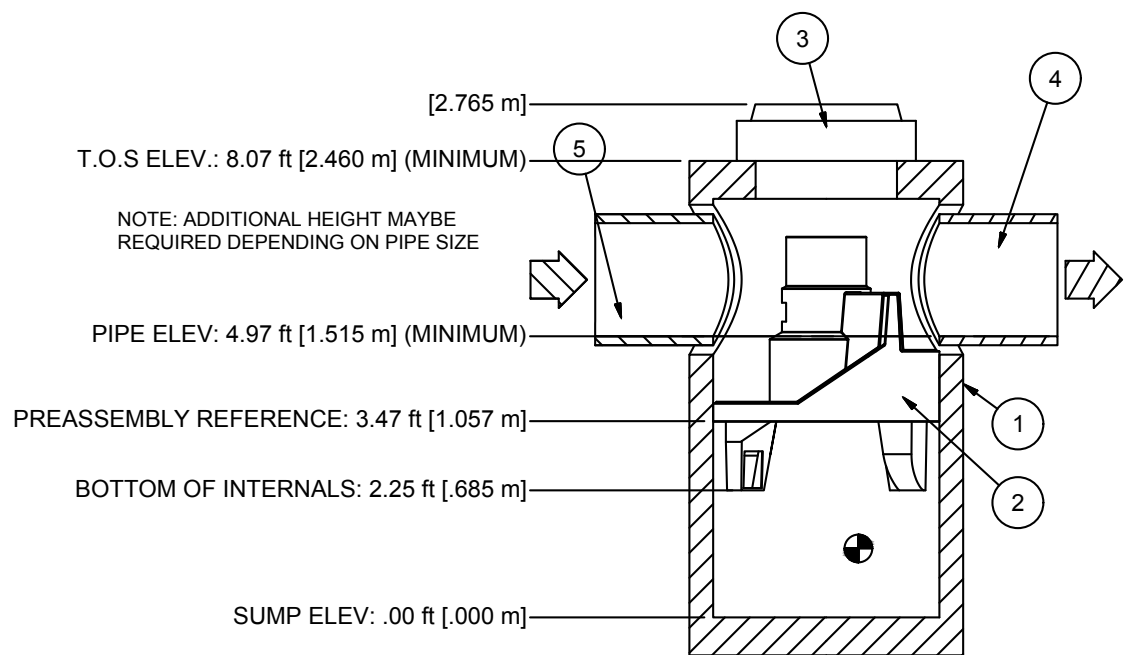
FIRST DEFENSE OPTIMUM HYDRODYNAMIC SEPARATOR FDO-3
(HDS 7, HDS 8, & HDS 13)
(N.T.S.)



