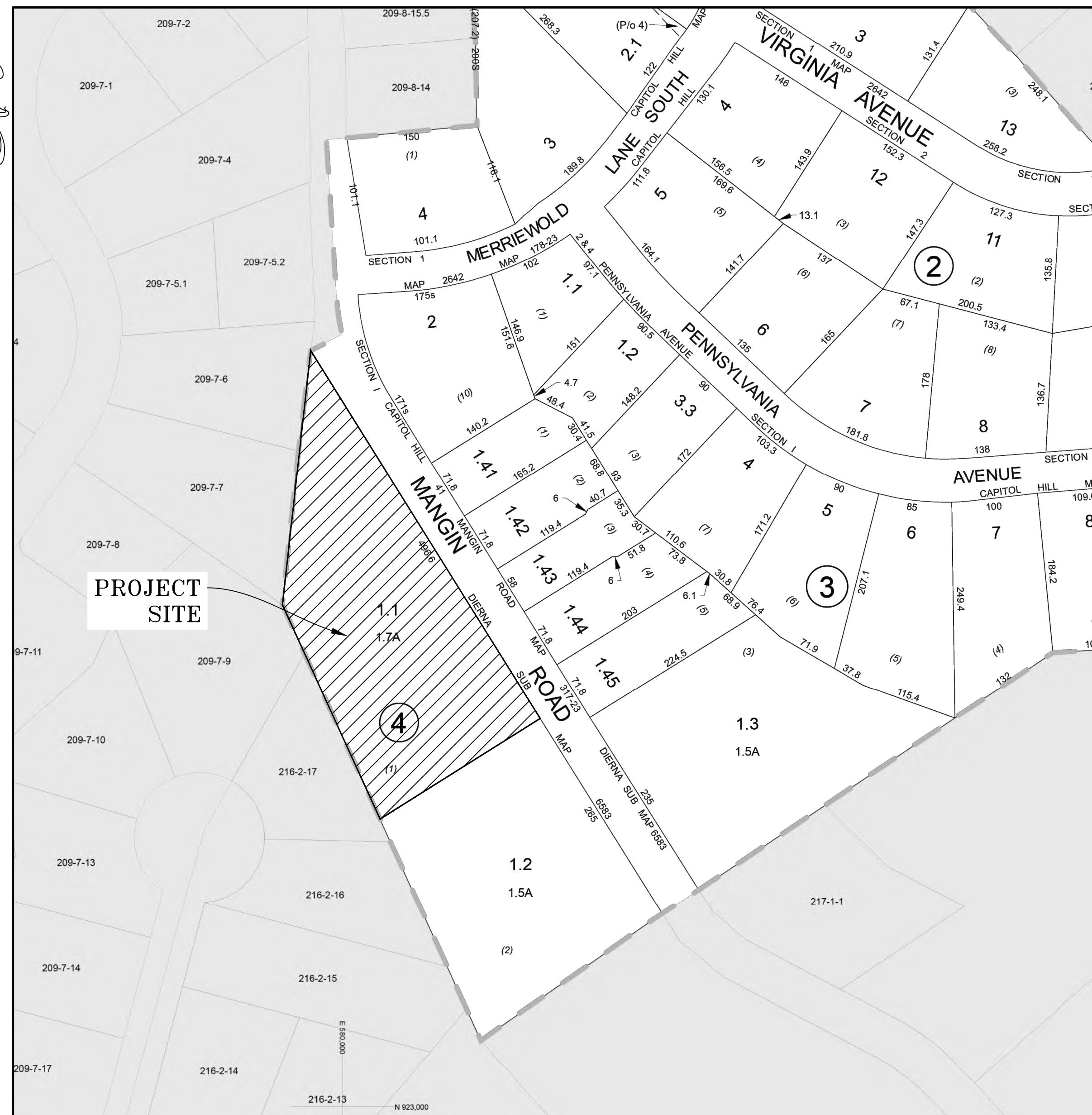


SITE PLAN PREPARED FOR 40 MANGIN ROAD VILLAGE OF SOUTH BLOOMING GROVE, ORANGE COUNTY, NEW YORK



LOCATION MAP

SCALE: 1"=100'

GENERAL NOTES:

1. RECORD OWNER & APPLICANT:
LAZAR WEISS
106 SKILLMAN ST
BROOKLYN NY 11205
2. PROPERTY ADDRESS:
40 MANGIN RD,
VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK
3. TAX MAP NUMBER:
SECTION 210, BLOCK 4, LOT 1.1
4. DEED REFERENCE:
LIBER 14690, PAGE 1413
5. PARCEL AREA/SIZE:
AREA= 74,311.47 S.F.
OR 1.71 ACRES ±
6. SURVEY REFERENCE:
PLAN ENTITLED "40 MANGIN ROAD, SECTION 210 -BLOCK 4 - LOT 1.1
SITUATED IN THE VILLAGE OF SOUTH BLOOMING GROVE, ORANGE COUNTY,
NEW YORK, DATED 8-08-2023, PREPARED BY EDWARD T.GANNON, P.L.S.

DRAWING LIST

SHEET #	SHEET TITLE	ORIGINAL DATE / LAST REVISED DATE
01 OF 19	TITLE SHEET	04-04-25 / 06-17-25
02 OF 19	EXISTING CONDITIONS PLAN	04-04-25 / 06-17-25
03 OF 19	DEMOLITION PLAN	04-04-25 / 06-17-25
04 OF 19	SITE PLAN	04-04-25 / 06-17-25
05 OF 19	GRADING & UTILITY PLAN	04-04-25 / 06-17-25
06 OF 19	DRAINAGE PROFILE	04-04-25 / 06-17-25
07 OF 19	SEWER LATERAL PROFILE	04-04-25 / 06-17-25
08 OF 19	WATER MAIN PROFILE	04-04-25 / 06-17-25
09 OF 19	EROSION & SEDIMENT CONTROL PLAN	04-04-25 / 06-17-25
10 OF 19	EROSION & SEDIMENT CONTROL DETAILS	04-04-25 / 06-17-25
11 OF 19	LIGHTING PLAN	04-04-25 / 06-17-25
12 OF 19	LIGHTING DETAILS	04-04-25 / 06-17-25
13 OF 19	LANDSCAPING PLAN	04-04-25 / 06-17-25
14 OF 19	LANDSCAPING DETAILS	04-04-25 / 06-17-25
15 OF 19	DRAINAGE DETAILS	04-04-25 / 06-17-25
16 OF 19	SANITARY DETAILS	04-04-25 / 06-17-25
17 OF 19	WATER SUPPLY DETAILS	04-04-25 / 06-17-25
18 OF 19	CONSTRUCTION DETAILS	04-04-25 / 06-17-25
19 OF 19	CONSTRUCTION SPECIFICATIONS	04-04-25 / 06-17-25

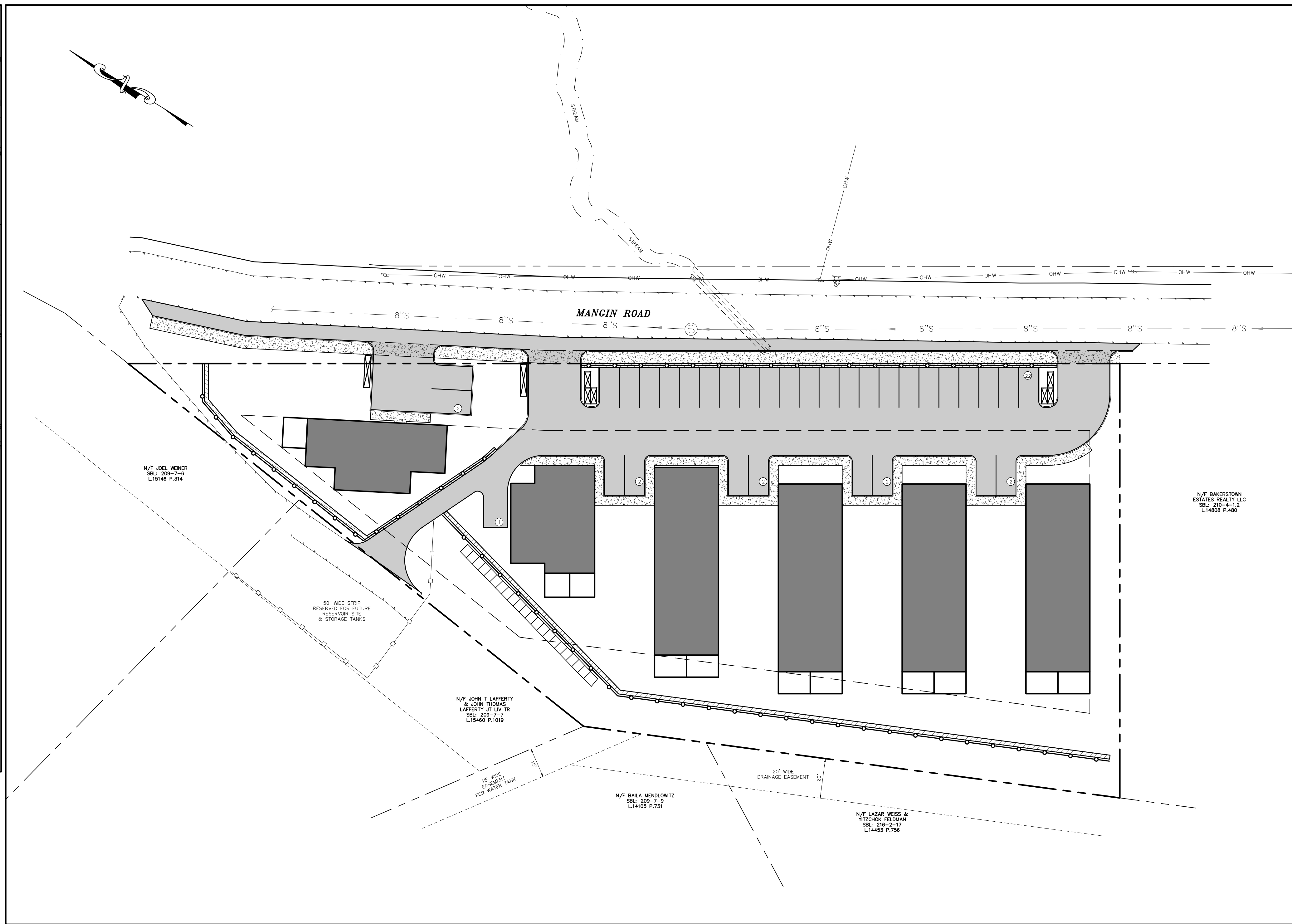
TREE CLEARING NOTE:

NO TREE REMOVAL SHALL OCCUR FROM APRIL 1 TO OCTOBER 31 TO MITIGATE POTENTIAL IMPACTS ON INDIANA BAT & NORTHERN LONG EARED BAT.

Udig NY MUST BE CONTACTED PRIOR TO ANY EXCAVATION OR DEMOLITION

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.



TITLE SHEET

SCALE: 1"=30'



NOTES:

1. SPRINKLER REQUIRED FOR ALL BUILDINGS AS MULTIPLE DWELLINGS.
2. ALL PROPOSED BUILDING SHALL PROVIDE FIRE PROTECTION, WHICH AT A MINIMUM INCLUDES FIRE SPRINKLERS AND FIRE WALLS, IN ACCORDANCE WITH NYS BUILDING CODE.
3. NO ENCROACHMENTS ARE PERMITTED IN SIDE YARDS.
4. SELF STANDING FIRE WALLS AND SPRINKLERS ARE REQUIRED ON EACH UNIT. PROVIDE VERTICAL & HORIZONTAL FIRE WALLS AND/OR FLOORS BETWEEN ALL UNITS SELF-STANDING FIRE WALLS, FIRE DEPARTMENT CONNECTION LOCATIONS ARE SHOWN ON THESE PLANS AND TO BE PROVIDED ON ARCHITECTURAL PLANS SUBMITTED PRIOR TO ISSUANCE OF A BUILDING PERMIT.
5. A CERTIFIED ASBESTOS REPORT IS REQUIRED PRIOR TO DEMOLITION.
6. ALL PROPOSED WATER LINES SHALL BE CONSTRUCTED AT A MINIMUM DEPTH OF 4.5'.

REV.	BY	DATE	DESCRIPTION
1.	MM	06-17-25	PER 05-29-2025 FES COMMENT LETTER

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

COPYRIGHT 2025, ARDEN CONSULTING ENGINEERS, P.L.L.C. - ALL RIGHTS RESERVED

ARDEN CONSULTING ENGINEERS, PLLC

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

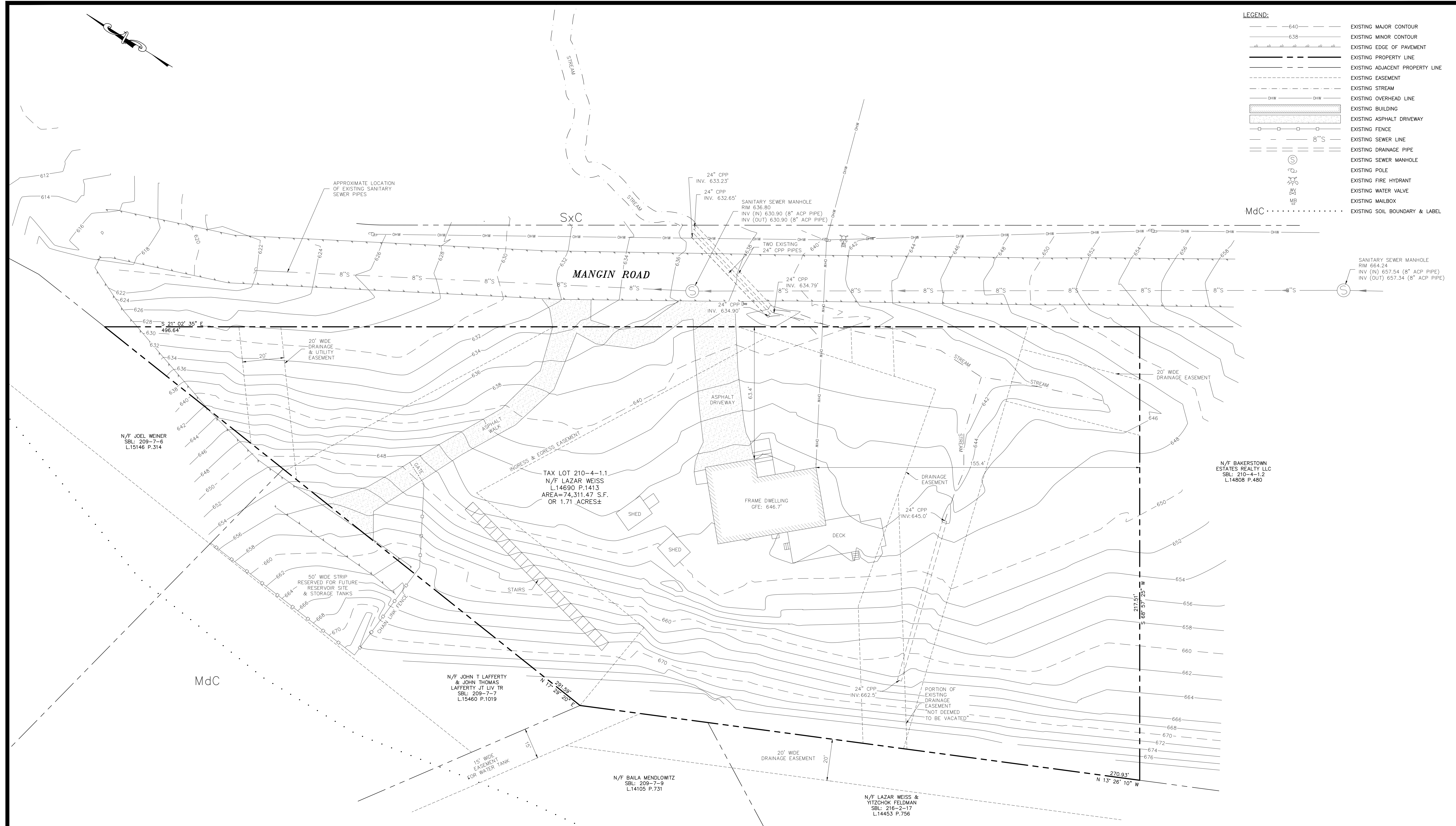
SITE PLAN PREPARED FOR
40 MANGIN ROAD
VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

TITLE SHEET

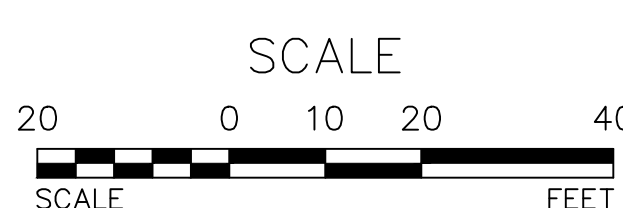
JOB#: 25-041
SCALE: AS NOTED
DATE: 04-04-25
DRAWN: MM
CHECKED: MM
SHEET NO. 01 OF 19

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

- LEGEND:**
- 640--- EXISTING MAJOR CONTOUR
 - 638--- EXISTING MINOR CONTOUR
 - |--- EXISTING EDGE OF PAVEMENT
 - |--- EXISTING PROPERTY LINE
 - |--- EXISTING ADJACENT PROPERTY LINE
 - |--- EXISTING EASEMENT
 - |--- EXISTING STREAM
 - OHW--- EXISTING OVERHEAD LINE
 - |--- EXISTING BUILDING
 - |--- EXISTING ASPHALT DRIVEWAY
 - |--- EXISTING FENCE
 - 8"S--- EXISTING SEWER LINE
 - |--- EXISTING DRAINAGE PIPE
 - S--- EXISTING SEWER MANHOLE
 - P--- EXISTING POLE
 - F--- EXISTING FIRE HYDRANT
 - WV--- EXISTING WATER VALVE
 - MB--- EXISTING MAILBOX
 - MdC--- EXISTING SOIL BOUNDARY & LABEL



EXISTING CONDITIONS PLAN
 SCALE: 1"=20'



TREE CLEARING NOTE:
 NO TREE REMOVAL SHALL OCCUR FROM APRIL 1 TO OCTOBER 31 TO MITIGATE POTENTIAL IMPACTS ON INDIANA BAT & NORTHERN LONG EARED BAT.

Udig NY MUST BE CONTACTED PRIOR TO ANY EXCAVATION OR DEMOLITION

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.

REV.	BY	DATE	DESCRIPTION
1.	MM	06-17-25	PER 05-29-2025 FES COMMENT LETTER

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

COPYRIGHT 2025, ARDEN CONSULTING ENGINEERS, P.L.L.C. - ALL RIGHTS RESERVED

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

SITE PLAN PREPARED FOR
40 MANGIN ROAD
 VILLAGE OF SOUTH BLOOMING GROVE,
 ORANGE COUNTY, NEW YORK

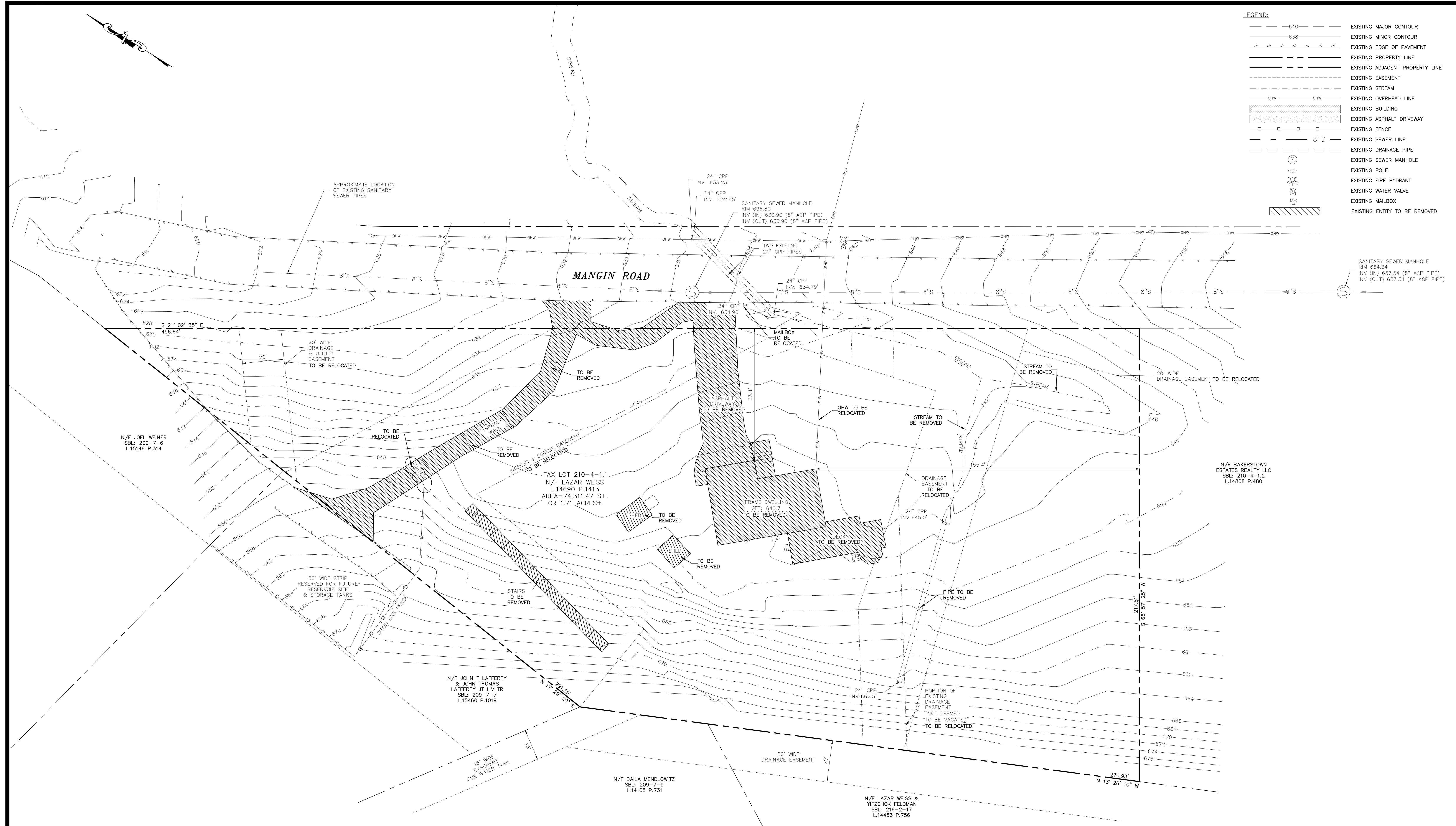
EXISTING CONDITIONS PLAN

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

JOB#: 25-041
SCALE: AS NOTED
DATE: 04-04-25
DRAWN: MM
CHECKED: MM
SHEET NO.: 02 OF 19

LEGEND:

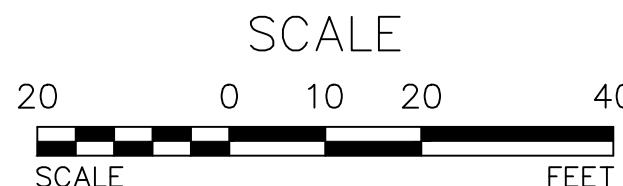
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	EXISTING EDGE OF PAVEMENT
	EXISTING PROPERTY LINE
	EXISTING ADJACENT PROPERTY LINE
	EXISTING EASEMENT
	EXISTING STREAM
	EXISTING OVERHEAD LINE
	EXISTING BUILDING
	EXISTING ASPHALT DRIVEWAY
	EXISTING FENCE
	EXISTING SEWER LINE
	EXISTING DRAINAGE PIPE
	EXISTING SEWER MANHOLE
	EXISTING POLE
	EXISTING FIRE HYDRANT
	EXISTING WATER VALVE
	EXISTING MAILBOX
	EXISTING ENTITY TO BE REMOVED



NOTE:
ALL STRUCTURES TO BE TESTED FOR ASBESTOS AND DEMO PERMIT REQUIRED BY THE BUILDING DEPARTMENT

TREE CLEARING NOTE:
NO TREE REMOVAL SHALL OCCUR FROM APRIL 1 TO OCTOBER 31 TO MITIGATE POTENTIAL IMPACTS ON INDIANA BAT & NORTHERN LONG EARED BAT.

Udig NY MUST BE CONTACTED PRIOR TO ANY EXCAVATION OR DEMOLITION



DEMOLITION PLAN
SCALE: 1"=20'

REV.	BY	DATE	DESCRIPTION
1.	MM	06-17-25	PER 05-29-2025 FES COMMENT LETTER
THIS SHEET IS NOT VALID WITHOUT ALL OF THE SHEETS THAT COMPRISE THE SET			
COPYRIGHT 2025, ARDEN CONSULTING ENGINEERS, P.L.L.C. - ALL RIGHTS RESERVED			

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

SITE PLAN PREPARED FOR
40 MANGIN ROAD
VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

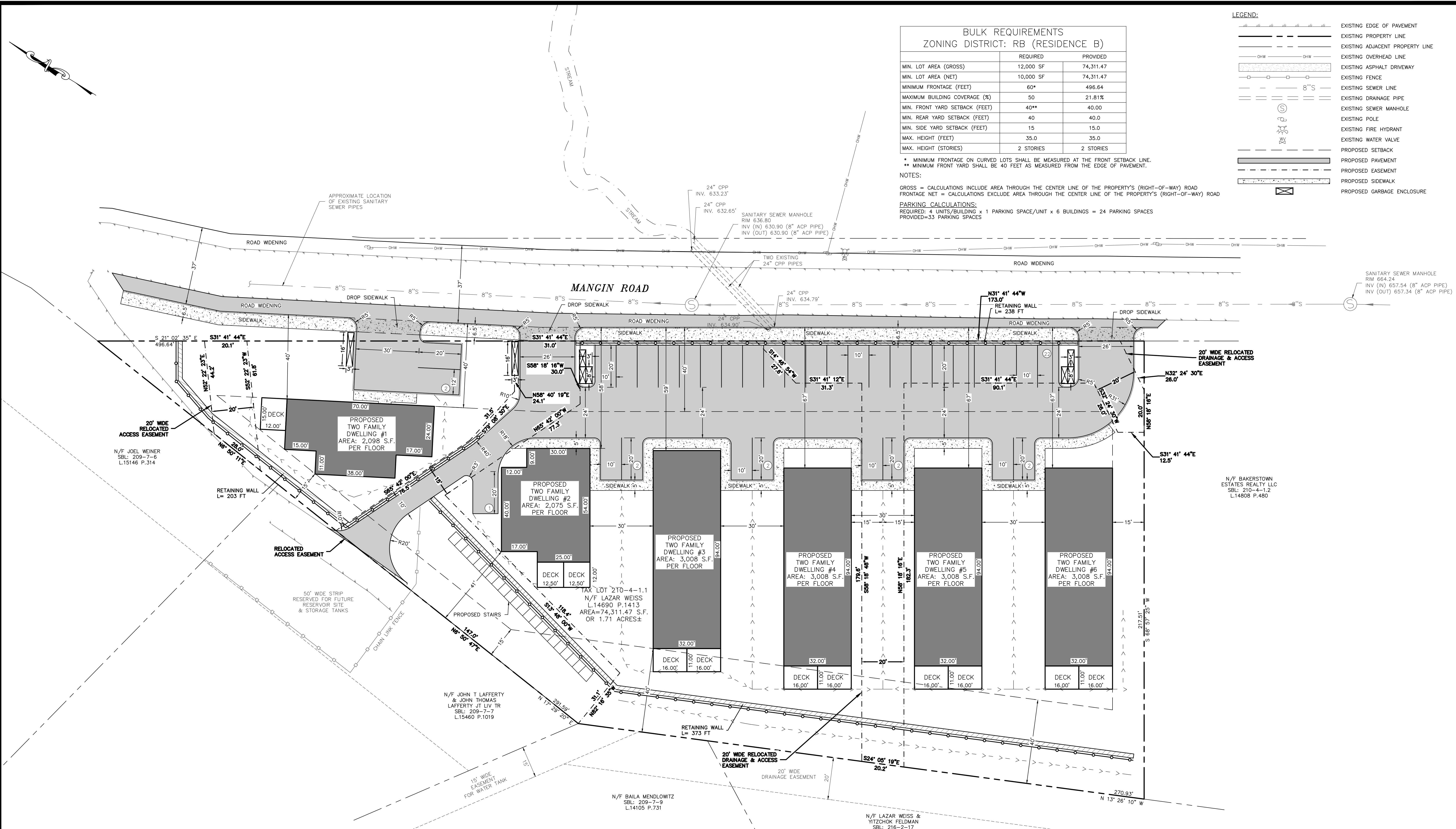
DEMOLITION PLAN

JOB#: 25-041
SCALE: AS NOTED
DATE: 04-04-25
DRAWN: MM
CHECKED: MM
SHEET NO. 03 OF 19

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.



BULK REQUIREMENTS
ZONING DISTRICT: RB (RESIDENCE B)

	REQUIRED	PROVIDED
MIN. LOT AREA (GROSS)	12,000 SF	74,311.47
MIN. LOT AREA (NET)	10,000 SF	74,311.47
MINIMUM FRONTAGE (FEET)	60*	496.64
MAXIMUM BUILDING COVERAGE (%)	50	21.81%
MIN. FRONT YARD SETBACK (FEET)	40**	40.00
MIN. REAR YARD SETBACK (FEET)	40	40.00
MIN. SIDE YARD SETBACK (FEET)	15	15.00
MAX. HEIGHT (FEET)	35.0	35.0
MAX. HEIGHT (STORIES)	2 STORIES	2 STORIES

* 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.

NOTES:
GROSS = CALCULATIONS INCLUDE AREA THROUGH THE CENTER LINE OF THE PROPERTY'S (RIGHT-OF-WAY) ROAD FRONTAGE NET = CALCULATIONS EXCLUDE AREA THROUGH THE CENTER LINE OF THE PROPERTY'S (RIGHT-OF-WAY) ROAD
PARKING CALCULATIONS:
REQUIRED: 4 UNITS/BUILDING x 1 PARKING SPACE/UNIT x 6 BUILDINGS = 24 PARKING SPACES
PROVIDED=33 PARKING SPACES

LEGEND:

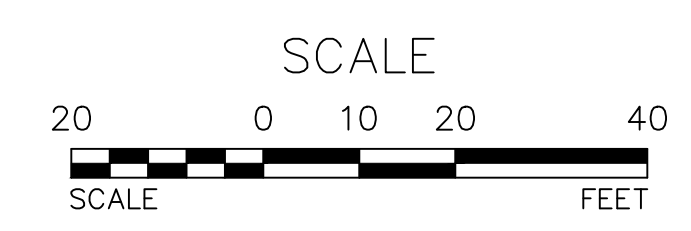
- EXISTING EDGE OF PAVEMENT
- EXISTING PROPERTY LINE
- EXISTING ADJACENT PROPERTY LINE
- EXISTING OVERHEAD LINE
- EXISTING ASPHALT DRIVEWAY
- EXISTING FENCE
- EXISTING SEWER LINE
- EXISTING DRAINAGE PIPE
- EXISTING SEWER MANHOLE
- EXISTING POLE
- EXISTING FIRE HYDRANT
- EXISTING WATER VALVE
- PROPOSED SETBACK
- PROPOSED PAVEMENT
- PROPOSED EASEMENT
- PROPOSED SIDEWALK
- PROPOSED GARBAGE ENCLOSURE

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.

TREE CLEARING NOTE:
NO TREE REMOVAL SHALL OCCUR FROM APRIL 1 TO OCTOBER 31 TO MITIGATE POTENTIAL IMPACTS ON INDIANA BAT & NORTHERN LONG EARED BAT.

UDig NY MUST BE CONTACTED PRIOR TO ANY EXCAVATION OR DEMOLITION



SITE PLAN
SCALE: 1"=20'

REV.	BY	DATE	DESCRIPTION
1.	MM	06-17-25	PER 05-29-2025 FES COMMENT LETTER

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

COPYRIGHT 2025, ARDEN CONSULTING ENGINEERS, P.L.L.C. - ALL RIGHTS RESERVED

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

SITE PLAN PREPARED FOR
40 MANGIN ROAD
VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

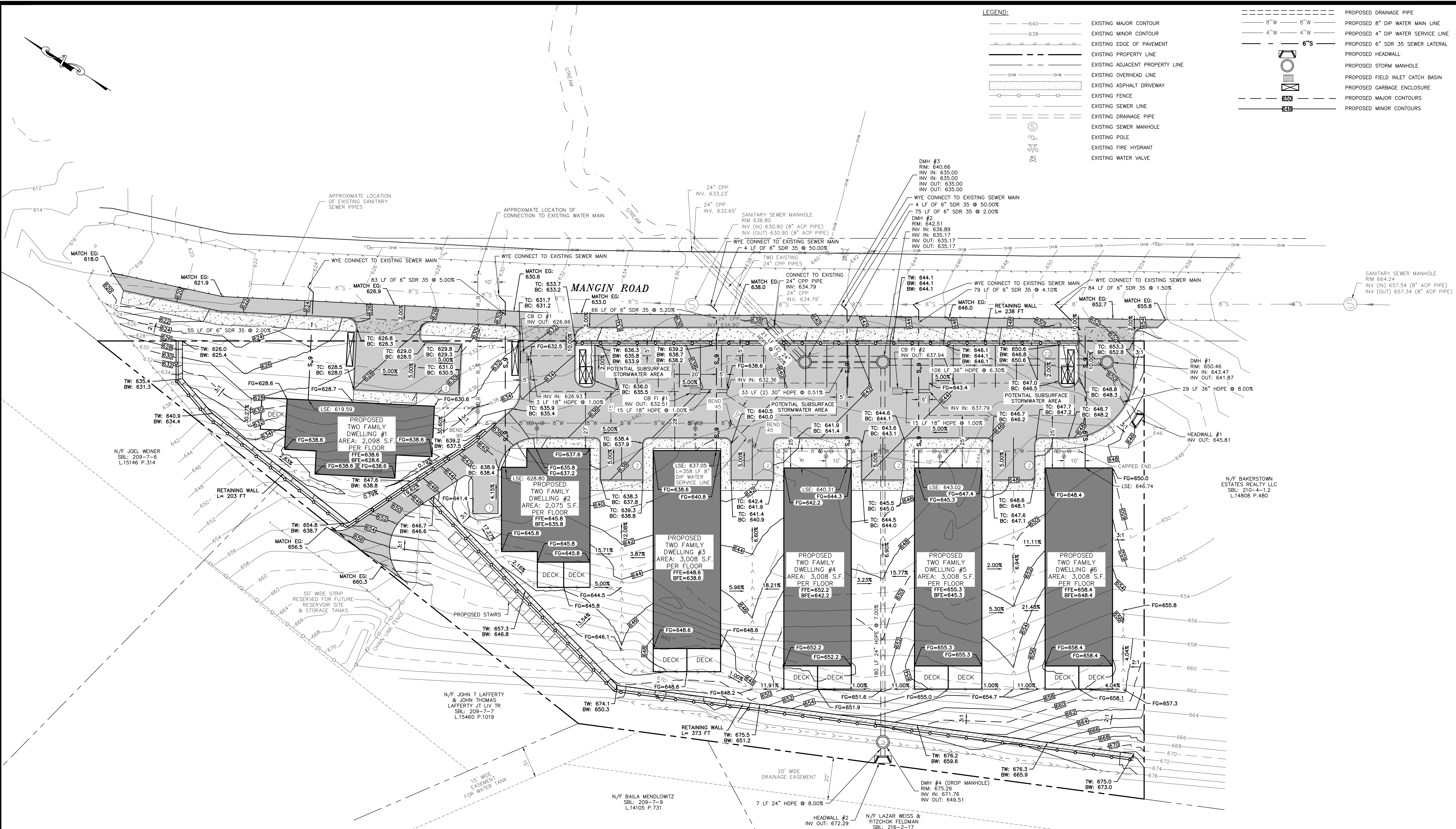
SITE PLAN

JOB#: 25-041	SCALE: AS NOTED
DATE: 04-04-25	DRAWN: MM
CHECKED: MM	SHEET NO. 04 OF 19

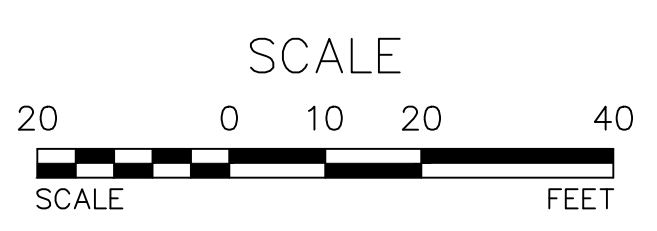
MICHAEL A. MORGANTE, P.E.
LIC. NO. 78577

LEGEND:

---	EXISTING MAJOR CONTOUR	---	PROPOSED DRAINAGE PIPE
---	EXISTING MINOR CONTOUR	---	PROPOSED 8" DIP WATER MAIN LINE
---	EXISTING EDGE OF PAVEMENT	---	PROPOSED 4" DIP WATER SERVICE LINE
---	EXISTING PROPERTY LINE	---	PROPOSED 6" SDR 35 SEWER LATERAL
---	EXISTING ADJACENT PROPERTY LINE	---	PROPOSED HEADWALL
---	EXISTING OVERHEAD LINE	---	PROPOSED STORM MANHOLE
---	EXISTING ASPHALT DRIVEWAY	---	PROPOSED FIELD INLET CATCH BASIN
---	EXISTING FENCE	---	PROPOSED GARBAGE ENCLOSURE
---	EXISTING SEWER LINE	---	PROPOSED MAJOR CONTOURS
---	EXISTING DRAINAGE PIPE	---	PROPOSED MINOR CONTOURS
---	EXISTING SEWER MANHOLE	---	
---	EXISTING POLE	---	
---	EXISTING FIRE HYDRANT	---	
---	EXISTING WATER VALVE	---	



GRADING & UTILITY PLAN
SCALE: 1"=20'



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.

TREE CLEARING NOTE:
NO TREE REMOVAL SHALL OCCUR FROM APRIL 1 TO OCTOBER 31 TO MITIGATE POTENTIAL IMPACTS ON INDIANA BAT & NORTHERN LONG EARED BAT.

