

TABLE OF ELEVATION

DESCRIPTION	· · · · · · · · · · · · · · · · · · ·	ELEVATION
TOP ROOF		571
CEILING		568
	20 FT. CLEAR	
TOP FLOOR		548
CEILING		544
	40 FT. CLEAR	
FIN. FLR.		504

BULK REQUIREMENTS:

ZONE-M1	REQUIRED	PROPOSED		
MINIMUM LOT AREA	3 ACRES	39.97 ACRES		
MINIMUM LOT WIDTH	200 FT.	2,260+ FT.		
MINIMUM FRONT YARD	60 FT.	124 FT.		
MINIMUM SIDE YARD	50 FT.	60 FT.		
MINIMUM TOTAL SIDE YARD	100 FT.	183 FT.		
MINIMUM REAR YARD	50 FT.	579 FT.		
MAXIMUM BUILDING HEIGHT	40 FT.	53 FT. *		
MAXIMUM BUILDING STORIES	2 STORIES	2 STORY		
MAXIMUM DEVELOPMENT COVERAGE	50%	23%		

PARKING CALCULATIONS TABLE:

WORK SHIFT:	
DAY SHIFT	100 EMPLOYEES
EVENING SHITF	50 EMPLOYEES
TOTAL	150 EMPLOYEES
2 PARKING SPACES/3 EMPLOYEES	100 SPACES
OFFICE 9,377 SQ.FT.:	
1 PARKING SPACE/200 SQ.FT.	47 SPACES
TOTAL REQUIRED	147 SPACES
TOTAL PROVIDED	157 SPACES

09-11-23 PER PLANNING BOARD COMMENTS 8-22-23 07-26-23 PRELIMINARY SUBMISSION 1 04-11-23 LANC & TULLY MEMO 3-24-23 REVISION DATE



ATZL, NASHER & ZIGLER P.C ENGINEERS-SURVEYORS-PLANNERS 232 North Main Street New City, New York 10956 Tel: (845) 634-4694 Fax: (845) 634-5543 E-mail: info@anzny.com Web: www.ANZNY.com

PROJECT: SUMMERVILLE INDUSTRIAL PARK

> VILLAGE OF CHESTER ORANGE COUNTY, NEW YORK

ZONING BOARD MAP

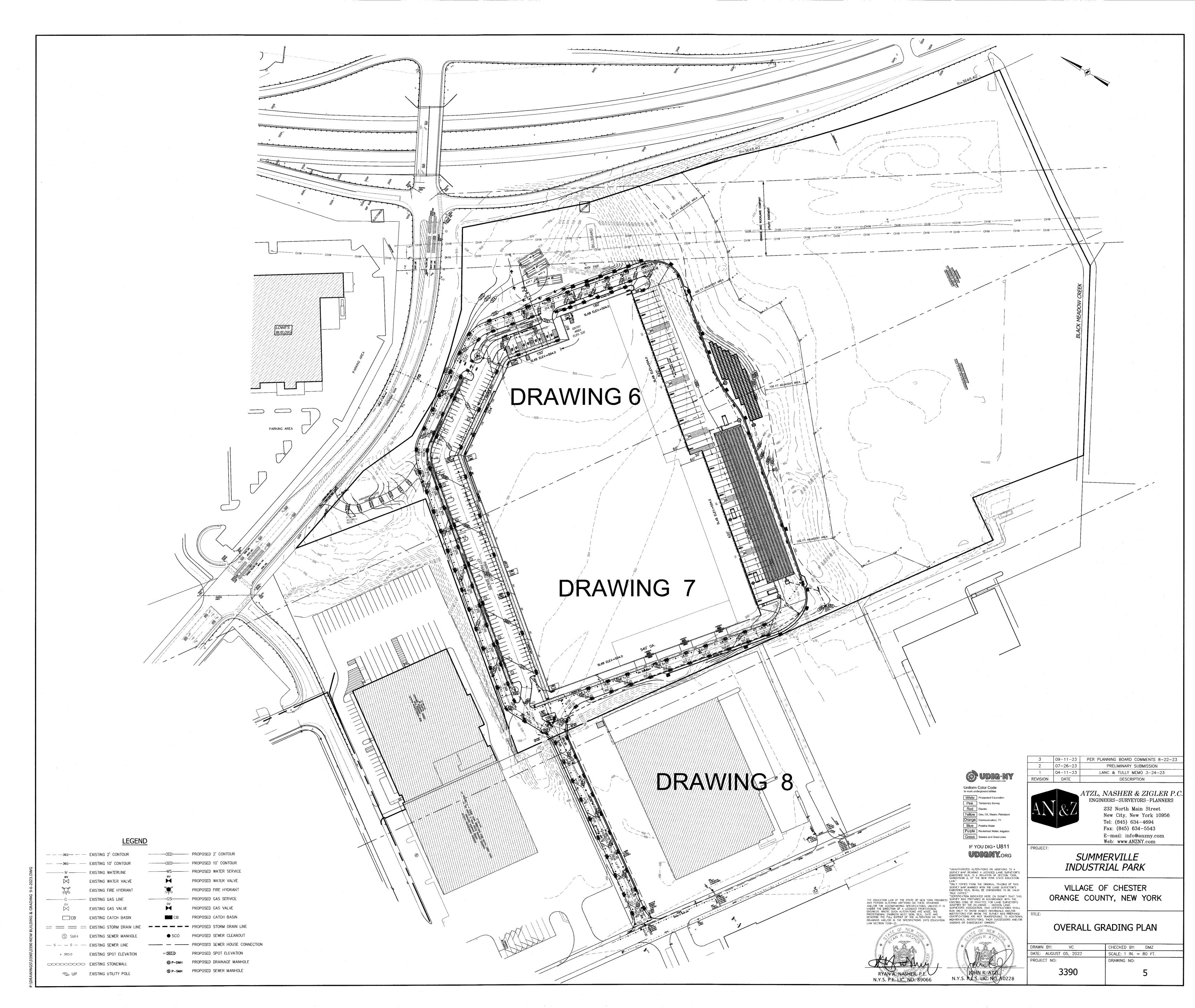
CHECKED BY: DMZ DRAWN BY: DATE: AUGUST 05, 2022 SCALE: 1 IN. = 50 FT.

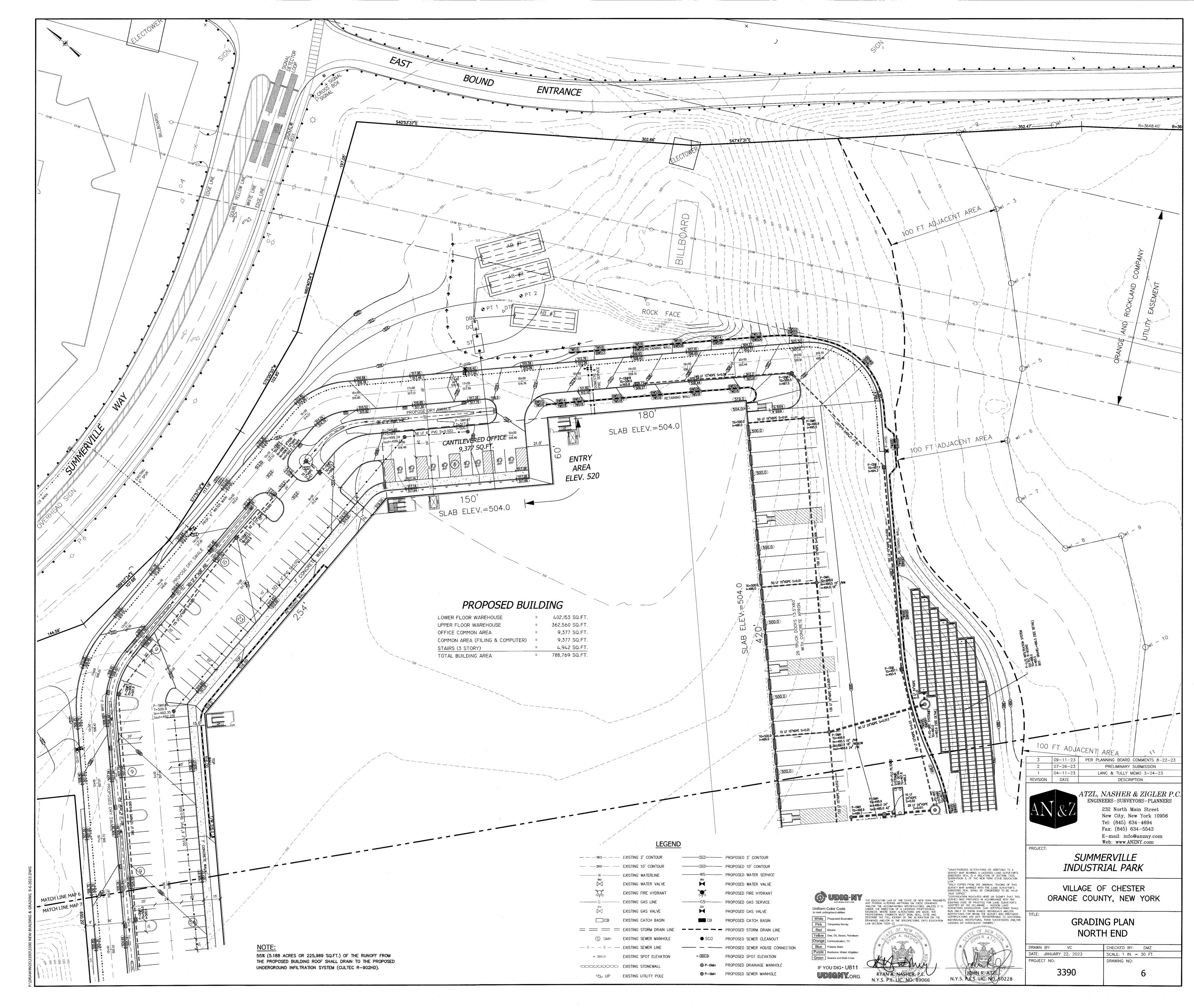
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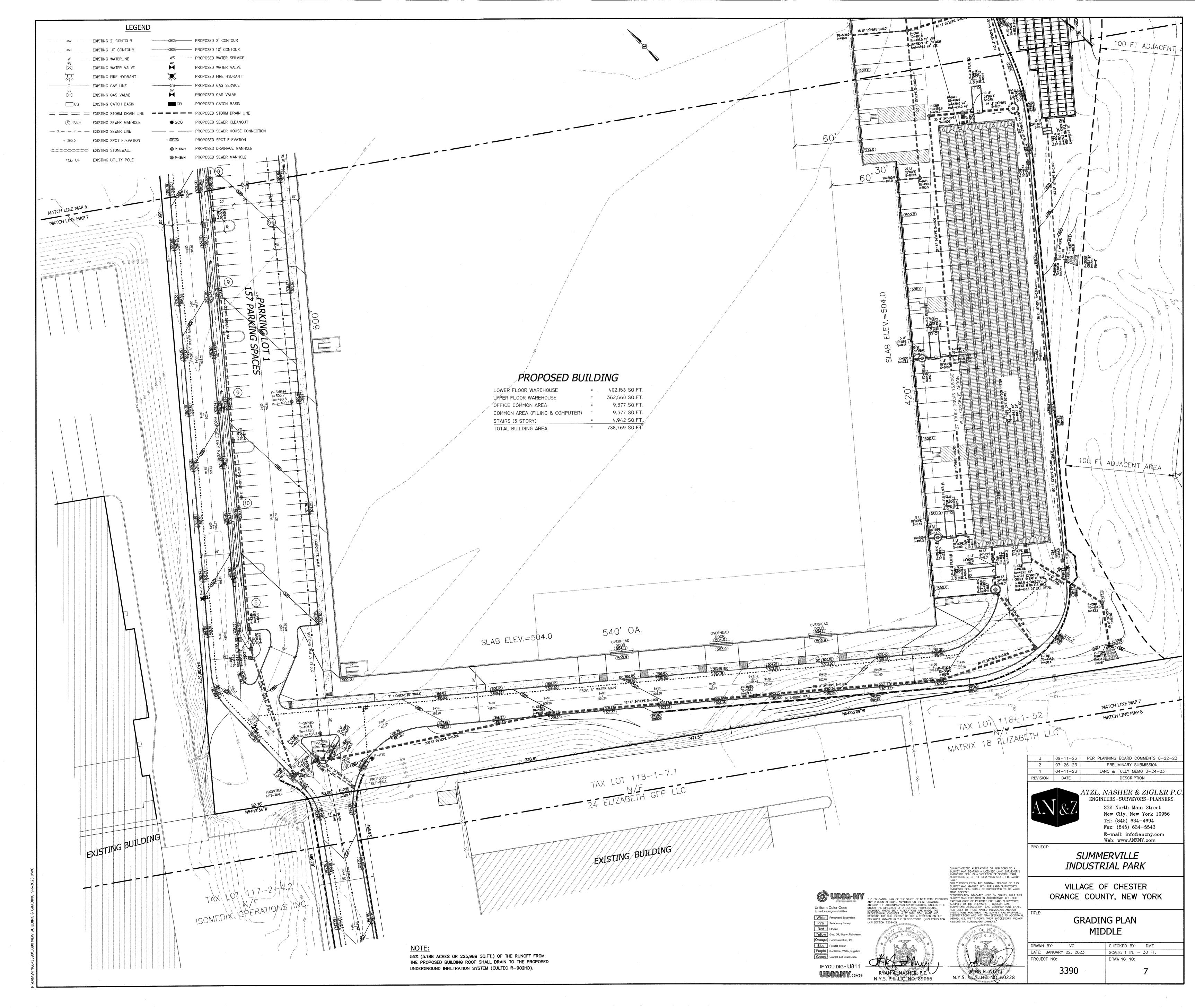
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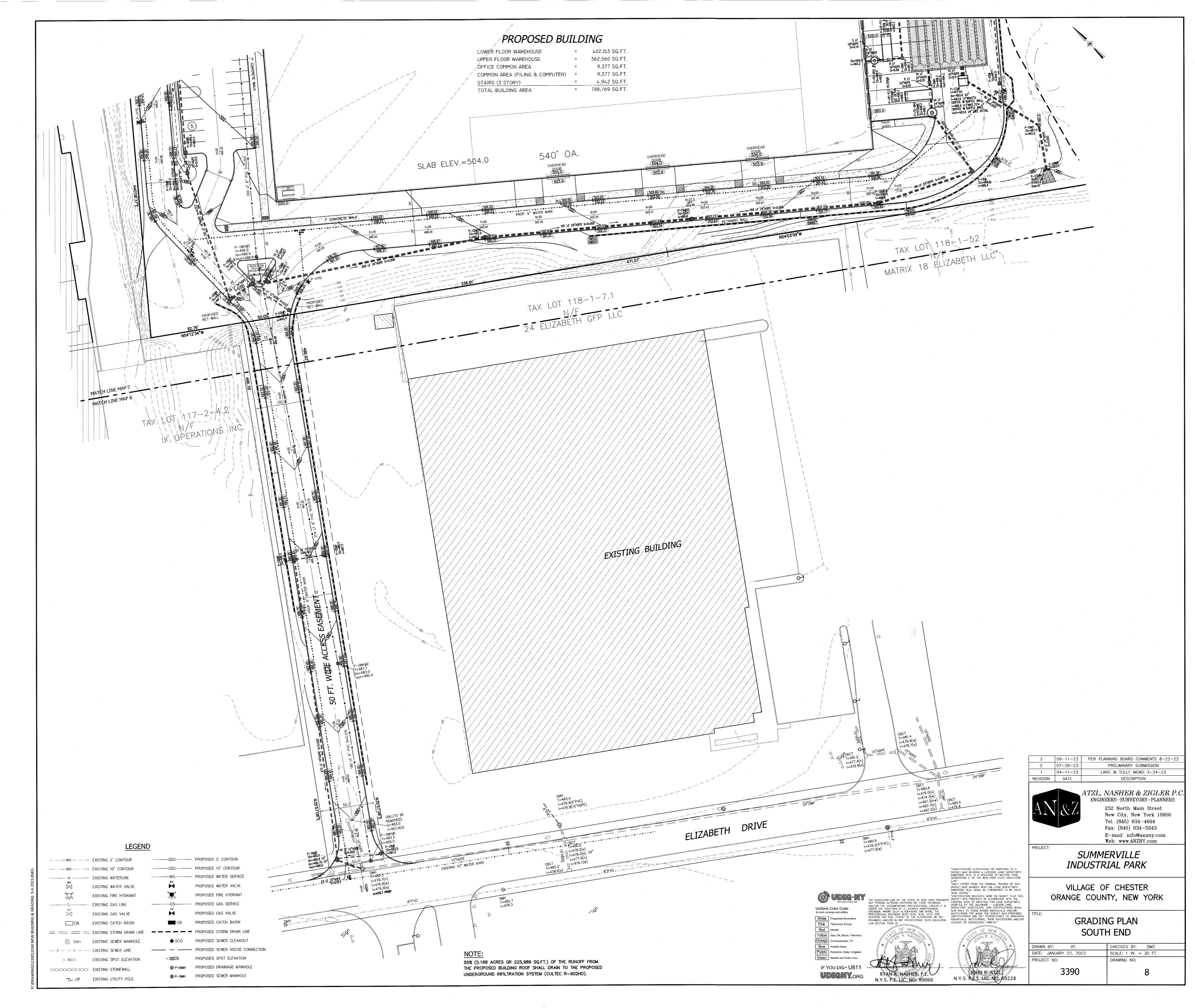
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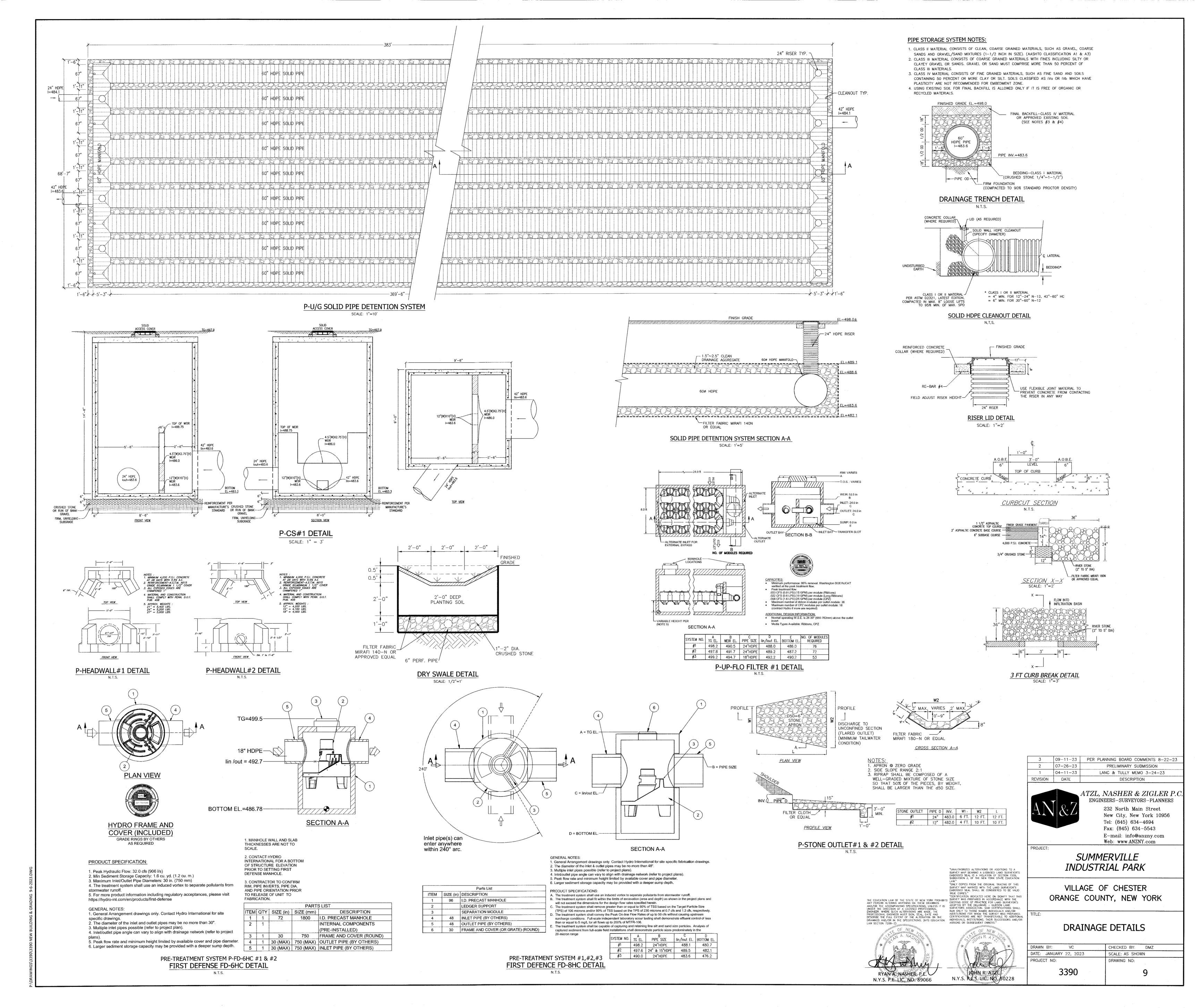
"UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A SURVEY MAP BEARING A LICENSED LAND SURVEYOR'S EMBOSSED SEAL IS A VIOLATION OF SECTION 7209, SUBDIVISION 2, OF THE NEW YORK STATE EDUCATION