PLAN VIEW



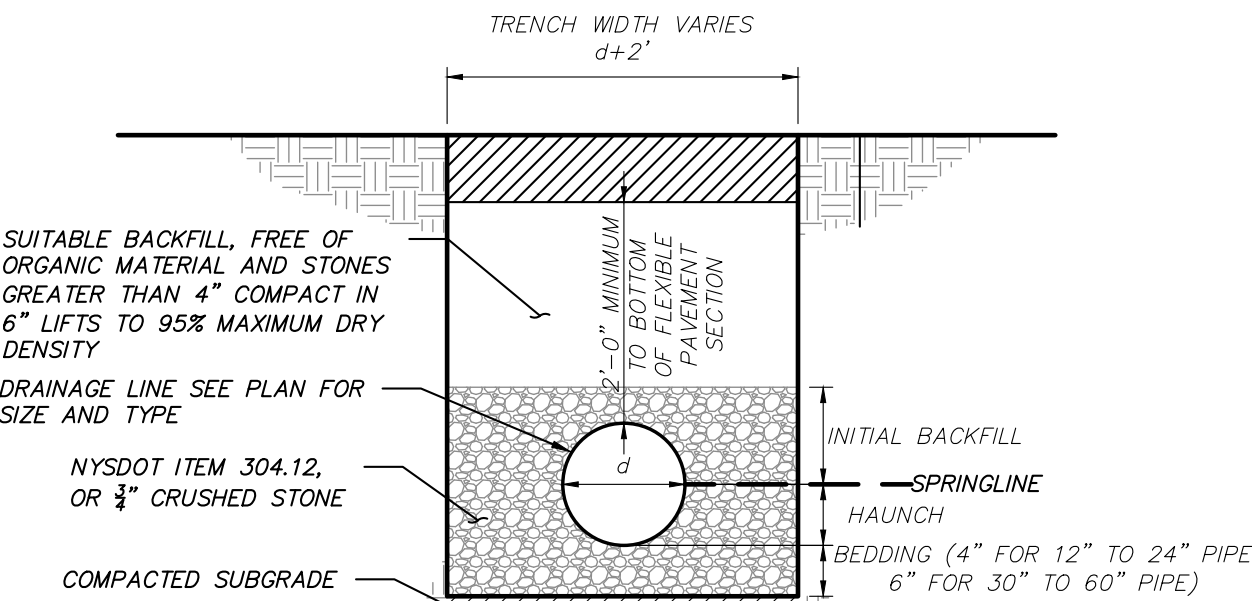
HYDRO FRAME AND COVER (INCLUDED)
GRADE RINGS BY OTHERS AS REQUIRED



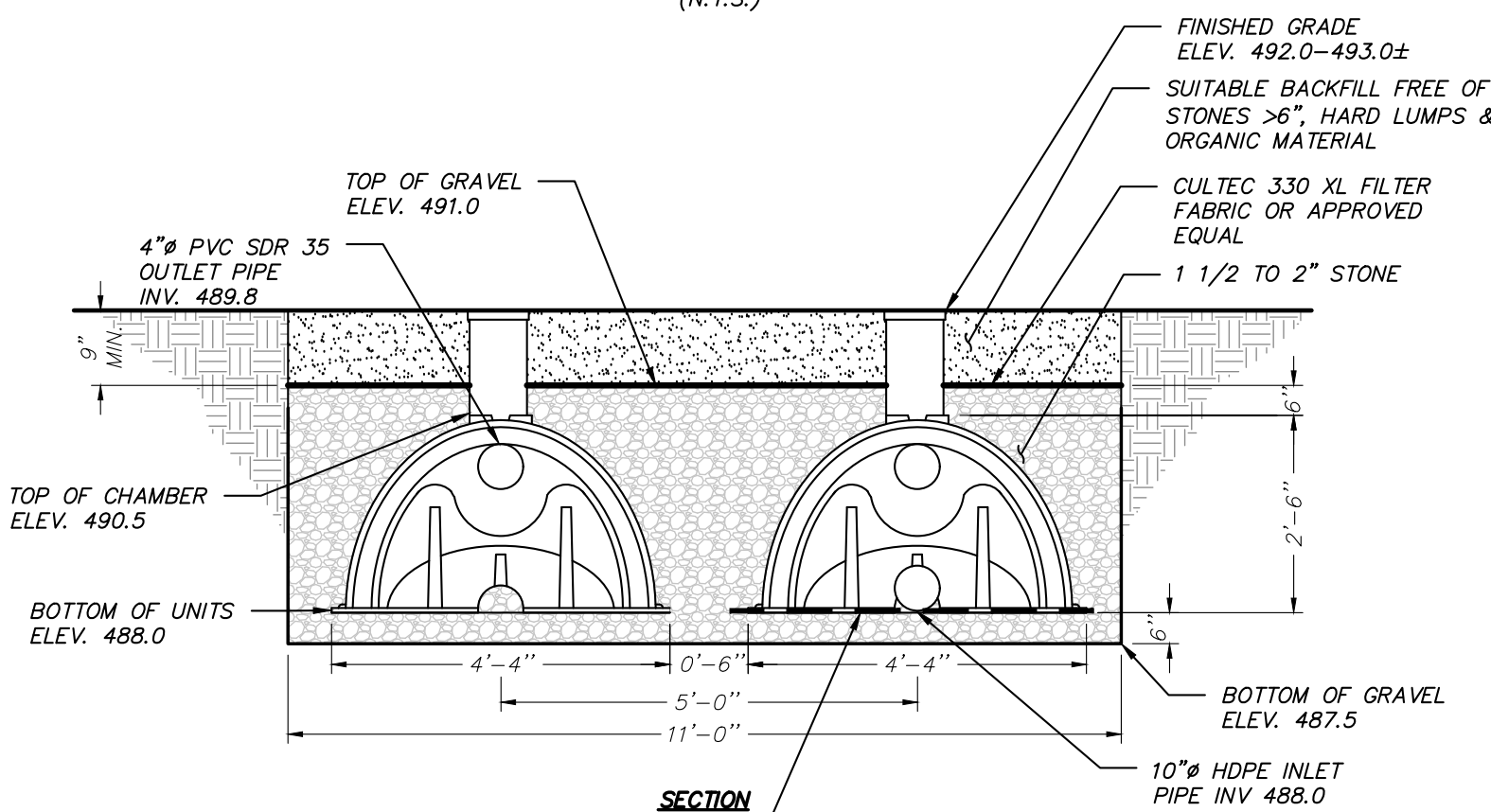
SECTION A-A

- MANHOLE WALL AND SLAB THICKNESSES ARE NOT TO SCALE.
- CONTACT HYDRO INTERNATIONAL FOR A BOTTOM OF STRUCTURE ELEVATION PRIOR TO SETTING FIRST DEFENSE MANHOLE.
- CONTRACTOR TO CONFIRM RIM, PIPE INVERTS, PIPE DIA. AND PIPE ORIENTATION PRIOR TO RELEASE OF UNIT TO FABRICATION.

FIRST DEFENSE OPTIMUM HYDRODYNAMIC SEPARATOR FDO-4 (HDS 11)
(N.T.S.)



