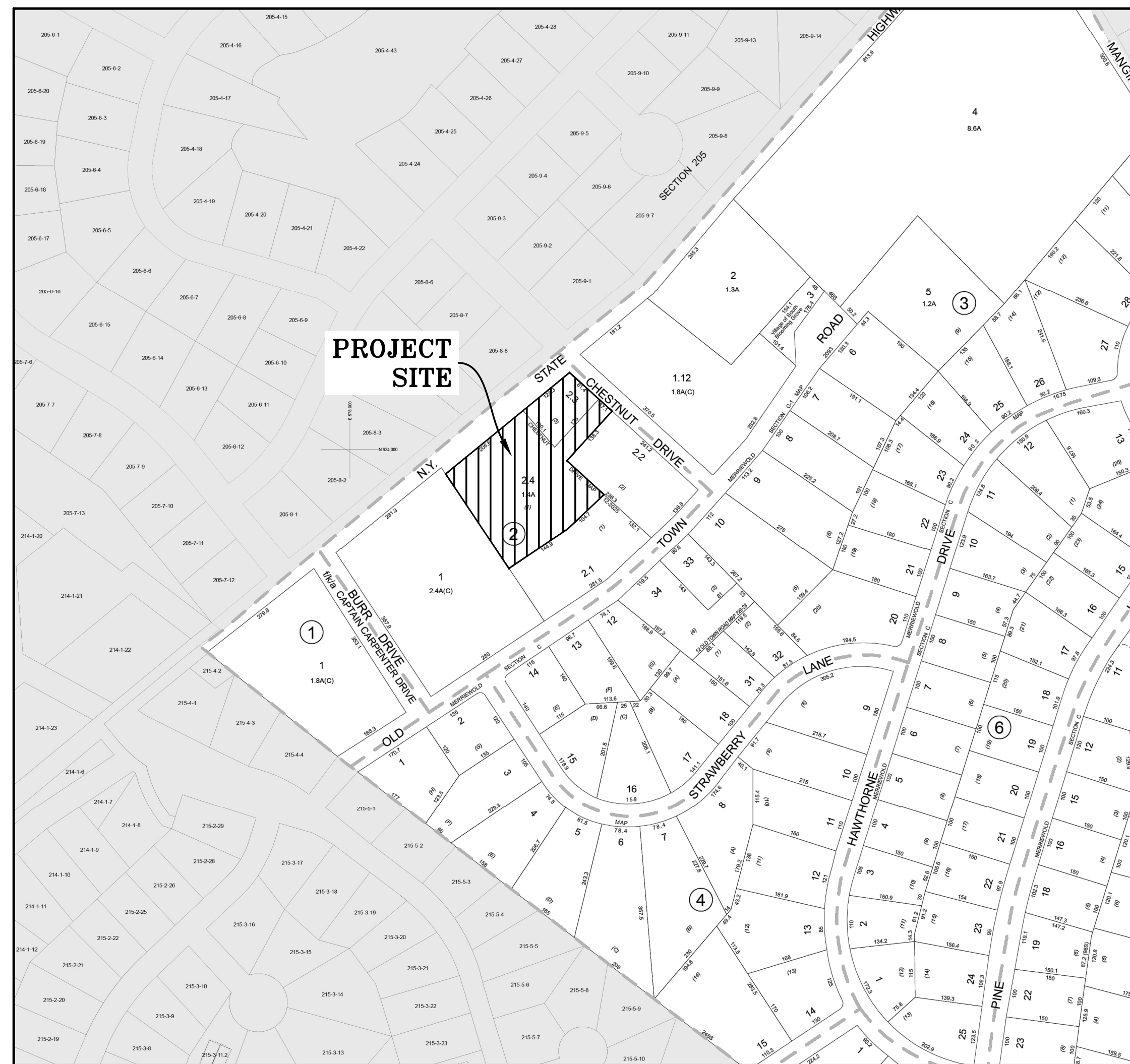


PHASE III SITE PLAN FOR ROUTE 208 & CHESTNUT DRIVE VILLAGE OF SOUTH BLOOMING GROVE ORANGE COUNTY, NEW YORK



LOCATION MAP

SCALE: 1"=200'

GENERAL NOTES:

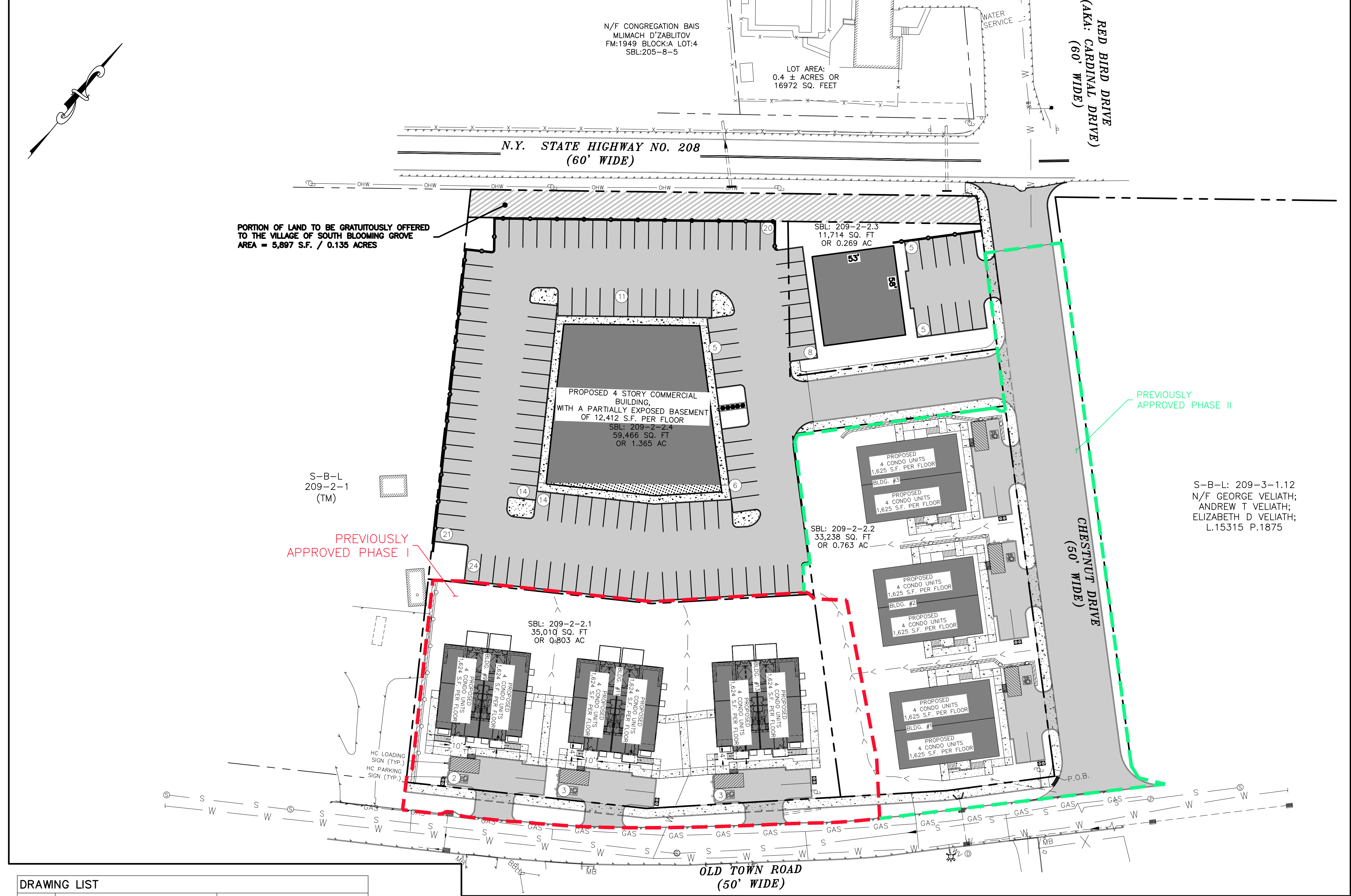
1. RECORD OWNER & APPLICANT:
YOEL WAGSCHAL
14 TAMARAC LN
WASHINGTONVILLE NY 10992
2. PROPERTY ADDRESS:
RTE 208 & CHESTNUT DR.
VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK
3. TAX MAP NUMBER:
SECTION 209, BLOCK 2, LOT 2.3
SECTION 209, BLOCK 2, LOT 2.4
4. DEED REFERENCE:
LIBER 15619, PAGE 279
5. PARCEL AREA/SIZE:
SBL: 209-2-2.3: 11,714 SF
SBL: 209-2-2.4: 59,446 SF
6. SPRINKLER SYSTEM & FIRE WALL SEPARATION ARE REQUIRED FOR THIS PROJECT PRIOR TO
ISSUANCE OF A BUILDING PERMIT.
7. SURVEY REFERENCE:
- PLAN ENTITLED "ROUTE 208 & CHESTNUT DRIVE, SECTION 209 -BLOCK 2 - LOT 2 SITUATED IN
THE VILLAGE OF SOUTH BLOOMING GROVE, ORANGE COUNTY, NEW YORK, DATED 1-22-2024,
PREPARED BY JOHN W. MCCORD, Sr., P.L.S., NEW YORK.
- PLAN ENTITLED "TOPOGRAPHICAL SURVEY OF PROPERTY PREPARED FOR 1 RED BIRD DRIVE IN
THE VILLAGE OF SOUTH BLOOMING GROVE, TOWN OF BLOOMING GROVE, ORANGE COUNTY, NEW
YORK, DATED 2-24-2022, PREPARED BY EDWARD T. GANNON, P.L.S., NEW YORK.
- PLAN ENTITLED "MINOR SUBDIVISION PREPARED FOR CHESTNUT DRIVE, VILLAGE OF SOUTH
BLOOMING GROVE, TOWN OF BLOOMING GROVE, COUNTY OF ORANGE, STATE OF NEW YORK,
SECTION 209 -BLOCK 2 - LOT 2, SURVEY DATE: 5-2-2024, MAP DATE: 2-3-2025."
PREPARED BY EDWARD T. GANNON, P.L.S., NEW YORK. FILED MAP # 12-205 AS FILED IN THE
ORANGE COUNTY CLERK'S OFFICE ON 2/3/2025.
8. UPON COMPLETION OF PROJECT CONSTRUCTION, AN AS-BUILT PLAN SHALL BE PREPARED OF
THE PROJECT WHICH SHALL INCLUDE ALL UTILITIES INSTALLED AS PART OF THE PROJECT,
ALONG WITH ALL RIM AND PIPE INVERTS FOR SANITARY AND STORM DRAINAGE STRUCTURES,
PIPE SIZES AND MATERIALS.
9. THIS PROJECT WILL REQUIRE REVIEW AND APPROVAL BY ORANGE COUNTY SEWER DISTRICT #1
FOR THE PROPOSED CONNECTION TO THE SANITARY SEWER SYSTEM. AN ENGINEER'S REPORT
AND TECHNICAL SPECIFICATIONS SHALL BE PROVIDED TO THE MUNICIPALITY FOR THE SEWER
COLLECTION SYSTEM.
10. ANY CONSTRUCTION WORK PERFORMED WITHIN THE WATERSHED OF A PUBLIC WATER SUPPLY
SOURCE WILL BE PERFORMED IN A MANNER CONSIDERED SATISFACTORY TO THE WATER
SUPPLIER AND IN COMPLIANCE WITH ANY EXISTING WATERSHED RULES AND REGULATIONS.
11. ONLY DETAILS AND NOTES ASSOCIATED WITH THE INSTALLATION OF THE PROPOSED DOMESTIC
AND FIRE BACKFLOW PREVENTION DEVICES ARE SUBJECT TO THE REVIEW AND APPROVAL BY
THE ORANGE COUNTY DEPARTMENT OF HEALTH.

NOTE:

ALL PROPOSED BUILDING SHALL PROVIDE FIRE PROTECTION IN ACCORDANCE WITH NYS BUILDING CODE.

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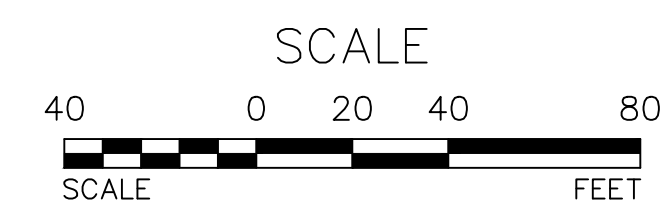


DRAWING LIST

Sheet #	Sheet Title	ORIGINAL DATE / LAST REVISED DATE
01 OF 16	TITLE SHEET	08-29-25 / 10-13-25
02 OF 16	EXISTING CONDITIONS PLAN	08-29-25 / 10-13-25
03 OF 16	DEMOLITION PLAN	08-29-25 / 10-13-25
04 OF 16	PROPOSED SITE PLAN	08-29-25 / 10-13-25
05 OF 16	GRADING PLAN	08-29-25 / 10-13-25
06 OF 16	UTILITY PLAN	08-29-25 / 10-13-25
07 OF 16	DRAINAGE PROFILE	08-29-25 / 10-13-25
08 OF 16	SEWER & WATER PROFILES	08-29-25 / 10-13-25
09 OF 16	EROSION & SEDIMENT CONTROL PLAN	08-29-25 / 10-13-25
10 OF 16	EROSION & SEDIMENT CONTROL DETAILS	08-29-25 / 10-13-25
11 OF 16	SANITARY DETAILS	08-29-25 / 10-13-25
12 OF 16	WATER SUPPLY DETAILS	08-29-25 / 10-13-25
13 OF 16	STORMWATER CONTRUCTION DETAILS	08-29-25 / 10-13-25
14 OF 16	STORMWATER CONTRUCTION DETAILS	08-29-25 / 10-13-25
15 OF 16	CONTRUCTION DETAILS	08-29-25 / 10-13-25
16 OF 16	CONSTRUCTION SPECIFICATIONS	08-29-25 / 10-13-25

TITLE SHEET
SCALE: 1"=40'

TREE CLEARING NOTE:
NO TREES SHALL BE REMOVED FROM APRIL 1st TO
NOVEMBER 1st TO MITIGATE POTENTIAL HARMFUL
IMPACTS TO INDIANA BAT.



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REV.	BY	DATE	DESCRIPTION
1.	MM	10-13-25	PER DOT SUBMITTAL

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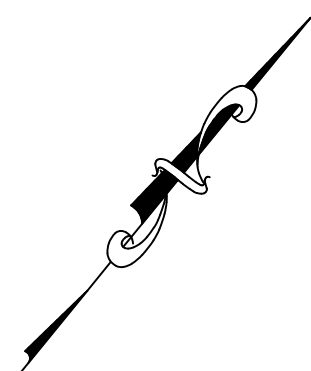
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PHASE III SITE PLAN FOR
ROUTE 208 & CHESTNUT DRIVE
VILLAGE OF SOUTH BLOOMING GROVE
COUNTY OF ORANGE, NEW YORK

TITLE SHEET

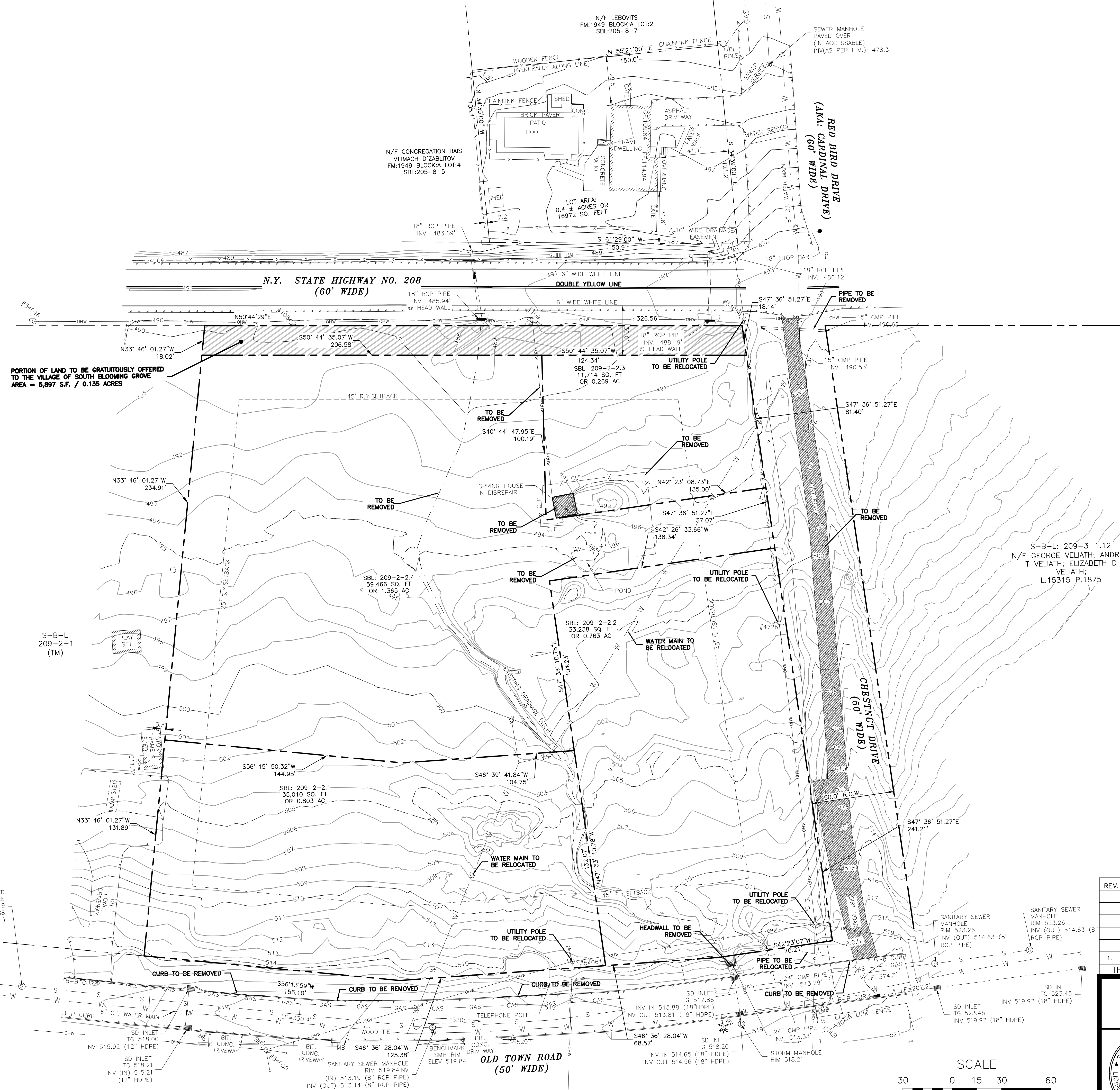
MICHAEL A. MORGANTE, P.E.
Lic. No. 78577

JOB#: 24-010
SCALE: AS NOTED
DATE: 08-29-25
DRAWN: MM
CHECKED: MM
SHEET NO. 01 of 16



LEGEND:

	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	EXISTING EDGE OF PAVEMENT
	EXISTING PROPERTY LINE
	EXISTING ADJACENT PROPERTY LINE
	EXISTING CHAIN LINK FENCE
	EXISTING BUILDING
	EXISTING DEPRESSED CURB
	EXISTING OVERHEAD LINE
	EXISTING WATER LINE
	EXISTING GAS LINE
	EXISTING SEWER LINE
	EXISTING DRAINAGE PIPE
	EXISTING STREAM
	EXISTING STORM MANHOLE
	EXISTING POLE
	EXISTING SIGN
	EXISTING SEWER MANHOLE
	EXISTING FIRE HYDRANT
	EXISTING MAIL BOX
	EXISTING INLET
	EXISTING GUY WIRE
	EXISTING UTILITY BOX
	EXISTING WATER VALVE
	EXISTING ENTITY TO BE REMOVE



PORTION OF LAND TO BE GRATUITOUSLY OFFERED TO THE VILLAGE OF SOUTH BLOOMING GROVE
AREA = 5,897 S.F. / 0.135 ACRES

NOTE:
ASBESTOS TESTING REQUIRED BEFORE DEMOLITION.

TREE CLEARING NOTE:
NO TREES SHALL BE REMOVED FROM APRIL 1st TO OCTOBER 31st TO MITIGATE POTENTIAL HARMFUL IMPACTS TO INDIANA BAT.

