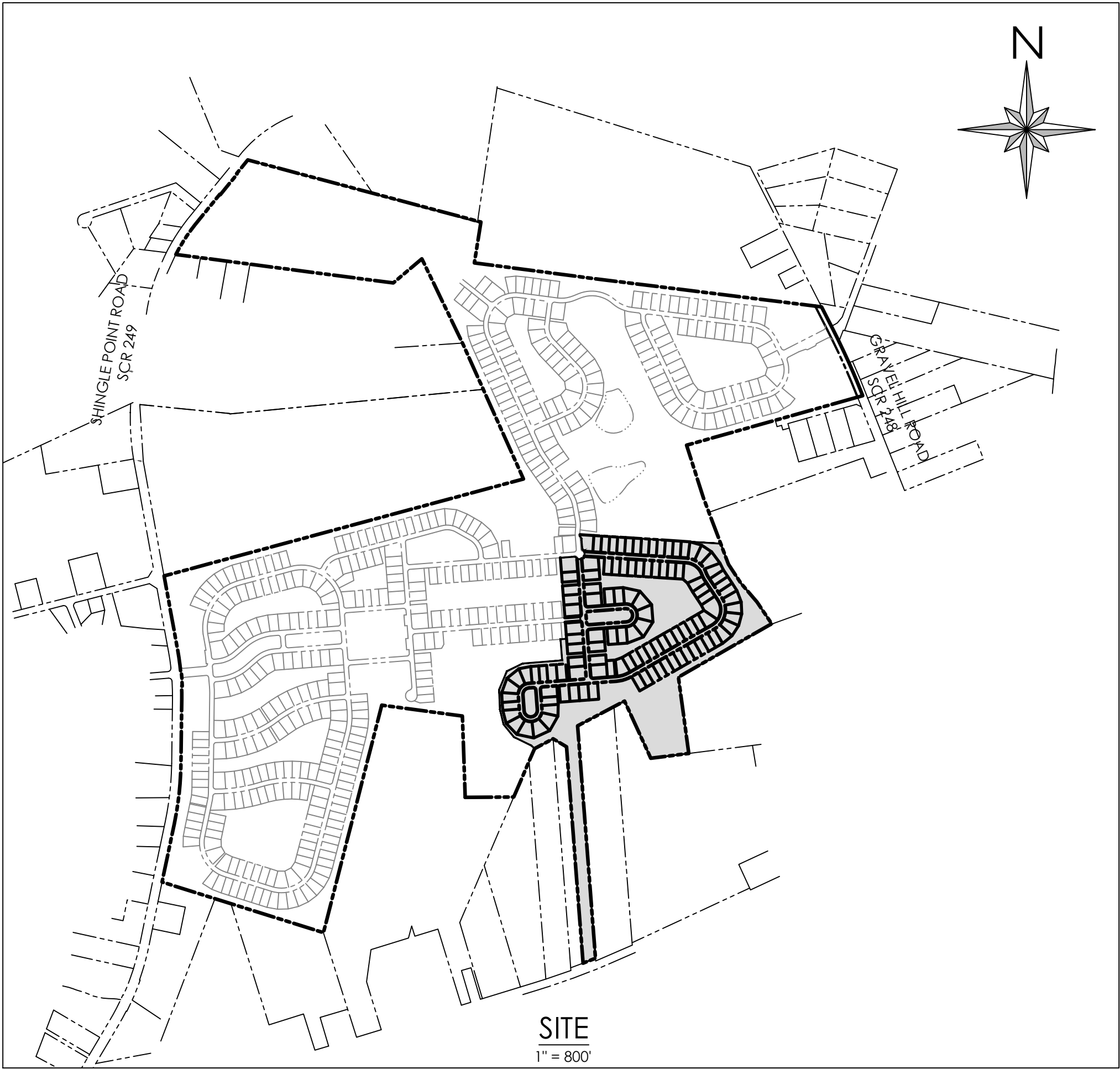


ROADWAY, STORM DRAIN, SEWER, WATER, & ESC PLANS

FOR
AZALEA WOODS - PHASE 8

SUSSEX COUNTY AGREEMENT # 1127-6
GEORGETOWN HUNDRED
SUSSEX COUNTY, DELAWARE
FOR
NATELLI COMMUNITIES



CONSTRUCTION PLANS

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16 - STORM DRAIN SCHEDULES	37 - WATER PLAN B	60 - POST CONSTRUCTION SWM PLAN - E.D. WET POND 10
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20 - DETAILED INTERSECTION GRADING	41 - ARTESIAN WATER NOTES AND DETAILS	64 - POND PLANTING-PLAN
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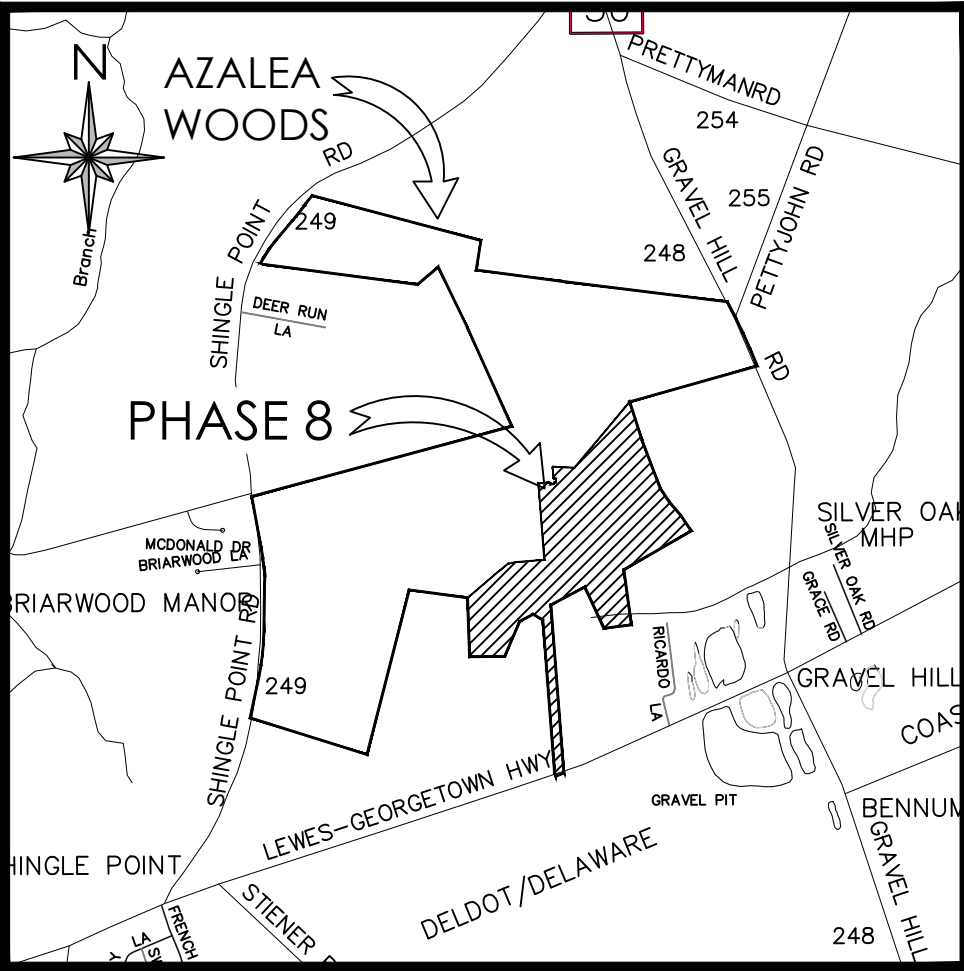
P.S. ELECTRICAL PLANS

- E-1 SITE PLAN & LEGEND
- E-2 S.E.C. DIAGRAM & DETAIL
- E-3 DETAILS, DIAGRAM & SCHEDULE

WETLANDS CERTIFICATION

I, JAMES McCULLEY, PWS, STATE THAT THE BOUNDARIES OF WATERS OF THE UNITED STATES INCLUDING WETLANDS SUBJECT TO THE CORPS OF ENGINEERS REGULATORY PROGRAM DELINEATED UPON THIS PLAN HAVE BEEN DETERMINED USING MY PROFESSIONAL JUDGEMENT IN ACCORDANCE WITH THE 1987 CORPS OF ENGINEERS WETLAND DELINEATION MANUAL, REGULATIONS AND SUPPLEMENT GUIDANCE (33CFR 328.3(a)(8), Water of the U.S. Definition/CECW-OR 10-7-1991. Questions and Answers on the 1987 COE Manual/CECW-OR, 9-26-1990, RGL 90-7/CECW-OR, 3-6-1992. Clarification and Interpretations of the 1987 Manual). THIS DELINEATION HAS NOT BEEN CONDUCTED FOR USDA PROGRAM OR AGRICULTURAL PURPOSES.

JAMES McCULLEY, PWS NO. 000471 DATE



VICINITY MAP

SCALE: 1" = 2,000'

SITE DATA

- OWNER: AZALEA WOODS, LLC
506 MAIN STREET
GAITHERSBURG, MD 20878
- DEVELOPER: NATELLI COMMUNITIES
506 MAIN STREET
GAITHERSBURG, MD 20878
CONTACT: RYAN MacPHEE
732-768-0324
- ENGINEER/SURVEYOR: SOLUTIONS IPEM, LLC
303 N. BEDFORD STREET
GEORGETOWN, DE 19947
CONTACT: JASON PALKEWICZ, PE
302.297.9215
- TAX MAP 135-11.00-49.00
- EXISTING ZONING AR-1 - AGRICULTURAL RESIDENTIAL
SETBACKS:
FRONT = 40'
SIDE = 15' (2 REQUIRED)
REAR = 20'
MAXIMUM BUILDING HEIGHT = 42'
C-1 - GENERAL COMMERCIAL
SETBACKS:
FRONT = 40'
SIDE = 10'
REAR = 10'
MAXIMUM BUILDING HEIGHT = 42'
- AZALEA WOODS AREA = 316.02 AC.±
PHASE 8 AREA = 62.04 AC.±
PHASE 8 LOTS = 114
- PROPERTIES ARE LOCATED IN FLOOD ZONE X (UNSHADED) - AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN PER FIRM MAP NUMBER 1000SC0325L, MAP REVISED JUNE 20, 2018.
- WATER SUPPLY: ARTESIAN WATER COMPANY, INC.
- SANITARY SEWER: ARTESIAN WASTEWATER MANAGEMENT, INC.
- TOPOGRAPHY AND BOUNDARY SHOWN HEREIN ARE AS PROVIDED BY SOLUTIONS IPEM LLC.

solutions
INCORPORATED
Professional Engineering & Surveying, LLC

303 North Bedford Street
Georgetown, DE 19947
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3003 Merritt Mill Road
Salisbury, MD 21804
T. 410.572.8853

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Professional Engineer
No. 2083
JASON PALKEWICZ, PE
DELAWARE

Seal

Date

REVISIONS		DESCRIPTION
NO.	DATE	
1	2/20/26	REVISIONS PER SCD COMMENTS
2	4/14/26	REVISIONS PER SCE & ARTESIAN COMMENTS
3	4/27/26	REVISIONS PER SCD COMMENTS
4	7/16/26	REVISIONS PER DNREC TAX DITCH COMMENTS

COVER SHEET

for
AZALEA WOODS - PHASE 8
SUSSEX COUNTY, DELAWARE
Prepared for: NATELLI COMMUNITIES

ENGINEER'S CERTIFICATION	
I HEREBY CERTIFY THAT THESE DRAWINGS HAVE BEEN PREPARED UNDER MY SUPERVISION.	
JASON PALKEWICZ, PE	DATE
DEVELOPER'S CERTIFICATION	
THE DEVELOPER, NATELLI COMMUNITIES, HEREBY CERTIFIES THAT THESE DRAWINGS HAVE BEEN APPROVED.	
RYAN MacPHEE	DATE
APPROVED	AGREEMENT # 1127-6
SUSSEX COUNTY ENGINEER	DATE

Date:	07/19/25
Job Number:	18003
Scale:	1"=200'
Drawn By:	ML
Designed By:	JHB
Approved By:	JP
Sheet No.:	1
File Name:	g18003-cover

PLANNING & ZONING COMMISSION

ROBERT C. WHEATLEY, CHAIRMAN
KIM HOEY STEVENSON, VICE-CHAIRMAN
R. KELLER HOPKINS
J. BRUCE MEARS
HOLLY J. WINGATE



Sussex County

DELAWARE
SUSSEXCOUNTYDE.GOV
302-855-7878 T
302-854-5079 F
JANELLE CORNWELL, AICP
DIRECTOR

December 31, 2019

Mr. Jason Palkewicz, P.E.
Solutions IPEM, LLC
303 North Bedford Street
Georgetown, DE, 19947

By email to: jpalkewicz@solutionsipem.com

RE: Notice of Decision Letter for the Preliminary Subdivision Plan for Azalea Woods (2019-8) for the creation of a major cluster subdivision to include 610 single-family lots on a total of 316.02 acres of land and located between Shingle Point Road (S.C.R. 249) and Gravel Hill Road (S.C.R. 248) north of Route 9.
Tax Parcels: 135-11.00-32.04, a portion of 48.00, 49.00 & 56.00

Dear Mr. Palkewicz,

At their meeting of **Thursday, December 19, 2019** the Planning & Zoning Commission **approved** the **Preliminary Subdivision Plan for Azalea Woods (2019-8)** for the creation of a standard subdivision to include 610 single-family lots on a total of 316.02 acres of land and located between Shingle Point Road (S.C.R. 249) and Gravel Hill Road (S.C.R. 248) north of Route 9. The parcels are zoned Agricultural Residential (AR-1) with a small portion of parcel 32.04 being zoned General Commercial (C-1).

The Preliminary Subdivision Plan is valid for three (3) years from the date of Planning Commission decision. A Final Subdivision Plan shall be approved within three (3) years of the date of approval of the Preliminary Plan or the action of the Planning Commission shall be deemed canceled. Unless an extension is granted, approval shall be rendered null and void if substantial construction is not commenced within five (5) years of the date of recordation of the final plat.

As part of their motion, the Planning Commission acted to approve the development subject to the following conditions (which shall be clearly annotated on the Revised Preliminary and Final Subdivision Plans):

- There shall be no more than 610 lots within the subdivision.
- The Final Site Plan shall confirm that at least 51% of the site remains as open space.
- So that road construction proceeds reasonably on pace with road improvements, there shall be no more than 70 building permits issued in any one calendar year.
- The developers shall establish a homeowner's association responsible for the maintenance of streets, roads, buffers, stormwater management facilities and other common areas.



COUNTY ADMINISTRATIVE OFFICES
2 THE CIRCLE | PO BOX 417
GEORGETOWN, DELAWARE 19947

Notice of Decision Letter
Azalea Woods (2019-8) – Preliminary Subdivision Plan
December 31, 2019
Page 3

The Final Subdivision Plan must comply with the County's Subdivision Code, including submission of agency approval letters to the Planning and Zoning Office. The agency approvals required for Final Subdivision Plan approval include but are not limited to: the Sussex Conservation District, Office of the State Fire Marshal, Sussex County Engineering Department, Sussex County Mapping and Addressing Department, Office of Drinking Water (Public Health) and the Delaware Department of Transportation (DelDOT).

Once all agency approvals have been obtained, please submit a minimum of **one (1) full-size (24 "x36")** and **one (1) electronic PDF copy** of a Final Site Plan to the Planning and Zoning Office for consideration on the next agenda for Planning Commission. It is recommended that **two (2) copies** of a check print are first submitted to staff for review.

Please note that a \$10.00 per lot fee will be required to be paid prior to the approval of any Final Subdivision Plan. For 610 lots, the fee is \$6,100.00.

Please feel free to contact me during business hours with any question from 8:30 AM – 4:30 PM, Monday through Friday, at 302-855-7878.

Sincerely,

Ms. Lauren DeVore
Planner III

Notice of Decision Letter
Azalea Woods (2019-8) – Preliminary Subdivision Plan
December 31, 2019
Page 2

- The stormwater management system shall meet or exceed the requirements of the State and County. The Final Site Plan shall contain the approval of the Sussex Conservation District for the design and location of all stormwater management areas and erosion and sedimentation control facilities.
- As stated by the applicant, there shall be a forested or landscaped buffer of at least 30 feet in depth along the entire perimeter of the project. This may include existing forest. The Final Site Plan shall contain a landscape plan for all these areas. In addition to the forested or landscape buffer all lots shall be at least 50 feet from the perimeter boundary of the development.
- There were concerns expressed during the hearings about marking the common boundaries of this development and adjacent properties, particularly in the wooded areas where the boundary line may not be evident. The developer shall post permanent markers along the boundary within the forested areas that are being maintained in the development so that residents of the development are deterred from trespassing on adjacent properties. The location and type of these markers shall be shown on the Final Site Plan.
- As stated by the applicant, there shall be a buffer of at least 50 feet from all wetlands. The existing forest within these buffer areas shall be maintained and it shall be located on the landscape plan.
- The development shall comply with all DelDOT entrance and roadway improvement requirements.
- As proffered by the applicant, sidewalks shall be installed on both sides of all internal streets. A system of fully-shielded and downward-screened street lighting shall also be provided.
- The subdivision shall be served by a central sewer system.
- The subdivision shall be served by a publicly-regulated central water system providing drinking water and fire protection.
- Street design shall meet or exceed Sussex County standards.
- Road naming and addressing shall be subject to the review and approval of the Sussex County Mapping and Addressing Department.
- Construction site work and deliveries shall occur on the site between the hours of 8AM-7PM, Monday through Friday and 8AM-2PM on Saturdays.
- The applicant shall coordinate with the local school district regarding the location of a covered school bus stop within the subdivision. If required by the school district, the location of the bus stop area shall be shown on the Final Site Plan.
- The development shall be served by its own on-site amenities including a pool, clubhouse, pickleball courts, gathering areas and tot lots.
- All amenities shall be completed and open for use prior to the issuance of the 250th residential building permit.
- The Final Site Plan shall depict all forested areas that will be preserved in addition to the forested areas and the buffers.
- A Revised Preliminary Site Plan, either depicting or noting these Conditions must be submitted to the Office of Planning and Zoning.
- The Final Site Plan shall be subject to the review and approval of the Planning and Zoning Commission.

January 23, 2020

Mr. Jason Palkewicz, P.E.
Solutions IPEM, LLC
303 North Bedford Street
Georgetown, DE, 19947

By email to: jpalkewicz@solutionsipem.com

Re: Notice of Decision Letter for the Request to Revise Condition "C" of the Conditions of Approval for Azalea Woods (2019-08)
Tax Parcel: 135-11.00-32.04, a portion of 48.00, 49.00 & 56.00

Dear Mr. Palkewicz,

At their meeting on **Thursday, January 9, 2020** the Planning & Zoning Commission **approved** the **Request to Revise Condition "C" of the Conditions of Approval** for Azalea Woods (2019-08).

The amended language for Condition "C" shall now read, "So that home construction proceeds reasonably on pace with road improvements, the developer shall comply with the phasing set forth in Conditions #1 and #6 of DelDOT's November 21, 2019 TIS review letter. Any changes to those phasing requirements shall require an amendment to this Condition of approval."

Please feel free to contact me during business hours 8:30am – 4:30pm Monday through Friday at 302-855-7878.