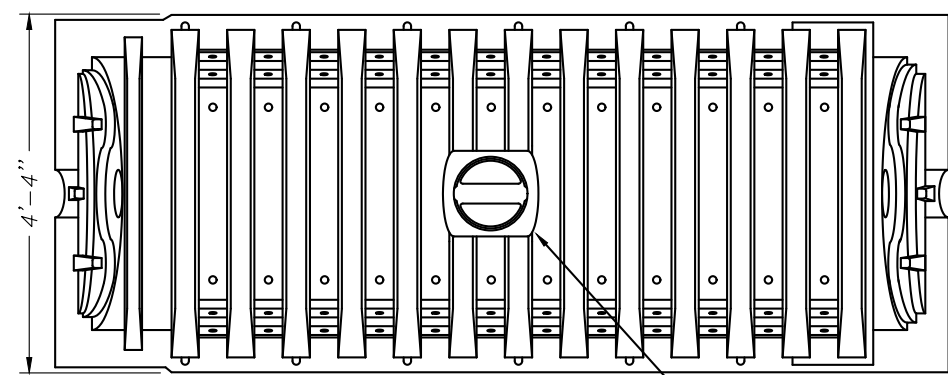
DRAINAGE LINE TRENCH DETAIL
(N.T.S.)



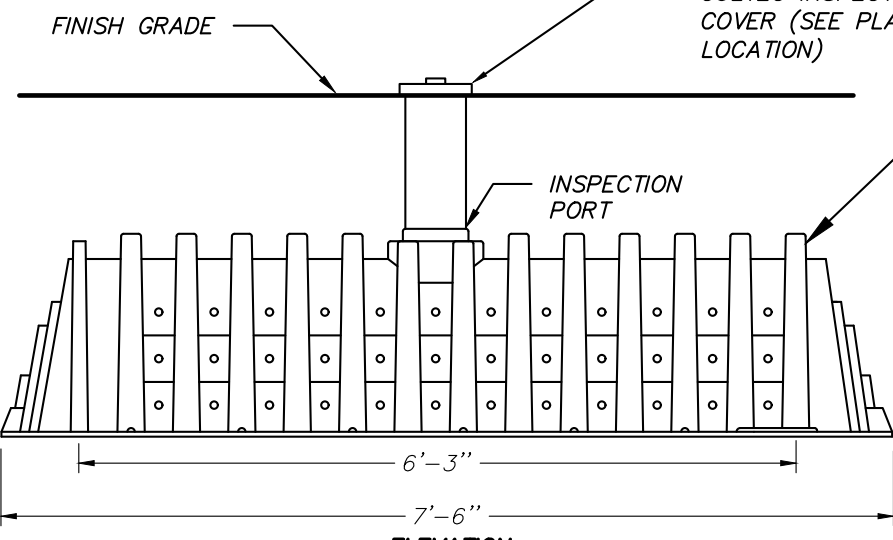
SECTION

GEOTEXTILE TO BE INSTALLED BETWEEN CHAMBER AND STONE FOR ISOLATION ROWS PER MANUFACTURER'S SPECIFICATIONS

STORMWATER INFILTRATION SYSTEM DETAIL
(N.T.S.)

