Meredith Badalucca

From:

Derek Albertson

Sent:

Thursday, January 18, 2024 1:20 PM

To:

Meredith Badalucca

Subject:

245 Route 32; proposed residential development

Attachments:

245 rte 32 ProposedCondoDevelopment_Wright_Pierce-Cross-Check 9-26-2023

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Good Afternoon: With regards to the proposed 245 Route 32 Condo Development plans (attached). We had met oto discuss what we needed from you to complete our site plan review. As mentioned in our last meeting, this is a private development. As such, we will make recommendations for the site based on our findings, with most of our review efforts focused on the sewer connection between the private development and Montville owned existing sewer main.

Comments from WPCA Engineer have been provided in the attached report with various colors. Green boxes indicate no further review needed, yellow boxes/comments indicate recommendations for the developer as they are on the private side, while red comments are still outstanding, require additional information, and review. Required Items from the applicant:

- Final "Sanitary Sewer Report" (Page 5 in attached review document)
- "Revised Report Summary of Proposed Sewage Flow" (Pump Peaking Factor) (Page 4 in the attached review document)
- "Fixture Count Spreadsheet and Table of Water Service Line Sizing for a Supply System with Flush Tank" (Page 6 in the attached review document)
- The plans still indicate that Unit 1 is on an individual grinder. According to the report, this should not be the case. The Plans should be updated to reflect this change or indicate why this change has not been made. (Page 5 in the attached review document).

Derek J. Albertson

Superintendent/Administrator

CTDEEP Operator IV (Treatment) / NEWEA Operator IV (Collections)

M.A., Public Administration / B.S., Geology

860.886.3666 / dalbertson@montville-ct.org



FULLER ENGINEERING & LAND SURVEYING, LLC

525 John Street - Second Floor - Bridgeport, CT 06604

Phone: (203) 333-9465 Fax: (203) 336-1769

10 August 2022

Liz Burdick, Planning Director Town of Montville Planning 310 Norwich-New London Turnpike Uncasville, Connecticut 06382

RE;

Condition of Approval Response 22 Unit Condominium 245 Route 32 Uncasville, Connecticut

The following are our responses to comments from multiple departments in a letter from various review agencies. Our responses are designated in italics.

State of Connecticut Department of Transportation - District 11, Carlos Wimberly dated June 15, 2022

Response: Drawings have been revised per comment letter received. Detail Sheet C-6.4 has been added.

Planning Director Comments — Liz Burdick dated 3/22/2022

1. Sheet "Zoning Improvement Location Plan" – Delete zoning compliance table on this sheet. It is located properly on Sheet C-2.1.

Response: We respectfully request this chart remain on the survey since the intent of the survey is to depict a zoning analysis of the current site as it presently exists. The table located on Sheet C-2.1 expands the information to compare the proposed conditions to the existing conditions.

- Sheet C-2.1 Revise sheet to identify space in front of garage as 1 parking space.
 Response: All spaces in front of the garages now indicate one(1) car inside and one (1) car outside.
- Sheet C-3.1 Note 4 Add zoning dept. & fire marshal's office.
 Response: Note 4 has been revised to add "zoning department, and fire marshal's office"
- 4. Sheet C-3.2 Note 4 Add zoning dept, & fire marshal's office.

Response: Note 4 has been revised to add "zoning department, and fire marshal's office"

Note 5 - Reference 2002 CT E&S Guidelines

Response: Note 5 has been updated to reflect the 2002 CT E&S Guidelines.

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- 5. Sheets C-6.1 to 6.3 Add notes regarding maintenance of drainage sructures to the plan in addition to Appendix O of the engineering report.
 - Response: All drainage details have been modified to with direct references to Appendix 'O' for the periodic maintenance requirements.
- 6. Sheet C-4.1 (E&S Control Plan) Any future construction staging areas (office trailer, laydown, etc.) shall require review and approval by the Zoning Official or Planning Director. <u>Condition of Approval.</u>
 - Response: Note 7 has been added to Sheet C-4.1 indicating the above Condition of Approval.
- 7. Sheet C-5.1 Revise title to "Landscape & Lighting Plan." Cond. Of Approval.