REV.	BY	DATE	DESCRIPTION
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PHASE III SITE PLAN FOR
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COUNTY OF ORANGE, NEW YORK

DEMOLITION PLAN

JOB#: 24-010
SCALE: AS NOTED
DATE: 08-29-25
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CHECKED: MM
SHEET NO: 03 of 16

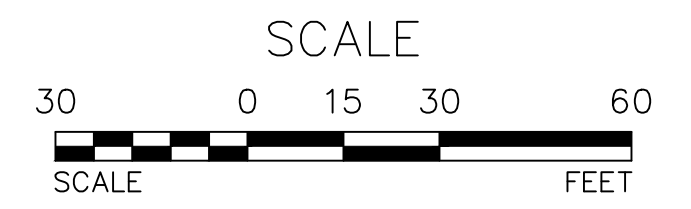
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LIC. NO. 78577

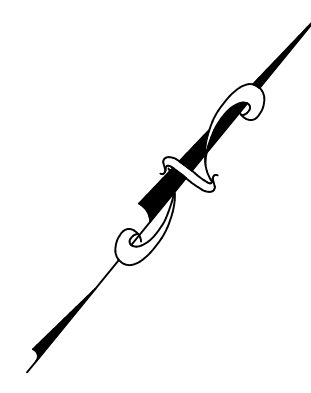
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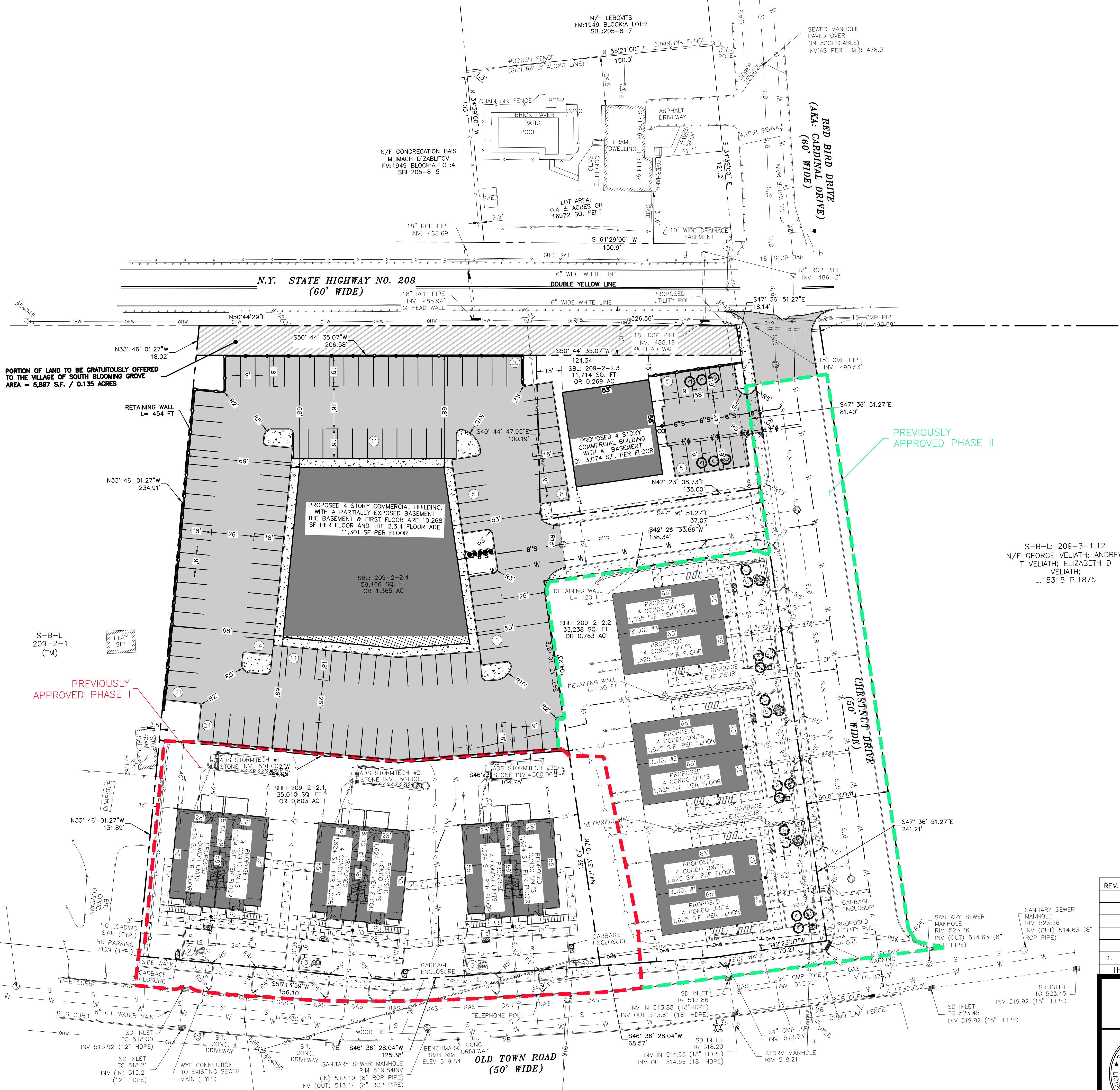
DEMOLITION PLAN
SCALE: 1"=30'





LEGEND:

	EXISTING EDGE OF PAVEMENT
	EXISTING PROPERTY LINE
	EXISTING ADJACENT PROPERTY LINE
	EXISTING CHAIN LINK FENCE
	EXISTING BUILDING
	EXISTING DEPRESSED CURB
	EXISTING OVERHEAD LINE
	EXISTING WATER LINE
	EXISTING GAS LINE
	EXISTING SEWER LINE
	EXISTING DRAINAGE PIPE
	EXISTING STREAM
	EXISTING STORM MANHOLE
	EXISTING POLE
	EXISTING SEWER MANHOLE
	EXISTING FIRE HYDRANT
	EXISTING MAIL BOX
	EXISTING INLET
	EXISTING GUY WIRE
	EXISTING UTILITY BOX
	EXISTING WATER VALVE
	PROPOSED PROPERTY LINE
	PROPOSED PAVEMENT
	PROPOSED SIDEWALK
	PROPOSED WALL
	PROPOSED SPLIT RAIL FENCE
	PROPOSED WATER MAIN RELOCATION



PORTION OF LAND TO BE GRATUITOUSLY OFFERED TO THE VILLAGE OF SOUTH BLOOMING GROVE
 AREA = 5,897 S.F. / 0.135 ACRES

PREVIOUSLY APPROVED PHASE II

PREVIOUSLY APPROVED PHASE I

S-B-L: 209-3-1.12
 N/F GEORGE VELIATH; ANDREW T VELIATH; ELIZABETH D VELIATH;
 L.15315 P.1875

BULK REQUIREMENTS - ZONING DISTRICT: RB (RESIDENCE B)

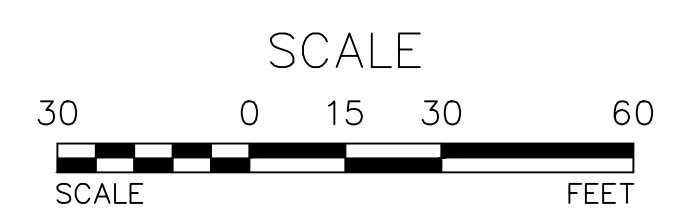
	REQUIRED	SBL: 209-2-2.3	SBL: 209-2-2.4
MIN. LOT AREA (GROSS)	12,000 SF	11,714 SF	59,466 SF
MIN. LOT AREA (NET)	10,000 SF	11,714 SF	59,466 SF
MINIMUM FRONTAGE	*	81.40 FT	241.13 FT
MAXIMUM BUILDING COVERAGE	*	26.24% ²⁾	17.27% ³⁾
MIN. FRONT YARD SETBACK	*	58 FT	50 FT
MIN. REAR YARD SETBACK	*	15 FT	68 FT
MIN. SIDE YARD SETBACK	*	15 FT	68 FT
MAX. HEIGHT (FEET)	35 FT	55 FT ¹⁾	55 FT ¹⁾
MAX. HEIGHT (STORIES)	2 STORIES	4 STORIES ²⁾	4 STORIES ²⁾

- 1) ZBA VARIANCE REQUIRED FOR BUILDING HEIGHT
 2) ZBA VARIANCE REQUIRED FOR NUMBER OF FLOORS
 * DETERMINED DURING THE SUBDIVISION PROCESS BY THE PLANNING BOARD
 ** MINIMUM FRONTAGE ON CURVED LOTS SHALL BE MEASURED AT THE FRONT SETBACK LINE.
 *** MINIMUM FRONT YARD SHALL BE 40 FEET AS MEASURED FROM THE EDGE OF PAVEMENT.
 3) BUILDING COVERAGE
 • SBL: 209-2-2.3: 3,074 SF / 11,714 SF X 100% = 26.24%
 • SBL: 209-2-2.4: 10,268 SF / 59,466 SF X 100% = 17.27%

NOTES:
 GROSS = CALCULATION INCLUDE AREA THROUGH THE CENTER LINE OF THE PROPERTY'S (RIGHT-OF-WAY) ROAD
 FRONTAGE NET = CALCULATION EXCLUDE AREA THROUGH THE CENTER LINE OF THE PROPERTY'S (RIGHT-OF-WAY) ROAD.

TREE CLEARING NOTE:
 NO TREES SHALL BE REMOVED FROM APRIL 1st TO OCTOBER 31st TO MITIGATE POTENTIAL HARMFUL IMPACTS TO INDIANA BAT.

PARKING REQUIREMENTS
 56,467 SF - 30% FOR COMMON SPACE AREA = 39,526.9 SF
 39,526.9/300 SF/PARKING SPACE = 131 PARKING SPACES REQUIRED
 133 PARKING SPACES ARE PROVIDED.



REV.	BY	DATE	DESCRIPTION
1.	MM	10-13-25	PER DOT SUBMITTAL

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**PHASE III SITE PLAN FOR
 ROUTE 208 & CHESTNUT DRIVE
 VILLAGE OF SOUTH BLOOMING GROVE
 COUNTY OF ORANGE, NEW YORK**

PROPOSED SITE PLAN

JOB#: 24-010
 SCALE: AS NOTED
 DATE: 08-29-25
 DRAWN: MM
 CHECKED: MM
 SHEET NO: 04 OF 16

MICHAEL A. MORGANTE, P.E.
 Lic. No. 78877

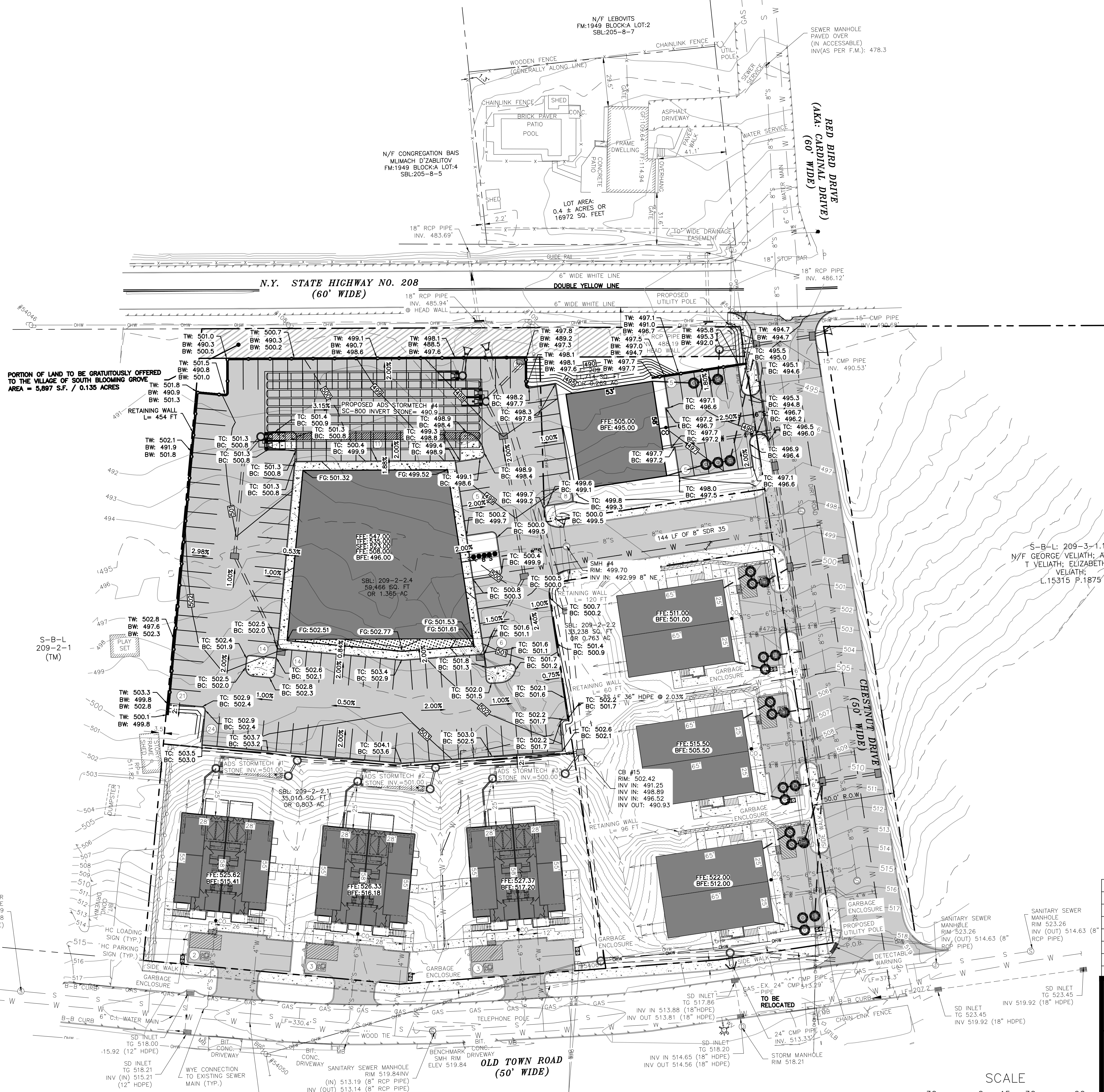
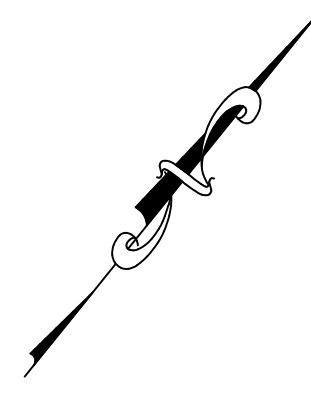
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PROPOSED SITE PLAN
 SCALE: 1"=30'

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LEGEND:

---	EXISTING MAJOR CONTOUR
---	EXISTING MINOR CONTOUR
---	EXISTING EDGE OF PAVEMENT
---	EXISTING PROPERTY LINE
---	EXISTING ADJACENT PROPERTY LINE
x-x-x	EXISTING CHAIN LINK FENCE
▨	EXISTING BUILDING
▨	EXISTING DEPRESSED CURB
OHW	EXISTING OVERHEAD LINE
W	EXISTING WATER LINE
GAS	EXISTING GAS LINE
S	EXISTING SEWER LINE
---	EXISTING DRAINAGE PIPE
⊙	EXISTING STORM MANHOLE
⊙	EXISTING POLE
⊙	EXISTING SIGN
⊙	EXISTING SEWER MANHOLE
⊙	EXISTING FIRE HYDRANT
⊙	EXISTING MAIL BOX
⊙	EXISTING INLET
⊙	EXISTING GUY WIRE
⊙	EXISTING UTILITY BOX
⊙	EXISTING WATER VALVE
---	PROPOSED PAVEMENT
---	PROPOSED SIDEWALK
---	PROPOSED WALL
---	PROPOSED MAJOR CONTOURS
---	PROPOSED MINOR CONTOURS
---	PROPOSED SWALE
---	PROPOSED RPZ DRAIN TO DAYLIGHT
---	PROPOSED ROOF & FOOTING DRAIN TO DAYLIGHT
---	PROPOSED 4" D.I.P WATER SERVICE
---	PROPOSED 6" SDR35 SEWER LATERAL
---	PROPOSED 8" SDR35 SEWER MAIN
---	PROPOSED SPLIT RAIL FENCE
---	PROPOSED WATER MAIN RELOCATION
---	PROPOSED DRAINAGE PIPE
---	PROPOSED FLARED END SECTION
---	PROPOSED SEWER MANHOLE
---	PROPOSED DRY WELL RISER AND CAST IRON SOLID ACCESS LIDS
---	PROPOSED DRY WELL W/ FRAME AND GRATE LID

GRADING EASEMENT NOTE
OWNER IS RESPONSIBLE FOR OBTAINING ALL GRADING AND UTILITY EASEMENTS FOR CONSTRUCTION OF RETAINING WALLS & UTILITY EASEMENTS.

TREE CLEARING NOTE:
NO TREES SHALL BE REMOVED FROM APRIL 1st TO OCTOBER 31st TO MITIGATE POTENTIAL HARMFUL IMPACTS TO INDIANA BAT.

REV.	BY	DATE	DESCRIPTION
1.	MM	10-13-25	PER DOT SUBMITTAL

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**PHASE III SITE PLAN FOR
ROUTE 208 & CHESTNUT DRIVE
VILLAGE OF SOUTH BLOOMING GROVE
COUNTY OF ORANGE, NEW YORK**

GRADING PLAN

SCALE
30 0 15 30 60
SCALE FEET

SCALE: 1"=30'

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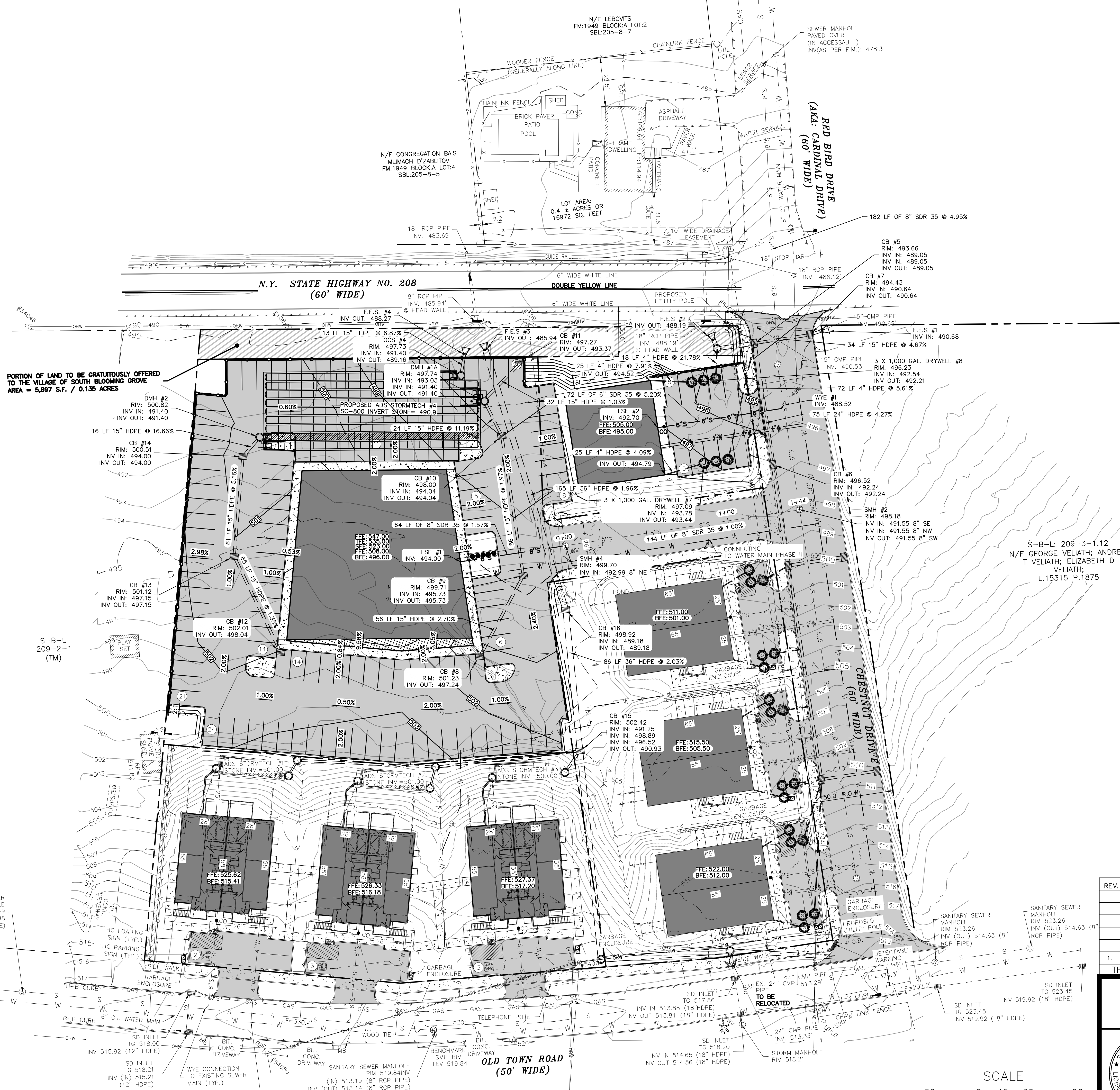
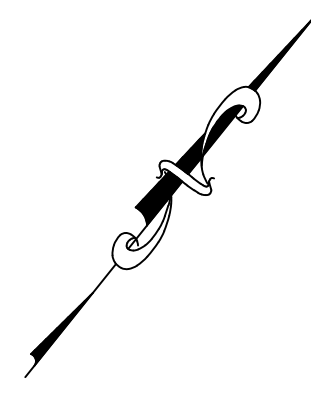
MICHAEL A. MORGANTE, P.E.
LIC. NO. 78577