Sincerely,

Ms. Lauren DeVore
Planner III

CC. Andy Wright, Building Code,
Mike Brady, Director of Public Works – Engineering
John Ashman, Director of Utility Planning - Engineering



COUNTY ADMINISTRATIVE OFFICES
2 THE CIRCLE | PO BOX 417
GEORGETOWN, DELAWARE 19947

SUSSEX COUNTY ENGINEERING
CONSTRUCTION NOTES

- ROADWAY STAKEOUTS:
A. RIGHT-OF-WAY STAKES SHALL BE OFF-SET A MINIMUM OF FIVE (5) FEET OUTSIDE THE RIGHT-OF-WAY.
B. STATION NUMBERS SHALL BE INDICATED ON EACH SIDE OF THE STAKE.
C. THE CENTERLINE ROADWAY CUT AND CUT-LINE SHALL BE LOCATED ON THE SIDE OF THE STAKE WHICH FACES THE CENTERLINE. ALSO, A "CL" DESIGNATION SHALL BE INCLUDED.
D. THE SWALE CUT AND CUT-LINE SHALL BE INDICATED ON THE OUTSIDE OF THE STAKE, WHILE ALSO CONTAINING A "SW" DESIGNATION.
- THE CONTRACTOR SHALL PROVIDE TWO (2) WORKING DAYS NOTICE TO THE COUNTY INSPECTOR PRIOR TO PAVING. AT THIS TIME, THE INSPECTOR MAY REQUIRE THAT THE CONTRACTOR COMPLETE RELATED OR UNRELATED WORK ITEMS BEFORE PAVING MAY BEGIN.
- SURFACE TREATMENT SHALL NOT BE APPLIED:
A. AFTER NOVEMBER 1 OR PRIOR TO APRIL 1; OR
B. WHEN THE TEMPERATURE IS BELOW 50° F; OR
C. ON ANY WET OR FROZEN SURFACE.
- HOT MIX SHALL NOT BE APPLIED:
A. WHEN THE TEMPERATURE IS BELOW 40° F; OR
B. ON ANY WET OR FROZEN SURFACE.
- FOR ALL WOODED AREAS, A SUFFICIENT AREA BEYOND THE RIGHT-OF-WAY LINE SHALL BE CLEARED AND GRUBBED TO ALLOW PROPER GRADING OF THE ROADWAY SWALE BACKSLOPES.
- ALL DISTURBED AREAS MUST BE STABILIZED WITH 4 INCHES OF TOPSOIL, SEED, AND MULCH.
- ALL CURB RETURN RADII ARE TO THE EDGE OF PAVEMENT.
- CONSTRUCTION SITE WORK AND DELIVERIES SHALL OCCUR ON THE SITE BETWEEN THE HOURS OF 8AM-7PM, MONDAY THROUGH FRIDAY AND 8AM -2PM ON SATURDAYS

GENERAL NOTES:

- ALL ON-SITE STREETS ARE PRIVATE AND SHALL BE MAINTAINED BY THE OWNER UNTIL DEDICATION TO THE HOMEOWNERS ASSOCIATION. THE PERPETUAL MAINTENANCE OF THE STREETS SHALL BE BY THE RESPECTIVE ORGANIZATION.
- STORMWATER MANAGEMENT AND STORM DRAINAGE SHALL BE IN ACCORDANCE WITH THE SUSSEX COUNTY CONSERVATION DISTRICT AND SUSSEX COUNTY ENGINEERING REQUIREMENTS. THE SITE IS TO BE TREATED BY MULTIPLE WET PONDS. MAINTENANCE OF THE ON-SITE STORMWATER MANAGEMENT FACILITIES AND STORM DRAINAGE SYSTEM SHALL BE BY THE OWNER UNTIL DEDICATION TO THE HOMEOWNERS ASSOCIATION. THE PERPETUAL MAINTENANCE OF THE ABOVE PROACTIVE SHALL BE BY THE RESPECTIVE ORGANIZATION.
- ALL FIRE LANES, FIRE HYDRANTS, MARKINGS SHALL BE IN ACCORDANCE WITH THE DELAWARE STATE FIRE MARSHAL REGULATIONS.
- THE DEVELOPER SHALL MAKE EVERY EFFORT TO PRESERVE ALL TREES EXCEPT WHERE NECESSARY TO CONSTRUCT ROADWAYS, UTILITIES AND BUILDINGS.
- ALL SIDEWALKS, WHEN REQUIRED, AND/OR ARE SHOWN ON THE PLAN MUST BE INSTALLED PER THE APPROVED PLAN IN CONJUNCTION WITH THE PRIVATE STREET.
- ALL OPEN SPACE SHALL BE MAINTAINED BY THE HOMEOWNERS ASSOCIATION.
- ARTESIAN WATER COMPANY, INC AND ARTESIAN WASTEWATER MANAGEMENT INC. ARE HEREBY GRANTED AN UNINTERRUPTED AND PERPETUAL EASEMENT WITHIN THE PRIVATE COMMUNITY STREET RIGHT-OF-WAY AND OPEN SPACE.

UTILITY NOTES

- THE CONTRACTOR SHALL VERIFY EXISTING INVERTS PRIOR TO CONSTRUCTION OF UNDERGROUND UTILITIES. TEST PITTING OF EXISTING LINES PRIOR TO CONSTRUCTION. IF NECESSARY, SHALL BE COORDINATED WITH THE OWNER.
- CONTRACTOR SHALL PROVIDE 12" MIN. COVER OVER STORM DRAIN PIPES DURING CONSTRUCTION. AT ALL TIMES, PROPER COVER TO BE PROVIDED OVER ALL UTILITIES (48" OVER WATER, 48" OVER SANITARY SEWER, 12" OVER STORMWATER, OR PER MANUFACTURERS RECOMMENDATIONS) UPON COMPLETION.
- ALL MANHOLE FRAMES & COVERS AND CLEANOUTS SHALL BE ADJUSTED TO BE FLUSH WITH FINAL GRADE.

CONSTRUCTION NOTES

- THESE DRAWINGS SHOW INFORMATION OBTAINED FROM THE AVAILABLE RECORDS REGARDING PIPES, CONDUITS, TELEPHONE LINES, AND OTHER STRUCTURES AND CONDITIONS WHICH EXIST ALONG THE LINES OF WORK AT AND BELOW THE SURFACE OF THE GROUND. THE OWNER AND ENGINEER DISCLAIM ANY RESPONSIBILITIES FOR THE ACCURACY OR COMPLETENESS OF SAID INFORMATION BEING SHOWN ONLY FOR THE CONVENIENCE OF THE CONTRACTOR WHO MUST VERIFY THE INFORMATION TO HIS OWN SATISFACTION. IF THE CONTRACTOR RELIES ON SAID INFORMATION, HE DOES SO AT HIS OWN RISK. THE GIVING OF THE INFORMATION ON THE DRAWINGS DOES NOT RELIEVE THE CONTRACTOR OF HIS OBLIGATIONS TO IDENTIFY, SUPPORT, AND PROTECT ALL PIPES, CONDUITS, TELEPHONE LINES, AND OTHER STRUCTURES.
- ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL CONFORM TO THE DRAWINGS, LOCAL BUILDING CODES, AND THE STANDARD SPECIFICATIONS. MATERIALS AND METHODS OF CONSTRUCTION FOR WATER MAINS AND APPURTENANCES SHALL CONFORM TO ARTESIAN WATER & WASTEWATER COMPANY STANDARDS.
- ALL DISTURBED AREAS SHALL BE SMOOTHLY GRADED TO PROMOTE POSITIVE DRAINAGE AND STABILIZED WITH TOPSOIL, SEED, AND MULCH. IF SETTLEMENT OCCURS, TOPSOIL, SEEDING, AND MULCH SHALL BE REPEATED UNTIL SETTLEMENT SUBSIDES. (SEE EROSION AND SEDIMENT CONTROL DETAILS AND SPECIFICATIONS.)
- THE CONTRACTOR SHALL NOTIFY THE FOLLOWING TWO (2) WEEKS PRIOR TO THE START OF CONSTRUCTION AND SHALL COORDINATE ALL CONSTRUCTION PHASES WITH THEM:
SOLUTIONS IPEM 302-297-9215
MISS UTILITIES 800-262-8555
DELDOT 302-856-5441
SUSSEX CONSERVATION DISTRICT 302-856-2105
SUSSEX COUNTY DPW 302-855-7703
ARTESIAN WATER & WASTEWATER COMPANY, 302-218-2023

SHOULD ANY DAMAGE OCCUR TO EXISTING UTILITIES, IT SHALL BE REPAIRED SOLELY AT THE CONTRACTOR'S EXPENSE.

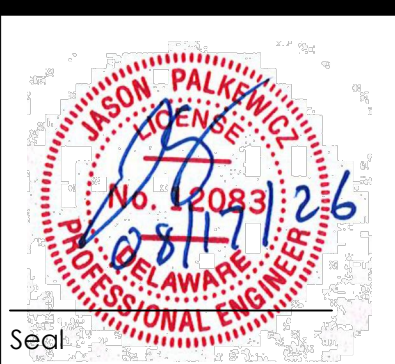
- CONTRACTOR SHALL CONTACT DELMARVA POWER AT 1-800-375-7117 PRIOR TO COMMENCING WORK WITHIN THE PROXIMITY OF OVERHEAD HIGH-VOLTAGE POWER LINES.
- ALL DRAINAGE STRUCTURES AND TRENCHES SHALL REMAIN FUNCTIONAL DURING CONSTRUCTION.
- THE OWNER IS RESPONSIBLE FOR THE ACQUISITION OF ALL EASEMENTS, BOTH TEMPORARY AND PERMANENT.
- TRENCHES SHALL NOT REMAIN OPEN OVERNIGHT. IF IT IS NECESSARY FOR TRENCHES TO REMAIN OPEN, STEEL PLATES CAPABLE OF BEARING TRAFFIC SHALL BE USED TO COMPLETELY COVER THE TRENCH OPENINGS.
- THE CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR ANY DEVIATION FROM THESE PLANS.
- ANY PROPERTY LINE MONUMENTATION DISTURBED DURING CONSTRUCTION SHALL BE REPLACED SOLELY AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL SURVEY CONTROL PRIOR TO STAKING OUT FOR CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO PROCEEDING WITH WORK.
- ALL PIPE LENGTHS ARE THE ACTUAL PIPE LENGTHS, NOT INCLUDING FLARED END SECTIONS. ALL PIPES SHALL HAVE FLARED END SECTIONS, UNLESS OTHERWISE NOTED.
- SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES.
- CONTRACTOR SHALL PROVIDE 12" MIN. COVER OVER PIPES DURING CONSTRUCTION.
- UTILITY GROUND SURFACE PROFILES, MANHOLE TOP ELEVATIONS, AND CROSSING PIPE ELEVATIONS ARE APPROXIMATE. REFER TO GRADING PLANS FOR GROUND SURFACE ELEVATIONS. INSTALL MANHOLE TOPS FLUSH WITH FINAL GRADE.
- STORM SEWER PIPING AND CULVERTS SHALL BE CLASS IV REINFORCED CONCRETE OR HIGH-DENSITY POLYETHYLENE (HDPE) ADS N-12 AS INDICATED ON THE PLANS AND PROFILES, AND PER SUSSEX COUNTY SPECIFICATIONS.
- STORM SEWER MANHOLES SHALL BE PRECAST CONCRETE WITH MINIMUM DIAMETER OF 48", BUT LARGER DIAMETER IF NEEDED TO ACCOMMODATE PIPES ENTERING AND EXISTING THE MANHOLE.
- WHEN IT IS IMPOSSIBLE TO OBTAIN THE MINIMAL 10 FOOT HORIZONTAL AND/OR 18" VERTICAL SEPARATION BETWEEN WATER MAINS AND SANITARY SEWER, THE OFFICE OF DRINKING WATER MUST SPECIFICALLY APPROVE ANY VARIANCE SUPPORTED BY DATA FROM THE DESIGN ENGINEER.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE OWNER/ENGINEER IN A TIMELY MANNER IF ANY DISCREPANCIES ARE FOUND.

solutions

Engineering & Construction
Professional Corporation, LLC

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T. 302.297.9215
3003 Merrill Mill Road
Salisbury, MD 21804
F. 410.572.8853

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Seal

Date

REVISONS		NO.	DATE	DESCRIPTION
	REVISIONS PER SCD COMMENTS	1	2/20/26	
	REVISIONS PER SCE & ARTESIAN COMMENTS	2	4/14/26	
	REVISIONS PER SCD COMMENTS	3	4/27/26	
	REVISIONS PER DNREC TAX DITCH COMMENTS	4	7/16/26	

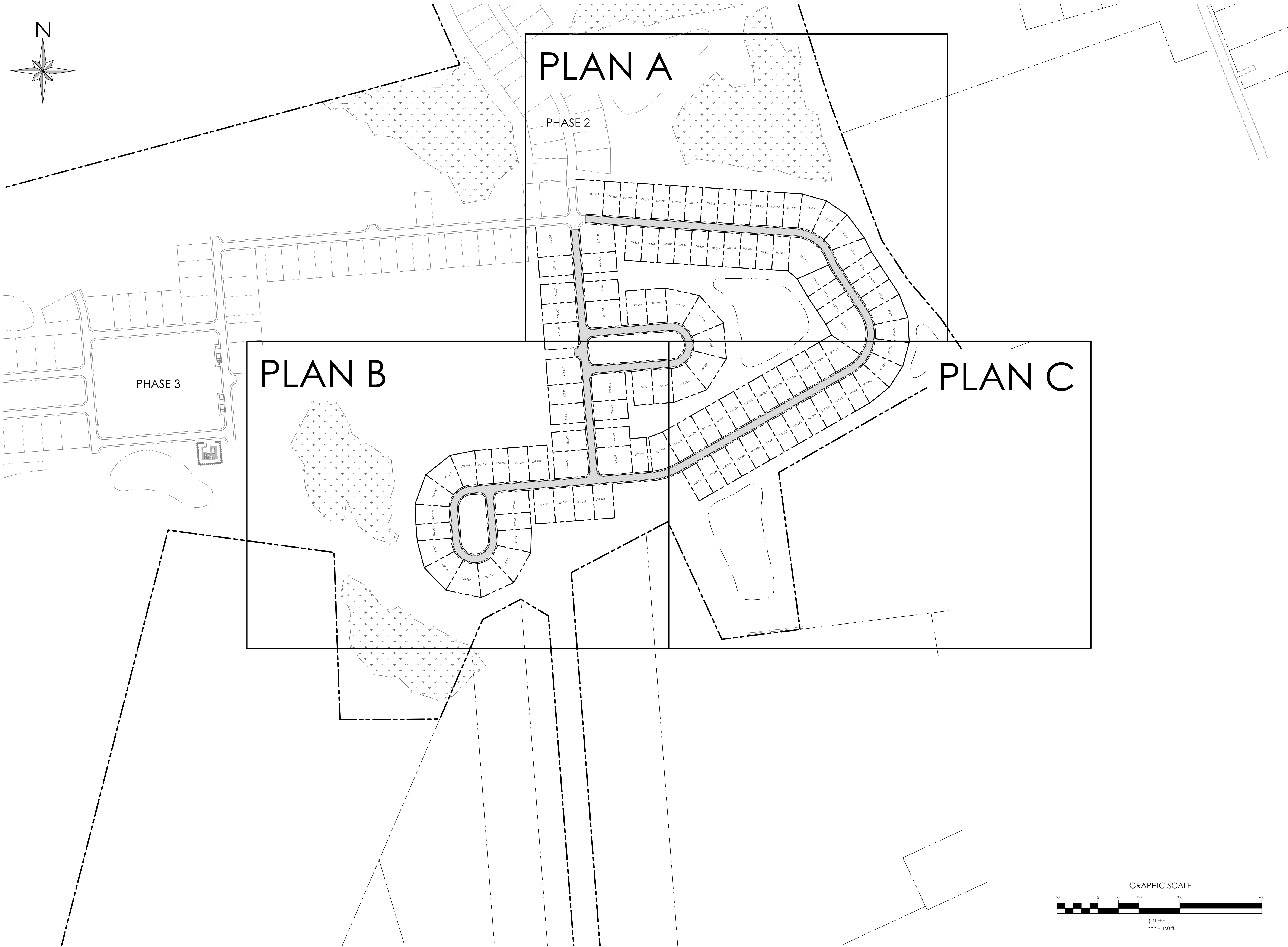
NOTES	
for	
AZALEA WOODS - PHASE 8	
SUSSEX COUNTY, DELAWARE	
Prepared for: NATELLI COMMUNITIES	

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Scale:	NONE
Drawn By:	ML
Designed By:	IHB
Approved By:	JP

Sheet No.:

2

File Name: g18003-cover



303 North Bedford Street
Georgetown, DE 19947
T. 302.297.9215

3003 Merritt Mill Road
Salisbury, MD 21804

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REVISIONS		
NO.	DATE	DESCRIPTION
1	2/20/26	REVISIONS PER SCD COMMENTS
2	4/14/26	REVISIONS PER SCE & ARTESIAN COMMENTS
3	4/27/26	REVISIONS PER SCD COMMENTS
4	7/14/26	REVISIONS PER DNREC TAX DITCH COMMENTS

INDEX PLAN

for

AZALEA WOODS - PHASE 8

SUSSEX COUNTY, DELAWARE

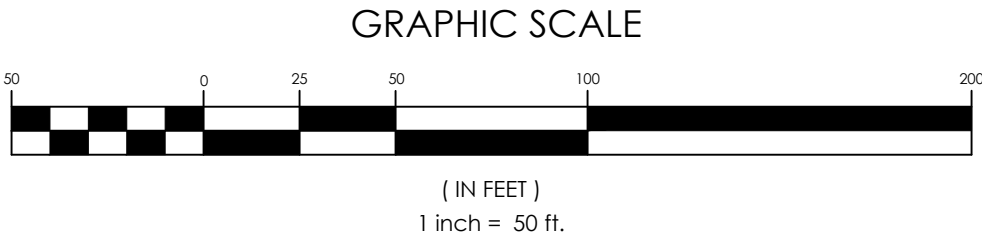
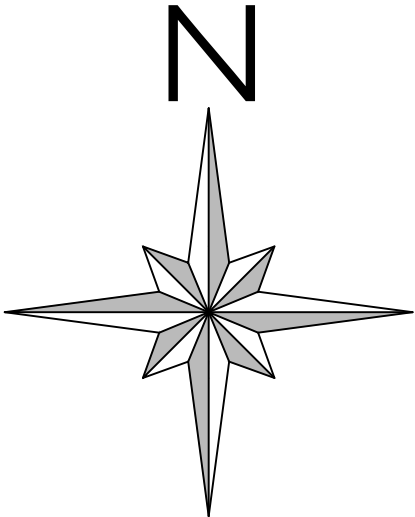
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Designed By:	DP
Approved By:	JP

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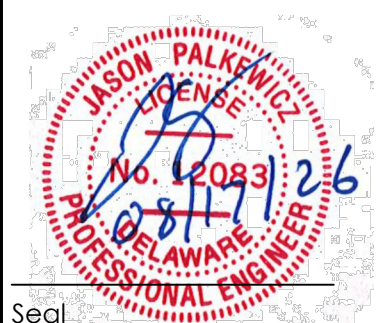


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 Building a Better World

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 Salisbury, MD 21804
 T. 410.572.8833

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REVISIONS		DESCRIPTION
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1	2/20/26	REVISIONS PER SCD COMMENTS
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3	4/27/26	REVISIONS PER SCD COMMENTS
4	7/16/26	REVISIONS PER DNREC TAX DITCH COMMENTS

SANITARY SEWER PLAN A

for

AZALEA WOODS - PHASE 8

SUSSEX COUNTY, DELAWARE

Prepared for: NATELLI COMMUNITIES

Date:	07/19/25
Job Number:	18003
Scale:	1"=50'
Drawn By:	ML
Designed By:	DP
Approved By:	JIP

Sheet No.:

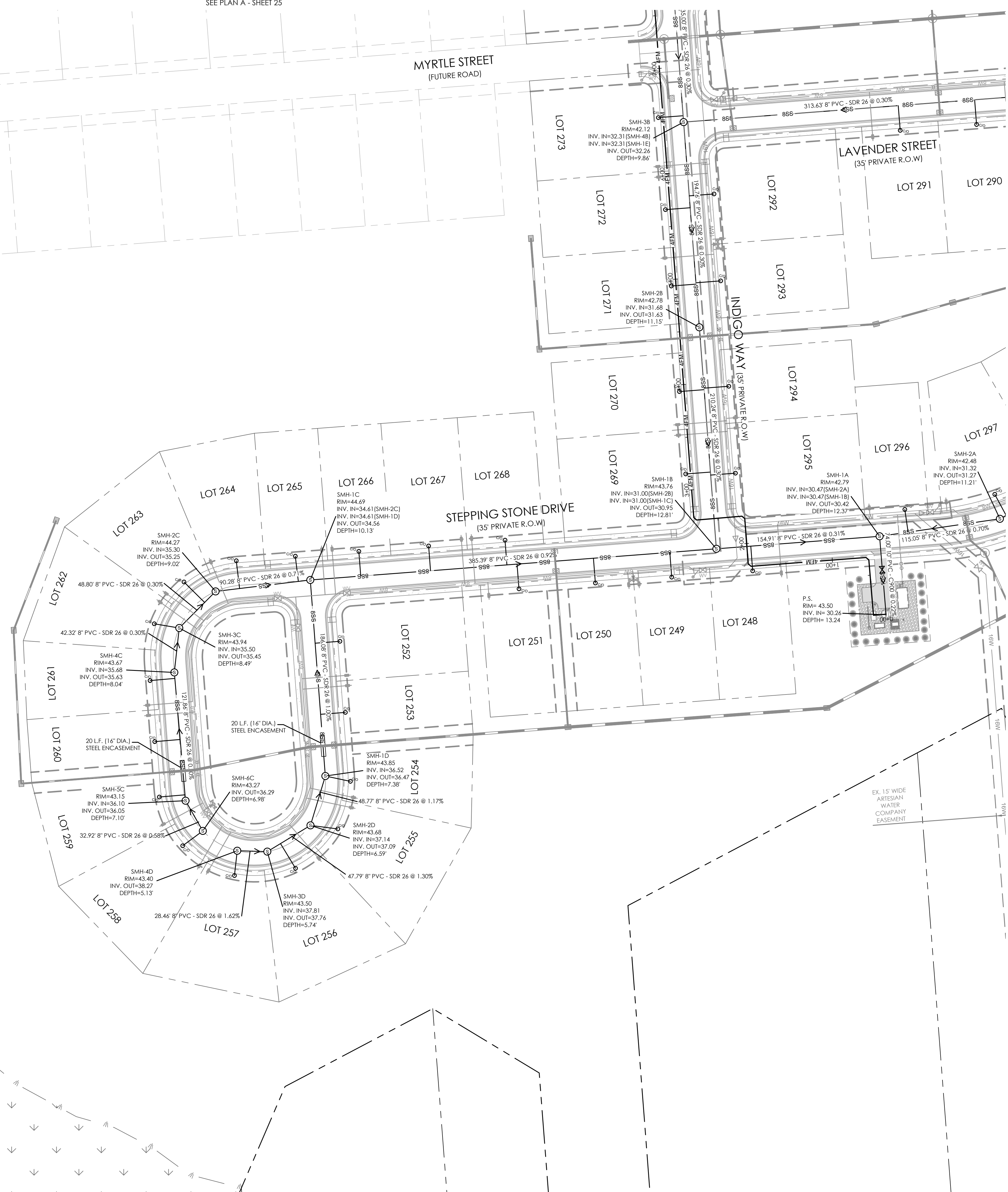
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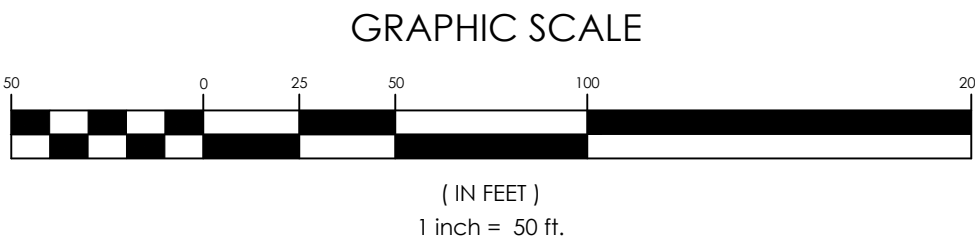
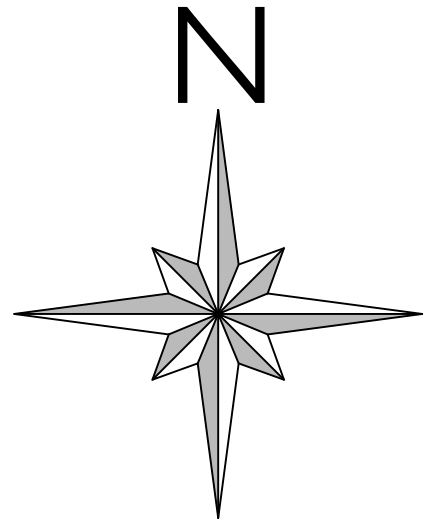
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SEWER

SEE PLAN B - SHEET 26

SEE PLAN B - SHEET 26





REVISIONS	
NO.	DATE
1	2/20/26
2	4/14/26
3	4/27/26
4	7/16/26

DESCRIPTION
REVISIONS PER SCD COMMENTS
REVISIONS PER SCE & ARTESIAN COMMENTS
REVISIONS PER SCD COMMENTS
REVISIONS PER DNREC TAX DITCH COMMENTS

SANITARY SEWER PLAN C
for
AZALEA WOODS - PHASE 8
SUSSEX COUNTY, DELAWARE
Prepared for: NATELLI COMMUNITIES

Date:	07/19/25
Job Number:	18003
Scale:	1"=50'
Drawn By:	NML
Designed By:	DP
Approved By:	JJP

Sheet No.: 27
File Name: G18003-sewer-P8.dwg

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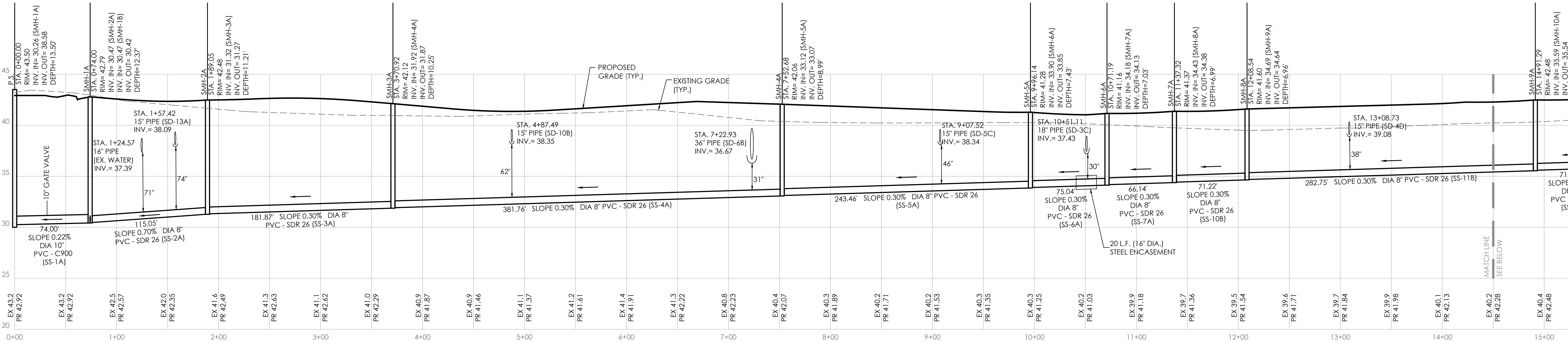
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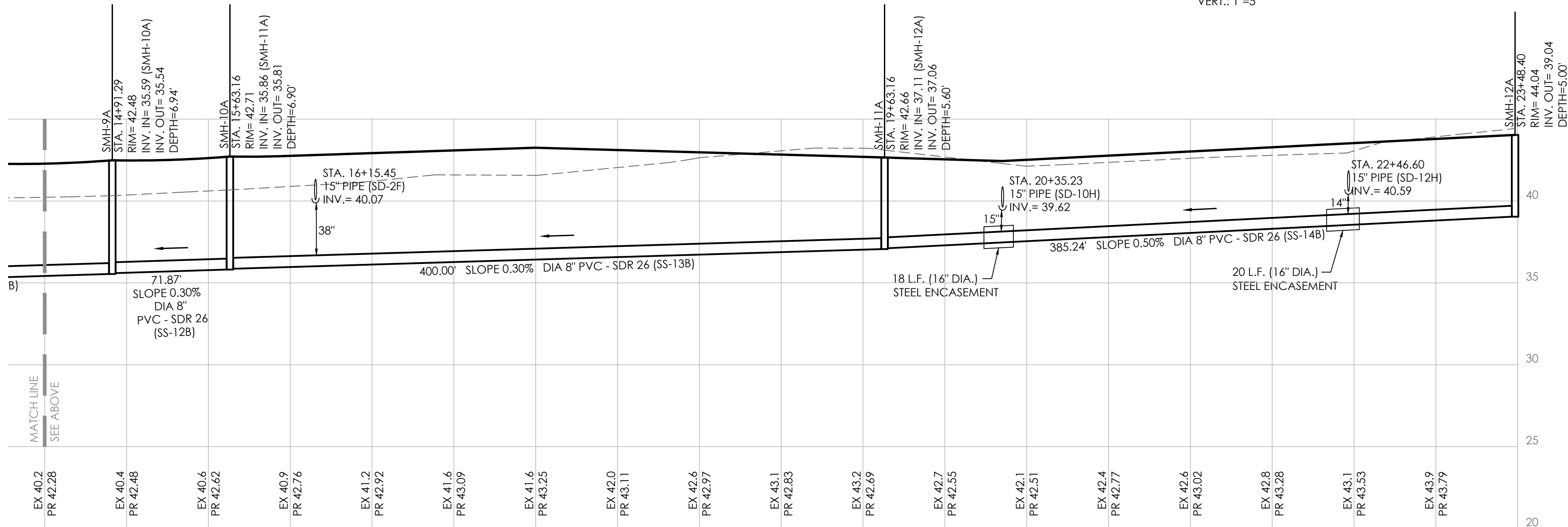
Date

Professional Engineer
No. 12083
JASON FALKENBERG
DELAWARE



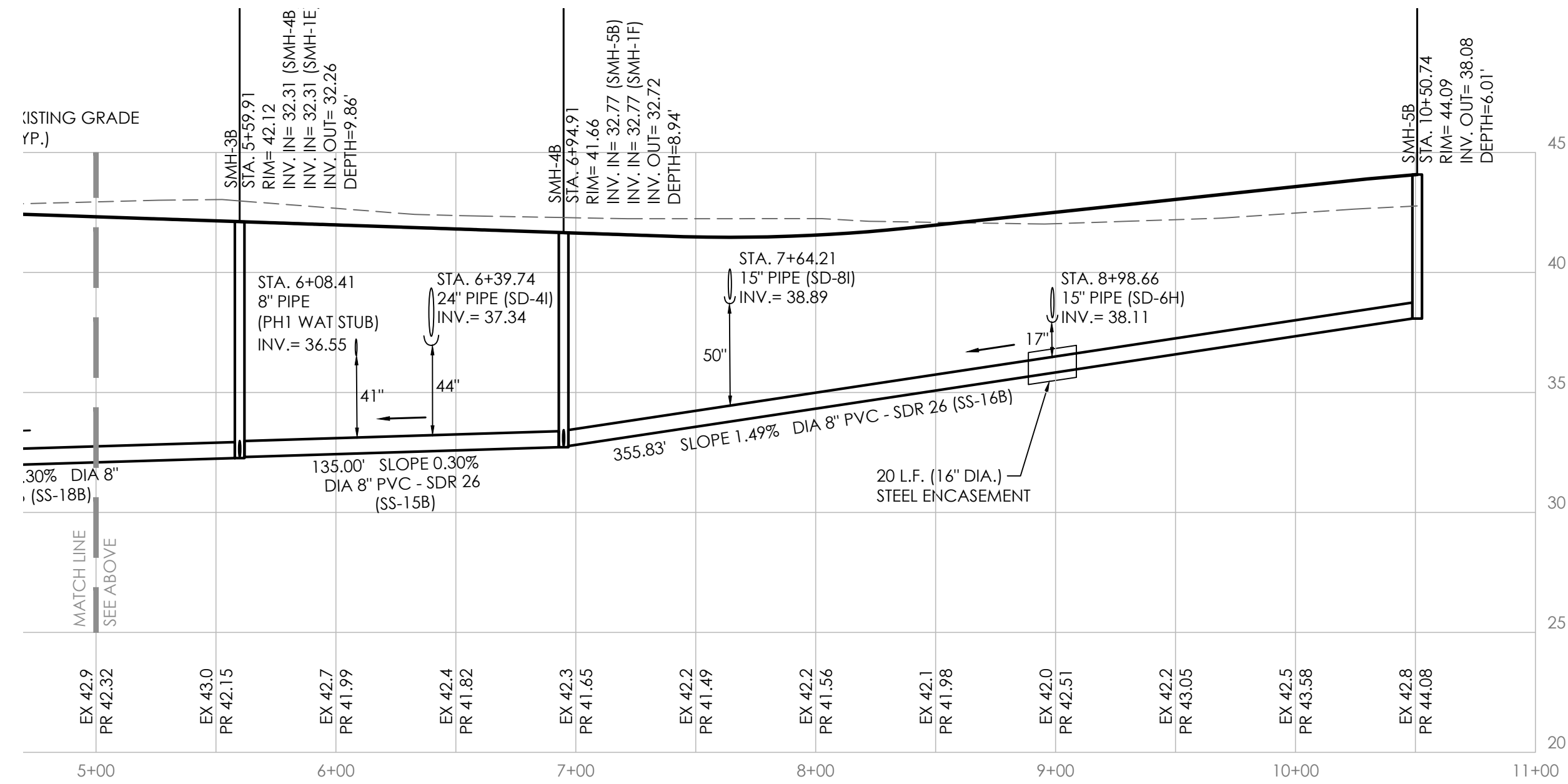
PUMP STATION TO SMH-12A

SCALE: HORIZ.: 1"=50'
VERT.: 1"=5'



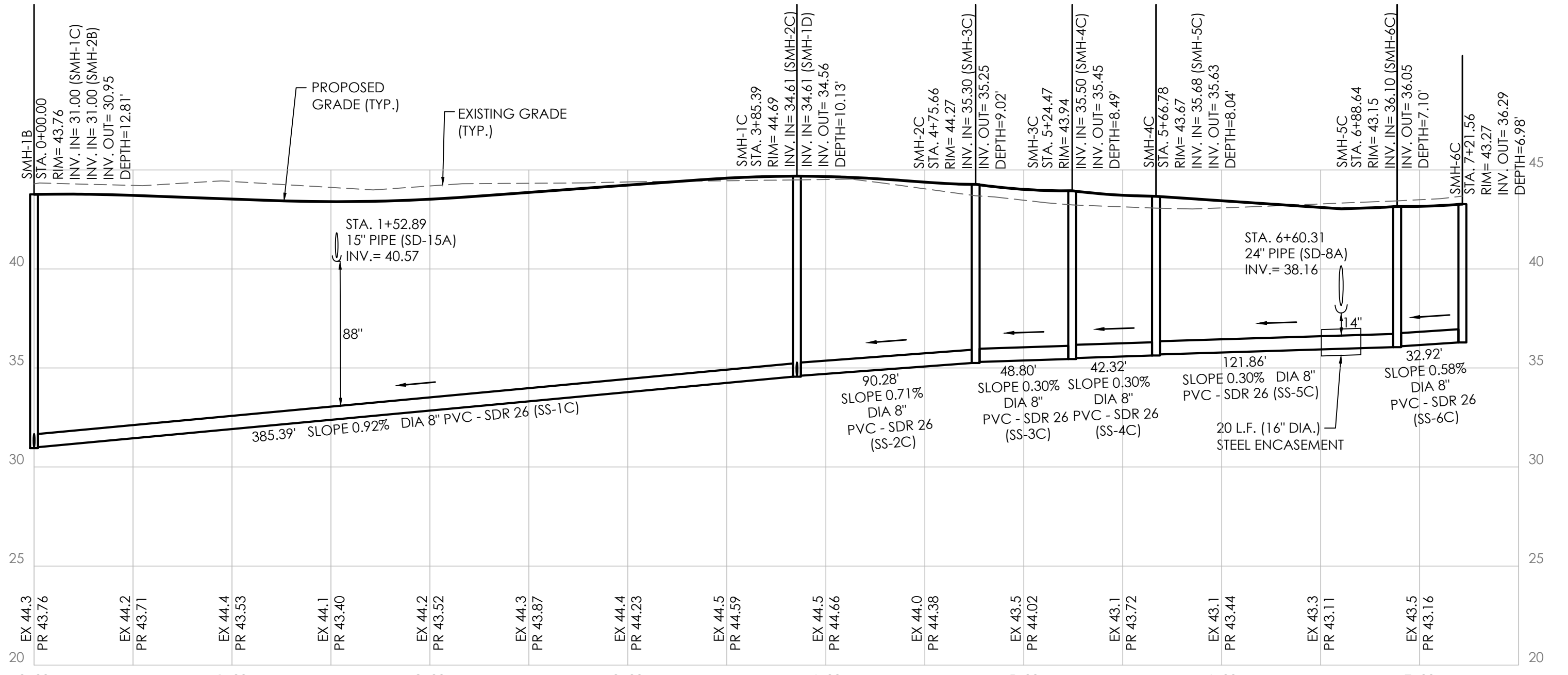
PUMP STATION TO SMH-12A (CONT.)

SCALE: HORIZ.: 1"=50'
VERT.: 1"=5'



SMH-1A TO SMH-5B (CONT.)

SCALE: HORIZ.: 1"=50'
VERT.: 1"=5'

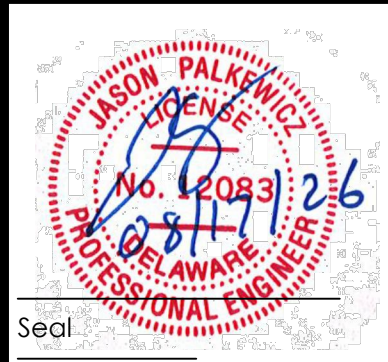


SMH-1B TO SMH-4C

SCALE: HORIZ.: 1"=50'
VERT.: 1"=5'

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NO.	DATE	
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2	4/14/26	REVISIONS PER SCE & ARTESIAN COMMENTS
3	4/27/26	REVISIONS PER SCD COMMENTS
4	7/16/26	REVISIONS PER DNREC TAX DITCH COMMENTS

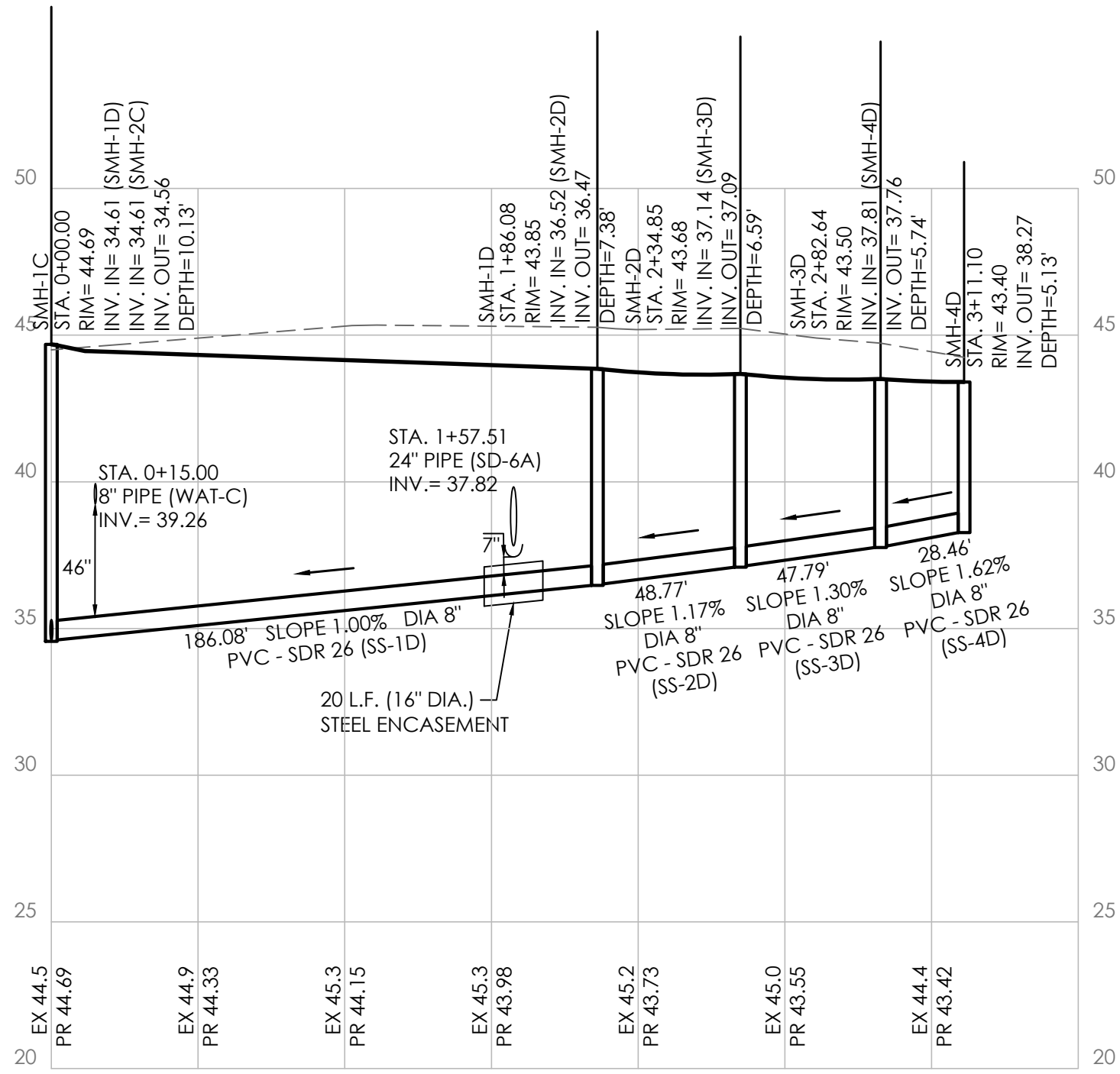
for
AZALEA WOODS - PHASE 8
SUSSEX COUNTY, DELAWARE
Prepared for: NATELLI COMMUNITIES