 Response: Title on Sheet C-5.1 has been revised to "Landscape & Lighting Plan"
- 8. Comment skipped on Director's memo.
- 9. Comment skipped on Director's memo.
- 10. ZR Sec. 17.3 (GIS) ~ Digital data in accordance with this section shall be provided to the Planning Office prior to issuance of any zoning permit to start work. <u>Condition of Approval</u>.

 Response: Acknowledged a digital copy of the data will be submitted once final Zoning approval has been issued in response to the Conditions of Approval.
- 11. ZR Sec. 19 (Signs) Proposed complex sign on the face of the decorative wall requires review & approval of its size by the Zoning Official (zoning permit). Condition of Approval.
 Response: Acknowledged The note referring the sign on Sheet C-2.1 has been modified to indicate such approval is required.

Uncas Health District - Michael J. Kirby, R.S. dated 3/16/2022

- 1. In addition to the garage, an asbestos inspection of the house must also be completed. If asbestos is found an abatement must be conducted.
 - Response: Acknowledged, prior to demolition, both the house and garage will be inspected for an asbestos determination. If found, abatement procedures will be implemented.

CLA Engineers, Inc. - Thomas L. Cummings, P.E. dated 3/18/22

- A detail of the handicap ramps per CTDOT drawings must be added to the plans.
 Response: Detail Sheet C-6.4 has been added to the drawing set in response to comments by the CTDOT.
- 2. Tree clearing must be adjusted and not shown on the southerly neighbor's property.

 Response: The tree clearing line has been adjusted to limit any tree clearing to the subject property only.

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3. The exterior lighting detail must address spillage and glare. The note referencing "lighting schedule" must be clarified.

A note has been added to the Lighting Notes indicating the installation of "House Shields" to control light spillage and glare. The Detail on Sheet C-6.1 has also been updated to specify the "House Shield."

- 4. Permeability testing per CT DEEP recommendations must be performed in the proposed subsurface drainage areas once the filling is completed. The Town must be provided with the data prior to the installation of the subsurface galley system
 - Response: Acknowledged. A note has been added to Sheet C-3.1 indicating the permeability testing requirement.
- 5. The note added to the plans on Sheet C-3.1 regarding a CT Licensed Engineer designing and inspecting the block wall installation must be added to the wall detail, also the note must delete the Town Engineer and add Town Building Inspector.

Response: The note has been revised on Sheet C-3.1 and added to the detail on Sheet C-6.1.

- 6. The plans must be revised to read Schedule 80 PVC as appropriate. Response: Sheet C-3.1 has been revised to indicate Sch 80 PVC pipes where specified.
- 7. A detail of the level spreader must be added to the plans. The plunge pool detail must be

Response: A level spreader detail has been added to Sheet C-6.3.

8. The E&S Control Bond amount of \$27,258 is satisfactory. Response: Acknowledged.

Sewer System Comments - Mariusz Jedrychowski & Joe Hausmann, Wright Pierce Memorandum, dated 3/18/2022

Sewer Calculation notes say 21 units with Existing house being 22nd unit. Response: This was corrected to exclude the existing house, but include (22) twent Montville WPCA the Calculations depict. Bold note on Summation of Proposed Sewage Flow spread guidelines. Confirm with been removed.

Appears in line with Derek and Jon.

2. The calculations utilize an average daily flow of 400 gpd per 3-bedroom unit. Response: This flow may also be found in the CT-DPH Code Technical Standards Section IV. Design Flows, Table 4. (Although the code is for Onsite Sewage Disposal, the Design Flows shall be similar for the Sanitary Sewer System).

This office acknowledges Town of Montville should verify this flow with past developments to ensure consistency with typical flow assumptions.