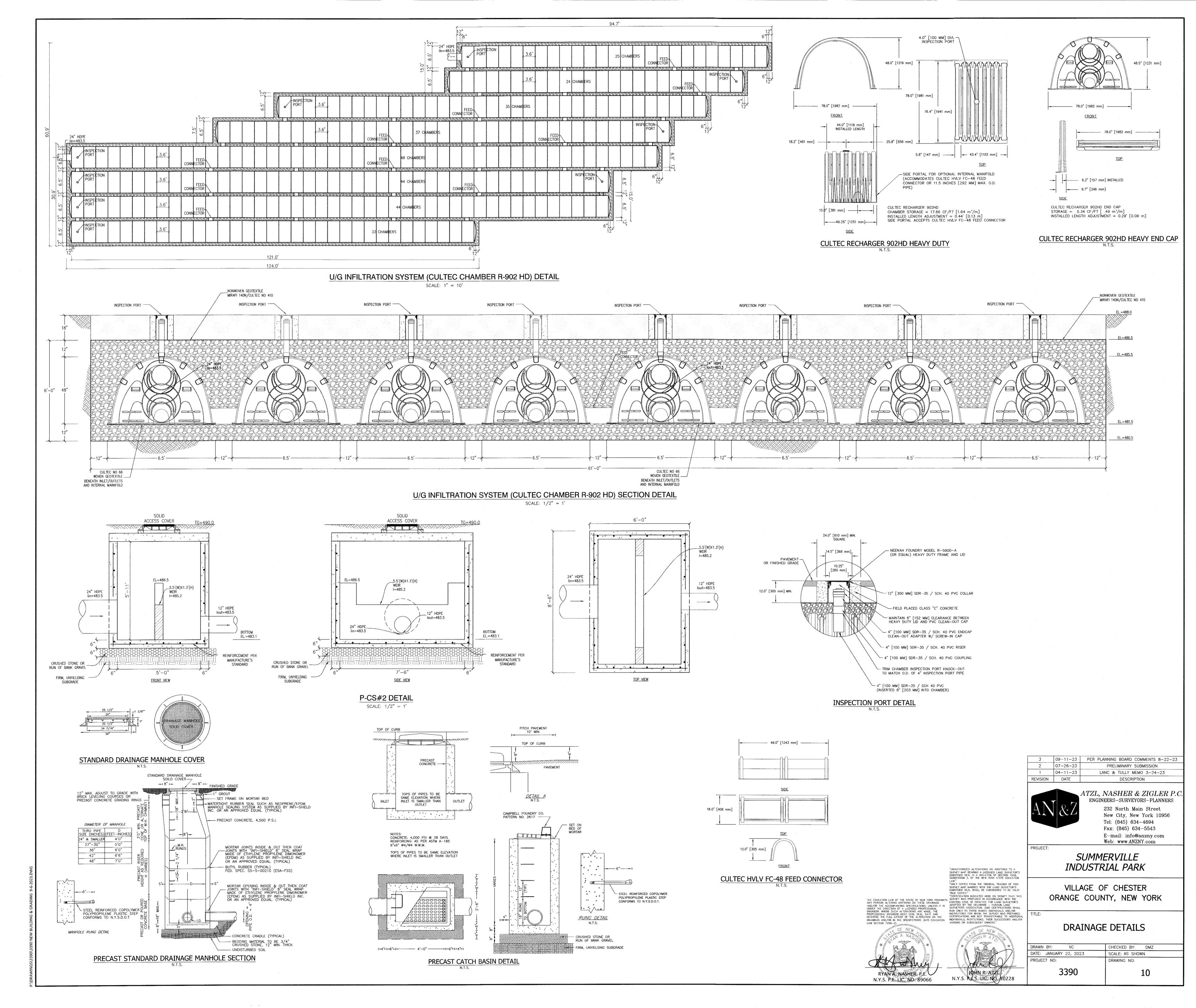


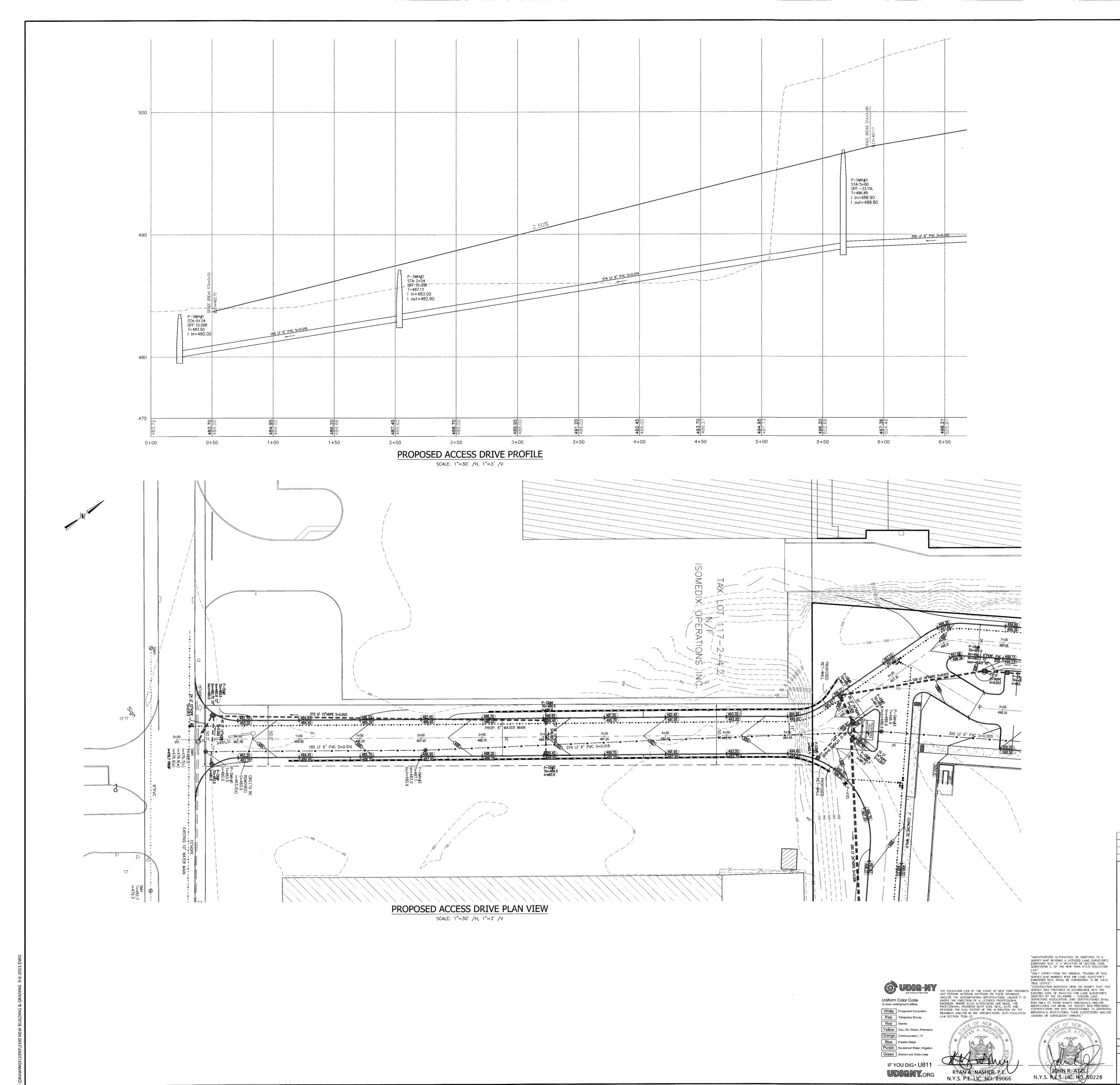












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 09-11-23
 PER PLANNING BOARD COMMENTS 8-22-23

 2
 07-26-23
 PRELIMINARY SUBMISSION

 1
 04-11-23
 LANC & TULLY MEMO 3-24-23

 REVISION
 DATE
 DESCRIPTION



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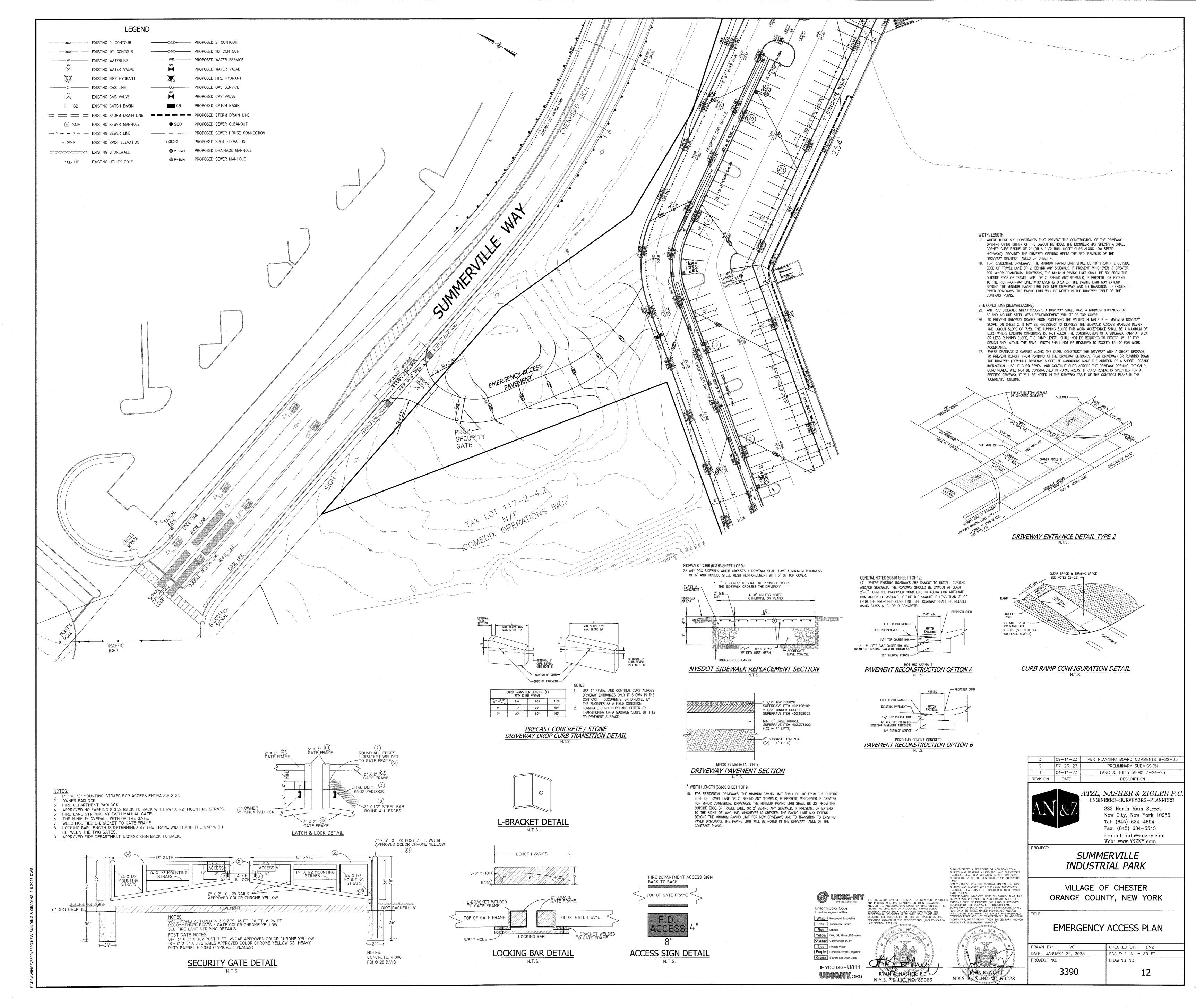
PROJECT:

SUMMERVILLE INDUSTRIAL PARK

VILLAGE OF CHESTER ORANGE COUNTY, NEW YORK

ACCESS DRIVE PLAN & PROFILE

3390	11
PROJECT: NO:	DRAWING NO:
DATE: JANUARY 22, 2023	SCALE: 1 IN. = 30 FT.
DRAWN BY: VC	CHECKED BY: DMZ



GENERAL NOTES.