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LEGEND:

	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	EXISTING EDGE OF PAVEMENT
	EXISTING PROPERTY LINE
	EXISTING ADJACENT PROPERTY LINE
	EXISTING CHAIN LINK FENCE
	EXISTING BUILDING
	EXISTING DEPRESSED CURB
	EXISTING OVERHEAD LINE
	EXISTING WATER LINE
	EXISTING GAS LINE
	EXISTING SEWER LINE
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	PROPOSED ROOF & FOOTING DRAIN TO DAYLIGHT
	PROPOSED 4\"/>
	PROPOSED 6\"/>
	PROPOSED 8\"/>
	PROPOSED SPLIT RAIL FENCE
	PROPOSED WATER MAIN RELOCATION
	PROPOSED DRAINAGE PIPE
	PROPOSED FLARED END SECTION
	PROPOSED SEWER MANHOLE
	PROPOSED DRY WELL RISER AND CAST IRON SOLID ACCESS LIDS
	PROPOSED DRY WELL W/ FRAME AND GRATE LID

PORTION OF LAND TO BE GRATUITOUSLY OFFERED TO THE VILLAGE OF SOUTH BLOOMING GROVE
AREA = 5,897 S.F. / 0.135 ACRES

S-B-L 209-2-1 (TM)

S-B-L: 209-3-1.12
N/F GEORGE VELIATH; ANDREW T VELIATH; ELIZABETH D VELIATH;
L.15315 P.1875

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REV.	BY	DATE	DESCRIPTION
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COUNTY OF ORANGE, NEW YORK

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SCALE: AS NOTED
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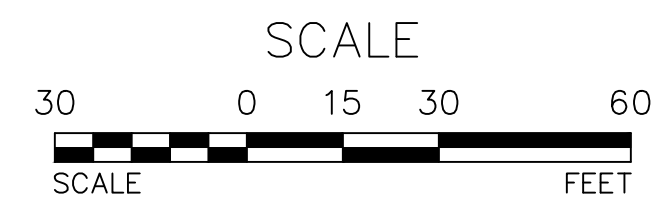
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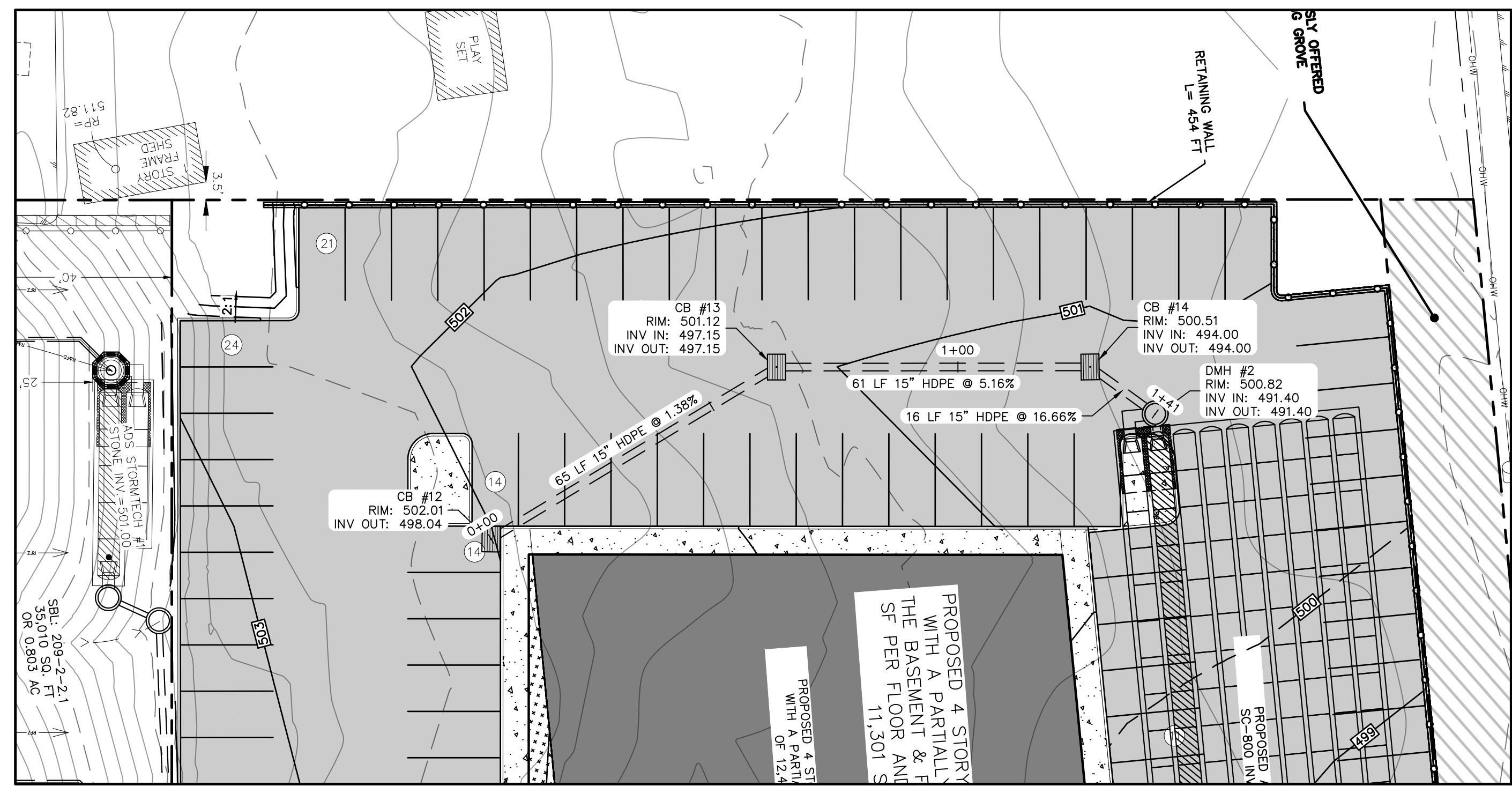
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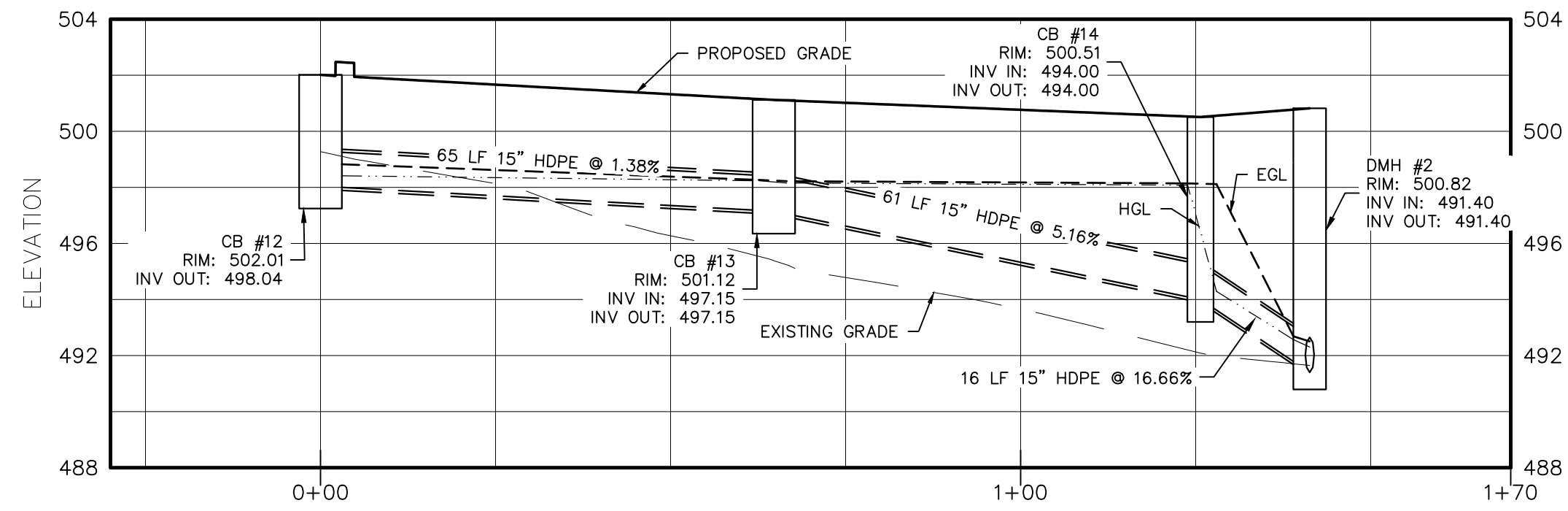
UDig NY MUST BE CONTACTED PRIOR TO ANY EXCAVATION OR DEMOLITION

UTILITY PLAN
SCALE: 1"=30'

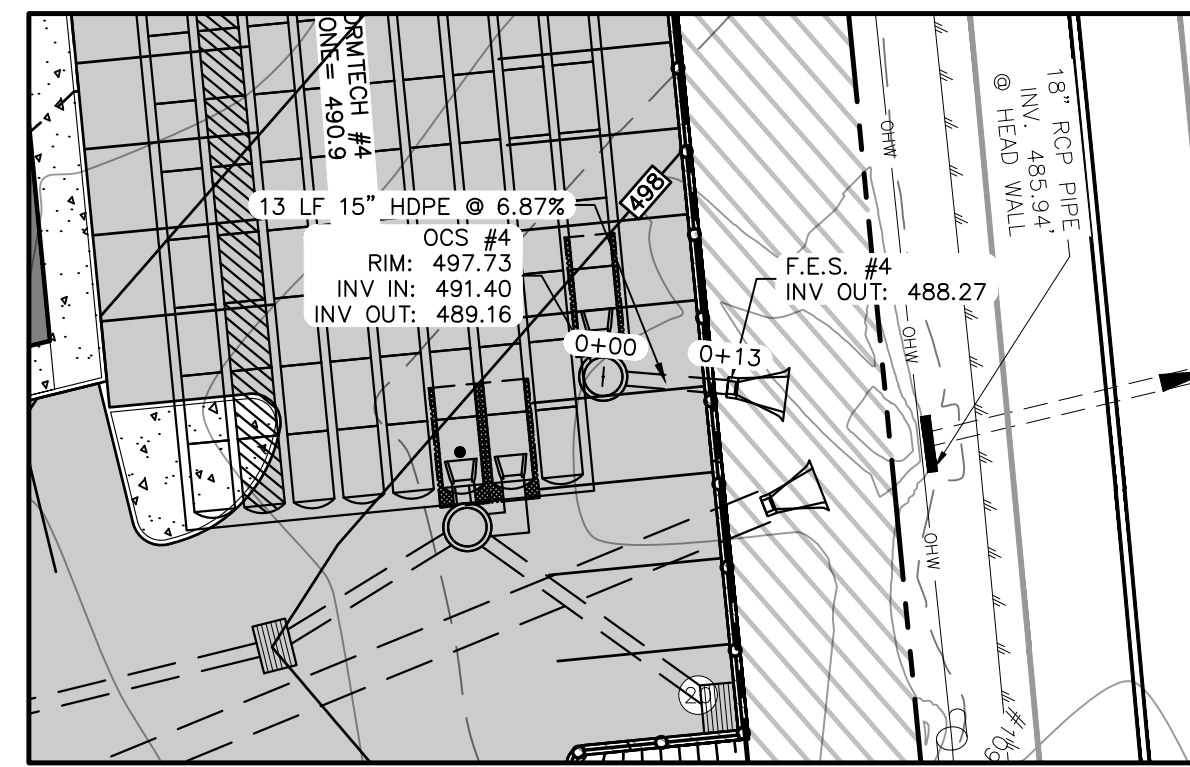




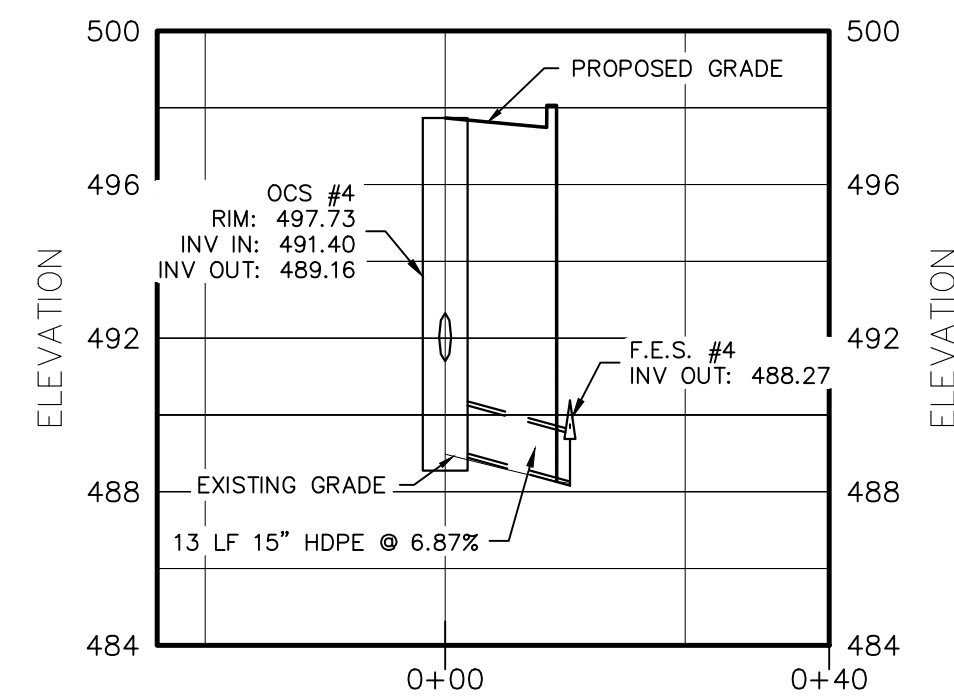
DRAINAGE #1 PLAN
SCALE: 1"=20'



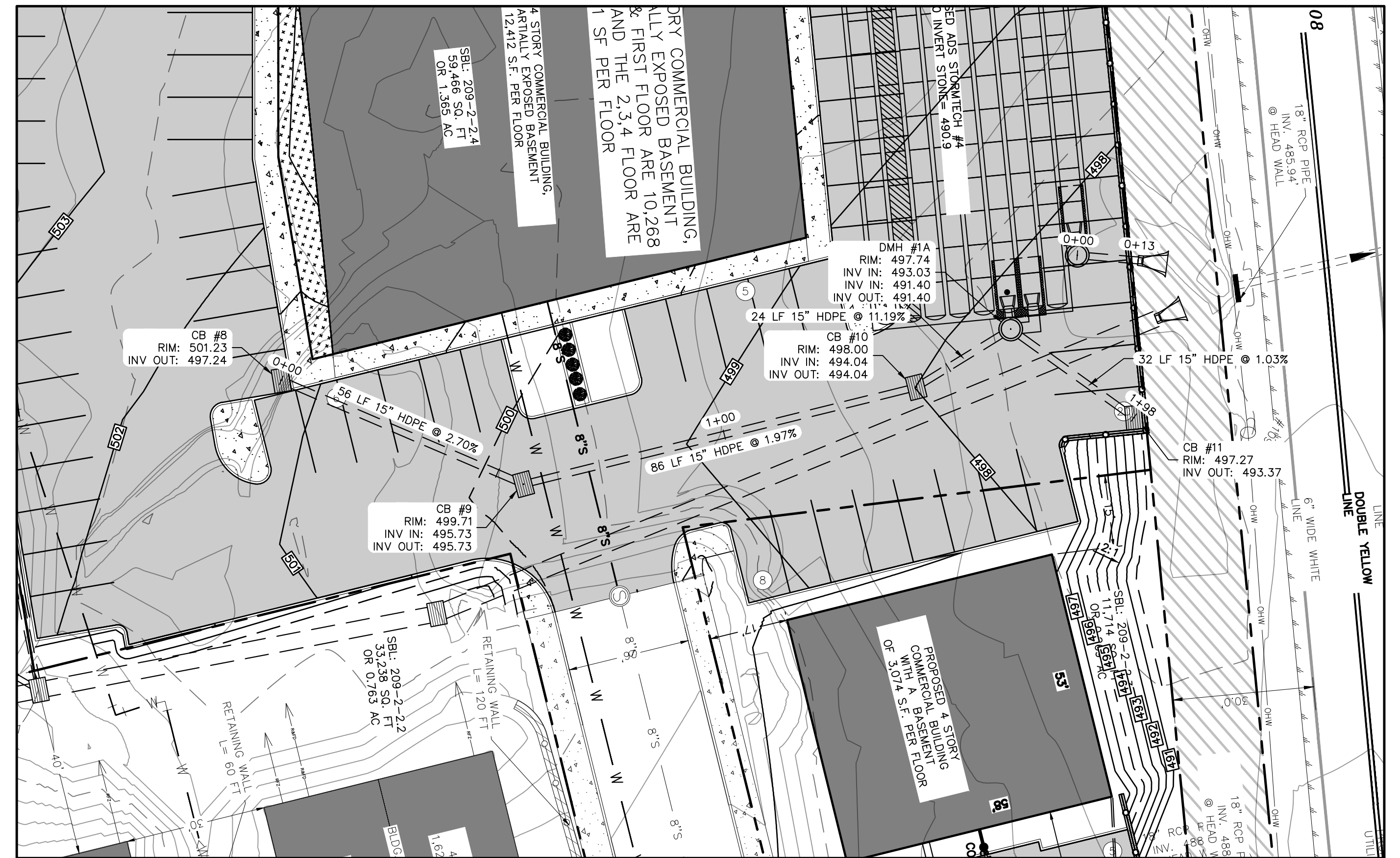
DRAINAGE #1 PROFILE
HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=5'



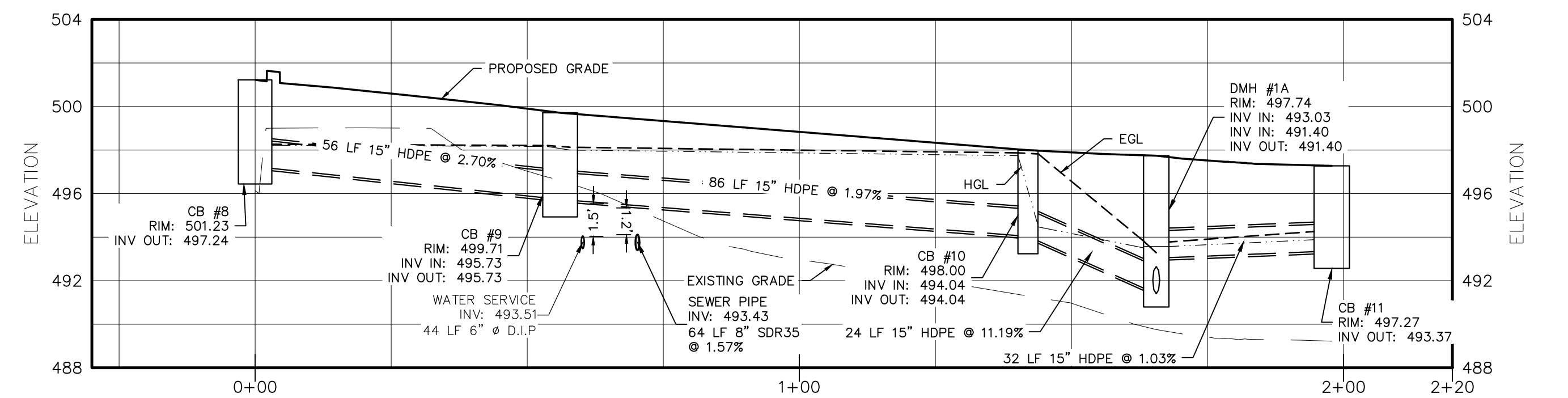
DRAINAGE #3 PLAN
SCALE: 1"=20'