UDig NY MUST BE CONTACTED PRIOR TO ANY EXCAVATION OR DEMOLITION

REV.	BY	DATE	DESCRIPTION
1.	MM	06-17-25	PER 05-29-2025 FES COMMENT LETTER

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

COPYRIGHT 2025, ARDEN CONSULTING ENGINEERS, P.L.L.C. - ALL RIGHTS RESERVED

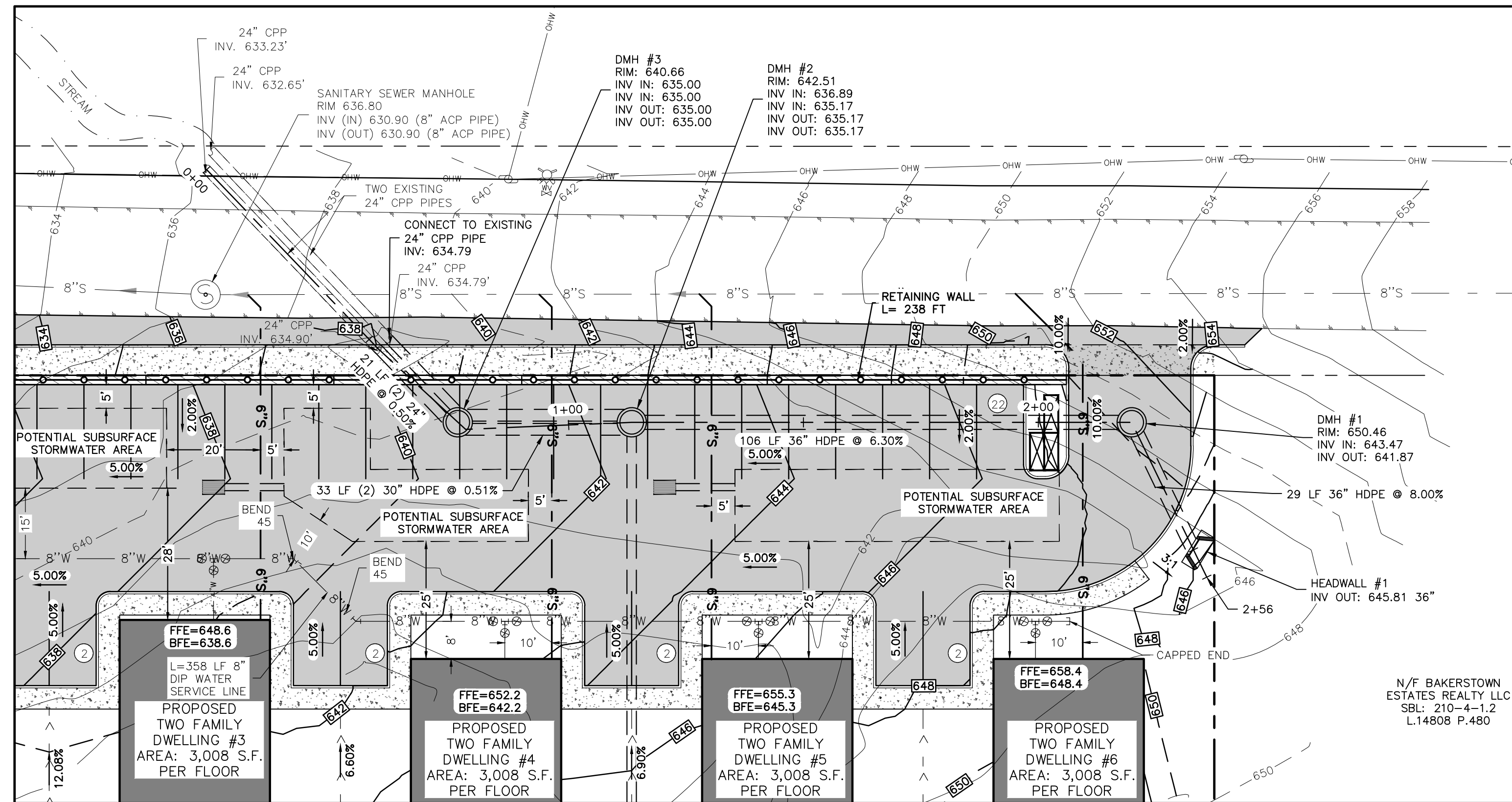
ARDEN CONSULTING ENGINEERS, PLLC
P.O. BOX 340 MONROE, N.Y.
TEL: (845) 782-8114
WWW.ARDENCONSULTING.NET

SITE PLAN PREPARED FOR
40 MANGIN ROAD
VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

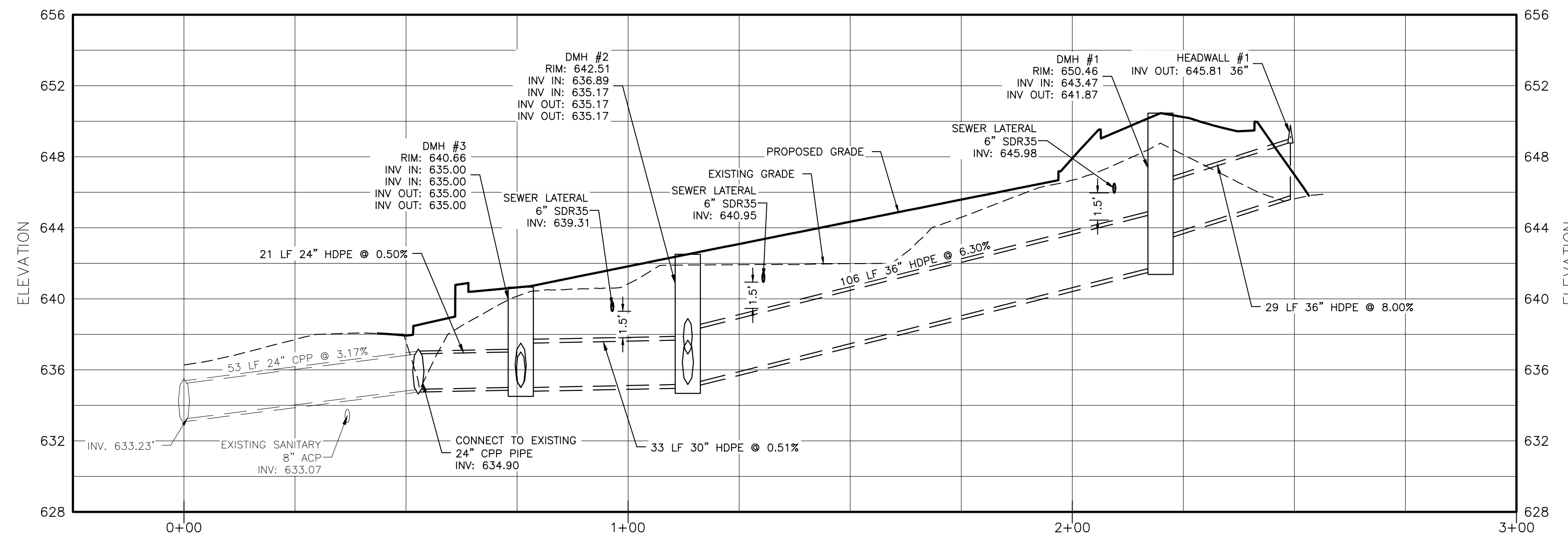
GRADING & UTILITY PLAN

JOB#: 25-041
SCALE: AS NOTED
DATE: 04-04-25
DRAWN: MM
CHECKED: MM
SHEET NO: 05 OF 19

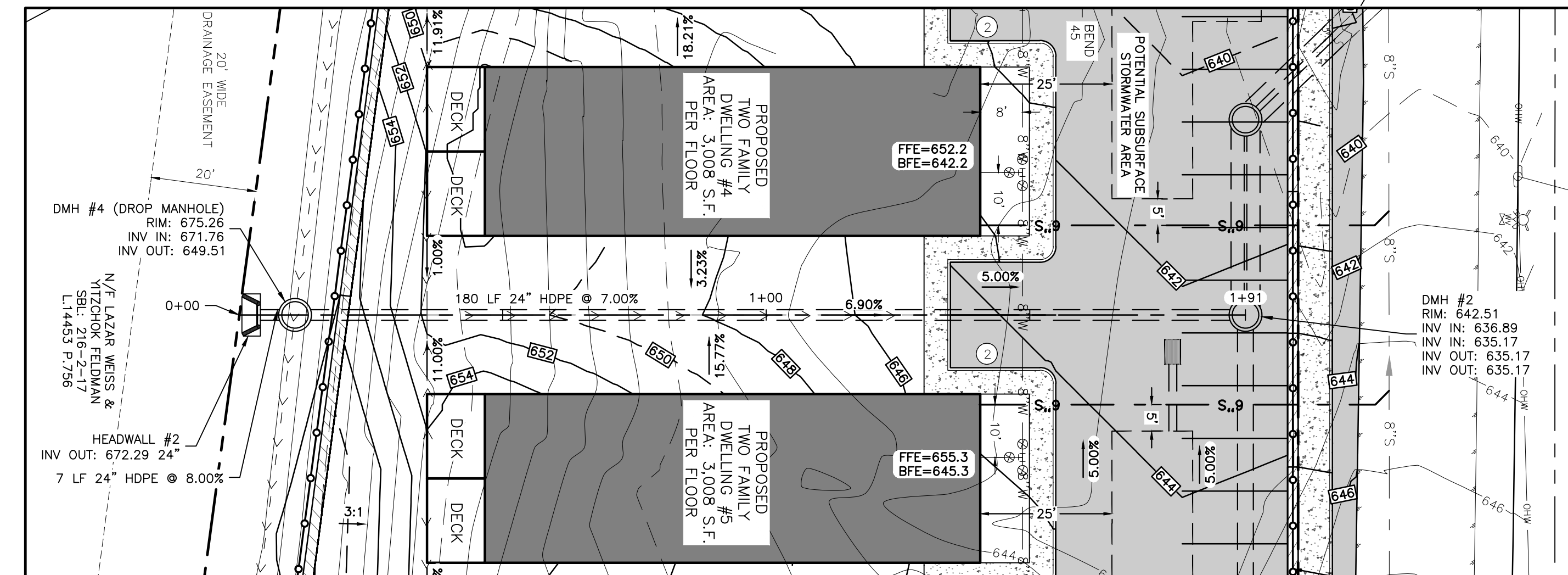
MICHAEL A. MORGANTE, P.E.
LIC. NO. 78577



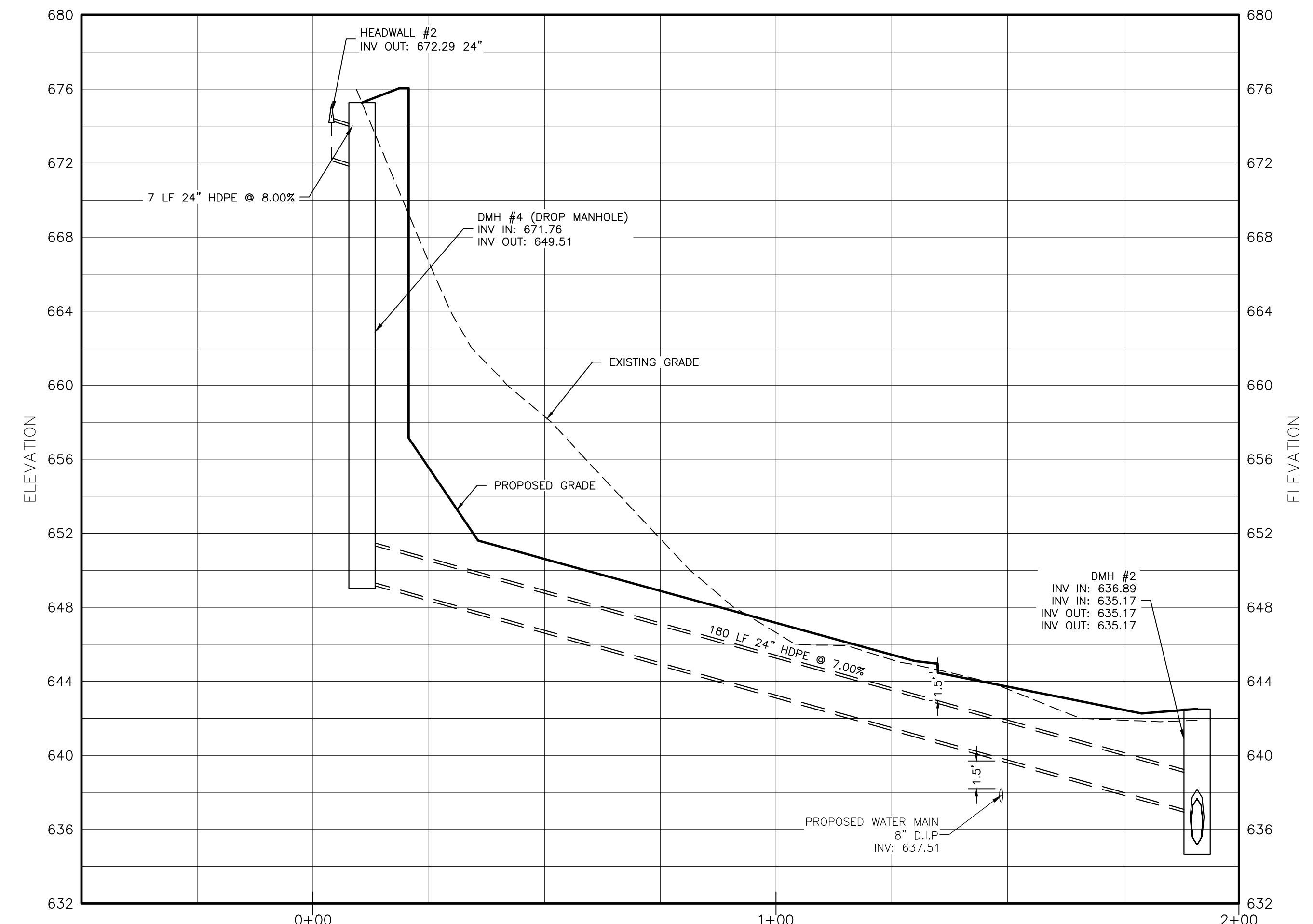
PROPOSED DRAINAGE #1 PLAN
SCALE: 1"=20'



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



PROPOSED DRAINAGE #2 PLAN
SCALE: 1"=20'



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

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

SITE PLAN PREPARED FOR
40 MANGIN ROAD
VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

DRAINAGE PROFILE

JOB#: 25-041
SCALE: AS NOTED
DATE: 04-04-25
DRAWN: MM
CHECKED: MM
SHEET NO: 06 OF 19

REV.	BY	DATE	DESCRIPTION
1.	MM	06-17-25	PER 05-29-2025 FES COMMENT LETTER
THIS SHEET IS NOT VALID WITHOUT ALL OF THE SHEETS THAT COMPRISE THE SET			
COPYRIGHT 2025, ARDEN CONSULTING ENGINEERS, P.L.L.C. - ALL RIGHTS RESERVED			

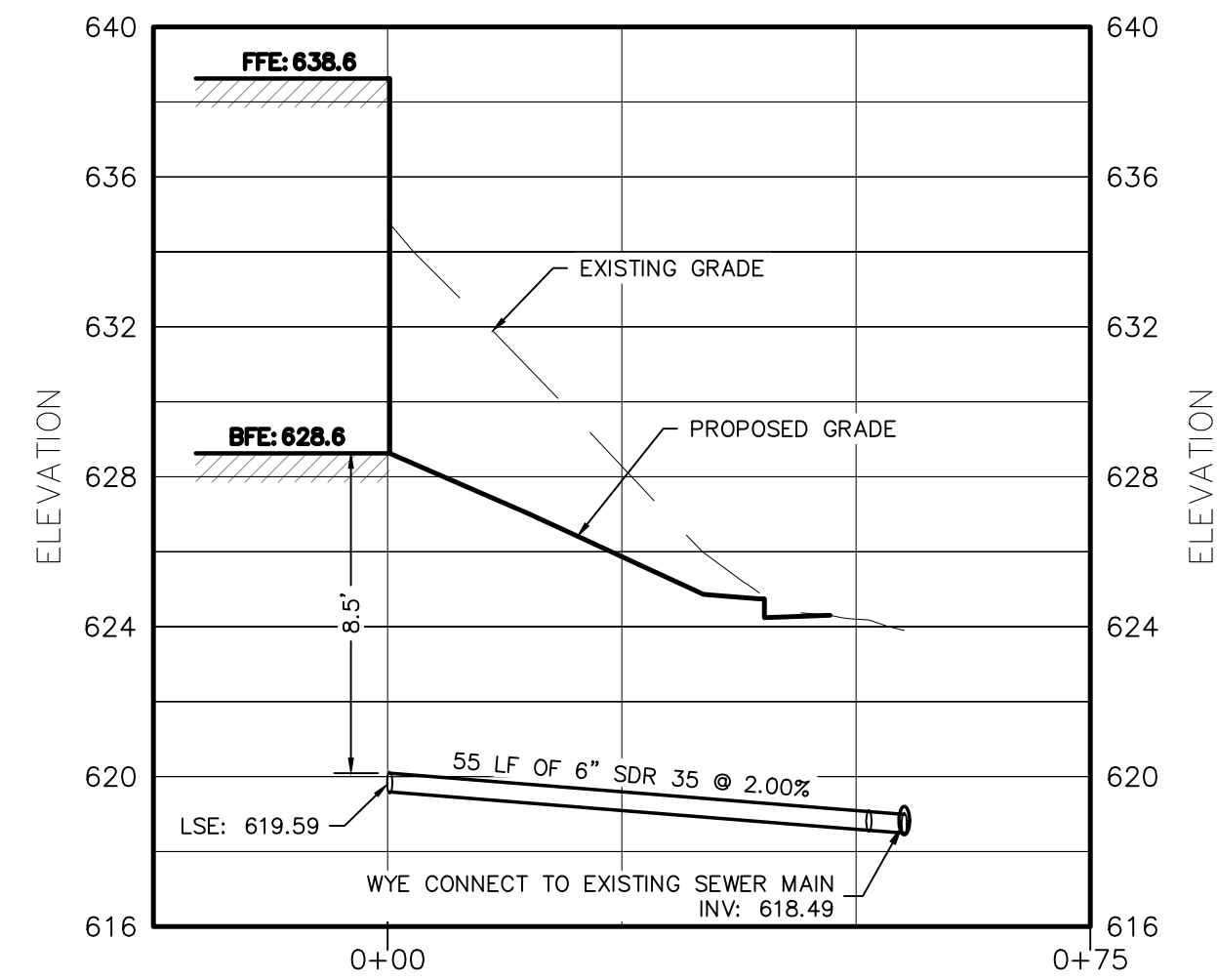
MICHAEL A. MORGANTE, P.E.
LIC. NO. 78577

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

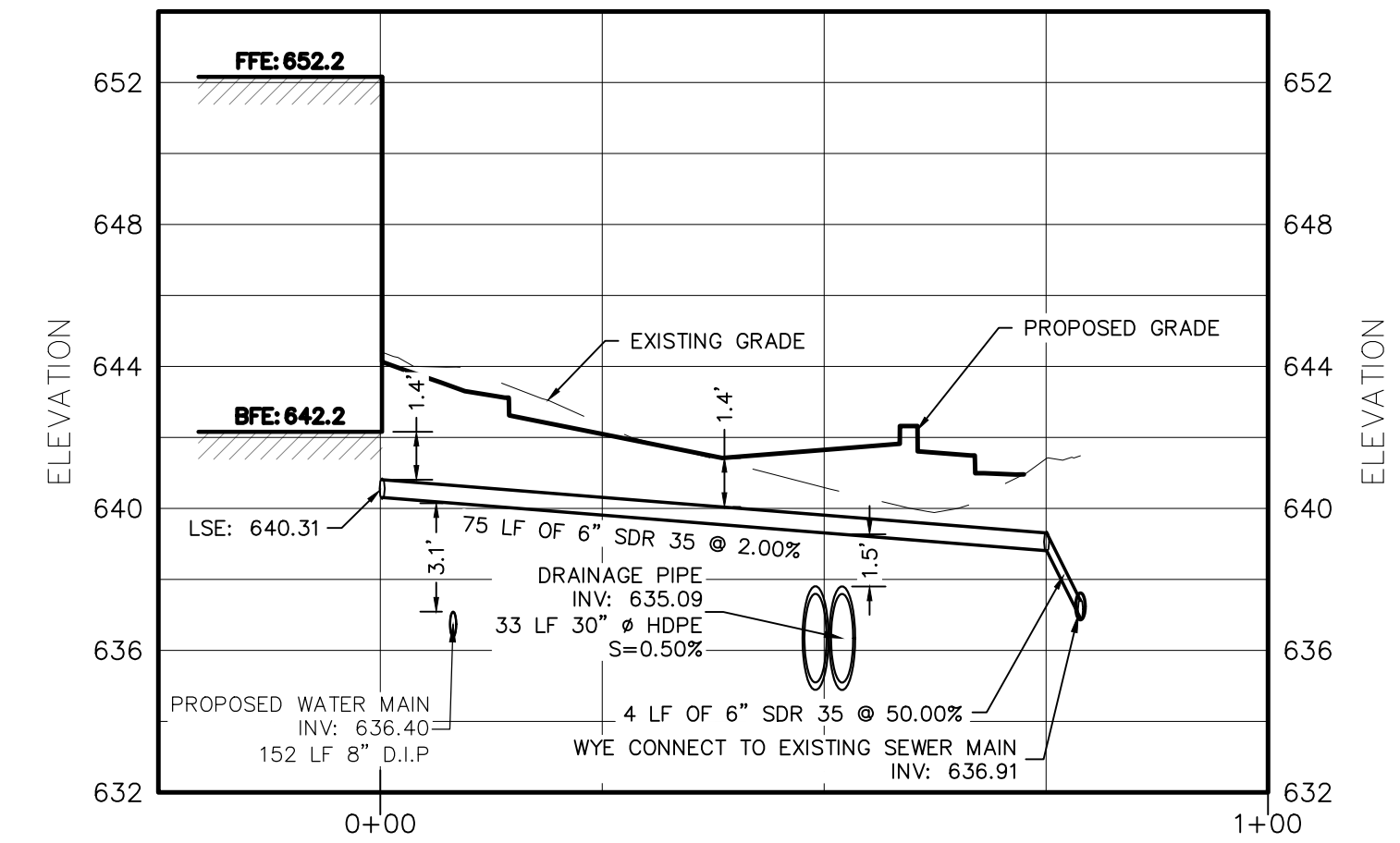
TREE CLEARING NOTE:
NO TREE REMOVAL SHALL OCCUR FROM APRIL 1 TO OCTOBER 31 TO MITIGATE POTENTIAL IMPACTS ON INDIANA BAT & NORTHERN LONG EARED BAT.

Udig NY MUST BE CONTACTED PRIOR TO ANY EXCAVATION OR DEMOLITION

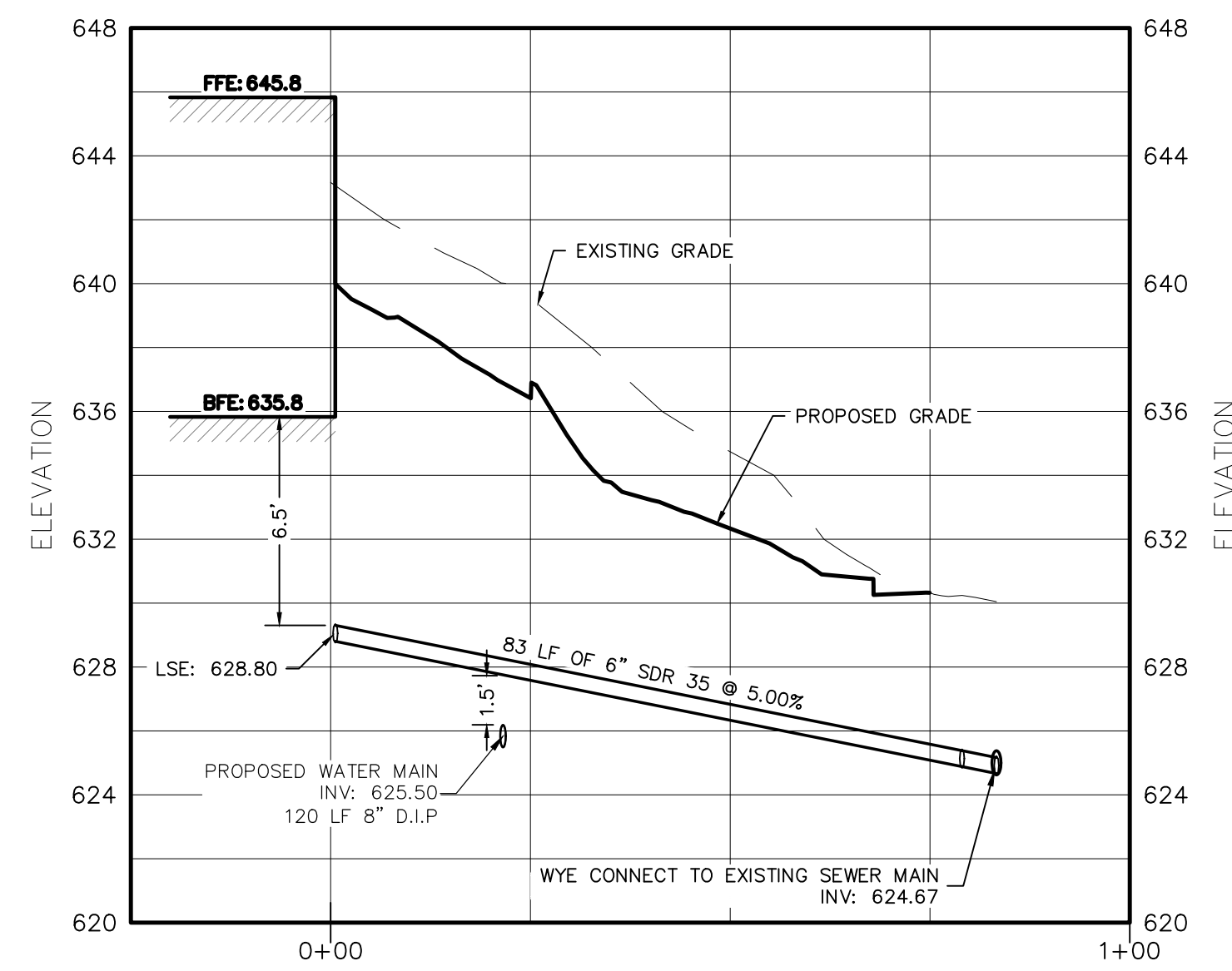
ONLY MAPS WITH EMBOSSED SEALS ARE GENUINE COPIES OF THE ORIGINAL WORK AND OPINION. MAPS NOT BEARING EMBOSSED SEALS SHOULD NOT BE RELIED UPON SINCE OTHER THAN EMBOSSED-SEAL COPIES MAY CONTAIN UNAUTHORIZED AND UNDETECTABLE MODIFICATIONS, DELETIONS, ADDITIONS AND CHANGES.



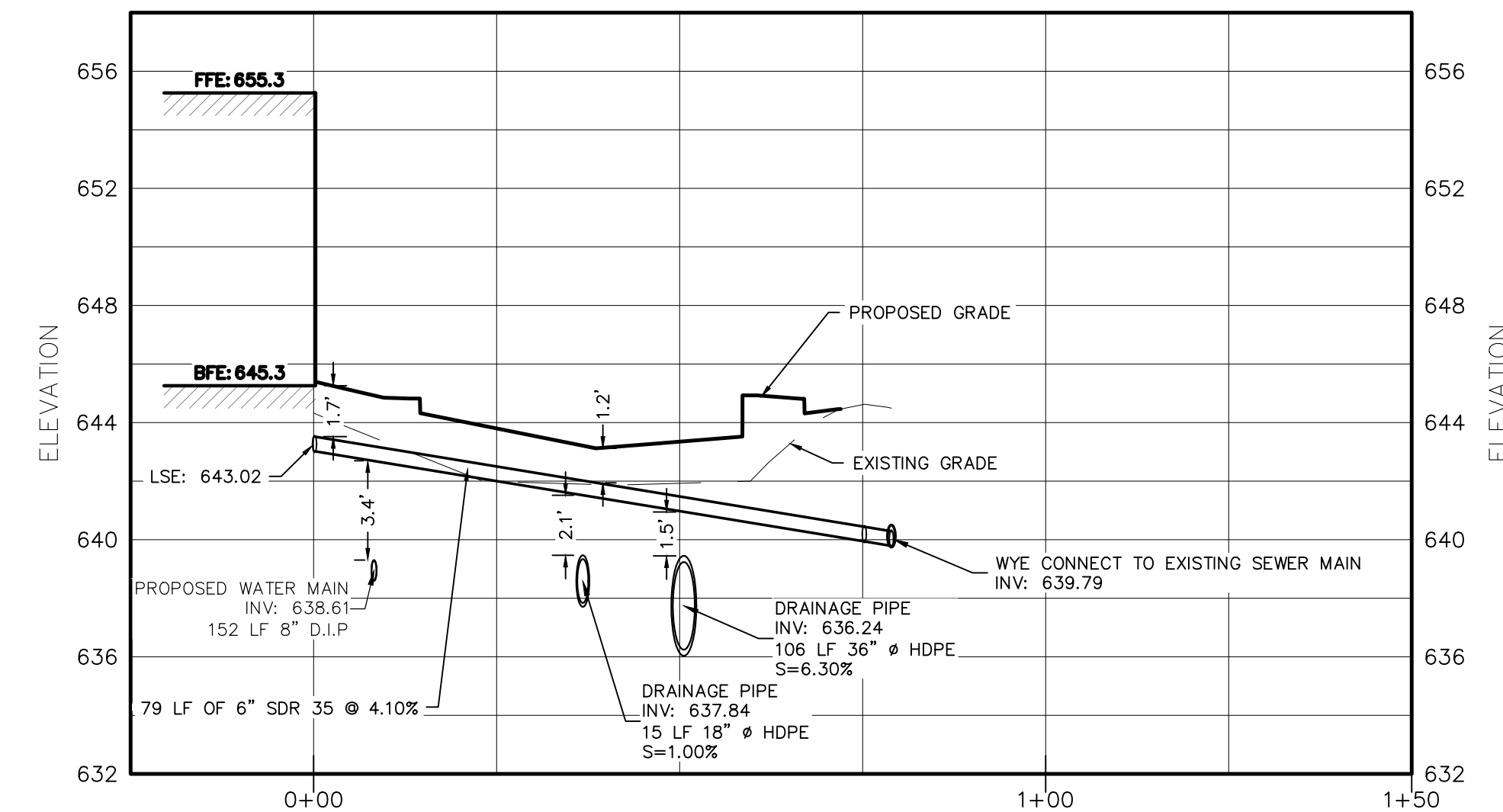
SEWER LATERAL BUILDING #1 PROFILE
HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=5'



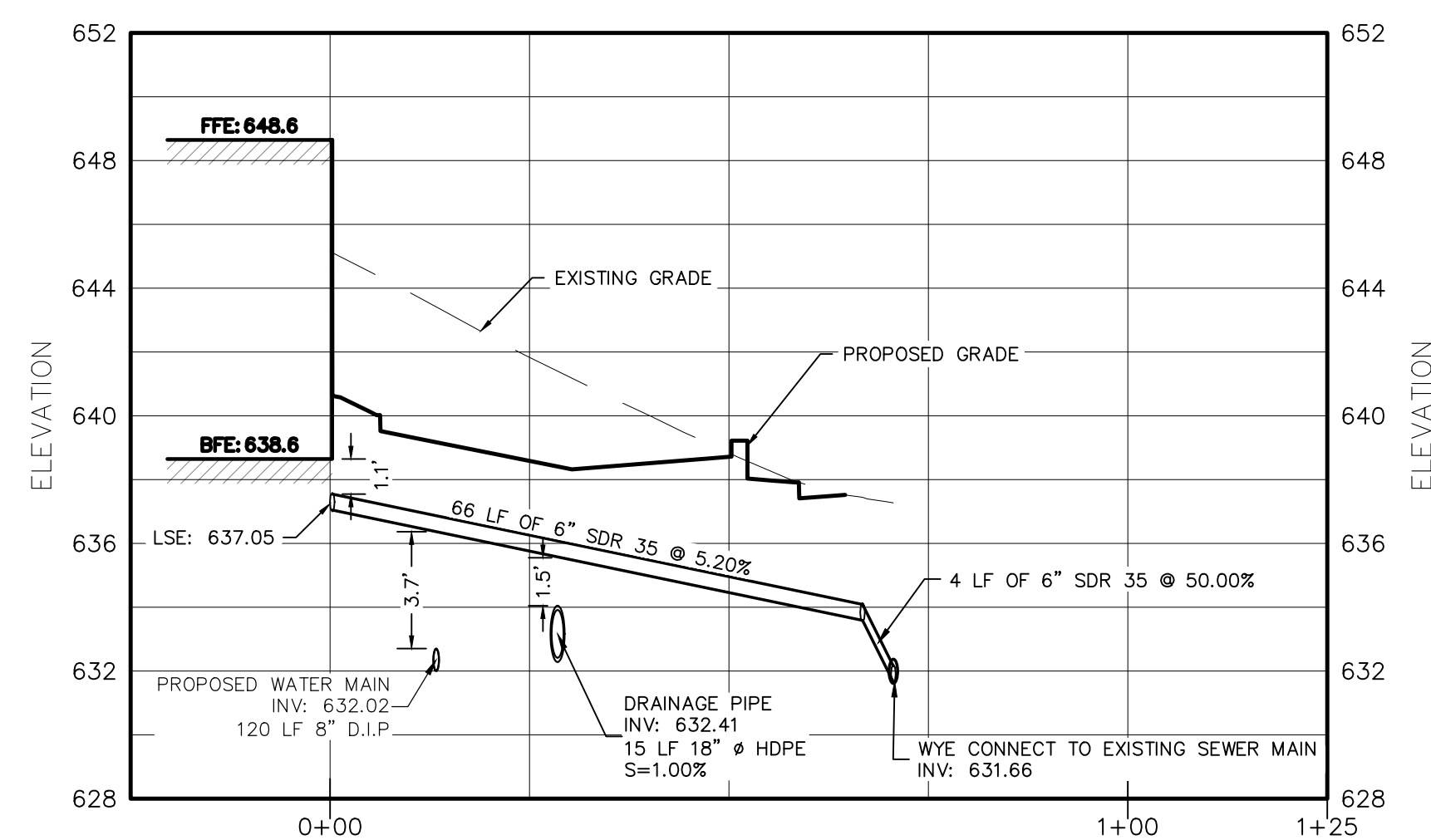
SEWER LATERAL BUILDING #4 PROFILE
HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=5'



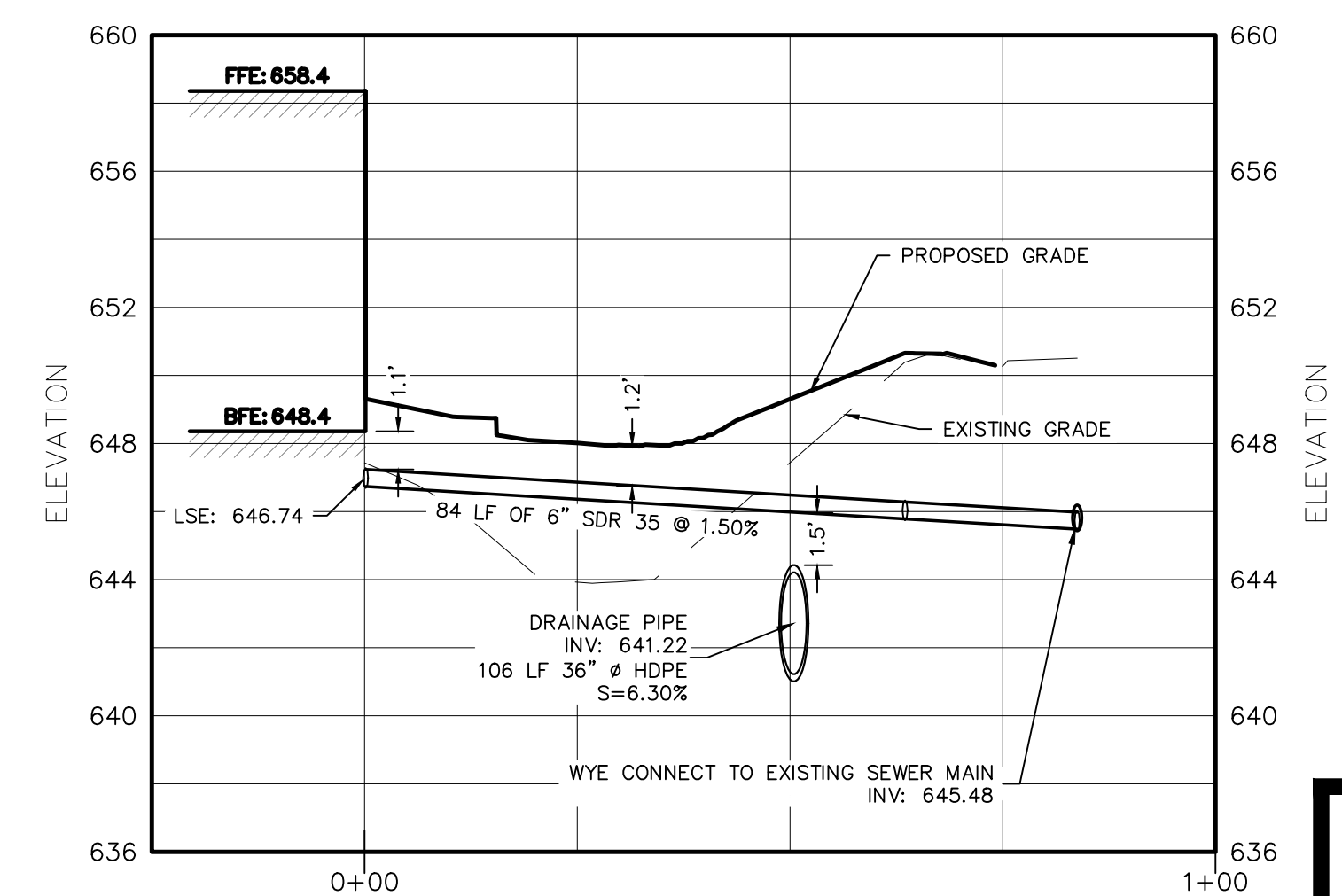
SEWER LATERAL BUILDING #2 PROFILE
HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=5'



SEWER LATERAL BUILDING #5 PROFILE
HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=5'



SEWER LATERAL BUILDING #3 PROFILE
HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=5'



SEWER LATERAL BUILDING #6 PROFILE
HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=5'

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

TREE CLEARING NOTE:
NO TREE REMOVAL SHALL OCCUR FROM APRIL 1 TO OCTOBER 31 TO MITIGATE POTENTIAL IMPACTS ON INDIANA BAT & NORTHERN LONG EARED BAT.

Udig NY MUST BE CONTACTED PRIOR TO ANY EXCAVATION OR DEMOLITION

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.

REV.	BY	DATE	DESCRIPTION
1.	MM	06-17-25	PER 05-29-2025 FES COMMENT LETTER
THIS SHEET IS NOT VALID WITHOUT ALL OF THE SHEETS THAT COMPRISE THE SET			
COPYRIGHT 2025, ARDEN CONSULTING ENGINEERS, P.L.L.C. - ALL RIGHTS RESERVED			

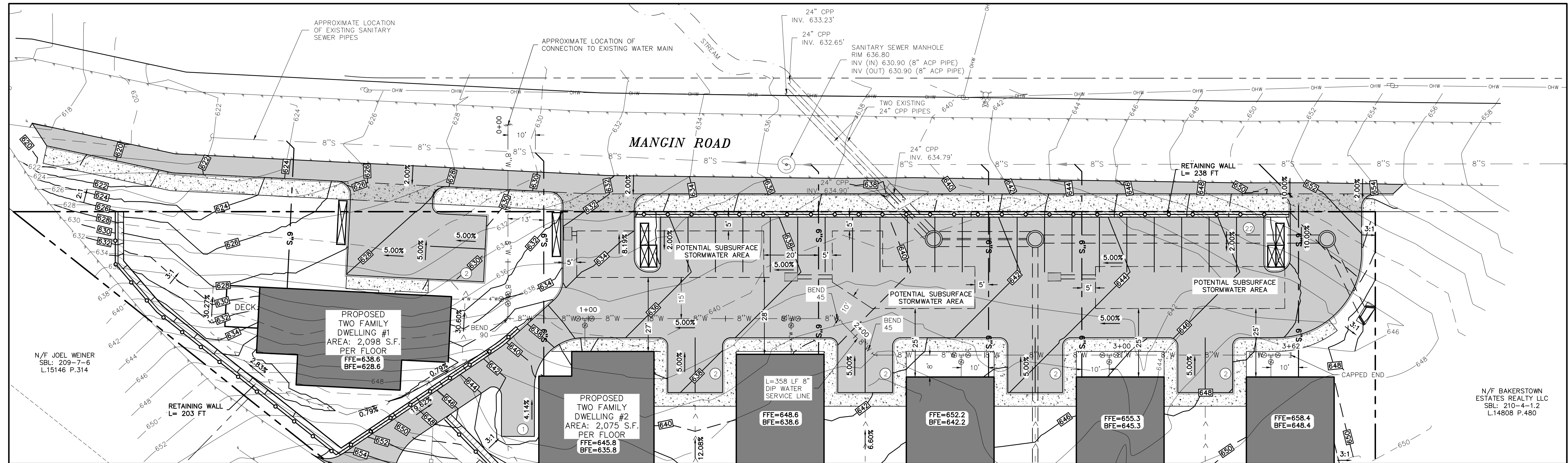
ARDEN CONSULTING ENGINEERS, PLLC
P.O. BOX 340 MONROE, N.Y.
TEL: (845) 782-8114
WWW.ARDENCONSULTING.NET

SITE PLAN PREPARED FOR
40 MANGIN ROAD
VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

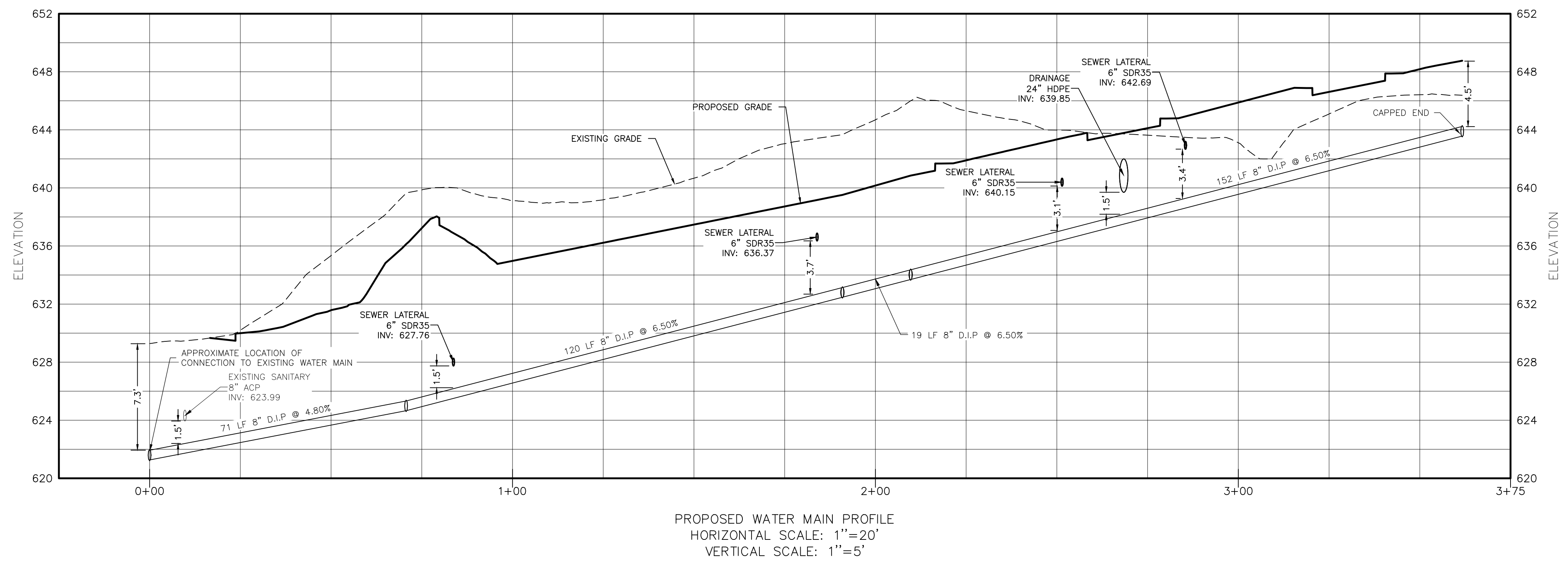
SEWER LATERAL PROFILE

JOB#: 25-041	SCALE: AS NOTED
DATE: 04-04-25	DRAWN: MM
CHECKED: MM	SHEET NO: 07 OF 19

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



PROPOSED WATER MAIN PLAN
SCALE: 1"=20'



PROPOSED WATER MAIN PROFILE
HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=5'

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.