- 1. THESE SHEETS ARE IN ACCORDANCEW WITH THE AMERICANS WITH 18. THE MINIMUM CLEAR WIDTH OF A CURB RAMP BE 4'-0". THE DISABILITIES ACT (ADA), AND THE REQUIREMENTS OF THE 2011 PROPOSED ACCESSIBILITY GUIDEKINES FOR PEDESTRIAN
- FACILITIES IN THER PUBLIC RIGHT OF WAY (PROWAG). 2. THE DIMENSIONS SHOWN IN THE DETAIL AS MINIMUM AND MAXIMUMS ARE THE LIMITS FOR DESIGN AND FIELD LAYOUT. FRO 20. WHERE THE TERRAINDOES NOT ALLOW CONSTRUCTION OF A CURB WORK ACCEPTANCE VALUES SEE "CRITICAL ELEMENTS FOR THE DESIGN, LAYOUT, AND ACCPETANCE OF PEDESTRAIN FACILITES" ON SHEET 11 OF 12 AND SHEET 12 OF 12. A. THE CONTRACTORS SHALL BE RESPONSIBLE FOR FIELD VERIFYING ALL ELEVATIONS AND DIMENSIONS TO ENSURE THAT THE FINAL LAYOUT OF PEDESTRIAN FACILITIES MEETS ADA REQUIREMENTS. ANY SURVEY WORK NECESSARY TO MEET THESE REQUIREMENTS SHALL BE PAID FOR UNDER ITEM 625.01 -
- SURVEY OPERATIONS. 3. FACILITIES THAT CANNOT BE CONSTRUCTED TO MEET THE DESIGN STANDARDS, DUE TO DESIGN CONSTRAINTS, SHALL BE CONSTRUCTED TO MEET THE STANDARDS TO THE GREATEST EXTENT PRACTICABLE. FEATURES THAT CANNOT MEET THE VALUES FOR WORK ACCEPTANCE SHALL BE JUSTIFIED AS NONSTANDARD PER HIGHWAY DESIGN MANUEL CHAPTER 2. 4. TO CHECK FIELD LAYOUT AND TO VERIFY WORK ACCEPTANCE, ALL
- MEASUREMENTS SHALL BE MADE IN ACCORDANCE WITH THE "NOTES ON INSPECTION METHODS (MEASUREMENT) ON SHEET 11
- 5. JOINTS BETWEEN SIDEWALKS, CURB RAMP, TURNING SPACES AND CHANGES GREATER THAN ? VERTICAL SURFACE DISCONTINUITIES BETWEEN 1" AND 1" SHALL BE BEVELED WITH A SLOPE NOT STEEPER THAN 1:2. THE BEVEL SHALL BE APPLIED ACROSS THE ENTIRE JOUNT. SEE "VERTICAL SURFACE DISCONTINUITIES" DETAIL ON SHEET 2 OF 12.
- 6. SIDEWALKS ARE CONNECTED TO ROADWAYS BY BLENDED TRANSITIONS OR CURB RAMPS. BLENDED TRANSITIONS ARE CONNECTIONS BETWEEN THE SIDEWALK LEVEL AND THE ROADWAY 24. THE BACK SIDE OF A PARALLEL RAMP SHOULD BE GRADED TO A LEVEL THAT HAVE A MAXIMUM GRADE (RUNNING SLOPE) OF 5%. CONNECTIONS WITH A MAXIMUM GRADE (RUNNING SLPOE) GREATER THAN 5% ARE CONSIDERED CURB RAMPS.
- 7. CURB RAMPS AND BLENDED TRANSITIONS MAY REQUIRE THE "DETECTABLE WARNING NOTES" ON THIS SHEET, AND THE DETAILS 25. THE DEPARTMENTT'S PREFERENCE IS TO INSTALL TWO SEPARATE ON SHEET 2 OF 12 FOR DIMENSIONS AND ORIENTATION. 8. GRADE BREAKS WITHIN THE PEDESTRIAN ACCESS ROUTE SHOULD

BE PERPENDICULAR TO THE DIRECTIONS OF TRAVEL AND SHALL

- NOT BE ROUNDED. VERTICAL ALIGNMENT SHALL BE GENERALLY PLANNER. 9. MATERIAL DEPTHS SHOWN ON THESE SHEETS ARE TYPICAL MINIMUM VALUES AND MAY BE DIFFERENT IN THE CONTRACT
- DOCUMENTS. 10. SIDEWALK GRADE (RUNNING SLOPE) SHALL NOT EXCEED 4.5% FOR DESIGN AND LAYOUT OR 5% FOR WORK ACCEPTANCE, EXCEPT WHEN MATCHING INTO EXISTING SIDEWALK OR WHEN THE ADJACENT HIGHWAY GRADE SHALL NOT EXCEED THE HIGHWAY
- 11. THE BROSS SOPE OF PEDESTRATION ACCESS ROUTES SHALL BE 1.5% MAXIMUM FOR DESIGN AND LAYOUT, AND 2% MAXIMUM FOR WORK ACCEPTANCE. THE FOLLOWING EXCEPTIONS ARE ALLOWED: A. WHERE PEDESTRIAN STREET CROSSING ARE PROVIDEDAT 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% MAXIMUM FOR WORK ACCEPTANCE. B. WHERE MIDBLOCK PEDESTRIAN STREET CROSSINGS ARE APPROVIDED, THE CROSS SLOPE OF A PEDESTRIAN ACCESS ROUTE CONTAINED WITHIN A MIDBLOCK STREET CROSSING SHALL
- BE PERMITTED TO EQUAL THE STREET OR HIGHWAY GRADE. 12. THE MINIMUM CLEAR WIDTH FOR PEDESTRIAN ACCESS ROUTES IS 4'-0", EXCLUSIVE OF THE CURB. THE DEPARTMENT'S PREFERRED CLEAR WIDTH IS 5'-0". WHEN WALKWAY WODTHS ARE LESS THAN 5'-0", 5'-0" X 5'-0" PASSING SPACES (SHOWN IN DETAIL A OR B THIS SHEET), OR A FEATURE OF EQUAL OR GREATER DIMENSIONS THAT MEETS THE SLOPE AND SURFACE CRITERIA, SHALL BE PROVIDED AT A MXIMUM INTERNAL OF 200'. EXISTING DRIVEWAYS AND STREET CROSSINGS MAY SERVE AS PASSING SPACES, PROVIDED THEY MEET SLOPE AND SURFACE
- 13. THE BUFFER ZONE IS A PHYSICAL DISTANCE SPERARATING THE PEDESTRIAN ACCESS ROUTE FROM THE VEHICLE TRAVELED WAY. THE BUFFER ZONE MAY BE PLANTED OR PAVED. WHERE THE BUFFER ZONE WIDTH, EXCLUSIVE OF CURB, IS LESS THAN 3'-0", THE SURFACE SHOULD BE PAVED OR CONSTRUCTED WITH OR CONSTRUCTED WITH HARDSCAPE MATERIALS.

REQUIREMENTS FOR A PEDESTRIAN ACCESS ROUTE.

- 14. THE MAXIMUM RECOMMENDED CROSS SLOPE OF A TURF BUFFER ZONE OR SLOPE TRANSITION BEHIND SIDEWALK IS 25%. BUFFER ZONES WITH A CROSS SLOPE GREATER THAN 25% SHOULD BE PAVED, PLANTED OR CONSTRUCTED WITH HARDSCAPE MATERIALS. 15. WHEN CROSSING DRIVEWAYS, THE WORK SHALL BE IN
- CONFORMANCE WITH STANDARD SHEET 608-03. 16. FOR PEDESTRIAN SIGNALS AND PEDEDSTRIAN PUSH BUTTONS, REFER TO SHEET 12 TO 12 AND STANDARD SHEET 680-10 FOR 32. WITH THE EXCEPTION OF THE DETECTABLE WARNING SURFACE
- 17. WHERE EXISTING ROADWAYS ARE SAWCUT TO INSTALL CURBING AND/OR SIDEWALK, THE ROADWAY SHOULD BE SAWCUT AT LEAST 2'-0" FROM THE PROPOSED CURB LINE TO ALLOW FOR ADEQUATE COMPACTION OF ASPHALT. IF THE SAWCUT IS LESS THAN 2'-0" FROM THE PROPOSED CURB LINE TO ALLOW FOR ADEQUATE COMPACTION OF ASPHALT. IF THE SAWCUT IS LESS THAN 2'-0" FROM THE PROPOSED CURB LINE, THE ROADWAY SHALL BE REBUILT USING CLASS A, C, OR D CONRETE. SEE

DETAILS ON SHEET 9 OF 12.

CURB RAMP NOTES:

- DEPARTMENT'S PERFERRED CLEAR WIDTH ID 5'-0", 19. THE MAXIMUM GRADE [RUNNING SLOPE] FOR DESIGN AND LAYOUT
- OF A CURB RAMP SHALL BE 7.5%. THE GRADE FOR WORK ACCEPTANCE SHALL BE A MAXIMUM OF 8.3%. RAMP WITH A GRADE (RUNNING SLOPE) OF 8.3% OR LESS WITHIN 36. ON SLOPES OF 5% OR GREATER, THE ROWS OF DOMES SHALL
- 15'-0" FOR WORK ACCEPTANCE. 21. THE CROSS SLOPE OF THE CURB RAMP SHALL BE AS FAST AS POSSIBLE AND STILL PROVIDE POSITIVE DRAINAGE. THE CROSS SLOPE OF A CURB RAMP SHALL BE 1.5% MAXIMUM FOR DESIGN AND LAYOUT, AND 2% MANIMUM FOR WORK ACCEPTANCE. THE FOLLOWING EXCEPTIONS ARE ALLOWED:
- WHERE PEDESTRIAN STREET CROSSINGS ARE PROVIDED AT INTERSECTIONS WITHOUT YIELD - OR STOP-CONTROL, WHERE THERE IS ANY TRAFFIC SIGNAL WITHOUT A FLASHING RED, OR AT MISDBLOCK CROSSING, THE CROSS SLOPE OF THE CURB RAMP SHALL BE PERMITTED TO EUAL THE STREET OR HIGHWAY GRADE. 22. WHERE THE EXISTING ROADWAY GRADE EXCEEDS THE MAXIMUM ALLOWABLE CROSS SLOPE FOR A CURB RAMP, AND CANNOT BE CORRECTED WITHIN THE SCOPE OF THE PROJECT, THE RAMP SHOULD BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE "CURB RAMP CROSS SLOPE TRANSITION" DETAIL ON SHEET 8 OF 12. THE RAMP MAY NEED TO BE JUSTIFIED AS A
- NONSTANDARD FEATURE. SEE NOTE 3 ON THE SHEET. ROADWAYS SHALL BE FLUSH AND FREE FROM ABRUPT VERTICAL 23. RAMP SIDE OPTIONS ARE DETAILED ON SHEET 3 OF 12. WHERE A PEDESTRIAN CIRCULATION PATH CROSSES THE CURB RAMP. FLARED SIDES SHALL BE INSTALLED WITH A MAXIMUM SLOPE OF 9.5% FOR DESIGN AND LAYOUT, AND 10% MAXIMUM FOR WORK ACCEPTANCE. A PEDESTRIAN CIRCULATION PATH IS ASSUMED TO CROSS THE CURB RAMP WHEN AREA ADJACENT TO THE RAMP IS PAVED AND FREE OF VERTICAL OBSTRUCTION THAT WOULD PREVENT PEDESTRIAN CIRCULATION PATH/
 - MAXIMUM SLOPE OF 255 TO MATCH EXISTING TERRIAN, UNLESS OTHERWISE SHOWN IN THE CONTRACT DOCUMENTS, WHERE GRADING IS NOT FEASIBLE DUE TO LIMITED ROW OR PHYSICAL CONSTRAINTS, A BACK CURB MAY BE INSTALLED. SEE DETAIL ON SHEET 3 OF 12 AND SHEET 9 OF 12.
 - CURB RAMPS AT A STREET CORNER THAT SERVES TWO SEPERATE PEDESTRIAN CROSSINGS, WITH EACH RAMP ALIGNED TO THE CROSSING THAT IT SERVES. WHERE EXISTING PHYSICAL CONSTRAINTS PREVENT SEPARATE RAMPS, A SINGLE CURB RAMP (I.E., A DIAGONAL CURB RAMP) IS PERMITTED TO SERVE BOTH PEDESTRIAN CORSSINGS.

TURNING SPACE AND CLEAR SPACE NOTE:

- 26. 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.
- 27. WHERE THERE ARE NO VERTICAL CONSTRAINTS AT THE BACK OF SIDEWALK, (E.G., BERTICAL CURBS, 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 IN THE DIRECTION OF THE RAMP RUN.
- 28. TURNING SPACES SHALL NOT BE DESIGNED WITH A SLOPE GREATER THAN 1.5% IN ANY DIRECTION, WHILE PROVIDING POSITIVE DRAINAGE. THE MAXIMUM SLOPE FOR WORK ACCEPTANCE IS 2.0%.
- 29. BELOW THE BOTTOM GRADE BREAK OF A CURB RAMP, 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 CURBS.

DETECTABLE WARNING NOTES.