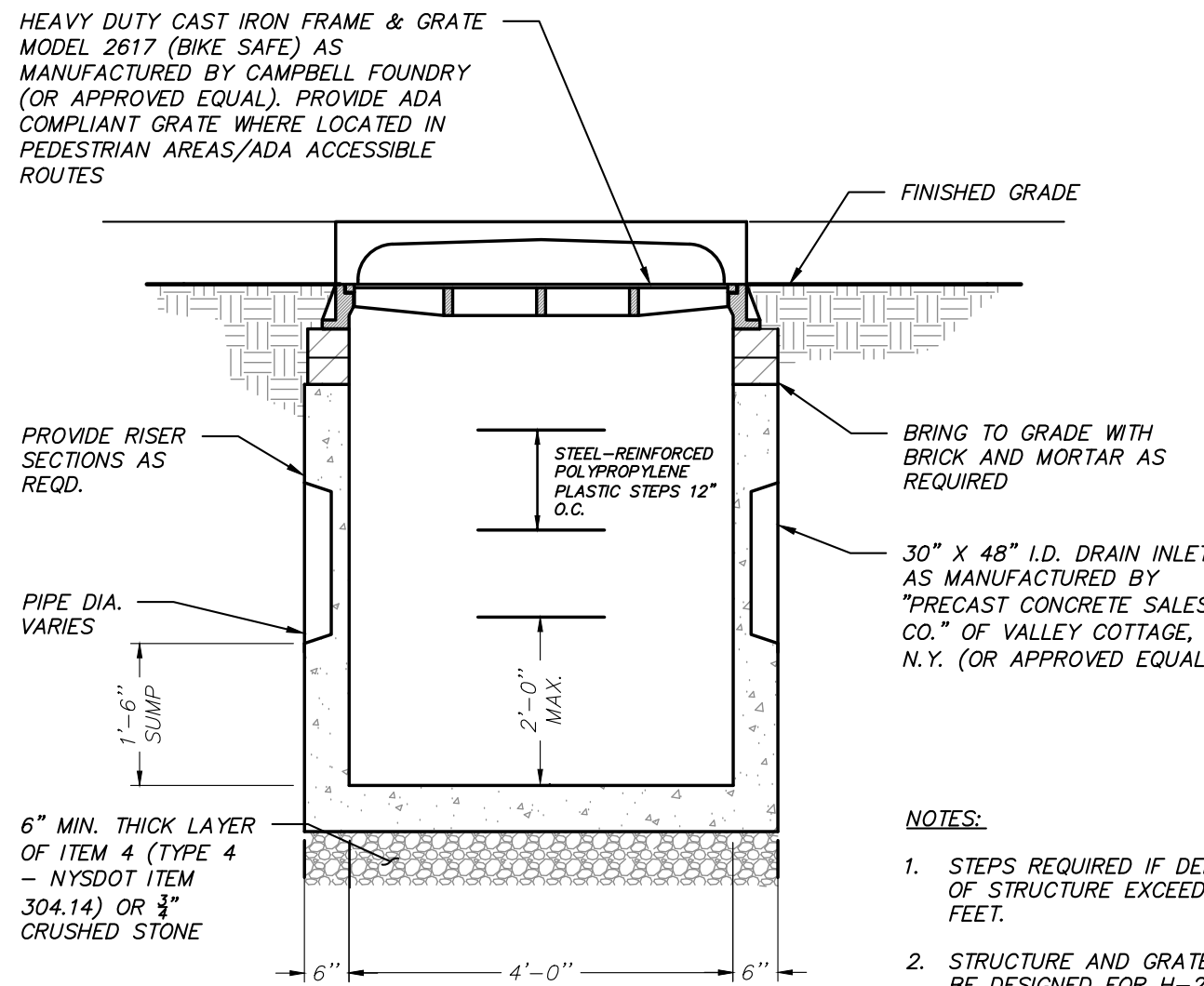


PLAN



ELEVATION

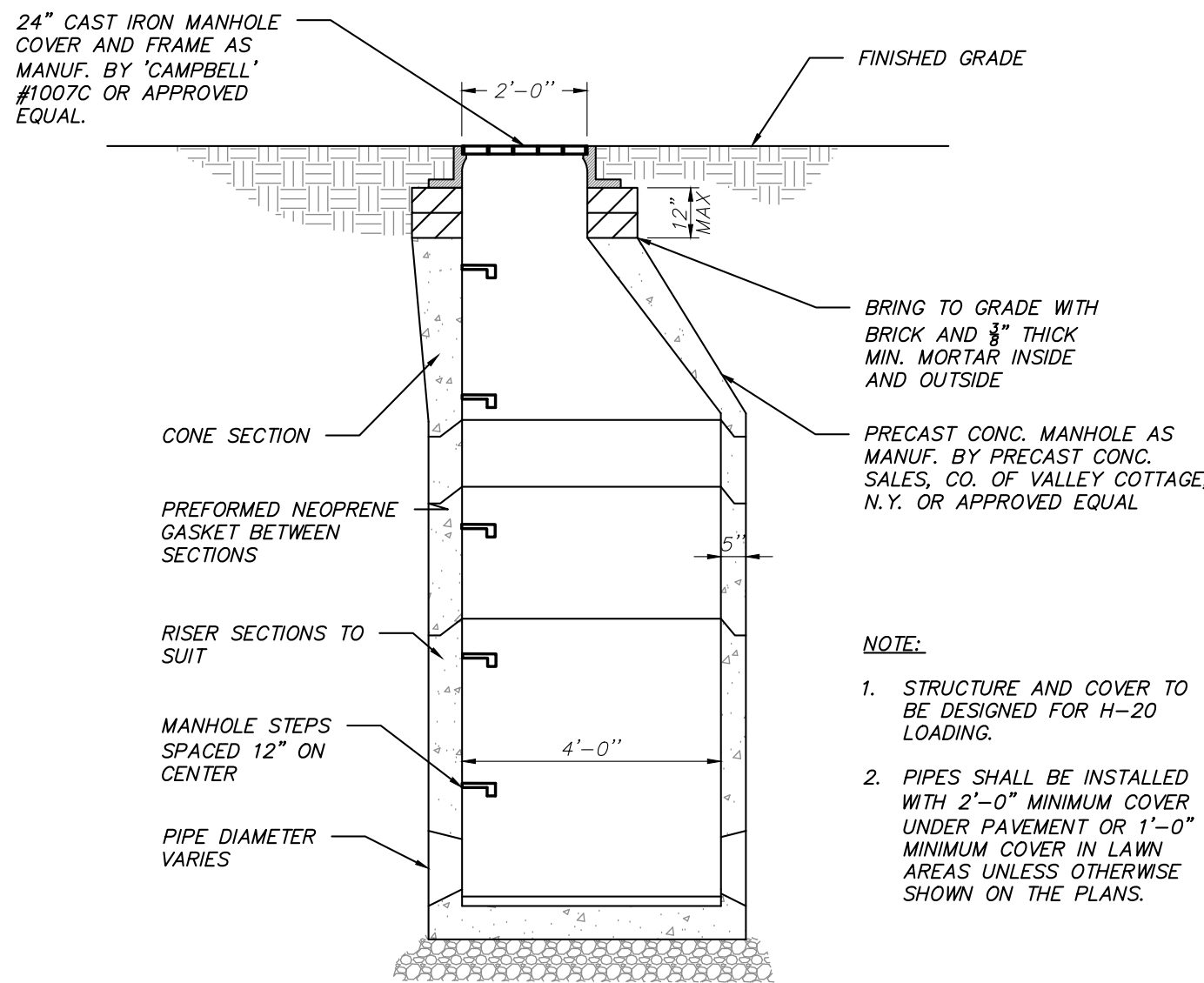
NOTE: THE DESIGN ENGINEER SHALL BE CONTACTED 48 HOURS PRIOR TO GRAVEL BACKFILL OF THE INFILTRATION SYSTEM. ALL SYSTEM COMPONENTS INCLUDING THE CONNECTOR PIPES MUST BE EXPOSED AND INSPECTED PRIOR TO BACKFILL.