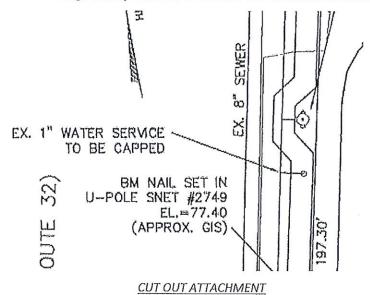
3. Discrepancy between 6" or 8" Dia. Size Sanitary Sewer in street.

Response: Reference to "Grading, Drainage, & Utility Plan for Commercial/ Residential Complex Norwich-New London Road (CT Route 32) Montville, Connecticut Prepared for Tomashe LLC 19

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Tulsa Court Monmouth Junction, NJ 08852. By Development Solutions, LLC Dated September 19, 2014, Revised through 3/17/15". Said drawing was used as the base and depicts the Sewer Lateral to be 6" service, but the Sanitary Main north of the San. MH (where this development will tie in) lists the Existing Sanitary Sewer as 8" Service. See Cut Out Attachment:



Response Con't: As a safety factor, and provided for confidence in not overwhelming the existing Sanitary Sewers' capacity, @ 8"Ø QAllow= 0.856 cfs, @ 6"Ø, Calculated QAllow= 0.397 cfs Using the same slope and material, which are both > the proposed Q (flow) going into the System from the 22 units including Stormwater infiltration which was calculated as 0.054 cfs. Therefore, either 6" or 8" size main will suffice. This writer agrees that the Existing Sanitary Sewer service should be verified to avoid any future confusion or conflict.

Note Added to Existing San. Sewer Line on Utility Plan DWG No. C-3.2. as depicted above, "EX. 8" Sewer".

4. Sewer Calculation Peak Pumping factor is 5000 GPD / pump therefore x 2 = 10,000 GPD or 0.0155 cfs which is < 0.054 cfs Peak factor used in calculation.

Response: See the Revised Report Summation of Proposed Sewage Flow (Pump Peaking Factor);

Plan Review Comments — Mariusz Jedrychowski & Joe Hausmann, Wright Pierce Memorandum. dated 3/18/2022

There is a none on Sheet C3.2 that calls out San MH Lift Station, Response: The callout has been removed.

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Joe recommends 8" on private side.

	0	The sewer line from MH on the site to the public sewer in the street labeled as 6"
		Response: Conveyance Calculation was provided for said 6" Lateral. To be included in the revised Sanitary Sewer Report.
	0	The pipe material for the 2" force main does not appear to be labeled.
		Response: 2"Ø PVC label was added to the Utility Plan Sheet C3.2. e-One recommends the use of HDPE 11 pipe for force main piping.
	•	The 6" PVC sewer coming into each of the 2 lift stations is too shallow.
		Response: 6" pipe invert was adjusted to be 3'-6" to the top of the pipe in lieu of to the invert.
	6	The system is being referred to as a Low-Pressure Sewer (LPS), but this is not entirely ac Unit 1 still on The system has both low pressure and conventional gravity sewer elements.
		Response: The individual grinder pump in each unit have been eliminated and a gravity lateral is being proposed from each unit to a 6" gravity distribution sewer to the communal lift stations. This has been depicted on Plan and in Report. Conveyance Calculations have been provided for
		6" should be standard. However, this is a private
	•	The Town of Montville WPCA should make it development, so they are free to do what they want system and are to be maintained privately.
		Response: Acknowledged.
	0	It is recommended that the lift stations and the private grinder pumps have some form of emergency backup power.
		Response: Individual grinder pumps have been eliminated for each unit; a note was added to the plan callout stating the pump station model WH483/ WR483 Triplex with Emergency Backup shall be provided.
Water System Comments - Mariusz Jedrychowski & Joe Hausmann, Wright Pierce Memorandum. dated 3/18/2022		
	•	It is understood that the plan is to have individual water meters at each of the two new 22 condominiums, instead of a single main meter.
		Response: Each block of Condominiums, one of 9 (North Side) one of 13 (South Side) make up the total of 22 Condo's; which will each have its own separate water meter for each individual unit for a total of 22 total meters.
	0	Montville's WPCA ownership of the public water line ends at the proposed new tap at the street.
		Response: This has been depicted in Plan.