TREE CLEARING NOTE:
NO TREE REMOVAL SHALL OCCUR FROM APRIL 1 TO OCTOBER 31 TO MITIGATE POTENTIAL IMPACTS ON INDIANA BAT & NORTHERN LONG EARED BAT.

Udig NY MUST BE CONTACTED PRIOR TO ANY EXCAVATION OR DEMOLITION

REV.	BY	DATE	DESCRIPTION
1.	MM	06-17-25	PER 05-29-2025 FES COMMENT LETTER
THIS SHEET IS NOT VALID WITHOUT ALL OF THE SHEETS THAT COMPRISE THE SET			
COPYRIGHT 2025, ARDEN CONSULTING ENGINEERS, P.L.L.C. - ALL RIGHTS RESERVED			

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

SITE PLAN PREPARED FOR
40 MANGIN ROAD
VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

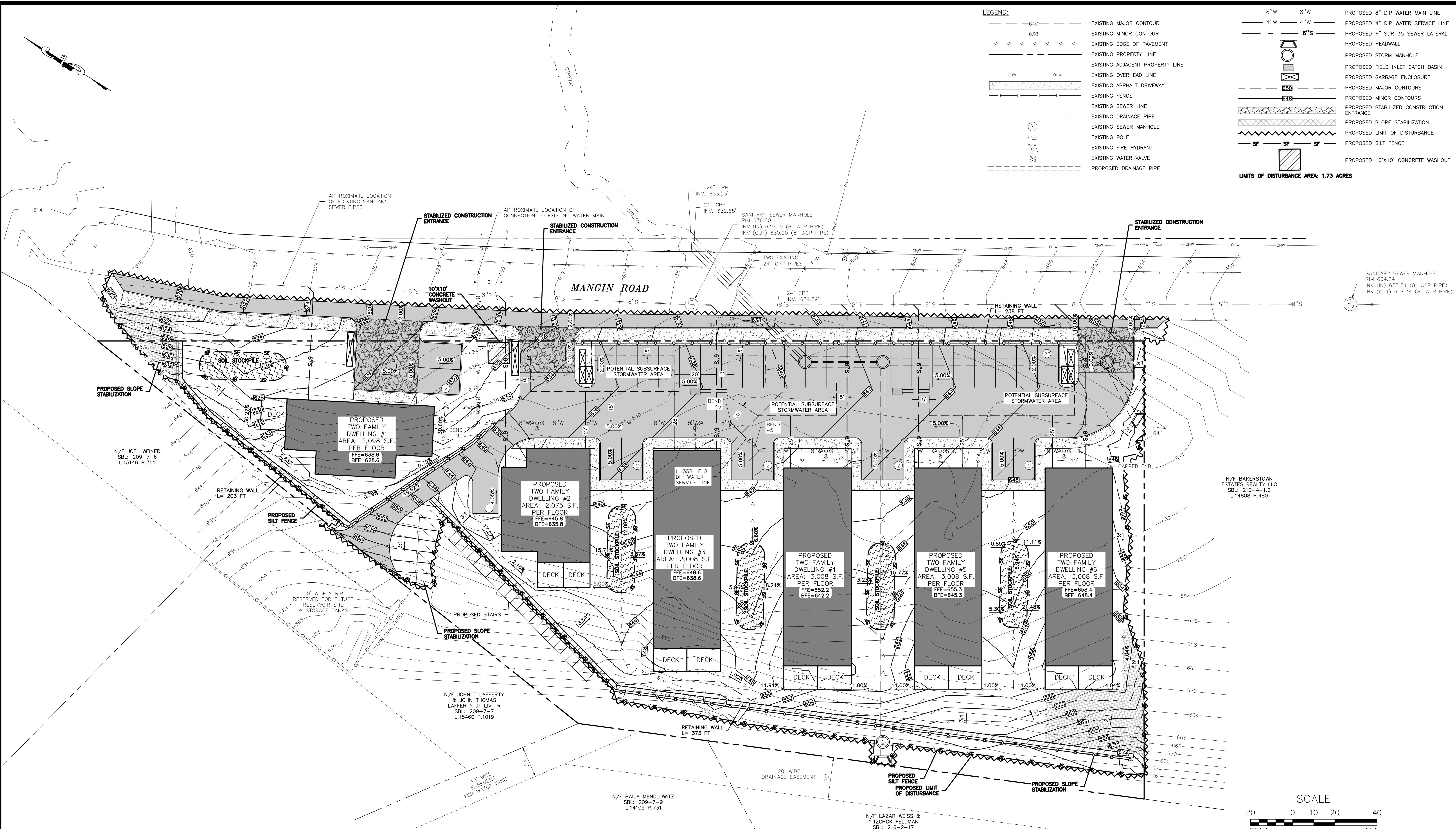
WATER MAIN PROFILE

JOB#: 25-041	SCALE: AS NOTED
DATE: 04-04-25	DRAWN: MM
CHECKED: MM	SHEET NO. 08 OF 19

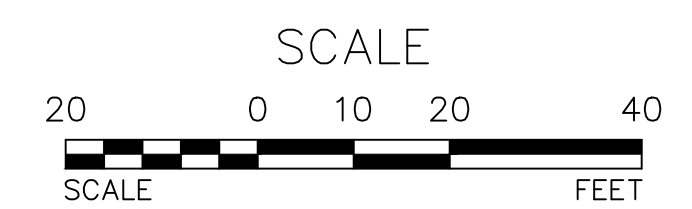
MICHAEL A. MORGANTE, P.E.
LIC. NO. 78577

- LEGEND:**
- 640 --- EXISTING MAJOR CONTOUR
 - 638 --- EXISTING MINOR CONTOUR
 - --- EXISTING EDGE OF PAVEMENT
 - --- EXISTING PROPERTY LINE
 - --- EXISTING ADJACENT PROPERTY LINE
 - --- EXISTING OVERHEAD LINE
 - --- EXISTING ASPHALT DRIVEWAY
 - --- EXISTING FENCE
 - --- EXISTING SEWER LINE
 - --- EXISTING DRAINAGE PIPE
 - --- EXISTING SEWER MANHOLE
 - --- EXISTING POLE
 - --- EXISTING FIRE HYDRANT
 - --- EXISTING WATER VALVE
 - --- PROPOSED DRAINAGE PIPE
 - --- PROPOSED 8" DIP WATER MAIN LINE
 - --- PROPOSED 4" DIP WATER SERVICE LINE
 - --- PROPOSED 6" SDR 35 SEWER LATERAL
 - --- PROPOSED HEADWALL
 - --- PROPOSED STORM MANHOLE
 - --- PROPOSED FIELD INLET CATCH BASIN
 - --- PROPOSED GARBAGE ENCLOSURE
 - --- PROPOSED MAJOR CONTOURS
 - --- PROPOSED MINOR CONTOURS
 - --- PROPOSED STABILIZED CONSTRUCTION ENTRANCE
 - --- PROPOSED SLOPE STABILIZATION
 - --- PROPOSED LIMIT OF DISTURBANCE
 - --- PROPOSED SILT FENCE
 - --- PROPOSED 10'X10' CONCRETE WASHOUT

LIMITS OF DISTURBANCE AREA: 1.73 ACRES



EROSION & SEDIMENT CONTROL PLAN
SCALE: 1"=20'



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

TREE CLEARING NOTE:
NO TREE REMOVAL SHALL OCCUR FROM APRIL 1 TO OCTOBER 31 TO MITIGATE POTENTIAL IMPACTS ON INDIANA BAT & NORTHERN LONG EARED BAT.

UDig NY MUST BE CONTACTED PRIOR TO ANY EXCAVATION OR DEMOLITION

REV.	BY	DATE	DESCRIPTION
1.	MM	06-17-25	PER 05-29-2025 FES COMMENT LETTER

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

COPYRIGHT 2025, ARDEN CONSULTING ENGINEERS, P.L.L.C. - ALL RIGHTS RESERVED

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

SITE PLAN PREPARED FOR
40 MANGIN ROAD
VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

EROSION & SEDIMENT CONTROL PLAN

JOB#: 25-041
SCALE: AS NOTED
DATE: 04-04-25
DRAWN: MM
CHECKED: MM
SHEET NO. 09 OF 19

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

BEST MANAGEMENT PRACTICES FOR SITE FACILITY MAINTENANCE

THE OWNER WILL BE RESPONSIBLE FOR THE MAINTENANCE AND OPERATION OF ALL SITE RELATED FACILITIES, INCLUDING THE STORM WATER SEDIMENT AND DETENTION BASINS AND THE FOLLOWING MEASURES AND/OR STRUCTURES, AS APPLICABLE AND SHOWN ON THE PLANS:

WATER QUALITY INLETS

1. WATER QUALITY INLETS SHALL BE CLEANED OUT AT LEAST TWICE A YEAR TO REMOVE POLLUTANTS. REMOVED MATERIAL SHOULD BE TAKEN TO A TREATMENT PLANT OR APPROVED LANDFILL FOR DISPOSAL.
2. STORM WATER INLETS THROUGHOUT THE SITE SHALL BE INSPECTED ANNUALLY FOR ACCUMULATED SEDIMENT OR OTHER PROBLEMS AND REPAIRED AS NECESSARY.

PARKING AND ROADWAY PAVEMENTS

1. PARKING AREA AND ROADWAY PAVEMENTS SHALL BE SWEEPED ON A REGULAR BASIS TO REMOVE ACCUMULATED SEDIMENT. COLLECTED SEDIMENT SHALL BE REMOVED TO AN APPROVED DISPOSAL SITE WHICH WILL NOT ALLOW THE RE-ENTRANCE OF SILT INTO THE STORM WATER DRAINAGE SYSTEM.

VEGETATIVE STABILIZATION

1. ALL VEGETATIVE PLANTING ON AREAS WHICH HAVE BEEN DISTURBED AND ARE FINISH GRADED SHALL BE INSPECTED AFTER EACH RAIN EVENT. PLANTING (OR SEEDING) SHALL BE MAINTAINED IN A VIABLE CONDITION TO STABILIZE THE SOIL AND TO PREVENT SOIL EROSION. RESTORE ALL SITE PLANTING AND/OR SEEDING WHICH HAS BEEN DAMAGED TO A VIABLE CONDITION.
2. IF VEGETATIVE STABILIZATION HAS BEEN DAMAGED FROM STORM WATER EROSION, CORRECT UPSTREAM CONDITIONS WHICH CAUSED THE EROSION. CHECK DAMS MAY BE REQUIRED IN DRAINAGE WAYS, AND STONE OUTFALL APRONS MAY BE REQUIRED TO BE REPAIRED AT STORM WATER OUTLETS.

CONSTRUCTION ACTIVITY

1. CONSTRUCTION ACTIVITIES WILL OCCUR DURING WEEKDAYS COMMENCING AT 7:00 AM AND TERMINATING AT 6:00 PM

EROSION AND SILTATION CONTROL NOTES:

1. GRADED AREAS – UPPER ELEVATIONS: PROVIDE TEMPORARY DRAINAGE SWALES, 1% GRADE MIN., TO DIRECT RUNOFF AWAY FROM CONSTRUCTION SITES. DISCHARGE AREAS AND ENERGY DISPERSION REQUIREMENTS TO BE ACCEPTABLE TO OWNER.
2. GRADED AREAS – LOWER ELEVATIONS: PROVIDE DRAINAGE SWALES, 1% MIN. GRADES, WITH STAKED AND SECURED HAY BALE BERMS TO PREVENT DOWN STREAM AND DOWN GRADIENT SILTATION.

SEDIMENT & EROSION CONTROL NOTES & CONSTRUCTION SEQUENCING

1. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCES FOR ALL ROAD AND DRIVE ENTRANCES. STREETS SHALL BE CLEANED DAILY.
2. INSTALL SEDIMENT BARRIERS/SWALES/DITCHES/DIKES AT DOWN SLOPE AREAS FROM ALL PROPOSED GRADING OPERATIONS, AND INSTALL OTHER SEDIMENTATION AND EROSION CONTROL STRUCTURES OR MEASURES AS SHOWN ON THE DRAWINGS.
3. LAND DISTURBANCE SHALL BE LIMITED TO ONLY THAT AREA NECESSARY FOR DEVELOPMENT. NO MORE THAN FIVE (5) ACRES OF UNPROTECTED SOIL SHALL BE DISTURBED AT ONE TIME. PREVIOUS EARTHWORK SHALL BE STABILIZED AS SPECIFIED BEFORE ADDITIONAL AREA IS EXPOSED. EXISTING DWELLINGS AND STRUCTURES SHALL BE REMOVED PRIOR TO ANY SITE CLEARING AND SOIL DISTURBANCE.
4. CLEAR EXISTING TREES AND VEGETATION FROM AREAS TO BE EXCAVATED OR FILLED, THEN STRIP AND STOCKPILE TOPSOIL FROM ALL AREAS TO BE DISTURBED. SEED STOCKPILED TOPSOIL WITH TEMPORARY RYEGRASS COVER AS SPECIFIED BELOW (SEE NOTE 8), AND ERECT A SILT FENCE AROUND THE STOCKPILE.
5. PROTECT ALL TREES WHICH ARE TO REMAIN AND WHICH ARE IN OR NEAR CONSTRUCTION AREAS.
6. PERFORM NECESSARY EXCAVATION OR FILL OPERATIONS TO BRING SITE TO DESIRED SUBGRADE.
7. INSTALL SEDIMENT BARRIERS AROUND ALL STORM DRAIN INLETS, OR MODIFY SEDIMENT CONTROL MEASURES INSTALLED IN #2 ABOVE AND MAINTAIN UNTIL ALL DISTURBED AREAS ARE STABILIZED WITH VEGETATION AND ALL PAVEMENTS ARE PAVED WITH A BASE COURSE.
8. TEMPORARILY SEED ALL DISTURBED AREAS WHICH WILL REMAIN UNDISTURBED FOR A PERIOD OF 15 DAYS OR MORE AND WHICH WILL NOT BE UNDER CONSTRUCTION WITHIN 30 DAYS IN ACCORDANCE WITH SPECIFICATION FOR VEGETATIVE ESTABLISHMENT.
9. IF CONSTRUCTION IS SUSPENDED OR COMPLETED. ALL DISTURBED AREAS SHALL BE SEED AND MULCHED IMMEDIATELY. ALL SLOPES STEEPER THAN ONE ON THREE (V/H) AND PERIMETER TRENCHES AND TRAP EMBANKMENTS SHALL, ON COMPLETION, BE IMMEDIATELY STABILIZED WITH TEMPORARY SEEDING AND MULCHING.
10. AFTER COMPLETION OF SITE CONSTRUCTION, FINE GRADE AND SPREAD TOPSOIL ON ALL LAWN AREAS AND SEED WITH PERMANENT LAWN MIX AS DISCUSSED ON THE SPECIFICATIONS FOR FOR VEGETATIVE ESTABLISHMENT ON THIS SHEET.
11. DURING THE PROGRESS OF CONSTRUCTION, MAINTAIN ALL SEDIMENT TRAPS, BARRIERS, AND FILTERS AS NECESSARY TO PREVENT THEIR BEING CLOGGED UP WITH SEDIMENT.
12. AFTER PAVEMENTS ARE INSTALLED AND PERMANENT VEGETATIVE COVER AND PLANTINGS ARE ESTABLISHED, REMOVE SEDIMENT BARRIERS AND SEED THOSE DISTURBED AREAS.
13. MAINTAIN ALL SEED AND PLANTED AREAS TO INSURE A VIABLE STABILIZED VEGETATIVE COVER.
14. STRUCTURAL MEASURES MUST BE MAINTAINED TO BE EFFECTIVE. IN GENERAL, THESE MEASURES MUST BE PERIODICALLY INSPECTED TO INSURE STRUCTURAL INTEGRITY, TO DETECT VANDALISM DAMAGE, AND FOR CLEANING AND REPAIR WHENEVER NECESSARY.
15. DURING CONSTRUCTION, ALL STRUCTURES SHOULD BE INSPECTED WEEKLY AND AFTER EVERY RAIN. REMOVE ACCUMULATED SEDIMENT AND STOCKPILE AND STABILIZE IN AN AREA NOT SUBJECT TO FURTHER EROSION.
16. AFTER CONSTRUCTION IS COMPLETED, PERMANENT SEDIMENT OR EROSION CONTROL STRUCTURES SHOULD BE INSPECTED AT LEAST SEMI-ANNUALLY AND AFTER EVERY RAIN.

SPECIFICATIONS FOR VEGETATIVE ESTABLISHMENT:

1. PERMANENT SEEDING:
 - A. SEEDBED PREPARATION: AREA TO BE SEED SHALL BE LOOSE AND FRIABLE TO A DEPTH OF AT LEAST 3 INCHES. THE TOP LAYER SHALL BE LOOSENEED BY RAKING, DISKING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING OCCURS. FOR SITES LESS THAN 5 ACRES, APPLY 100 POUNDS OF DOLOMITIC LIMESTONE AND 21 POUNDS OF 10-20-20 FERTILIZER PER 1,000 SF. HARROW OR DISK LIME AND FERTILIZER INTO THE SOIL TO A DEPTH OF AT LEAST 3 INCHES ON SLOPES FLATTER THAN 3:1.
 - B. SEEDING: APPLY 5-6 POUNDS PER 1,000 SF OF SEED MIX BETWEEN FEBRUARY 1 AND MAY 15 OR BETWEEN AUGUST 15 AND OCTOBER 31. APPLY SEED UNIFORMLY ON A MOIST FIRM SEEDBED WITH A CYCLONE SEEDER DRILL, CULTIPACKR SEEDER OR HYDROSEEDER (SLURRY INCLUDES SEEDS AND FERTILIZER, RECOMMENDED ON STEEP SLOPES ONLY). MAXIMUM SEED DEPTH SHOULD BE 1/4 INCH IN CLAYEY SOILS AND 1/2 INCH IN SANDY SOILS WHEN USING OTHER THAN THE HYDROSEEDER METHOD. IRRIGATE IF SOIL MOISTURE IS DEFICIENT TO SUPPORT ADEQUATE GROWTH UNTIL VEGETATION IS FIRMLY ESTABLISHED. SELECT SEED MIXTURES FROM SECTION 3, NYS GUIDELINES FOR URBAN EROSION & SEDIMENT CONTROL.
 - C. MULCHING: MULCH SHALL BE APPLIED TO ALL SEEDED AREAS IMMEDIATELY AFTER SEEDING. DURING THE TIME PERIODS WHEN SEEDING IS NOT PERMITTED, MULCH SHALL BE APPLIED IMMEDIATELY AFTER GRADING. MULCH SHALL BE UNROTTED, UNCHOPPED, SMALL GRAIN STRAW APPLIED AT A RATE OF 2 TONS PER ACRE OR 90 POUNDS PER 1,000 SQUARE FEET (2 BALES). IF A MULCH ANCHORING TOOL IS USED, APPLY 2.5 TONS PER ACRE. MULCH MATERIALS SHALL BE RELATIVELY FREE OF ALL KINDS OF WEEDS AND SHALL BE COMPLETELY FREE OF PROHIBITED NOXIOUS WEEDS. SPREAD MULCH UNIFORMLY, MECHANICALLY, OR BY HAND TO A DEPTH OF 1-2 INCHES.
 - D. SECURING STRAW MULCH: STRAW MULCH SHALL BE SECURED IMMEDIATELY FOLLOWING MULCH APPLICATIONS TO MINIMIZE MOVEMENT OF WIND OR WATER. THE FOLLOWING METHODS ARE PERMITTED:
 - i. USE A MULCH ANCHORING TOOL WHICH IS DESIGNED TO PUNCH AND ANCHOR FABRIC TYPE MULCH INTO THE SOIL SURFACE TO A MINIMUM DEPTH OF 2 INCHES. THIS IS THE MOST EFFECTIVE METHOD FOR SECURING MULCH. HOWEVER, IT IS LIMITED TO RELATIVELY FLAT AREAS WHERE EQUIPMENT CAN OPERATE SAFELY.
 - ii. WOOD CELLULOSE FIBER MAY BE USED FOR ANCHORING STRAW. APPLY THE FIBER BINDER AT A NET DRY WEIGHT OF 750 POUNDS PER ACRE. IF MIXED WITH WATER, USE 50 POUNDS OF WOOD CELLULOSE FIBER PER 100 GALLONS OF WATER.
 - iii. LIQUID BINDERS MAY BE USED AND APPLIED HEAVIER AT THE EDGES WHERE WIND CATCHES MULCH, SUCH AS IN VALLEYS AND ON CRESTS OF SLOPES. THE REMAINDER OF THE AREA SHOULD APPEAR UNIFORM AFTER BINDER APPLICATION.
 - iv. LIGHTWEIGHT NETTING, MAY BE USED TO SECURE MULCH. THE NETTING WILL BE STAPLED TO THE GROUND ACCORDING TO MANUFACTURERS' RECOMMENDATIONS.
2. TEMPORARY SEEDING:
 - LIME: 100 POUNDS OF DOLOMITIC LIMESTONE PER 1,000 SF
 - FERTILIZER: 15 POUNDS OF 10-10-10 PER 1,000 SF
 - SEED: PERENNIAL RYE-0.92 POUNDS PER 1,000 SF
3. FILL:
 - NO FILLS MAY BE PLACED ON FROZEN GROUND. ALL FILL TO BE PLACED IN APPROXIMATELY HORIZONTAL LAYERS, EACH LAYER HAVING A LOOSE THICKNESS OF NOT MORE THAN 8 INCHES. ALL FILL IN ROADWAYS AND PARKING AREAS IS TO BE CLASSIFIED TYPE 2 COMPACTED TO 90% DENSITY; COMPACTION TO BE DETERMINED BY ASTM D-1557-66T (MODIFIED PROCTOR). ANY FILL WITHIN THE BUILDING AREA IS TO BE COMPACTED TO A MINIMUM OF 95% AS DETERMINED BY METHODS PREVIOUSLY MENTIONED. FILLS FOR POND EMBANKMENTS SHALL BE COMPACTED AS PER THE PROJECT ENGINEER'S SPECIFICATIONS. ALL OTHER FILLS SHALL BE COMPACTED SUFFICIENTLY SO AS TO BE STABLE AND PREVENT EROSION AND SLIPPAGE.
4. PERMANENT SOD:
 - INSTALLATION OF SOD SHOULD FOLLOW THE PERMANENT SEEDING DATES. PERMANENT SOD IS TO BE STATE APPROVED SOD; LIME AND FERTILIZER PER PERMANENT SEEDING SPECIFICATIONS AND LIGHTLY IRRIGATE SOIL PRIOR TO LAYING SOD. SOD IS TO BE LAID ON THE CONTOUR WITH ALL ENDS TIGHTLY ABUTTING. JOINTS ARE TO BE STAGGERED BETWEEN ROWS. WATER AND ROLL OR TAMP SOD TO INSURE POSITIVE ROOT CONTACT WITH THE SOIL. ALL SLOPES STEEPER THAN 3:1, AS SHOWN, ARE TO BE PERMANENTLY SODDED OR PROTECTED WITH APPROVED EROSION CONTROL NETTING. ADDITIONAL WATERING FOR ESTABLISHMENT MAY BE REQUIRED. SOD IS NOT TO BE APPLIED ON FROZEN GROUND. SOD SHALL NOT BE HARVESTED OR TRANSPLANTED WHEN MOISTURE CONTENT (DRY OR WET) AND/OR EXTREME TEMPERATURE MAY ADVERSELY AFFECT ITS SURVIVAL. IN THE ABSENCE OF ADEQUATE RAINFALL, IRRIGATION SHOULD BE PERFORMED TO INSURE ESTABLISHED SOD.

SLOPE STABILIZATION, SEEDING METHOD & MULCHING

SLOPES OR 4:1 OR GREATER (HORIZONTAL : VERTICAL)

SLOPES SHALL BE HYDROSEEDED WITH THE MIXTURES AND RATES INDICATED IN THE PERMANENT SEEDING MIXTURE SCHEDULE. STRAW OR HAY MULCH SHALL BE APPLIED AT A RATE OF 2,000 LBS./ACRE. STRAW OR HAY MULCH SHALL BE ANCHORED WITH BioD-Mesh60 NETTING AS MANUFACTURED BY ROLANKA INTERNATIONAL OR APPROVED EQUIVALENT. NETTING TO BE INSTALLED PER MANUFACTURER SPECIFICATIONS.

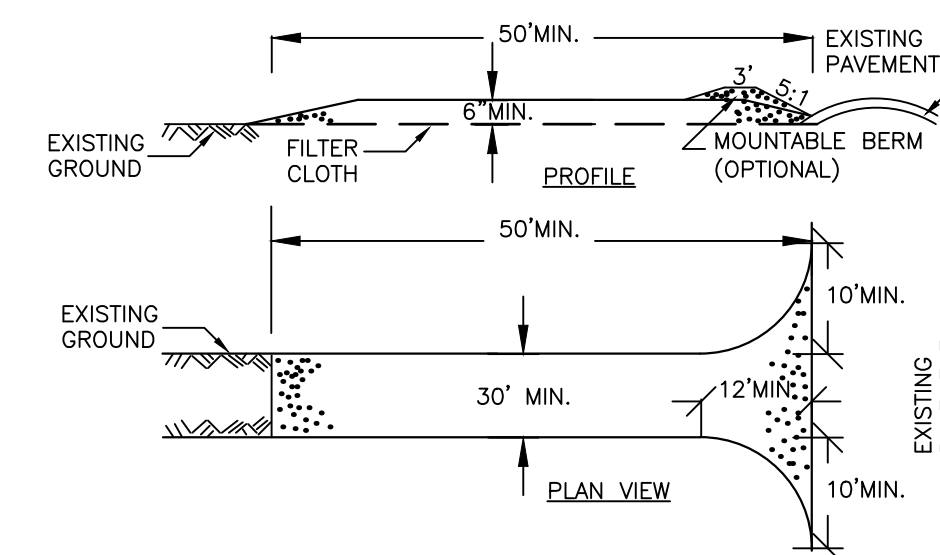
GENTLE SLOPE AND FLAT AREAS

AREA SHALL BE SEED BY HYDROSEEDING OR BROADCASTING WITH THE MIXTURES AND RATES INDICATED ON THE PERMANENT SEEDING MIXTURE SCHEDULE. HYDROSEEDED AREAS SHALL BE MULCHED WITH A WOOD FIBER MULCH APPLIED AT A RATE OF 500 LBS./ACRE. BROADCAST AREAS SHALL BE MULCHED WITH HAY OR STRAW AT A RATE OF 2,000 LBS./ACRE. AREAS SEED BY BROADCASTING SHALL BE LIGHTLY RAKED AND PAVED PRIOR TO PLACING MULCH.

AREAS REMAINING DISTURBED FOR 20 DAYS OR MORE SHALL BE STABILIZED AS FOLLOWS:

- SCARIFY SOILS IF COMPACTED, LIME TO pH OF 6.0 IF REQUIRED, FERTILIZE WITH 600 LBS./ACRE. 5-10-10 FERTILIZER IF REQUIRED. SEED WITH SPECIES AND RATE SHOWN BELOW. MULCH WITH HAY OR STRAW AT A RATE OF 2,000 LBS./ACRE. ANCHOR MULCH WITH NETTING OF WOOD FIBER OR JUTE IF STEEP SLOPE OR HIGH POTENTIAL FOR EROSION.

SPECIES	APPLICATION RATE
RYEGRASS (ANNUAL OR PERENNIAL) (USE WINTER RYE IF SEEDING IN OCT./NOV.)	30 LBS./ACRE (0.7 LBS./1,000 SF)

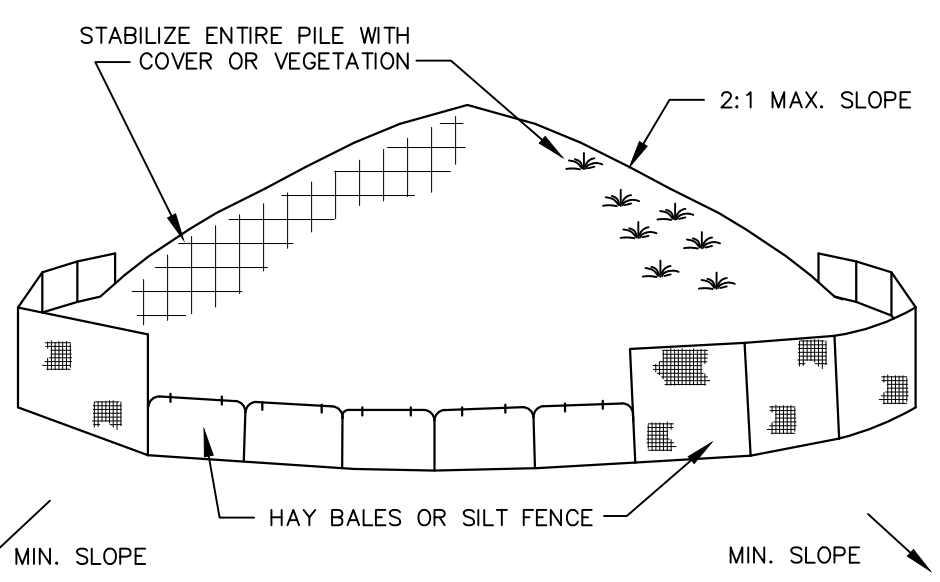


CONSTRUCTION SPECIFICATIONS

1. STONE SIZE – USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH – NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
3. THICKNESS – NOT LESS THAN SIX (6) INCHES.
4. WIDTH – TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
5. FILTER CLOTH – WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER – ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE – THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY, ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON A AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

STABILIZED CONSTRUCTION ENTRANCE

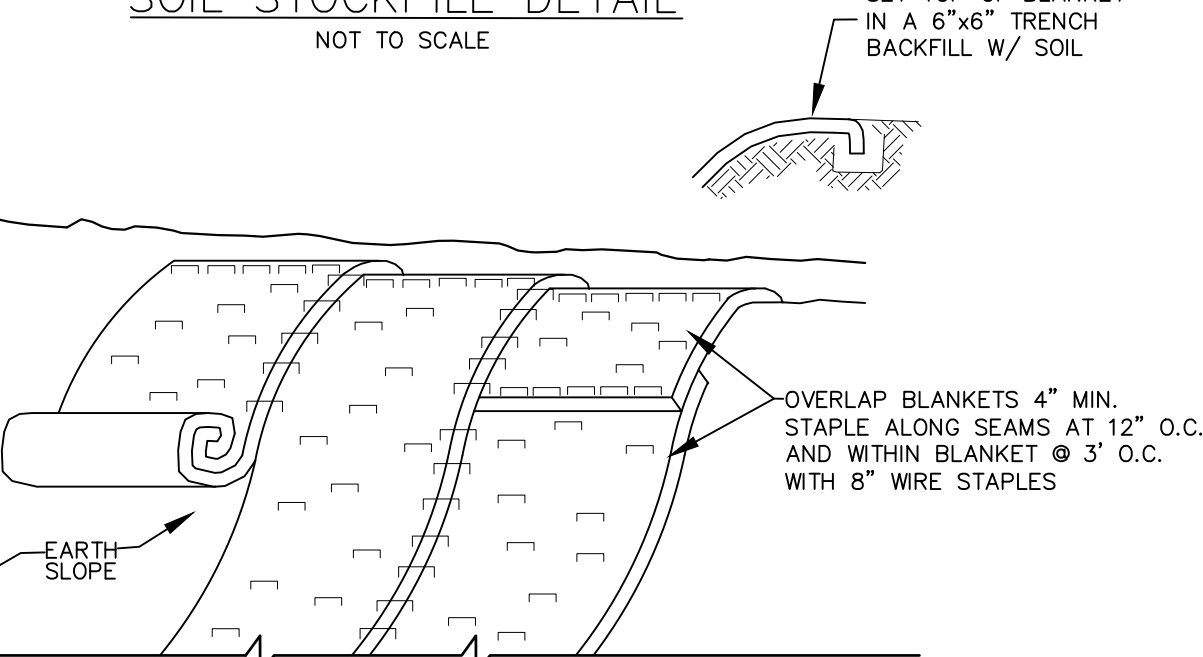
NOT TO SCALE
FOR CONSTRUCTION SPECIFICATIONS REFER TO "NY GUIDELINES FOR URBAN EROSION AND SEDIMENT CONTROL"



INSTALLATION NOTES:

1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE
2. MAXIMUM SLOPE OF STOCKPILES SHALL BE 2:1.
3. UPON COMPLETION OF SOIL STOCKPILES EACH PILE SHALL BE SURROUNDED WITH EITHER SILT FENCING OR HAY BALES, THEN STABILIZED WITH VEGETATION OR COVERED.
4. SEE SPECIFICATIONS FOR INSTALLATION OF SILT FENCE.

SOIL STOCKPILE DETAIL

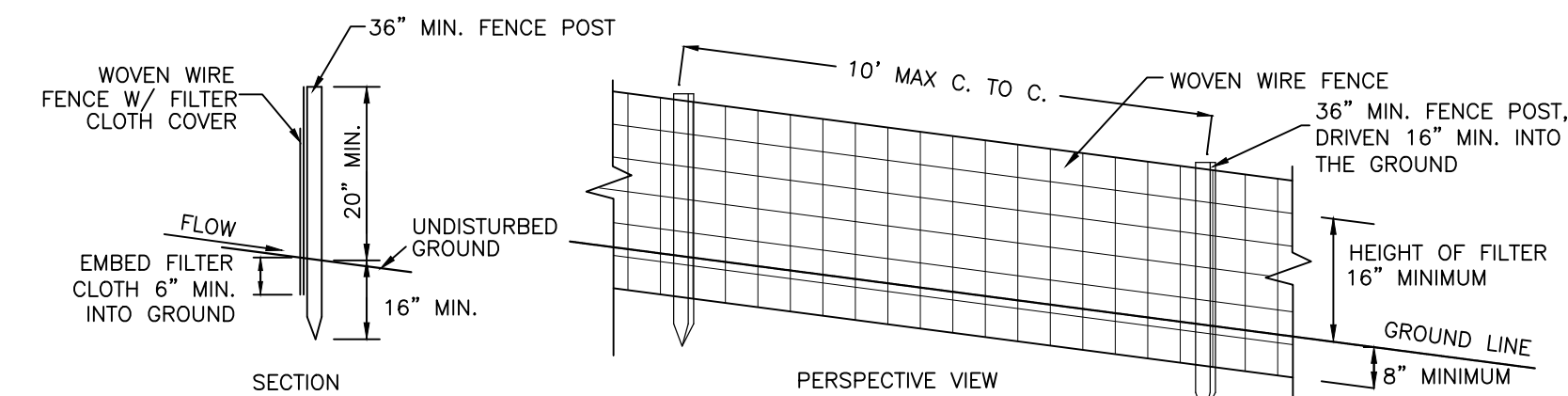


SLOPE STABILIZATION DETAIL

NOT TO SCALE

- NOTES:**
1. STABILIZE PREPARED EARTHEN SLOPE WITH A BIODEGRADABLE NATURAL FIBER NETTING APPROVED TYPES ARE AS FOLLOWS:
 - C350 –NORTH AMERICAN GREEN #1-800-772-2040
 - EGOCOR 9000 – EASTERN PRODUCTS, INC. #1-201-234-5050
 - ERG-MAT V125C- EROSION CONTROL TECH. #1-800-245-0551
 - ALL SLOPE RESTORATION TO GET 4" TOPSOIL
 2. SEED SLOPE PRIOR TO INSTALLING EROSION CONTROL NETTING.
 3. AFTER NETTING IS INSTALLED, PLANT GROUND-COVER, TREES & FORSYTHIA THROUGH SLITS CUT IN FABRIC.

REV.	BY	DATE	DESCRIPTION
1.	MM	06-17-25	PER 05-29-2025 FES COMMENT LETTER
THIS SHEET IS NOT VALID WITHOUT ALL OF THE SHEETS THAT COMPRISE THE SET			
COPYRIGHT 2025, ARDEN CONSULTING ENGINEERS, P.L.L.C. – ALL RIGHTS RESERVED			

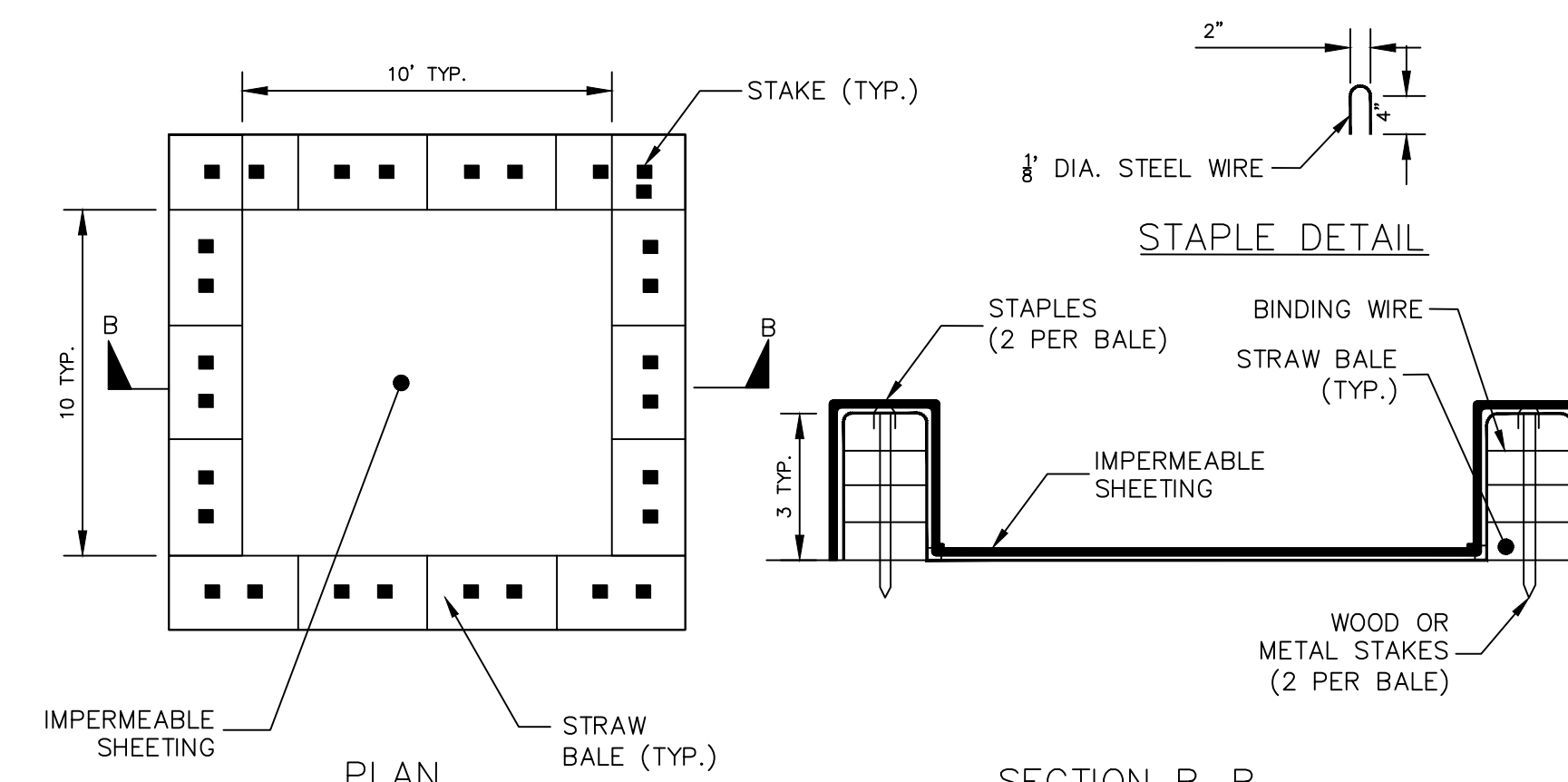


CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POST WITH WIRE TIES OR STAPLES.
 2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
 3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY 6" AND FOLDED.
 4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN 'BULGES' DEVELOP IN THE SILT FENCE.
- POST: STEEL EITHER 'T' OR 'U' TYPE OR 2" HARDWOOD FENCE: WOVEN WIRE, 14 1/2 GA. 6" MAX. MESH OPENING FILTER CLOTH: FILER X, MIRAFI 100X, STABILINKA 1140X OR APPROVED EQUAL PREFABRICATED UNIT: GEOFOAB, ENVIROFENCE, OR APPROVED EQUAL.