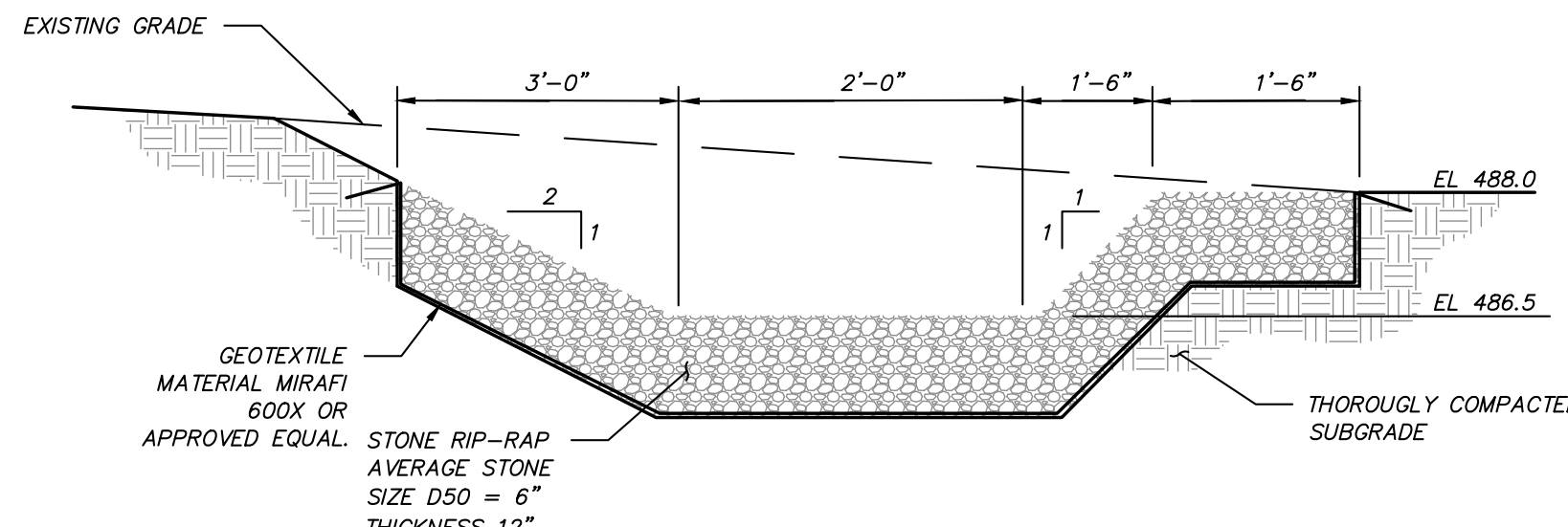
30" X 48" CATCH BASIN DETAIL
(N.T.S.)

NOTES:

- STEPS REQUIRED IF DEPTH OF STRUCTURE EXCEEDS 4 FEET.
- STRUCTURE AND GRATE TO BE DESIGNED FOR H-20 LOADING.
- PIPES SHALL BE INSTALLED WITH 2'-0" MINIMUM COVER UNDER PAVEMENT OR 1'-0" MINIMUM COVER IN LAWN AREAS UNLESS OTHERWISE SHOWN ON THE PLANS.



DRAINAGE MANHOLE DETAIL
(N.T.S.)



FLOW SPREADER DETAIL
(N.T.S.)