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Provide the minimum separation distance of 10' horizontally between the water line and sanitary lines. Response: 10 feet has been provided between said utilities, dimension has been added to the plan set. Please provide a fixture count or other flow analysis to confirm the sizing of the 2-Inch feeder lines on the property. Response: Fixture count spreadsheet has been provided as well as a Table of Water Service Line-Sizing for a Supply System with Flush Tank. The 2" feeder line size is adequate; Total Water Fixture Units (WFU) = 224 yields 2" size line adequate up to 250 WFU. [See Attachment RE: WFU] If the 2-inch size is confirmed, instead of a 2-inch tap that is branching into two 2-inch feed lines, it is preferred to have the tap be a 12" x 4" tap at the main, and then split the 4-inch pipe into the dual 2-inch feeder lines. Response: Since 2-inch feeder line is confirmed adequate, New 12" X 4" Tap was provided in lieu of the 12" X 2" Tap. Call out the 12" X 6" Tap for the Fire Service main as well. Response: Call out was added to Plan on Sheet C 3.2 "New 12" X 6" Tap for Fire Service line. • The 6" fire service line also needs to have valving shown. Response: Valving was added to 6" Fire Service Line. Suggest looping the water lines or installing flushing devices on the dead-ends, Response: A closed loop system has been designed with Blow Off Hydrants at the terminal end of each building row. Isolation valves have been added for further zone control. Please confirm if sprinklers will be required in the building for fire protection. If so, please show those connections and confirm that adequate fire flows exist with sprinklers and hydrant active.

Town of Montville — Water Pollution Control Authority Memorandum, dated 3/15/2022. To Liz Burdick, Town Planner, From Derek Albertson, WPCA Superintendent.

be constructed in groups of two (2) with firewall separation.

Sawar

- Field Conditions will verify the receiving sewer main at street is 8-inch; a 6-inch line (indicated) may exceed capacity during simultaneous pumping of both proposed lift stations.
 - Response: The line was checked with both 8" & 6" sizes, verifying that the main is adequate to receive the additional design flow from the New Condominium Complex.

Response: Sprinkler's are not required for this Residential condominium complex. The units shall

Individual grinder pumps may not be required if sewer lines are placed at a greater depth

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Response: Basements have been eliminated, thus negating the need for individpumps. All units have been designed to discharge into a gravity line which leads to pumps at the eastern end of the parking area.

- All maintenance of sewer and associated equipment is the requirement of property of Response: Maintenance of sewer and associated equipment is the responsibility of the owner has been acknowledged and directed to the owner.
- Emergency power is recommended to ensure functioning of the systems during storm events due to proposed storage volumes in sewer equipment.

Response: The e-ONE pump station units are to be equipped with emergency back up power, Note was added to the plan set.

C-3.2 drawing indicates an erroneous notation for a pump station.

Response: Erroneous note has been removed.

Lift stations located east of the two buildings do not meet depth requirements (36 inches). Response: Inverts of the inlet pipe were lowered to 3'-6" (42") to top of pipe.

Water

- There is an option to meter each unit (noted curb stop at each) or one meter at street. Response: Proposal is to meter each individual unit.
- Recommend the configuration from 12-inch water supply main to 4-inch pipe then two 2-inch supply lines rather than what is depicted.

Response: The above change has been incorporated into the design. Refer to Utility Plan Sheet C-3.2.

Blow off recommended for each 2-inch line

Response: Blow off hydrants have been specified at the terminal ends of each building side.

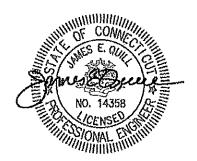
Recommendation that the water supply lines be "looped"

Response: Water distribution lines have been re-designed as a loop system.

James E. Quill, P.E.