Date:	07/19/25
Job Number:	18003
Scale:	1"=50'
Drawn By:	ML
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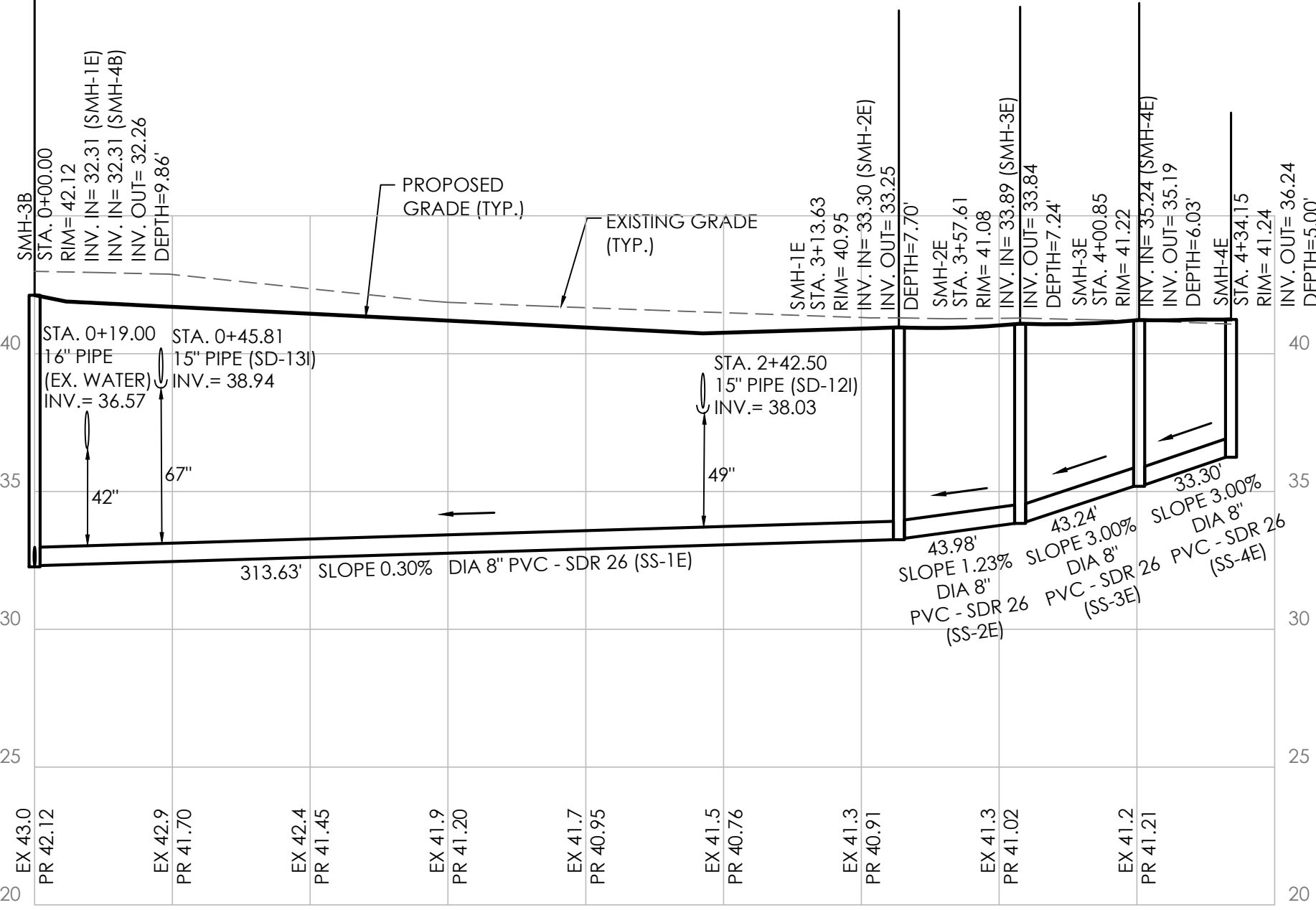
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28

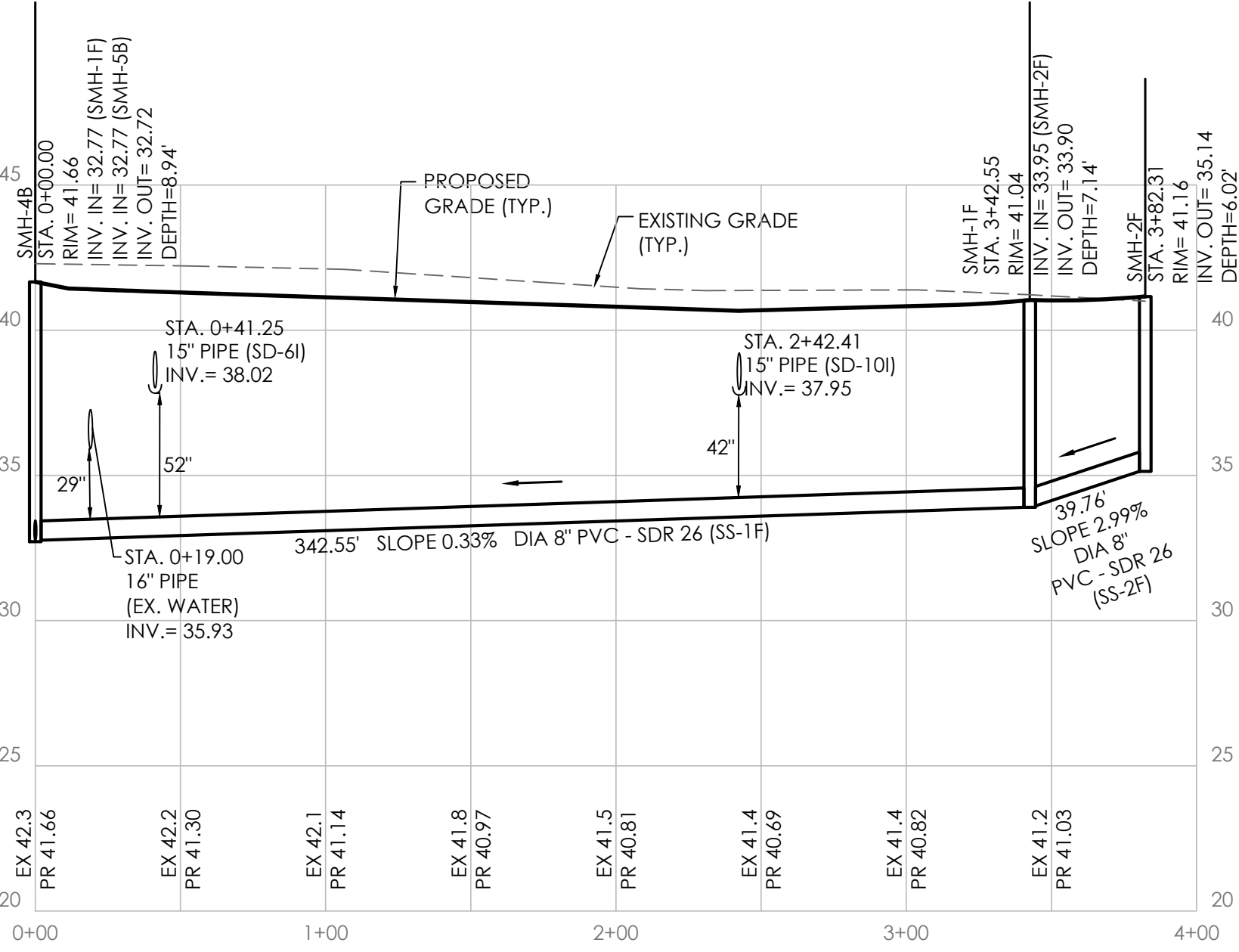
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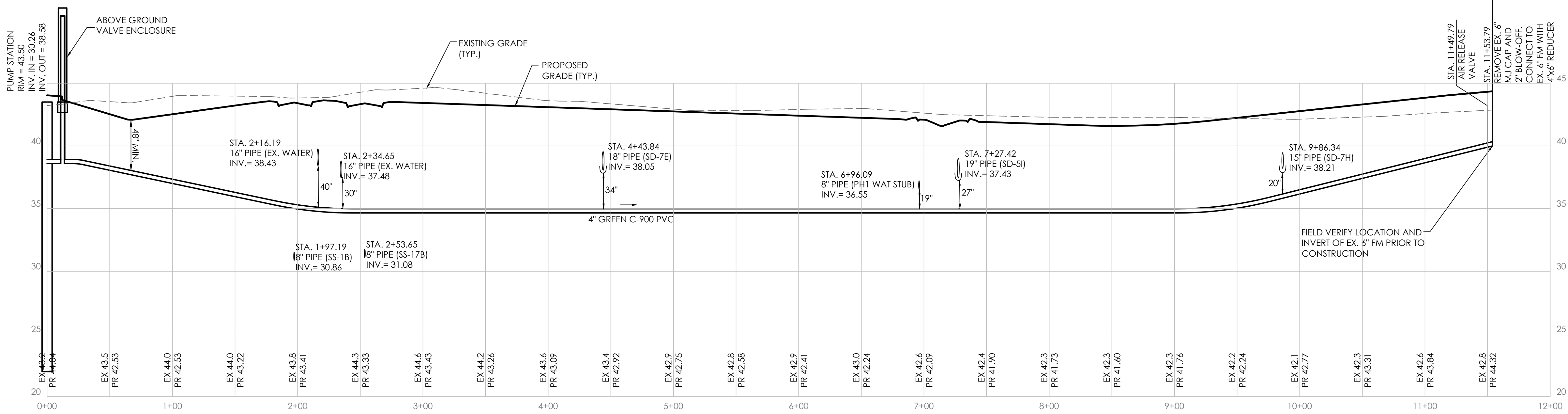
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SCALE: HORIZ.: 1"=50'
VERT.: 1"=5'



SMH-2B TO SMH-4E
SCALE: HORIZ.: 1"=50'
VERT.: 1"=5'



SMH-3B TO SMH-2F
SCALE: HORIZ.: 1"=50'
VERT.: 1"=5'



FORCE MAIN
SCALE: HORIZ.: 1"=50'
VERT.: 1"=5'