DRAINAGE #3 PROFILE
HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=5'



DRAINAGE #2 PLAN
SCALE: 1"=20'



DRAINAGE #2 PROFILE
HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=5'

TREE CLEARING NOTE:
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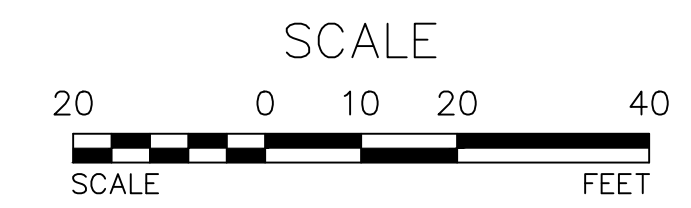
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PHASE III SITE PLAN FOR
ROUTE 208 & CHESTNUT DRIVE
VILLAGE OF SOUTH BLOOMING GROVE
COUNTY OF ORANGE, NEW YORK

DRAINAGE PROFILE

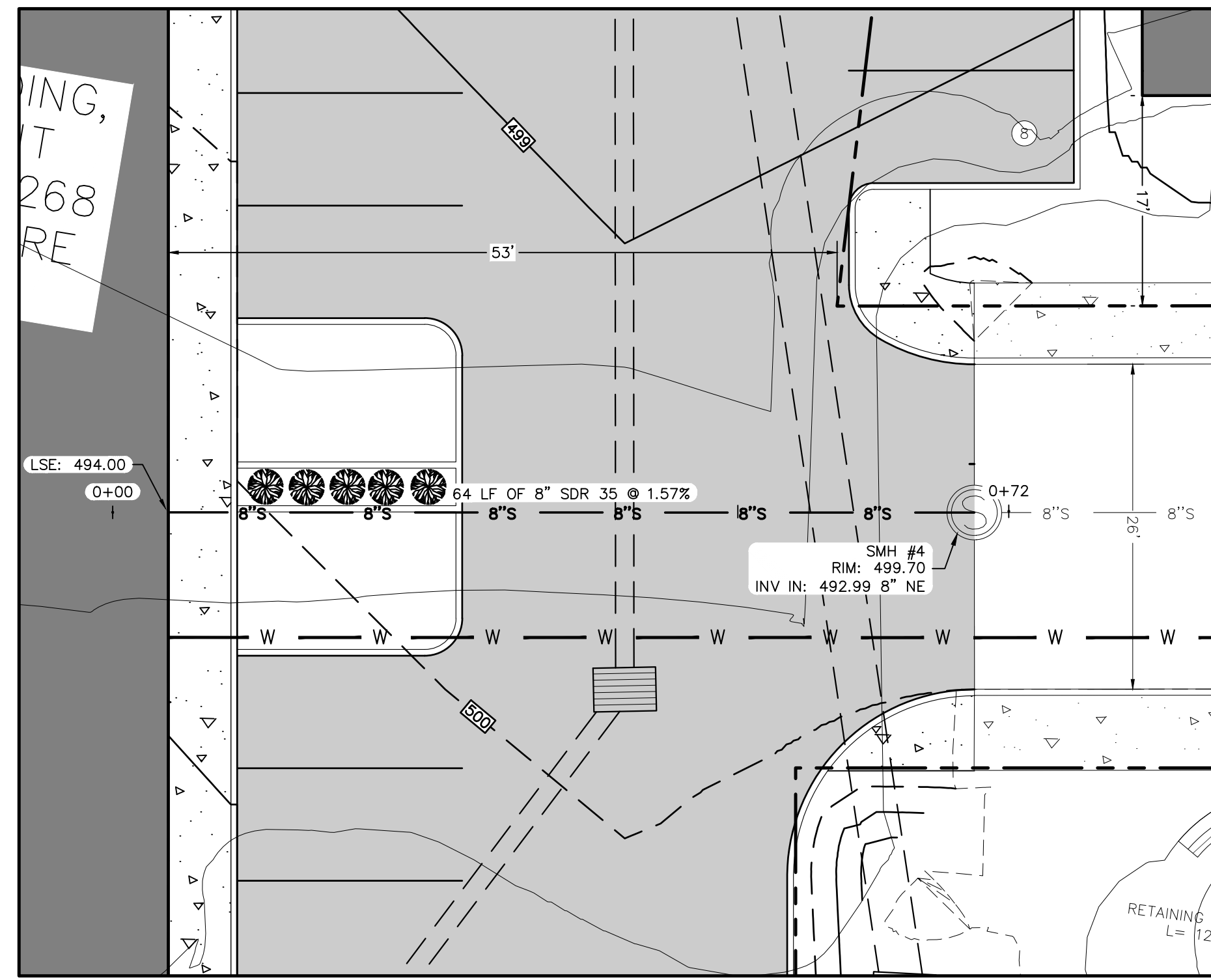
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SCALE: AS NOTED
DATE: 08-29-25
DRAWN: MM
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SHEET NO: 07 of 16



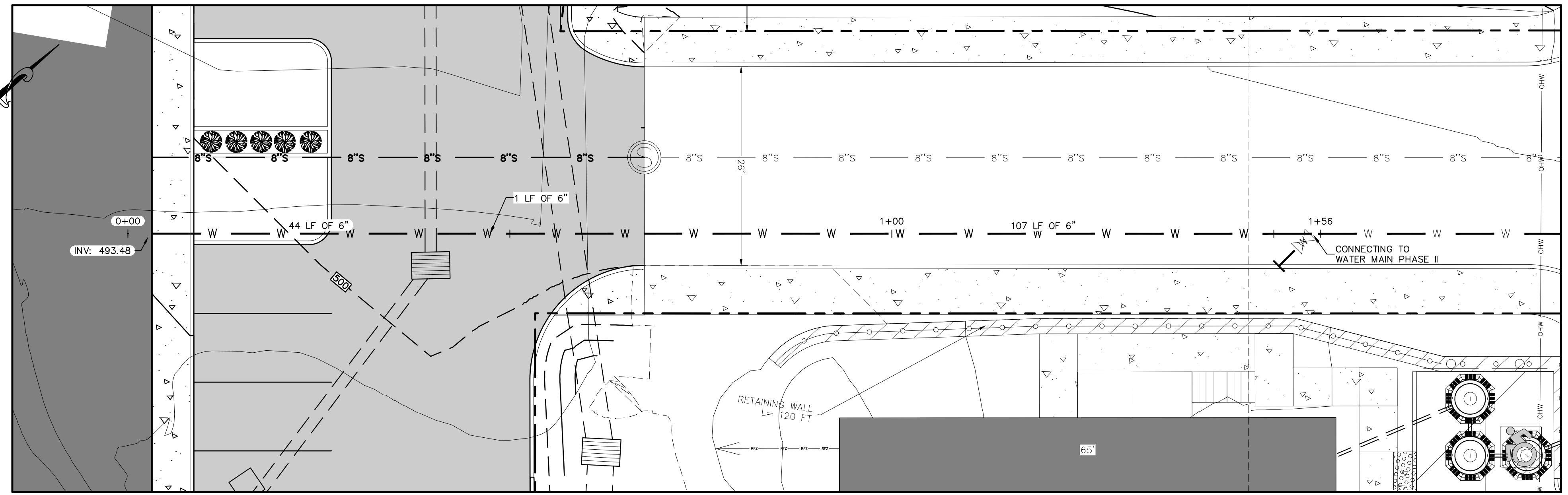
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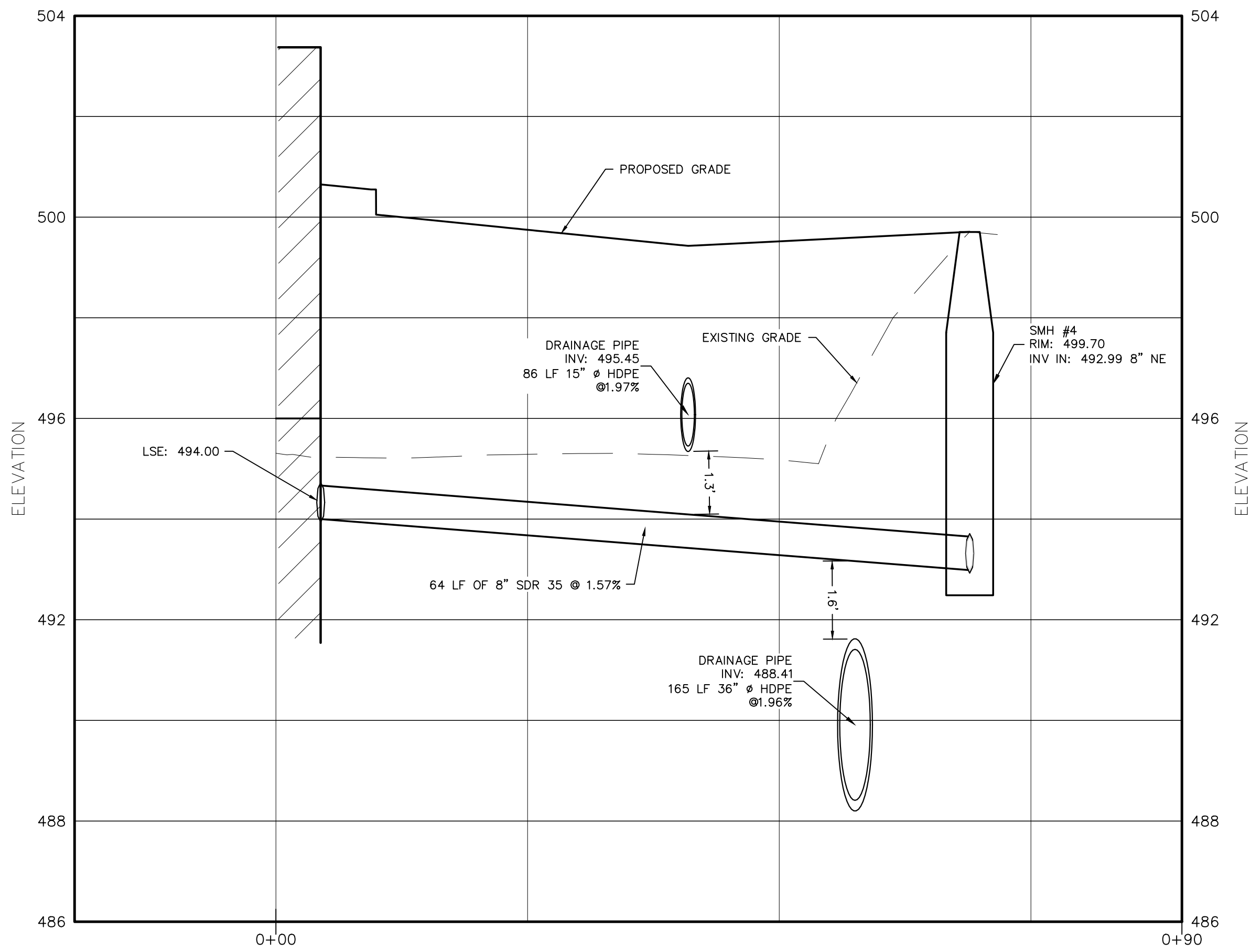
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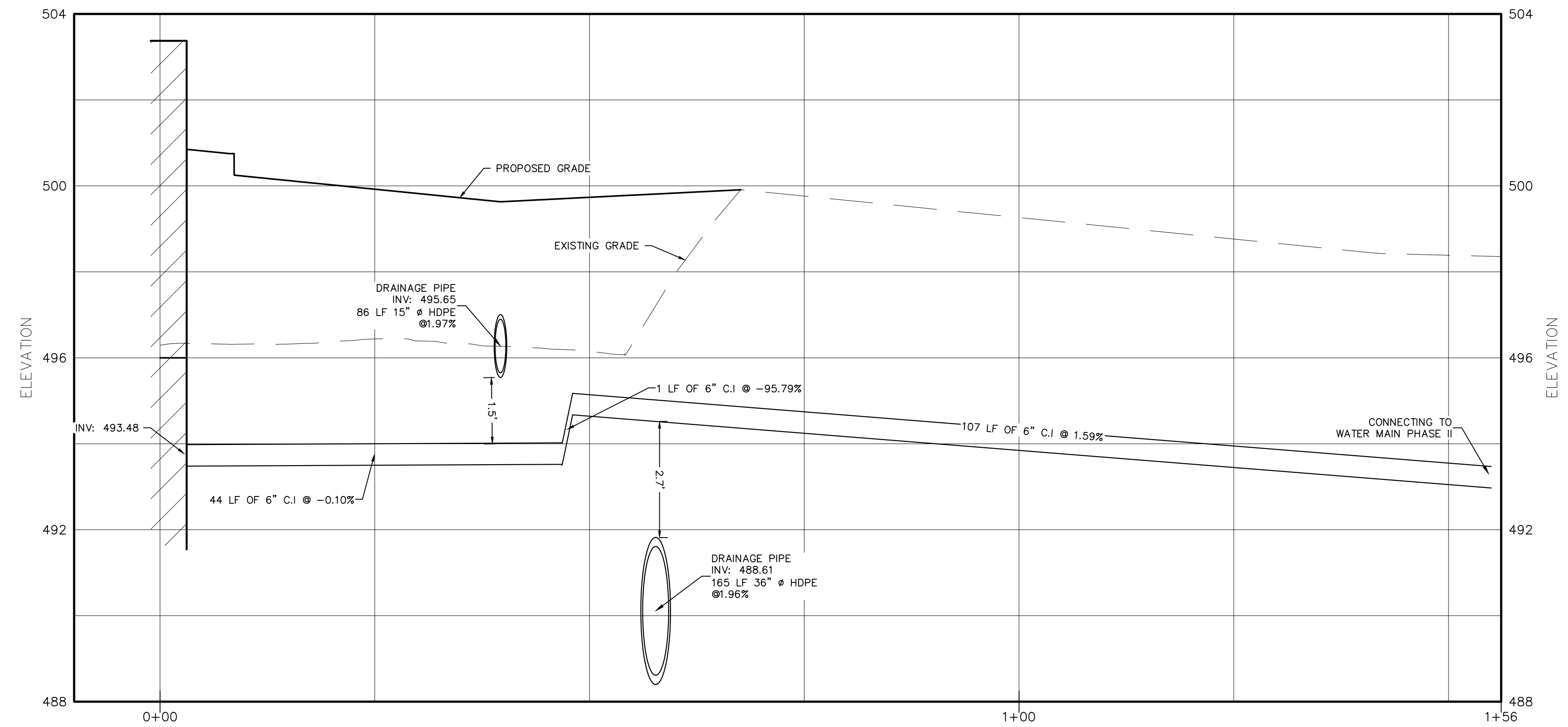
SCALE
10 0 5 10 20
SCALE FEET
SEWER PLAN
SCALE: 1"=10'



SCALE
10 0 5 10 20
SCALE FEET
WATER PLAN
SCALE: 1"=10'



SEWER MAIN PROFILE
HORIZONTAL SCALE: 1"=10'
VERTICAL SCALE: 1"=2'



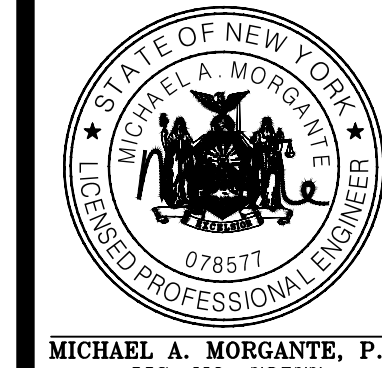
WATER MAIN PROFILE
HORIZONTAL SCALE: 1"=10'
VERTICAL SCALE: 1"=2'

- SEWER NOTES:**
- CONTRACTOR SHALL CHECK STRAIGHT ALIGNMENT OF SEWERS BY USING A LASER BEAM OR LAMPING.
 - LEDGE ROCK, BOULDERS & LARGE STONES BE REMOVED TO PROVIDE A MINIMUM CLEARANCE OF 4 INCHES BELOW AND ON EACH SIDE OF ALL PIPES.
 - DEBRIS, FROZEN MATERIAL, LARGE CLODS OR STONES, ORGANIC MATTER, OR OTHER UNSUITABLE MATERIALS SHALL BE ELIMINATED FROM USE AS BACKFILL WITHIN 2 FEET OF TOP OF PIPE.
 - ALL EXISTING AND PROPOSED WATERWORKS UNITS WITHIN 200 FEET OF THE PROPOSED SEWER SHALL BE SHOWN ON THE PLANS.
- TREE CLEARING NOTE:**
NO TREES SHALL BE REMOVED FROM APRIL 1st TO OCTOBER 31st TO MITIGATE POTENTIAL HARMFUL IMPACTS TO INDIANA BAT.