1	1-30-24	REVISED FOR PLANNING BOARD SUBMISSION	JUS
NO.	DATE	REVISION	BY
INSITE ENGINEERING, SURVEYING & LANDSCAPE ARCHITECTURE, P.C.			
PROJECT: PAWLING COMMONS ALTERNATE SITE PLAN EXPANSION			
63-71 EAST MAIN STREET, VILLAGE OF PAWLING, DUTCHESS CO., NY			
DRAWING: STORMWATER DETAILS			
PROJECT NUMBER	18135.100	PROJECT MANAGER	J.M.W.
DATE	12-29-23	DRAWN BY	I.B.
SCALE	AS NOTED	CHECKED BY	E.J.P.
DRAWING NO.		SHEET	
D-3		7/9	

1. All water mains shall be class 52 cement lined tyton joint ductile iron pipe, push on (rubber gasket) type and installed with 2 bronze wedges for continuous electrical contact per part. All pipe and appurtenances shall be in accordance with the latest edition of AWWA/ANSI standard C600, C150/A21.50, C151/A21.51, C110/A21.10 and C104/A21.4.
2. All water main fittings shall be Class 350 ductile iron mechanical joints (as manufactured by U.S. Pipe Foundry Co., or approved equal) with "Mega Lok" restraining glands in accordance with the latest AWWA/ANSI standard C111/A21.11.
3. All water mains and appurtenances shall be installed in accordance with the latest edition of AWWA C600.
4. Gate valves shall be "Mueller" or approved equal, iron body, non-rising stem, conventional packing, resilient seated, mechanical joint with restrained joint gaskets, pressure class 50, opening shall be left (CCW) and operation shall be by 2" square wrench nut.
5. Every pipe joint and every fitting shall be secured with "Field Lok 350" restrained joint gaskets (as manufactured by U.S. Pipe Foundry Co., or approved equal) unless otherwise authorized by the Design Engineer, and with prior approval.
6. All water mains and appurtenances (including water service lines up to the curb stop) shall be pressure tested and leakage tested to the satisfaction of the Design Engineer, and the Dutchess County Department of Health. This shall be done in accordance with the latest edition of AWWA Standard C600.
7. All water mains and appurtenances shall be flushed, disinfected, and tested to the satisfaction of the Design Engineer, and the Dutchess County Department of Health. This shall occur once in the field, and the editor of AWWA Standard C651, except for section 4.4.2 "the tablet method" will not be allowed.
8. Water mains shall be laid at least 10 feet horizontally from any existing or proposed sanitary or storm sewer line. The distance shall be measured edge to edge in cases where it is not practical to maintain a 10 foot separation, the Design Engineer and Dutchess County Department of Health may allow deviation with prior approval on a case-by-case basis, if supported by data from the Design Engineer prior to the installation of the water line.
9. Water mains crossing sanitary or storm sewer mains shall be laid to provide a minimum vertical distance of 18 inches between the outside of the water main and the outside of the sewer. This shall be the case where the water main is either above or below the sewer. The crossing shall be arranged so that the sewer joints will be eastward and as far as possible from the water main joints. Where water main crosses under a sewer, adequate structural support shall be provided for the sewer to maintain line and grade. The vertical separation also applies to water service connections. In cases where it is not practical to maintain a 10 foot separation, the Design Engineer and Dutchess County Department of Health may allow deviation with prior approval on a case-by-case basis, if supported by data from the Design Engineer prior to the installation of the water line.
10. The Design Engineer, Dutchess County Department of Health, and Village of Pawling shall be notified forty eight (48) hours before construction is started.
11. The water mains shall not be placed into service until a certificate of construction compliance has been submitted to and accepted by the Dutchess County Department of Health.
12. The Dutchess County Department of Health and the Village of Pawling must be notified forty eight (48) hours prior to pressure testing the water main improvements.
13. Deflection of joints on water main shall not exceed 50% of the maximum deflection recommended by the manufacturer, or as ordered by the Design Engineer.
14. Exact location of all fittings shall be approved in the field by the Design Engineer.
15. The Design Engineer shall inspect all thrust blocks and sewer/drainage crossings prior to backfill.
16. The contractor shall notify the Design Engineer every day that water main construction shall occur.

A. Hydrostatic Pressure Test

Hydrostatic testing shall be performed in accordance with the revision of ASME B600, Section VIII, Division 2, "Hydrostatic Testing".

1. Test pressure shall be as scheduled or, where no pressure is scheduled, shall be 150% of the maximum working pressure or 150 psi, whichever is higher.
2. The pressure and temperature shall be maintained for a period of at least 2 hours, unless a longer period is requested by the Engineer.
3. The test medium shall be water.
4. The contractor shall furnish all labor, materials, and equipment necessary for all required pipe testing.