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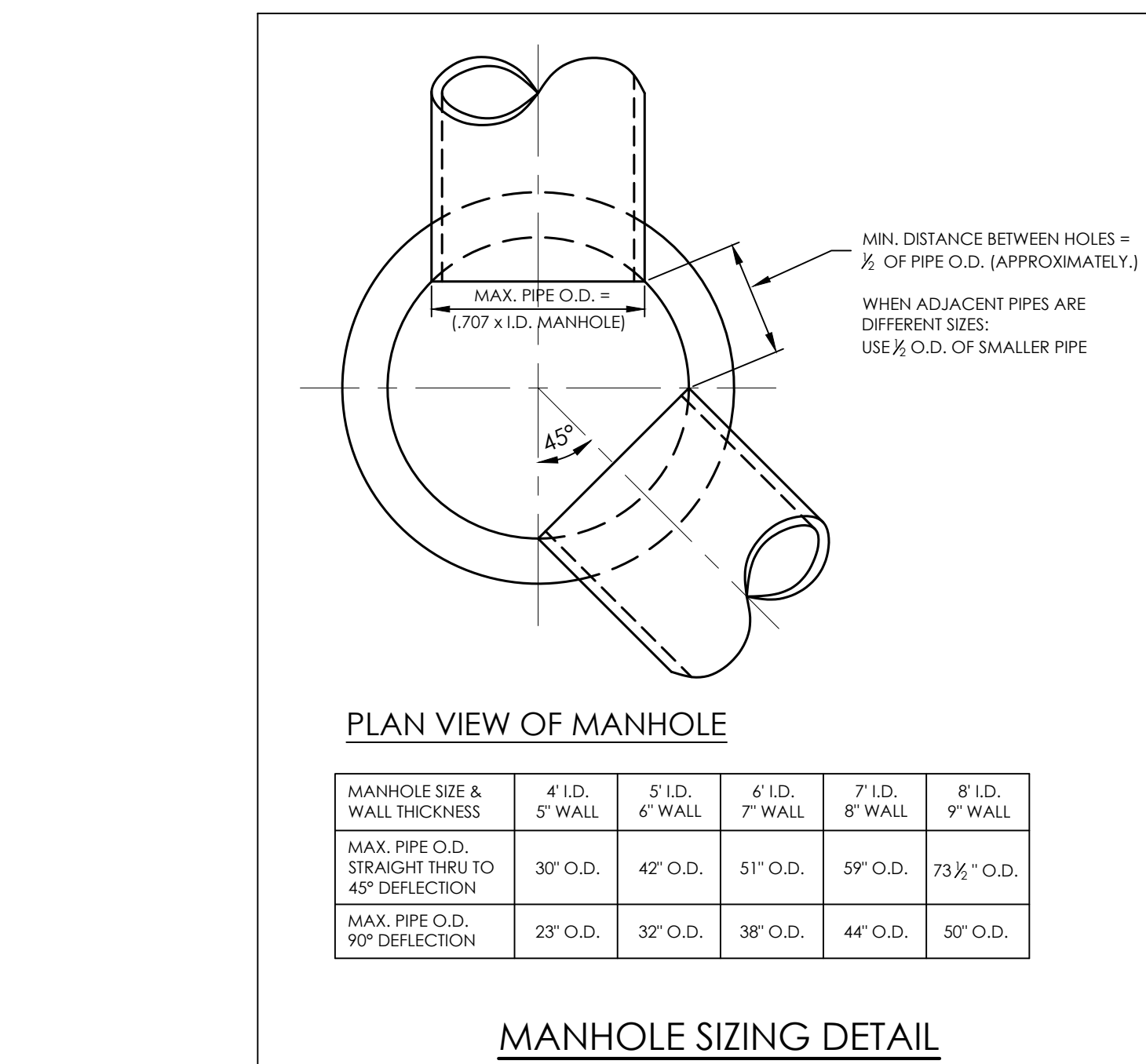
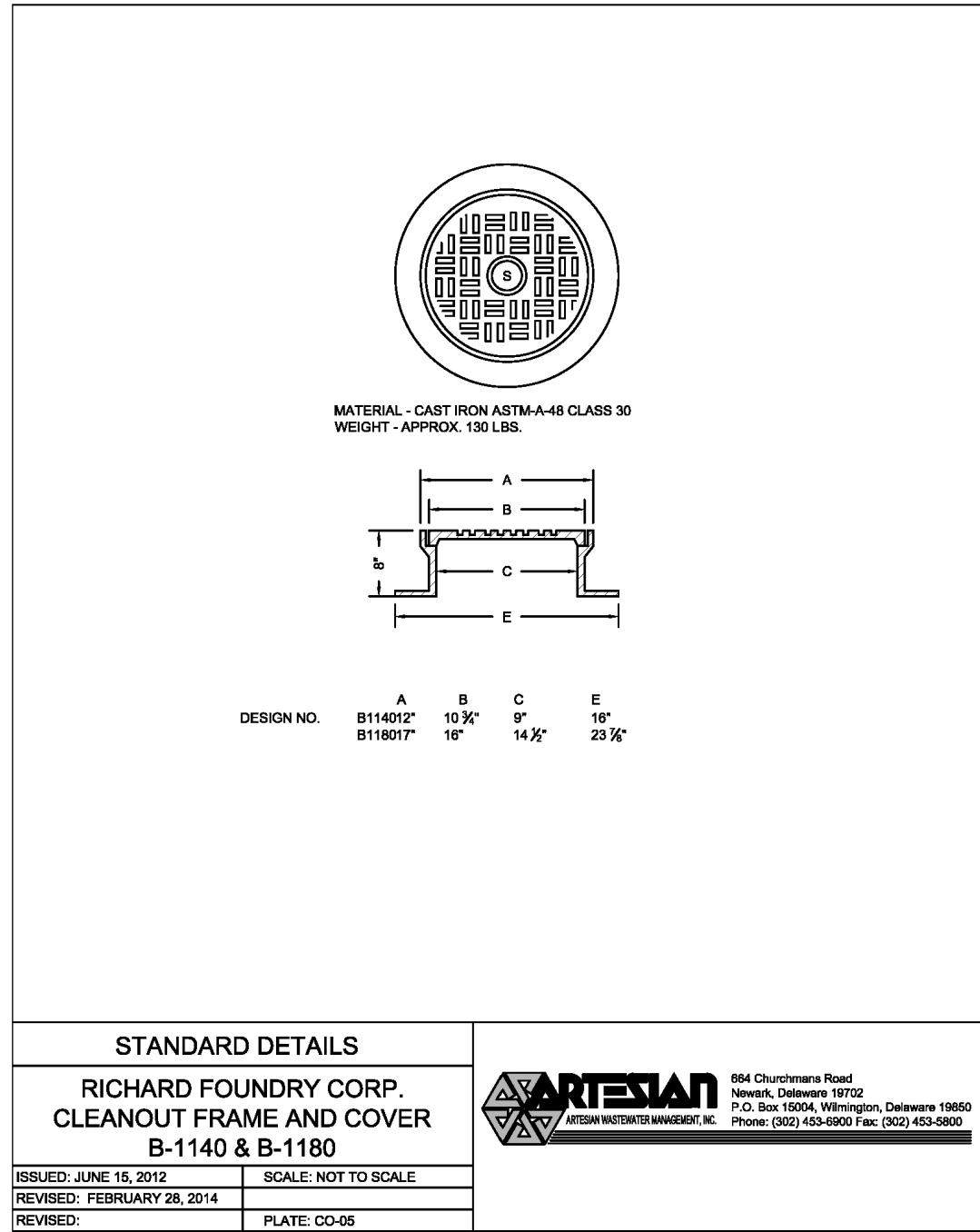
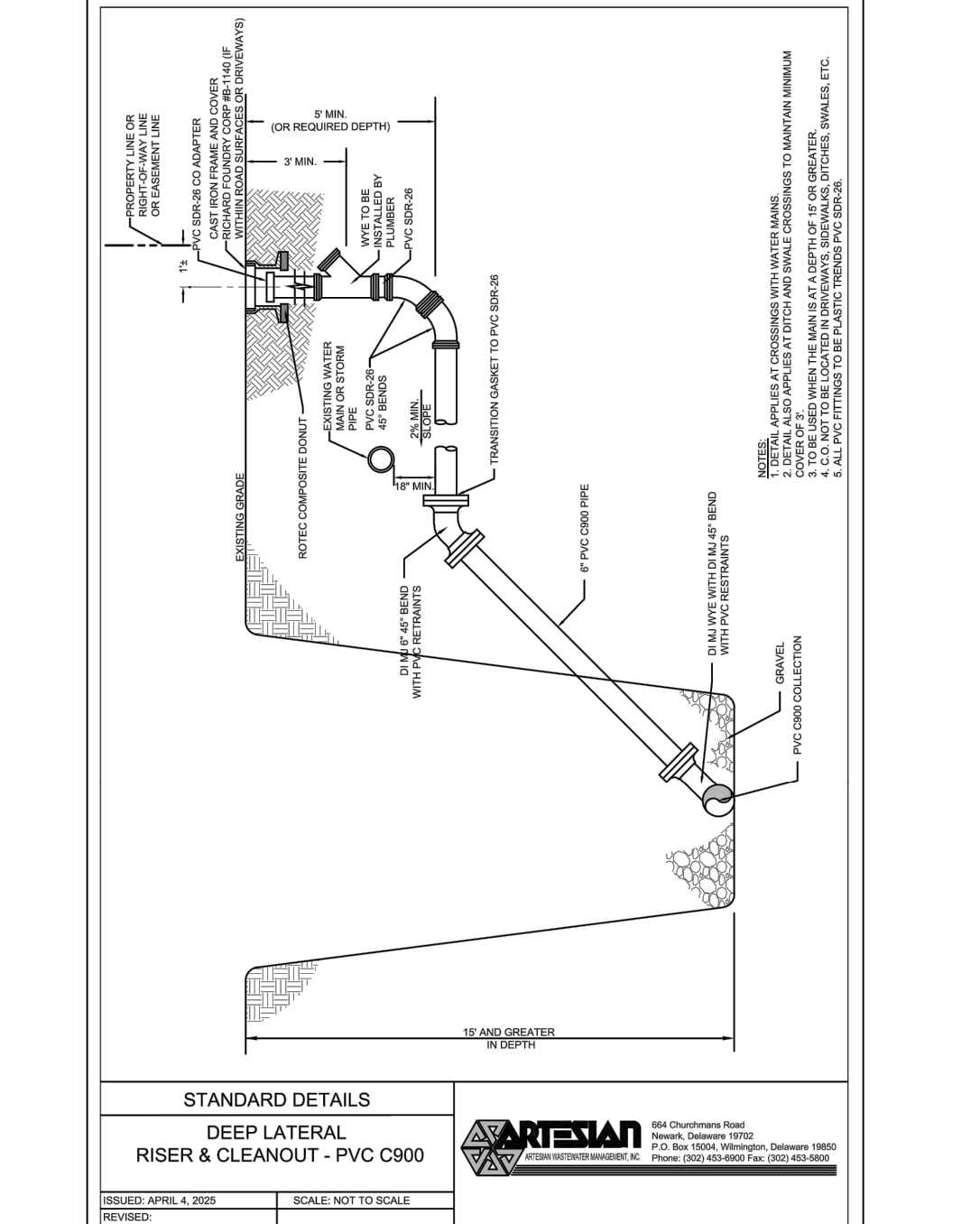
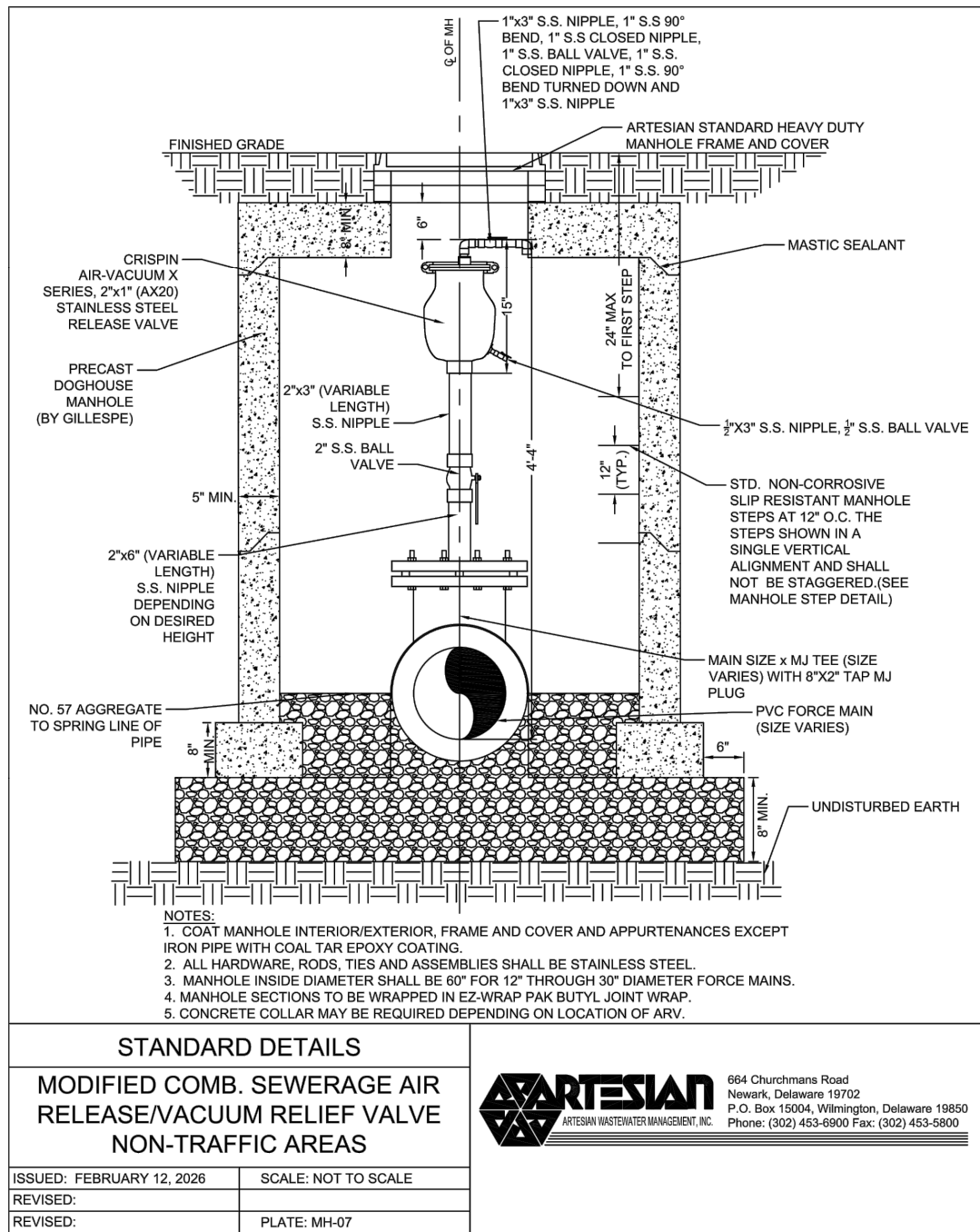
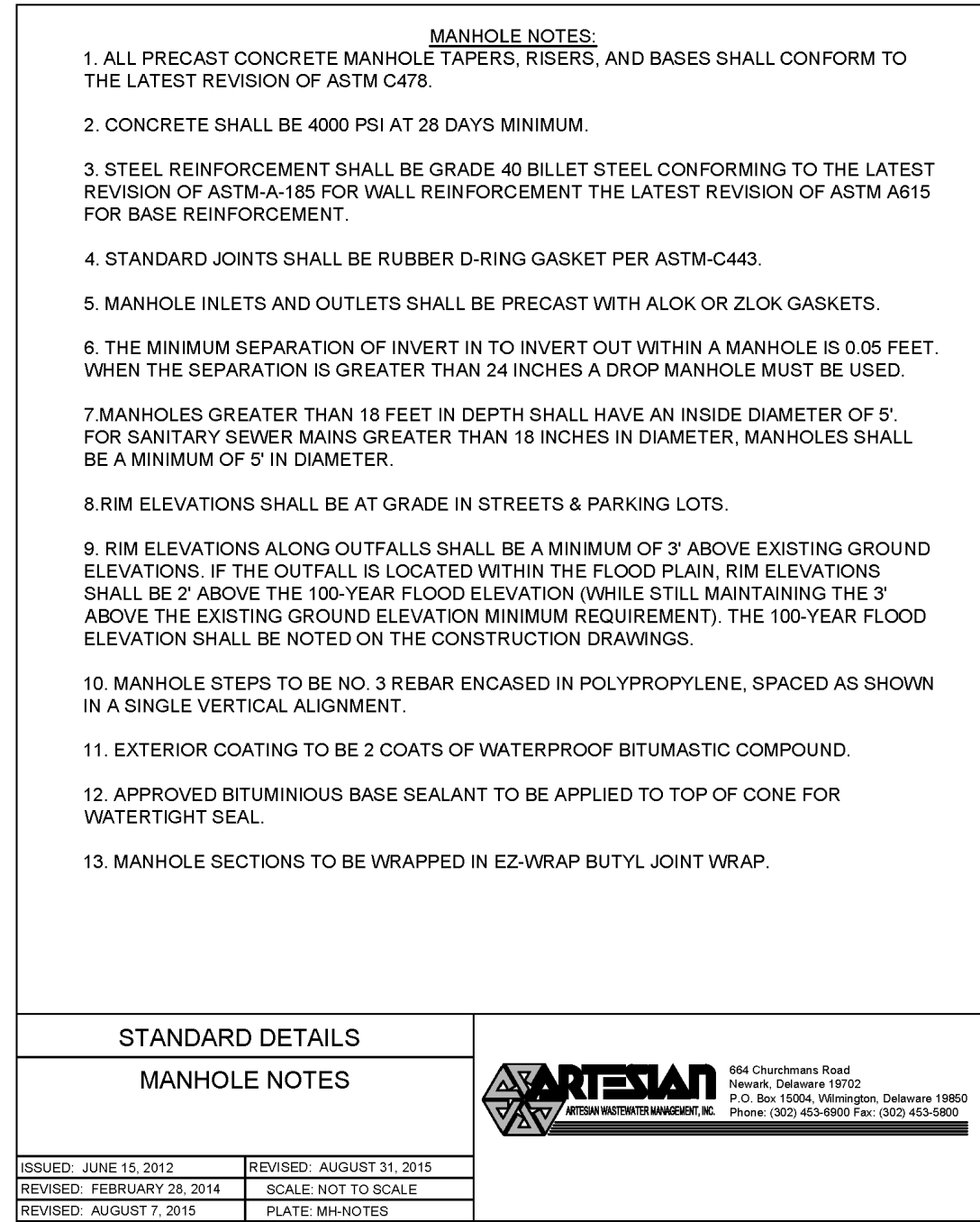
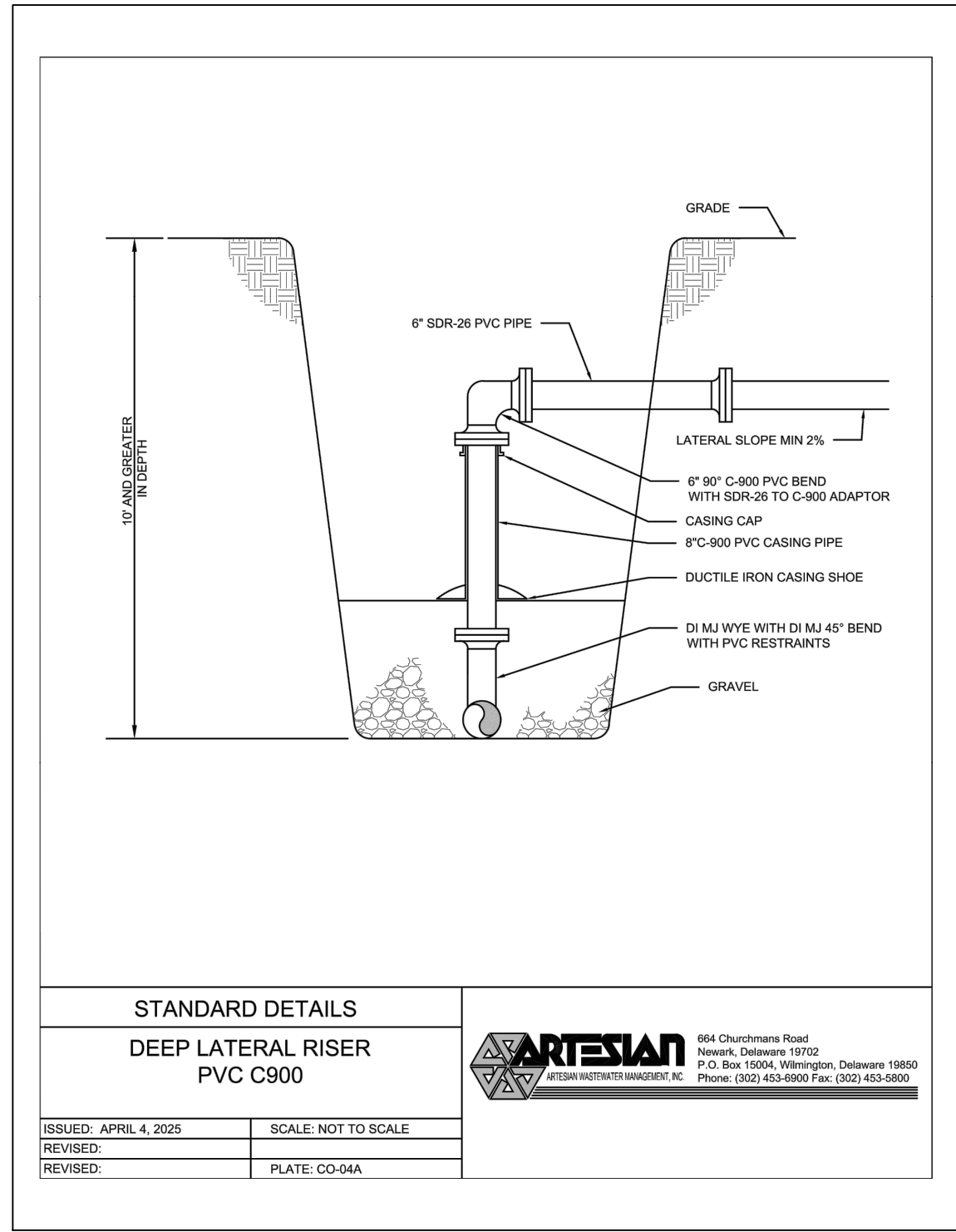
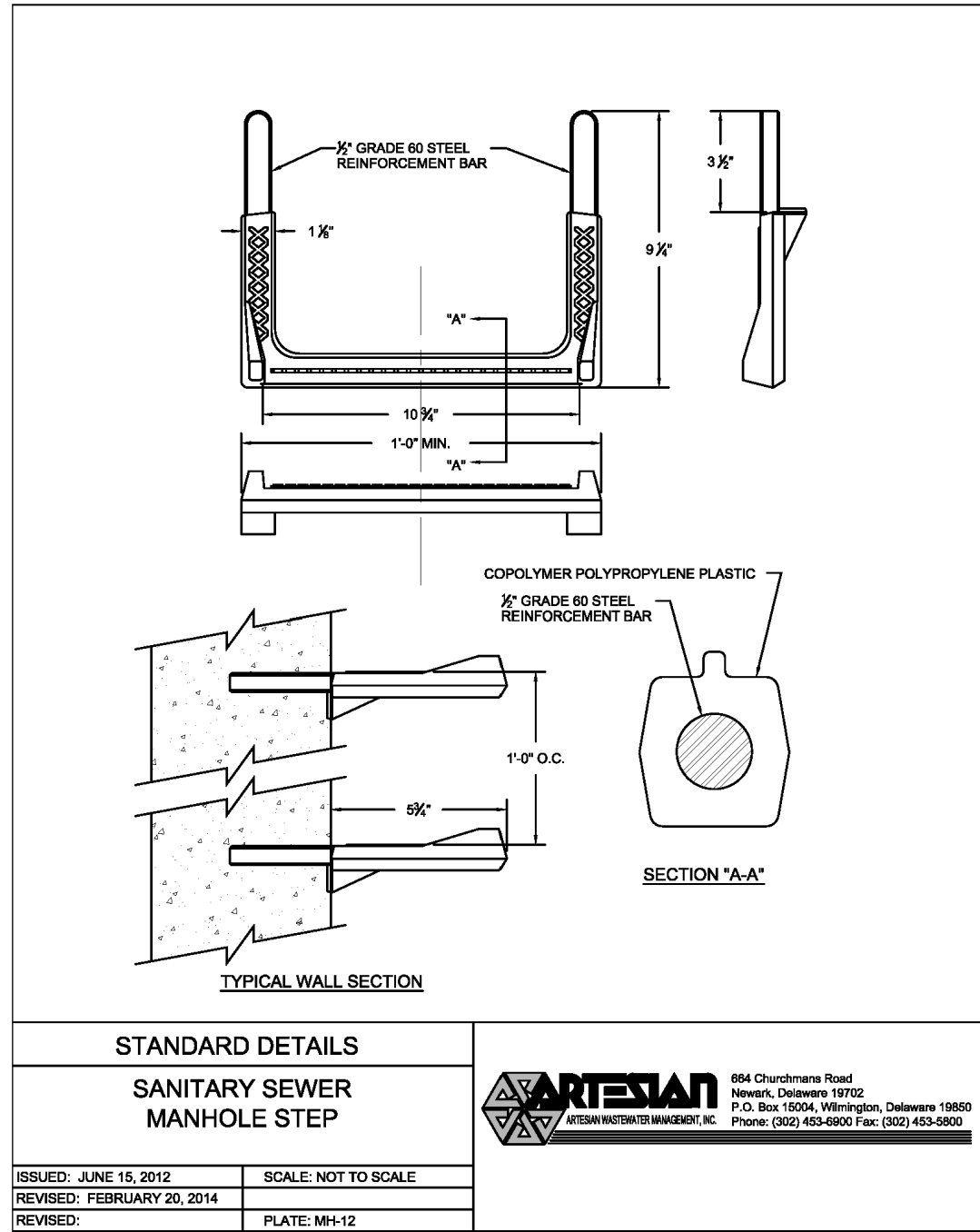
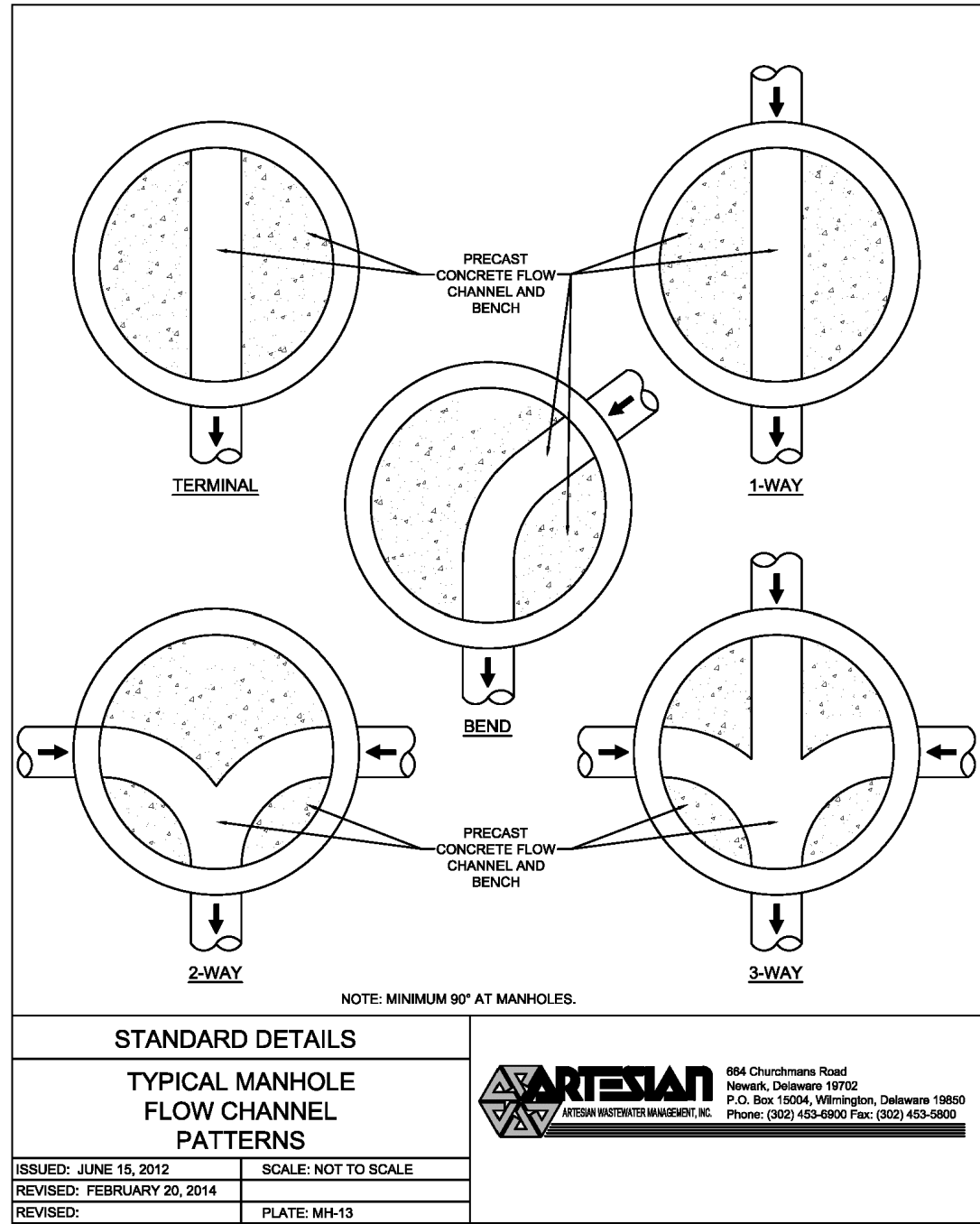
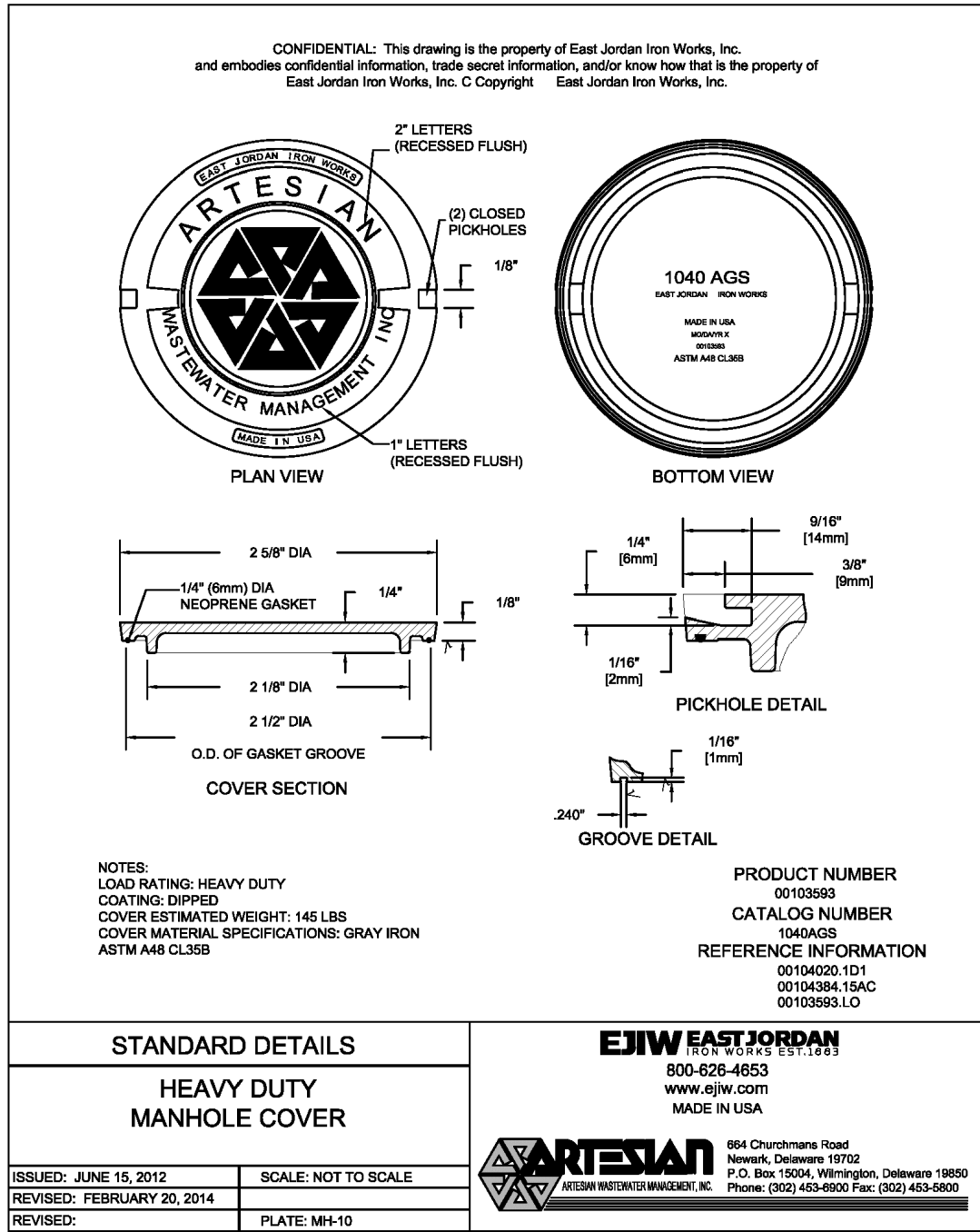
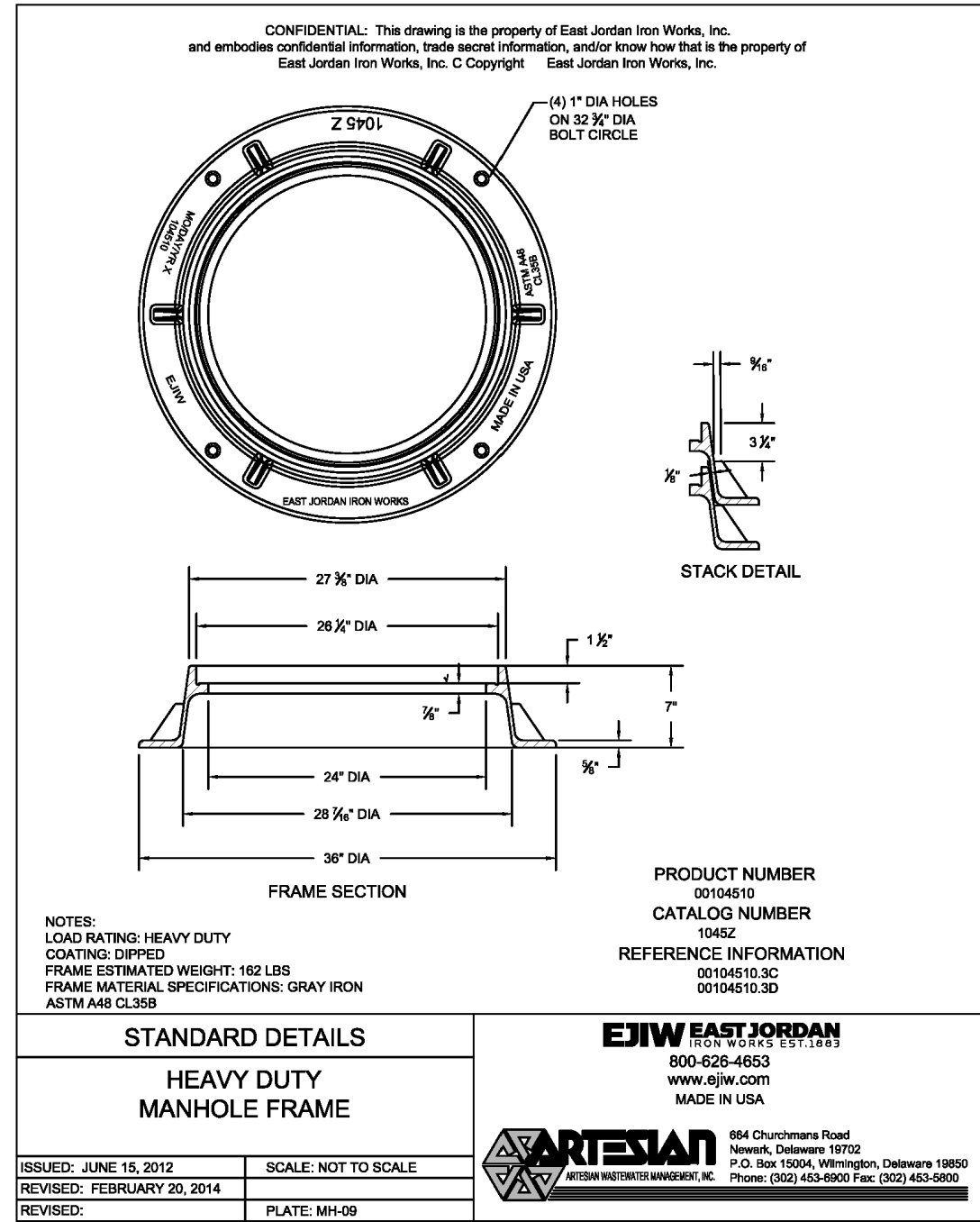
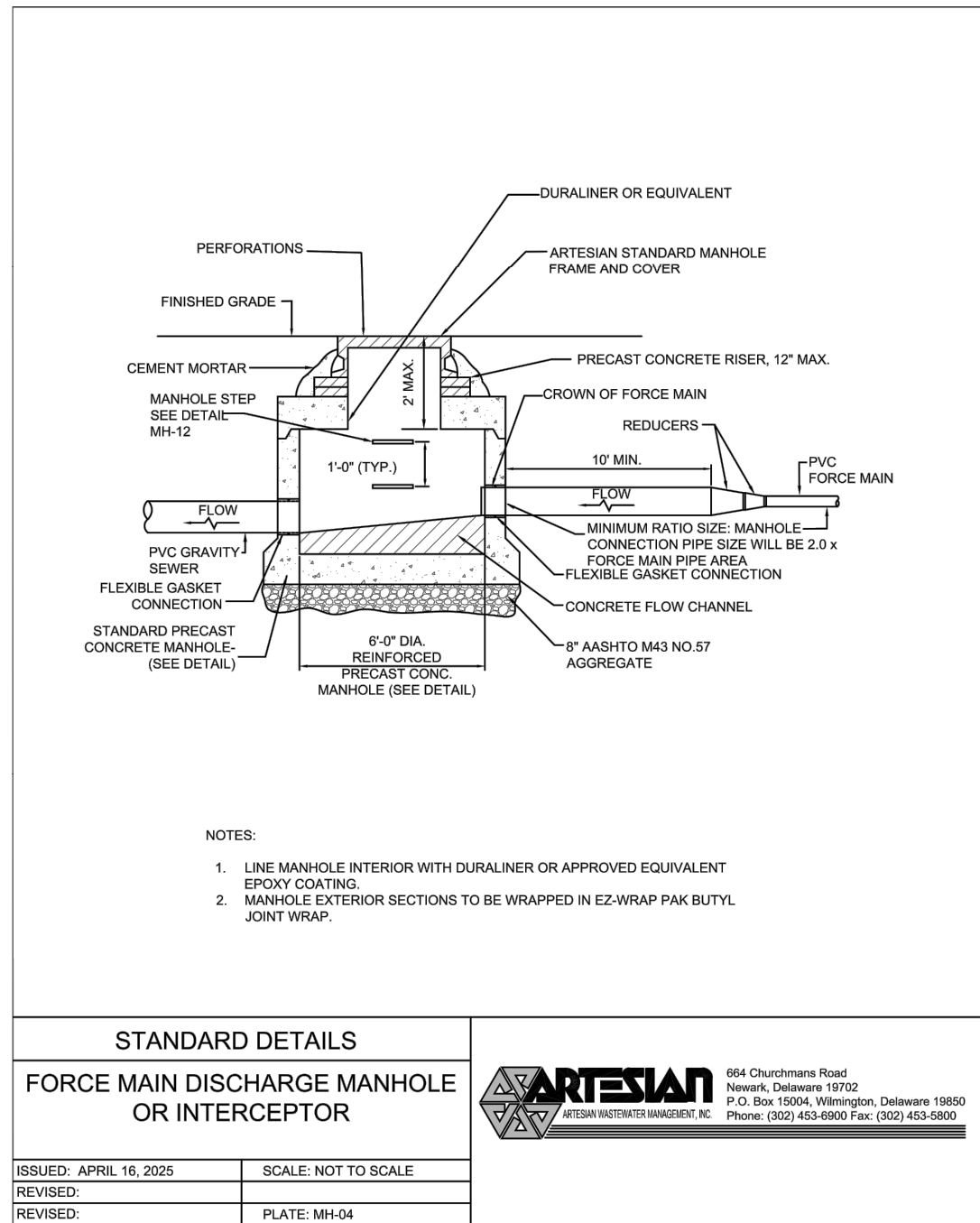
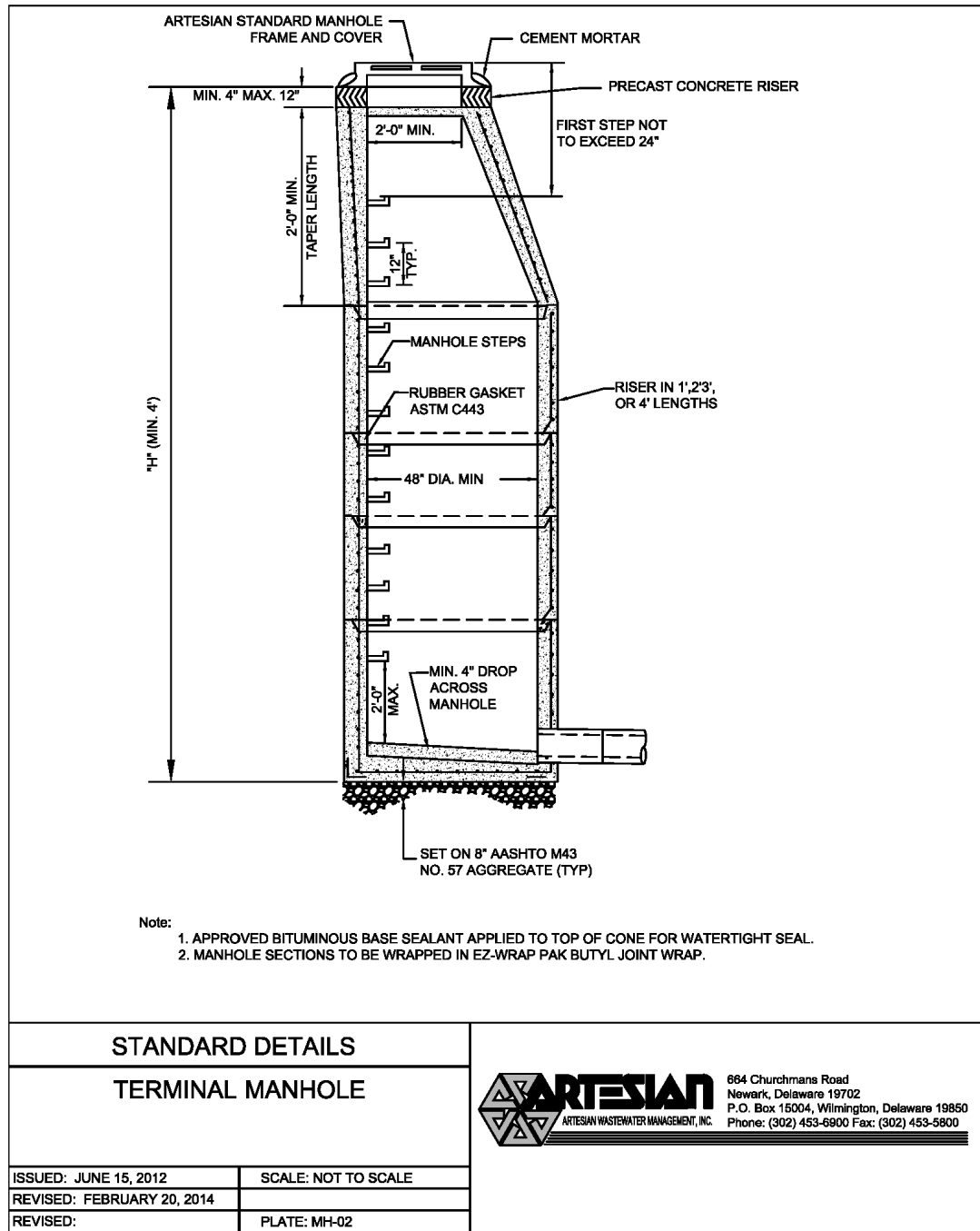
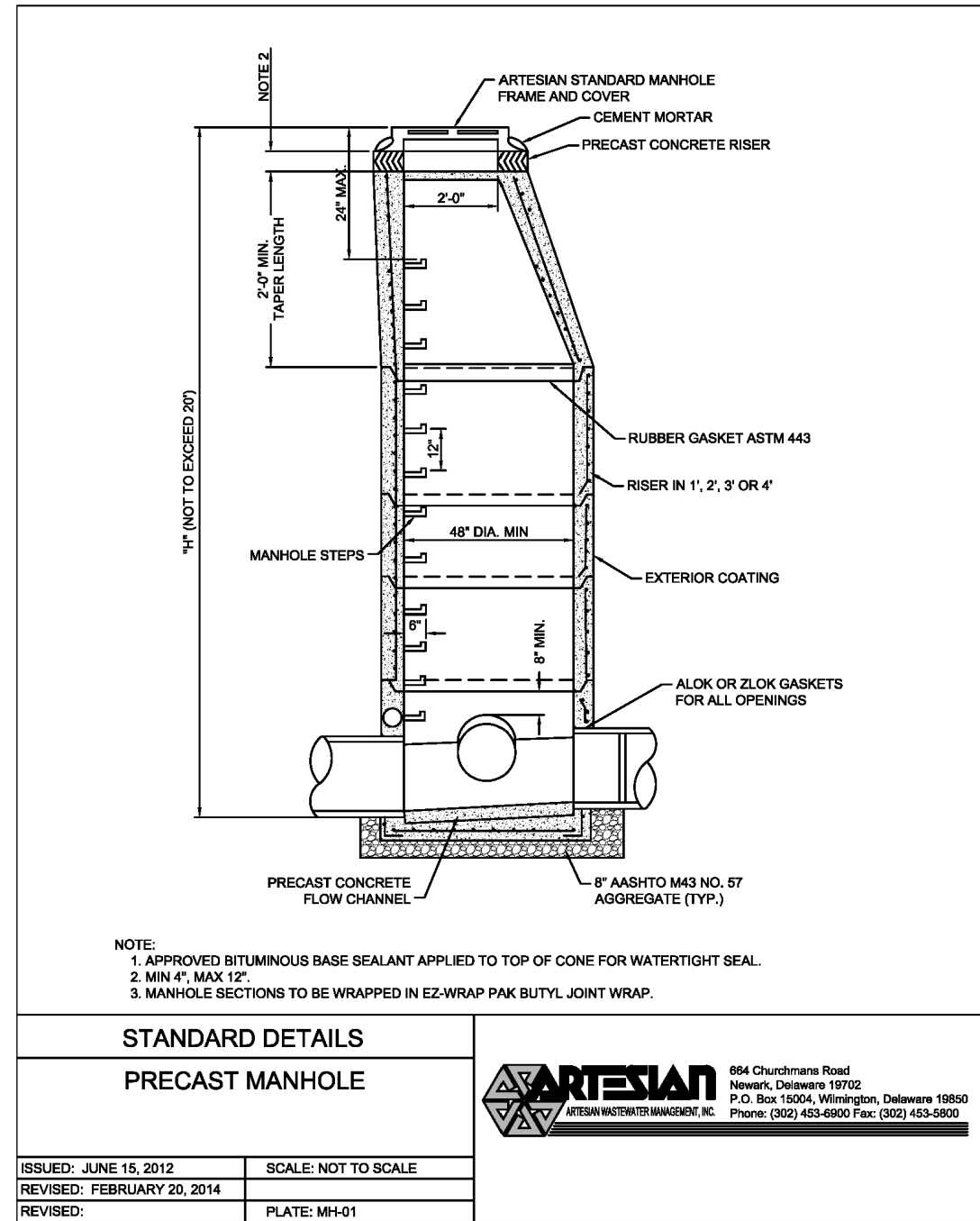
for