REV.	BY	DATE	DESCRIPTION
1.	MM	10-13-25	PER DOT SUBMITTAL

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PHASE III SITE PLAN FOR
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COUNTY OF ORANGE, NEW YORK

SEWER & WATER PROFILES

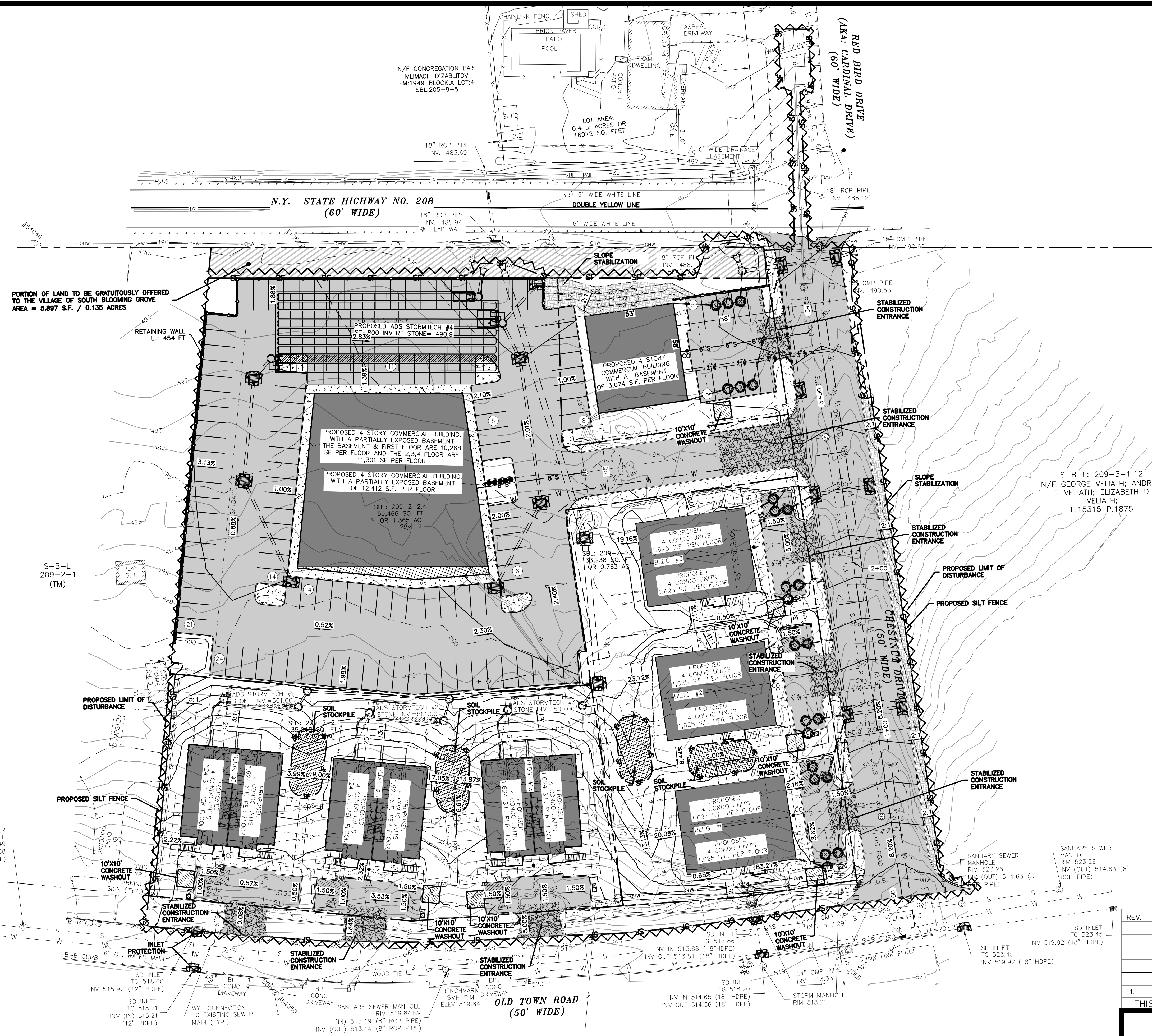
JOB#: 24-010
SCALE: AS NOTED
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CHECKED: MM
SHEET NO: 08 of 16

MICHAEL A. MORGANTE, P.E.
LIC. NO. 78577

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- LEGEND:**
- 500--- EXISTING MAJOR CONTOUR
 - EXISTING MINOR CONTOUR
 - - - - - EXISTING EDGE OF PAVEMENT
 - EXISTING PROPERTY LINE
 - - - - - EXISTING ADJACENT PROPERTY LINE
 - x x x EXISTING CHAIN LINK FENCE
 - EXISTING BUILDING
 - EXISTING DEPRESSED CURB
 - EXISTING OVERHEAD LINE
 - EXISTING WATER LINE
 - EXISTING GAS LINE
 - EXISTING SEWER LINE
 - EXISTING DRAINAGE PIPE
 - EXISTING STORM MANHOLE
 - EXISTING POLE
 - EXISTING SIGN
 - EXISTING SEWER MANHOLE
 - EXISTING FIRE HYDRANT
 - EXISTING MAIL BOX
 - EXISTING INLET
 - EXISTING GUY WIRE
 - EXISTING UTILITY BOX
 - EXISTING WATER VALVE
 - PROPOSED PAVEMENT
 - PROPOSED SIDEWALK
 - PROPOSED WALL
 - 510--- PROPOSED MAJOR CONTOURS
 - 512--- PROPOSED MINOR CONTOURS
 - PROPOSED SWALE
 - RFZ --- RFZ --- PROPOSED RPZ DRAIN TO DAYLIGHT
 - R&FD --- PROPOSED ROOF & FOOTING DRAIN TO DAYLIGHT
 - 4"W --- 4"W --- PROPOSED 4" D.I.P. WATER SERVICE
 - 6"S --- 6"S --- 6"S --- 6"S --- PROPOSED 6" SDR35 SEWER LATERAL
 - 8"S --- PROPOSED 8" SDR35 SEWER MAIN
 - --- PROPOSED SPLIT RAIL FENCE
 - --- PROPOSED LIMIT OF DISTURBANCE LINE
 - --- PROPOSED SILT FENCE LINE
 - --- STABILIZED CONSTRUCTION ENTRANCE
 - --- PROPOSED WATER MAIN RELOCATION
 - --- PROPOSED DRAINAGE PIPE
 - --- PROPOSED FLARED END SECTION
 - --- PROPOSED SEWER MANHOLE
 - --- PROPOSED DRY WELL
 - --- PROPOSED SLOPE STABILIZATION
 - --- BALES OF HAY OR STRAW (2'x2'x4')
 - --- PROPOSED DRY WELL RISER AND CAST IRON SOLID ACCESS LIDS
 - --- PROPOSED DRY WELL W/ FRAME AND GRATE LID

LIMITS OF DISTURBANCE AREA: 3.92 ACRES

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REV.	BY	DATE	DESCRIPTION
1.	MM	10-13-25	PER DOT SUBMITTAL

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PHASE III SITE PLAN FOR
ROUTE 208 & CHESTNUT DRIVE
VILLAGE OF SOUTH BLOOMING GROVE
COUNTY OF ORANGE, NEW YORK

EROSION & SEDIMENT CONTROL PLAN

JOB#: 24-010
SCALE: AS NOTED
DATE: 08-29-25
DRAWN: MM
CHECKED: MM
SHEET NO: 09 of 16

MICHAEL A. MORGANTE, P.E.
LIC. NO. 78577

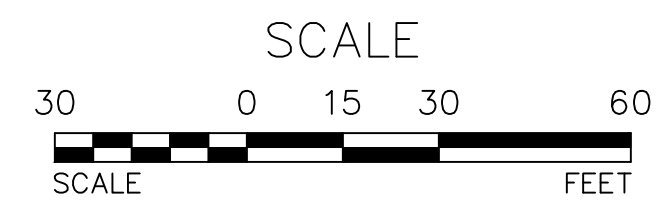
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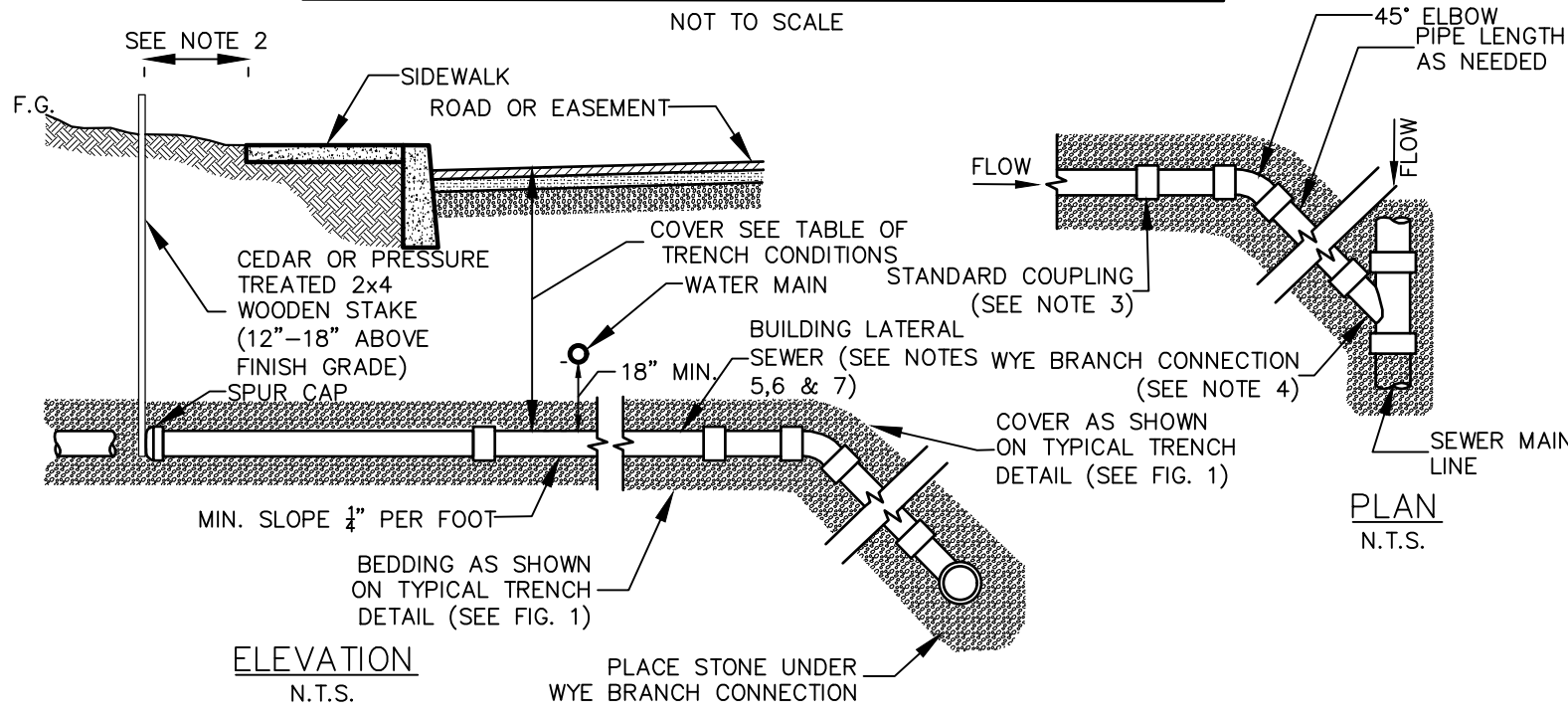
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EROSION & SEDIMENT CONTROL PLAN

SCALE: 1"=30'



BUILDING LATERAL SEWER CONNECTION



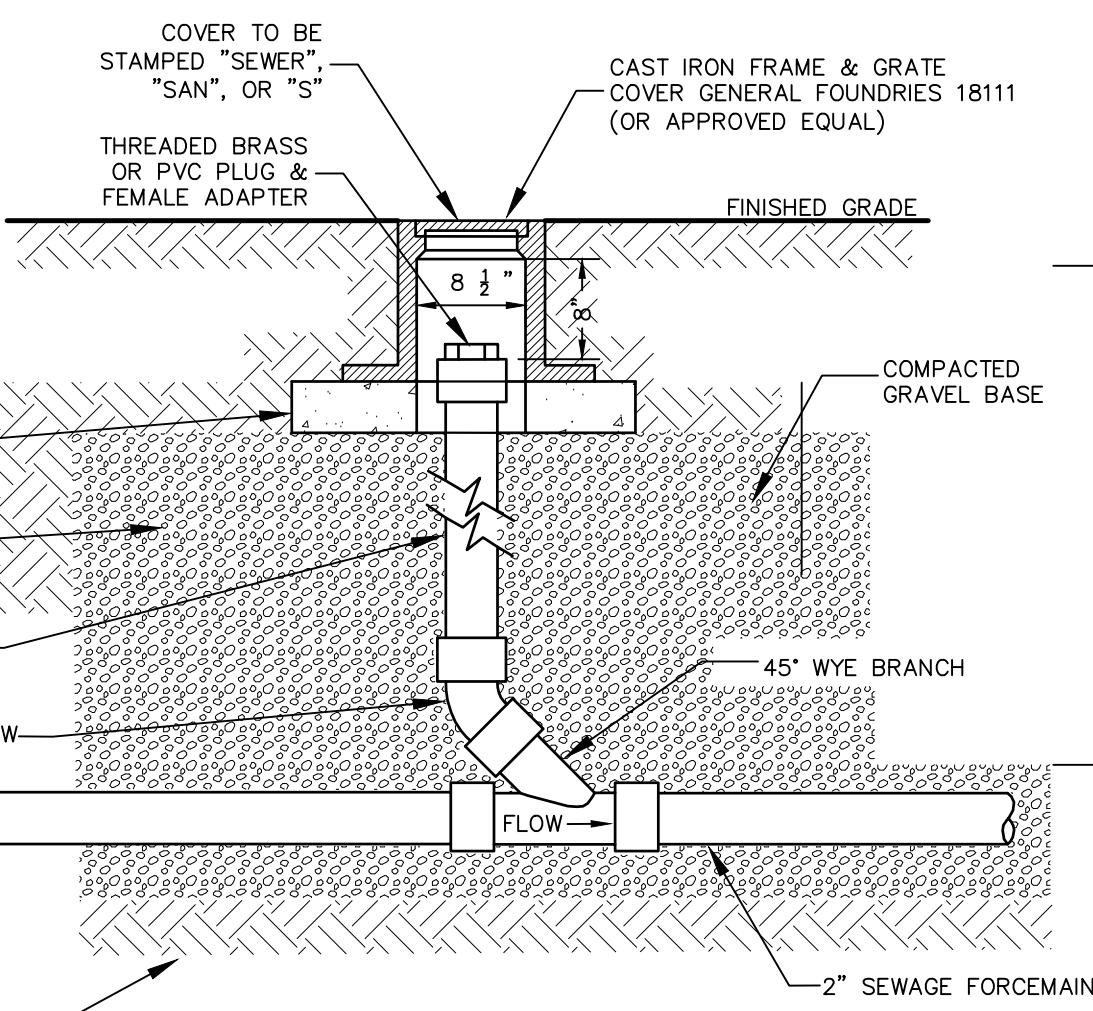
SANITARY SEWER SPECIFICATIONS (FOR BUILDING LATERAL SEWERS AND SEWER MAIN LINE):

- I) REQUIRED MAIN LINE SEWER (OR APPROVED EQUAL):
 - A) ABS-TRUSS PIPE:
 - I) PIPE: STAMPED ASTM D2680
 - II) FITTINGS: STAMPED ASTM D2680
 - III) JOINTS: SOLVENT WELD, ASTM D2235
 - B) PVC-TRUSS PIPE:
 - I) PIPE: STAMPED ASTM D2680
 - II) FITTINGS: STAMPED ASTM D2680
 - III) JOINTS: SOLVENT WELD, ASTM D2564 OR ELASTOMERIC (GASKET)
 - C) PVC - SDR 26 HEAVY WALL PIPE
 - I) PIPE (8" - 15" DIAMETER): STAMPED ASTM D3034. PIPE (18" AND GREATER DIAMETER): STAMPED ASTM F679.
 - II) FITTINGS: STAMPED ASTM D3034 OR F679.
 - III) JOINTS: SOLVENT WELD ASTM D2564 OR ELASTOMERIC GASKET.
 - D) PVC - SDR 35 SOLID WALL PIPE:
 - I) PIPE (8"-15" DIAMETER): STAMPED ASTM D3034. PIPE (18" AND GREATER DIAMETER): STAMPED ASTM F679.
 - II) FITTINGS: STAMPED ASTM D3034 OR F679.
 - III) JOINTS: BELL AND SPIGOT WITH ELASTOMERIC GASKET ASTM D3034 OR SOLVENT WELD ASTM D2564.
- II) REQUIRED 4" OR 6" (AS APPROVED) BUILDING LATERAL SEWER (OR APPROVED EQUAL):
 - A) PVC - SDR 35 SOLID WALL PIPE:
 - I) PIPE: STAMPED ASTM D3034 AND SDR 35.
 - II) FITTINGS: STAMPED SDR 35 AND ASTM D3034.
 - III) JOINTS: BELL AND SPIGOT WITH ELASTOMERIC GASKET ASTM D3034 OR SOLVENT WELD ASTM D2564.
 - B) SDR 26 HEAVY WALL PIPE:
 - I) PIPE: STAMPED ASTM D3034 AND SDR 26.
 - II) FITTINGS: STAMPED D3034 AND SDR 26.
 - III) JOINTS: BELL AND SPIGOT WITH ELASTOMERIC GASKET ASTM D3034 OR SOLVENT WELD ASTM D2564.
 - C) SDR 23.5 ABS SOLID WALL PIPE:
 - I) PIPE: STAMPED ASTM D2751 AND SDR 23.5
 - II) FITTINGS: STAMPED SDR 23.5 ASTM D2751
 - III) JOINTS: SOLVENT WELD, ASTM D2235
- III) OTHER REQUIRED PIPE MATERIALS FOR BUILDING LATERAL SEWERS AND SEWER MAIN LINE (OR APPROVED EQUAL):
 - A) CAST IRON, EXTRA HEAVY, COATED, HUB & PLAIN END, ASTM C-74 WITH ELASTOMERIC COMPRESSION GASKET (ASTM C-564)
 - B) DUCTILE IRON PIPE: CLASS 52, CEMENT LINED AND TAR COATED INSIDE AND OUT.

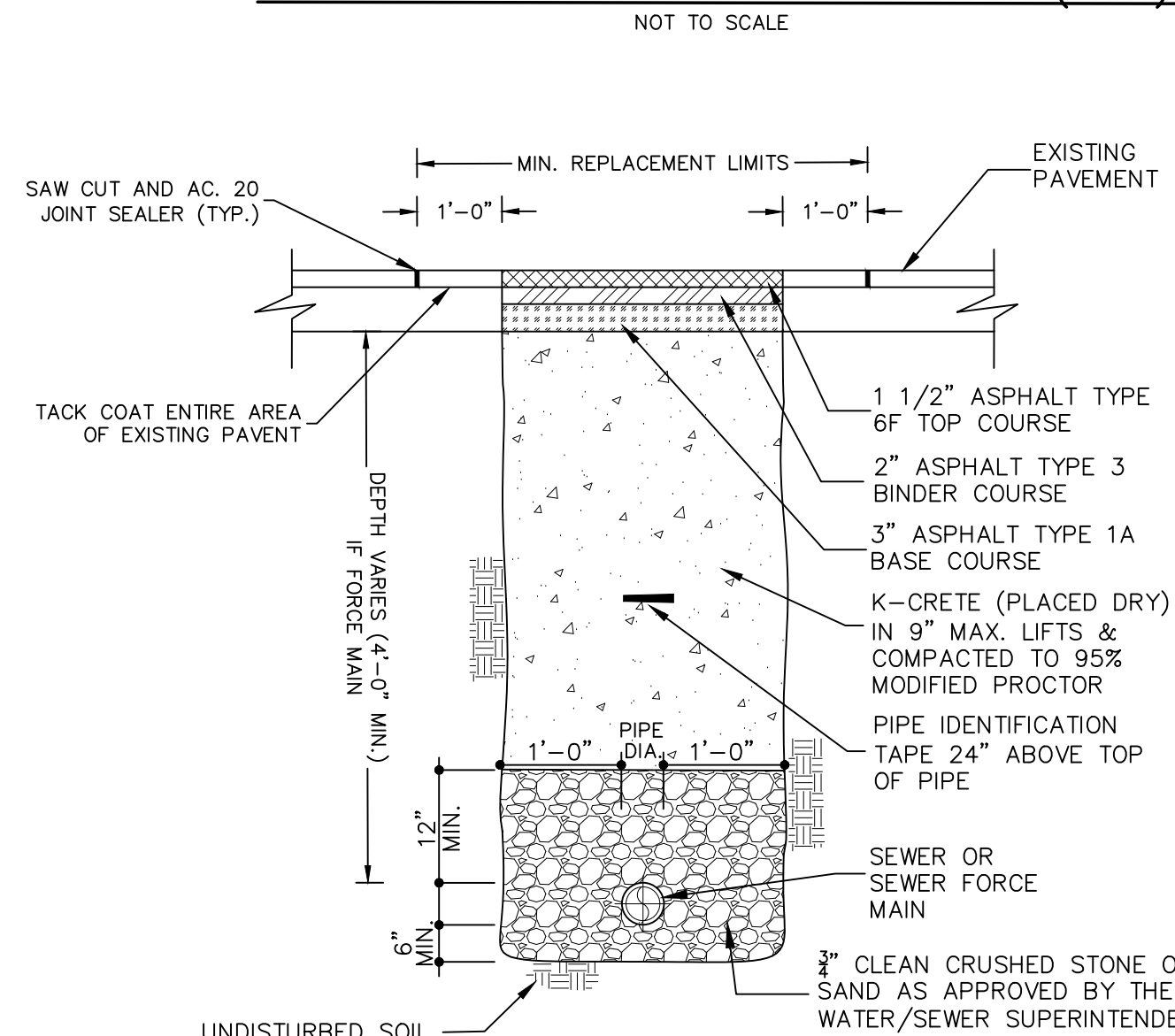
SPECIAL CONDITIONS FOR SHALLOW TRENCH CONDITIONS	
COVER	PIPE
LESS THAN 4'-0"	CLASS 52 DUCTILE IRON OR CAST IRON EXTRA HEAVY OR APPROVED EQUAL.