SILT FENCE DETAIL

NOT TO SCALE



CONCRETE WASHOUT AREA WITH STRAW BALES

NOT TO SCALE

NOTE:

CAN BE TWO STACKED BALES OR PARTIALLY EXCAVATED TO REACH 3 FT DEPTH

CONSTRUCTION SPECIFICATIONS

1. LOCATE WASHOUT STRUCTURE A MINIMUM OF 50 FEET AWAY FROM OPEN CHANNELS, STORM DRAIN INLETS, SENSITIVE AREAS, WETLANDS, BUFFERS AND WATER COURSES AND AWAY FROM CONSTRUCTION TRAFFIC.
2. SIZE WASHOUT STRUCTURE FOR VOLUME NECESSARY TO CONTAIN WASH WATER AND SCUDS AND MAINTAIN AT LEAST 4 INCHES OF FREEBOARD. TYPICAL DIMENSIONS ARE 10 FEET X 10 FEET X 3 FEET DEEP.
3. PREPARE SOIL BASE FREE OF ROCKS OR OTHER DEBRIS THAT MAY CAUSE TEARS OR HOLES IN THE LINER. FOR LINER, USE 10 MIL OR THICKER UV RESISTANT, IMPERMEABLE SHEETING, FREE OF HOLES AND TEARS OR OTHER DEFECTS THAT COMPROMISE IMPERMEABILITY OF THE MATERIAL.
4. PROVIDE A SIGN FOR THE WASHOUT IN CLOSE PROXIMITY TO THE FACILITY.
5. KEEP CONCRETE WASHOUT STRUCTURE WATER TIGHT, REPLACE IMPERMEABLE LINER IF DAMAGED (EG., RIPPED OR PUNCTURED). EMPTY OR REPLACE WASHOUT STRUCTURE THAT IS 75 PERCENT FULL, AND DISPOSE OF ACCUMULATED MATERIAL PROPERLY. DO NOT REUSE PLASTIC LINER. WET-VACUUM STORED LIQUIDS THAT HAVE NOT EVAPORATED AND DISPOSE OF IN AN APPROVED MANNER. PRIOR TO FORECASTED RAINSTORMS, REMOVE LIQUIDS OR COVER STRUCTURE TO PREVENT OVEFLOW. REMOVE HARDENED SOLIDS, WHOLE OR BROKEN UP, FOR DISPOSAL OR RECYCLING. MAINTAIN RUNOFF DIVERSION AROUND EXCAVATED WASHOUT STRUCTURE UNTIL STRUCTURE IS REMOVED.

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

TREE CLEARING NOTE:

NO TREE REMOVAL SHALL OCCUR FROM APRIL 1 TO OCTOBER 31 TO MITIGATE POTENTIAL IMPACTS ON INDIANA BAT & NORTHERN LONG EARED BAT.

Udig NY MUST BE CONTACTED PRIOR TO ANY EXCAVATION OR DEMOLITION

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

SITE PLAN PREPARED FOR
40 MANGIN ROAD
VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

EROSION & SEDIMENT CONTROL DETAILS

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

JOB#: 25-041
SCALE: AS NOTED
DATE: 04-04-25
DRAWN: MM
CHECKED: MM
SHEET NO. 10 OF 19

SLIMM



Project:	Type:
Prepared By:	Date:

Driver Info	LED Info
Type: Constant Current	Watts: 27/41/55W
120V: 0.23A/0.23A/0.23A/0.23A/0.44A/0.44A	Color Temp: 3000/4000/5000K
208V: 0.13A/0.13A/0.20A/0.25A/0.25A/0.21A	Color Accuracy: 80-83 CRI
240V: 0.11A/0.11A/0.22A/0.23A	L70 Lifespan: 100,000 Hours
277V: 0.11A/0.12A/0.15A/0.16A/0.20A/0.21A	Lumens: 3700/7816 lm
Heat Watts: 26-65W	Efficacy: 123.7-163 lm/W

Technical Specifications

Field Adjustability
Field Adjustable (Wattage):
Field Adjustable Light Output:
55/41/27W (factory default 41)
Color temperature selectable 3000K, 4000K and 5000K (factory default 4000K)
On/Off Photocell (factory default "Off")

Dimming Driver:
Driver includes dimming control wiring for 0-10V dimming systems. Requires separate 0-10V DC dimming circuit. Dims down to 10%.

Photocell:
120-277V selectable photocell that can be turned on and off.

Aux Power Supply:
Yes

Dim to Off:
Yes

Construction
Cold Weather Starting:
The minimum starting temperature is -40°C (-40°F)

Maximum Ambient Temperature:
Suitable for use in up to 40°C (104°F)

Housing:
Die-cast aluminum

Finish:
Formulated for high durability and long-lasting color

Green Technology:
Mercury and UV free. RoHS-compliant components.

Compliance
UL Listed:
Suitable for wet locations

IP Rating:
Ingress protection rating of IP66 for dust and water

Trade Agreements Act Compliant:
This product is a product of Cambodia and a "designated country" end product that complies with the Trade Agreements Act

LED Characteristics
LEDs:
Long life, high efficiency, surface-mount LEDs

Electrical
Driver:
55W: Constant Current, Class 1, 120-277V, 50/60 Hz, 120V: 0.46A, 208V: 0.28A, 240V: 0.24A, 277V: 0.21A
41W: Constant Current, Class 1, 120-277V, 50/60 Hz, 120V: 0.35A, 208V: 0.21A, 240V: 0.19A, 277V: 0.16A
27W: Constant Current, Class 1, 120-277V, 50/60 Hz, 120V: 0.23A, 208V: 0.15A, 240V: 0.13A, 277V: 0.12A

Lens:
Tempered glass

Gaskets:
High-temperature silicone

Need help? Tech help line: (888) 722-1000 Email: techsupport@rablighting.com Website: www.rablighting.com
Copyright © 2025 RAB Lighting All Rights Reserved Note: Specifications are subject to change at any time without notice

ALEDM4T



Project:	Type:
Prepared By:	Date:

Driver Info	LED Info
Type: Constant Current	Watts: 150W
120V: 1.25A	Color Temp: 5000K (Cool)
208V: 0.73A	Color Accuracy: 85 CRI
240V: 0.63A	L70 Lifespan: 100,000 Hours
277V: 0.55A	Lumens: 3700-7816 lm
Input Watts: 75.2/90.6/146.6W	Lumens: 10610/12625/19204 lm
	Efficacy: 141.1/139.3/131 lm/W

Technical Specifications

Field Adjustability
Field Adjustable (Wattage):
Field adjustable light output in 3 discrete steps:
Medium Housing: 150W/90W/78W (factory default 150W)

Dimming Driver:
Driver includes dimming control wiring for 0-10V dimming systems. Requires separate 0-10V DC dimming circuit. Dims down to 10%.

THD:
3.67% at 120V, 8.03% at 277V

Power Factor:
100% at 120V, 95.7% at 277V

Surge Protection:
Line to Line: 10kV
Line to Ground: 6kV

Performance
Lifespan:
100,000-Hour LED lifespan based on IES LM-80 results and TM-21 calculations

Wattage Equivalency:
Equivalent to 400W Metal Halide

Construction
IES Classification:
The Type IV distribution is especially suited for mounting on the sides of buildings and walls, and for illuminating the perimeter of parking areas. It produces a semicircular distribution with essentially the same candlepower at lateral angles from 90° to 270°.

LED Characteristics
LEDs:
Long-life, high-efficiency, discrete, surface-mount LEDs

Color Consistency:
7-step MacAdam Ellipse binning to achieve consistent fixture-to-fixture color

Color Stability:
LED color temperature is warranted to shift no more than 200K in color temperature over a 5-year period

Color Uniformity:
RAB's range of Correlated Color Temperature follows the guidelines of the American National Standard for (SSL) Products, ANSI C78.377-2017.

Electrical
Driver:
78W: Constant Current, Class 2, 120-277V, 50/60 Hz, 120V: 0.65A, 208V: 0.38A, 240V: 0.33A, 277V: 0.29A
90W: Constant Current, Class 2, 120-277V, 50/60 Hz, 120V: 0.75A, 208V: 0.44A, 240V: 0.38A, 277V: 0.33A
150W: Constant Current, Non-Class 2, 120-277V, 50/60 Hz, 120V: 1.25A, 208V: 0.73A, 240V: 0.63A, 277V: 0.55A

Compliance
UL Listed:
Suitable for wet locations

IP Rating:
Ingress protection rating of IP66 for dust and water

Trade Agreements Act Compliant:
This product is a product of Cambodia and a "designated country" end product that complies with the Trade Agreements Act

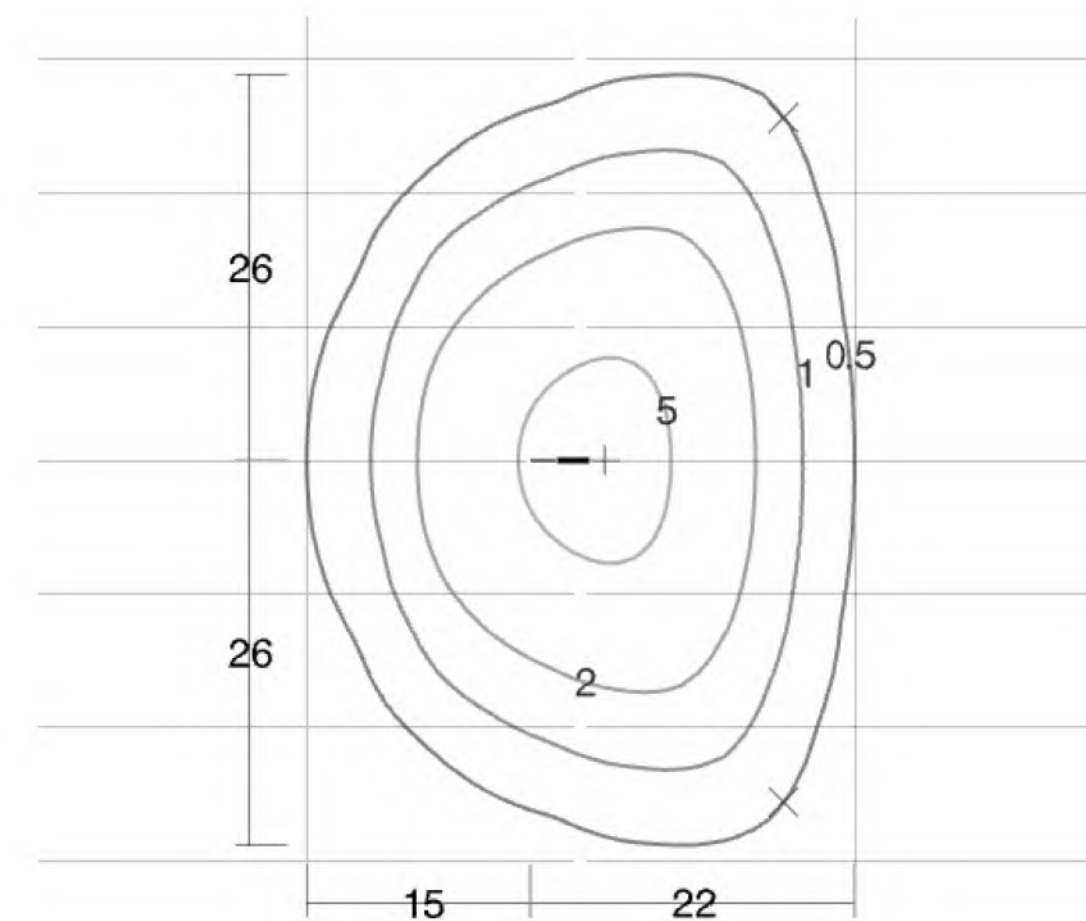
DLC Listed:
This product is listed by Design Lights Consortium (DLC) as an ultra-efficient premium product that qualifies for the highest tier of rebates from DLC Member Utilities. Designed to meet DLC S.1 requirements.
DLC Product Code: SAH016

Need help? Tech help line: (888) 722-1000 Email: techsupport@rablighting.com Website: www.rablighting.com
Copyright © 2025 RAB Lighting All Rights Reserved Note: Specifications are subject to change at any time without notice

slim-m-27w-3000k-angle-20-deg_ntclr24060138.ies
RAB Lighting Inc.
SLIMM @27W3000K angle-20
Outdoor Full-Cutoff Wall-Mounted Area Luminaires
Single (Arm)

Luminaire Watts	27 W
Ballast/Driver Factor	1,00
Light Loss Factor	1,00
Total Proration Factor	1,00
Luminaire Lumens	3933 lms

20 ft



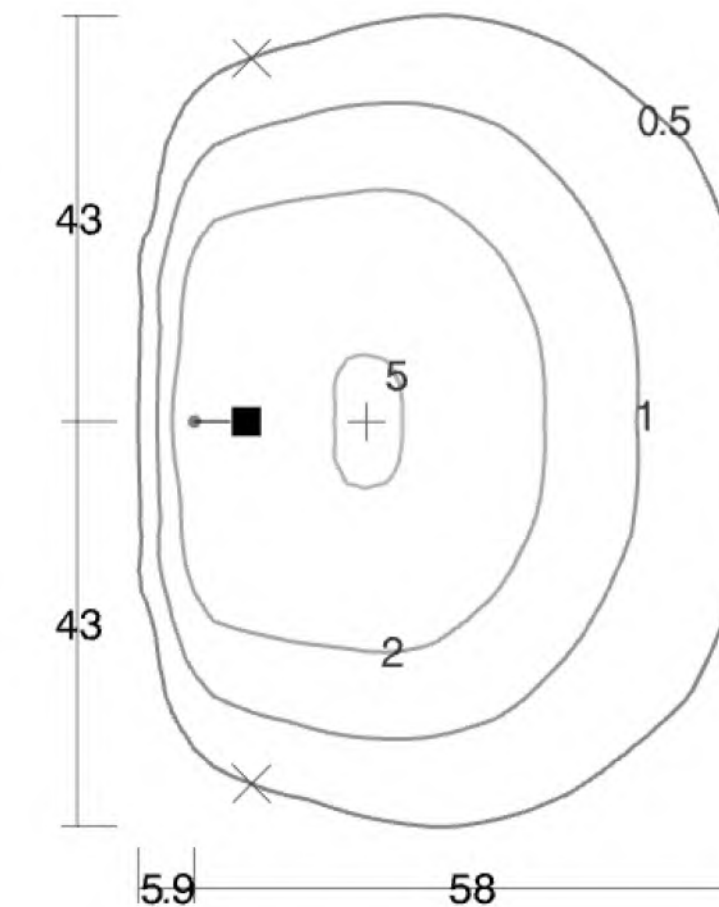
Min: 0.50 fc × Avg: 2.0 fc Max: 6.6 fc +
Max/Avg: 3.2 Avg/Min: 4.1 Max/Min: 13

2025-May-14
Page 1/1

aledm4t-78w-5k-dlf2110112-10amod4t78w.ies
RAB LIGHTING INC.
ALEDM4T
78W/10,000 lm @ 5000K
Single (Arm)

Luminaire Watts	75 W
Ballast/Driver Factor	1,00
Light Loss Factor	1,00
Total Proration Factor	1,00
Luminaire Lumens	10610 lms

20 ft



Min: 0.50 fc × Avg: 1.8 fc Max: 5.3 fc +
Max/Avg: 2.9 Avg/Min: 3.7 Max/Min: 11

2025-May-07
Page 1/1

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

TREE CLEARING NOTE:
NO TREE REMOVAL SHALL OCCUR FROM APRIL 1 TO OCTOBER 31 TO MITIGATE POTENTIAL IMPACTS ON INDIANA BAT & NORTHERN LONG EARED BAT.

Udig NY MUST BE CONTACTED PRIOR TO ANY EXCAVATION OR DEMOLITION

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.

REV.	BY	DATE	DESCRIPTION
1.	MM	06-17-25	PER 05-29-2025 FES COMMENT LETTER
THIS SHEET IS NOT VALID WITHOUT ALL OF THE SHEETS THAT COMPRISE THE SET			
COPYRIGHT 2025, ARDEN CONSULTING ENGINEERS, P.L.L.C. - ALL RIGHTS RESERVED			

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

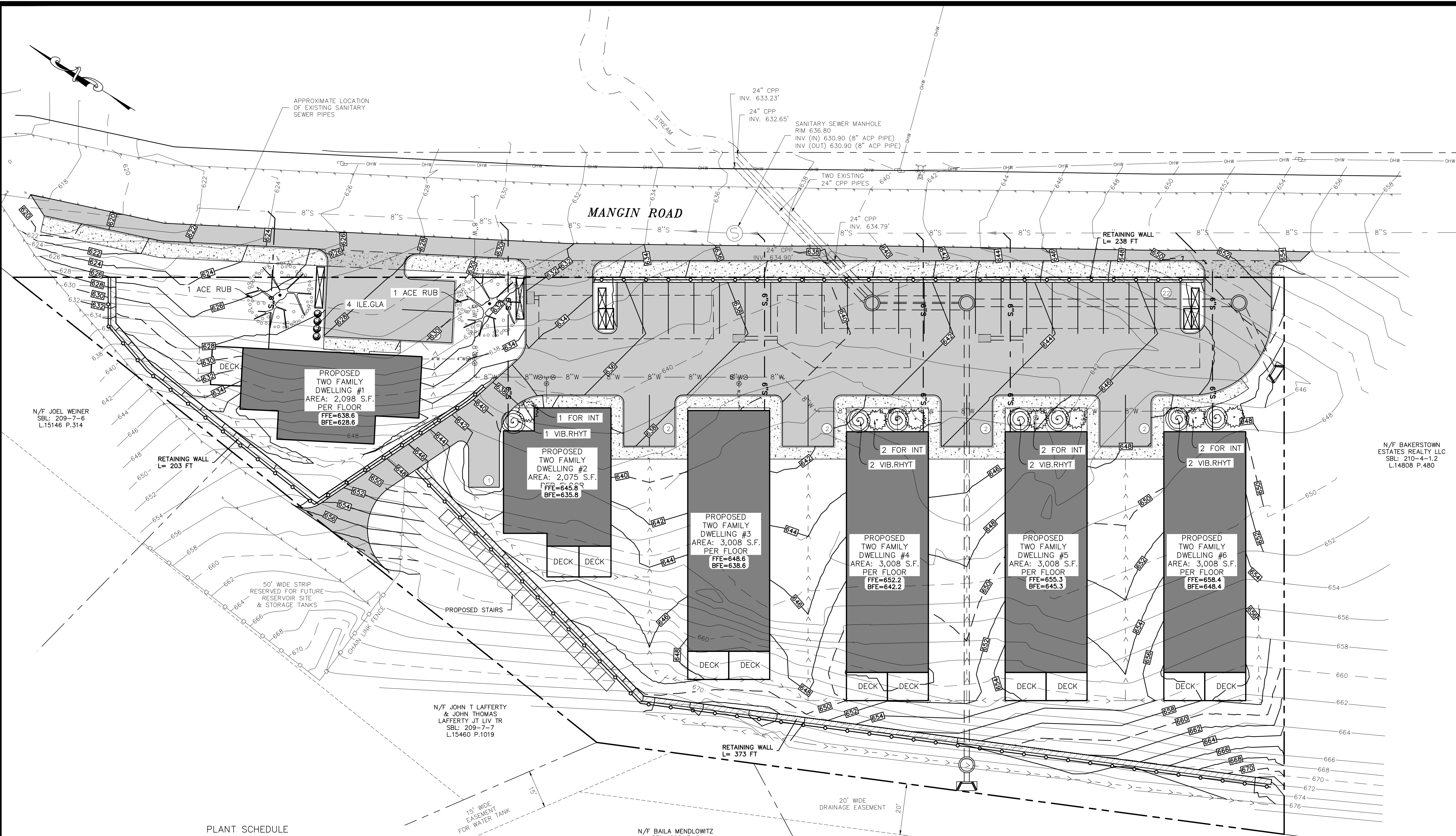
SITE PLAN PREPARED FOR
40 MANGIN ROAD
VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

LIGHTING DETAILS

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

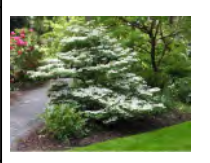
JOB#: 25-041
SCALE: AS NOTED
DATE: 04-04-25
DRAWN: MM
CHECKED: MM
SHEET NO. 12 OF 19

- GENERAL LANDSCAPING NOTES:**
- THE LANDSCAPE CONTRACTOR SHALL FURNISH ALL MATERIALS AND PERFORM ALL WORK IN ACCORDANCE WITH THESE SPECIFICATIONS, APPROVED OR FINAL DRAWINGS, AND INSTRUCTIONS PROVIDED BY THE PROJECT LANDSCAPE DESIGNER, MUNICIPAL OFFICIALS, OR OWNER/OWNER'S REPRESENTATIVE. ALL WORK COMPLETED AND MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH THE INTENTION OF THE SPECIFICATIONS, DRAWINGS, AND INSTRUCTIONS AND EXECUTED WITH THE STANDARD LEVEL OF CARE FOR THE LANDSCAPE INDUSTRY.
 - WORK MUST BE CARRIED OUT ONLY DURING WEATHER CONDITIONS FAVORABLE TO LANDSCAPE CONSTRUCTION AND TO THE HEALTH AND WELFARE OF PLANTS. THE SUITABILITY OF SUCH WEATHER CONDITIONS SHALL BE DETERMINED BY THE PROJECT LANDSCAPE DESIGNER OR GOVERNING MUNICIPAL OFFICIAL.
 - IT IS THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR, BEFORE ORDERING OR PURCHASING MATERIALS, TO PROVIDE SAMPLES TO THE PROJECT LANDSCAPE DESIGNER OR GOVERNING MUNICIPAL OFFICIAL FOR APPROVAL, IF SO REQUESTED.
 - IF SAMPLES ARE REQUESTED, THE LANDSCAPE CONTRACTOR IS TO SUBMIT CERTIFICATION TAGS FROM TREES, SHRUBS AND SEED VERIFYING TYPE AND PURITY.
 - UNLESS OTHERWISE AUTHORIZED BY THE PROJECT LANDSCAPE DESIGNER OR GOVERNING MUNICIPAL OFFICIAL, THE LANDSCAPE CONTRACTOR SHALL PROVIDE NOTICE AT LEAST FORTY-EIGHT HOURS (48 HRS.) IN ADVANCE OF THE ANTICIPATED DELIVERY DATE OF VARIETY PLANT MATERIALS TO THE PROJECT SITE. A LEGIBLE COPY OF THE INVOICE, SHOWING VARIETIES AND SIZES OF MATERIALS INCLUDED FOR EACH SHIPMENT SHALL BE FURNISHED TO THE PROJECT LANDSCAPE DESIGNER, OR GOVERNING MUNICIPAL OFFICIAL.
 - THE PROJECT LANDSCAPE DESIGNER OR GOVERNING MUNICIPAL OFFICIAL RESERVES THE RIGHT TO INSPECT AND REJECT PLANTS AT ANY TIME AND AT ANY PLACE.
 - EXCESS SNOW THAT CANNOT BE ACCOMMODATED WITHIN THE SNOW DUMP AREAS MUST BE REMOVED FROM THE SITE.
- SOIL PREPARATION AND MULCH NOTES:**
- LANDSCAPE CONTRACTOR SHALL OBTAIN A SOIL TEST OF THE IN-SITU TOPSOIL BY A CERTIFIED SOIL LABORATORY PRIOR TO PLANTING. LANDSCAPE CONTRACTOR SHALL ALLOW FOR A TWO WEEK TURNAROUND TIME FROM SUBMITTAL OF SAMPLE TO NOTIFICATION OF RESULTS.
 - BASED ON SOIL TEST RESULTS, ADJUST THE RATES OF LIME AND FERTILIZER RATES PROVIDED WITHIN THE "SEED SPECIFICATION" OR "SOD SPECIFICATION" IS APPROXIMATE AND FOR BIDDING PURPOSES ONLY. IF ADDITIONAL AMENDMENTS ARE NECESSARY, ADJUST THE TOPSOIL AS FOLLOWS:
 - MODIFY HEAVY CLAY OR SILT SOILS (MORE THAN 40% CLAY OR SILT) BY ADDING COMPOSTED PINE BARK (UP TO 30% BY VOLUME) OR GYPSUM.
 - MODIFY EXTREMELY SANDY SOILS (MORE THAN 85% SAND) BY ADDING ORGANIC MATTER AND/OR DRY, SHREDDED CLAY LOAM UP TO 30% OF THE TOTAL MIX.
 - TOPSOIL SHALL BE FERTILE, FRONABLE, NATURAL, TOPSOIL OF LOAMING CHARACTER, WITHOUT ADJURE OF SUBSOIL MATERIAL OBTAINED FROM A WELL-DRAINED AREAS. ALL PLANTING AREAS SHALL BE SPREAD OVER A PREPARED SURFACE IN A UNIFORM LAYER TO ACHIEVE THE DESIRED COMPACTED THICKNESS. THE SPREADING OF TOPSOIL SHALL NOT BE CONDUCTED UNDER MUDDY OR FROZEN SOIL CONDITIONS.
 - TOPSOIL SHALL HAVE A PH RANGE OF 5.0-7.0 AND SHALL NOT CONTAIN LESS THAN 6% ORGANIC MATTER BY WEIGHT.
 - OBTAIN TOPSOIL ONLY FROM LOCAL SOURCES OR FROM AREAS HAVING SIMILAR SOIL CHARACTERISTICS TO THAT FOUND AT THE PROJECT SITE.
 - CONTRACTOR SHALL PROVIDE A SIX INCH (6") DEEP LAYER OF TOPSOIL IN ALL PLANTING AREAS. TOPSOIL SHALL BE SPREAD OVER A PREPARED SURFACE IN A UNIFORM LAYER TO ACHIEVE THE DESIRED COMPACTED THICKNESS. THE SPREADING OF TOPSOIL SHALL NOT BE CONDUCTED UNDER MUDDY OR FROZEN SOIL CONDITIONS.
 - UNLESS OTHERWISE NOTED IN THE CONTRACT, THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF TOPSOIL AND THE ESTABLISHMENT OF FINE-GRADING WITHIN THE DISTURBED AREA OF THE SITE.
 - LANDSCAPE CONTRACTOR SHALL VERIFY THAT THE SUB-GRADE ELEVATION MEETS THE FINISHED GRADE ELEVATION (LESS THE REQUIRED TOPSOIL), IN ACCORDANCE WITH THE APPROVED OR FINAL GRADING PLAN.
 - ALL LAWN AND PLANTING AREAS SHALL BE GRADED TO A SMOOTH, EVEN AND UNIFORM PLANE WITH NO ABRUPT CHANGE OF SURFACE AS DEPICTED WITHIN THE APPROVED OR FINAL CONSTRUCTION SET UNLESS OTHERWISE DIRECTED BY THE PROJECT LANDSCAPE DESIGNER OR MUNICIPAL OFFICIAL.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER SURFACE AND SUBSURFACE PLANT BED DRAINAGE PRIOR TO THE INSTALLATION OF PLANTINGS. IF FLOOR DRAINAGE CONDITIONS REQUIRE CORRECTIVE ACTION SHALL BE TAKEN PRIOR TO INSTALLATION. ALL PLANTING AND LAWN AREAS SHALL BE GRADED AND MAINTAINED TO ALLOW A FREE FLOW OF SURFACE WATER.
 - DOUBLY SHREDDED HARDWOOD MULCH OR APPROVED EQUAL SHALL BE USED AS A THREE INCH (3") TOP DRESSING IN ALL SHRUB PLANTING BEDS AND AROUND ALL TREES PLANTED BY LANDSCAPE CONTRACTOR. GROUND COVER, PERENNIAL, AND ANNUAL PLANTING BEDS SHALL BE MULCHED WITH A TWO INCH (2") TOP DRESSING. SINGLE TREES OR SHRUBS SHALL BE MULCHED TO AVOID CONTACT WITH TRUNK OR PLANT STEM. MULCH SHALL BE OF SUFFICIENT CHARACTER AS NOT TO BE EASILY DISPLACED BY WIND OR WATER RUNOFF.
 - WHENEVER POSSIBLE, THE SOIL PREPARATION AREA SHALL BE CONNECTED FROM PLANTING TO PLANTING.
 - SOIL SHALL BE LOOSENESED WITH A BACKHOE OR OTHER LARGE COARSE-TILING EQUIPMENT UNLESS THE SOIL IS FROZEN OR EXCESSIVELY WET. TILING THAT PRODUCES LARGE, COARSE CHUNKS OF SOIL, PREVENTS TILING THAT RESULTS IN FINE GRAINS UNIFORM IN TEXTURE. AFTER THE AREA IS LOOSENESED IT SHALL NOT BE DRIVEN OVER BY ANY VEHICLE.
 - APPLY PRE-EMERGENT WEED CONTROL TO ALL PLANT BEDS PRIOR TO MULCHING. ENSURE COMPATIBILITY BETWEEN PRODUCT AND PLANT MATERIAL.
 - ALL PLANTING SOIL SHALL BE AMENDED WITH THE FOLLOWING:
 MYCRO® TREE SAVER - A DRY GRANULAR MYCORRHIZAL FUNGI INOCULANT THAT IS MIXED IN THE BACKFILL WHEN PLANTING TREES AND SHRUBS. IT CONTAINS SPORES OF BOTH ECTOMYCORRHIZAL AND VA MYCORRHIZAL FUNGI (VAM), BENEFICIAL RHIZOSPHERE BACTERIA, TERRA-SORB SUPERABSORBENT HYDROGEL TO REDUCE WATER LEACHING, AND SELECTED ORGANIC MICROBIAL NUTRIENTS.
 DIRECTIONS FOR USE: USE 3-02 PER EACH FOOT DIAMETER OF THE ROOT BALL OR 3-02 PER INCH CALIBER. MIX INTO THE BACKFILL WHEN TRANSPORTING TREES AND SHRUBS. MIX PRODUCT IN A RING-SHAPED VOLUME OF SOIL AROUND THE UPPER PORTION OF THE ROOT BALL, EXTENDING FROM THE SOIL SURFACE TO A DEPTH OF ABOUT 8 INCHES, AND EXTENDING OUT FROM THE ROOT BALL ABOUT 8 INCHES INTO THE BACKFILL. APPLY WATER TO SOIL SATURATION.
 MYCRO® TREE SAVER® IS EFFECTIVE FOR ALL TREE AND SHRUB SPECIES EXCEPT RHODODENDRONS, AZALEAS, AND MOUNTAIN LAUREL, WHICH REQUIRE ERICOID MYCORRHIZAE.
 SOIL PH: THE FUNGI IN THIS PRODUCT WERE CHOSEN BASED ON THEIR ABILITY TO SURVIVE AND COLONIZE PLANT ROOTS IN A PH RANGE OF 3 TO 9.
 FUNGICIDES: THE USE OF CERTAIN FUNGICIDES CAN HAVE A DETRIMENTAL EFFECT ON THE INOCULATION PROGRAM. SOIL APPLICATION OF ANY FUNGICIDE IS NOT RECOMMENDED FOR TWO WEEKS AFTER APPLICATION.
 OTHER PESTICIDES: HERBICIDES AND INSECTICIDES DO NOT NORMALLY INTERFERE WITH MYCORRHIZAL FUNGAL DEVELOPMENT, BUT MAY INHIBIT THE GROWTH OF SOME TREE AND SHRUB SPECIES IF NOT USED PROPERLY.



PLANT SCHEDULE

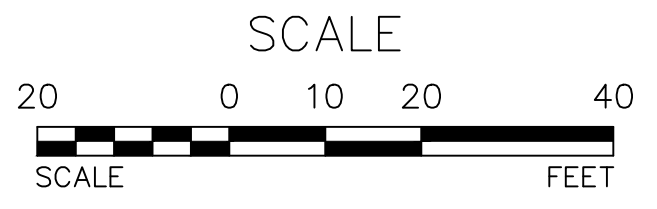
PLANT KEY	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
DECIDUOUS TREES					
ACE. RUB.	2	ACER RUBRUM 'FRANKS RED'	RED SUNSET RED MAPLE	2.5"-3" CAL.	B&B
SHRUBS					
VIB. RHYT.	7	VIBURNUM RHYTIDOPHYLLUM	LEATHERLEAF VIBURNUM	5-6" MIN.	SPACE AS SHOWN
ILE. GLA.	4	ILEX GLABRA COMPACTA	INKBERRY HOLLY	24"+	SPACE AS SHOWN
FOR. INT.	7	FORSYTHIA x INTERMEDIA	FORSYTHIA	5-6" MIN.	SPACE AS SHOWN



LANDSCAPING PLAN
SCALE: 1"=20'

LEGEND:

- 640 --- EXISTING MAJOR CONTOUR
- 636 --- EXISTING MINOR CONTOUR
- EXISTING EDGE OF PAVEMENT
- EXISTING PROPERTY LINE
- EXISTING ADJACENT PROPERTY LINE
- EXISTING OVERHEAD LINE
- EXISTING ASPHALT DRIVEWAY
- EXISTING FENCE
- EXISTING SEWER LINE
- EXISTING DRAINAGE PIPE
- EXISTING SEWER MANHOLE
- EXISTING POLE
- EXISTING FIRE HYDRANT
- EXISTING WATER VALVE
- 8"W --- 8"W --- PROPOSED 8" DIP WATER MAIN LINE
- 4"W --- 4"W --- PROPOSED 4" DIP WATER SERVICE LINE
- 6"S --- PROPOSED 6" SDR 35 SEWER LATERAL
- PROPOSED HEADWALL
- PROPOSED STORM MANHOLE
- PROPOSED FIELD INLET CATCH BASIN
- PROPOSED GARBAGE ENCLOSURE
- PROPOSED MAJOR CONTOURS
- PROPOSED MINOR CONTOURS



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.

TREE CLEARING NOTE:
NO TREE REMOVAL SHALL OCCUR FROM APRIL 1 TO OCTOBER 31 TO MITIGATE POTENTIAL IMPACTS ON INDIANA BAT & NORTHERN LONG EARED BAT.