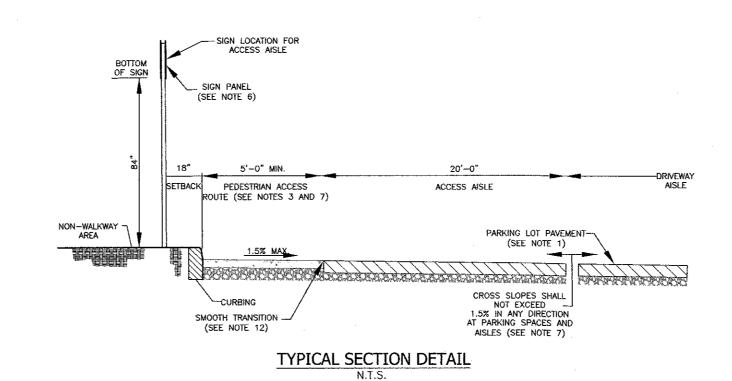
- 30. DETECABLE WARNING SURFACES (DWS) SHALL BE PROVIDED AT THE FOLLOWING LOCATIONS ON PEDESTRIAN ACCESS ROUTES:
- A. CURB RAMPS AND BLENDED TRANSITIONS AT PEDESTRIAN STREET CROSSINGS. B. PEDESTRIAN REFUGE ISLANDS (WHERE THE LENGTH OF THE PEDESTRIAN ACCESS ROUTE ACROSS THE REFUGE ISLAND IS
- GREATER THAN OR EQUAL TO 6') C. PEDESTRIAN AT-GRADE RAIL CROSSINGS NOT LOCATED WITHIN A STREET OR HIGHWAY.
- 31. DETECTABLE WARNING SURFACES SHALL BE PROVIDED WHERE THE PEDESTRAIN ACCESS ROUTE CROSSES DRIVEWAYS WITH SIGNAL. YEILD OR STOP CONTROL, DETECTABLE WARNING SURFACES SHALL NOT BE PROVIDED AT CROSSINGS OF UNCONTROLLED
- TRUNCATED DOME DETAILS ON SHEETS 2 OF 12, DETECTABLE WARNING DOMES ARE NOT DEPICTED TO SCALE ON THESE
- 33. DETECTABLE WARNING FIELDS SHALL EXTEND 24" MINIMUM IN THE DIRECTION OF PEDESTRIAN TRAVEL ACROSS THE FULL WIDTH OF CURB RAMP OR FLUSH SURFACE, EXCLUDING ANY FLARED
- 34. SOME DETECTABLE WARNING PRODUCTS REQUIRE A CONCRETE BORDER FOR PROPER INSTALLATION, IF REQUIRED, THE BORDER SHALL NOT EXCEED 2". WHERE THE BACK OF THE CURB EDGE IS TOOLED TP PROVIDE A RADIUS, THE BORDER DIMENSION SHALL

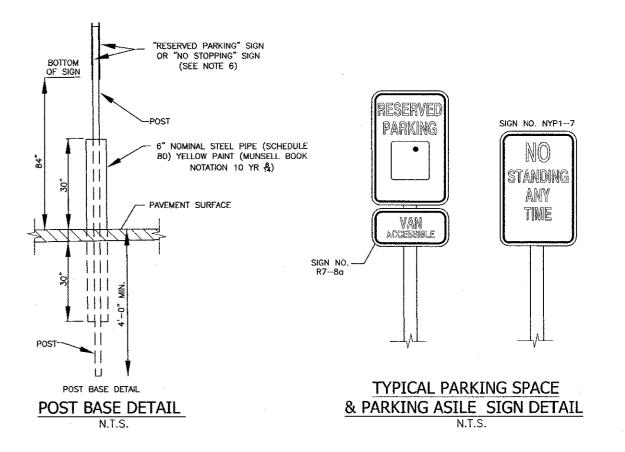
- BE MEASURED FROM THE INSIDE EDGER OF THE CURB RADIUS. BORDERS CANNOT BE INCLUDED AS PART OF THE 24" MINIMUM
- DIMENSION DESCRIBED IN NOTE 33. 35. WHERE CURB IS NOT USED, THE EDGE OF PAVEMENT SHALL BE SUBSTITUTED FOR BACK OF CURB FOR PLACMENT OF DETECTABLE WARNINGS.
- BE ALIGNED TO BE PERPENDICULAR OR RADIAL TO THE LOWER GRADE BREAK ON THE RAMP RUN. WHERE DOMES ARE ARRAYED RADIALLY, THEY MAY DIFFER IN DIAMETER AND CENTER-TO-CENTER SPACING WITHIN THE RANGES SPECIFIED ON SHEET 2 OF 12. DOME ALIGNMENT THAT IS PERPENDICULAR OR

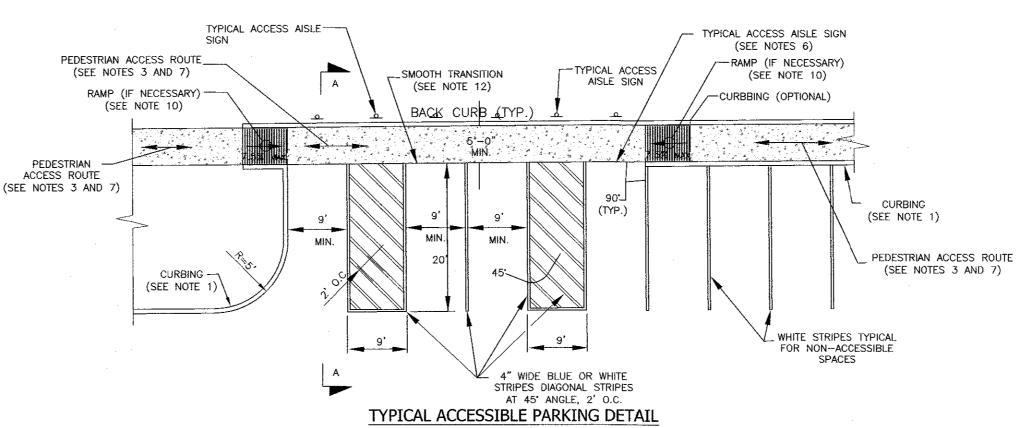
RADIAL TO THE LOWER GRADE BREAK IS NOT REQUIRED ON

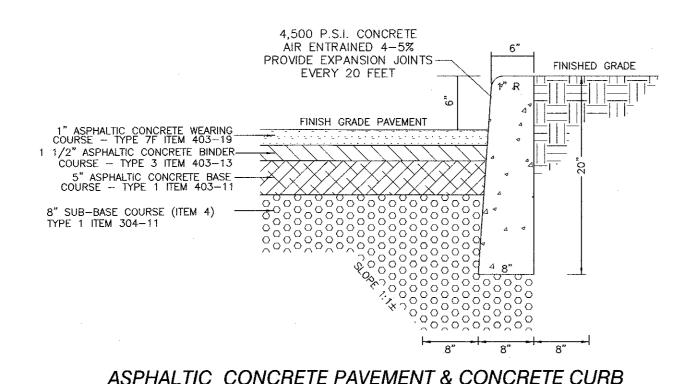
SLOPES OF LESS THAN 5%. 37. THE DETECTABLE WARNING FIELD SHALL BE THE COLOR SPECIFIED IN THE CONTRACT DOCUMENTS OR MEET THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS. DETECTABLE WARNING SURFACES SHALL CONTRAST VISUALLY WITH ADJACENT GUTTER, STREET OR HIGHWAY, OR PEDESTRIAN ACCESS ROUTE SURFACE, EITHER

LIGHT-ON-DARK OR DARK-ON-LIGHT.

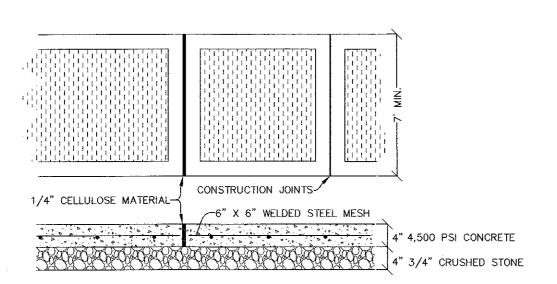








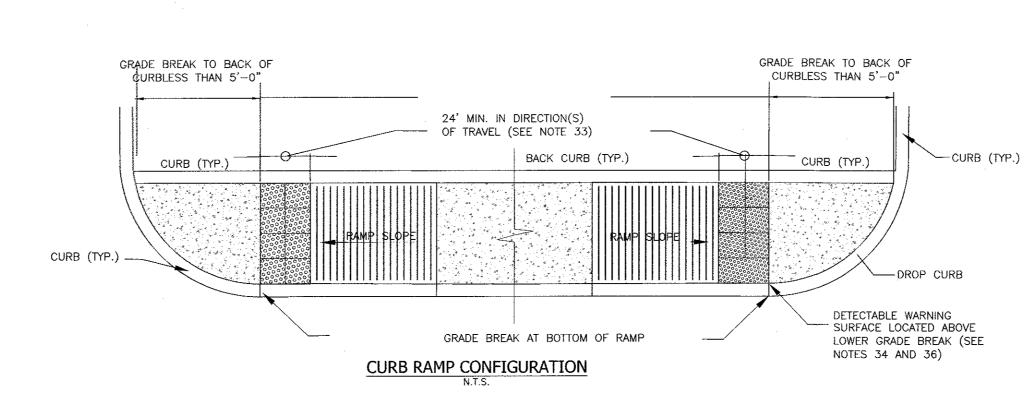
DRIVEWAYS.

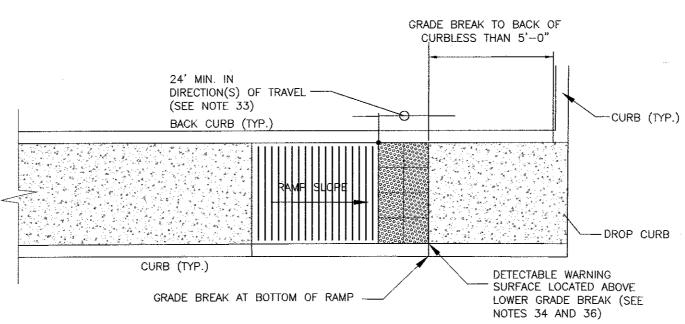


1. CONSTRUCTION JOINTS HAVING A 1/4 INCH RADIUS SHALL BE PLACED AT 4 FEET INTERVALS. 2. INSTALL EXPANSION JOINTS OF 1/4 INCH CELLULOSE MATERIAL OR FOLIAL AT 20 FFFT INTERVALS. 3. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4.500 PSI AT 28 DAYS. 4. CONCRETE SHALL BE AIR ENTRAINED 6% PLUS or MINUS 1%. 5. SIDEWALK REINFORCEMENT SHALL CONSIST OF #6 GUAGE 6" X 6"

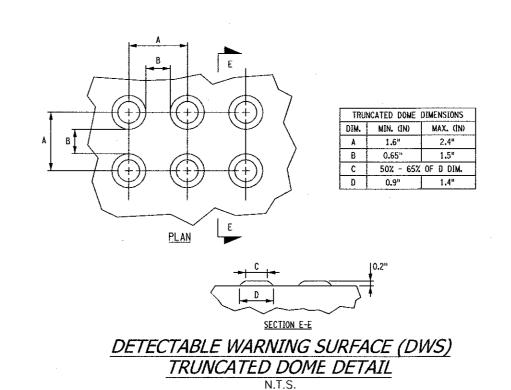
CONCRETE SIDEWALK

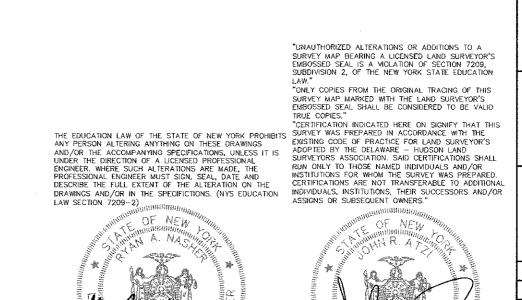
STEEL MESH PLACED 2 INCHES FROM THE BOTTOM OF THE





RAMP BACK BACK CURB DETAIL





N.Y.S. P.E. LIC NO. 89066

N.Y.S. P.J.S. 40 NO 50228

09-11-23 PER PLANNING BOARD COMMENTS 8-22-23 07-26-23 PRELIMINARY SUBMISSION 04-11-23 LANC & TULLY MEMO 3-24-23 REVISION DATE DESCRIPTION

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SUMMERVILLE INDUSTRIAL PARK

PROJECT:

VILLAGE OF CHESTER ORANGE COUNTY, NEW YORK

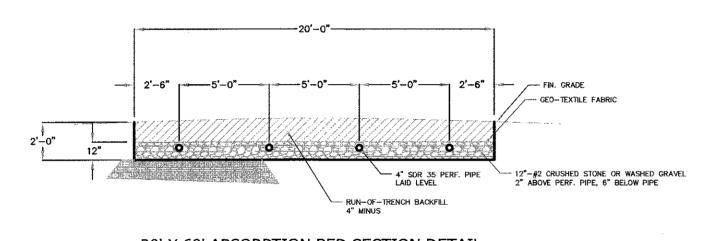
Web: www.ANZNY.com

IMPROVEMENT DETAILS

DRAWN BY: CHECKED BY: DMZ DATE: JANUARY 22, 2023 SCALE: N.T.S. PROJECT NO: DRAWING NO: 3390

SIDEWALK SLAB. NTS





20' X 60' ABSORPTION BED SECTION DETAIL SCALE: NONE

GENERAL NOTES: 1. FINAL GRADING IS INTENDED TO INSURE THAT NO SURFACE WATER WILL COLLECT ON THE COMPLETED SANITARY SYSTEM. THE CONTRACTOR SHALL RESTORE GROUND SURFACES TO MATCH OR BLEND INTO THE EXISTING GROUND SURFACES. ALL DISTURBED SURFACES SHALL BE RE-SEEDED AND MULCHED IMMEDIATELY AFTER FINAL GRADING. 2. THE CONTRACTOR SHALL RAKE SIDES AND BOTTOM OF THE ABSORPTION TRENCH EXCAVATION BEFORE PLACING THE AGGREGATE. BEDS SHALL NOT BE INSTALLED IN WET

3. ALL FIELD PIPING SHALL BE SDR 35 PVC.

4. NO VEHICLE PARKING OR CONSTRUCTION EQUIPMENT SHALL BE PERMITTED ON THE COMPLETED SANITARY SYSTEM EXCEPT DURING THE ACTUAL CONSTRUCTION OF THE SYSTEM. THERE SHALL BE NO SWIMMING POOLS, ACCESSORY BUILDINGS, PAVED AREAS, SHEDS, ETC. LOCATED ABOVE THE SEWAGE DISPOSAL SYSTEM. 5. THE END OF ALL DISTRIBUTION PIPES MUST BE CAPPED.

6. MAINTAIN A 2% MINIMUM PIPE SLOPE BETWEEN THE SEPTIC TANK AND BUILDING. 7. ABSORPTION BED EXCAVATION SHALL BE INSTALLED TO BE PARALLEL TO GROUND 8. ROOF AND FOOTING DRAINS SHALL NOT DISCHARGE TO OR TOWARDS THE SEWAGE

9. SURFACE WATER DIVERSION SWALE SHALL BE CONSTRUCTED AROUND THE SEWAGE DISPOSAL SYSTEM TO DIVERT SURFACE WATER. 10. SEWAGE DISPOSAL SYSTEMS SHALL NOT BE INSTALLED IN AREAS WITH GREATER THAN 15% SLOPE.

11. THIS OFFICE CANNOT BE RESPONSIBLE FOR THE CONSTRUCTION OF A SEWAGE DISPOSAL SYSTEM UNLESS IT IS INVOLVED IN THE CONSTRUCTION SUPERVISION OF THE SAME. OUR DESIGN MEETS THE STATED REQUIREMENTS AND RESPECTIVE CODES FOR OBTAINING APPROVAL FROM THE APPROPRIATE REVIEWING AUTHORITIES. THE SEWAGE DISPOSAL SYSTEMS SHOWN ON THIS PLAN HAVE BEEN DESIGNED TO CURRENT NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION STANDARDS.