NOTES:

1. ALL APPROVED BUILDING LATERAL SEWER PIPE MATERIAL FOR EACH CONNECTION MADE SHALL BE CONSTRUCTED FROM THE SAME MATERIAL.
2. MINIMUM HORIZONTAL SEPARATION BETWEEN SPUR CAP AND SIDEWALK SHALL BE 2'-0". IN ALL CASES THE SPUR CAP LOCATION SHALL EXTEND A MINIMUM HORIZONTAL DISTANCE OF 2'-0" ONTO ALL BUILDING LOT PROPERTIES.
3. TRANSITION BETWEEN DIFFERENT PIPE MATERIAL (AS APPROVED) SHALL BE MADE BY INSTALLING A TYPE 1, STYLE 62 DRESSER COUPLING OR DRESSER STYLE 262 HYMAX COUPLING (OR APPROVED EQUAL).
4. WYE BRANCH CONNECTION SHALL BE A FITTING CONSTRUCTED SPECIFICALLY FOR THE INSTALLED MAIN LINE SEWER MATERIAL CLASS (OR APPROVED EQUAL).
5. THE BUILDING'S LATERAL SEWER SHOWN FROM THE MAIN LINE SOURCE WYE BRANCH CONNECTION FITTING TO THE SPUR CAP SHALL MEET THE SPECIFICATIONS SHOWN FOR II) BUILDING LATERAL SEWER.
6. 4" BUILDING LATERAL SEWER MAY BE APPROVED FOR CONSTRUCTION OF SINGLE (1) AND TWO (2) FAMILY DWELLINGS ONLY. ALL OTHER BUILDING LATERAL SEWERS (INCLUDING ALL COMMERCIAL USES) SHALL BE 6" IN DIAMETER.
7. EACH 6" BUILDING LATERAL SEWER SHALL PROVIDE SERVICE FOR NO MORE THAN TWELVE (12) EQUIVALENT LIVING UNITS, AS DETERMINED BY OCS NO. 1, UNLESS A REQUESTED DEVIATION IS APPROVED IN WRITING BY OCS NO.1.

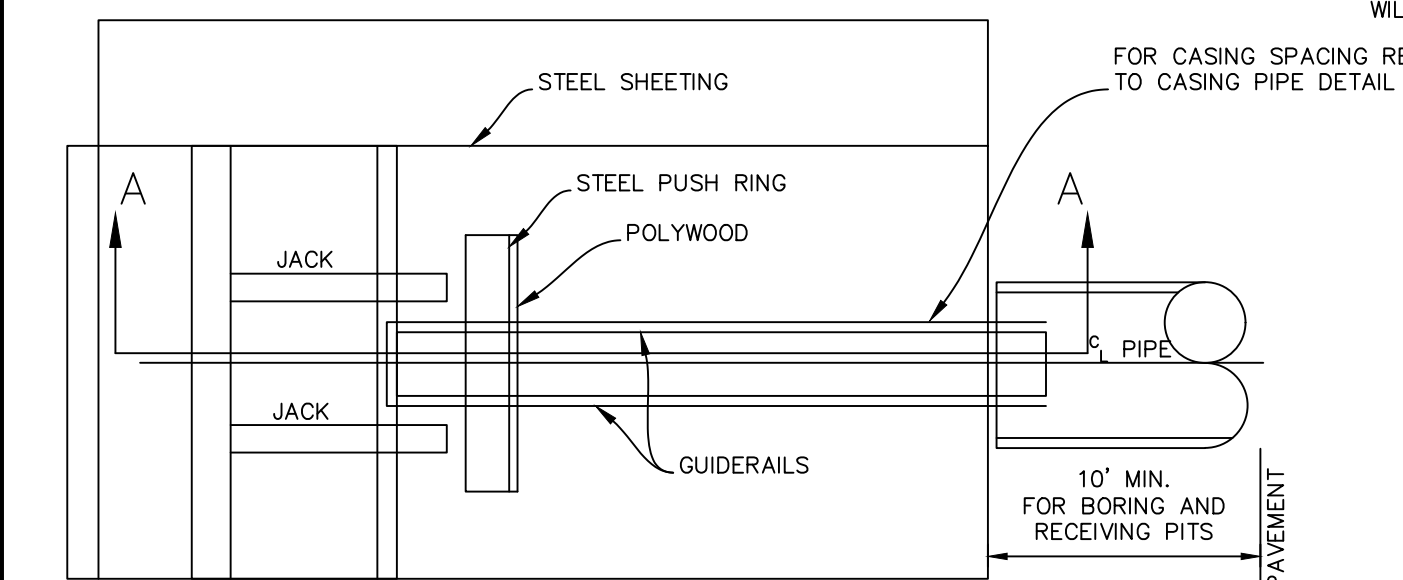
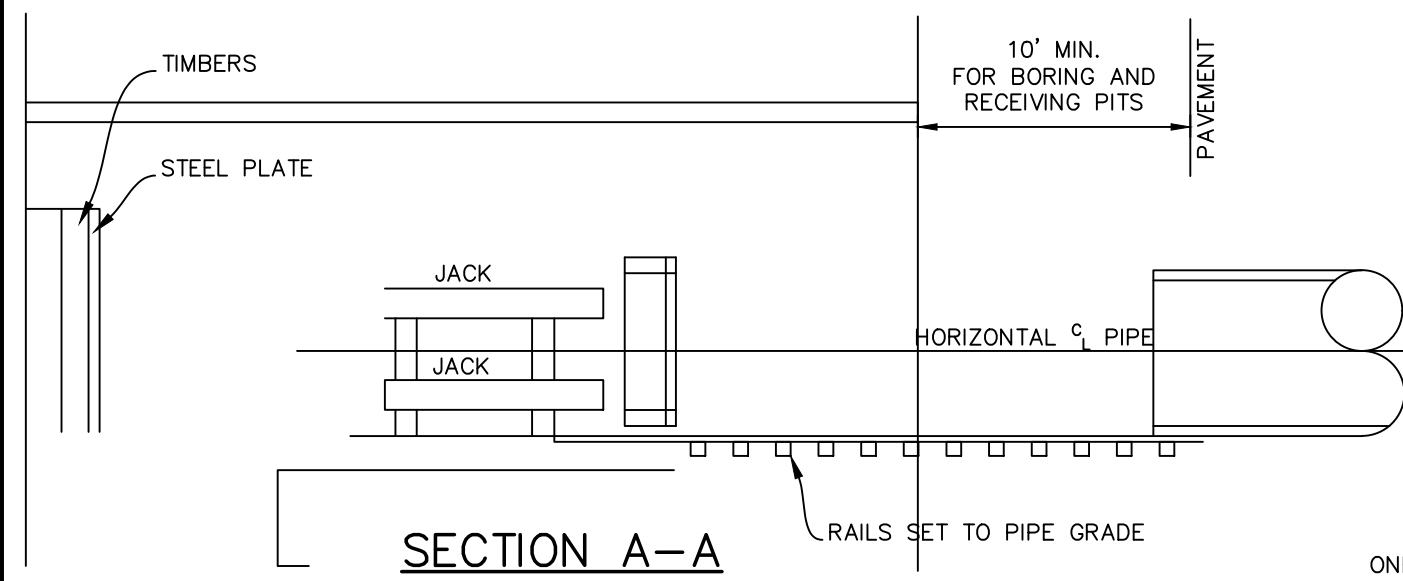


BUILDING LATERAL SEWER CLEANOUT (C.O.)



TYPICAL SEWER MAIN INSTALLATION/RESTORATION DETAIL

- NOTE:
1. PAVEMENT AND SUBBASE MATERIAL SHALL AT A MINIMUM, MATCH THE EXISTING TYPES AND THICKNESSES FOUND WITHIN ANY TOWN, COUNTY OR STATE HIGHWAY, WHICHEVER IS GREATER.
 2. ANY UTILITIES WITHIN NYS DOT RIGHT OF WAY, IF UNSTABLE OR UNSUITABLE SOIL CONDITIONS ARE ENCOUNTERED NEAR THE INVERT ELEVATION, A MINIMUM OF 1' AND A MAXIMUM OF 2' OF MATERIAL SHALL BE EXCAVATED AND REPLACED WITH SELECT GRANULAR FILL.



BORING PIT PLAN

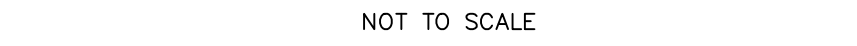
ALL UTILITY CROSSING STATE ROADS MUST BE BORING UNLESS OTHERWISE APPROVED BY THE NYS DOT. ALL UTILITY CROSSING UNDER RETAINED WALLS WHETHER BY BORING OR OPEN CUT MUST BE PLACED WITHIN SLEEVES. THE SLEEVE MUST PROJECT 6 FEET BEYOND THE EDGE OF TRAVEL LANES. SLEEVES PROVIDED FOR BORINGS MUST BE STEEL, SLEEVES PROVIDED FOR OPEN CUTS CAN BE HDPE SMOOTH BORE CORRUGATED PIPE.

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WATER & SEWER CROSSING DETAIL



WATER & SEWER HORIZONTAL SEPARATION



SEWER & WATER SEPARATION NOTES

1. WHEN IT IS IMPOSSIBLE TO MAINTAIN PROPER HORIZONTAL OR VERTICAL SEPARATION AS SHOWN, THE SEWER SHALL BE DESIGNED AND CONSTRUCTED EQUAL TO THE WATER MAIN, AND SHALL BE PRESSURE TESTED TO 150 PSI TO ASSURE WATERTIGHTNESS PRIOR TO BACKFILLING.
2. A FULL LENGTH OF BOTH PIPES CROSSING MUST BE CENTERED AT THE CROSSING.
3. BEDDING MATERIAL SHALL BE INCREASED TO 12" BELOW THE LENGTH OF WATER MAIN PIPE FOR 10' ON EITHER SIDE OF THE CROSSING.
4. TWO LAYERS OF CAUTION TRACER TAPE SHALL BE PLACED 18" MINIMUM ABOVE STORM SEWER MAINS.

NOTES

1. SEPARATION DISTANCE BETWEEN WATER MAINS AND STORM/SEWER MAINS SHALL BE 10' HORIZONTAL AND 18" AT CROSSINGS. THESE SEPARATION DISTANCES MUST BE MAINTAINED UNLESS SPECIFICALLY SHOWN AND INDICATED OTHERWISE ON THE PLANS. THE PREFERRED CROSSING OPTION IS FOR THE WATER MAIN TO BE CONSTRUCTED ABOVE STORM/SEWER MAINS.
2. SEWER MAIN INCLUDES SEWER LATERALS AND STORM DRAIN.
3. WATER MAIN INCLUDES WATER SERVICE LATERALS.
4. DEFLECT WATER MAIN IN AN ARC BENEATH THE SEWER/STORM LINE. DO NOT USE FITTINGS TO DEFLECT THE WATER MAIN.

WATER OVER SEWER SEPARATION NOTES

1. FULL LENGTH OF BOTH PIPES CROSSING MUST BE CENTERED AT THE CROSSING SO THAT PIPE JOINTS WILL BE AS FAR FROM EACH OTHER AS POSSIBLE (10' MIN.).
2. CONTRACTOR SHALL PROVIDE STRUCTURAL SUPPORT FOR EXISTING WATER MAIN OVER THE ENTIRE TRENCH WIDTH TO PREVENT DAMAGE TO THE WATER MAIN.
3. WATER TIGHT JOINTS WHERE WATERLINES ARE CROSSED ABOVE OR BELOW.

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 mam@ardenconsulting.net

Sewer Manhole Vacuum Test

Done in accordance with ASTM Designation: C1244-11 (reapproved in 2017)

Date: _____ Project: _____
 Arden Project #: _____
 Personnel Present: _____

Manhole Depth (Feet)	Diameter of Manhole (Inches)						
	30	33	36	42	48	54	60
	Minimum Test Time in Seconds						
<4	6	7	7	9	10	12	13
6	9	10	11	13	15	18	20
8	11	12	14	17	20	23	26
10	14	15	18	21	25	29	33
12	17	18	21	25	30	35	39
14	20	21	25	30	35	41	46
16	22	24	29	34	40	46	52
18	25	27	32	38	45	52	59
20	28	30	35	42	50	53	65
22	31	33	39	46	55	64	72

The test head shall be placed at the top of the manhole in accordance with the manufacturer's recommendation. A vacuum of 10 in. Hg be drawn on the manhole, the valve on the vacuum line of the test head closed, and the vacuum pump shut off. The time shall be measured for the vacuum to drop to 9 in Hg. The manhole is acceptable of the time for the vacuum reading to drop from 10 in. Hg to 9 in. Hg meets or exceeds the values indicated in the table above:

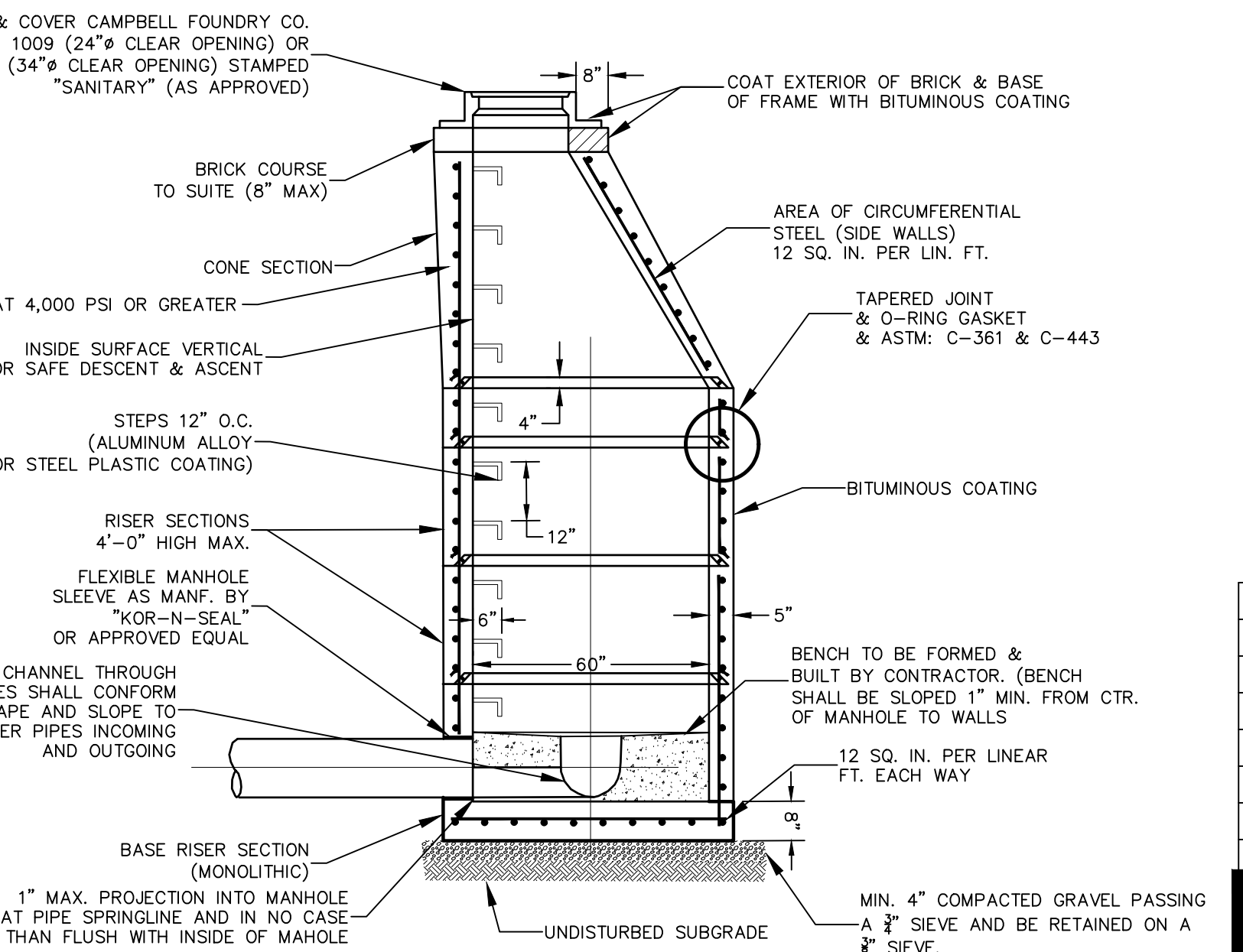
Testing Summary							
MH#	MH depth	Required Test Time per Table Above	Pass or Fail?	MH#	MH depth	Required Test Time per Table Above	Pass or Fail?

Witnessed By: _____

SEWER MANHOLE VACUUM TESTING FORM

CORRECTION OF DEFECTIVE WORK

- IF LEAKAGE EXCEEDS THE SPECIFIED AMOUNT, THE CONTRACTOR SHALL AT HIS OWN EXPENSE MAKE THE NECESSARY REPAIRS OR REPLACEMENTS REQUIRED TO PERMANENTLY REDUCE THE LEAKAGE TO WITHIN THE SPECIFIED LIMIT, AND THE TESTS SHALL BE REPEATED UNTIL THE LEAKAGE REQUIREMENT IS MET.
- ANY DEFECTS FOUND IN THE SYSTEM ARE TO BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR SO AS TO CONFORM STRICTLY TO THE SPECIFICATIONS AND TO THE SATISFACTION OF THE OWNER'S FIELD REPRESENTATIVE. ALL REPAIRS SHOWN NECESSARY BY THE TESTS ARE TO BE MADE, BROKEN OR CRACKED PIPE REPLACED, ALL DEPOSITS REMOVED, AND SANITARY SEWER LEFT TRUE TO LINE AND GRADE AND ENTIRELY CLEAN, FREE FROM LUMPS OF CEMENT, PROTRUDING GASKETS, BULKHEADS, ETC., AND READY FOR USE BEFORE FINAL ACCEPTANCE BY THE OWNER.



PRECAST REINFORCED CONCRETE MANHOLE

- MANHOLE TO MEET AASHTO DESIGNATION M-199, LATEST REVISION AND CURRENT REQUIREMENTS OF ASTM: C-478
- JOINT: LOCK TYPE WITH ROUND RUBBER GASKETS. THE WEIGHT OF EACH SECTION MUST MAKE AN INFILTRATION PROOF JOINT BY FORCING THE GASKET TIGHT.
- MANHOLE TO BE SUITABLE FOR H-20 LOADING
- MANHOLE EXTERIOR MUST BE 100% BITUMINOUS COATED.
- ALL MATERIALS SHALL CONFORM TO THE STANDARD SPECIFICATIONS, CONSTRUCTION MATERIALS, DATED 2002 (NEW YORK STATE STANDARD SPECIFICATIONS) WITH ALL ADDENDUMS. ALL FACILITIES MUST BE NEW YORK STATE DEPARTMENT OF TRANSPORTATION APPROVED.