Udig NY MUST BE CONTACTED PRIOR TO ANY EXCAVATION OR DEMOLITION

REV.	BY	DATE	DESCRIPTION
1.	MM	06-17-25	PER 05-29-2025 FES COMMENT LETTER

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

COPYRIGHT 2025, ARDEN CONSULTING ENGINEERS, P.L.L.C. - ALL RIGHTS RESERVED

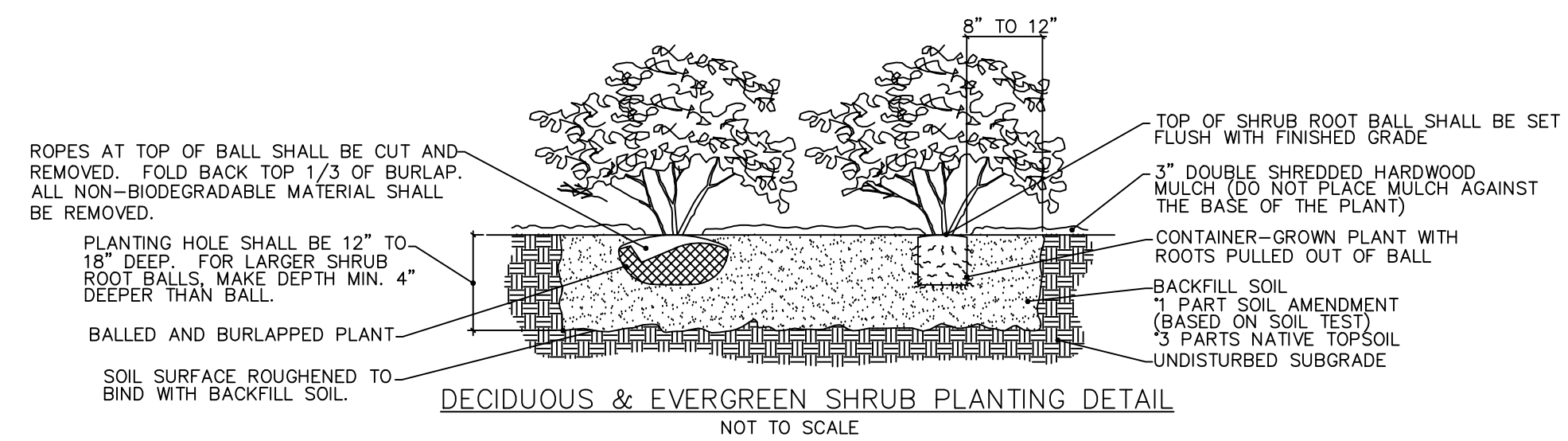
ARDEN CONSULTING ENGINEERS, PLLC
P.O. BOX 340 MONROE, N.Y.
TEL: (845) 782-8114
WWW.ARDENCONSULTING.NET

SITE PLAN PREPARED FOR
40 MANGIN ROAD
VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

LANDSCAPING PLAN

JOB#: 25-041
SCALE: AS NOTED
DATE: 04-04-25
DRAWN: MM
CHECKED: MM
SHEET NO: 13 OF 19

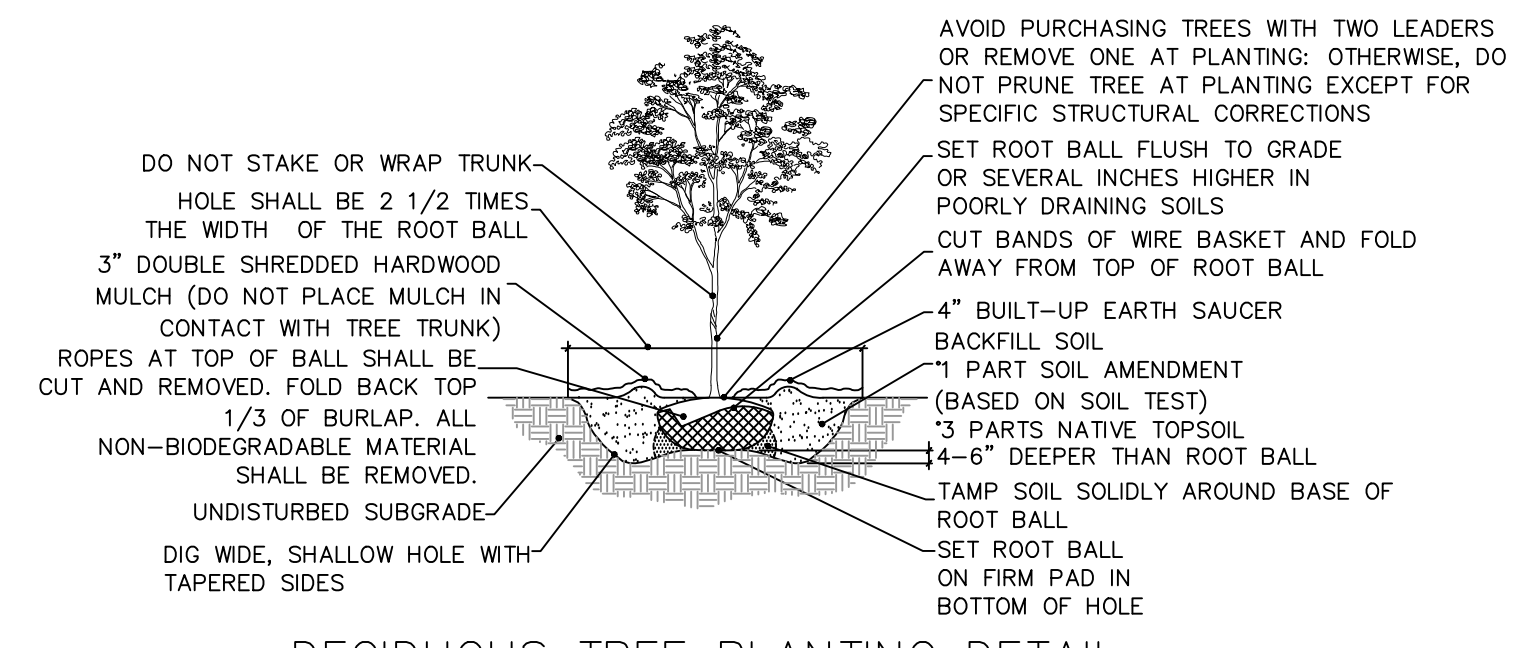
MICHAEL A. MORGANTE, P.E.
LIC. NO. 78577



DECIDUOUS & EVERGREEN SHRUB PLANTING DETAIL
NOT TO SCALE

NOTES:

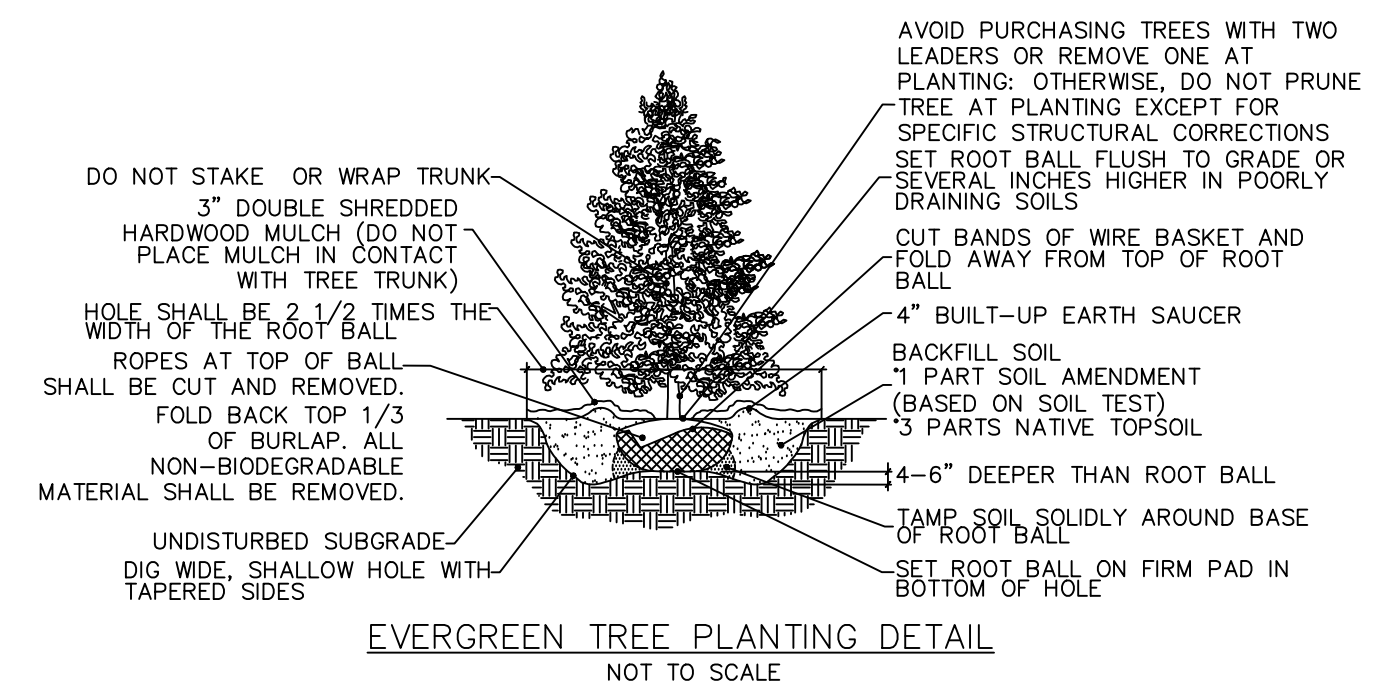
1. THOROUGHLY SOAK THE GROUND COVER ROOT BALL AND ADJACENT PREPARED SOIL SEVERAL TIMES DURING THE FIRST MONTH AFTER PLANTING AND REGULARLY THROUGHOUT THE FOLLOWING TWO SUMMERS.
2. SOIL AMENDMENTS: MODIFY HEAVY CLAY OR SILT SOILS (MORE THAN 40% CLAY OR SILT) BY ADDING COMPOSTED PINE BARK (UP TO 30% BY VOLUME) OR GYPSUM MODIFY EXTREMELY SANDY SOILS (MORE THAN 85% SAND) BY ADDING ORGANIC MATTER AND/OR DRY, SHREDDED CLAY LOAM UP TO 30% OF THE TOTAL MIX.
3. ALL GROUND COVER AREAS SHALL BE TREATED WITH A PRE-EMERGENT PER MANUFACTURER'S SPECIFICATIONS



DECIDUOUS TREE PLANTING DETAIL
NOT TO SCALE

NOTES:

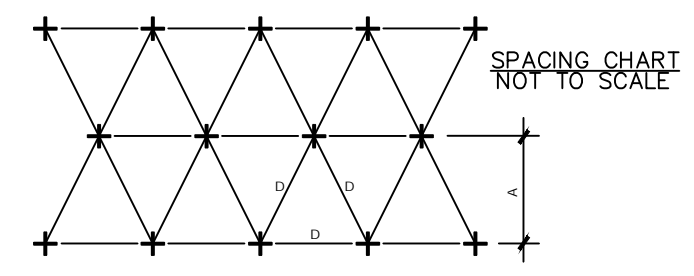
1. FOR CONTAINER-GROWN TREES, USE FINGERS OR SMALL HAND TOOLS TO PULL THE ROOTS OUT OF THE OUTER LAYER OF POTTING SOIL; THEN CUT OR PULL APART ANY ROOTS CIRCLING THE PERIMETER OF THE CONTAINER.
2. THOROUGHLY SOAK THE TREE ROOT BALL AND ADJACENT PREPARED SOIL SEVERAL TIMES DURING THE FIRST MONTH AFTER PLANTING AND REGULARLY THROUGHOUT THE FOLLOWING TWO SUMMERS.
3. SOIL AMENDMENTS:
 - *MODIFY HEAVY CLAY OR SILT SOILS (MORE THAN 40% CLAY OR SILT) BY ADDING COMPOSTED PINE BARK (UP TO 30% BY VOLUME) OR GYPSUM
 - *MODIFY EXTREMELY SANDY SOILS (MORE THAN 85% SAND) BY ADDING ORGANIC MATTER AND/OR DRY, SHREDDED CLAY LOAM UP TO 30% OF THE TOTAL MIX



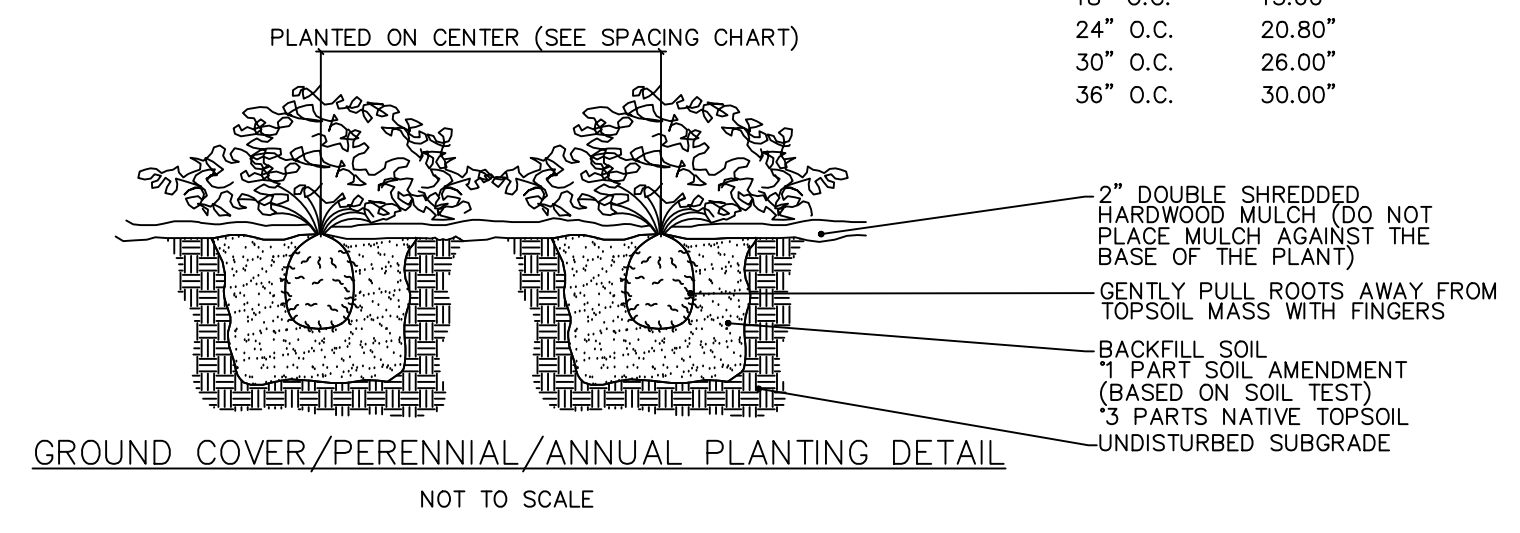
EVERGREEN TREE PLANTING DETAIL
NOT TO SCALE

NOTES:

1. FOR CONTAINER-GROWN TREES, USE FINGERS OR SMALL HAND TOOLS TO PULL THE ROOTS OUT OF THE OUTER LAYER OF POTTING SOIL; THEN CUT OR PULL APART ANY ROOTS CIRCLING THE PERIMETER OF THE CONTAINER.
2. THOROUGHLY SOAK THE TREE ROOT BALL AND ADJACENT PREPARED SOIL SEVERAL TIMES DURING THE FIRST MONTH AFTER PLANTING AND REGULARLY THROUGHOUT THE FOLLOWING TWO SUMMERS.
3. SOIL AMENDMENTS:
 - *MODIFY HEAVY CLAY OR SILT SOILS (MORE THAN 40% CLAY OR SILT) BY ADDING COMPOSTED PINE BARK (UP TO 30% BY VOLUME) OR GYPSUM
 - *MODIFY EXTREMELY SANDY SOILS (MORE THAN 85% SAND) BY ADDING ORGANIC MATTER AND/OR DRY, SHREDDED CLAY LOAM UP TO 30% OF THE TOTAL MIX



SPACING "D"	ROW "A"
6" O.C.	5.20"
8" O.C.	6.93"
10" O.C.	8.66"
12" O.C.	10.40"
15" O.C.	13.00"
18" O.C.	15.60"
24" O.C.	20.80"
30" O.C.	26.00"
36" O.C.	30.00"



GROUND COVER/PERENNIAL/ANNUAL PLANTING DETAIL
NOT TO SCALE

NOTES:

1. FOR CONTAINER-GROWN TREES, USE FINGERS OR SMALL HAND TOOLS TO PULL THE ROOTS OUT OF THE OUTER LAYER OF POTTING SOIL; THEN CUT OR PULL APART ANY ROOTS CIRCLING THE PERIMETER OF THE CONTAINER.
2. THOROUGHLY SOAK THE TREE ROOT BALL AND ADJACENT PREPARED SOIL SEVERAL TIMES DURING THE FIRST MONTH AFTER PLANTING AND REGULARLY THROUGHOUT THE FOLLOWING TWO SUMMERS.
3. SOIL AMENDMENTS:
 - *MODIFY HEAVY CLAY OR SILT SOILS (MORE THAN 40% CLAY OR SILT) BY ADDING COMPOSTED PINE BARK (UP TO 30% BY VOLUME) OR GYPSUM
 - *MODIFY EXTREMELY SANDY SOILS (MORE THAN 85% SAND) BY ADDING ORGANIC MATTER AND/OR DRY, SHREDDED CLAY LOAM UP TO 30% OF THE TOTAL MIX

VILLAGE OF SOUTH BLOOMING GROVE SPECIFICATIONS FOR PLANTING TREES

TREES AND LANDSCAPING MATERIALS SHALL BE AS FOLLOWS:

- (1) TREES SHALL BE BALLED AND BURLAPPED AND SHALL NOT BE LESS THAN 2 1/2 INCHES CALIPER MEASURED SIX INCHES ABOVE THE TOP OF THE BALL NOR LESS THAN 10 FEET HIGH. TREES SHOULD BE NURSERY GROWN AND A NURSERY INSPECTION CERTIFICATE SHOULD BE AVAILABLE COVERING ALL TREES.
- (2) SHRUBS AND HEDGES SHALL BE A MINIMUM OF TWO FEET IN HEIGHT WHEN MEASURED IMMEDIATELY AFTER PLANTING. HEDGES, WHERE REQUIRED, SHALL BE PLANTED AND MAINTAINED SO AS TO FORM A CONTINUOUS, UNBROKEN, SOLID VISUAL SCREEN WITHIN A MAXIMUM OF ONE YEAR AFTER TIME OF PLANTING.
- (3) VINES SHALL BE A MINIMUM OF 30 INCHES IN HEIGHT IMMEDIATELY AFTER PLANTING AND MAY BE USED IN CONJUNCTION WITH FENCES, SCREENS OR WALLS.
- (4) GROUND COVERS USED IN LIEU OF GRASS, IN WHOLE OR IN PART, SHALL BE PLANTED IN SUCH A MANNER AS TO PRESENT A FINISHED APPEARANCE AND REASONABLY COMPLETE COVERAGE WITHIN THREE MONTHS AFTER PLANTING.
- (5) GRASS AREAS SHALL BE PLANTED IN SPECIES NORMALLY GROWN AS PERMANENT LAWNS. GRASS AREAS MAY BE SOODED, PLUGGED OR SEEDED EXCEPT THAT SOO SHALL BE USED IN SWALES OR OTHER AREAS SUBJECT TO EROSION.
- (6) IN THE EVENT THAT THERE ARE NO SIDEWALKS OR CURBS EXISTING OR PROPOSED, THE PERSON OR PARTY SHALL PLANT SHADE TREES IN THE STREET RIGHT-OF-WAY. TREES SHOULD START 15 FEET FROM THE POINT OF CURVATURE OF THE CURB, LOCATED ON THE TANGENT SIDE OF THE CURB, AND SHALL BE APPROXIMATELY 40 FEET APART. TREES SHOULD BE STAGGERED WHEN PLANTED ON OPPOSITE SIDES OF THE SAME STREET. NO TREE SHALL BE LOCATED IN SUCH A MANNER AS TO LIMIT SIGHT DISTANCE ALONG THE ROAD BELOW THE SPECIFIED MINIMUM IN THE HIGHWAY SPECIFICATIONS. [AMENDED 6-13-2017 BY L.L. NO. 5-2017]
- (7) IN GENERAL, EXCAVATIONS FOR PLANTING SHALL BE LARGE ENOUGH TO ACCOMMODATE THE NATURAL SPREAD OF THE ROOT SYSTEM AND AT LEAST ONE FOOT DEEPER AND TWO FEET WIDER THAN THE BALL OR EARTH SUPPLIED WITH THE TREE. THE PIT SHALL BE ROCK FREE AND REFILLED WITH SEVEN PARTS TOPSOIL AND ONE PART HUMUS, AND THE PARENT SOIL SHOULD BE DISCARDED. HARDPAN SHALL BE LOOSEENED AN ADDITIONAL 12 INCHES FROM THE BOTTOM AND SIDE OF THE PIT. TREES SHALL BE ADEQUATELY FERTILIZED AND WATERED AT THE TIME OF PLANTING AND MULCHED WITH THREE INCHES OF APPROVED MULCH IMMEDIATELY AFTER PLANTING.
- (8) REMOVAL OF DEBRIS IS REQUIRED. THE PROPERTY MUST BE LEFT IN A NEAT AND ORDERLY CONDITION IN ACCORDANCE WITH GOOD AND ACCEPTED PLANTING AND TREE SURGERY PRACTICE.
- (9) TREES SHALL NOT BE PLANTED BETWEEN MAY 15 AND SEPTEMBER 15 WITHOUT SPECIFIC AUTHORIZATION OF THE BUILDING INSPECTOR AND/OR THE VILLAGE ENGINEER.
- (10) NOTICE MUST BE GIVEN TO THE BUILDING INSPECTOR AND/OR THE VILLAGE ENGINEER 30 DAYS PRIOR TO THE START OF PLANTING IN ORDER THAT THE PLANTS AND TREES MAY BE INSPECTED AND APPROVED FOR TREE VARIETY, CONDITION, SIZE AND QUALITY. ALL WORK SHALL BE SUBJECT TO THE GENERAL SUPERVISION AND APPROVAL OF THE BUILDING INSPECTOR AND/OR THE VILLAGE ENGINEER. THE BUILDING INSPECTOR IS AUTHORIZED TO REQUEST ASSISTANCE OF TREE EXPERTS TO MONITOR THE AFOREMENTIONED ACTIVITIES. ALL COSTS WILL BE BORNE BY THE DEVELOPER.
- (11) ANY TREE IMPROPERLY PLANTED OR NOT MEETING THESE SPECIFICATIONS WILL BE SUBJECT TO REMOVAL. ANY TREE THAT DOES NOT SURVIVE OR IS IN AN UNHEALTHY CONDITION AT THE END OF ONE YEAR SHALL BE REPLACED BY THE DEVELOPER AT NO COST TO THE VILLAGE OF MONROE. SAID REPLACEMENT SHALL BE MADE WITHIN 60 DAYS FOLLOWING WRITTEN DEMAND FOR SUCH REPLACEMENT OR WITHIN A MORE EXTENDED PERIOD AS MAY BE SPECIFIED.

LANDSCAPE MAINTENANCE

THE OWNER, THEIR HEIRS, TRANSFEREES, ASSIGNEES, TENANTS OR AGENTS, IF ANY, SHALL BE JOINTLY AND SEVERALLY RESPONSIBLE FOR THE MAINTENANCE OF ALL TREES AND LANDSCAPING WHICH SHALL BE MAINTAINED IN GOOD CONDITION SO AS TO PRESENT A HEALTHY, NEAT AND ORDERLY APPEARANCE AND SHALL BE KEPT FREE FROM REFUSE AND DEBRIS. THE BUILDING INSPECTOR SHALL ASSURE COMPLIANCE WITH THE TERMS OF PLANNING BOARD APPROVAL.

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.

TREE CLEARING NOTE:
NO TREE REMOVAL SHALL OCCUR FROM APRIL 1 TO OCTOBER 31 TO MITIGATE POTENTIAL IMPACTS ON INDIANA BAT & NORTHERN LONG EARED BAT.

Udig NY MUST BE CONTACTED PRIOR TO ANY EXCAVATION OR DEMOLITION

REV.	BY	DATE	DESCRIPTION
1.	MM	06-17-25	PER 05-29-2025 FES COMMENT LETTER
THIS SHEET IS NOT VALID WITHOUT ALL OF THE SHEETS THAT COMPRISE THE SET			
COPYRIGHT 2025, ARDEN CONSULTING ENGINEERS, P.L.L.C. - ALL RIGHTS RESERVED			

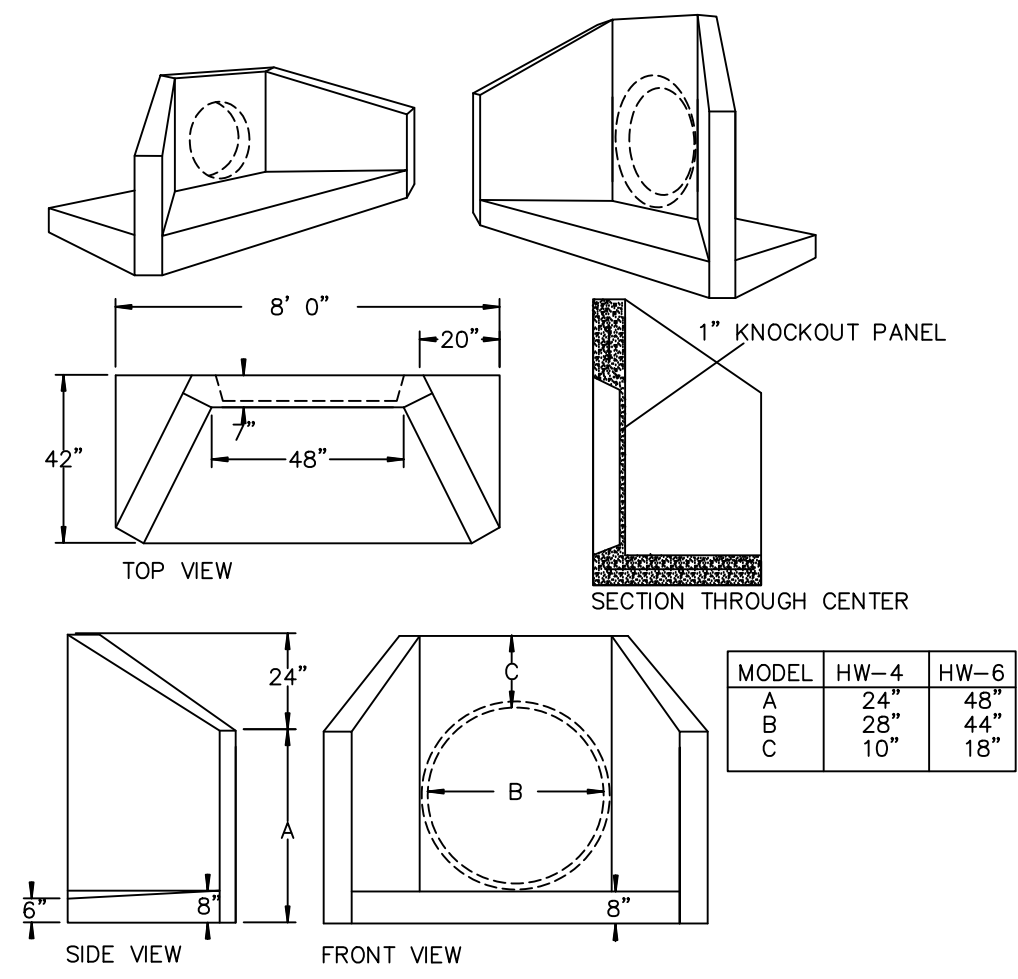
ARDEN CONSULTING ENGINEERS, PLLC
P.O. BOX 340 MONROE, N.Y.
TEL: (845) 782-8114
WWW.ARDENCONSULTING.NET

SITE PLAN PREPARED FOR
40 MANGIN ROAD
VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

LANDSCAPING DETAILS

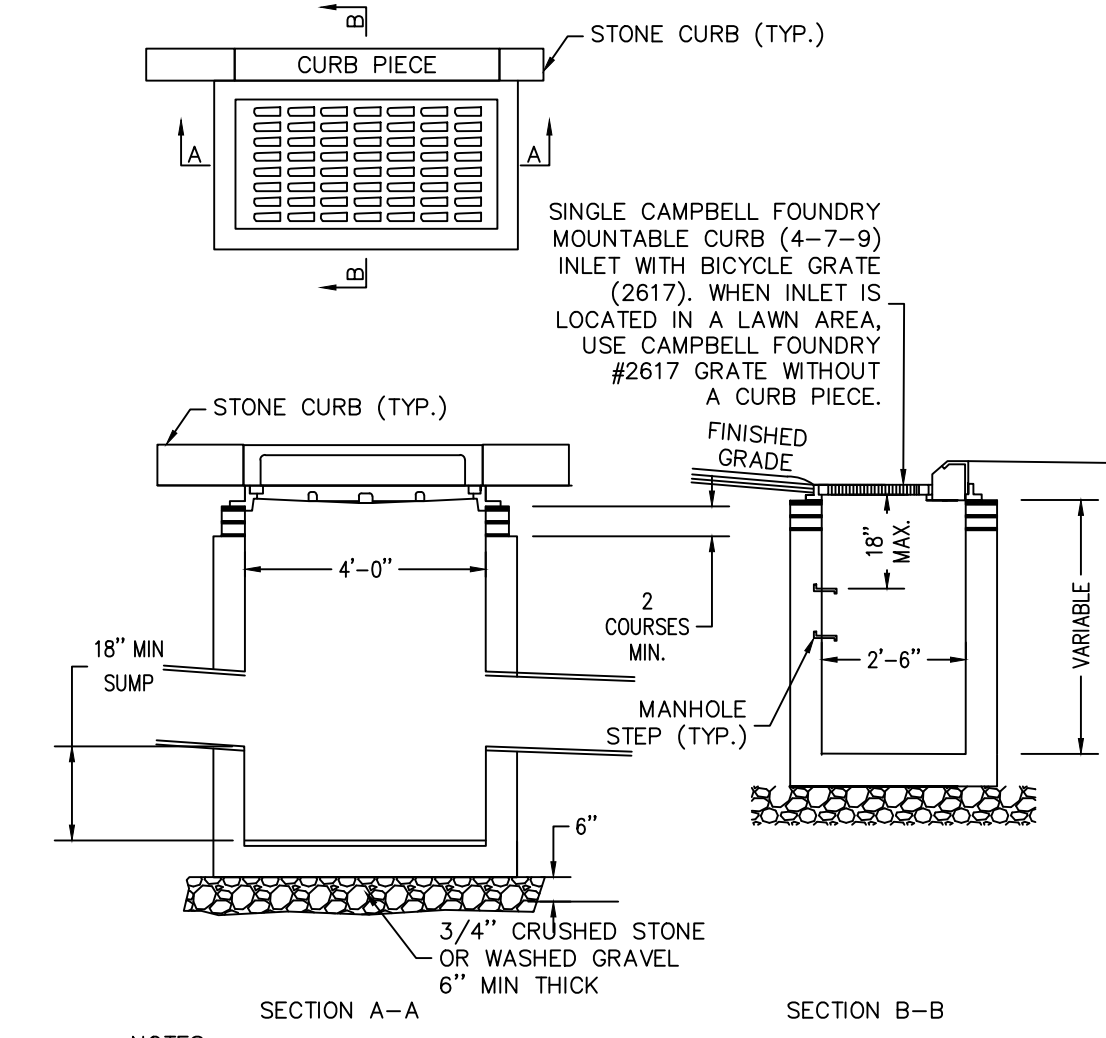
JOB#: 25-041
SCALE: AS NOTED
DATE: 04-04-25
DRAWN: MM
CHECKED: MM
SHEET NO. 14 OF 19

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



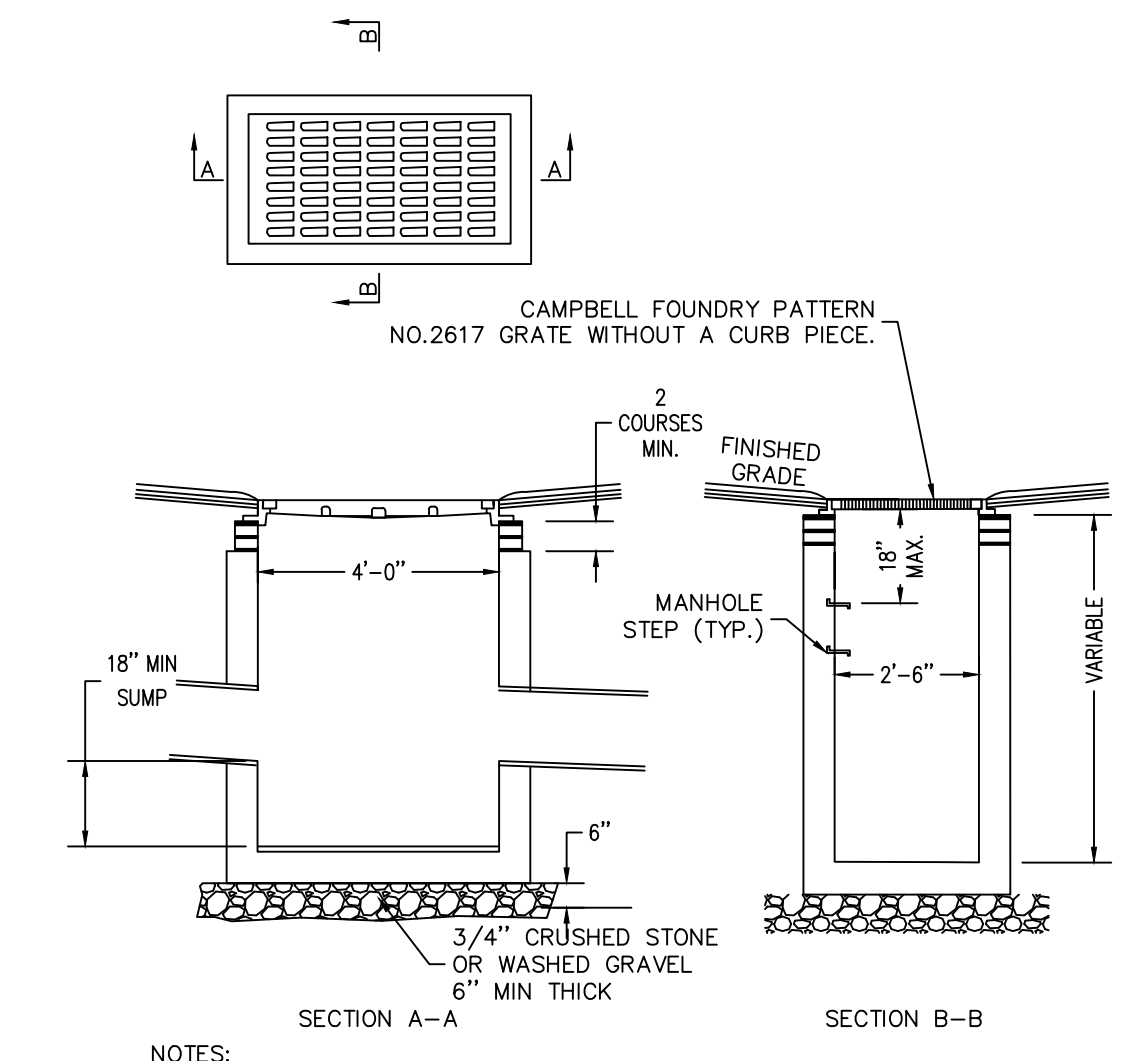
MODEL	HW-4	HW-6
A	24"	48"
B	28"	44"
C	10"	18"

SPECIFICATIONS		PRECAST HEADWALLS HW-4 & HW-6
CONCRETE MIN. STRENGTH: 4,000 PSI AT 28 DAYS		WOODARD'S CONCRETE PRODUCTS, INC. 629 LYBOLT ROAD, BULLVILLE, NY 10915 (845) 361-3471 / FAX 361-1050 PAGE 131 6/1/12
REINFORCEMENT: #4 REBAR / ASTM A615		
AIR ENTRAINMENT: 6%		
PIPE CONNECTION: MORTAR OR GROUT		
PIPE RANGE: UP TO 36" I.D.		
LOAD RATING: H20 / ASTM C857		
WEIGHT = 4,400 LBS OR 6,600 LBS		
WWW.WOODARDSCONCRETE.COM		



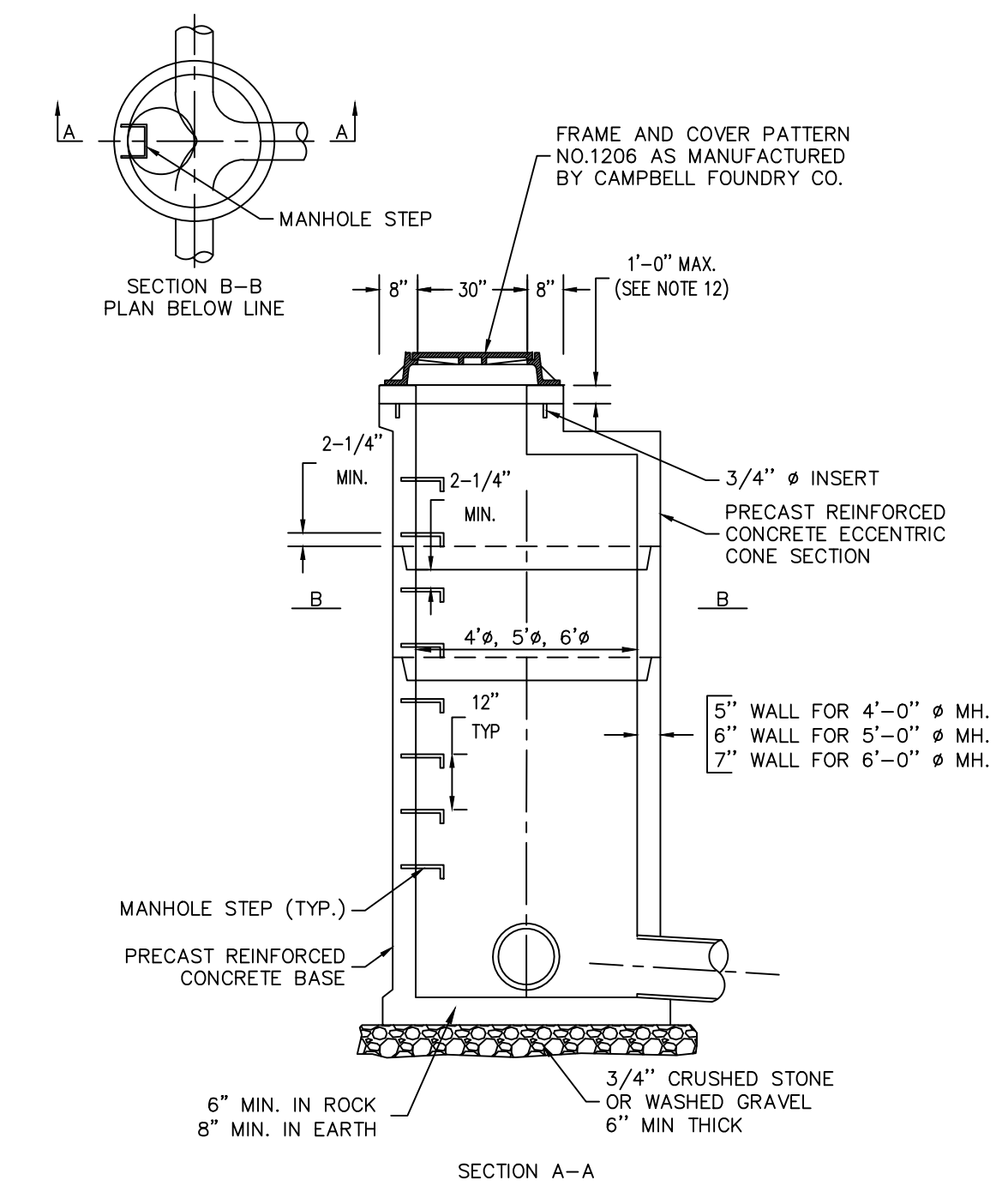
- NOTES:
1. THE CONTRACTOR SHALL SUBMIT SHOP DWGS. FOR EACH STRUCTURE FOR THE ENGINEERS REVIEW PRIOR TO FABRICATION.
 2. STRUCTURE SHALL BE CERTIFIED AS CONFORMING TO ASTM-C913 LATEST REVISION.
 3. STEPS NOT REQUIRED FOR STRUCTURES LESS THAN 4' DEEP.
 4. FOR STRUCTURES WITH PIPE DIAMETERS EXCEEDING MAXIMUMS, PROVIDE CONCRETE SLAB AS NOTED.
 5. STRUCTURAL DESIGN (WALL AND SLAB THICKNESS AND ALL REINFORCING) BY PRECASTER AND SHALL MEET STATE DEPARTMENT OF TRANSPORTATION STANDARDS AND SUPPORT HS-20 LOADING AS REQUIRED.

CATCH BASIN
NOT TO SCALE



- NOTES:
1. THE CONTRACTOR SHALL SUBMIT SHOP DWGS. FOR EACH STRUCTURE FOR THE ENGINEERS REVIEW PRIOR TO FABRICATION.
 2. STRUCTURE SHALL BE CERTIFIED AS CONFORMING TO ASTM-C913 LATEST REVISION.
 3. STEPS NOT REQUIRED FOR STRUCTURES LESS THAN 4' DEEP.
 4. FOR STRUCTURES WITH PIPE DIAMETERS EXCEEDING MAXIMUMS, PROVIDE CONCRETE SLAB AS NOTED.
 5. STRUCTURAL DESIGN (WALL AND SLAB THICKNESS AND ALL REINFORCING) BY PRECASTER SHALL MEET STATE DEPARTMENT OF TRANSPORTATION STANDARD AND SUPPORT HS-20 LOADING AS REQUIRED.

DRAIN INLET
NOT TO SCALE



- STORM MANHOLE NOTES:
1. THE DEPTH OF THE INVERT CHANNEL SHALL BE EQUAL TO 3/4 OF DIAMETER OF THE SEWER.
 2. THE SHELF SHALL SLOPE TOWARD THE INVERT CHANNEL AT A RATE OF 1" PER FOOT.
 3. TYPE 'B' MANHOLES (SHALLOW TYPE) TO BE PROVIDED WHERE REQUIRED BY DEPTH CONDITIONS.
 4. FOR MANHOLES HAVING 5' DIA. AND 6' DIA. BASE, REDUCTION IN DIA. TO 4' SHALL START AT THE FIRST JOINT ABOVE THE UPPERMOST PIPE CONNECTION TO WALL WHERE DEPTH IS SUFFICIENT.
 5. ALL MANHOLE FRAMES SHALL BE BOLTED TO THE CONE SECTION WITH 2-3/4" DIA. BOLTS WITH WASHERS AND NUTS. BOLTS TO BE AT 180° ON BOLT CIRCLE.
 6. ALL CONCRETE SHALL BE 4000 PSI MINIMUM.
 7. ENTIRE OUTSIDE SURFACE OF MANHOLE SHALL RECEIVE TWO COATS OF BITUMINOUS COATING, KOPPERS 300M PENNOXY TAR 32-8-4, OR APPROVED EQUAL.
 8. INSTALL 2 LAYERS OF PLASTIC PREFORMED JOINT SEALANT BETWEEN ALL SECTION & UNDER FRAME.
 9. MANHOLE CONSTRUCTION SHALL BE IN ACCORDANCE WITH ASTM C478.
 10. STEPS TO ALUMINUM ALLOY WITH DEEP TREAD, STEEL REINFORCED POLYPROPYLENE MANHOLE STEP.
 11. 4' DIA. MANHOLE - 8" TO 15" PIPES.
 12. 5' DIA. MANHOLE - 16" TO 27" PIPES.
 13. 6' DIA. MANHOLE - 30" TO 48" PIPES.
 14. WHEN TWO OR MORE GRADE ADJUSTMENT RING ARE USED, A WATERTIGHT PVC CONNECTOR SHALL BE INSTALLED BETWEEN THE FRAME AND THE CONE. CONNECTOR BFA ANTI - FLOATING BY A - LOK PRODUCTS INC. OR APPROVED EQUAL.
 15. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ENGINEER'S APPROVAL.
 16. SOIL CONDITIONS BELOW STRUCTURE DEEMED UNSUITABLE BY THE FIELD ENGINEER SHALL BE EXCAVATED TO A SUITABLE MATERIAL OR A MAXIMUM OF TWO ADDITIONAL FEET AND BACKFILLED WITH 3/4" CLEAN CRUSHED STONE.

PIPE SIZE RANGE	WIDTH (I.D.)
8" TO 15" PIPES	4'-0"φ
16" TO 27" PIPES	5'-0"φ
30" TO 48" PIPES	6'-0"φ
60" PIPES	7'-0"φ

STORM MANHOLE
NOT TO SCALE

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.

TREE CLEARING NOTE:
NO TREE REMOVAL SHALL OCCUR FROM APRIL 1 TO OCTOBER 31 TO MITIGATE POTENTIAL IMPACTS ON INDIANA BAT & NORTHERN LONG EARED BAT.

Udig NY MUST BE CONTACTED PRIOR TO ANY EXCAVATION OR DEMOLITION

REV.	BY	DATE	DESCRIPTION
1.	MM	06-17-25	PER 05-29-2025 FES COMMENT LETTER

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

COPYRIGHT 2025, ARDEN CONSULTING ENGINEERS, P.L.L.C. - ALL RIGHTS RESERVED.