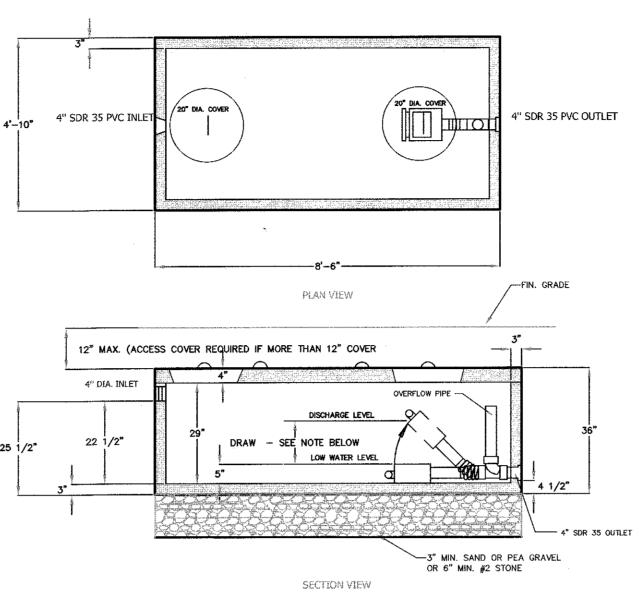
12. A NEW YORK STATE LICENSED PROFESSIONAL ENGINEER SHALL INSPECT THE SANITARY FACILITIES AT THE TIME OF CONSTRUCTION. PRIOR TO OCCUPANCY. THE ENGINEER SHALL CERTIFY TO THE LOCAL CODE ENFORCEMENT OFFICER THAT THE FACILITIES ARE INSTALLED IN ACCORDANCE WITH THE APPROVED PLANS AND THAT ANY SEPTIC TANK JOINTS ARE SEALED AND TESTED FOR WATERTIGHTNESS.

13. HEAVY EQUIPMENT SHALL BE KEPT OFF THE AREA OF THE ABSORPTION FIELDS EXCEPT DURING THE ACTUAL CONSTRUCTION. THERE SHALL BE NO UNNECESSARY MOVEMENT OF CONSTRUCTION EQUIPMENT IN THE ABSORPTION FIELD AREA BEFORE, DURING, OR AFTER CONSTRUCTION. EXTREME CARE MUST BE TAKEN DURING THE ACTUAL CONSTRUCTION SO AS TO AVOID ANY UNDUE COMPACTION THAT COULD RESULT IN A CHANGE OF THE ABSORPTION CAPACITY OF THE SOIL ON WHICH THE DESIGN WAS BASED. 14. THE ABSORPTION SYSTEM LOCATION, OR THE SEWAGE DISPOSAL SYSTEM DESIGN, ARE NOT TO BE CHANGED. 15. THE PROPOSED SEWAGE DISPOSAL SHOWN HEREON IS DESIGNED IN ACCORDANCE WITH THE STANDARDS AND REQUIREMENTS ESTABLISHED BY THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION FOR INTERMEDIATE SIZED WASTEWATER TREATMENT SYSTEMS. THE DESIGN IS BASED UPON ACTUAL SOIL AND SITE CONDITIONS FOUND UPON THE LOT AT THE DESIGN LOCATION AT THE TIME OF THE DESIGN.

16. NO DRIVEWAYS, OR OTHER STRUCTURES THAT MAY COMPACT THE SOILS SHALL BE LOCATED OVER ANY PORTION OF THE SEWAGE DISPOSAL SYSTEM ABSORPTION FIELD. 17. THERE MUST BE AN UNINTERRUPTED POSITIVE SLOPE FROM THE SEPTIC TANK TO THE BUILDING ALLOWING SEPTIC GASSES TO DISCHARGE THROUGH THE STACK VENT.

18. THERE SHALL BE NO RE-GRADING, EXCEPT AS SHOWN ON THE APPROVED PLANS, IN THE AREA OF THE ABSORPTION FIELDS.

5. FOR DESIGN PURPOSES USE 3 - 1,300 SQ. FT. ABSORPTION BEDS FOR A TOTAL OF 3,900 SQ. FT. 6. ABSORPTION BEDS WILL BE DOSED BY A SINGLE DOSING SIPHON. Dosing requirements = 75% - 85% of the absorption bed pipe volume. Each bed has a volume of 240 lineal feet of perforated pipe. 240 L.F. X 0.653 GALLON PER L.F. = 157 GALLONS PIPE VOLUME 157 GALLONS X 0.75 = 117.75 GALLONS PER DOSE, OR 353.25 GALLS FOR 3 BEDS 157 GALLONS X 0.85 = 133.45 GALS., PER DOSE, OR 400.35 GALLONS FOR 3 BEDS FOR DESIGN AND INSTALLATION PURPOSES THE DOSING VOLUME FOR THE THREE BEDS WILL BE SET AT 360 GALLONS BY THE SUPPLIER.



DOSING CHAMBER DETAIL

SCALE: NONE

SPECIFICATIONS:

1. CONCRETE MIN. STRENGTH: 4,000 psi AT 28 DAYS

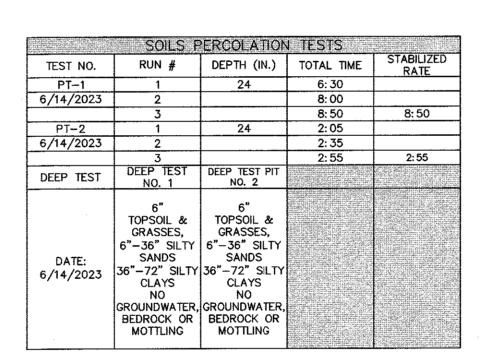
2. REINFORCEMENT: #4 REBAR, 6X6X10 GA. WWM 3. AIR ENTRAINMENT: 5%

4. CONSTRUCTION JOINT: BUTYL RUBBER SEALANT

5. PIPE CONNECTION: POLYLOK SEAL & SDR 35 PVC COUPLER.

7. LOAD RATING: 300 psf

8. A DOSING VOLUME OF 360 GALLONS TO BE SET BY THE SUPPLIER. PRECAST SIPHON CHAMBER MODEL SC 5X9



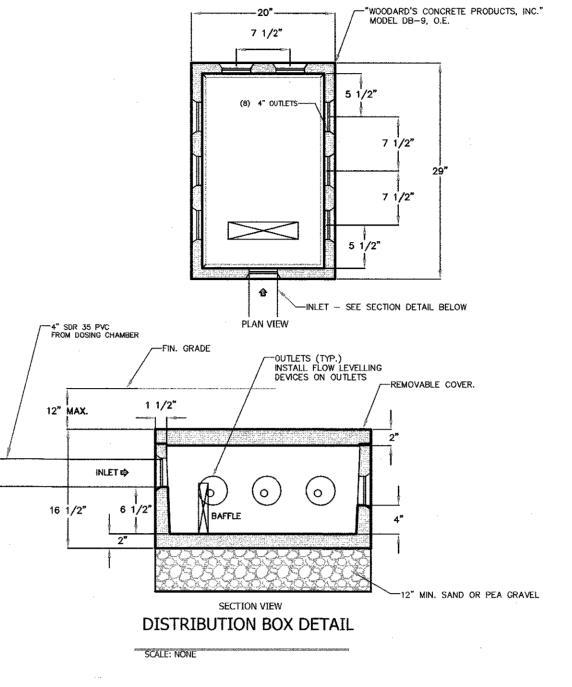
NOTE: SOILS TESTS CONDUCTED BY JOSEPH GOTTLIEB PE PC ON THE DATE NOTED PERCOLATION TESTS TIMED WITH A STOP WATCH

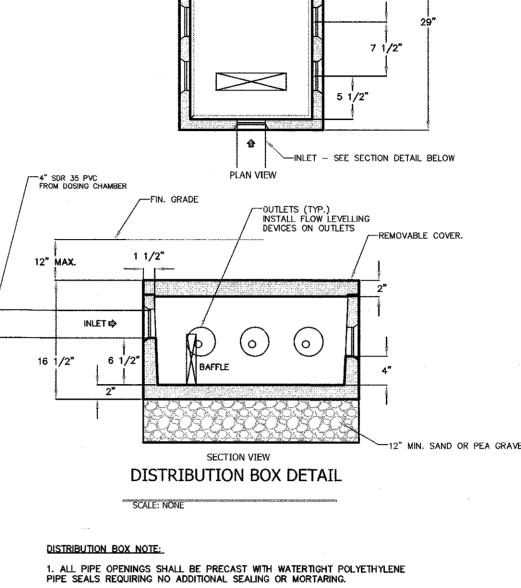
SEWAGE DISPOSAL SYSTEM DESIGN CRITERIA

SEWAGE DISPOSAL SYSTEM DESIGN SHOWN ON THE PLANS IS BASED UPON THE FOLLOWING:

1. ESTIMATED AVERAGE DAILY FLOW = 5,000 GPD

- FACILITY WILL UTILIZE GREY-WATER RECYCLING RESULTING IN A REDUCTION OF 50% IN SEWAGE FLOWS DISCHARGING TO THE ABSORPTION SYSTEM. DESIGN FLOW = 2,500 GPD.
- SOILS TESTS APPLICATION RATE FOR ABSORPTION BEDS = 0.70 GPD/SQ. FT., NYSDEC REQUIRES THAT THE APPLICATION RATE BE NO MORE THAN 70% OF THE APPLICATION RATE OBTAINED DURING TESTING.
- 4. 2,500 GPD / 0.675 GPD/SQ. FT. = 3,703.70 SQ. FT.





2. ALL UNUSED OUTLETS SHALL REMAIN PLUGGED.

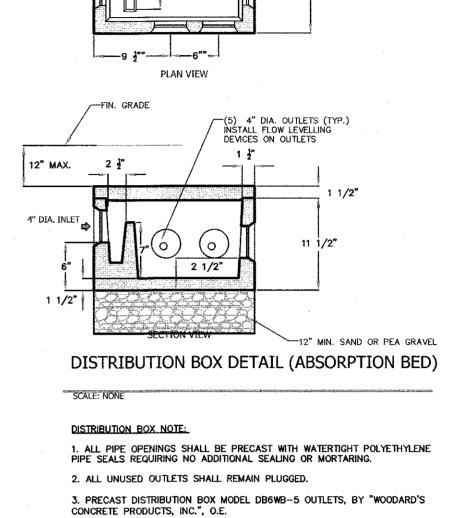
5. ALL OUTLETS SHALL BE SET AT THE SAME ELEVATION.

LATERALS AT THE TIME OF EXPANSION.

3. PRECAST DISTRIBUTION BOX MODEL DB-9, BY "WOODARD'S CONCRETE

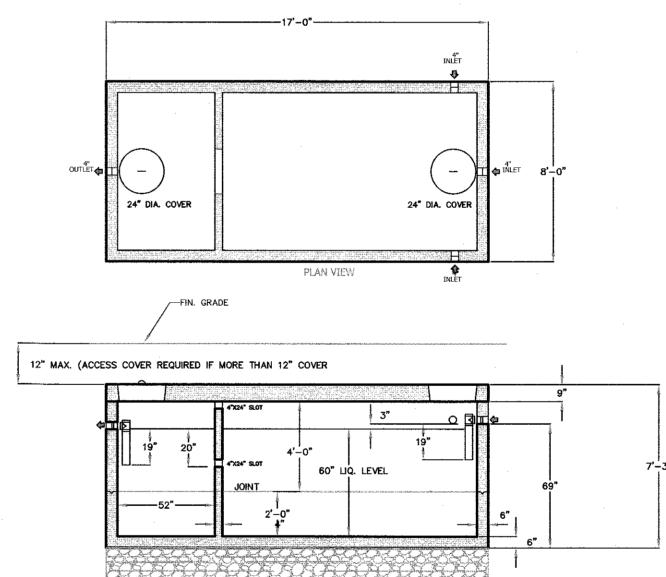
4. A BAFFLE IS REQUIRED AND SHALL BE EITHER A POLYETHYLENE AS SUPPLIED BY THE MANUFACTURER, OR A CONCRETE BAFFLE SET BY THE CONTRACTOR.

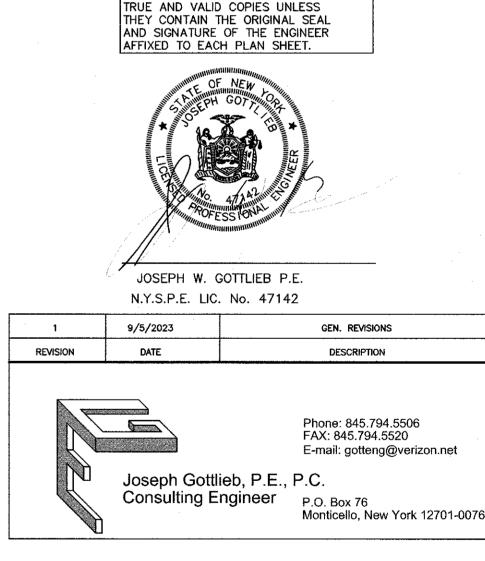
6. ALL DISTRIBUTION BOX PIPING SHALL BE INSTALLED BY THE CONTRACTOR IN SUCH A MANNER AS TO ALLOW FOR FUTURE EXPANSION OF THE SYSTEM PIPING WITHOUT THE NEED FOR RE-PIPING OR DISTURBANCE TO THE EXISTING



4. ALL OUTLETS SHALL BE SET AT THE SAME ELEVATION.

5. ALL DISTRIBUTION BOX PIPING SHALL BE INSTALLED BY THE CONTRACTOR IN SUCH A MANNER AS TO ALLOW FOR FUTURE EXPANSION OF THE SYSTEM PIPING WITHOUT THE NEED FOR RE-PIPING OR DISTURBANCE TO THE EXISTING LATERALS AT THE TIME OF EXPANSION.





PROJECT:

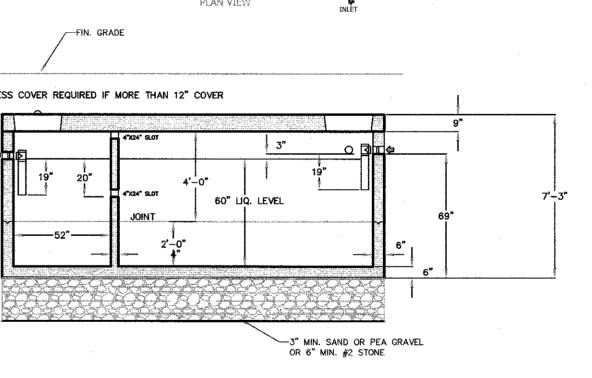
"UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A SURVEY MAP BEARING A LICENSED LAND SURVEYOR'S EMBOSSED SEAL IS A VIOLATION OF SECTION 7209, SUBDIVISION 2, OF THE NEW YORK STATE EDUCATION

LAW."
"ONLY COPIES FROM THE ORIGINAL TRACING OF THIS
SURVEY MAP MARKED WITH THE LAND SURVEYOR'S
EMBOSSED SEAL SHALL BE CONSIDERED TO BE VALID

UNAUTHORIZED ALTERATION OR ADDITION TO THIS PLAN IS A VIOLATION OF THE

NEW YORK STATE EDUCATION LAW.

PLANS SHALL NOT BE CONSIDERED





STALE: NONE SPECIFICATIONS:

1. CONCRETE MIN. STRENGTH: 4,000 psi AT 28 DAYS

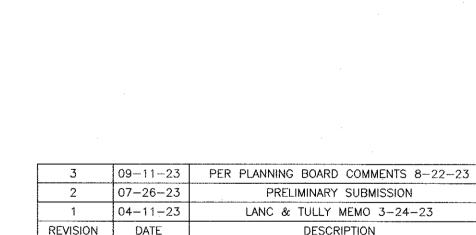
2. REINFORCEMENT: #4 REBAR, 6X6X10 GA. WWM 3. AIR ENTRAINMENT: 5%

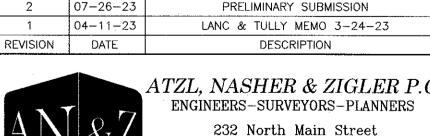
5. PIPE CONNECTION: POLYLOK SEAL & SDR 35 PVC COUPLER.