- THE CONTRACTOR SHALL PERFORM ALL HIS OPERATIONS IN ACCORDANCE WITH THE RULES, REGULATIONS AND ORDINANCES OF THOSE GOVERNING BODIES HAVING JURISDICTION.
- THE INSTALLATION OF ALL SANITARY SEWER STRUCTURES AND PIPE WITHIN THE PUBLIC R.O.W. SHALL CONFORM TO THE REQUIREMENTS OF ALL AGENCIES HAVING JURISDICTION.
- THE REQUIREMENTS OF THE DEPARTMENT OF HEALTH AND NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION AND/OR ANY OTHER AGENCY HAVING JURISDICTION SHALL GOVERN THE HORIZONTAL AND VERTICAL SEPARATION OF WATER LINES FROM SANITARY SEWERS.
- PVC SEWER PIPE
- POLYVINYL CHLORIDE (PVC) GRAVITY SEWER AND FORCE MAIN PIPE SHALL BE SO INSTALLED AS TO NOT EXCEED A MAXIMUM DEFLECTION ACROSS THE DIAMETER OF 5.0 PERCENT. SUCH DEFLECTION SHALL BE COMPUTED BY MULTIPLYING THE AMOUNT OF DEFLECTION (NOMINAL DIAMETER LESS MINIMUM DIAMETER WHEN MEASURED) BY 100 AND DIVIDING BY THE NOMINAL DIAMETER OF THE PIPE.
- UPON COMPLETION OF A SECTION OF SEWER, INCLUDING PLACEMENT AND COMPACTION OF BACKFILL, THE CONTRACTOR SHALL MEASURE THE AMOUNT OF DEFLECTION BY PULLING A SPECIALLY DESIGNED GAUGE ASSEMBLY THROUGH THE COMPLETED SECTION. THE GAUGE ASSEMBLY SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE PIPE MANUFACTURER AND BE ACCEPTABLE TO THE OWNER'S FIELD REPRESENTATIVE.
- SHOULD THE INSTALLED PIPE FAIL TO MEET THIS REQUIREMENT, THE CONTRACTOR SHALL DO ALL WORK TO CORRECT THE PROBLEM, TO THE SATISFACTION OF THE OWNER'S FIELD REPRESENTATIVE, WITHOUT ADDITIONAL COMPENSATION.
- LEAKAGE TESTS
- GENERAL REQUIREMENTS
- THE CONTRACTOR SHALL TEST THE COMPLETED SEWERS, INCLUDING MANHOLES AND LATERALS, FOR LEAKAGE BY INFILTRATION, EXFILTRATION OR LOW-PRESSURE AIR EXFILTRATION TESTS AS SPECIFIED HEREIN. THE TESTS WILL BE CONDUCTED AS APPROVED BY THE OWNER'S FIELD REPRESENTATIVE. THE CONTRACTOR SHALL FURNISH ALL NECESSARY EQUIPMENT, MATERIALS AND LABOR FOR PERFORMING THE TESTS AS SPECIFIED. ALL SEWER PRESSURE PIPE LEAK TESTING SHALL BE PERFORMED IN ACCORDANCE WITH PART 4.0 OF THE "WATER DISTRIBUTION SYSTEM, 02660" SPECIFICATIONS.
- THE CONTRACTOR SHALL NOTIFY THE OWNER'S FIELD REPRESENTATIVE AT LEAST 48 HOURS PRIOR TO THE START OF TESTING. TESTING SHALL ONLY BE PERFORMED IN THE PRESENCE OF THE OWNER'S FIELD REPRESENTATIVE.
- SECTIONS OF PIPE TESTED FOR INFILTRATION AND EXFILTRATION PRIOR TO COMPLETION OF THE PROJECT SHALL BE SUBJECT TO ADDITIONAL LEAKAGE TESTS, IF WARRANTED IN THE OPINION OF THE OWNER'S FIELD REPRESENTATIVE, PRIOR TO ACCEPTANCE OF THE PROJECT.
- INFILTRATION AND EXFILTRATION TESTING
- THE TEST LENGTH INTERVALS FOR EITHER TYPE OF LEAKAGE TEST SHALL BE APPROVED BY THE OWNER'S FIELD REPRESENTATIVE, BUT IN NO EVENT SHALL THEY EXCEED ONE THOUSAND (1000) FEET. IN THE CASE OF SEWERS LAID ON STEEP GRADES, THE LENGTH OF LINE TO BE TESTED BY EXFILTRATION AT ANY ONE TIME MAY BE LIMITED BY THE MAXIMUM ALLOWABLE INTERNAL PRESSURE ON THE PIPE AND JOINTS AT THE LOWER END OF THE LINE.
- THE TEST PERIOD, WHEREIN THE MEASUREMENTS ARE TAKEN SHALL NOT BE LESS THAN FOUR (4) HOURS IN EITHER TYPE OF TEST.
- DEPENDING ON FIELD CONDITIONS, THE FOLLOWING TESTS FOR LEAKAGE SHALL BE EMPLOYED:
- INFILTRATION TEST
- THIS TEST MAY BE USED ONLY WHEN GROUND WATER LEVELS ARE AT LEAST FIVE (5) FEET ABOVE THE TOP OF THE PIPE FOR THE ENTIRE LENGTH OF THE SECTION TO BE TESTED DURING THE ENTIRE PERIOD OF THE TEST. GROUND WATER LEVELS MAY BE MEASURED IN AN OPEN TRENCH OR IN STANDPIPES PREVIOUSLY PLACED IN BACKFILLED TRENCHES DURING THE BACKFILLING OPERATIONS. WHEN STANDPIPES ARE INSTALLED IN THE BACKFILL FOR GROUND WATER MEASUREMENT, THE LOWER ENDS OF THESE SHALL BE SATISFACTORILY EMBEDDED IN A MASS OF CRUSHED STONE OR GRAVEL TO MAINTAIN FREE PERCOLATION AND DRAINAGE. INFILTRATION THROUGH JOINTS SHALL BE MEASURED BY USING A WATERTIGHT WEIR OR ANY OTHER APPROVED DEVICE FOR VOLUMETRIC MEASUREMENT INSTALLED AT THE LOWER END OF THE SECTION UNDER TEST.
- EXFILTRATION TEST
- THIS TEST CONSISTS OF FILLING THE PIPE WITH WATER TO PROVIDE A HEAD OF AT LEAST FIVE (5) FEET ABOVE THE TOP OF THE PIPE OR FIVE (5) FEET ABOVE GROUND WATER, WHICHEVER IS HIGHER, AT THE HIGHEST POINT OF THE PIPE LINE UNDER TEST, AND THEN MEASURING THE LOSS OF WATER FROM THE LINE BY THE AMOUNT WHICH MUST BE ADDED TO MAINTAIN THE ORIGINAL LEVEL. IN THIS TEST THE LINE TESTED REMAIN FILLED WITH WATER FOR AT LEAST TWENTY FOUR (24) HOURS PRIOR TO THE TAKING OF MEASUREMENTS. EXFILTRATION SHALL BE MEASURED BY THE DROP OF WATER LEVEL IN A CLOSED-END STANDPIPE OR IN ONE OF THE SEWER MANHOLES AVAILABLE FOR CONVENIENT MEASURING.
- WHEN A STANDPIPE AND PLUG ARRANGEMENT IS USED IN THE UPPER MANHOLE OF A LINE UNDER TEST, THERE MUST BE SOME POSITIVE METHOD OF RELEASING ENTRAPPED AIR IN THE SEWER PRIOR TO TAKING MEASUREMENTS.
- LEAKAGE REQUIREMENTS
- THE TOTAL LEAKAGE OF ANY SECTION TESTED SHALL NOT EXCEED THE RATE OF 50 GALLONS PER DAY PER INCH OF NOMINAL PIPE DIAMETER. FOR PURPOSES OF DETERMINING THE MAXIMUM ALLOWABLE LEAKAGE, MANHOLES SHALL BE CONSIDERED AS SECTIONS OF 48 INCH DIAMETER PIPE, FIVE (5) FEET LONG, AND THE EQUIVALENT LEAKAGE ALLOWANCE SHALL BE 2.25 GALLONS PER MANHOLE PER 24 HOURS.
- LOW-PRESSURE AIR EXFILTRATION TESTING
- THE SEWER MAINS AND/OR LATERALS SHALL BE TESTED FOR LEAKAGE BY THE USE OF LOW-PRESSURE AIR AS SPECIFIED HEREINAFTER AND AS APPROVED BY THE OWNER'S FIELD REPRESENTATIVE. THE TEST LENGTH SHALL NOT EXCEED ONE (1) INTERVAL OF PIPE BETWEEN TWO (2) MANHOLES. AIR TEST PROCEDURES MAY BE DANGEROUS AND THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT BLOWOUTS.
- AFTER THE PIPE HAS BEEN BACKFILLED AND CLEANED, PNEUMATIC PLUGS SHALL BE PLACED IN THE LINE AT EACH MANHOLE AND INFLATED TO 25 PSI. LOW-PRESSURE AIR SHALL BE INTRODUCED INTO THIS SEALED LINE UNTIL THE INTERNAL AIR PRESSURE REACHES 4 PSI GREATER THAN THE AVERAGE BACK PRESSURE OF ANY GROUND WATER THAT MAY BE OVER THE PIPE. AT LEAST TWO (2) MINUTES SHALL BE ALLOWED FOR THE AIR PRESSURE TO STABILIZE.
- AFTER THE STABILIZATION PERIOD (3.5 PSI MINIMUM PRESSURE IN THE PIPE), THE PORTION OF LINE BEING TESTED SHALL BE ACCEPTABLE IF THE TIME REQUIRED IN MINUTES FOR THE PRESSURE TO DECREASE FROM 3.5 TO 3.0 PSI (GREATER THAN THE AVERAGE BACK PRESSURE OF ANY GROUND WATER THAT MAY BE OVER THE PIPE) IS NOT LESS THAN THE TIME INDICATED IN THE FOLLOWING TABLE:

PIPE SIZE (IN.)	TIME (MIN.)
4	2-1/2
6	4
8	6
10	6-1/2
12	7-1/2

- CORRECTION OF DEFECTIVE WORK
- IF LEAKAGE EXCEEDS THE SPECIFIED AMOUNT, THE CONTRACTOR SHALL AT HIS OWN EXPENSE MAKE THE NECESSARY REPAIRS OR REPLACEMENTS REQUIRED TO PERMANENTLY REDUCE THE LEAKAGE TO WITHIN THE SPECIFIED LIMIT, AND THE TESTS SHALL BE REPEATED UNTIL THE LEAKAGE REQUIREMENT IS MET.
- ANY DEFECTS FOUND IN THE SYSTEM ARE TO BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR SO AS TO CONFORM STRICTLY TO THE SPECIFICATIONS AND TO THE SATISFACTION OF THE OWNER'S FIELD REPRESENTATIVE. ALL REPAIRS SHOWN NECESSARY BY THE TESTS ARE TO BE MADE, BROKEN OR CRACKED PIPE REPLACED, ALL DEPOSITS REMOVED, AND SANITARY SEWER LEFT TRUE TO LINE AND GRADE AND ENTIRELY CLEAN, FREE FROM LUMPS OF CEMENT, PROTRUDING GASKETS, BULKHEADS, ETC., AND READY FOR USE BEFORE FINAL ACCEPTANCE BY THE OWNER.

TREE CLEARING NOTE:

NO TREES SHALL BE REMOVED FROM APRIL 1st TO OCTOBER 31st TO MITIGATE POTENTIAL HARMFUL IMPACTS TO INDIANA BAT.

REV.	BY	DATE	DESCRIPTION
1.	MM	10-13-25	PER DOT SUBMITTAL

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PHASE III SITE PLAN FOR
 ROUTE 208 & CHESTNUT DRIVE
 VILLAGE OF SOUTH BLOOMING GROVE
 COUNTY OF ORANGE, NEW YORK

SANITARY DETAILS

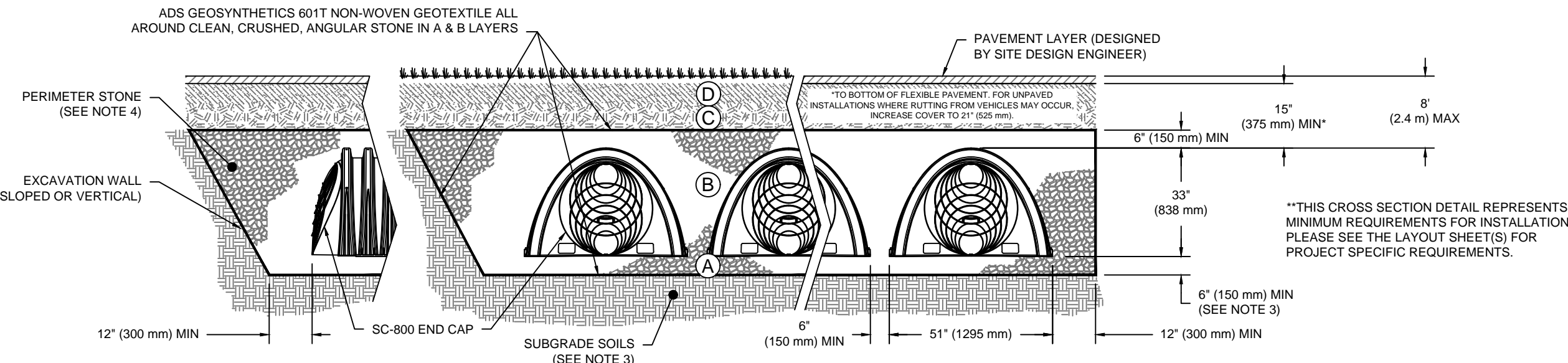
JOB#: 24-010
 SCALE: AS NOTED
 DATE: 08-29-25
 DRAWN: MM
 CHECKED: MM
 SHEET NO. 111 of 116

MICHAEL A. MORGANTTE, P.E.
 Lic. No. 78577

ACCEPTABLE FILL MATERIALS: STORMTECH SC-800 CHAMBER SYSTEMS

MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 15" (375 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	AASHTO M14S ¹ A-1, A-2-4, A-3 OR AASHTO M43 ² 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN).
B	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	AASHTO M43 ² 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
A	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	AASHTO M43 ² 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. ^{2,3}

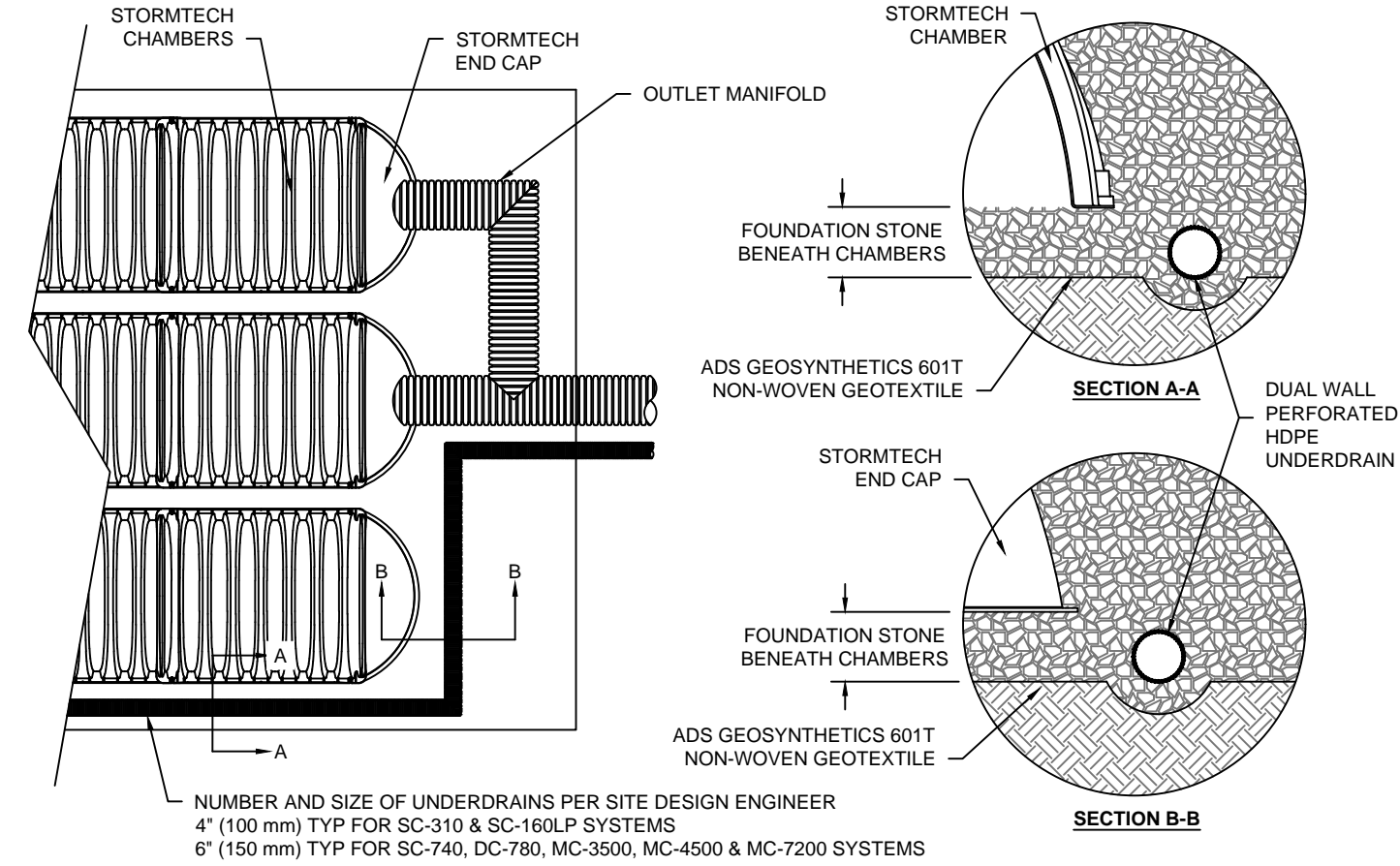
PLEASE NOTE:
 1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
 2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) MAX LIFTS USING TWO FULL COVERSAGES WITH A VIBRATORY COMPACTOR.
 3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
 4. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.
 5. WHERE RECYCLED CONCRETE AGGREGATE IS USED IN LAYERS 'A' OR 'B' THE MATERIAL SHOULD ALSO MEET THE ACCEPTABILITY CRITERIA OUTLINED IN TECHNICAL NOTE 6.20 "RECYCLED CONCRETE STRUCTURAL BACKFILL".



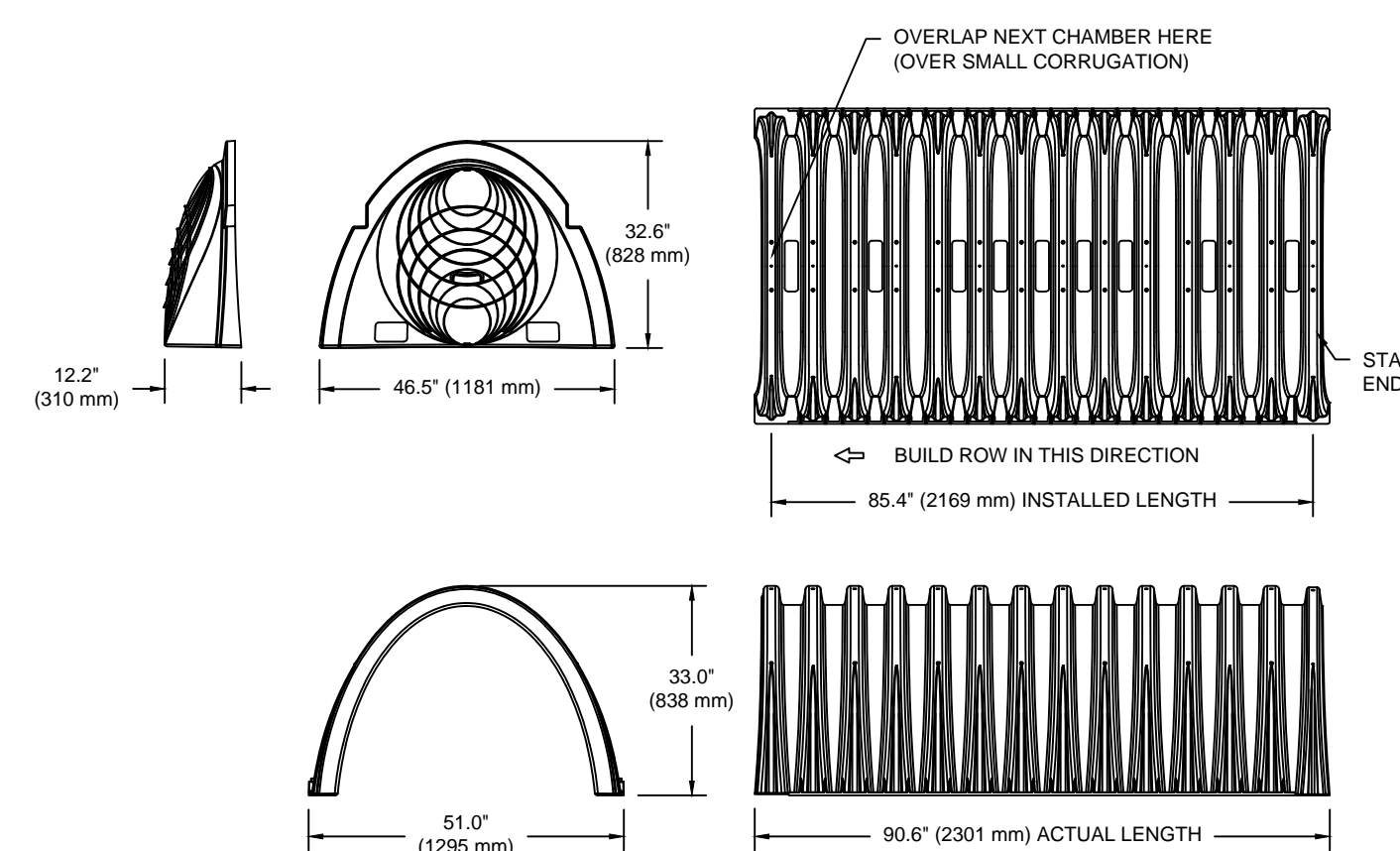
NOTES:

- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- SC-800 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS. REFERENCE STORMTECH DESIGN MANUAL FOR BEARING CAPACITY GUIDANCE.
- PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
- REQUIREMENTS FOR HANDLING AND INSTALLATION:
 - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
 - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2".
 - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 550 LBS/FT². AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

UNDERDRAIN DETAIL
NTS



SC-800 TECHNICAL SPECIFICATION
NTS



NOMINAL CHAMBER SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	51.0" X 33.0" X 85.4"	(1295 mm X 838 mm X 2169 mm)
CHAMBER STORAGE	50.6 CUBIC FEET	(1.43 m ³)
MINIMUM INSTALLED STORAGE*	81.0 CUBIC FEET	(2.29 m ³)
WEIGHT	81.8 lbs.	(37.1 kg)