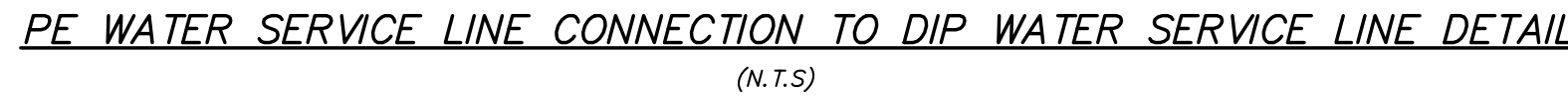
B. Hydrostatic Leak Test

1. The leakage test shall be conducted concurrently with the pressure test.
2. The rate of leakage shall be determined at 15-minute intervals by means of volumetric measurement of the liquid or gas being added to the system. The test shall proceed until the rate of leakage has stabilized or is decreasing below the allowable value. After the test has been completed and the test pressure has been released, the test pressure shall be maintained for at least another 15 minutes.
- a. At the completion of the test, the pressure shall be released at the lowest point from the system or applied to the system.
3. All exposed piping shall be examined during the test and all leaks, defective welds or joints shall be repaired or replaced before repeating the test.
4. The allowable leakage will be determined by the following formula.

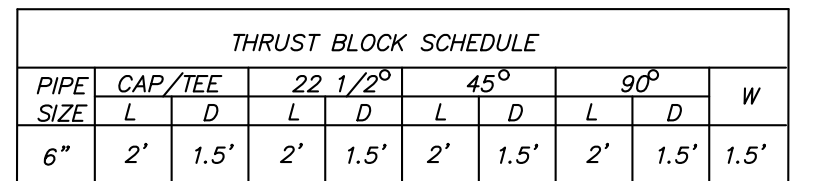
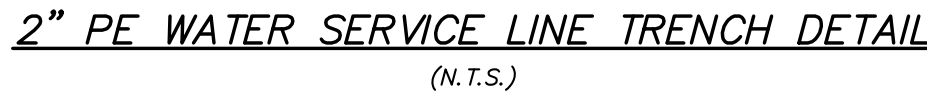
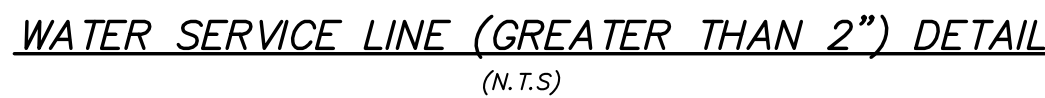
5. Regardless of the above discharges, any visible leaks shall be permanently stopped.
6. The test medium shall be water.
- C. **Disinfection**

1. Prior to placing the water main into service, the new pipe shall be cleaned and disinfected in accordance with the latest revision of AWWA C900, Section 4.4.3, "The Disinfectant Method". The test medium shall be water.