6. WEIGHTI: 45,000 LBS. 7. LOAD RATING: HS20-44 + 30% / ASTM C857

4. CONSTRUCTION JOINT: BUTYL RUBBER SEALANT PRECAST CONCRETE HEAVY DUTY SEPTIC TANK - MODEL ST-4000 H20

N.Y.S. P.E. LIC NO. 89066





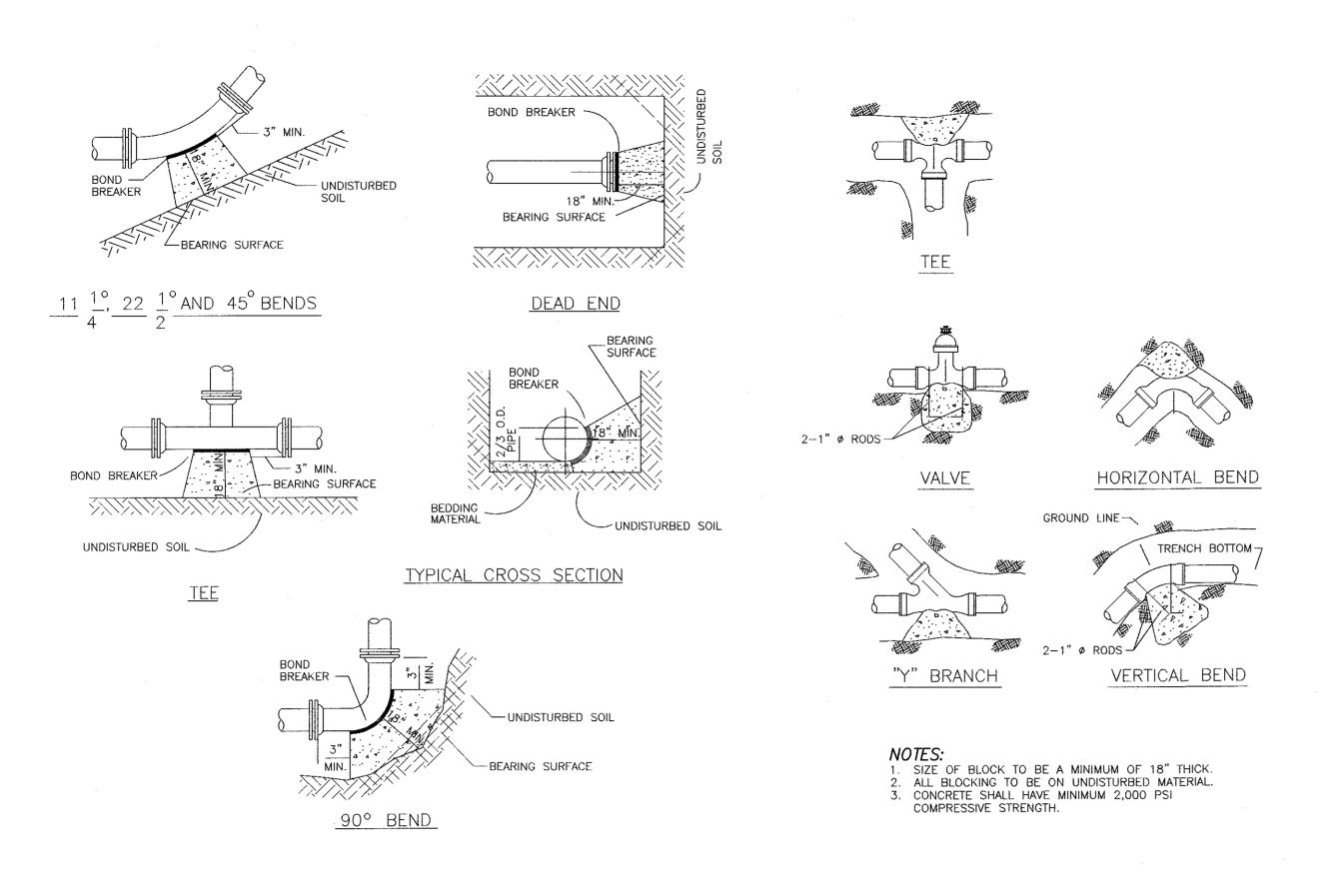
ENGINEERS-SURVEYORS-PLANNERS 232 North Main Street New City, New York 10956 Tel: (845) 634-4694 Fax: (845) 634-5543 E-mail: info@anzny.com

Web: www.ANZNY.com SUMMERVILLE INDUSTRIAL PARK

VILLAGE OF CHESTER ORANGE COUNTY, NEW YORK

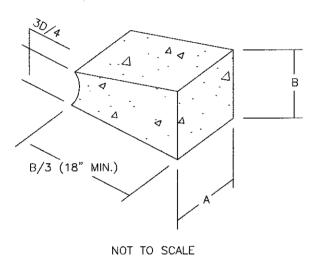
THE EDUCATION LAW OF THE STATE OF NEW YORK PROHIBITS ANY PERSON ALTERING ANYTHING ON THESE DRAWINGS AND/OR THE ACCOMPANYING SPECIFICATIONS, UNLESS IT IS UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, WHERE SUCH ALTERATIONS ARE MADE, THE	EXISTING CODE OF PRACTICE FOR LAND SURVEYOR'S ADOPTED BY THE DELAWARE — HUDSON LAND SURVEYORS ASSOCIATION. SAID CERTIFICATIONS SHALL RUN ONLY TO THOSE NAMED INDIVIDUALS AND/OR	0		NTY, NEW YORK
PROFESSIONAL ENGINEER MUST SIGN, SEAL, DATE AND DESCRIBE THE FULL EXTENT OF THE ALTERATION ON THE DRAWINGS AND/OR IN THE SPECIFICTIONS. (NYS EDUCATION LAW SECTION 7209-2) LAW SECTION 7209-2) OF NEW CONTROL OF THE ALTERATION OF NEW CONTROL OF NE	INSTITUTIONS FOR WHOM THE SURVEY WAS PRÉPARED. CERTIFICATIONS ARE NOT TRANSFERABLE TO ADDITIONAL INDIVIDUALS, INSTITUTIONS, THEIR SUCCESSORS AND/OR ASSIGNS OR SUBSEQUENT OWNERS." OF NEW THE CONTROL OF THE PROPERTY OF THE			TION DETAILS POSAL SYSTEM
		DRAWN BY:	VC ·	CHECKED BY: DMZ
		DATE: LANGI	IARY 22 2023	SCALE, NITS

3390	14	
OJECT NO:	DRAWING NO:	
TE: JANUARY 22, 2023	SCALE: N.T.S.	
AWN BY: VC	CHECKED BY: DMZ	



MINIMUM DIMENSIONS FOR THRUST BLOCKS									
TEES &	PLUGS	90.	BEND	45' BENDS	& WYES	REDUCERS &	22.5° BENDS	11.25	BENDS
Α	В	Α	В	Α	В	Α	В	Α	В
2'-0"	1'-11"	2'-5"	2'-2"	1'-10"	1'-7"	1'-9"	0'-10"	1'-0"	0'-6"
2'-8"	2'-6"	3'-2"	3'-0"	2'-5"	2'-1"	1'-9"	1'-6"	1'0"	1'-0"
3'-4"	3'-3"	4'-0"	3'-10"	3'-0"	2'-9"	2'-2"	1'-11"	1'-6"	1-'0'
4'-0"	3'-10"	4'-8"	4'-8"	3'-8"	3'-3"	2'-7"	2'-3"	2'-0"	1'-0'
5'-5"	3'-10"	6'-6"	4'-10"	4'-9"	3'-5"	3'-5"	2'-5"	2'-0"	1'-6'
	A 2'-0" 2'-8" 3'-4" 4'-0"	TEES & PLUGS A B 2'-0" 1'-11" 2'-8" 2'-6" 3'-4" 3'-3" 4'-0" 3'-10"	TEES & PLUGS 90° A B A 2'-0" 1'-11" 2'-5" 2'-8" 2'-6" 3'-2" 3'-4" 3'-3" 4'-0" 4'-0" 3'-10" 4'-8"	TEES & PLUGS 90° BEND A B A B 2'-0" 1'-11" 2'-5" 2'-2" 2'-8" 2'-6" 3'-2" 3'-0" 3'-4" 3'-3" 4'-0" 3'-10" 4'-0" 3'-10" 4'-8" 4'-8"	TEES & PLUGS 90° BEND 45° BENDS A B A B A 2'-0" 1'-11" 2'-5" 2'-2" 1'-10" 2'-8" 2'-6" 3'-2" 3'-0" 2'-5" 3'-4" 3'-3" 4'-0" 3'-10" 3'-0" 4'-0" 3'-10" 4'-8" 4'-8" 3'-8"	TEES & PLUGS 90° BEND 45° BENDS & WYES A B A B 2'-0" 1'-11" 2'-5" 2'-2" 1'-10" 1'-7" 2'-8" 2'-6" 3'-2" 3'-0" 2'-5" 2'-1" 3'-4" 3'-3" 4'-0" 3'-10" 3'-0" 2'-9" 4'-0" 3'-10" 4'-8" 3'-8" 3'-3"	TEES & PLUGS 90° BEND 45° BENDS & WYES REDUCERS & A B A B A 2'-0" 1'-11" 2'-5" 2'-2" 1'-10" 1'-7" 1'-9" 2'-8" 2'-6" 3'-2" 3'-0" 2'-5" 2'-1" 1'-9" 3'-4" 3'-3" 4'-0" 3'-10" 3'-0" 2'-9" 2'-2" 4'-0" 3'-10" 4'-8" 3'-8" 3'-3" 2'-7"	TEES & PLUGS 90° BEND 45° BENDS & WYES REDUCERS & 22.5° BENDS A B A B A B A B 2'-0" 1'-11" 2'-5" 2'-2" 1'-10" 1'-7" 1'-9" 0'-10" 2'-8" 2'-6" 3'-2" 3'-0" 2'-5" 2'-1" 1'-9" 1'-6" 3'-4" 3'-3" 4'-0" 3'-10" 3'-0" 2'-9" 2'-2" 1'-11" 4'-0" 3'-10" 4'-8" 3'-8" 3'-3" 2'-7" 2'-3"	TEES & PLUGS 90° BEND 45° BENDS & WYES REDUCERS & 22.5° BENDS 11.25° A B A B A B A B A 2'-0" 1'-11" 2'-5" 2'-2" 1'-10" 1'-7" 1'-9" 0'-10" 1'-0" 2'-8" 2'-6" 3'-2" 3'-0" 2'-5" 2'-1" 1'-9" 1'-6" 1'-0" 3'-4" 3'-3" 4'-0" 3'-10" 3'-0" 2'-9" 2'-2" 1'-11" 1'-6" 4'-0" 3'-10" 4'-8" 3'-8" 3'-3" 2'-7" 2'-3" 2'-0"

NOTE: LEAKAGE AND HYDROSTATIC PRESSURE TESTING SHALL BE CONDUCTED AT 1.5 TIMES THE WORKING PRESSURE.



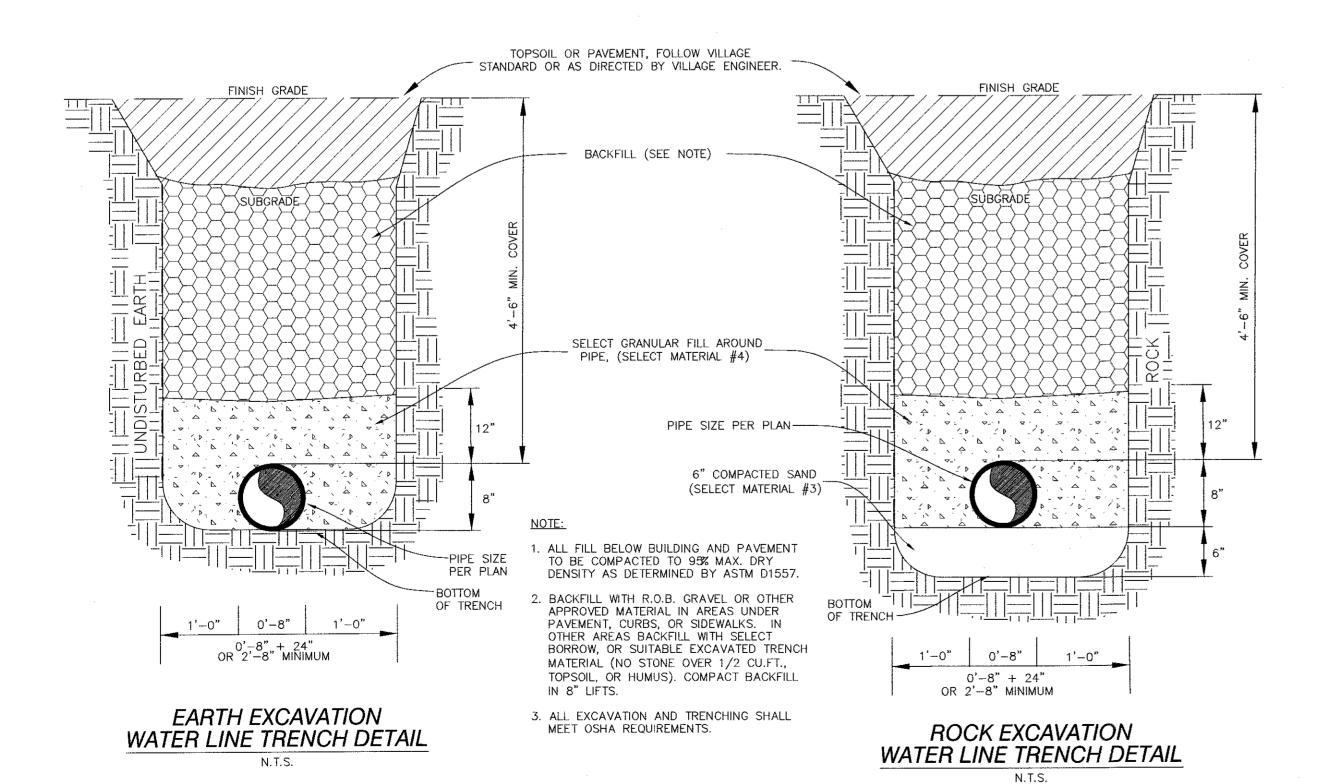
GENERAL NOTES:

1) BEARING SURFACE AREAS SHOWN IN CHART ARE MINIMUM.

2) BASED ON 150 P.S.I. INTERNAL PIPE PRESSURE.

3) SOIL BEARING CAPACITY = 2000 LB./SQ. FT.

TYPICAL THRUST BLOCKING DETAIL



DUCTILE IRON WATER MAIN:

DUCTILE CAST IRON PIPE SHALL BE THICKNESS CLASS 52 CEMENT-LINED AND BITUMINOUS SEAL COATED. THE PIPE SHALL BE MANUFACTURED IN ACCORDANCE WITH AMERICAN NATIONAL STANDARD (ANSI) A21.50 — YEAR OF LATEST REVISION, BY UNITED STATES PIPE AND FOUNDRY COMPANY FOUNDRY & PIPE COMPANY, OR OTHER ESTABLISHED AMERICAN MANUFACTURER.

FITTINGS:

DUCTILE IRON FITTINGS SHALL CONFORM TO ANSI A21.10 — YEAR OF LATEST REVISION (AWWA C110 — YEAR OF LATEST REVISION), AND SHALL BE CEMENT LINED AND SEAL COATED TO MATCH THE PIPE.