James E. Quill

CT PE # 14358



The Quill Group Fuller Engineering & Land Surveying, LLC Atlantic Consulting & Engineering, LLC Fairfield Testing Laboratories, LLC



C-1 / RT 32 OZ DISTRICT MAP 70 LOT 010-000

PROPOSED 22 UNIT CONDOMINIUM DEVELOPMENT

245 NORWICH-NEW LONDON ROAD (CT ROUTE 32) MONTVILLE, CONNECTICUT

APPLICANT
WESTERN GROUP, LLC
338 Westport Road
Wilton, CT

OWNER
WESTERN GROUP, LLC
338 Westport Road
Wilton, CT

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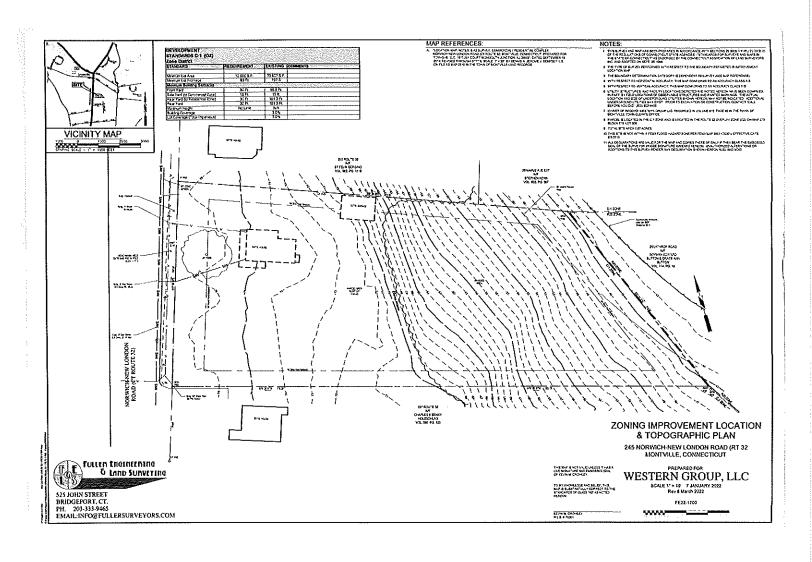