AZALEA WOODS - PHASE 8

SUSSEX COUNTY, DELAWARE

Prepared for: NATELLI COMMUNITIES

Date:	07/19/25
Job Number:	18003
Scale:	1"=50'
Drawn By:	NML
Designed By:	DP
Approved By:	JJP



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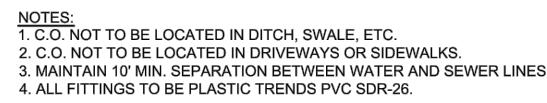
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for
AZALEA WOODS - PHASE 8
SUSSEX COUNTY, DELAWARE
Prepared for: NATELI COMMUNITIES

Date:	07/19/25
Job Number:	18003
Scale:	AS NOTED
Drawn By:	HJB
Designed By:	HJB
Approved By:	JP

Sheet No.: 30

File Name: SS DETAIL



ARTESIAN
ARTESIAN WASTEWATER MANAGEMENT, INC.

664 Churchmans Road
Newark, Delaware 19702
P.O. Box 15004, Wilmington, Delaware 19815
Phone: (302) 453-6900 Fax: (302) 453-5800

ISSUED: MAY 2, 2019	SCALE: NOT TO SCALE
REVISED:	
REVISED:	PLATE: CO-01



884 Churchmans Road
Newark, Delaware 19702
P.O. Box 15054, Wilmington, Delaware 1986
Phone: (302) 453-5500 Fax: (302) 453-5800

ISSUED: JUNE 15, 2012	SCALE: NOT TO SCALE
REVISED: FEBRUARY 28, 2014	
REVISED:	PLATE: CO-03



664 Churchmans Road
Newark, Delaware 19702
P.O. Box 15004, Wilmington, Delaware 19850
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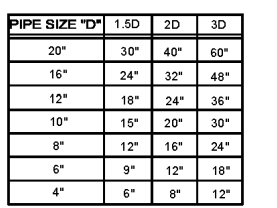
ISSUED: JUNE 15, 2012	REVISED: SEPTEMBER 1, 2015
REVISED: FEBRUARY 20, 2014	SCALE: NOT TO SCALE
REVISED: MARCH 17, 2015	PLATE: TR-01



ARTESIAN
WELLWORKS MANAGEMENT, INC.