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

SITE PLAN PREPARED FOR
40 MANGIN ROAD
VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

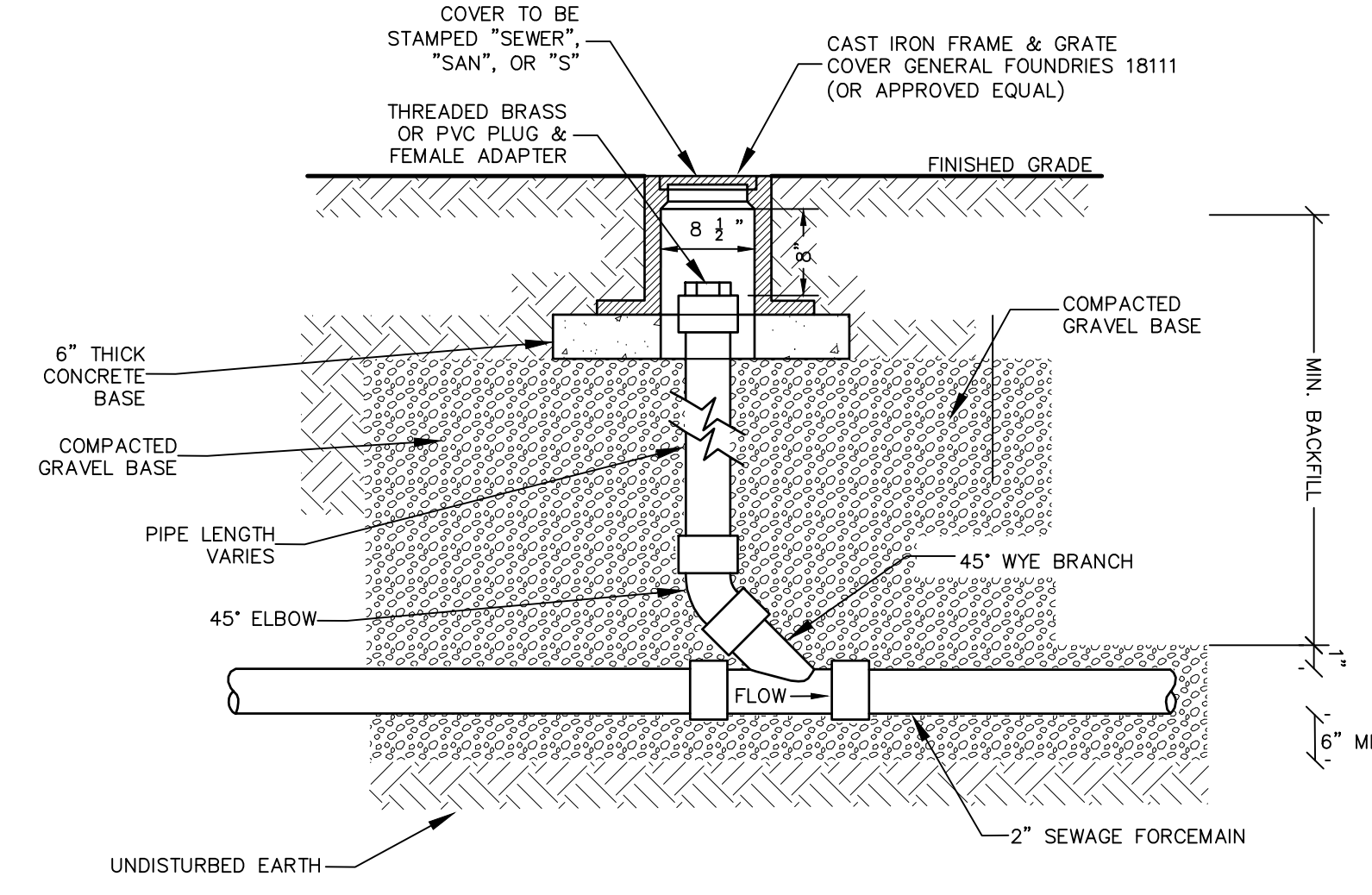
DRAINAGE DETAILS

JOB#: 25-041
SCALE: AS NOTED
DATE: 04-04-25
DRAWN: MM
CHECKED: MM
SHEET NO. 15 OF 19

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

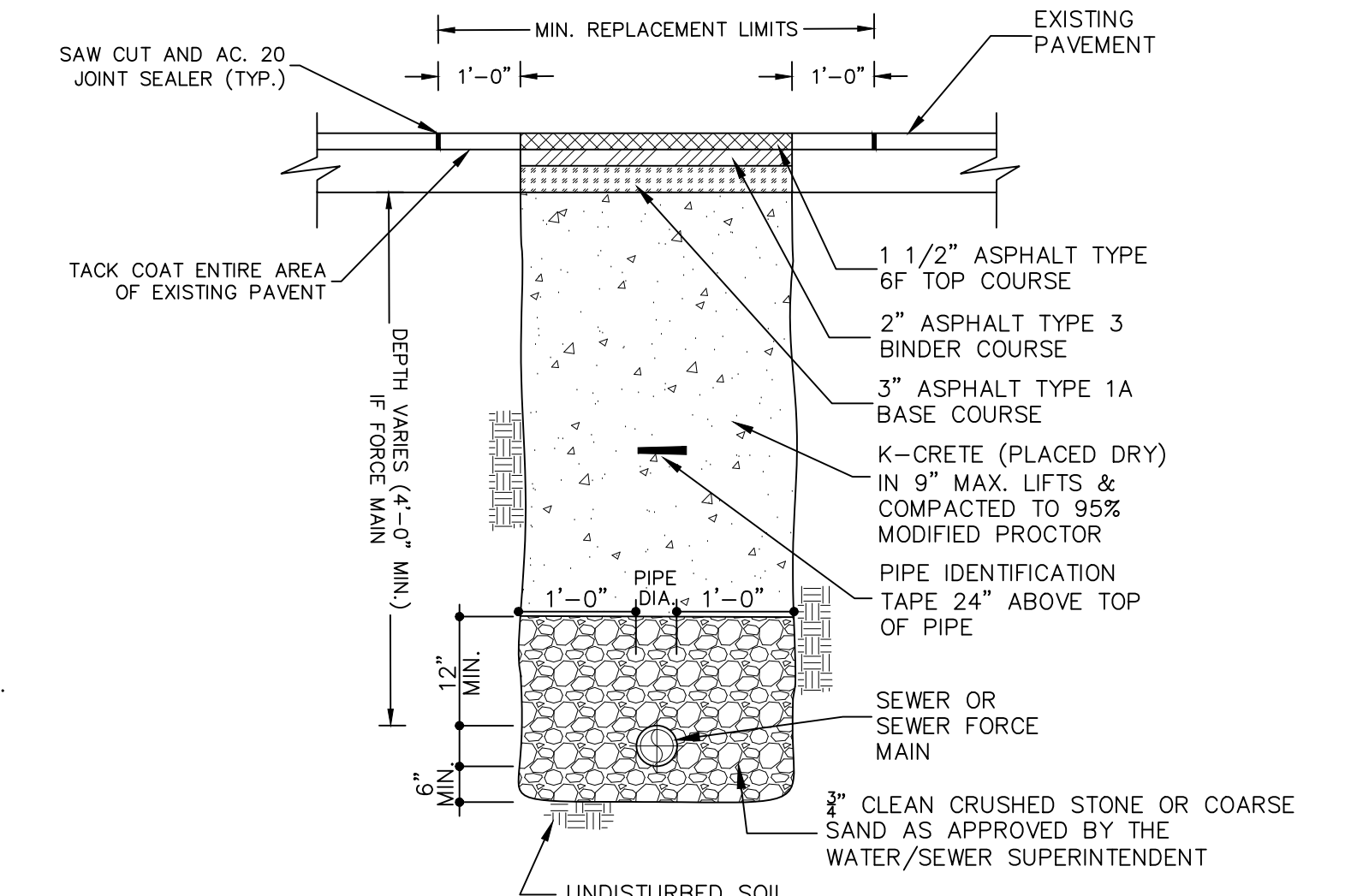
SEWER NOTES:

- UNDERGROUND UTILITIES SHOWN HEREON ARE APPROXIMATE, THEIR ACCURACY OR COMPLETENESS ARE NOT GUARANTEED BY THE ENGINEER. MARK OUTS FROM UTILITY COMPANIES AND FIELD CONFIRMATION BY CONTRACTOR MUST BE MADE PRIOR TO CONSTRUCTION SO THAT DISTURBANCE OR DISRUPTION TO THESE UTILITIES MAY BE AVOIDED. ALL EXISTING UTILITIES ARE TO BE COORDINATED WITH THE APPROPRIATE UTILITY FOR CONNECTION/DISCONNECTION WHERE NECESSARY.
- THE CONTRACTOR SHALL DETERMINE THE LOCATION AND DEPTH OF THE EXISTING UTILITY TO WHICH THE CONNECTION IS BEING MADE BEFORE LAYING PIPE, CONDUIT, ETC. DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER. IN CASES WHERE THE CONSTRUCTION OF ITEMS MEET EXISTING STRUCTURES, SUCH AS CURB, PAVEMENT, SIDEWALK, UTILITIES, ETC. THE CONTRACTOR OR SURVEYOR STAKING SUCH ITEMS SHALL VERIFY THE ELEVATION LOCATION OF THE EXISTING FEATURE PRIOR TO CONSTRUCTION. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
- THE CONTRACTOR SHALL EXERCISE EXTREME CARE IN CONDUCTING EXCAVATIONS TO ESTABLISH LOCATIONS AND DEPTHS OF EXISTING UNDERGROUND UTILITIES, FACILITIES AND STRUCTURES. THE CONTRACTOR SHALL HAND EXCAVATE WHERE APPROPRIATE.
- SANITARY SEWER SHALL BE SEPARATED FROM THE WATER MAINS BY A DISTANCE OF AT LEAST 10 FEET HORIZONTALLY OR 18 INCHES VERTICALLY IF HORIZONTAL SEPARATION IS NOT POSSIBLE.
- ALL SANITARY SEWER PIPE LENGTHS SHOWN ARE FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.
- ALL EQUIPMENT, MATERIALS, ETC. SHALL BE CONFINED TO THE PUBLIC RIGHTS OF WAY OR VILLAGE EASEMENTS. NO ENCROACHMENT ONTO ADJACENT PROPERTIES IS PERMITTED.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION SITE SAFETY. ALL SAFETY PRECAUTIONS MUST BE UNDERTAKEN AND MAINTAINED AS REQUIRED BY LOCAL, STATE AND FEDERAL CODES.
- THE SITE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING COMPLIANCE WITH THE NYSDEC AND VILLAGE REGULATIONS REGARDING STORM WATER POLLUTION PREVENTION.
- THE SITE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE AND PROTECTION OF TRAFFIC (MPT WHEN WORKING ON OR NEAR PUBLIC ROADS. MPT MEASURES MUST BE COORDINATED WITH THE APPROPRIATE HIGHWAY OFFICIALS (TOWN, VILLAGE, AND NYSOT) HAVING JURISDICTION OVER EACH PARTICULAR ROADWAY.
- IN THE EVENT THAT THE CONTRACTOR OR ITS SUBCONTRACTORS DAMAGE ANY EXISTING UTILITY, FACILITY OR STRUCTURE, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER OF THE DAMAGED PROPERTY AND VILLAGE.
- ALL STRUCTURES AND SURFACES DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO ITS PRE-CONSTRUCTION OR BETTER CONDITION.
- THE CONTRACTOR SHALL REVIEW THE SITE CONDITIONS WITH RESPECT TO DRAINAGE AND GENERAL SOIL CONDITIONS IN THE AREA AND PLAN ITS WORK IN SUCH A MANNER TO WORK EFFICIENTLY AND SAFELY. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE CONTROL OF SURFACE AND GROUNDWATER IN THE CONSTRUCTION AREA.
- THE CONTRACTOR SHALL MAKE ALL NECESSARY ARRANGEMENTS FOR STAGING AREAS FOR MATERIALS AND EQUIPMENT.
- THE CONTRACTOR SHALL ARRANGE FOR A SUITABLE AREA FOR THE STORAGE AND DISPOSAL OF EXCESS EXCAVATED SOIL MATERIALS. THE CONTRACTOR IS RESPONSIBLE FOR ANY PERMITS AND FEES ASSOCIATED WITH THE PROPER DISPOSAL OF SOIL AND OTHER MATERIALS FROM THE PROJECT.
- THE MORE STRICT OF ANY REQUIREMENT, CODE, RULE, REGULATION AND LAW ESTABLISHED BY THE VILLAGE OR OTHER GOVERNMENTAL AGENCY, INCLUDING BUT NOT LIMITED TO THE NEW YORK STATE DEPARTMENT OF HEALTH, NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION, UNITED STATES ARMY CORP OF ENGINEERS, UNITED STATES ENVIRONMENTAL PROTECTION AGENCY, UNITED STATES OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION AND NEW YORK STATE DEPARTMENT OF LABOR FOR SANITARY SEWER SIZE, SLOPE, ALIGNMENT, MATERIALS OF CONSTRUCTION AND APPURTENANCES AND METHODS FOR EXCAVATING, PIPE PLACEMENT, JOINTING, TESTING AND TRENCH BACKFILLING SHALL BE COMPLIED WITH DURING ALL PHASES OF CONSTRUCTION.
- ALL SANITARY SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS THAT ARE APPROVED BY THE VILLAGE. ANY DEVIATION FROM THE APPROVED PLANS AND/OR SPECIFICATIONS SHALL REQUIRE REVIEW AND APPROVAL BY THE VILLAGE. THE CONTRACTOR SHALL BE RESPONSIBLE TO NOTIFY THE PROJECT ENGINEER AND THE VILLAGE OF ANY PLANNED DEVIATION(S) FROM THE APPROVED PLANS AND/OR SPECIFICATIONS.
- FITTINGS SHALL BE STANDARD LENGTH.
- PIPE JOINTS SHALL BE STANDARD LENGTH.
- CONNECTION TO EXISTING SANITARY MANHOLE SHALL BE CORE BORED FOR A KOR-N-SEAL.



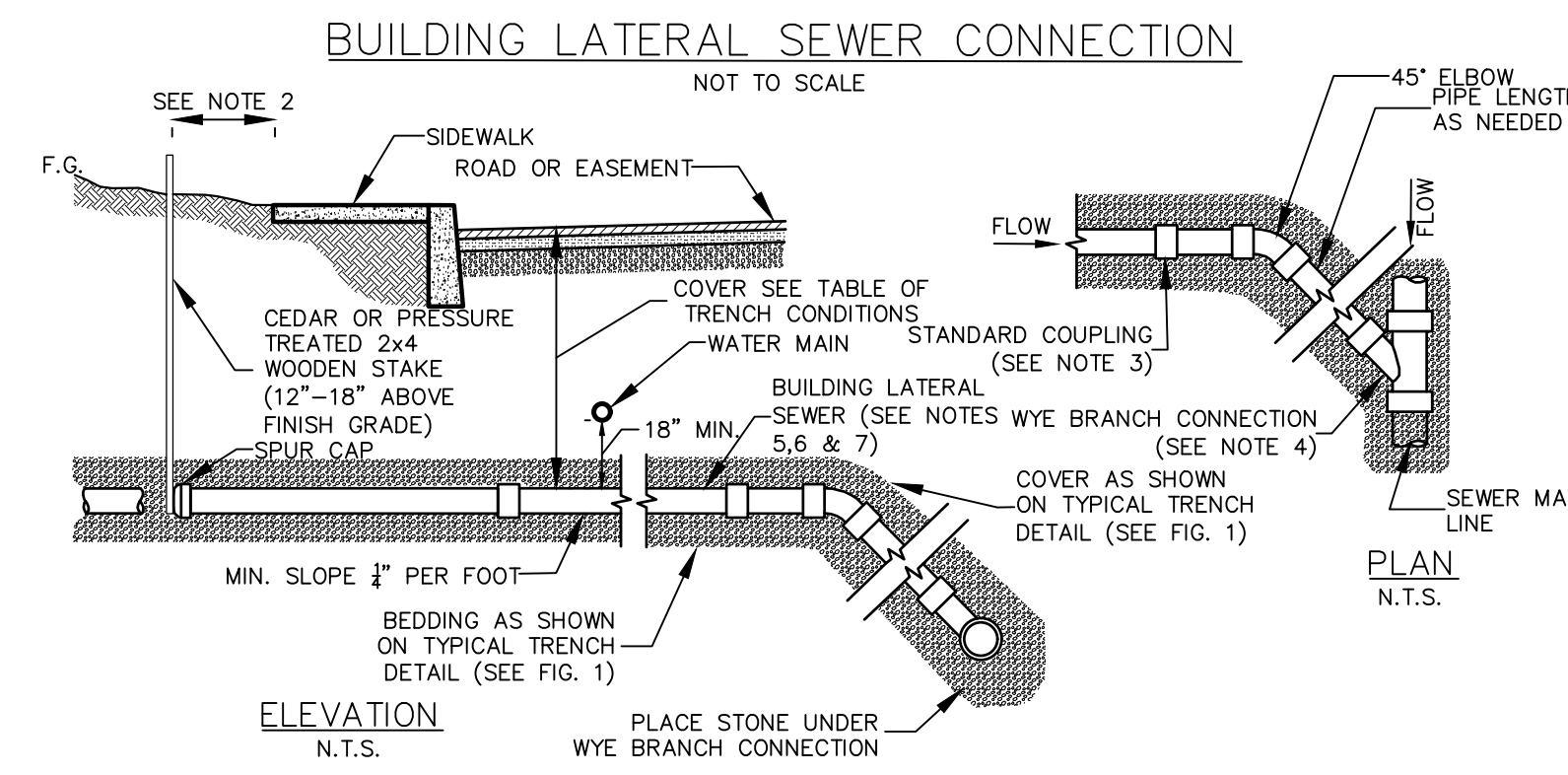
NOTES:
1. CLEANOUT LOCATED IN A ROAD, DRIVEWAY OR PARKING AREA SHALL REQUIRE A CAMBELL FOUNDRY #4164 CAST IRON FRAME AND COVER. (OR APPROVED EQUAL).

BUILDING LATERAL SEWER CLEANOUT (C.O.)
NOT TO SCALE



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.

TYPICAL SEWER MAIN INSTALLATION/RESTORATION DETAIL IN VILLAGE STREET
NOT TO SCALE



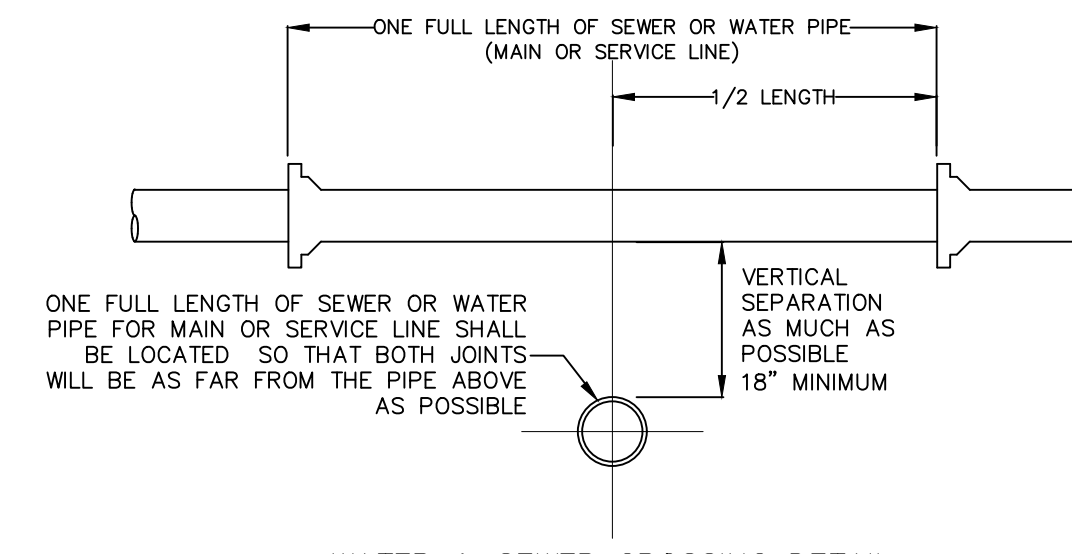
SANITARY SEWER SPECIFICATIONS (FOR BUILDING LATERAL SEWERS AND SEWER MAIN LINE):

- REQUIRED MAIN LINE SEWER (OR APPROVED EQUAL):
 - ABS-TRUSS PIPE:
 - PIPE: STAMPED ASTM D2680
 - FITTINGS: STAMPED ASTM D2680
 - JOINTS: SOLVENT WELD, ASTM D2235
 - PVC-TRUSS PIPE:
 - PIPE: STAMPED ASTM D2680
 - FITTINGS: STAMPED ASTM D2680
 - JOINTS: SOLVENT WELD, ASTM D2564 OR ELASTOMERIC (GASKET)
 - PVC - SDR 26 HEAVY WALL PIPE:
 - PIPE (18" - 15" DIAMETER): STAMPED ASTM D3034. PIPE (18" AND GREATER DIAMETER): STAMPED ASTM F679.
 - FITTINGS: STAMPED ASTM D3034 OR F679.
 - JOINTS: SOLVENT WELD ASTM D2564 OR ELASTOMERIC GASKET.
 - PVC - SDR 35 SOLID WALL PIPE:
 - PIPE (18" - 15" DIAMETER): STAMPED ASTM D3034. PIPE (18" AND GREATER DIAMETER): STAMPED ASTM F679.
 - FITTINGS: STAMPED ASTM D3034 OR ASTM F679.
 - JOINTS: BELL AND SPIGOT WITH ELASTOMERIC GASKET ASTM D3034 OR SOLVENT WELD ASTM D2564.
- REQUIRED 4" OR 6" (AS APPROVED) BUILDING LATERAL SEWER (OR APPROVED EQUAL):
 - PVC - SDR 35 SOLID WALL PIPE:
 - PIPE: STAMPED ASTM D3034 AND SDR 35.
 - FITTINGS: STAMPED SDR 35 AND ASTM D3034.
 - JOINTS: BELL AND SPIGOT WITH ELASTOMERIC GASKET ASTM D3034 OR SOLVENT WELD ASTM D2564.
 - SDR 26 HEAVY WALL PIPE:
 - PIPE: STAMPED ASTM D3034 AND SDR 26.
 - FITTINGS: STAMPED SDR 26 AND ASTM D3034.
 - JOINTS: BELL AND SPIGOT WITH ELASTOMERIC GASKET ASTM D3034 OR SOLVENT WELD ASTM D2564.
 - SDR 23.5 ABS SOLID WALL PIPE:
 - PIPE: STAMPED ASTM D2751 AND SDR 23.5
 - FITTINGS: STAMPED SDR 23.5 ASTM D2751
 - JOINTS: SOLVENT WELD, ASTM D2235
- OTHER REQUIRED PIPE MATERIALS FOR BUILDING LATERAL SEWERS AND SEWER MAIN LINE (OR APPROVED EQUAL):
 - CAST IRON, EXTRA HEAVY, COATED, HUB & PLAIN END, ASTM C-74 WITH ELASTOMERIC COMPRESSION GASKET (ASTM C-564)
 - DUCTILE IRON PIPE: CLASS S2, CEMENT LINED AND TAR COATED INSIDE AND OUT.

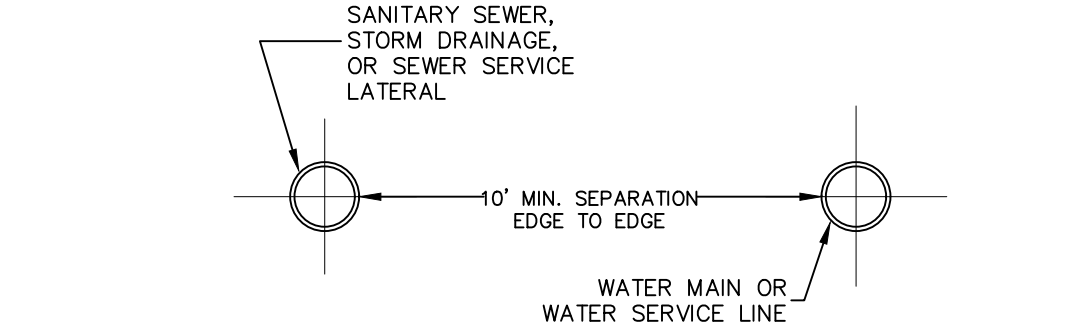
SPECIAL CONDITIONS FOR SHALLOW TRENCH CONDITIONS	
COVER	PIPE
LESS THAN 4'-0"	CLASS S2 DUCTILE IRON OR CAST IRON EXTRA HEAVY OR APPROVED EQUAL.

NOTES:

- ALL APPROVED BUILDING LATERAL SEWER PIPE MATERIAL FOR EACH CONNECTION MADE SHALL BE CONSTRUCTED FROM THE SAME MATERIAL.
- 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.
- 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).
- WYE BRANCH CONNECTION SHALL BE A FITTING CONSTRUCTED SPECIFICALLY FOR THE INSTALLED MAIN LINE SEWER MATERIAL CLASS (OR APPROVED EQUAL).
- THE BUILDING 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.
- 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.
- 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.



WATER & SEWER CROSSING DETAIL
NOT TO SCALE



WATER & SEWER HORIZONTAL SEPARATION
NOT TO SCALE

SEWER & WATER SEPARATION NOTES

- 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 ASSURE WATERTIGHTNESS PRIOR TO BACKFILLING.
- A FULL LENGTH OF BOTH PIPES CROSSING MUST BE CENTERED AT THE CROSSING.
- BEDDING MATERIAL SHALL BE INCREASED TO 12" BELOW THE LENGTH OF WATER MAIN PIPE FOR 10' ON EITHER SIDE OF THE CROSSING.
- TWO LAYERS OF CAUTION TRACER TAPE SHALL BE PLACED 18" MINIMUM ABOVE STORM SEWER MAINS.

NOTES

- 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.
- SEWER MAIN INCLUDES SEWER LATERALS AND STORM DRAIN.
- WATER MAIN INCLUDES WATER SERVICE LATERALS.
- 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

- 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.).
- CONTRACTOR SHALL PROVIDE STRUCTURAL SUPPORT FOR EXISTING WATER MAIN OVER THE ENTIRE TRENCH WIDTH TO PREVENT DAMAGE TO THE WATER MAIN.
- WATER TIGHT JOINTS WHERE WATERLINES ARE CROSSED ABOVE OR BELOW.

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

TREE CLEARING NOTE:

NO TREE REMOVAL SHALL OCCUR FROM APRIL 1 TO OCTOBER 31 TO MITIGATE POTENTIAL IMPACTS ON INDIANA BAT & NORTHERN LONG EARED BAT.

UDig NY MUST BE CONTACTED PRIOR TO ANY EXCAVATION OR DEMOLITION

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.

REV.	BY	DATE	DESCRIPTION
1.	MM	06-17-25	PER 05-29-2025 FES COMMENT LETTER
THIS SHEET IS NOT VALID WITHOUT ALL OF THE SHEETS THAT COMPRISE THE SET			
COPYRIGHT 2025, ARDEN CONSULTING ENGINEERS, P.L.L.C. - ALL RIGHTS RESERVED.			

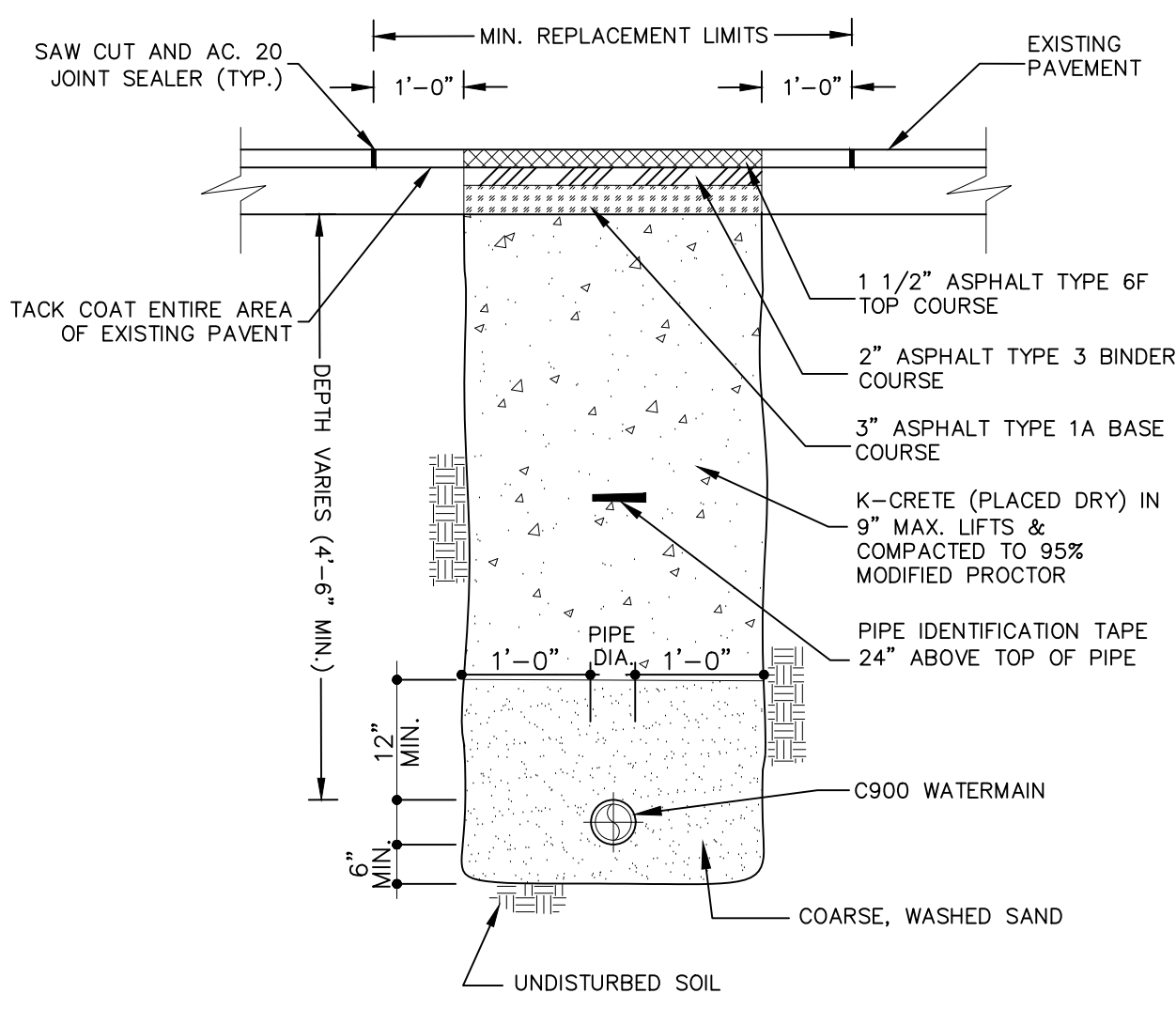
ARDEN CONSULTING ENGINEERS, PLLC
P.O. BOX 340 MONROE, N.Y.
TEL: (845) 782-8114
WWW.ARDENCONSULTING.NET

SITE PLAN PREPARED FOR
40 MANGIN ROAD
VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

SANITARY DETAILS

JOB#: 25-041
SCALE: AS NOTED
DATE: 04-04-25
DRAWN: MM
CHECKED: MM
SHEET NO. 16 OF 19

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

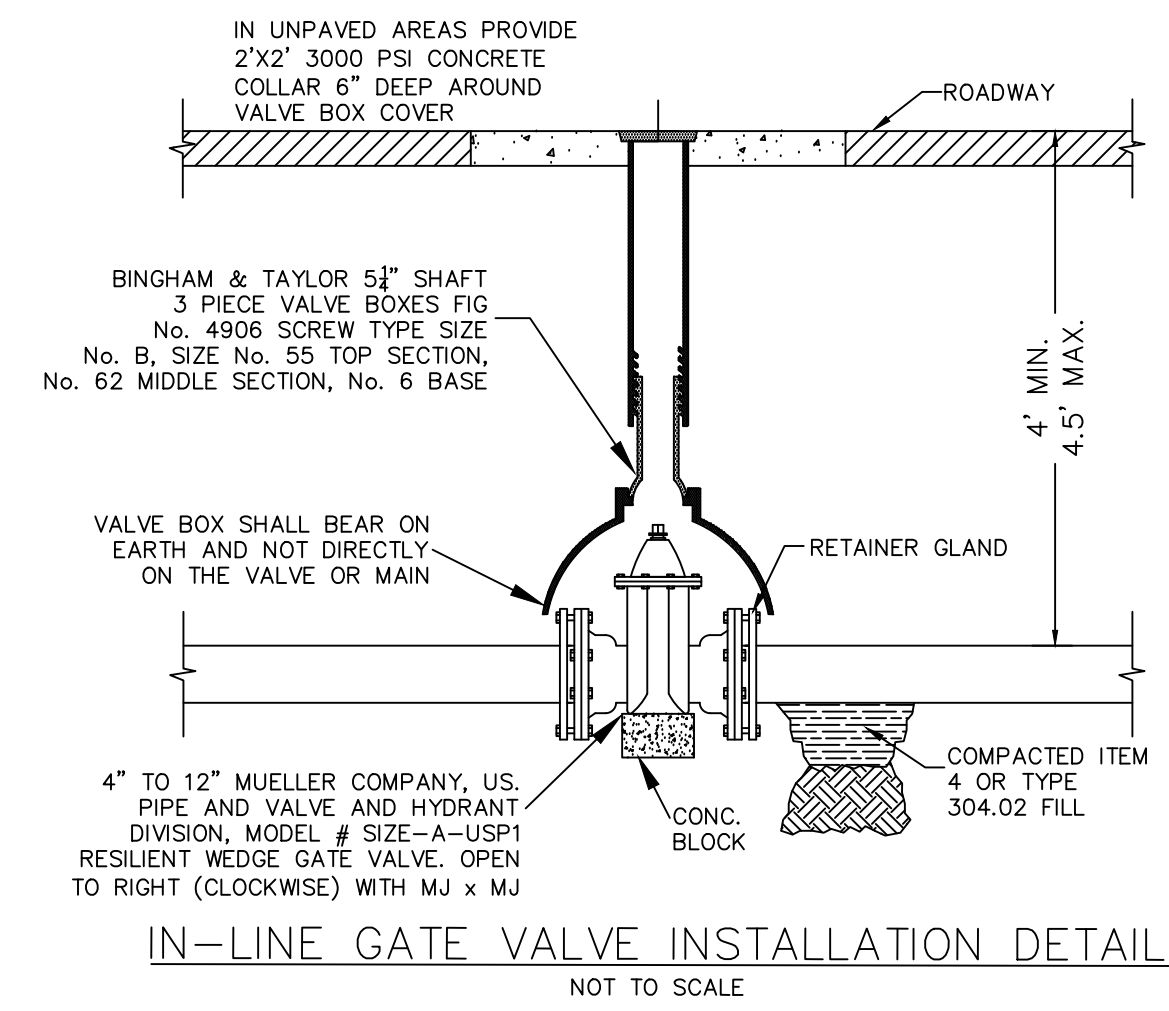


TYPICAL WATER SERVICE INSTALLATION/RESTORATION DETAIL IN VILLAGE STREET
NOT TO SCALE

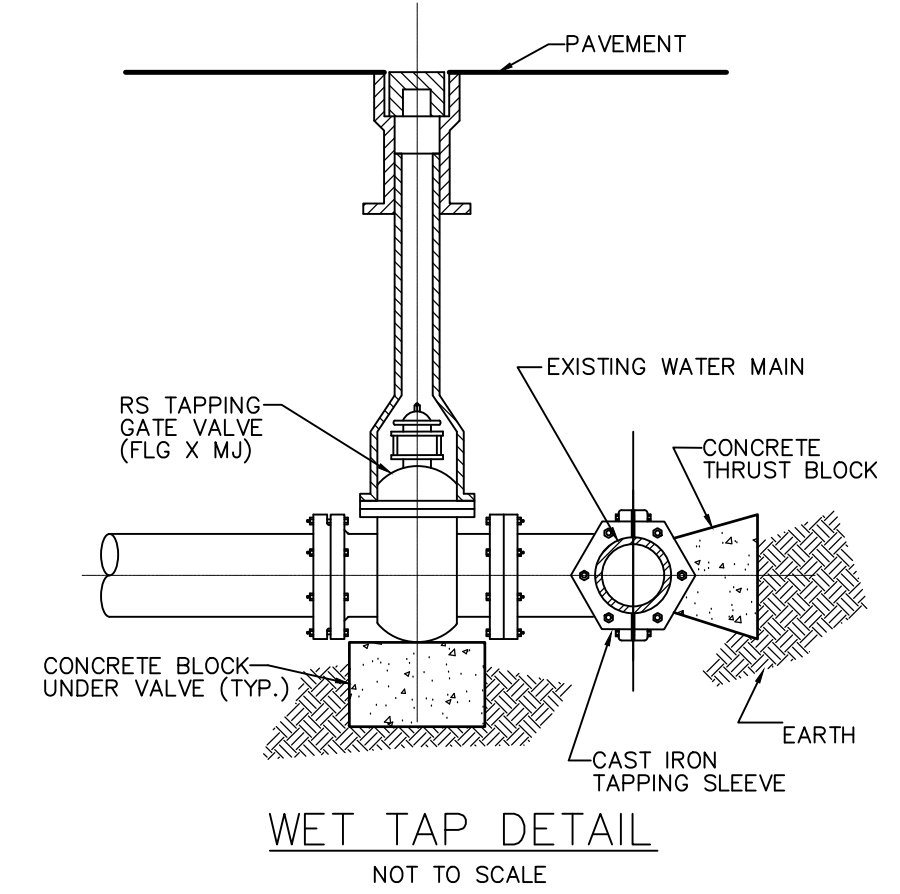
NOTE:
1. PAVEMENT AND SUBBASE MATERIAL SHALL, AT A MINIMUM, MATCH THE EXISTING TYPES AND THICKNESSES FOUND WITHIN ANY TOWN, COUNTY OR STATE HIGHWAY, WHICHEVER IS GREATER.