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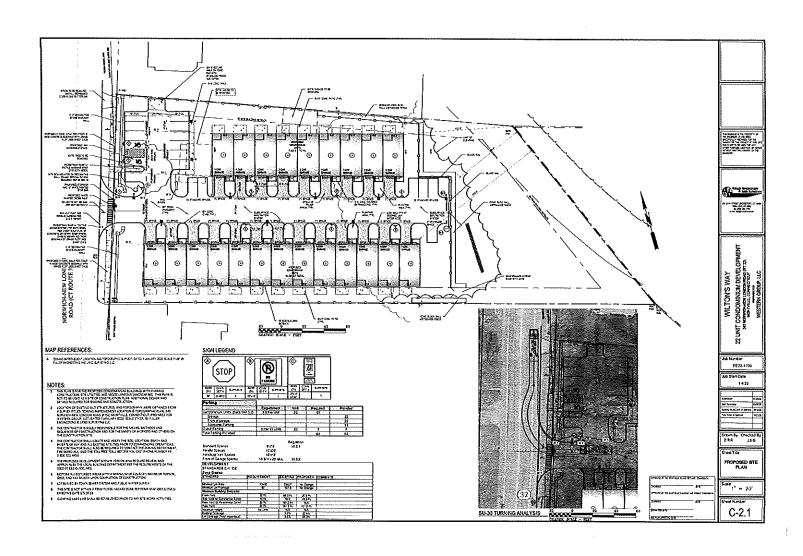
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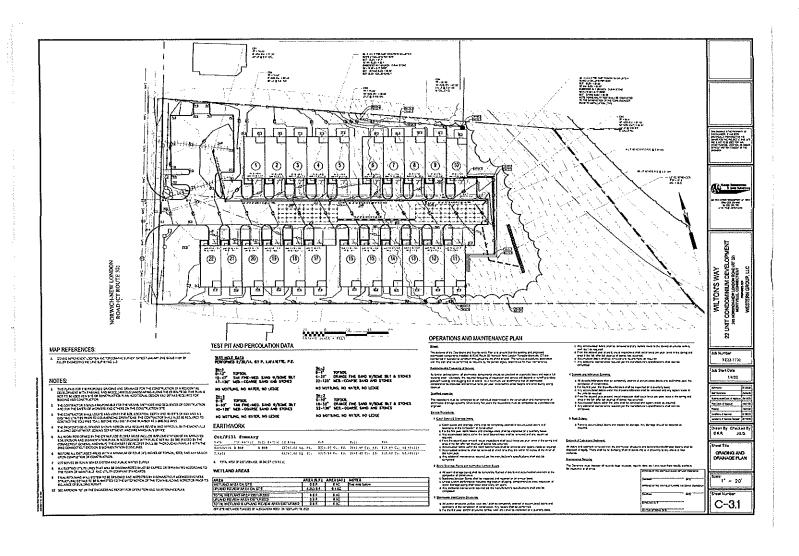
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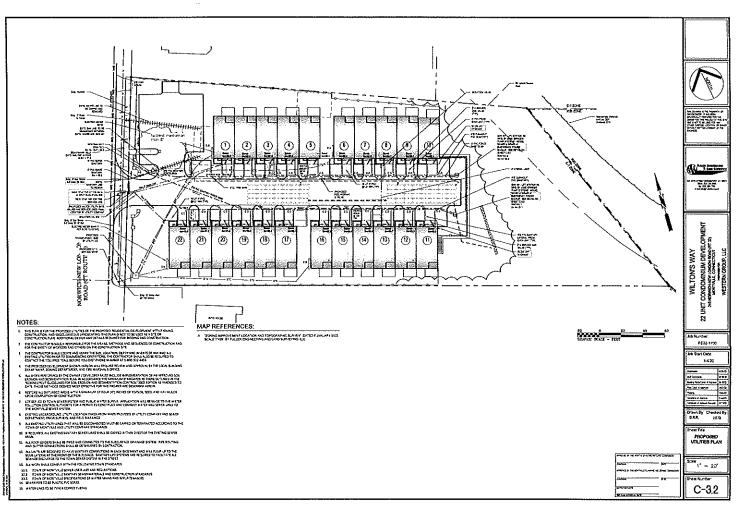
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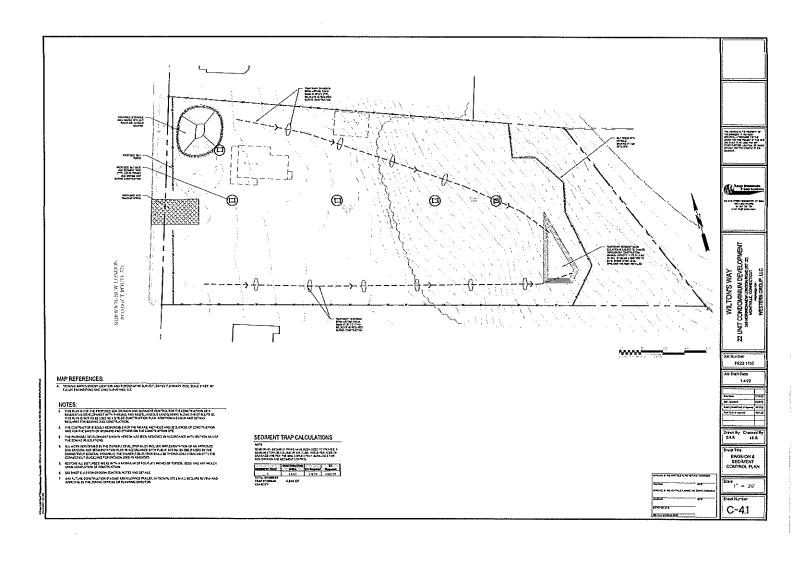
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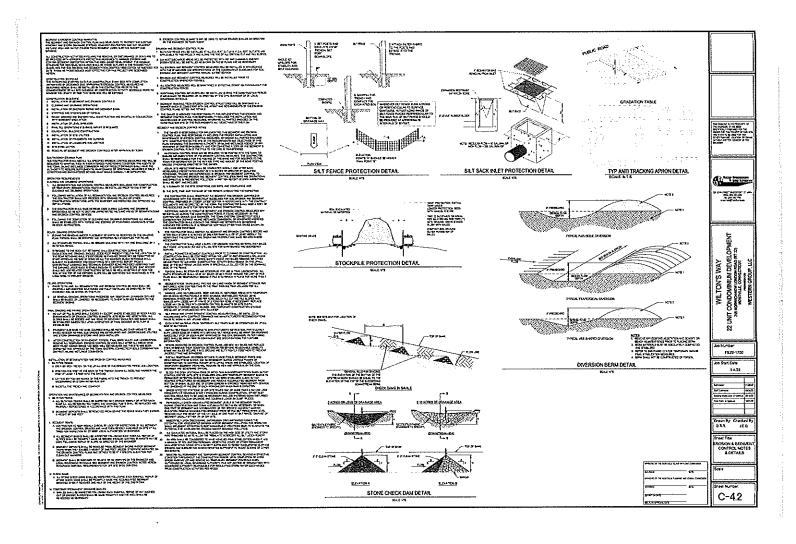