854 Churchmans Road
Newark, Delaware 19702
P.O. Box 15004, Wilmington, Delaware 19855
Phone: (302) 453-8900 Fax: (302) 453-8900

ISSUED: JUNE 15, 2012	SCALE: NOT TO SCALE
REVISED: FEBRUARY 20, 2014	
REVISED:	PLATE: CR-01



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694 Churchmans Road
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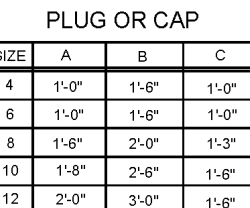
ISSUED: JUNE 15, 2012	SCALE: NOT TO SCALE
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REVISED: SEPTEMBER 1, 2015	PLATE: AWCBS-05



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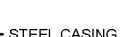
ISSUED: SEPTEMBER 1, 2015	SCALE: NOT TO SCALE
REVISED:	
REVISED:	PLATE: AWCBS-05



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Phone: (302) 453-6900 Fax: (302) 453-5800

ISSUED: SEPTEMBER 1, 2015	SCALE: NOT TO SCALE
REVISED:	
REVISED:	PLATE: AWCBS-02

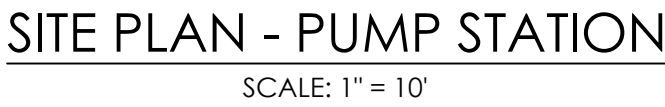


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Newark, Delaware 19702
P.O. Box 15004, Wilmington, Delaware 19855
Phone: (302) 453-6800 Fax: (302) 453-6900

ISSUED: FEBRUARY 20, 2014	SCALE: NOT TO SCALE
REVISED: OCTOBER 8, 2014	
REVISED: SEPTEMBER 1, 2015	PLATE: CR-02

Sheet No.:



Operational Point → 81 gpm at 24 feet total dynamic head

Community / Parcel	Homes
AZALEA WOODS	114
Total	114
Number of EDU's	= 114
Base Flow (240 GPD/EDU)	= 27,360 GPD 19 GPM
Peak Factor (Per Equation)	= 4.00
Peak Flow	= 109,440 GPD 76 GPM
Volume = 2 min. x 76 GPM	= 152 GALLONS
8" Diameter = 0.50 ft Depth (188 GALLONS)	
PIPING = 4" @ 2.10 FPS	



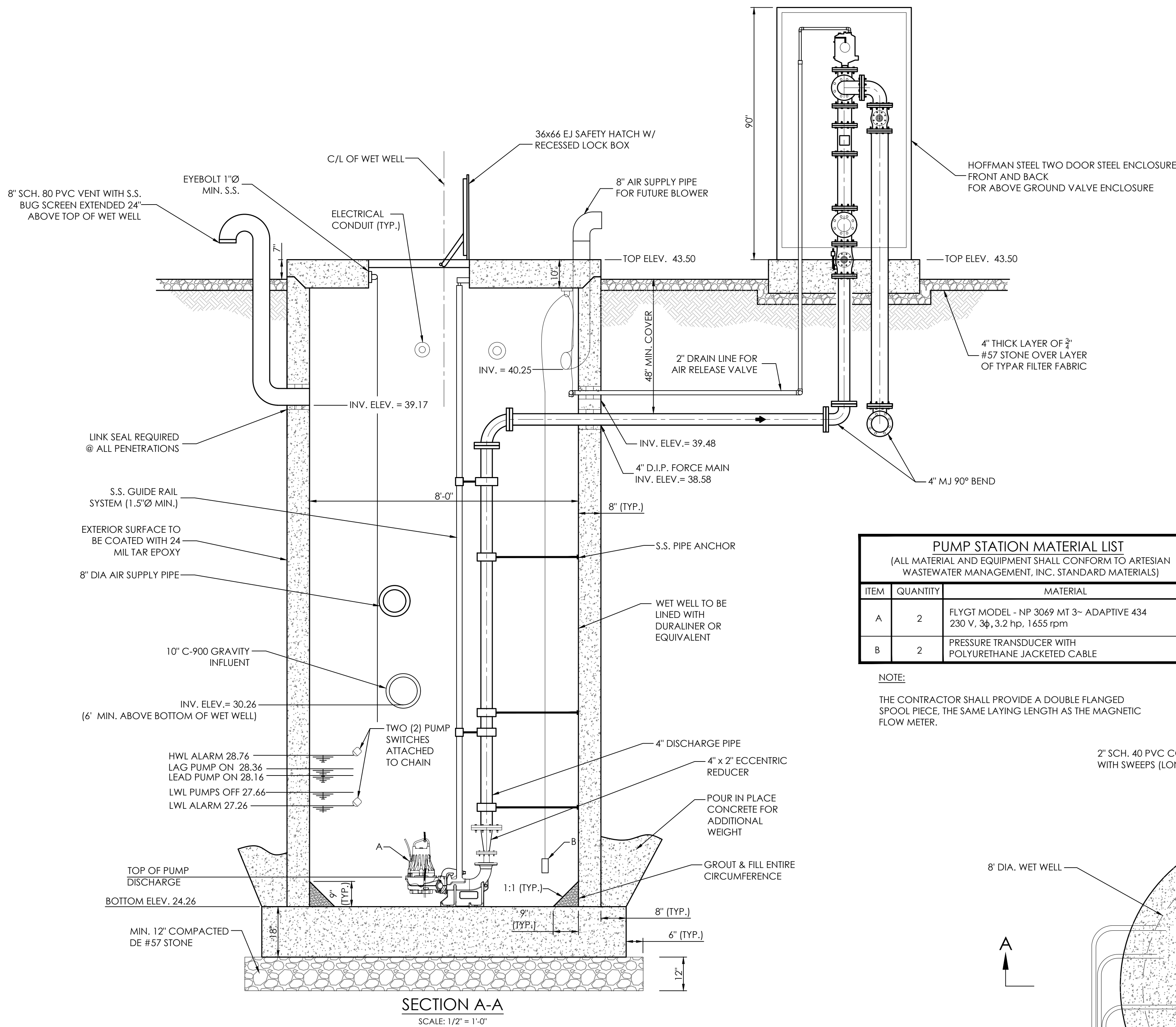
PUMP STATION SITE PLAN

for
LEA WOODS - PHA
SUSSEX COUNTY, DELAWARE
Prepared for: NATELLI COMMUNITIES

Sheet No.:

File Name:
G18003-pump-station

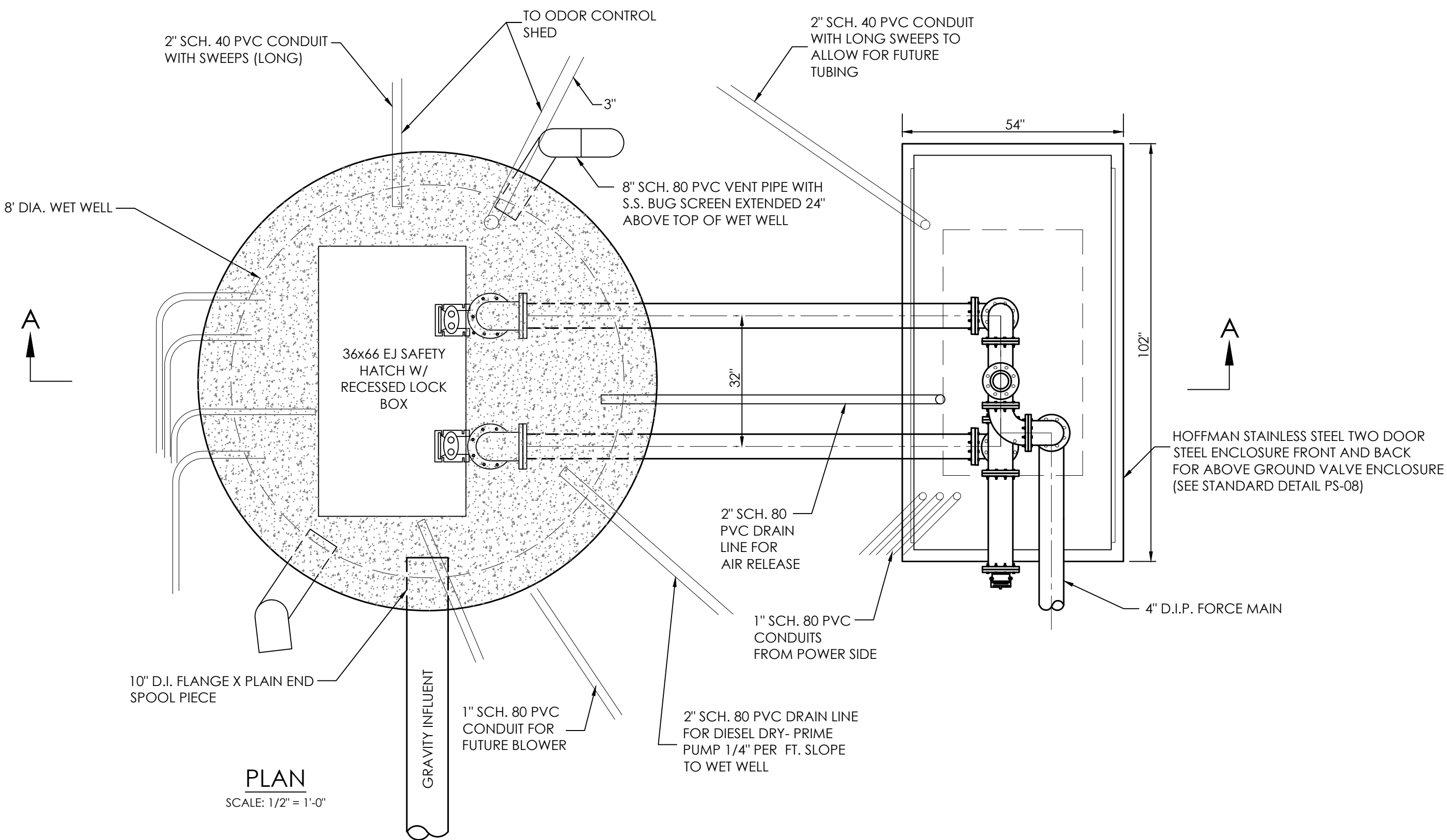
HEAD CALCULATIONS



PUMP STATION MATERIAL LIST (ALL MATERIAL AND EQUIPMENT SHALL CONFORM TO ARTESIAN WASTEWATER MANAGEMENT, INC. STANDARD MATERIALS)		
ITEM	QUANTITY	MATERIAL
A	2	FLYGT MODEL - NP 3069 MT 3~ ADAPTIVE 434 230 V, 3ø, 3.2 hp, 1655 rpm
B	2	PRESSURE TRANSDUCER WITH POLYURETHANE JACKETED CABLE

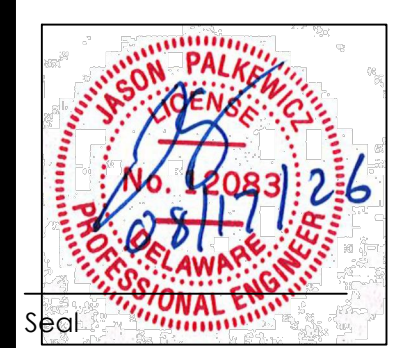
NOTE:

THE CONTRACTOR SHALL PROVIDE A DOUBLE FLANGED SPOOL PIECE, THE SAME LAYING LENGTH AS THE MAGNETIC FLOW METER.



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 WASTEWATER MANAGEMENT, INC.
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REVISIONS		DESCRIPTION
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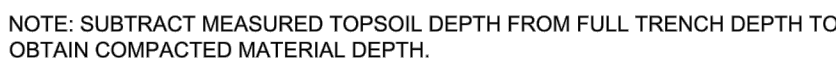
PUMP STATION DETAILS 1
 for
AZALEA WOODS - PHASE 8
 SUSSEX COUNTY, DELAWARE
 Prepared for: NATELLI COMMUNITIES

Date:	07/19/25
Job Number:	18003
Scale:	AS NOTED
Drawn By:	ML
Designed By:	DP
Approved By:	JIP

Sheet No.:

33

File Name:
 G18003-pump-station



TRENCH DETAILS FOR UNPAVED AREAS

 **ARTESIAN**
ARTESIAN WASTEWATER MANAGEMENT, INC.

664 Churchmans Road
Newark, Delaware 19702
P.O. Box 15004, Wilmington, Delaware 19850
Phone: (302) 453-6900 Fax: (302) 453-5800



PUMP STATION EQUIPMENT
CONCRETE PAD TYPICAL SECT

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ARTESIAN WASTEWATER MANAGEMENT, INC.

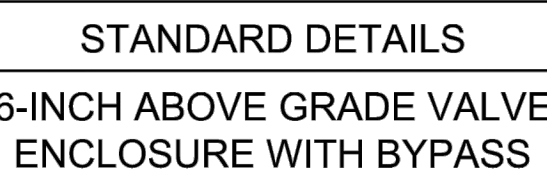
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Newark, Delaware 19702
P.O. Box 15004, Wilmington, Delaware 19851
Phone: (302) 453-6900 Fax: (302) 453-5800



PUMP STATION DRIVEWAY PAVEMENT SECTION

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ARTESIAN WASTEWATER MANAGEMENT, INC.

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Newark, Delaware 19702
P.O. Box 15004, Wilmington, Delaware 19850
Phone: (302) 453-6900 Fax: (302) 453-5800



6-INCH ABOVE GRADE VALVE
ENCLOSURE WITH BYPASS

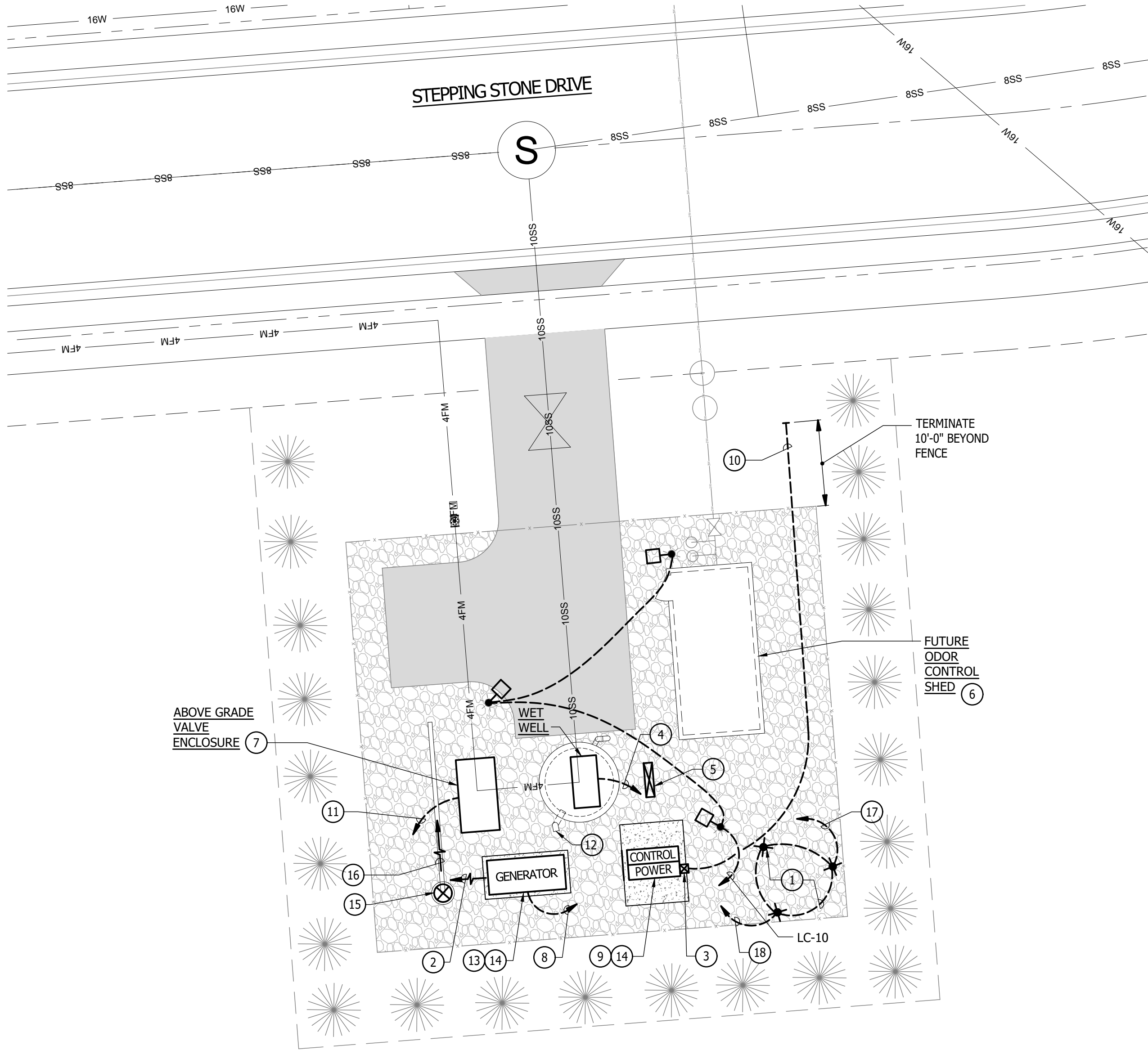
ARTESIAN
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664 Churchmans Road
Newark, Delaware 19702
P.O. Box 15004, Wilmington, Delaware 1985
Phone: (302) 453-6900 Fax: (302) 453-5800



FENCE HEIGHT	END & CORNER POSTS		LINE POSTS	
NOMINAL HEIGHT	B-1 BAR LENGTH	H-1 HEIGHT ABOVE GRADE	B-2 BAR LENGTH	H-2 HEIGHT ABOVE GRADE
4'-0"	7'-0"	4'-0 5/8"	6'-8"	3'-8 7/8"
6'-0"	9'-0"	6'-0 5/8"	8'-8"	5'-8 7/8"
8'-0"	11'-0"	8'-0 5/8"	10'-8"	7'-8 7/8"
10'-0"	13'-0"	10'-0 5/8"	12'-8"	9'-8 7/8"
12'-0"	15'-0"	12'-0 5/8"	14'-8"	11'-8 7/8"





SITE PLAN - PUMP STATION

SCALE: 1" = 10'-0"



SHEET NOTES:

- 1

GROUND GRID CONSISTING OF THREE (3) DRIVEN GROUND RODS (3/4"DIA.X10'-0" LONG, ONE PIECE COPPER CLAD STEEL) DRIVEN 1'-0" TO TOP BELOW GRADE INTERCONNECTED WITH #1/0 BARE COPPER CONDUCTOR BURIED 24" BELOW GRADE. ALL UG. CONNECTIONS SHALL BE EXOTHERMIC WELDED.
- 2

DIRECTION OF ENGINE EXHAUST & RADIATOR DISCHARGE.
- 3

SERVICE METER - MOUNT ON EXTERIOR OF SERVICE EQUIPMENT CABINET UTILIZING VERTICAL ALUMINUM CHANNEL SUPPORTS (MINIMUM 1-1/2" SQUARE X 12 GAUGE) SECURED WITH STAINLESS STEEL THRU-BOLT ASSEMBLIES.
- 4

PUMP MOTOR, LEVEL SENSING & GAS SENSOR CONDUITS TO SERVICE EQUIPMENT CABINET VIA EQUIPMENT MOUNTING PEDESTAL - SEE SINGLE LINE DIAGRAM, SHEET NO. E-2.
- 5

EQUIPMENT MOUNTING PEDESTAL - REFER TO DETAIL, SHEET NO. E-3 & SINGLE LINE DIAGRAM, SHEET NO. E-2.
- 6

SEE SINGLE LINE DIAGRAM, SHEET NO. E-2 FOR FUTURE ELECTRICAL POWER SUPPLY PROVISIONS.
- 7

FURNISH & INSTALL TWO (2) UTILITY HEATERS, LOCATED ON OPPOSITE WALLS OF THE ENCLOSURE. SEE SINGLE LINE DIAGRAM, SHEET NO. E-2, FOR ELECTRICAL CONNECTIONS. HEATERS SHALL BE 500 WATT, 120VOLT, WITH INTEGRAL LINE VOLTAGE THERMOSTAT (40°F TO 70°F RANGE). FURNISH Q MARK CATALOG NO. WHT500, OR EQUAL.
- 8

GENERATOR SUPPLY, CONTROL, ALARM & AUXILIARY POWER CIRCUITS TO SERVICE EQUIPMENT CABINET - SEE SINGLE LINE DIAGRAM, SHEET NO. E-2.
- 9

FREE STANDING, PAD MOUNTED SERVICE EQUIPMENT CABINET "SEC". SEE DETAIL/ ELEVATION, SHEET NO. E-3.
- 10

4" C. (SCHEDULE 80 PVC) TURNOUT FOR INCOMING 240/120V., 1Ø, 3 WIRE POWER CO. SERVICE CONDUCTORS.
- 11

HEATER CIRCUITS & FLOW METER SIGNAL CONDUITS TO SERVICE EQUIPMENT CABINET - SEE SINGLE LINE DIAGRAM, SHEET NO. E-2.
- 12

AIR SUPPLY PIPE FOR FUTURE WET WELL VENT FAN. SEE SINGLE LINE DIAGRAM, SHEET NO. E-2, FOR FUTURE ELECTRICAL CONNECTION PROVISIONS.
- 13

PAD MOUNTED & ENCLOSED DIESEL ENGINE DRIVEN GENERATOR SET, SEE SINGLE LINE DIAGRAM, SHEET NO. E-2.
- 14

SEE CONCRETE PAD DETAIL, SHEET NO. E-3.
- 15

SCADA ANTENNA POLE. SEE POLE/FOUNDATION DETAIL, SHEET NO. E-3. SEE SINGLE LINE DIAGRAM, SHEET NO. E-2 FOR CONDUIT FROM S.E.C.
- 16

POLE HINGE DIRECTION FOR LAY DOWN.
- 17

1 #2 - 3/4" C. TO S.E.C. GROUND BUS.
- 18

1 #2 - 3/4" C. TO GENERATOR PAD RE-BAR & GENERATOR SKID.