WATER NOTES

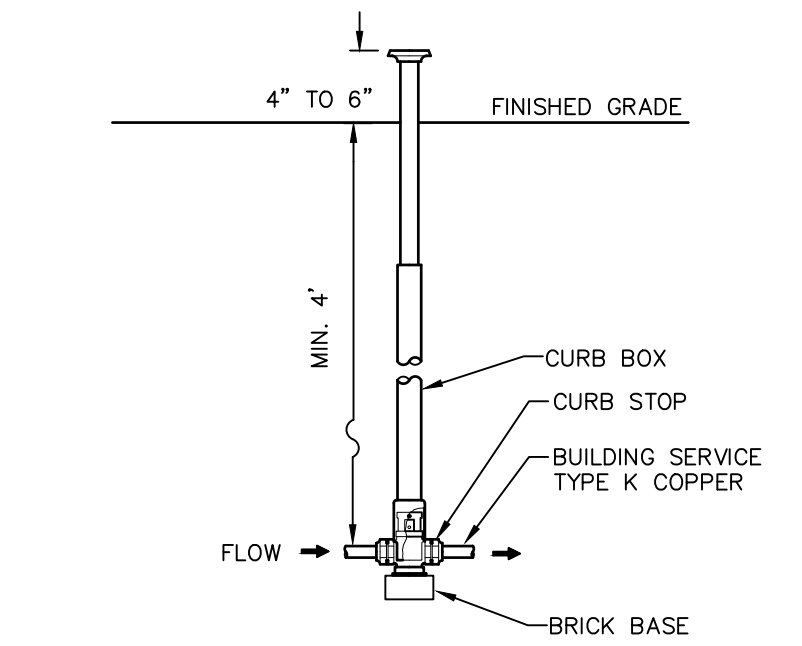
1. ALL WATER SYSTEM INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE VILLAGE OF SOUTH BLOOMING GROVE, THE ORANGE COUNTY DEPARTMENT OF HEALTH, THE LATEST AWWA STANDARDS, AND "RECOMMENDED STANDARDS FOR WATER WORKS" (2007-GLUMB).
2. DISINFECTION AND TESTING SHALL BE IN ACCORDANCE WITH AWWA C651.
3. PRESSURE AND LEAKAGE TESTING SHALL BE IN ACCORDANCE WITH AWWA C600, P. 6. SUPPLIERS RECORDS INDICATE ADEQUATE PRESSURE AND CAPACITY IS AVAILABLE.
4. ALL ELEVATIONS BASED ON TOPOGRAPHICAL INFORMATION PREPARED BY EDWARD T. GANNON, PLS.
5. AVAILABLE INFORMATION AS TO THE LOCATION OF EXISTING SUBSTRUCTURES AND UTILITIES HAS BEEN COLLECTED FROM VARIOUS SOURCES. THE RESULTS OF SUCH INVESTIGATIONS, AS MAY BE SHOWN ON THE CONTRACT DRAWINGS, ARE NOT GUARANTEED AS TO ACCURACY. ALL EXISTING UTILITIES ARE SHOWN FOR INFORMATION ONLY. THE CONTRACTOR SHALL DIG TEST PITS AS REQUIRED TO VERIFY TRUE AND EXACT LOCATIONS OF UNDERGROUND LINES.
6. ALL PROFILES INDICATE APPROXIMATE GROUND PROFILES.
7. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES, AND UDIG NY, A MINIMUM OF 72 HOURS PRIOR TO EXCAVATION, AND SHALL COMPLY WITH ALL CURRENT MARKOUT REQUIREMENTS OF DIG SAFELY NEW YORK.
8. EXCAVATIONS OR TRENCHING WITHIN CLOSE PROXIMITY TO UNDERGROUND FACILITIES OR UTILITY POLES WILL REQUIRE PROTECTION TO PREVENT DAMAGE OR INTERRUPTION OF SERVICE TO UNDERGROUND FACILITIES. THE COST TO PROVIDE THIS PROTECTION WILL BE BORNE BY THE CONTRACTOR.
9. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT EXISTING THRUST BLOCKS WHICH ARE RESTRAINING EXISTING UTILITIES. EXISTING THRUST BLOCKS SHALL NOT BE UNDERMINED.
10. ALL TRENCH LINES SHALL BE CUT OR MILLED.
11. THE CONTRACTOR SHALL COMPLY WITH ALL ROAD OPENING REQUIREMENTS AND ORDINANCES OF THE GOVERNING AGENCY.
12. RESTORATION, INCLUDING THE REMOVAL OF EXCESS EXCAVATED MATERIAL AND PLACEMENT OF TEMPORARY PAVEMENT, SHALL BE PERFORMED AND COMPLETED ON A DAILY BASIS. ALL ROADS SHALL BE PASSABLE TO VEHICULAR TRAFFIC AT THE END OF EACH WORK DAY.
13. ALL TRENCHES SHALL BE BACKFILLED WITHOUT DELAY. OPEN TRENCHES SHALL BE KEPT TO A MINIMUM. OPEN TRENCHES SHALL BE STEEL PLATED UPON BACKFILLING. THE CONTRACTOR SHALL BROOM SWEEP STREETS, USE APPROPRIATE METHODS TO CONTROL DUST AND HOSE DOWN THE PAVEMENT TO KEEP SURFACE CLEAN.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ALL EXCESS EXCAVATED MATERIAL TO AN OFF-SITE LOCATION.
15. THE CONTRACTOR SHALL FURNISH AND INSTALL CORPORATIONS WHEREVER NECESSARY FOR PRESSURE TESTING AND DISINFECTING THE WATER SERVICE LINE. CORPORATIONS SHALL BE 3/4" FOR MAINS SMALLER THAN 16" AND 1" FOR MAINS 16" AND LARGER. THE CONTRACTOR SHALL INSTALL AS MANY CORPORATIONS AS ARE REQUIRED FOR PROPER TESTING, FLUSHING, AIR BLEEDING AND DISINFECTION.
16. TO MAINTAIN THE HORIZONTAL AND VERTICAL ALIGNMENT SHOWN ON THE PLANS, PIPE JOINTS MAY BE DEFLECTED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS, UNLESS THE SPECIFICATIONS INDICATE A MORE STRINGENT REQUIREMENT. IF NECESSARY, EITHER TO MAINTAIN THE ALIGNMENT SHOWN OR TO ADJUST THE ALIGNMENT TO MEET ACTUAL FIELD CONDITIONS, ADDITIONAL FITTINGS SHALL BE INSTALLED AS REQUIRED.
17. ALL STATIONING SHOWN ON PLANS IS APPROXIMATE.
18. ALL CONSTRUCTION ACTIVITIES ARE TO BE CONFINED TO THE PUBLIC RIGHT-OF-WAY OR TO THE LIMITS DEPICTED ON THE CONTRACT DRAWINGS.
19. THE WATER MAIN SHALL BE INSTALLED WITH A MINIMUM OF FOUR AND ONE HALF (4.5) FEET OF COVER. ANY DEVIATION FROM THIS WILL REQUIRE AUTHORIZATION FROM THE VILLAGE OF SOUTH BLOOMING GROVE ENGINEER.
20. THE CONTRACTOR SHALL TAKE STEPS NECESSARY TO PRESERVE EXISTING CURB AND MINIMIZE THE LENGTH OF CURBING THAT MUST BE REPLACED.
21. THE CONTRACTOR IS CAUTIONED THAT ALL SANITARY LATERALS AND UTILITY SERVICES HAVE NOT BEEN LOCATED. WHEN THE CONTRACTOR ENCOUNTERS AN OBSTRUCTION AND CANNOT ADJUST THE ALIGNMENT USING ALLOWABLE JOINT DEFLECTION, THE CONTRACTOR SHALL REFER TO THE WATER MAIN DETAIL SHEETS. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE PROMPT REPAIR OF DAMAGED UTILITIES, AND SHALL RESTORE THE SITES AS NEATLY AS POSSIBLE TO THEIR ORIGINAL CONDITION.
22. THE CONTRACTOR SHALL PROTECT ALL STRUCTURES, ROADS, PIPELINES, TREES, SHRUBBERY, GRASS AREAS, ETC. DURING THE PROGRESS OF THE WORK AND SHALL REMOVE DAILY FROM THE SITE ALL DEBRIS AND UNUSED MATERIALS. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL RESTORE THE SITES AS NEATLY AS POSSIBLE TO THEIR ORIGINAL CONDITION.
23. ALL SIDEWALK AREAS SHALL BE PASSABLE AND BROOM SWEEP AT THE END OF EACH WORK DAY.
24. DURING FLUSHING AND PRESSURE TESTING OF THE MAIN, THE VILLAGE OF SOUTH BLOOMING GROVE SHALL OPERATE ALL VALVES.
25. REFER TO DETAIL SHEET FOR STANDARD DETAILS.



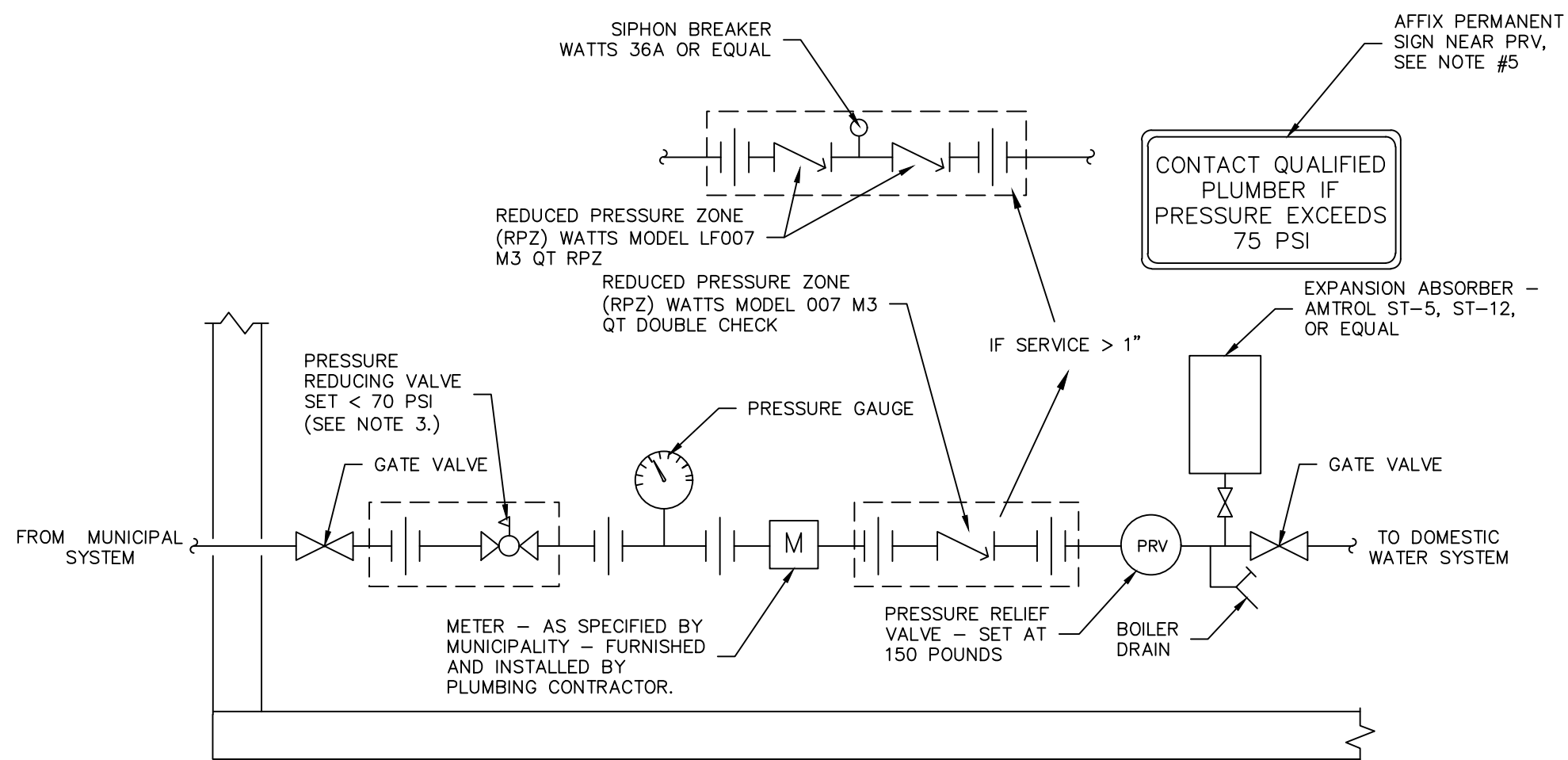
IN-LINE GATE VALVE INSTALLATION DETAIL
NOT TO SCALE



WET TAP DETAIL
NOT TO SCALE

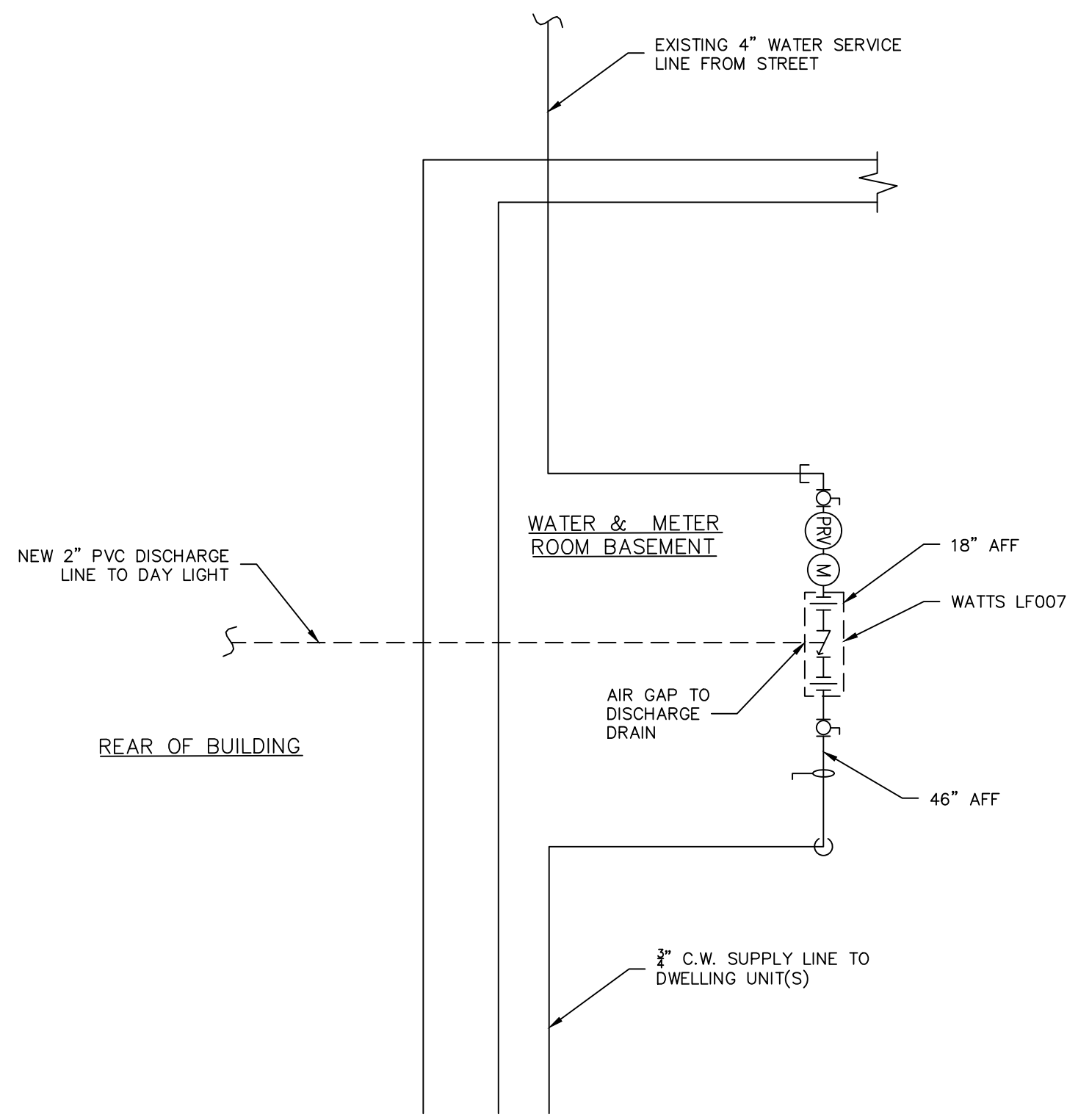


NOTES:
CURB STOP TO BE MUELLER H15200, OR EQUAL
CURB BOX TO BE MUELLER H10306 WITH ROD, OR EQUAL
CURB STOP DETAIL
NOT TO SCALE

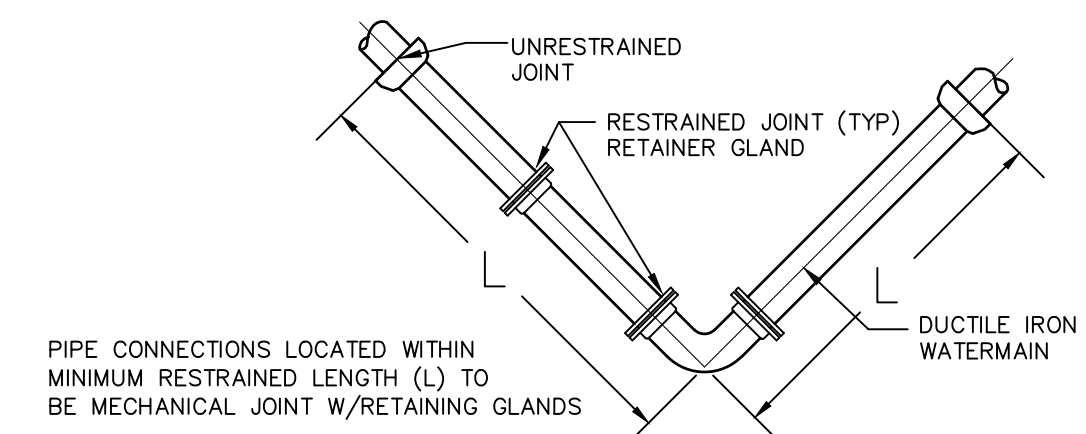


- NOTES:
1. PLUMBING CONTRACTOR SHALL TEST ALL COMPONENTS AND RUN A MINIMUM OF 100 GALLONS THROUGH SYSTEM BEFORE FINAL INSPECTION.
 2. ENTIRE INSTALLATION TO CONFORM TO MUNICIPALITY'S REQUIREMENTS.
 3. REQUIRED ONLY WHERE MUNICIPAL SYSTEM PRESSURE EXCEEDS 70 PSI.
 4. PLUMBING CONTRACTOR SHALL INSTALL A TELEPHONE JACK AS CLOSE TO METER AS POSSIBLE, AND WIRE TO ITB.
 5. SIGN SHALL READ "CONTACT QUALIFIED PLUMBER IF PRESSURE EXCEEDS 75 PSI"

TYPICAL BACKFLOW PREVENTION SYSTEM PROFILE
NOT TO SCALE



TYPICAL BACKFLOW PREVENTION SYSTEM PLAN
NOT TO SCALE



NOMINAL PIPE SIZE (IN)	BURY DEPTH (FT)	INTERNAL PRESSURE (PSI)	SOIL DESIGNATION	LAYING CONDITION (*)	RESTRAINED LENGTH (FT) = L (**)				
					DEAD END	90° BEND	45° BEND	1/2, 1/4 BEND	
6	4.5	150	SAND SILT	(*)	38	17	7	4	2
8	4.5	150	SAND SILT	(*)	50	21	16	5	3

(*) LAYING CONDITION TYPE AS DESCRIBED IN STANDARD ANSI/AWWA C150/A21.50
(**) RESTRAINED LENGTH AS PER "THRUST RESTRAINT DESIGN FOR DUCTILE IRON PIPE", LATEST EDITION, DUCTILE IRON PIPE RESEARCH ASSOCIATION

WATER JOINT RESTRAINT DETAIL
NOT TO SCALE

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

TREE CLEARING NOTE:
NO TREE REMOVAL SHALL OCCUR FROM APRIL 1 TO OCTOBER 31, TO MITIGATE POTENTIAL IMPACTS ON INDIANA BAT & NORTHERN LONG EARED BAT.

Udig NY MUST BE CONTACTED PRIOR TO ANY EXCAVATION OR DEMOLITION

REV.	BY	DATE	DESCRIPTION
1.	MM	06-17-25	PER 05-29-2025 FES COMMENT LETTER
THIS SHEET IS NOT VALID WITHOUT ALL OF THE SHEETS THAT COMPRISE THE SET			
COPYRIGHT 2025, ARDEN CONSULTING ENGINEERS, P.L.L.C. - ALL RIGHTS RESERVED			

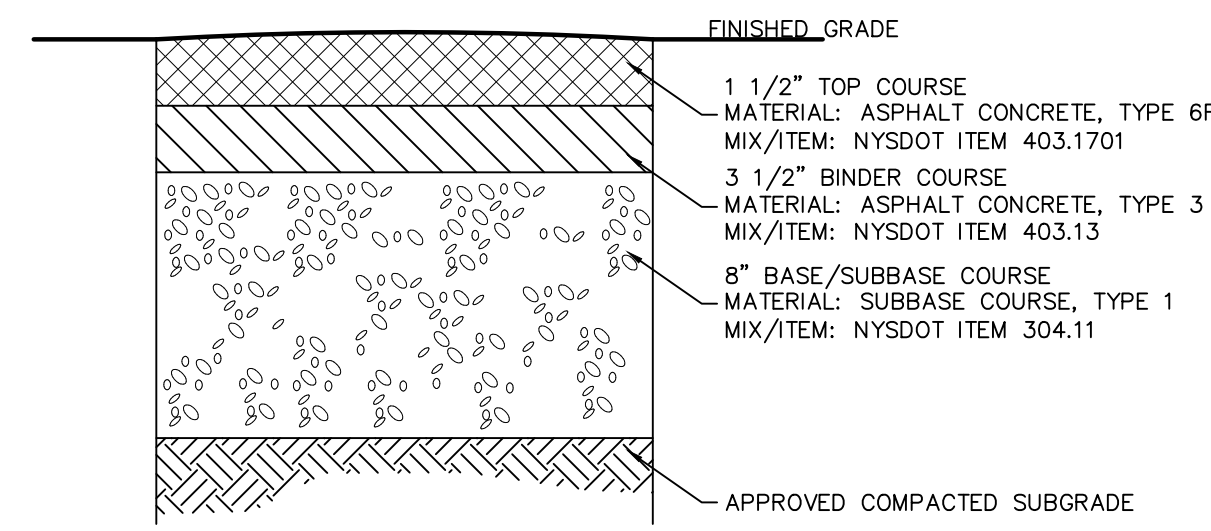
ARDEN CONSULTING ENGINEERS, PLLC
P.O. BOX 340 MONROE, N.Y.
TEL: (845) 782-8114
WWW.ARDENCONSULTING.NET

SITE PLAN PREPARED FOR
40 MANGIN ROAD
VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

WATER SUPPLY DETAILS

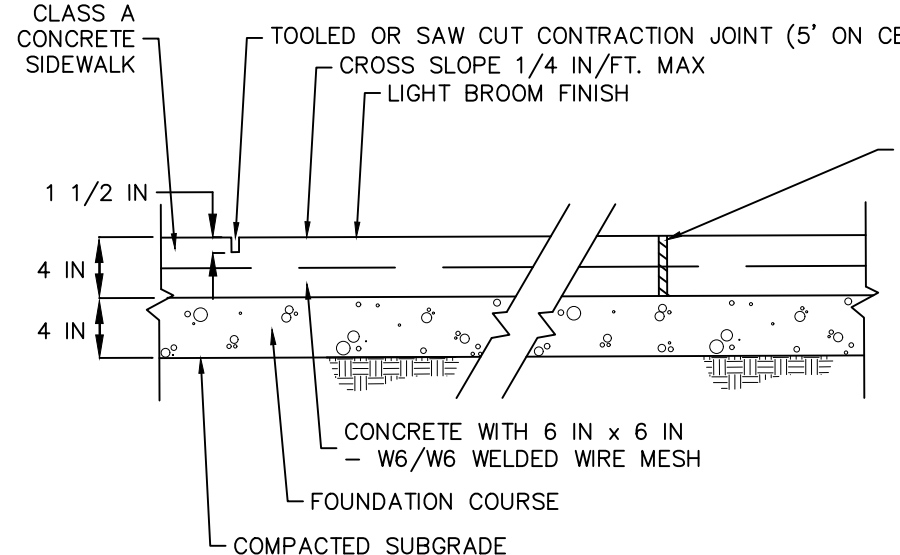
JOB#: 25-041
SCALE:
AS NOTED
DATE: 04-04-25
DRAWN: MM
CHECKED: MM
SHEET NO. 17 OF 19

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

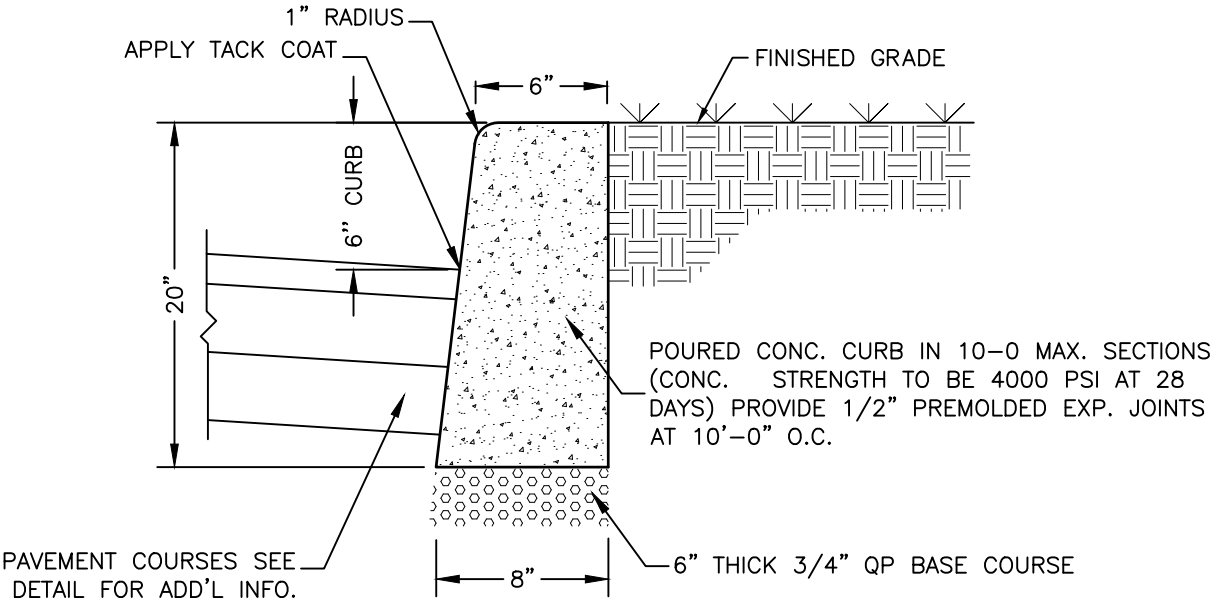


- NOTES:**
1. MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION (NYSDOT) STANDARD SPECIFICATIONS FOR: CONSTRUCTION AND MATERIALS, LATEST EDITION, AND ALL ADDENDA THERETO.
 2. SUBBASE MATERIAL SHALL CONFORM WITH SECTION 304 - SUBBASE COURSE OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS AND THE TYPE CALLED OUT IN THESE DRAWINGS.
 3. HOT MIX ASPHALT (HMA) PAVEMENT SHALL CONFORM WITH SECTION 400 HOT MIX ASPHALT OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS AND THE TYPE CALLED OUT IN THESE DRAWINGS. ALTHOUGH SECTION 400 IN ITS ENTIRETY IS REFERENCED, THE HOT MIX ASPHALT (HMA) PAVEMENT(S) SPECIFIED FOR TL-US CONTRACT SHALL BE AS SPECIFIED UNDER SECTION 402-HOT MIX ASPHALT (HMA) PAVEMENTS.
 4. TACK COAT SPECIFIED OR CALLED OUT IN THESE DRAWINGS OR REQUIRED BY THE REFERENCED SPECIFICATIONS SHALL CONFORM WITH SECTION 407-TACK COAT OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS.
 5. WHERE IT IS NECESSARY TO PLACE FILL FOR PURPOSES OF BRINGING THE SUBGRADE ELEVATION UP TO A SPECIFIED GRADE, THE FILL MATERIAL PLACED SHALL BE IN CONFORMANCE WITH SECTION 203-EXCAVATION AND EMBANKMENT OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS.
 6. THICKNESS INDICATED REFER TO COMPACTED MEASURE.

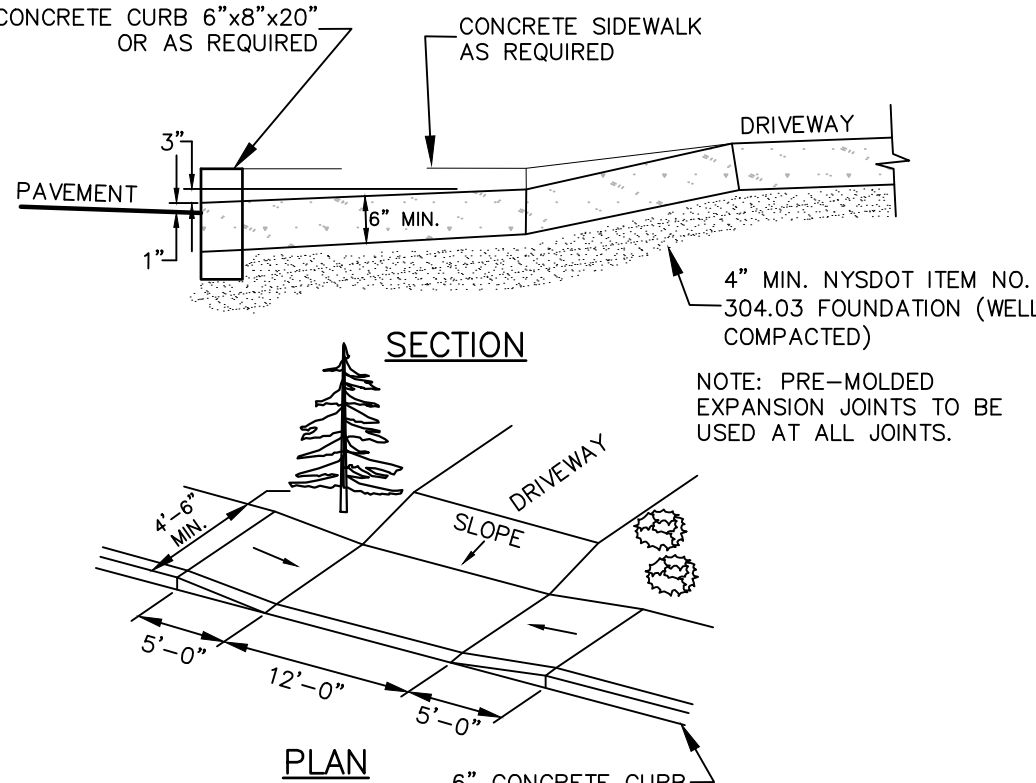
TYPICAL ASPHALT DETAIL FOR DRIVEWAY & PARKING AREAS
NOT TO SCALE



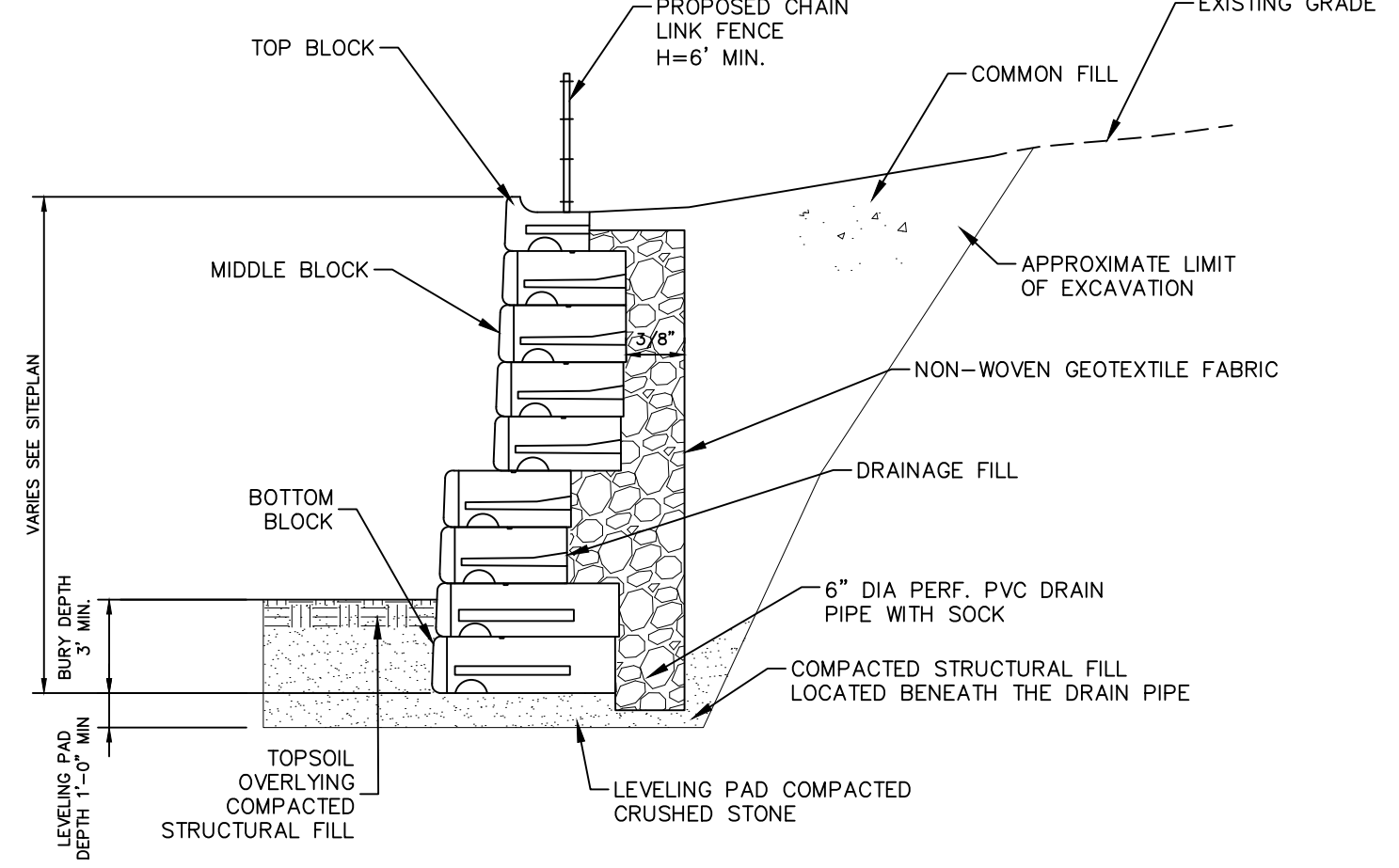
TYPICAL SIDEWALK SECTION
NOT TO SCALE



CONCRETE CURB DETAIL
NOT TO SCALE



DRIVEWAY ENTRANCE DETAIL
NOT TO SCALE



RETAINING WALL TYPICAL CROSS SECTION
NOT TO SCALE

- NOTES:**
1. DESIGN FOR THE RETAINING WALL SHOWN HEREON SHALL BE PREPARED BY A NYS LICENSED PROFESSIONAL ENGINEER AND SUBMITTED TO THE TOWN BUILDING INSPECTOR FOR RECORD PRIOR TO CONSTRUCTION. SUCH DESIGN DRAWINGS (OR SHOP DRAWINGS) SHALL BEAR THE STAMP AND SIGNATURE OF SUCH ENGINEER, AND SHALL BE SPECIFIC FOR THE SITE AND SPECIFIC TO THE RETAINING WALL SYSTEM TO BE UTILIZED AND SHALL CONSIDER ALL APPROPRIATE AND NECESSARY POSSIBLE LOADINGS AND CONDITIONS RELATED TO THIS PROJECT.
 2. THE AFOREMENTIONED DESIGN AND DETAILS SHALL CONSIDER / IDENTIFY / INCLUDE, BUT SHALL NOT BE LIMITED TO: SIGNED AND SEALED DESIGN CALCULATIONS; COMPLETE AND SPECIFIC CONSTRUCTION PLANS AND DETAILS FOR EACH WALL; APPROPRIATE SIZING FOR DRAINAGE SYSTEM TO HANDLE INTENSE STORM CONDITIONS; MAINTENANCE ABILITY TO CLEAN STORMWATER PIPING SYSTEMS; APPROPRIATE BACKFILL MATERIAL SUFFICIENT POROSITY TO ALLOW FREE DRAINAGE OF WATER; EVALUATE POTENTIAL FAILURE BY INTERNAL/EXTERNAL FAILURE MECHANISMS, GLOBAL FAILURE OR OTHER POTENTIAL FAILURES; AND SEISMIC DESIGN CONSIDERATIONS.
 3. IF THE WALL OR WALLS ARE TIERED WALLS, THE DESIGN SHALL INCLUDE AN ANALYSIS OF THE MINIMUM SPACING OF WALLS TO ALLOW THE INDIVIDUAL WALLS TO ACT AS INDIVIDUAL WALLS BASED ON THE SPECIFIC SITE AND CONSTRUCTION CONDITIONS. IF THE WALLS ARE TO BE PLACED CLOSER THAN THE SAME, THE SPECIFIC DESIGN SHALL CONSIDER THE LOADS SUPERIMPOSED BY ONE WALL TO THE OTHER.
 4. DURING CONSTRUCTION, THE WORK MUST BE INSPECTED BY A NYS LICENSED PROFESSIONAL ENGINEER WHO SHALL PROVIDE WRITTEN VERIFICATION TO THE TOWN BUILDING INSPECTOR, PRIOR TO THE REQUEST FOR A CERTIFICATE OF OCCUPANCY, THAT HE/SHE HAS PERSONALLY INSPECTED THE WORK, AND THE INSTALLATION IS IN COMPLIANCE WITH THE DESIGN DRAWINGS AND MANUFACTURER'S INSTALLATION RECOMMENDATIONS.
 5. IF DEEMED NECESSARY BY THE DESIGN ENGINEER AND/OR THE TOWN, THIRD PARTY TESTING WILL BE PERFORMED REGARDING MATERIAL COMPACTION, FILL QUALITY, ETC. A COPY OF ALL SUCH TESTING RECORDS SHALL BE PROVIDED TO THE MUNICIPAL BUILDING DEPARTMENT FOR RECORD.

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

TREE CLEARING NOTE:
NO TREE REMOVAL SHALL OCCUR FROM APRIL 1 TO OCTOBER 31 TO MITIGATE POTENTIAL IMPACTS ON INDIANA BAT & NORTHERN LONG EARED BAT.

Udig NY MUST BE CONTACTED PRIOR TO ANY EXCAVATION OR DEMOLITION

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.

REV.	BY	DATE	DESCRIPTION
1.	MM	06-17-25	PER 05-29-2025 FES COMMENT LETTER
THIS SHEET IS NOT VALID WITHOUT ALL OF THE SHEETS THAT COMPRISE THE SET			
COPYRIGHT 2025, ARDEN CONSULTING ENGINEERS, P.L.L.C. - ALL RIGHTS RESERVED			

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

SITE PLAN PREPARED FOR
40 MANGIN ROAD
VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

CONSTRUCTION DETAILS

JOB#: 25-041	SCALE: AS NOTED
DATE: 04-04-25	DRAWN: MM
CHECKED: MM	SHEET NO. 18 OF 19

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

EXISTING CONDITIONS & SURVEY NOTES:

- 1. SURVEYED WITHOUT THE BENEFIT OF A TITLE SEARCH, SUBJECT TO COVENANTS, EASEMENTS, RESTRICTIONS, CONDITIONS AND AGREEMENTS OF RECORD.
2. CERTIFICATIONS INDICATED HEREON SIGNIFY THAT THIS SURVEY WAS PREPARED IN ACCORDANCE WITH THE EXISTING CODE OF PRACTICE FOR PROFESSIONAL LAND SURVEYORS AS ADOPTED BY THE NEW YORK STATE ASSOCIATION OF PROFESSIONAL LAND SURVEYORS. SAID CERTIFICATIONS SHALL RUN ONLY TO THE PERSON SO NOTED.
3. CERTIFICATIONS ARE NOT TRANSFERABLE TO ADDITIONAL INSTITUTIONS, THEIR SUCCESSORS AND/OR ASSIGNS, OR SUBSEQUENT OWNERS.
4. IF SURFACE STRUCTURES NOT VISIBLE OR READILY APPARENT ARE NOT SHOWN AND THEIR LOCATION AND EXTENT ARE NOT CERTIFIED, THE LOCATION OF UNDERGROUND IMPROVEMENTS OR ENCROACHMENTS ARE NOT ALWAYS KNOWN AND OFTEN MUST BE ESTIMATED. IF ANY UNDERGROUND IMPROVEMENTS OR ENCROACHMENTS EXIST OR ARE SHOWN, THE IMPROVEMENTS OR ENCROACHMENTS ARE NOT COVERED BY THIS CERTIFICATE.
5. THE CONTRACTOR SHALL COMPLY WITH NEW YORK STATE INDUSTRIAL CODE RULE 753 - 48 HOURS PRIOR TO DIGGING CALL UDIG NY TO HAVE PUBLIC UTILITY LOCATIONS PAINTED. ONLY TITLE SURVEYS BEARING THE MAKERS EMBOSSED SEAL SHOULD BE RELIED UPON SINCE OTHER THAN EMBOSSED-SEAL COPIES MAY CONTAIN UNAUTHORIZED AND UNDETECTABLE MODIFICATIONS, DELETIONS, ADDITIONS, AND CHANGES.
7. BOUNDARY LINES SHOWN HEREON ARE APPROXIMATE AND ARE SUBJECT TO WHATEVER STATE OF FACTS THAT AN ACCURATE BOUNDARY SURVEY MAY REVEAL.

GRADING NOTES:

- 1. PRIOR TO SITE DISTURBANCE, CONTRACTOR TO INSTALL EROSION & SEDIMENT CONTROL MEASURES.
2. IF ROCK IS ENCOUNTERED DURING CONSTRUCTION & REMOVAL BY BLASTING IS REQUIRED, THE CONTRACTOR SHALL OBTAIN ALL NECESSARY APPROVALS AND PERMITS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
3. ALL BLASTING OPERATIONS WILL ADHERE TO NEW YORK STATE AND LOCAL AUTHORITY ORDINANCES GOVERNING THE USE OF EXPLOSIVES, THE STATE REGULATIONS ARE CONTAINED IN 12 NYCRR 39 AND INDUSTRIAL CODE RULE 753.
4. STRIP ALL TOPSOIL PRIOR TO COMMENCING EARTHWORK OPERATIONS. TOPSOIL MAY BE STORED AND REUSED IN LAWN AND PLANTING AREAS ONLY. TOPSOIL AND SEED ALL AREAS DISTURBED BY CONSTRUCTION THAT ARE TO REMAIN GREEN.
5. BOX ALL TREES AND HOUSE ALL SHRUBS AND HEDGES BEFORE PLACING EARTH AGAINST OR NEAR THEM. ORNAMENTAL TREES, SHRUBS AND HEDGES WHICH MUST BE REMOVED DURING CONSTRUCTION SHALL BE HEALED IN AND RE-PLANTED IN AS GOOD A CONDITION AS THEY WERE BEFORE THEIR REMOVAL. ANY DAMAGED TREES, SHRUBS, AND/OR HEDGES SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
6. ALL EARTHWORK SHALL BE SMOOTHLY AND EVENLY BLENDED INTO EXISTING CONDITIONS. NO WORK, STORAGE OR TRESPASS SHALL BE PERMITTED BEYOND THE BOUNDARIES OF ANY EASEMENT OR PROPERTY LINE.
7. REMOVE ALL VEGETATION, TREES, STUMPS, PERMISSES, ORGANIC SOILS, DEBRIS AND DELETERIOUS MATERIALS WITHIN THE AREAS SLATED FOR CONSTRUCTION.
8. IF PREVIOUSLY UNKNOWN CULTURAL ARCHEOLOGICAL, OR HISTORIC REMAINS OR ARTIFACTS ARE DISCOVERED IN THE COURSE OF CONSTRUCTION OF THIS PROJECT, THE PROJECT SPONSORS SHALL SUSPEND CONSTRUCTION OPERATIONS IN THE PERTINENT AREA AND SHALL NOTIFY THE PROJECT ENGINEER.