NOMINAL END CAP SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	46.5" X 32.6" X 10.5"	(1181 mm X 828 mm X 267 mm)
END CAP STORAGE	3.4 CUBIC FEET	(0.09 m ³)
MINIMUM INSTALLED STORAGE**	15.4 CUBIC FEET	(0.43 m ³)
WEIGHT	15.7 lbs.	(7.1 kg)

* ASSUMES 6" (152 mm) STONE ABOVE, BELOW, AND BETWEEN ROWS, 12" (305 mm) BEYOND END CAPS
 **ASSUMES 6" (152 mm) STONE ABOVE AND BELOW END CAPS, 6" (152 mm) BETWEEN ROWS, 12" (305 mm) BEYOND END CAPS

PRE-CORED HOLES AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "BPC"
 PRE-CORED HOLES AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "TPC"

PART #	STUB	B	C
SC800EP06TPC	6" (150 mm)	21.4" (544 mm)	---
SC800EP06BPC	---	---	0.9" (23 mm)
SC800EP08TPC	8" (200 mm)	19.2" (488 mm)	---
SC800EP08BPC	---	---	1.0" (25 mm)
SC800EP10TPC	10" (250 mm)	17.0" (432 mm)	---
SC800EP10BPC	---	---	1.2" (30 mm)
SC800EP12TPC	12" (300 mm)	14.4" (366 mm)	---
SC800EP12BPC	---	---	1.6" (41 mm)
SC800EP15TPC	15" (375 mm)	11.3" (287 mm)	---
SC800EP15BPC	---	---	1.7" (43 mm)
SC800EP18TPC	18" (450 mm)	8.0" (203 mm)	---
SC800EP18BPC	---	---	2.0" (51 mm)
SC800EP24BPC	24" (600 mm)	---	2.3" (58 mm)
SC800EPE	NONE	---	SOLID END CAP

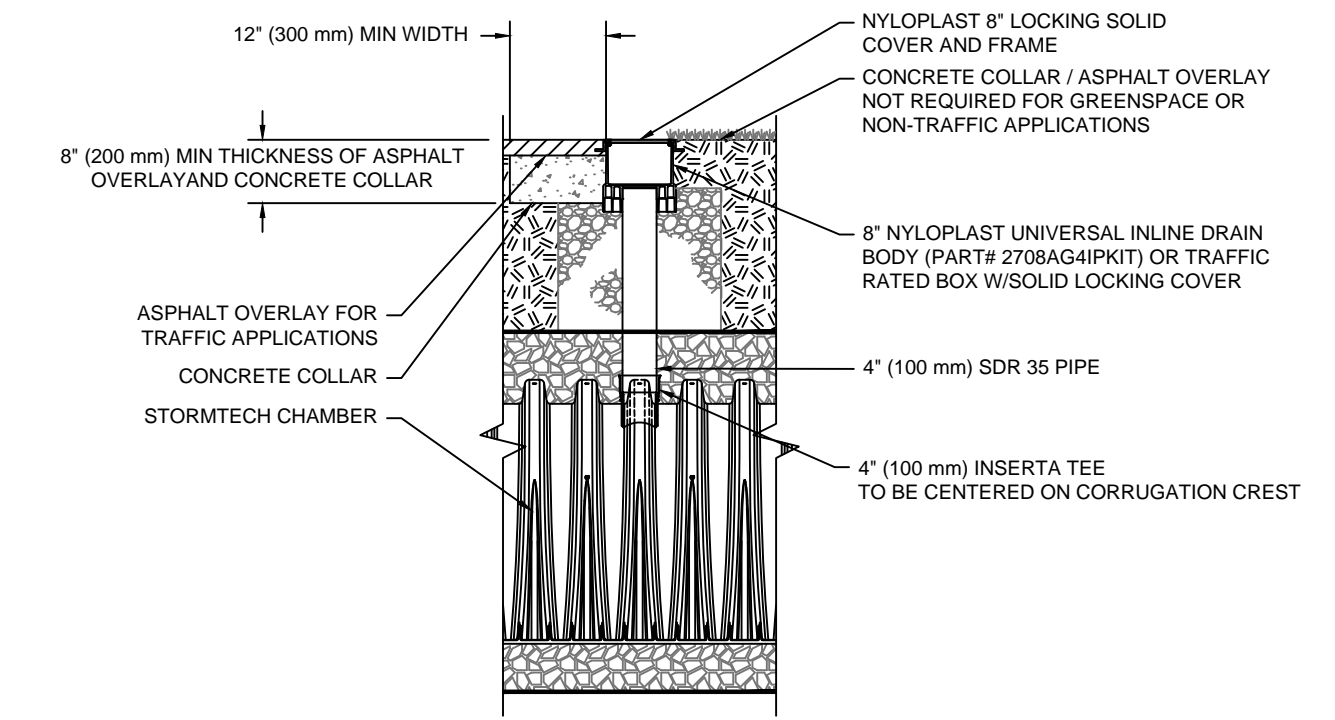
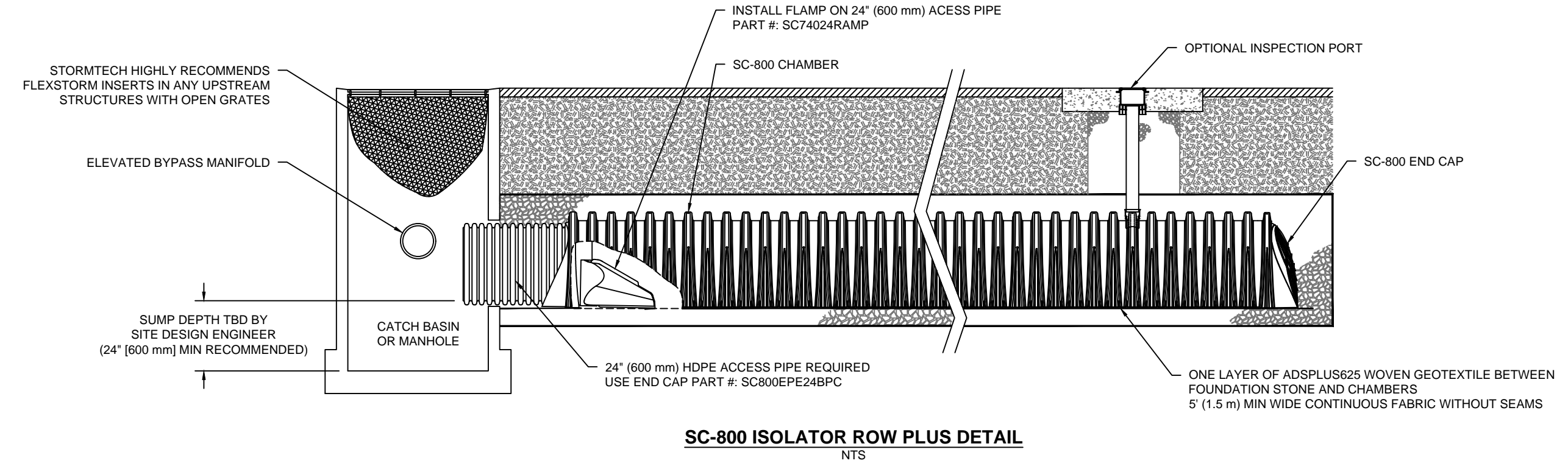
NOTE: ALL DIMENSIONS ARE NOMINAL

INSPECTION & MAINTENANCE

- STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT
- INSPECTION PORTS (IF PRESENT)
 - REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
 - REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
 - USING A FLASHLIGHT AND STADA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
 - LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
 - IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
 - ALL ISOLATOR PLUS ROWS
 - REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS
 - USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE
 - MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
 - FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
 - IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- STEP 2) CLEAN OUT ISOLATOR ROW PLUS USING THE JETVAC PROCESS
- A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45° (1.1 m) OR MORE IS PREFERRED
 - APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
 - VACUUM STRUCTURE SUMP AS REQUIRED
- STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.
- STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

NOTES

- INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
- CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.



REV.	BY	DATE	DESCRIPTION
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PHASE III SITE PLAN FOR
 ROUTE 208 & CHESTNUT DRIVE
 VILLAGE OF SOUTH BLOOMING GROVE
 COUNTY OF ORANGE, NEW YORK

STORMWATER CONTRUCTION DETAILS

JOB#: 24-010
 SCALE: AS NOTED
 DATE: 08-29-25
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 SHEET NO. 13 of 16

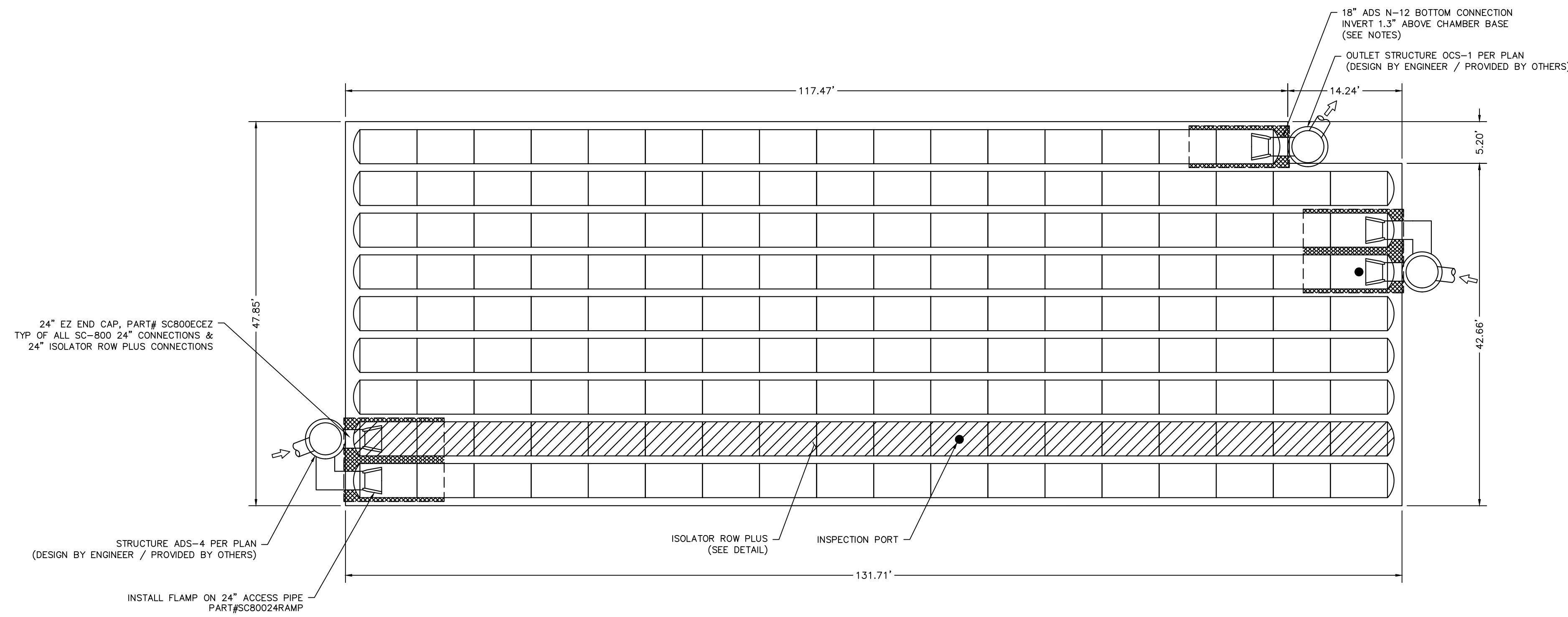
WARNING- IT IS A VIOLATION OF NEW YORK EDUCATIONAL LAW, SECTION 7209.2, FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER THIS DOCUMENT IN ANY WAY. IF ALTERED, THE ALTERING PERSON SHALL COMPLY WITH THE REQUIREMENTS OF NEW YORK EDUCATIONAL LAW, SECTION 7209.2

ONLY MAPS WITH EMBOSSED SEALS ARE GENUINE COPIES OF THE ORIGINAL WORK AND OPINION. MAPS NOT BEARING EMBOSSED SEALS SHOULD NOT BE RELIED UPON SINCE OTHER THAN EMBOSSED-SEAL COPIES MAY CONTAIN UNAUTHORIZED AND UNDETECTABLE MODIFICATIONS, DELETIONS, ADDITIONS AND CHANGES.

Udig NY MUST BE CONTACTED PRIOR TO ANY EXCAVATION OR DEMOLITION

SC-800 STORMTECH CHAMBER SPECIFICATIONS

1. CHAMBERS SHALL BE STORMTECH SC-800.
2. CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.
3. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
4. CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
5. THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
6. CHAMBERS SHALL BE DESIGNED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (<1 MIN) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) AASHTO DESIGN TRUCK.
7. REQUIREMENTS FOR HANDLING AND INSTALLATION:
 TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL INTERLOCKING STACKING LUGS.
 TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2".
 TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 550 LBS/FT/IN. THE ASC IS DEFINED IN SECTION 6.2.8 OF ASTM F2418. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.
8. ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE AS FOLLOWS:
 THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER.
 THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTIONS 3 AND 12.12 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE.
 THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2418 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.
9. CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.
10. MANIFOLD SIZE TO BE DETERMINED BY SITE DESIGN ENGINEER. SEE TECHNICAL NOTE 6.32 FOR MANIFOLD SIZING GUIDANCE. DUE TO THE ADAPTATION OF THIS CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONSTRAINTS, IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL PIPE TO STANDARD MANIFOLD COMPONENTS IN THE FIELD.
11. ADS DOES NOT DESIGN OR PROVIDE MEMBRANE LINER SYSTEMS. TO MINIMIZE THE LEAKAGE POTENTIAL OF LINER SYSTEMS, THE MEMBRANE LINER SYSTEM SHOULD BE DESIGNED BY A KNOWLEDGEABLE GEOTEXTILE PROFESSIONAL AND INSTALLED BY A QUALIFIED CONTRACTOR.



ADS STORMTECH 4 SC-800 CHAMBER SYSTEM
NOT TO SCALE

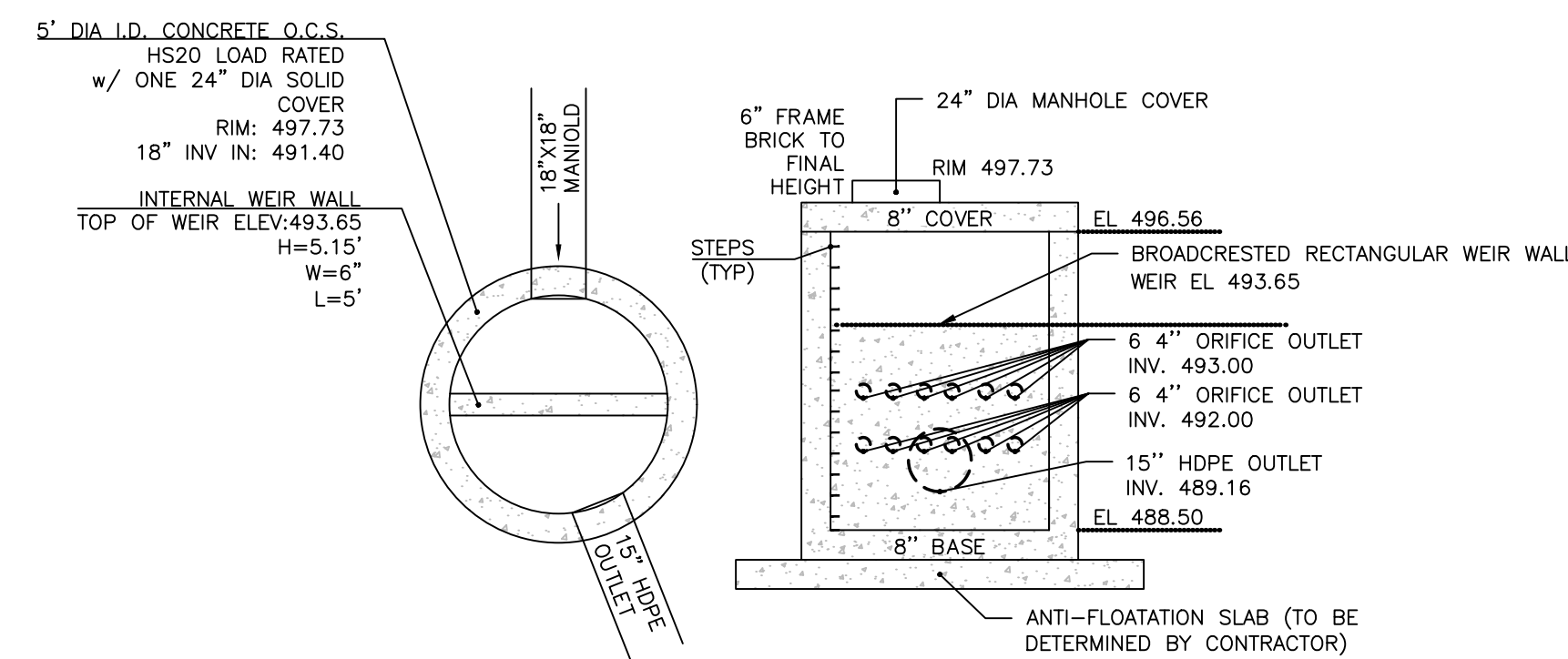
IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF THE SC-800 SYSTEM

1. STORMTECH SC-800 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
2. STORMTECH SC-800 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/SC-800/DC-780 CONSTRUCTION GUIDE".
3. CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS. STORMTECH RECOMMENDS 3 BACKFILL METHODS:
 STONESHOOTER LOCATED OFF THE CHAMBER BED.
 BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
 BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
4. THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
5. JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
6. MAINTAIN MINIMUM - 6" (150 mm) SPACING BETWEEN THE CHAMBER ROWS.
7. EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE; AASHTO M43 #3, 357, 4, 467, 5, 56, OR 57.
8. THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
9. ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

NOTES FOR CONSTRUCTION EQUIPMENT

- STORMTECH SC-800 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/SC-800/DC-780 CONSTRUCTION GUIDE".
1. THE USE OF CONSTRUCTION EQUIPMENT OVER SC-800 CHAMBERS IS LIMITED:
 NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
 NO RUBBER TIRE LOADERS, DUMP TRUCKS, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/SC-800/DC-780 CONSTRUCTION GUIDE".
 WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH SC-310/SC-740/SC-800/DC-780 CONSTRUCTION GUIDE".
 2. FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO THE CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.
 CONTACT STORMTECH AT 1-800-821-6710 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.



OUTLET STRUCTURE ELEVATIONS
OCS#4
SCALE: 1" = 1"

REV.	BY	DATE	DESCRIPTION
1.	MM	10-13-25	PER DOT SUBMITTAL

THIS SHEET IS NOT VALID WITHOUT ALL OF THE SHEETS THAT COMPRISE THE SET

ARDEN CONSULTING ENGINEERS, PLLC
 P.O. BOX 340 MONROE, N.Y.
 TEL: (845) 782-8114
 WWW.ARDENCONSULTING.NET

PHASE III SITE PLAN FOR
ROUTE 208 & CHESTNUT DRIVE
 VILLAGE OF SOUTH BLOOMING GROVE
 COUNTY OF ORANGE, NEW YORK

STORMWATER CONTRUCTION
DETAILS

JOB#: 24-010
 SCALE: AS NOTED
 DATE: 08-29-25
 DRAWN: MM
 CHECKED: MM
 SHEET NO. 14 of 16

MICHAEL A. MORGANTE, P.E.
 LIC. NO. 78577

WARNING- IT IS A VIOLATION OF NEW YORK EDUCATIONAL LAW, SECTION 7209.2, FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER THIS DOCUMENT IN ANY WAY. IF ALTERED, THE ALTERING PERSON SHALL COMPLY WITH THE REQUIREMENTS OF NEW YORK EDUCATIONAL LAW, SECTION 7209.2

ONLY MAPS WITH EMBOSSED SEALS ARE GENUINE COPIES OF THE ORIGINAL WORK AND OPINION. MAPS NOT BEARING EMBOSSED SEALS SHOULD NOT BE RELIED UPON SINCE OTHER THAN EMBOSSED-SEAL COPIES MAY CONTAIN UNAUTHORIZED AND UNDETECTABLE MODIFICATIONS, DELETIONS, ADDITIONS AND CHANGES.

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