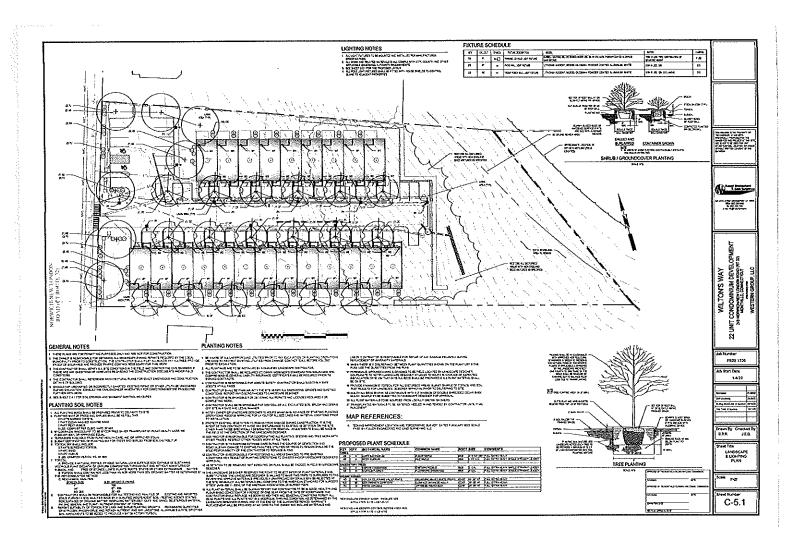


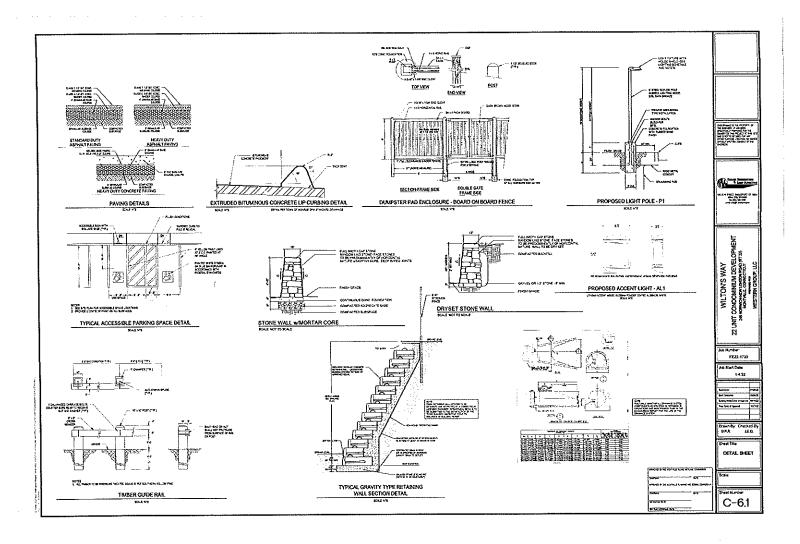


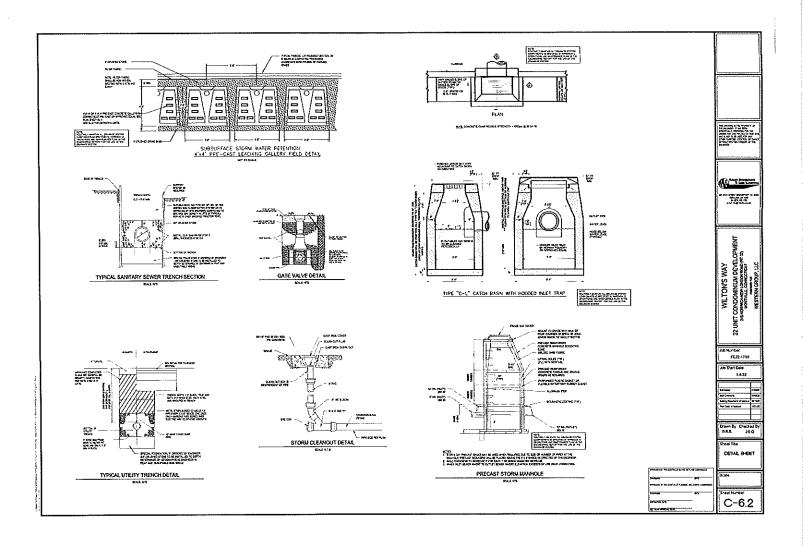


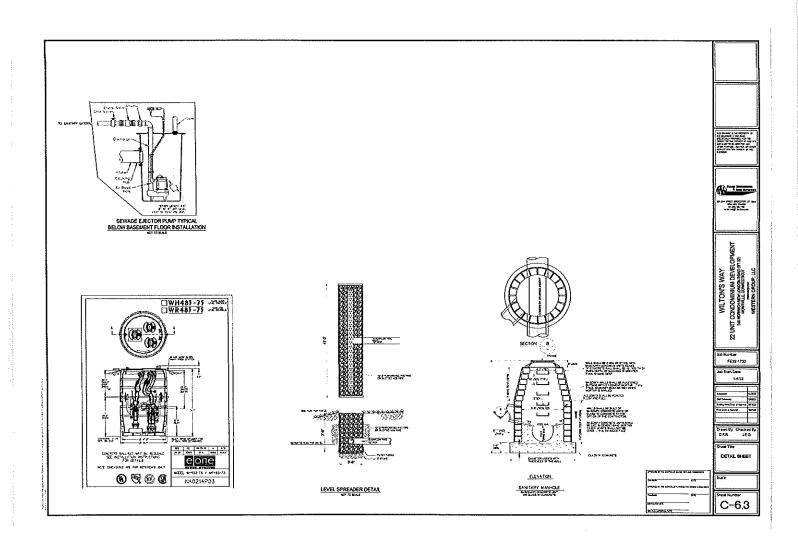


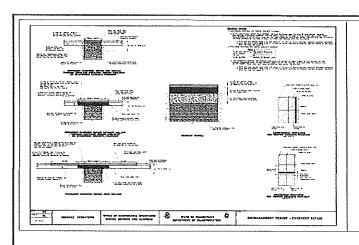


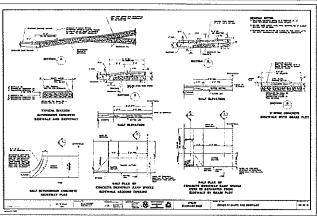


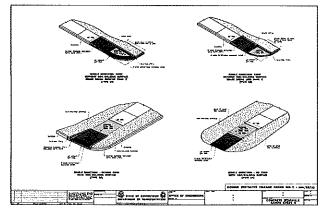












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C-6.4