DEMOLITION NOTES:

- 1. REFER TO REQUIREMENTS OUTLINED IN THE EROSION & SEDIMENTS CONTROL PLANS & NOTES PRIOR TO COMMENCEMENT OF WORK.
2. EXISTING STRUCTURES ARE TO BE REMOVED PRIOR TO CONSTRUCTION OF NEW IMPROVEMENTS.
3. BUILDING(S)/STRUCTURE(S) TO BE DEMOLISHED ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE NOT TO BE DEMOLISHED AS PART OF THIS WORK. PRIOR TO DEMOLISHING ANY BUILDINGS/STRUCTURES, THE CONTRACTOR SHALL PERFORM A PRE-DEMOLITION SURVEY IN ACCORDANCE WITH STATE AND FEDERAL REGULATIONS GOVERNING THE DISPOSAL OF SOLID WASTE. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND APPROVALS BY THE AUTHORITY HAVING JURISDICTION.
4. CONFORM TO APPLICABLE CODE FOR DEMOLITION OF STRUCTURES, SAFETY OF ADJACENT STRUCTURES, DUST CONTROL, RUNOFF CONTROL, AND HAULING, DISPOSAL AND STORAGE OF DEBRIS.
5. PROVIDE, ERECT, AND MAINTAIN TEMPORARY BARRIERS AND SECURITY DEVICES.
6. MAINTAIN EXISTING UTILITIES TO REMAIN IN SERVICE AND PROTECT THEM AGAINST DAMAGE DURING SELECTIVE DEMOLITION OPERATIONS. DO NOT INTERRUPT EXISTING UTILITIES SERVING OPERATING FACILITIES, EXCEPT WHEN AUTHORIZED IN WRITING BY OWNER AND AUTHORITIES HAVING JURISDICTION.
7. NOTIFY ADJACENT OWNERS OF WORK THAT MAY AFFECT THEIR PROPERTY, POTENTIAL NOISE, UTILITY OUTAGE OR DISRUPTION, COORDINATE WITH OWNER.
8. PREVENT MOVEMENT OR SETTLEMENT OF ADJACENT STRUCTURES. PROVIDE BRACING AND SHORING.
9. LOCATE AND IDENTIFY ALL EXISTING UTILITIES WITHIN THE CONSTRUCTION AREA. DISCONNECT AND SEAL OR CAP OFF UTILITY SERVICES THAT WILL BE AFFECTED BY THIS PROJECT. NOTIFY AFFECTED UTILITY COMPANIES BEFORE STARTING WORK AND COMPLY WITH THEIR REQUIREMENTS. VERIFY THAT UTILITIES HAVE BEEN DISCONNECTED AND CAPPED.
10. DEMOLISH AND REMOVE COMPONENTS IN AN ORDERLY AND CAREFUL MANNER.
11. PROTECT EXISTING FEATURES THAT ARE NOT TO BE DEMOLISHED.
12. CONDUCT OPERATIONS WITH MINIMUM INTERFERENCE TO PUBLIC OR PRIVATE ACCESSES.
13. MAINTAIN EGRESS AND ACCESS AT ALL TIMES. DO NOT CLOSE OR OBSTRUCT ROADWAYS, OR SIDEWALKS WITHOUT PERMITS. COORDINATE WITH AUTHORITY HAVING JURISDICTION.
14. CEASE OPERATIONS IMMEDIATELY IF ADJACENT STRUCTURES APPEAR TO BE IN DANGER. NOTIFY AUTHORITY HAVING JURISDICTION.
15. ROUGH GRADE AND COMPACT AREAS AFFECTED BY DEMOLITION TO MAINTAIN SITE GRADES AND CONTOURS.
16. FIELD VERIFY EXISTING CONDITIONS AND CORRELATE WITH REQUIREMENTS INDICATED ON DEMOLITION PLAN TO DETERMINE EXTENT OF SELECTIVE DEMOLITION REQUIRED.
17. CONDUCT DEMOLITION OPERATIONS AND REMOVE DEBRIS TO ENSURE MINIMUM INTERFERENCE WITH SELECTIVE DEMOLITION OPERATIONS.
18. CONDUCT DEMOLITION OPERATIONS TO PREVENT INJURY TO PEOPLE AND DAMAGE TO ADJACENT BUILDINGS AND FACILITIES TO REMAIN. ENSURE SAFE PASSAGE OF PEOPLE AROUND SELECTIVE DEMOLITION AREA.
19. USE WATER MIST, TEMPORARY ENCLOSURES AND OTHER SUITABLE METHODS TO LIMIT THE SPREAD OF DUST AND DIRT. COMPLY WITH GOVERNING ENVIRONMENTAL PROTECTION REGULATIONS. DO NOT USE WATER WHEN IT MAY DAMAGE EXISTING CONSTRUCTION, SUCH AS CAUSING ICING, FLOODING, AND TRANSPORTING POLLUTANTS.
20. REMOVE AND TRANSPORT DEBRIS IN A MANNER THAT WILL PREVENT SPILLAGE ON ADJACENT SURFACES AND AREAS.
21. CLEAN ADJACENT STRUCTURES AND IMPROVEMENTS OF DUST, DIRT AND DEBRIS CAUSED BY SELECTIVE DEMOLITION OPERATIONS. RETURN ADJACENT AREAS TO CONDITION EXISTING BEFORE START OF SELECTIVE DEMOLITION.
22. PROMPTLY DISPOSE OF DEMOLISHED MATERIALS. ALL DEBRIS RESULTING FROM DEMOLITION ACTIVITIES SHALL BE DISPOSED OF OFF-SITE AT A FACILITY APPROVED TO RECEIVE THE DEBRIS. DO NOT ALLOW DEMOLISHED MATERIALS TO ACCUMULATE ON-SITE. DO NOT BURN DEMOLISHED MATERIALS ON-SITE.

GENERAL CONSTRUCTION:

- 1. THE CONTRACTOR SHALL PROTECT EXISTING PROPERTY LINE MONUMENTATION, ANY MONUMENTATION DISTURBED OR DESTROYED, AS JUDGED BY THE ENGINEER OR OWNER, SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE AND UNDER THE SUPERVISION OF A NEW YORK STATE LICENSED LAND SURVEYOR.
2. ALL PAVEMENT RESTORATION SHALL MEET AND MATCH EXISTING GRADES.
3. ALL SAWCUT LINES SHALL BE PARALLEL AND CURVILINEAR TO EXISTING OR PROPOSED CURBING AND SHALL BE A CONSTANT DISTANCE OF 18" MIN WORK.
4. ALL ARCHITECTURE IS SUBJECT TO PLANNING BOARD REVIEW.
5. NOTIFY ENGINEER 48 HOURS PRIOR TO INITIALIZATION OF ANY WORK ON SITE.
6. THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY CONDITIONS THAT VARY FROM THOSE SHOWN ON THE PLANS. THE CONTRACTOR'S WORK SHALL NOT VARY FROM THE PLANS WITHOUT PRIOR REVIEW FROM THE ENGINEER.
7. CONTRACTOR IS RESPONSIBLE FOR EMPLOYING AND MAINTAINING ALL TRAFFIC CONTROL AND SAFETY MEASURES DURING CONSTRUCTION.
8. CONTRACTOR IS RESPONSIBLE FOR PROPERLY & SAFELY MAINTAINING AREA BETWEEN ALL ADJOINING PROPERTIES.
9. NO WORK, STORAGE OR TRESPASS SHALL BE PERMITTED BEYOND THE SITE PROPERTY LINES OR PUBLIC RIGHT-OF-WAY.
10. ALL EXISTING LAWN AREA, CURBING, PAVING, SIDEWALKS, CULVERTS OR OTHER PUBLIC OR PRIVATE PROPERTY DAMAGED BY TRENCHING OR EXCAVATION OPERATIONS SHALL BE REPLACED OR REPAIRED TO A CONDITION EQUAL TO EXISTING, AS DESCRIBED IN CONTRACT DOCUMENTS OR AS ORDERED BY ENGINEER (AOBE). MAILBOXES, SIGN POSTS, ETC. SHALL BE PROTECTED OR REMOVED AND REPLACED EXACTLY AS THEY WERE BEFORE BEING DISTURBED. REMOVE AND REPLACE AFFECTED CURBING AND SIDEWALK TO NEAREST JOINT. REMOVE PAVEMENT AND REPLACE TO SAW CUT LINE. SAW CUT IN STRAIGHT LINE TO POINT NEEDED TO BLEND GRADE, REMOVE LAWN AND REPLACE TO MINIMUM LIMIT OF EXCAVATION.
11. NO SITE PREPARATION OR CONSTRUCTION SHALL COMMENCE UNTIL ALL REQUIRED PERMITTING AND APPROVALS HAVE BEEN OBTAINED.
12. MATERIALS, WORKMANSHIP, AND CONSTRUCTION FOR THE SITE IMPROVEMENTS SHOWN HEREON SHALL BE IN ACCORDANCE WITH:
A. NEW YORK STATE DEPARTMENT OF TRANSPORTATION " STANDARD SPECIFICATIONS", 2008, AS SUPPLEMENTED.
B. CURRENT PREVAILING MUNICIPAL, COUNTY, AND/OR STATE AGENCY SPECIFICATIONS, STANDARDS, CONDITIONS, AND REQUIREMENTS.
C. CURRENT PREVAILING UTILITY COMPANY/AUTHORITY SPECIFICATIONS, STANDARDS, AND REQUIREMENTS.
D. CURRENT MANUFACTURER SPECIFICATIONS, STANDARDS, AND REQUIREMENTS.

PAVING:

- 1. NO VEHICULAR TRAFFIC OF ANY SORT SHALL BE PERMITTED ON THE SURFACE OF SUBBASE COURSE MATERIAL ONCE IT HAS BEEN FINE GRADED, COMPACTED, AND READY FOR PAVING. SUBBASE MATERIAL SO PREPARED FOR PAVING SHALL BE PAVED WITHIN THREE DAYS OF PREPARATION.
2. SUBBASE MATERIAL AND THE VARIOUS ASPHALT CONCRETE MATERIALS CALLED FOR IN THESE DRAWINGS SHALL CONFORM WITH REFERENCED SECTION OF THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, DATED MAY 1, 2008. CONSTRUCTION SHALL BE AS FURTHER SET FORTH IN THOSE SPECIFICATIONS AND AS OTHERWISE PROVIDED FOR IN THESE DRAWINGS.
3. PLACE ASPHALT CONCRETE MIXTURE ON PREPARED SURFACE, SPREAD AND STRIKE-OFF USING A SELF-PROPELLED PAVING MACHINE WITH VIBRATING SCREED. PLACEMENT IN INACCESSIBLE AND SMALL AREAS MAY BE BY HAND.
4. PROVIDE JOINTS BETWEEN OLD AND NEW PAVEMENTS OR BETWEEN SUCCESSIVE DAYS WORK.
5. TACK COAT MEANS SPECIFIED OR CALLED OUT ON THE DRAWINGS OR REQUIRED BY THE REFERENCED SPECIFICATION SHALL CONFORM WITH THE FOLLOWING:
A. TACK COAT SHALL MEET THE MATERIAL REQUIREMENTS OF 702-90 ASPHALT EMULSION SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, DATED MAY 1, 2008, SHALL BE APPLIED IN ACCORDANCE WITH SECTION 407 - TACK COAT SHALL BE IN ACCORDANCE WITH THOSE SPECIFICATIONS AND AS OTHERWISE PROVIDED FOR IN THESE DRAWINGS.
B. REMOVE LOOSE AND FOREIGN MATERIAL FROM ASPHALT SURFACE BEFORE PAVING NEXT COURSE. USE POWER BROOMS, BLOWERS OR HAND BROOM.
C. APPLY TACK COAT TO ASPHALT PAVEMENT SURFACES & SURFACES OF CURBS, GUTTERS, MANHOLES, AND OTHER STRUCTURES PROJECTING INTO OR ABUTTING PAVEMENT. DRY TO A "TACKY" CONSISTENCY BEFORE PAVING.
D. TACK COAT ENTIRE VERTICAL SURFACE OF ABUTTING EXISTING PAVEMENT.
6. AFTER COMPLETION OF PAVING AND SURFACING OPERATIONS, CLEAN SURFACES OF EXCESS OR SPILLED ASPHALT, GRAVEL OR STONE MATERIALS TO THE SATISFACTION OF THE ENGINEER.
7. ALL CURBING SHALL BE CONCRETE.

STRIPING:

- 1. STRIPE PAVEMENT AS INDICATED ON THE PLANS AND/OR IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REQUIREMENTS.
2. COLOR: DRIVE LANE DIVIDERS-WHITE OR AOBE NO PARKING ZONE WARNINGS-WHITE OR AOBE. PARKING DIVIDERS-WHITE OR AOBE. WALKING LINES-WHITE OR AOBE. HANDICAP PARKING LINES & SYMBOLS-BLUE.

SITE PLAN MAP NOTES:

- 1. NO BUILDING PERMIT FOR A BUILDING SUBJECT TO SITE PLAN APPROVAL SHALL BE ISSUED BY THE BUILDING INSPECTOR EXCEPT UPON AUTHORIZATION OF AND IN CONFORMITY WITH THE SITE PLAN APPROVED BY THE PLANNING BOARD.
2. ALL TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE NEW YORK STATE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

UTILITY PLAN NOTES:

- 1. ALL UNDERGROUND UTILITIES ARE SHOWN IN THEIR RELATIVE POSITION AND ARE FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR TO VERIFY THEIR ACTUAL LOCATION IN THE FIELD PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
2. ANY CONDITION ENCOUNTERED IN THE FIELD DIFFERING FROM THOSE SHOWN HEREON, SHALL BE REPORTED TO THE DESIGN ENGINEER BEFORE CONSTRUCTION IS TO PROCEED.
3. SEWER MAINS IN RELATION TO WATER MAINS: WHERE POSSIBLE, SEWERS SHALL BE LAID AT LEAST 10 (TEN) FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED WATER MAIN. VERTICAL SEPARATION SHALL BE MAINTAINED TO PROVIDE 18 (EIGHTEEN) INCHES BETWEEN TOP OF SEWER AND BOTTOM OF THE WATER MAIN AT UTILITY CROSSINGS, WHEN NOT POSSIBLE TO OBTAIN THE PROPER VERTICAL SEPARATION, SEWER PIPE SHALL BE PRESSURE RATED AND TESTED @ 150psi, 10 (TEN) FEET ON EACH SIDE OF THE WATER MAIN BEING CROSSED.
4. ALL PROPOSED UTILITIES SHALL BE COORDINATED WITH BUILDING PLANS FOR ANY CONNECTIONS.
5. ALL STORM SEWER SHALL BE SMOOTH INTERIOR HDPE UNLESS OTHERWISE SPECIFIED.
6. ALL GRAVITY SANITARY SEWER SHALL BE SDR 35 PVC, CONFORMING TO ASTM SPECIFICATION D-3034. MINIMUM PIPE STIFFNESS (F'Y) AT 5X DEFLECTION SHALL BE 46 PSI WHEN TESTED IN ACCORDANCE WITH ASTM SPECIFICATION D-2412. ALL JOINTS AND CONNECTIONS SHALL BE MADE WATERTIGHT.
7. CONTRACTOR TO VERIFY STATUS OF ALL UTILITY SERVICES PRIOR TO INTERRUPTION.
8. EXPLORATORY EXCAVATIONS SHALL BE PERFORMED BY THE CONTRACTOR AT ALL UTILITY CONNECTION LOCATIONS AND AS NEEDED TO VERIFY EXISTING CONDITIONS PRIOR TO PERFORMING WORK.
9. BEFORE CONSTRUCTING LINES TO CONNECT TO EXISTING UTILITIES, VERIFY EXISTING UTILITY INVERTS AND NOTIFY THE ENGINEER IF ANY VARIATION FROM THE PLAN IS REQUIRED.
10. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITIES IN SERVICE FOR THE DURATION OF THE WORK.
11. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIRED PERMITS AND ASSOCIATED CONDITIONS.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING UTILITY TRENCHES AND EXCAVATIONS AND FOR THE MAINTENANCE OF SURFACE DRAINAGE DURING THE COURSE OF THE WORK.
13. ALL PROPOSED UTILITIES SHALL TERMINATE 5 FEET FROM ANY PROPOSED BUILDING FACE. CONTRACTOR TO COORDINATE WITH BUILDING PLANS FOR ANY CONNECTIONS.
14. A NEW YORK STATE LICENSED PROFESSIONAL ENGINEER SHALL INSPECT THE SANITARY FACILITIES (WATER DISTRIBUTION, ANY WATER TREATMENT, AND SEWAGE FACILITIES) AT THE TIME OF CONSTRUCTION. PRIOR TO OCCUPANCY OF THE DWELLING(S), THE ENGINEER SHALL CERTIFY TO THE THE LOCAL CODE ENFORCEMENT OFFICER THAT THE FACILITIES HAVE BEEN INSTALLED IN ACCORDANCE WITH THE APPROVED PLANS.
16. TELEPHONE, ELECTRIC, AND GAS LINES SHALL BE INSTALLED UNDERGROUND, CROSSINGS OF PROPOSED PAVEMENTS SHALL BE INSTALLED PRIOR TO THE CONSTRUCTION OF PAVEMENT TOP COURSE.

TREE CLEARING NOTE:

NO TREE REMOVAL SHALL OCCUR FROM APRIL 1 TO OCTOBER 31 TO MITIGATE POTENTIAL IMPACTS ON INDIANA BAT & NORTHERN LONG EARED BAT.

Udig NY MUST BE CONTACTED PRIOR TO ANY EXCAVATION OR DEMOLITION AND CHANGES.

GENERAL NOTES:

- 1. UNDERGROUND FACILITIES AND STRUCTURES SHOWN HEREON WERE TAKEN FROM DATA OBTAINED FROM PREVIOUS MAPS AND RECORD DRAWINGS, ALL ABOVE GROUND STRUCTURES AND SURFACE FEATURES SHOWN HEREON ARE THE RESULT OF A FIELD SURVEY UNLESS OTHERWISE NOTED. THERE MAY BE OTHER UNDERGROUND UTILITIES, THE EXISTENCE OF WHICH ARE NOT KNOWN OR CERTIFIED BY THE UNDERSIGNED. SIZE AND LOCATION OF ALL UNDERGROUND UTILITIES AND STRUCTURES MUST BE VERIFIED BY THE APPROPRIATE AUTHORITIES. THE UNDERGROUND FACILITIES PROTECTIVE ORGANIZATION MUST BE NOTIFIED PRIOR TO CONDUCTING TEST BORINGS, EXCAVATION AND CONSTRUCTION.
2. THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA. EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THE SURVEYOR DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.
3. CONTRACTOR SHALL FIELD VERIFY EXISTING GRADES, EXISTING STRUCTURE LOCATIONS AND OTHER EXISTING CONDITIONS PRIOR TO CONSTRUCTION AND SHALL REPORT ANY DISCREPANCIES TO THE OWNER'S REPRESENTATIVE FOR FURTHER RESOLUTION. SUCH CONDITIONS COULD RENDER THE DESIGNS HEREON INAPPROPRIATE OR INEFFECTIVE.
4. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT OTHER CONTRACTORS MAY BE WORKING IN THE AREA ON OTHER CONSTRUCTION AT THE SAME TIME THAT WORK IS PERFORMED UNDER THIS CONTRACT. THE CONTRACTOR SHALL BE AWARE OF THE NATURE AND EXTENT OF THIS OTHER WORK AND SHALL SCHEDULE AND CONDUCT HIS OWN OPERATION SO THAT THERE WILL BE NO CONFLICT IN OPERATIONS.
5. SINCE THIS PROJECT INVOLVES CONSTRUCTION WITHIN AN ACTIVE ROADWAY, IT IS IMPERATIVE THAT THE CONSTRUCTION BE CARRIED FORTH IN SUCH A MANNER AS TO INSURE THAT PROPER TRAFFIC FLOW IS MAINTAINED DURING CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE MAINTENANCE AND PROTECTION OF TRAFFIC IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND STANDARD SPECIFICATIONS.
6. THE CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS AND DIMENSIONS AND SHALL BE RESPONSIBLE FOR FIELD FIT FINISH AND QUALITY OF WORK AND MATERIALS USED IN THE CONSTRUCTION. NO ALLOWANCE SHALL BE MADE ON BEHALF OF THE CONTRACTOR FOR ANY ERROR OR NEGLECT ON HIS PART.
7. THE CONTRACTOR IS RESPONSIBLE FOR THE REPLACEMENT AND RESTORATION OF ALL NATURAL AND MANMADE FEATURES WHETHER SHOWN ON THE PLANS OR ENCOUNTERED IN THE FIELD. IT IS THE INTENTION OF THE PLANS TO SHOW ONLY MAJOR FEATURES TO BE PROTECTED, RESTORED OR REPLACED.
8. PROTECTION AND RESTORATION OF PROPERTY SHALL BE IN ACCORDANCE WITH THE NYS DOT STANDARD SPECIFICATIONS.
9. TOPSOIL SHALL BE PLACED AND AREAS SHALL BE SEEDED AS SOON AS FINAL GRADES ARE ESTABLISHED ON PERMANENT SLOPES. SLOPES SHALL ALSO BE MULCHED.
10. THE CONTRACTOR SHALL CONTACT ALL THE APPROPRIATE PARTIES WITH JURISDICTION OVER THE UTILITIES ENTERING ON OR NEAR THE PROJECT AREA PRIOR TO INITIATION OF CONSTRUCTION OPERATIONS AND PROVIDE THIRTY TWO HOURS NOTICE.
11. THE CONTRACTOR SHALL VERIFY THE LOCATION OF AND SHALL BE RESPONSIBLE FOR THE PRESERVATION OF ALL PUBLIC AND PRIVATE UNDERGROUND AND SURFACE UTILITIES AND STRUCTURES AT OR ADJACENT TO THE SITE OF CONSTRUCTION. IN SO FAR AS THEY MAY BE ENDANGERED BY HIS OPERATIONS, THIS SHALL HOLD TRUE WHETHER OR NOT THEY ARE SHOWN ON THE CONTRACT DRAWINGS. IF THEY ARE SHOWN ON THE DRAWINGS, THEIR LOCATIONS ARE NOT GUARANTEED EVEN THOUGH THE INFORMATION WAS OBTAINED FROM THE BEST AVAILABLE SOURCES, AND IN ANY EVENT, OTHER UTILITIES NOT SHOWN ON THESE PLANS MAY BE ENCOUNTERED IN THE FIELD. THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, REPAIR OR REPLACE ANY STRUCTURES OR UTILITIES THAT HE DAMAGES, AND SHALL CONSTANTLY PROCEED WITH CAUTION TO PREVENT UNDUE INTERRUPTION TO UTILITY SERVICES.
12. IF TEMPORARY UTILITY SERVICES ARE REQUIRED, THE CONTRACTOR SHALL SEE TO IT THAT THEY ARE PROVIDED, AT NO ADDITIONAL COST TO THE OWNER, AND IT SHALL BE HIS RESPONSIBILITY TO MAINTAIN SUCH TEMPORARY FACILITIES FOR THE DURATION OF THE PROJECT AS NECESSARY.
13. ALL EPOXY PAVEMENT MARKINGS AND ALL SIGNS SHALL BE IN CONFORMANCE WITH THE NYS DOT MUTCD.
14. ALL SIGNING WILL BE IN ACCORDANCE WITH THE NATIONAL MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES WITH NYS SUPPLEMENT, MOST RECENT VERSION.
15. PRIOR TO LEAVING THE WORK SITE EACH DAY, THE CONTRACTOR SHALL REMOVE OR PROTECT ANY PART OF THE WORK SITE THAT IS CONSIDERED HAZARDOUS TO THE TRAVELING PUBLIC, BY THE VILLAGE ENGINEER OR POLICE DEPARTMENT.
16. DURING ALL CONSTRUCTION OPERATIONS THE CONTRACTOR SHALL MAINTAIN ACCESS TO EACH ADJACENT SITE. IF CONDITIONS REQUIRE THAT ACCESS BE TEMPORARILY CLOSED, THE CONTRACTOR SHALL NOTIFY THE OWNER AT LEAST 24 HOURS IN ADVANCE. ALL ACCESS DRIVES WILL BE OPEN FOR SAFE USE AT THE END OF EACH WORK DAY.
17. AREAS DISTURBED NOT RECEIVING PAVEMENT OR CONCRETE SHALL BE TOPSOILED, SEEDED, AND MULCHED IN ACCORDANCE WITH SPECIFICATIONS ON ATTACHED SHEETS.
18. THE CONTRACTOR IS RESPONSIBLE FOR PROJECT SAFETY, INCLUDING PROVISION OF ALL APPROPRIATE SAFETY DEVICES AND TRAINING REQUIRED.
19. ARDEN CONSULTING ENGINEERS, PLLC WILL REVIEW AND APPROVE OR TAKE OTHER APPROPRIATE ACTION ON THE CONTRACTOR SUBMITTALS, SUCH AS SHOP DRAWING, PRODUCT DATA, SAMPLES, AND OTHER DATA, WHICH THE CONTRACTOR IS REQUIRED TO SUBMIT, BUT ONLY FOR THE LIMITED PURPOSE OF CHECKING FOR CONFORMANCE WITH THE DESIGN INTENT AND THE INFORMATION SHOWN IN THE CONSTRUCTION CONTRACT DOCUMENTS. CONSTRUCTION MEANS AND/OR METHODS, COORDINATION OF THE WORK WITH OTHER TRADES, AND CONSTRUCTION SAFETY PRECAUTIONS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. ARDEN CONSULTING ENGINEERS, PLLC SHOP DRAWING REVIEW SHALL BE CONDUCTED WITH REASONABLE PROMPTNESS WHILE ALLOWING SUFFICIENT TIME TO PERMIT ADEQUATE REVIEW. REVIEW OF A SPECIFIC ITEM SHALL NOT INDICATE THAT ARDEN CONSULTING ENGINEERS, PLLC HAS REVIEWED THE ENTIRE ASSEMBLY OF WHICH THE ITEM IS A COMPONENT. ARDEN CONSULTING ENGINEERS, PLLC WILL NOT BE RESPONSIBLE FOR ANY DEVIATIONS FROM THE CONSTRUCTION DOCUMENTS NOT BROUGHT TO HIS ATTENTION, IN WRITING, BY THE CONTRACTOR. ARDEN CONSULTING ENGINEERS, PLLC WILL NOT BE REQUIRED TO REVIEW PARTIAL SUBMISSIONS OF CORRELATED ITEMS NOT RECEIVED.
20. NEITHER THE PROFESSIONAL ACTIVITIES OF ARDEN CONSULTING ENGINEERS, PLLC, NOR THE PRESENCE OF ARDEN CONSULTING ENGINEERS, PLLC OR ITS EMPLOYEES AND SUB-CONSULTANTS AT A CONSTRUCTION/PROJECT SITE, SHALL RELIEVE THE GENERAL CONTRACTOR OF HIS OBLIGATIONS, DUTIES AND RESPONSIBILITIES, INCLUDING, BUT NOT LIMITED TO, CONSTRUCTION MEANS, METHODS, SEQUENCE, TECHNIQUES OR PROCEDURES NECESSARY FOR PERFORMING, SUPERINTENDING AND COORDINATING THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND ANY HEALTH AND SAFETY PRECAUTIONS REQUIRED BY ANY REGULATORY AGENCIES. ARDEN CONSULTING ENGINEERS, PLLC AND ITS PERSONNEL HAVE NO AUTHORITY TO EXERCISE ANY CONTROL OVER ANY CONSTRUCTION CONTRACTOR OR ITS EMPLOYEES IN CONNECTION WITH THEIR WORK OR ANY HEALTH OR SAFETY PROGRAMS OR PROCEDURES. THE GENERAL CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOB SITE SAFETY. ARDEN CONSULTING ENGINEERS, PLLC SHALL BE INDEMNIFIED BY THE GENERAL CONTRACTOR AND SHALL BE NAMED AN ADDITIONAL INSURED UNDER THE GENERAL CONTRACTOR'S POLICIES OF GENERAL LIABILITY INSURANCE.
21. IF THE CONTRACTOR DEVIATES FROM THE PLANS AND SPECIFICATIONS, INCLUDING THE NOTES CONTAINED HEREIN, WITHOUT FIRST OBTAINING THE PRIOR WRITTEN AUTHORIZATION OF THE DESIGN ENGINEER AND MUNICIPAL BUILDING DEPARTMENT AND/OR MUNICIPAL ENGINEER FOR SUCH DEVIATIONS, CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE PAYMENT OF ALL COSTS INCURRED IN CORRECTING ANY WORK DONE WHICH DEVIATES FROM THE PLANS, ALL FINES AND/OR PENAL TIES ASSESSED WITH RESPECT THERETO AND ALL COMPENSATORY OR PUNITIVE DAMAGES RESULTING THEREFROM. THE CONTRACTOR SHALL INDEMNIFY AND HOLD THE OWNER, ENGINEER, AND MUNICIPALITY HARMLESS FROM ALL SUCH COSTS RELATED TO SAME.
22. THESE NOTES SHALL APPLY TO ALL SHEETS IN THIS SET.

LAYOUT:

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL FIELD LAYOUT. THE CONTRACTOR SHALL TAKE TIES TO ALL UTILITY CONNECTIONS AND PROVIDE MARKED-UP AS BUILT PLANS FOR ALL UTILITIES SHOWING TIES TO CONNECTIONS, BENDS, VALVES, LENGTHS OF LINES AND INVERTS. AS-BUILT PLANS SHALL BE REVIEWED BY THE OWNER AND THE ENGINEER AND THE CONTRACTOR SHALL PROVIDE ANY CORRECTION OR ADDITIONS TO THE SATISFACTION OF THE OWNER OR THE ENGINEER BEFORE UTILITIES WILL BE ACCEPTED.
2. THE CONTRACTOR SHALL PROTECT EXISTING PROPERTY MONUMENTATION, ANY MONUMENTATION DISTURBED OR DESTROYED, AS JUDGED BY THE ENGINEER OR OWNER, SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE AND UNDER THE SUPERVISION OF A NEW YORK STATE LICENSED LAND SURVEYOR.
3. THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY CONDITIONS THAT VARY FROM THOSE SHOWN ON THE PLANS. THE CONTRACTOR'S WORK SHALL NOT VARY FROM THE PLANS WITHOUT PRIOR REVIEW BY THE ENGINEER.
4. BUILDING DIMENSIONS TO BE TAKEN FROM ARCHITECTURAL BUILDING PLANS. NOTIFY THE ENGINEER OF ANY DEVIATION FROM CONDITIONS SHOWN ON THIS PLAN.
5. ALL HORIZONTAL AND VERTICAL CONTROL DATA ON THE PROJECT SHALL BE PROVIDED BY A LICENSED SURVEYOR.

TRENCHING & INSTALLATION NOTES:

- 1. ALL AREAS DISTURBED DURING TRENCHING AND WORK OPERATIONS MUST BE STABILIZED WITHIN 14 DAYS.
2. ALL TRENCHING IN PAVEMENT SHOULD BE SAW-CUT PRIOR TO TRENCHING. PAVEMENT RESTORATIONS MAY REQUIRE ADDITIONAL CUTBACKS AFTER TRENCHING OPERATIONS HAVE BEEN COMPLETED.
3. ALL PAVED AREAS MUST BE RESTORED WITH A MINIMUM OF 4" TEMPORARY PAVING AT THE CLOSE OF EACH DAY'S WORK OPERATIONS.
4. PERMANENT PAVING MUST BE COMPLETED AT AMBIENT TEMPERATURES OF 40 DEGREES AND RISING. ANY PAVING OPERATIONS COMPLETED BELOW 40 DEGREES SHALL BE CONSIDERED TEMPORARY.
5. ALL SIGNS REMOVED FOR CONSTRUCTION MUST BE RESET USING TYPE A POSTS.

ROCK REMOVAL NOTES:

- 1. ALL RECOMMENDED SAFETY REQUIREMENTS AND STANDARDS REFERENCED AND ANY LOCAL RESTRICTIONS SHALL BE APPLIED AS REQUIRED FOR SAFETY, SECURITY, AND SPECIFICALLY RELATED DETAILS FOR BLASTING PROCEDURES, AT ALL TIMES. FEDERAL, STATE, AND LOCAL LAWS AND ORDINANCES WILL BE FOLLOWED CONCERNING THE TRANSPORTATION AND STORAGE OF EXPLOSIVES.
2. A MINIMUM OF FOUR (4) WEEKS PRIOR TO COMMENCEMENT OF THE INITIAL BLASTING OPERATIONS, THE CONTRACTOR SHALL NOTIFY THE FOLLOWING AGENCIES AS APPROPRIATE: POLICE AGENCIES, GAS AND ELECTRIC SERVICE COMPANIES, TELEPHONE AND CABLE OPERATING COMPANIES, TOWN WATER AND SEWER DEPARTMENTS, NYS DOT, AND LOCAL FIRE, RESCUE, AND AMBULANCE SERVICES.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE RESULTING FROM THE USE OF EXPLOSIVES. EXPLOSIVES SHALL BE STORED IN A SECURE MANNER IN COMPLIANCE WITH FEDERAL, STATE, AND LOCAL LAWS AND ORDINANCES.
4. THE CONTRACTOR SHALL NOTIFY EACH PROPERTY AND UTILITY OWNER HAVING A BUILDING, STRUCTURE, OR OTHER INSTALLATION ABOVE OR BELOW GROUND IN PROXIMITY TO THE SITE OF THE WORK OF HIS INTENTION TO USE EXPLOSIVES. NOTICE SHALL BE GIVEN SUFFICIENTLY IN ADVANCE TO ENABLE THE OWNERS TO TAKE STEPS TO PROTECT THEIR PROPERTY. NOTICE SHALL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR DAMAGE RESULTING FROM HIS BLASTING OPERATIONS.
5. THE CONTRACTOR SHALL SCHEDULE AND CONDUCT PRE-BLAST SURVEYS WITH PROPERTY OWNERS LOCATED IN THE AREA POTENTIALLY AFFECTED BY AIRBLAST OVERPRESSURE AND GROUND VIBRATION OR AS REQUIRED.
6. THE CONTRACTOR SHALL IMPLEMENT ENGINEERING MEASURES IN ORDER TO MINIMIZE THE POTENTIAL IMPACTS OF DUST, NOISE AND GROUND VIBRATION. BLAST VIBRATION CONTROL WILL BE ACHIEVED BY LIMITING THE CHARGE PER DELAY SO THAT THE PEAK PARTICLE VELOCITY REMAINS BELOW THE SPECIFIED LEVELS.
7. AN APPROPRIATELY QUALIFIED, LICENSED BLASTING SPECIALIST, WITH EXPERIENCE SHALL BE ONSITE AND SUPERVISE BLASTING OPERATIONS. AT ALL TIMES, THE BLASTING AREA SHALL BE RESTRICTED TO BLASTING OPERATIONS AND AUTHORIZED PERSONNEL ONLY.
8. PROTECTIVE MEASURES INCLUDING INSTALLATION OF SIGNAGE, NOTIFICATION OF NEARBY RESIDENTS, TRAFFIC CONTROL AS NECESSARY ALONG NEARBY ROADS, AUDIBLE PRE-BLAST WARNINGS, AND USE OF BLAST MATS SHALL BE IMPLEMENTED.
9. DELIVERY AND TRANSPORT OF EXPLOSIVES FROM THE POWDER MAGAZINES TO THE BLAST AREA WILL BE BY VEHICLES SPECIFICALLY DESIGNED FOR THIS USE BY THE CRITERIA OUTLINED IN THE SAFETY REQUIREMENTS. ONLY AUTHORIZED PERSONS WILL TRANSPORT AND HANDLE THE EXPLOSIVES AS DESIGNATED BY THE ISSUING AUTHORITY OF THOSE LICENSES FOR THIS PURPOSE.
10. MONITORING OF PEAK PARTICLE VELOCITY (INCHES/SECOND) AND PEAK AIRBLAST OVERPRESSURE (PSI) SHALL BE PERFORMED DURING ALL BLASTS.

SPECIAL NOTES:

- 1. MAINTENANCE AND PROTECTION OF TRAFFIC IS THE RESPONSIBILITY OF THE PERMITEE. ANY SUBCONTRACTORS WORKING FOR THE PERMITEE MUST HAVE A COPY OF THE HIGHWAY WORK PERMIT ON THE SITE AND MUST BE FAMILIAR WITH THE TRAFFIC CONTROL REQUIREMENTS. IT IS STRONGLY ADVISED THAT A "TALGATE" SAFETY MEETING WITH EACH WORK CREW BE INITIATED BEFORE THE START OF WORK.
2. TRAFFIC CONTROL SCHEMES MUST BE IN PLACE, AND MAINTAINED, THROUGHOUT THE DURATION OF WORK.
3. ALL MAINTENANCE AND PROTECTION OF TRAFFIC TO BE IN ACCORDANCE WITH THE NATIONAL MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND THE NYS SUPPLEMENT.
4. ANYONE WORKING WITHIN THE HIGHWAY RIGHT-OF-WAY SHALL WEAR HIGH-VISIBILITY APPAREL MEETING THE ANSI 107-2004 CLASS II STANDARDS AND A HARD HAT.
5. AT THE START OF WORK ON THE PROJECT, ALL WORK ZONE TRAFFIC CONTROL DEVICES SHALL APPEAR IN "ACCEPTABLE" CONDITION. THESE DEVICES SHALL NOT BE ALLOWED TO FALL BELOW THE "MARGINAL" CONDITION AT ANY TIME DURING THE LIFE OF THE PROJECT. FADED AND DETERIORATED PANELS AND NON-STANDARD LEGENDS ARE NOT ACCEPTABLE.
6. FLAGGER SIGNS ARE TO BE USED ONLY WHEN A FLAGGER IS ACTUALLY PRESENT AND VISIBLE TO THE MOTORIST. THEY SHALL BE COVERED OR REMOVED AT ALL OTHER TIMES. STOP/SLOW PADDLES ARE REQUIRED.
7. NO LOW-MOUNTED SIGNS SHALL BE PERMITTED, EXCEPT FOR FLEXIBLE PANELS MEETING THE CURRENT SPECIFICATION REQUIREMENTS.

WINTER WORK:

SNOW PLOWING REQUIREMENTS:

- 1. DUE TO POSSIBLE SNOW FALL AND HENCE SNOW PLOWING OPERATIONS, ANY STEEL PLATES USED TO COVER AN EXCAVATION SHALL BE:
1. RECESSED INTO THE PAVEMENT AND PINNED.
OR
2. PINNED WITH ASPHALT RAMPS PLACED ALONG ALL EDGES. RAMPS SHALL BE SLOPED AT 1 INCH RISE PER 6 FEET RUN MAXIMUM. "RAISE PLOW" SIGNS SUPPLEMENTED WITH TYPE A FLASHING LIGHTS MUST BE ERECTED AN APPROPRIATE DISTANCE BEFORE THE EXCAVATION; SIGNS AND LIGHTS MUST MEET NYS DOT MUTCD SPECIFICATIONS.

WINTER TIME EARTHWORK REQUIREMENTS:

- ALL PERMIT WORK UNDER CONSTRUCTION BETWEEN THE DATES OF NOVEMBER 1 THROUGH MAY 1 SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:
1. GRANULAR OR OTHER FROST SUSCEPTIBLE MATERIAL SHALL NOT BE PLACED WHEN THE TEMPERATURE IS BELOW 32 DEGREES FAHRENHEIT.
2. FROZEN MATERIAL SHALL NOT BE INCORPORATED INTO EMBANKMENTS OR BACKFILLS.
3. MATERIAL SHALL NOT BE PLACED ON FROZEN GROUND.
4. THE MATERIAL SHALL BE COMPACTED IN ACCORDANCE WITH HIGHWAY DESIGN MANUAL CHAPTER 13 APPENDIX 13C REQUIREMENTS FOR NEW DESIGN AND CONSTRUCTION OF UNDERGROUND UTILITY INSTALLATIONS WITHIN THE STATE HIGHWAY RIGHT-OF-WAY. LATEST REVISION AND/OR 004-015 (ENGINEERING INSTRUCTION).
5. ANY SPECIAL CONDITIONS AND RESTRICTIONS AS MAY BE IMPOSED BY THE DESIGN ENGINEER OR THE VILLAGE ENGINEER.

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.

ARDEN CONSULTING ENGINEERS, PLLC
P.O. BOX 340 MONROE, N.Y.
TEL: (845) 782-8114
WWW.ARDENCONSULTING.NET
SITE PLAN PREPARED FOR
40 MANGIN ROAD
VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK
CONSTRUCTION SPECIFICATIONS
MICHAEL A. MORGANTHE, P.E.
LIC. NO. 78577

Table with 4 columns: REV., BY, DATE, DESCRIPTION. Row 1: 1, MM, 06-17-25, PER 05-29-2025 FES COMMENT LETTER. Row 2: THIS SHEET IS NOT VALID WITHOUT ALL OF THE SHEETS THAT COMPRISE THE SET. Footer: COPYRIGHT 2025, ARDEN CONSULTING ENGINEERS, P.L.L.C. - ALL RIGHTS RESERVED.