<u>JOINTS:</u>

PUSH-ON JOINTS SHALL CONFORM TO ANSI A21.11 - YEAR OF LATEST

REVISION (AWWA C111 - YEAR OF LATEST REVISION) FOR RUBBER GASKET

JOINTS. GASKETS SHALL BE RAINBOW, DURABLE, GARLCOK, OR APPROVED

EQUAL.

MECHANICAL JOINT PIPE OR FITTINGS SHALL CONFORM TO ANSI A21.11 - YEAR OF LATEST REVISION (AWWA C111 - YEAR OF LATEST REVISION.)

INSERTION VALVE:

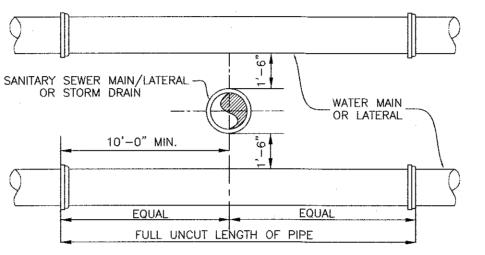
8" INSERTION VALVE SHALL BE MANUFACTURED BY U.S. PIPE CO., OR
APPROVED EQUAL, AND SHALL CONFORM TO AWWA C509 — YEAR OF LATEST
REVISION OPERATE CLOCKWISE TO OPEN.

EVES:

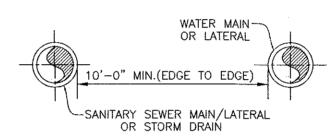
8" VALVES SHALL BE AS MANUFACTURED BY MUELLER CO., OR APPROVED EQUAL. THEY SHALL CONFORM TO AWWA C-509 YEAR OF LATEST REVISION, SHALL OPERATE COUNTERCLOCKWISE TO OPEN, AND SHALL HAVE A SQUARE OPERATING NUT. ENDS SHALL BE MECHANICAL JOINT WITH ADAPTERS AT THE CONTRACTORS OPTION.

VALVE BOXES:

VALVE BOXES SHALL BE TWO-PIECE, CAST IRON STANDARD SCREW TYPE
WITH CAST IRON COVER. VALVE BOX COVERS SHALL BE INSTALLED FLUSH
WITH THE RIM OF THE BOX CASTING, AND SHALL BE REMOVABLE WITH A BAR
OR PICK. COVERS SHALL BE MARKED "WATER" IN RAISED CAST LETTERS,
WITH AN ARROW INDICATING DIRECTION OF OPENING. VALVE BOXES SHALL BE
BINGHAM: TAYLOR NO. 4906 OR APPROVED EQUAL.



VERTICAL SEPARATION

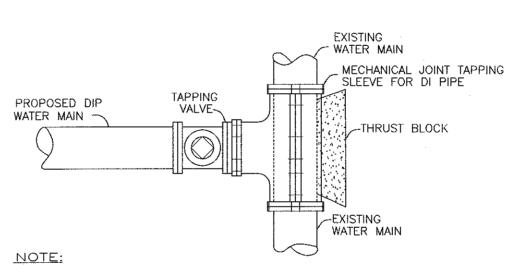


HORIZONTAL SEPARATION

1. THE SEPARATION REQUIREMENT SHALL CONFORM TO CURRENT ORANGE COUNTY DEPARTMENT OF HEALTH STATUTES, CODES, RULES, REGULATIONS AND LAWS AS THEY APPLY. ANY DEVIATION FROM THE ABOVE SEPARATION REQUIREMENTS SHALL REQUIRE WRITTEN APPROVAL FROM THE ORANGE COUNTY DEPARTMENT OF HEALTH.

2. WATER MAIN AND SERVICES SHALL BE INSTALLED PER ARTICLE III, SECTION 175-15 OF THE CODE OF THE VILLAGE OF CHESTER.

WATER / SEWER SEPARATION REQUIREMENTS

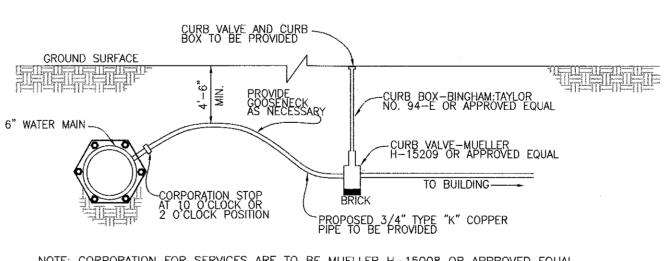


- WET TAP TO BE PERFORMED BY CONTRACTOR WITH ENGINEER ON SITE.
 CONTRACTOR TO CONTACT VILLAGE OF CHESTER WATER DEPARTMENT FOR
- 2. CONTRACTOR TO CONTACT VILLA INSTALLATION REQUIREMENT.

4. TAPPING VALVE SIZE AS REQUIRED FOR 8" D.I.

3. WET TAP OF EXISTING 8" D.I. MAIN WILL REQUIRE "MUELLER" H-615
MECHANICAL JOINT TAPPING SLEEVE FOR A 8" D.I. MAIN AND A 8" D.I. OUTLET.

WET TAP



NOTE: CORPORATION FOR SERVICES ARE TO BE MUELLER H-15008 OR APPROVED EQUAL WATER SERVICE CONNECTION

N.T.S.

PIPE TO BE REMOVED OBSTRUCTING UTILITY PIPE SIZE TO VARY 18" MIN SEPARATION TO OBSTRUCTION DUCTILE IRON PIPE 45" ELBOW (TYP) VARIES SEE PLAN FOR ACTUAL LENGTH (20'MIN)

WATERMAIN OFFSET

N.T.S.

DISTRIBUTION SYSTEM SPECIFICATIONS:

- A. ALL PIPE AND FITTINGS SHALL BE DUCTILE IRON CLASS 52, WITH MECHANICAL JOINTS OR A JOINT ACCEPTABLE TO THE VILLAGE OF CHESTER AND SHALL COMPLY WITH THE ACCEPTABLE STANDARDS AND SPECIFICATIONS UNDER ADOPTION BY THE BOARD OF TRUSTEES OF THE VILLAGE OF CHESTER. PIPE SHALL BE INSTALLED IN ACCORDANCE WITH THE TYPE A METHOD AS DEVELOPED BY THE AMERICAN STANDARDS ASSOCIATION. ALL VALVE BOX CASTINGS AND COVERS WILL BE AMERICAN—MADE AND APPROVED BY THE DPW SUPERINTENDENT.

 [AMENDED 10-10-2006 BY L.L. NO. 5-2006]
- B. ONLY TYTON JOINT PIPE WILL BE ACCEPTED AS AN ALTERNATE TO MECHANICAL JOINTS AND NO OTHER PUSH-ON TYPE JOINT EMPLOYING A GASKET WILL BE ALLOWED.
- C. SILICON BRONZE-SEPARATED WEDGES ARE TO BE INSTALLED BETWEEN THE LIP OF THE BELL AND THE PLAIN END OF TYTON JOINT PIPE AT ALL JOINTS.
- D. WHERE ROCK IS ENCOUNTERED, IT IS TO BE REMOVED TO SUCH AN EXTENT THAT AT NO SECTION WILL IT BE WITHIN SIX INCHES OF ANY PIPE SURFACE. IN SAID CONDITIONS, PIPE IS TO BE LAID ON A BED OF SAND, ITEM 4, OR ACCEPTABLE ROB GRAVEL BED, COMPACTED IN
- E. FIRE HYDRANTS SHALL BE FROM MUELLER SUPER CENTURION, SAFETY TYPE, WITH BREAKABLE RINGS AND DRAIN, AND HAVE ONE FOUR-AND-ONE-HALF-INCH PUMPER CONNECTION AND TWO TWO-AND-ONE-HALF-INCH HOLE CONNECTIONS, OPEN LEFT-CLOSE RIGHT, AND EACH ONE FITTED WITH FIGURE 572X VALVE (FIVE-AND-A-QUARTER INCH VALVE OPENING).

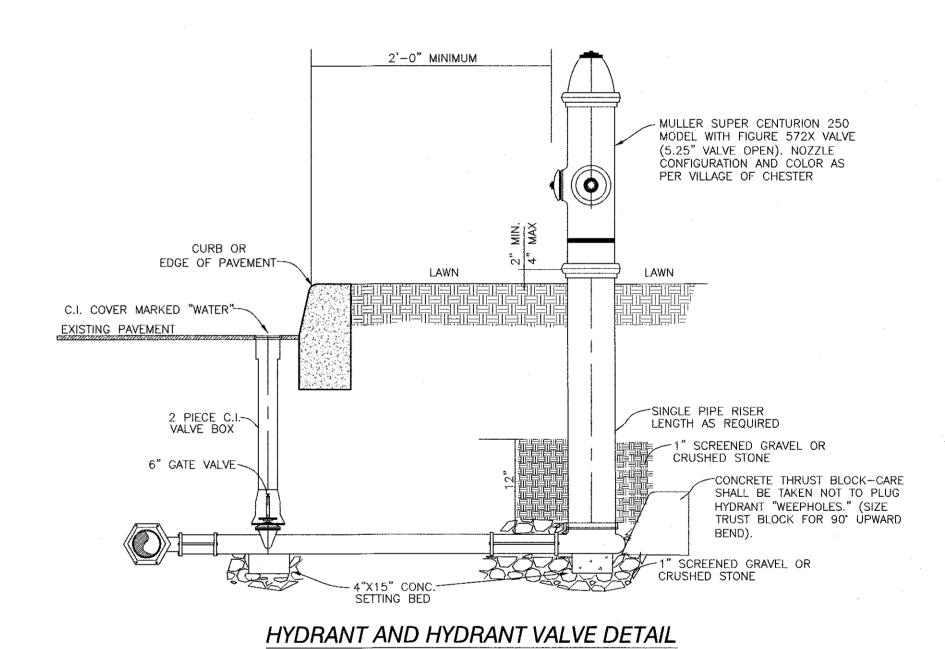
 [AMENDED 12-13-2000 BY L.L. NO. 5-2000; 4-11-2001 BY L.L. NO. 3-2001]
- F. ALL VALVES SHALL BE MUELLER AWWA RESILIENT 250 WEDGE SEAT GATE VALVES WITH O-RING SEALS.
 [AMENDED 4-11-2001 BY L.L. NO. 3-2001]
- G. CONCRETE BLOCKING SHALL BE INSTALLED AT ALL FIRE HYDRANTS, BENDS AND DEAD ENDS OR RETAINING RODS.
- H. ALL SECTIONS OF WATER MAINS SHALL HAVE MINIMUM FOUR FEET SIX INCHES DEPTH OF
- I. ALL SECTIONS OF ROADWAY SHALL BE BROUGHT TO SUBGRADE LEVEL AND TRENCHED BEFORE THE INSTALLATION OR LAYING OF ANY PIPE.
- J. COMPLETED SECTIONS OF WATER MAINS SHALL BE TESTED AND CHECKED FOR LEAKS BEFORE
- FINAL ROAD SURFACING IS APPLIED.

 K. ALL WATER MAINS SHALL BE INSTALLED ON THE NORTH AND/OR WEST SIDE OF STREETS AT A
- DISTANCE OF 10 FEET FROM THE CENTER LINE OF THE RIGHT-OF-WAY.

 L. ALL CURB BOXES SHALL BE INSTALLED ALONG RIGHT-OF-WAY LINES AND WITHIN LOT SIDE
- LINES.
- M. ALL FIRE HYDRANTS SHALL BE LOCATED IN THE GRASS MALL AREA BACK OF THE CURBLINE, CENTERED AT A DISTANCE OF 24 INCHES FROM THE FACE OF THE CURBLINE AND INSTALLED AT THE GROUNDLINE MARK EMBOSSED ON THE LOWER STANDPIPE SECTION OF THE HYDRANT.
- N. ALL WORK IN CONNECTION WITH THE WATER DISTRIBUTION SYSTEM SHALL BE UNDER THE DIRECTION AND SUPERVISION OF THE VILLAGE DEPARTMENT OF PUBLIC WORKS SUPERINTENDENT.

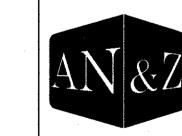
 [AMENDED 4-11-2001 BY L.L. NO. 3-2001]
- O. ALL EXTENSIONS TO THE WATER DISTRIBUTION SYSTEM, OTHER THAN CUSTOMER TAPS, SHALL BE FIRST APPROVED BY THE BOARD OF TRUSTEES, UPON SUCH REASONABLE CONDITIONS IT MAY IMPOSE, AND SHALL THEREAFTER BE UNDER THE DIRECTION AND SUPERVISION OF THE VILLAGE DEPARTMENT OF PUBLIC WORKS SUPERINTENDENT.

 [AMENDED 4-11-2001 BY L.L. NO. 3-2001]
- P. POTABLE WATER SERVICE COMPONENTS SHALL MEET THE PROVISIONS OF THE NEW YORK STATE "LEAD FREE" LAW AS APPROPRIATE.



3 09-11-23 PER PLANNING BOARD COMMENTS 8-22-23
2 07-26-23 PRELIMINARY SUBMISSION
1 04-11-23 LANC & TULLY MEMO 3-24-23
REVISION DATE DESCRIPTION

ATZL, NASHER & ZIGLER P. C. FINCINFERS, SURVEYORS, DIANNERS



ENGINEERS-SURVEYORS-PLANNERS

232 North Main Street
New City, New York 10956
Tel: (845) 634-4694
Fax: (845) 634-5543
E-mail: info@anzny.com

Web: www.ANZNY.com

SUMMERVILLE INDUSTRIAL PARK

VILLAGE OF CHESTER ORANGE COUNTY, NEW YORK

WATER MAIN DETAILS

DRAWN BY: VC CHECKED BY: DMZ

DATE: JANUARY 22, 2023 SCALE: N.T.S.

PROJECT NO: DRAWING NO:

3390 15

"UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A
SURVEY MAP BEARING A LICENSED LAND SURVEYOR'S
EMBOSSED SEAL IS A VIOLATION OF SECTION 7209,
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LAW."

"ONLY COPIES FROM THE ORIGINAL TRACING OF THIS
SURVEY MAP MARKED WITH THE LAND SURVEYOR'S
EMBOSSED SEAL SHALL BE CONSIDERED TO BE VALID
TRUE COPIES."

"CERTIFICATION INDICATED HERE ON SIGNIFY THAT THIS
SURVEY WAS PREPARED IN ACCORDANCE WITH THE
EMISTING CODE OF PRACTICE FOR LAND SURVEYOR'S
ADDOTE THE DIRECTION OF A LICENSED PROFESSIONAL
UNDER THE DIRECTION OF A LICENSED PROFESSIONAL THE
PROFESSIONAL ENGINEER MUST SIGN, SEAL, DATE AND
DESCRIBE THE FULL EXTENT OF THE ALTERATION ON THE
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LAW SECTION 7209-2)

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WINDITIONS FOR WHOM THE SURVEY WAS PREPARED.
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OF NEW MACHINE PLANT OF THE ALTERATION ON THE ALTERATION ON THE ALTERATION ON THE ALTERATION ON THE ALTERATION OF THE ALTERATION ON THE ALTERATION OF THE ALTERATION ON THE ALTERATION

ELASTOMERIC COMPRESSION GASKET (ASTM C-564)

B) DUCTILE IRON PIPE: CLASS 52, CEMENT LINED, AND TAR COATED INSIDE & OUT.