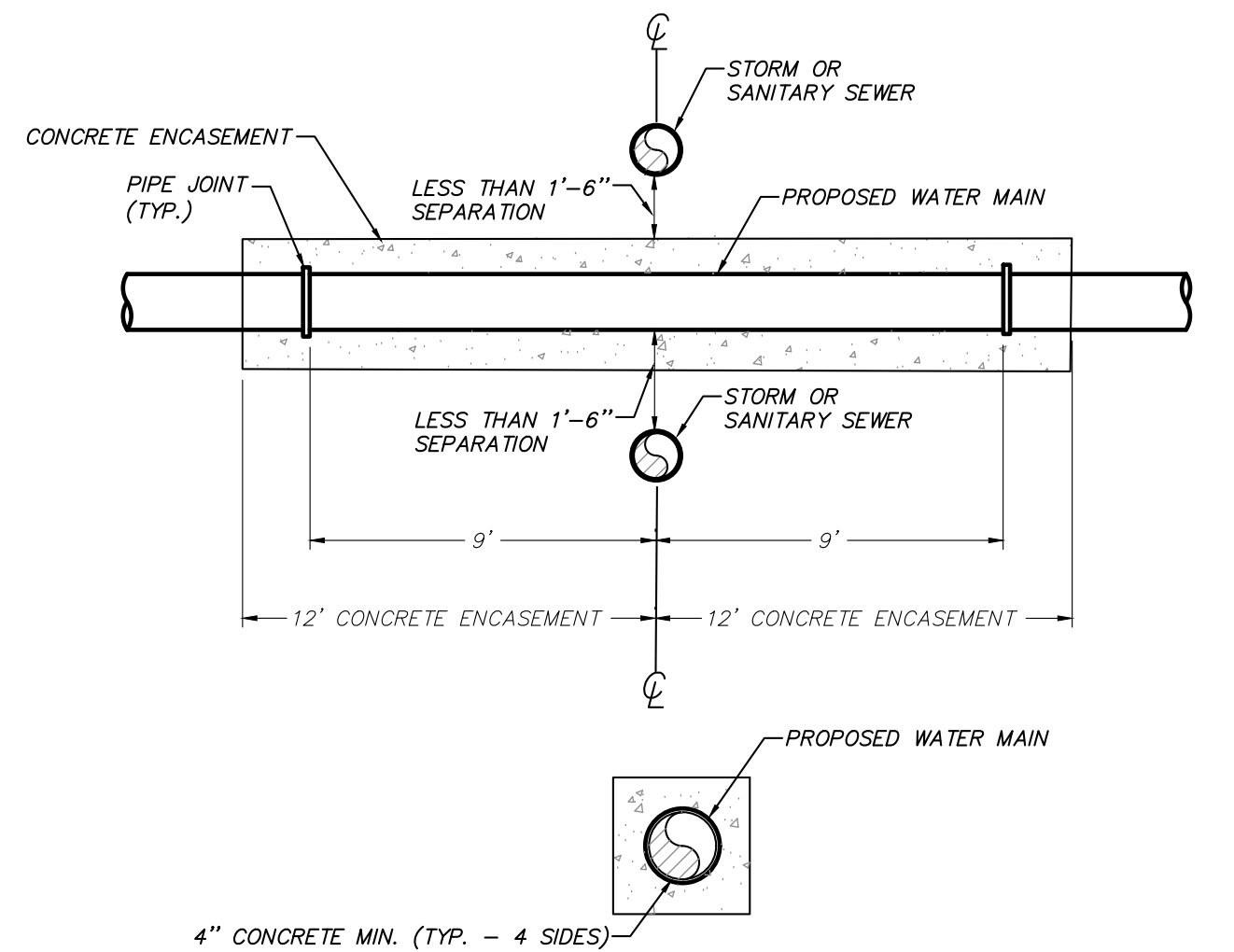
 1. All work under this section shall be performed in the presence of the Design Engineer, and a representative of the public health authority having jurisdiction, as required.
 2. Chlorination shall be scheduled such that sampling and flushing will be performed during normal daylight working hours. The contractor shall provide acceptable evidence of sampling and flushing on all supply water lines. The contractor shall provide acceptable evidence of cross connection.
 3. Chlorination shall be by the use of a solution of water and liquid chlorine, calcium hypochlorite or sodium hypochlorite and the solution shall be contained in the pipe or structure as specified.
 4. Chlorination of dirt and foreign matter shall be removed by a thorough cleaning and flushing of the pipeline or structure.
 5. The chlorine solution shall be introduced to pipelines through corporation stops placed in horizontal access to the structures by means of tubing extending into the structure, the structure, or other approved methods.
 6. The application of the chlorine solution shall be by means of a controlled solution feed.
 7. The rate of chlorine application to the structures by means of tubing extending into the structure, the pipe or structure that the resulting free chlorine residual shall be between 25 and 50 parts per million (PPM) or milligrams per liter (mg/L).
 8. The chlorine retention time shall be at least 24 hours, with a minimum of at least 24 hours, unless otherwise directed. During the retention period, all valves and hydrants within the treated section shall be operated.
 9. The chlorine retention time shall be less than 120 PPM (or mg/L) at any point in the pipe or structure at the end of the 24-hour retention period.
 10. When making repairs to, or when specified, structures and portions of pipelines shall be protected by the application of chlorine solution containing not less than 200 PPM (mg/L) of free chlorine. The solution shall be applied with a brush or sprayed on the entire inner surface of the empty pipes or structures. The structures disinfected shall remain in contact with the chlorine solution for a minimum of 24 hours.
 11. After the required retention of chlorinated water in the pipe or structures, they shall be thoroughly flushed until the replacement water shall, upon test, both chemically and microbiologically, be of the quality desired by the public from the existing water supply system.
 12. The disposal of chlorinated water from any pipe or structure shall be such that it will not cause damage to any vegetation, fish, or any animal life.
 13. The Contractor shall make all arrangements for the testing of water quality by an independent laboratory (lab) and the sampling of water. Samples (100 mg/L) will be collected from the line and at the end of the line. Sampling shall be performed at 24 hours apart, shall be collected from the new water main. At least 1 set of samples must be collected from every 1,000 LF of the new water main, plus one set from the end of the line and at the end of the line. Sampling shall be performed and decontaminated by flaming. Bacteria sampling will be performed by a New York State Licensed and or registered professional laboratory. Collection samples will be made for chlorine residual, total chlorine, and total coliforms. The results of the tests shall be forwarded to the Design Engineer, the Village of Pawling Water Department and the public health authority having jurisdiction.
 14. The water quality requirements shall be met by the new water main installed through the new system to a public supply or the use of the new system.



WATER LINE CROSSING DETAIL



(N.T.S.)



(N.T.S)

1	1-30-24	REVISED FOR PLANNING BOARD SUBMISSION
---	---------	---------------------------------------

1	1-30-24	REVISED FOR PLANNING BOARD SUBMISSION	JJS
NO.	DATE	REVISION	BY



WATER DETAILS

PROJECT NUMBER	18135.100	PROJECT MANAGER	J.M.W.	DRAWING NO. D-4	SHEET 8 9
DATE	12-29-23	DRAWN BY	I.B.		
SCALE	AS NOTED	CHECKED BY	E.J.P.		