- 1) PIPE BEDDING SHALL BE A CLASS I ASTM D2321 EMBEDMENT MATERIAL THAT SHALL BE EITHER CRUSHED STONE OR WASHED GRAVEL PASSING A 3/4" SIEVE AND RETAINED ON A 3/8" SIEVE. THE EMBEDMENT MATERIAL SHALL BE HAD TAMPED AND COMPACTED TO 90% OF THE MAXIMUM DENSITY OF THE EMBEDMENT MATERIAL AS DETERMINED BY THE STANDARD PROCTOR TEST IN ACCORDANCE WITH AASHTO DESIGNATION T-99. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE A GO-NO-GO TESTING GAUGE, AS DEFINED IN THE GREEN-TITE (TRADEMARK) PVC GRAVITY SEWER PIPE INSTALLATION GUIDE AS PUBLISHED BY J-M PIPE (OR APPROVED EQUAL) FOR TESTING DEFLECTION OF MAIN LINE SEWER PIPE, AS DIRECTED BY OCSD. MAXIMUM MAIN LINE SEWER DEFLECTION SHALL BE NO GREATER THAN 5%.
- 2) BACKFILL FROM 12 IN. TO 24 IN. ABOVE THE PIPE EMBEDMENT MATERIAL SHALL BE FINE EARTH, FREE FROM CINDERS AND SHALL BE MECHANICALLY COMPACTED. REMAINING BACKFILL SHALL BE FREE FROM LARGE CLODS, ROCKS, AND CINDERS. 3) PLACE EMBEDMENT MATERIAL BY HAND AND HAND COMPACT UNDER AND AROUND SIDES OF PIPE. PLACE EMBEDMENT MATERIAL IN 6" LAYERS ABOVE TOP OF
- 4) THE OWNER AND CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE A COMPETENT PERSON DURING ALL PHASES OF CONSTRUCTION WHOSE DUTY SHALL BE TO INSURE THAT ALL PHASES OF CONSTRUCTION ARE IN FULL COMPLIANCE WITH OCSD NO.1 SPECIFICATIONS AND ALL APPLICABLE FEDERAL, STATE AND LOCAL STATUTES, CODES. RULES, REGULATIONS AND LAWS INCLUDING, BUT NOT LIMITED TO UNITED STATES DEPARTMENT OF LABOR OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) AND NEW YORK STATE DEPARTMENT OF LABOR FOR OSHA SECTION 1910.146 PERMIT REQUIRED CONFINED SPACE ENTRY, OSHA SECTION 1926.650 EXCAVATION GENERAL PROTECTION REQUIREMENTS AND OSHA SECTION 1926.651 TRENCHING AND SHORING, STATE OF NEW YORK UNIFORM FIRE PREVENTION AND BUILDING CODES AND NATIONAL FIRE PROTECTION

PIPE, AND HAND COMPACT TO A POINT 12" MINIMUM ABOVE THE TOP OF PIPE.

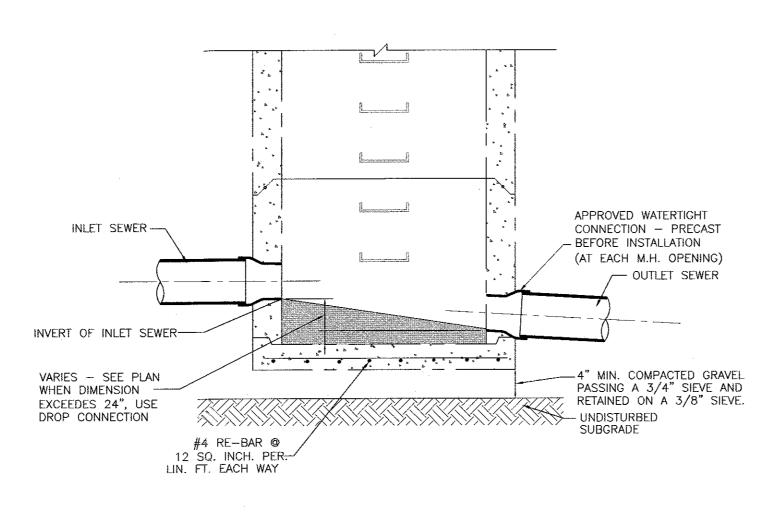
- 5) ALL APPROVED MAIN LINE SEWER PIPE SHALL BE THE SAME MATERIAL FROM MANHOLE TO MANHOLE.
- 6) FILL SECTION AREA MUST BE GRADED WITH THE PLACEMENT OF SUITABLE SOIL MATERIAL AS DETERMINED BY THE PROJECT SITE ENGINEER, IN 12 INCH MAXIMUM LAYERS COMPACTED TO 95 % OF THE MAXIMUM DENSITY OF THE SOIL AS DETERMINED BY THE STANDARD PROCTOR TEST (AASHTO DESIGNATION T-99) TO 2'-0" MINIMUM ABOVE TOP OF PIPE AT A MINIMUM WIDTH OD O.D. + 4' BEFORE TRENCH EXCAVATING. (ANY FILL SECTION AREA THAT DOES NOT CONFORM TO THIS FILL SECTION AREA COMPACTION STANDARD SHALL REQUIRED THE INSTALLATION OF CLASS 52 DIP, TAR COATED INSIDE AND OUT, FROM MANHOLE TO MANHOLE FOR SEWER MAINS AND ALONG THE ENTIRE SERVICE LINE RUN FOR BUILDING LATERAL SEWERS.) ALL FILL SECTION AREAS SHALL REQUIRE REVIEW AND APPROVAL BY OCSD1 BEFORE INSTALLING PIPE.
- 7) WHERE ROCK IS ENCOUNTERED IN THE TRENCH BOTTOM, UNDERCUT MUST BE MADE BETWEEN 12" MINIMUM TO 24" MAXIMUM.
- 8) WHERE UNSUITABLE MATERIAL IS ENCOUNTERED IN TRENCH BOTTOM, UNDERCUT TO SUITABLE MATERIAL (AS APPROVED).

FINISHED GRADE OR PAVEMENT;

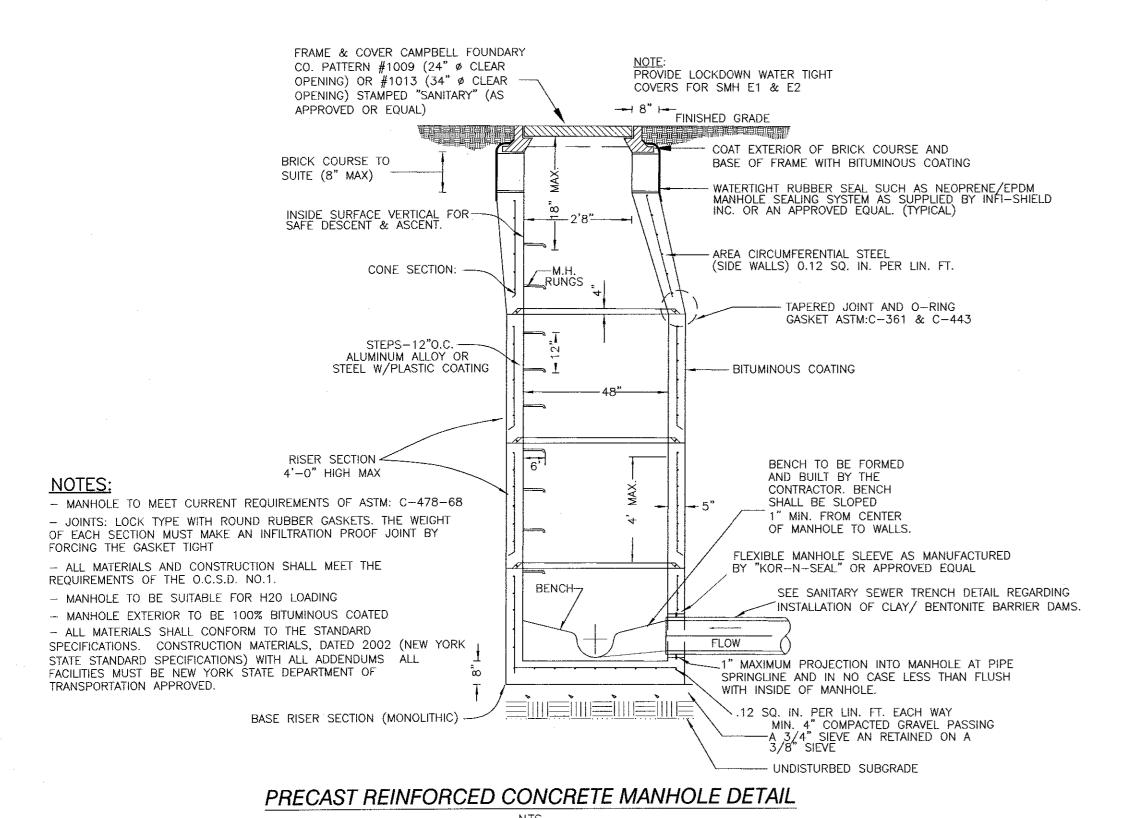
PAVEMENT REPLACEMENT TO FOLLOW VILLAGE STANDARDS OR AS DIRECTED BY MUNICIPAL ENGINEER. -STABLE SLOPES SHEATHING (IF USED) TO REMAIN SEE NOTE #2 PIPE O.D. TRENCH WIDTH 24" AND SMALLER | 0.D. + 1'-4"

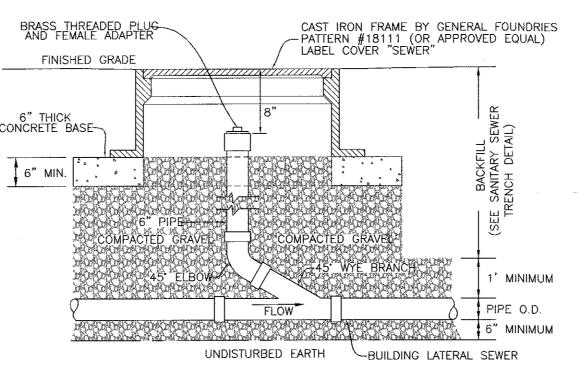
30" AND LARGER 0.D. + 2'-0"

SANITARY SEWER TRENCH DETAIL

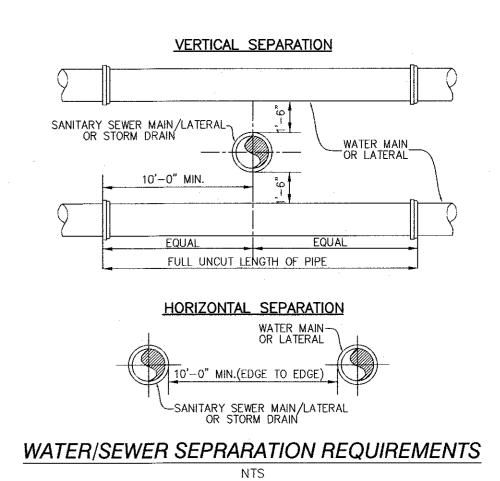


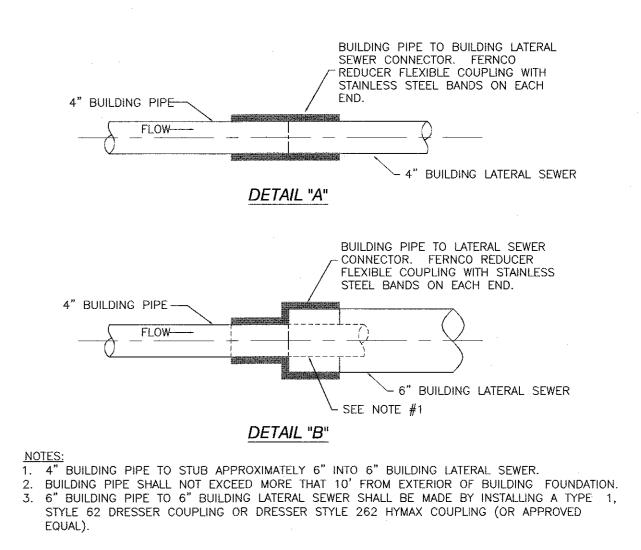
SEWER MANHOLE INVERT DETAIL





1. EACH BUILDING SEWER SHALL HAVE A CLEANOUT INSTALLED APPROXIMATELY 2' DOWNSTREAM OF THE BUILDING PIPE TO BUILDING SEWER CONNECTION. THEREAFTER, CLEANOUTS SHALL BE INSTALLED ALONG THE BUILDING SEWER APPROXIMATELY EVERY 75' (MAXIMUM), FOR THE PURPOSE OF CLEANOUT LOCATIONS DISTANCE SHALL BE MEASURED FROM THE FIRST CLEANOUT LOCATED DOWNSTREAM OF THE HOUSE PIPE





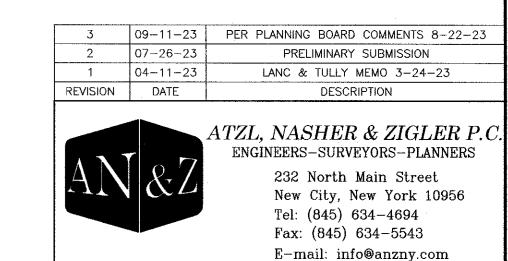
BUILDING PIPE TO BUILDING LATERAL SEWER CONNECTION

"UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A SURVEY MAP BEARING A LICENSED LAND SURVEYOR'S EMBOSSED SEAL IS A VIOLATION OF SECTION 7209, SUBDIVISION 2, OF THE NEW YORK STATE EDUCATION

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ASSIGNS OR SUBSEQUENT OWNERS."

N.Y.S. P.E. LIC NO. 89066



PROJECT: **SUMMERVILLE** INDUSTRIAL PARK

> VILLAGE OF CHESTER ORANGE COUNTY, NEW YORK

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"ONLY COPIES FROM THE ORIGINAL TRACING OF THIS SURVEY MAP MARKEED WITH THE LAND SURVEYOR'S EMBOSSED SEAL SHALL BE CONSIDERED TO BE VALID TRUE COPIES."

THE EDUCATION LAW OF THE STATE OF NEW YORK PROHIBITS ANY PERSON ALTERING ANYTHING ON THESE DRAWINGS AND/OR THE ACCOMPANYING SPECIFICATIONS, UNLESS IT IS UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER. WHERE SUCH ALTERATIONS ARE MADE, THE PROFESSIONAL ENGINEER MUST SIGN, SEAL, DATE AND DESCRIBE THE FULL EXTENT OF THE ALTERATION ON THE DRAWINGS AND/OR IN THE SPECIFICITIONS, (NYS EDUCATION INDIVIDUALS, INSTITUTIONS, THEIR SUCCESSORS AND/OR UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER. WHERE SUCH ALTERATIONS ARE MADE, THE PROFESSIONAL ENGINEER MUST SIGN, SEAL, DATE AND DESCRIBE THE FULL EXTENT OF THE ALTERATION ON THE DRAWNOS AND/OR IN THE SPECIFICATIONS. (NYS EDUCATION ASSEMBLY OF AND THE SUCCESSORS AND/OR ASSEMBLY OF AND THE SPECIFICATIONS. (NYS EDUCATION ASSEMBLY OF AND THE SUCCESSORS AND/OR AS SANITATION SEWER DETAILS

CHECKED BY: DMZ DRAWN BY: DATE: JANUARY 22, 2023 SCALE: N.T.S. PROJECT NO: DRAWING NO: 3390 16

6" THICK CONCRETE BASE

TO BUILDING SEWER CONNECTION HENCE DOWNSTREAM ALONG THE BUILDING SEWER TO THE CENTER OF THE SEWER MAN LINE (GENERALLY LOCATED IN THE CENTER OF THE STREET) 2. A CLEANOUT LOCATED IN A ROAD, DRIVEWAY OR PARKING AREA SHALL REQUIRE A CAMBELL FOUNDRY

#4164 CAST IRON FRAME AND COVER. (OR APPROVED EQUAL)

BUILDING LATERAL SEWER CLEANOUT DETAIL