ABBREVIATIONS:

- A.

AMP OR AMPERES
- A.F.F.

ABOVE FINISHED FLOOR
- BRKR.

BREAKER
- C.

CONDUIT
- CFM

CUBIC FEET/MINUTE
- CTD.

COATED
- DEC

DELAWARE ELECTRICAL COOPERATIVE
- DIA.

DIAMETER
- DT

DISTRIBUTION TERMINAL
- ELEV.

ELEVATION
- EUC

EASTON UTILITIES COMMISSION
- G.F.I.

GROUND FAULT INTERRUPTER
- GND.

GROUND
- GRS.

GALVANIZED RIGID STEEL
- H.O.A.

HAND OFF AUTOMATIC
- HP

HORSEPOWER
- HZ

HERTZ
- J.B.

JUNCTION BOX
- K.V.A.

KILOVOLT AMPERES
- KW.

KILOWATTS
- LED

LIGHT EMITTING DIODE
- LR

LINE REACTOR
- M.H.

MOUNTING HEIGHT - TO CENTER OF DEVICE OR EQUIPMENT UNLESS OTHERWISE INDICATED.
- P.

POLE OR POLES
- PCP

PUMP CONTROL PANEL
- PLC

PROGRAMMABLE LOGIC CONTROLLER
- PVC

POLYVINYL CHLORIDE
- Ø

PHASE
- RPM

REVOLUTIONS PER MINUTE
- RTU

REMOTE TERMINAL UNIT
- SCADA

SUPERVISORY CONTROL AND DATA ACQUISITION
- SCH.

SCHEDULE
- S.L.D.

SINGLE LINE DIAGRAM
- S.P.

STATIC PRESSURE
- TYP.

TYPICAL
- UG.

UNDERGROUND
- UPS

UNINTERRUPTIBLE POWER SUPPLY
- V.

VOLT OR VOLTS
- VFD

VARIABLE FREQUENCY DRIVE CONTROLLER
- WP.

WEATHERPROOF
- WW.

WET WELL

ELECTRICAL LEGEND

- POLE MOUNTED LED AREA LUMINAIRE - SEE DETAIL, THIS SHEET.
- SWITCH - SINGLE POLE, M.H. 4'-0".
- RECEPTACLE - 20A., 125V. - SIMPLEX, DUPLEX, DUPLEX G.F.I.
- JUNCTION BOX
- MOTOR - NUMBER DENOTES HORSEPOWER.
- CONDUIT-EXPOSED
- CONDUIT-IN OR UNDER FLOOR SLAB OR UNDERGROUND.
- HOMERUN TO PANEL - NO. OF ARROWS INDICATES NO. OF CIRCUITS AND NO. OF CROSSLINES INDICATES NO. OF #12 CONDUCTORS.
- UNDERGROUND GAS SERVICE
- DENOTES REFERENCE TO SHEET NOTE.
- ENCLOSED CIRCUIT BREAKER
- DISCONNECT SWITCH, NON-FUSED
- SPECIAL EQUIPMENT OR DEVICE AS NOTED
- THERMOSTAT
- THERMAL MANUAL MOTOR STARTER,
- AUTOMATIC TRANSFER SWITCH
- PUMP CONTROL PANEL
- TRANSIENT VOLTAGE SURGE SUPPRESSOR
- SERVICE METER
- DISTRIBUTION TERMINAL
- 5% LINE TERMINAL
- VARIABLE FREQUENCY DRIVE CONTROLLER
- FLOW METER
- AUTOMATIC TELEPHONE DIALER
- UNINTERRUPTIBLE POWER SUPPLY
- VOLTAGE MONITOR
- OPERATORS INTERFACE TERMINAL
- PAPERLESS RECORDER
- GAS (HYDROGEN SULFIDE) ANALYZER
- GAS (HYDROGEN SULFIDE) SENSOR
- GROUND BUS
- DENOTES GROUND CONNECTION

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NO.	DATE	DESCRIPTION
1	7/26	REVISED PUMP HP

SITE PLAN & LEGEND

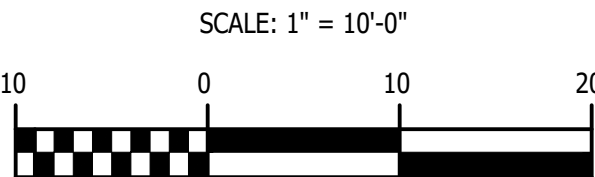
for
AZALEA WOODS - PHASE 8
SUSSEX COUNTY, DELAWARE
Prepared for: NATELLI COMMUNITIES

Date:	02/26
Job Number:	18003
Scale:	AS SHOWN
Drawn By:	JLP
Designed By:	DKJ
Approved By:	DKJ

Sheet No.:

E-1

File Name:
G18003-pump-station



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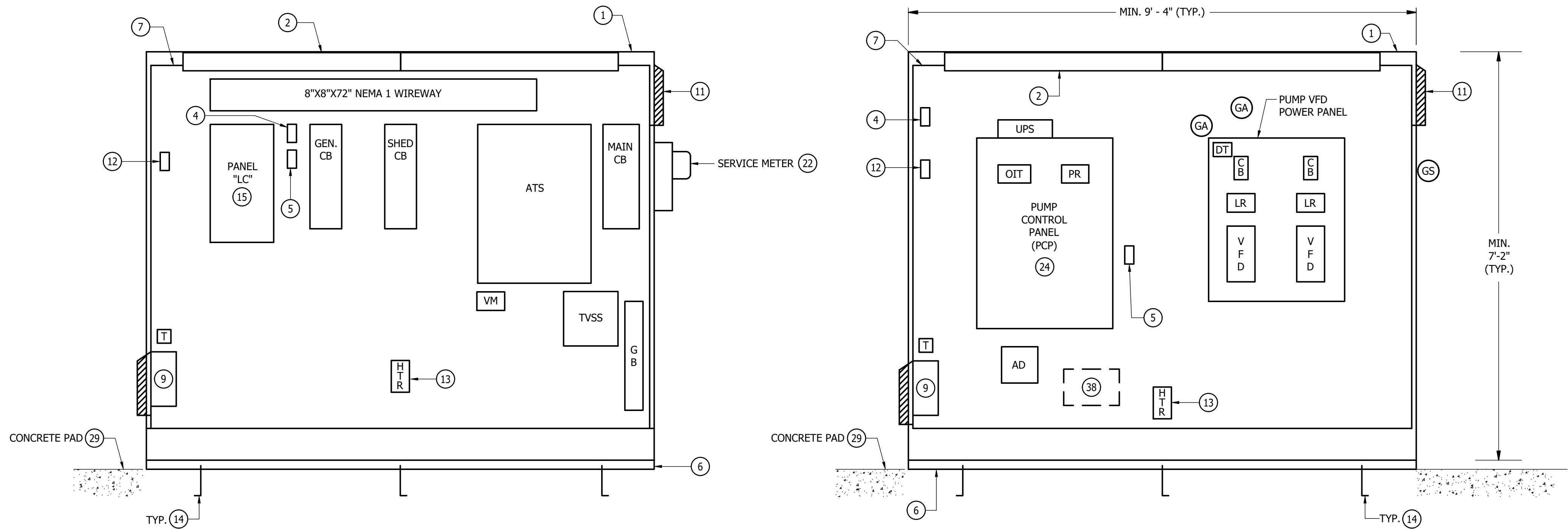
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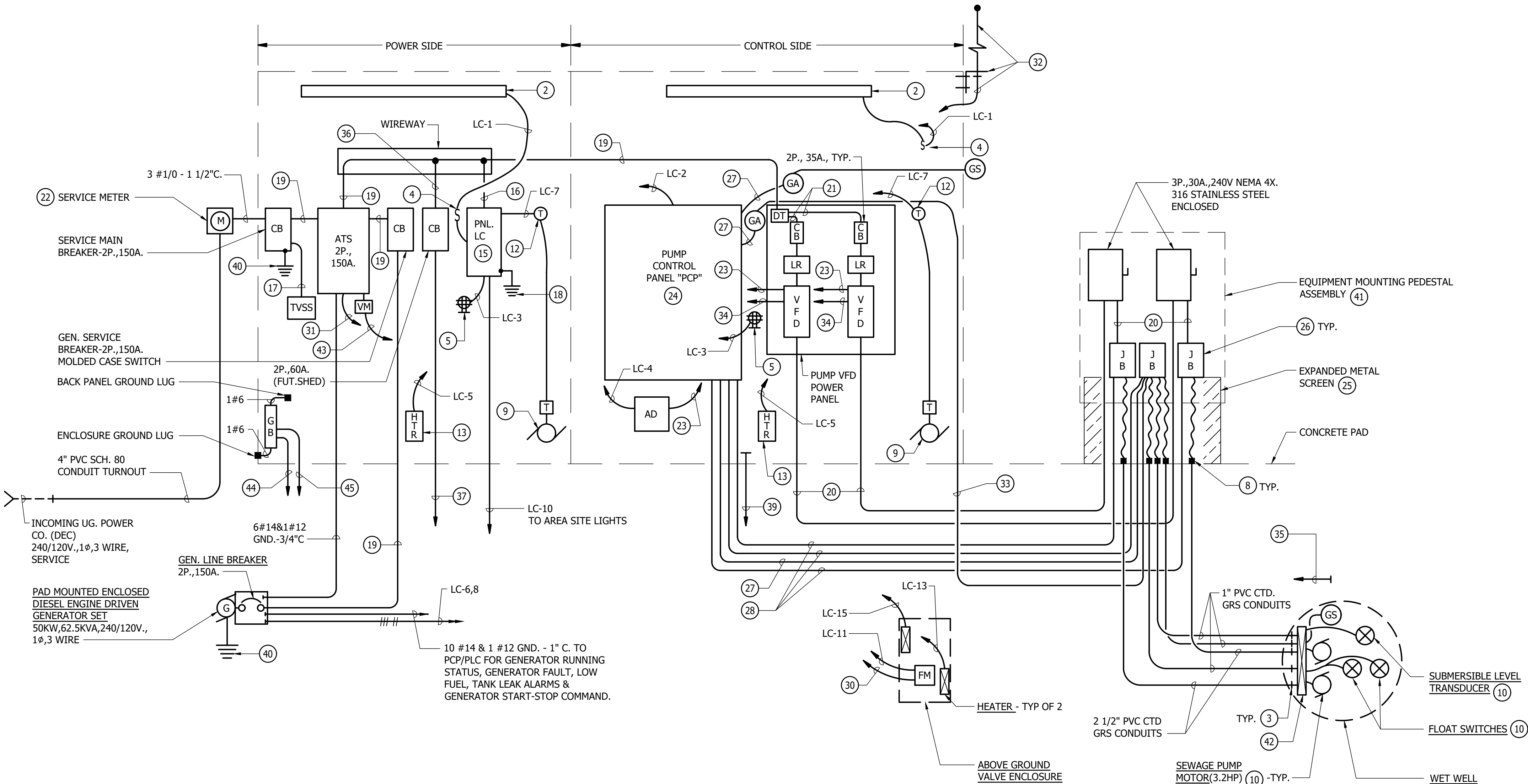
DETAIL - ELEVATION OF
SERVICE EQUIPMENT CABINET

SCALE: 3/4\"=1'-0"

NOTES:
1. MULTI-DOOR FRONT/REAR ACCESS CABINET-48\" TOTAL DEPTH.
2. INNER VERTICAL DOOR SUPPORTS SHALL BE REMOVABLE.

CONTROL SIDE

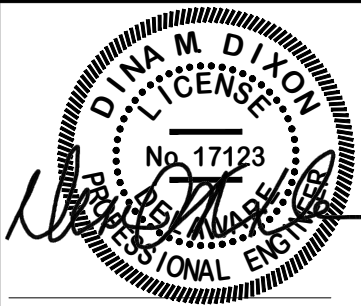
- 43 2 #14 & 1 #12 GND. - 3/4\" C. TO PLP/PLC FOR STATION LOSS OF POWER ALARM.
44 1 #2 - 3/4\" C. TO GROUND GRID.
45 1 #2 - 3/4\" C. TO WET WELL CONCRETE SLAB RE-BAR.



SHEET NOTES:

- 1 SERVICE EQUIPMENT CABINET, MINIMUM SIZE AS INDICATED - SEE SPECIFICATIONS SECTION 16100.
2 48\" LED LIGHT FIXTURE. MOUNT TOWARDS FRONT OF CABINET.
3 TERMINATE CONDUIT 4\" INSIDE WET WELL. PROVIDE INSULATED TYPE BUSHING & STAINLESS STEEL CABLE STRAIN RELIEF GRIP. REFER TO TYPICAL DETAIL, SHEET NO. E-3.
4 LIGHT SWITCH FOR INTERIOR CABINET LIGHTS.
5 DUPLEX G.F.I. RECEPTACLE.
6 1 1/2\" x 3\" STAINLESS STEEL BASE CHANNELS, FULL LENGTH FRONT AND BACK. PROVIDE FINISH TO MATCH CABINET.
7 WHITE FINISHED INTERIOR MOUNTING BACK PANEL.
8 CONDUIT SEALING BUSHINGS WITH GLAND LOCKING COLLAR, OZ GEDNEY TYPE CS BG, OR EQUAL.
9 COOLING AIR FAN PACKAGE: 560 CFM, 1650 RPM, 115V., 1 ϕ , 35 WATTS COMPLETE W/STAINLESS STEEL GRILLE, ALUMINUM AIR FILTER, COMPOSITE AIR PLENUM & COMPOSITE FINGER GUARD. FURNISH HOFFMAN CATALOG NO. A-PA10AXFN, OR EQUAL.
10 WITH INTEGRAL CABLE(S) COMPLETE TO JB.
11 AIR EXHAUST GRILL ASSEMBLY: CONSISTING OF 11.62\" x 13.00\" STAINLESS STEEL GRILLE, ALUMINUM AIR FILTER & MOUNTING HARDWARE. FURNISH HOFFMAN CATALOG NO. A-EXGR10, OR EQUAL.
12 COOLING AIR FAN THERMOSTAT: ADJUSTABLE RANGE OF 70° F TO 140° F, ANODIZED ALUMINUM HOUSING, RATED 12.5 AMPS AT 120VOLT. FURNISH HOFFMAN CATALOG NO. D-TEMA, OR EQUAL.
13 HEATER: 400 WATTS, 115V., 1 ϕ , ANODIZED ALUMINUM HOUSING WITH INTEGRAL THERMOSTAT & FAN. FURNISH HOFFMAN CATALOG NO. D-AH4001B, OR EQUAL.
14 3/4\" DIA. x 10\" LONG \"L\" STAINLESS STEEL ANCHOR BOLT ASSEMBLY, FRONT AND BACK, SET IN CONCRETE PAD.
15 SEE PANEL SCHEDULE, SHEET NO. E-3 FOR BRANCH BREAKER SIZES & USAGE.
16 3 #8 & 1 #10 GND. - 3/4\" C.
17 3 #8 & 1 #8 GND. - 3/4\" C.
18 1 #6 - 3/4\" C. TO GROUND GRID.
19 3 #1/0 & 1 #6 GND. - 2\" C.
20 3 #10 & 1 #10 GND. - 3/4\" C.
21 2 #10 & 1 #10 GND.
22 SECURE TO CABINET UTILIZING VERTICAL CHANNEL SUPPORTS AS DESCRIBED IN NOTE 3, SHEET NO. E-1.
23 14 #14 & 1 #12 GND. - 1 1/4\" C. TO PCP/PLC.
24 PUMP CONTROL PANEL (PCP) - REFER TO SPECIFICATION SECTION, 16920.
25 PROVIDE STAINLESS STEEL, NO. 6 GAUGE MINIMUM, WIRE METAL MESH SCREEN TO ENCLOSE/PROTECT CABLES. ATTACH TO S.E.C. WITH STAINLESS STEEL HARDWARE. SUBMIT FABRICATION DRAWINGS FOR REVIEW PRIOR TO CONSTRUCTION.
26 18\" HIGH X 8\" DEEP X 12\" WIDE NEMA 4X JUNCTION BOX, STAINLESS STEEL CONSTRUCTION WITH HINGED LOCKABLE COVER, INTERIOR BACKPLATE WITH WHITE FINISH & SQUARE D TERMINAL BLOCKS FOR ALL INCOMING & OUT GOING WIRING
27 2/C #18 SHIELDED CABLE IN 3/4\" C. TO PCP/PLC.
28 4 #14 & 1 #12 GND. - 3/4\" C. TO PCP/PLC.
29 SEE TYP. CONCRETE PAD DETAIL, SHEET NO. E-3.
30 2/C #18 SHIELDED CABLE IN 3/4\" C. TO PCP/PLC.
31 4 #14 & 1 #12 GND. - 3/4\" C. TO PCP/PLC FOR ATS NORMAL POSITION & EMERGENCY POSITION STATUS SIGNALS.
32 CELLULAR ANTENNA BRACKET MOUNTED TO S.E.C. (STAINLESS STEEL ANGLE BRACKET THRU BOLT SECURED TO S.E.C. W/STAINLESS STEEL HARDWARE) WITH ANTENNA CABLE TO AUTO-DIALER.
33 3/C #18 SHIELDED CABLE IN 3/4\" C.
34 3-2/C #18 SHIELDED CABLES IN 3/4\" C. TO PCP/PLC.
35 PROVIDE 1\" EMPTY CONDUIT WITH PULL LINE TO CONTROL SIDE OF S.E.C. TERMINATE WITHIN SIX INCHES OF THE AIR SUPPLY PIPE AT THE WET WELL FOR FUTURE ELECTRICAL CONNECTIONS.
36 3 #6 & 1 #8 GND. - 1\" C.
37 1 1/2\" EMPTY CONDUIT WITH PULL LINE. EXTEND TO WITHIN THREE FEET OF THE FUTURE ODOR CONTROL SHED & TERMINATE FOR FUTURE ELECTRICAL CONNECTION.
38 ALLOW SPACE IN CABINET FOR FUTURE RADIO & ANTENNA CABLE LIGHTNING ARRESTOR.
39 1 1/4\" C. TO SCADA POLE FOR FUTURE ANTENNA CABLE.
40 1 #4 - 3/4\" C. TO GROUND GRID.
41 REFER TO DETAIL, SHEET NO. E-3.
42 PROVIDE SIX HOOK, STAINLESS CABLE BRACKET ASSEMBLY CONERY MFG. INC. U-TYPE NO. 6 AHB, OR EQUAL. SECURE TO CONCRETE FACE UTILIZING CONERY STAINLESS STEEL WEDGE ANCHORS. COORDINATE INSTALLATION WITH STRUCTURAL ENGINEER. SUPPORT CABLES UTILIZING APPROPRIATE STAINLESS STEEL CABLE STRAIN RELIEF DEVICES W/EYE HOOKS.

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S.E.C. DIAGRAM & DETAIL
for
AZALEA WOODS - PHASE 8
SUSSEX COUNTY, DELAWARE
Prepared for: NATELLI COMMUNITIES

Date:	02/24
Job Number:	18003
Scale:	AS SHOWN
Drawn By:	JLP
Designed By:	DKJ
Approved By:	DKJ

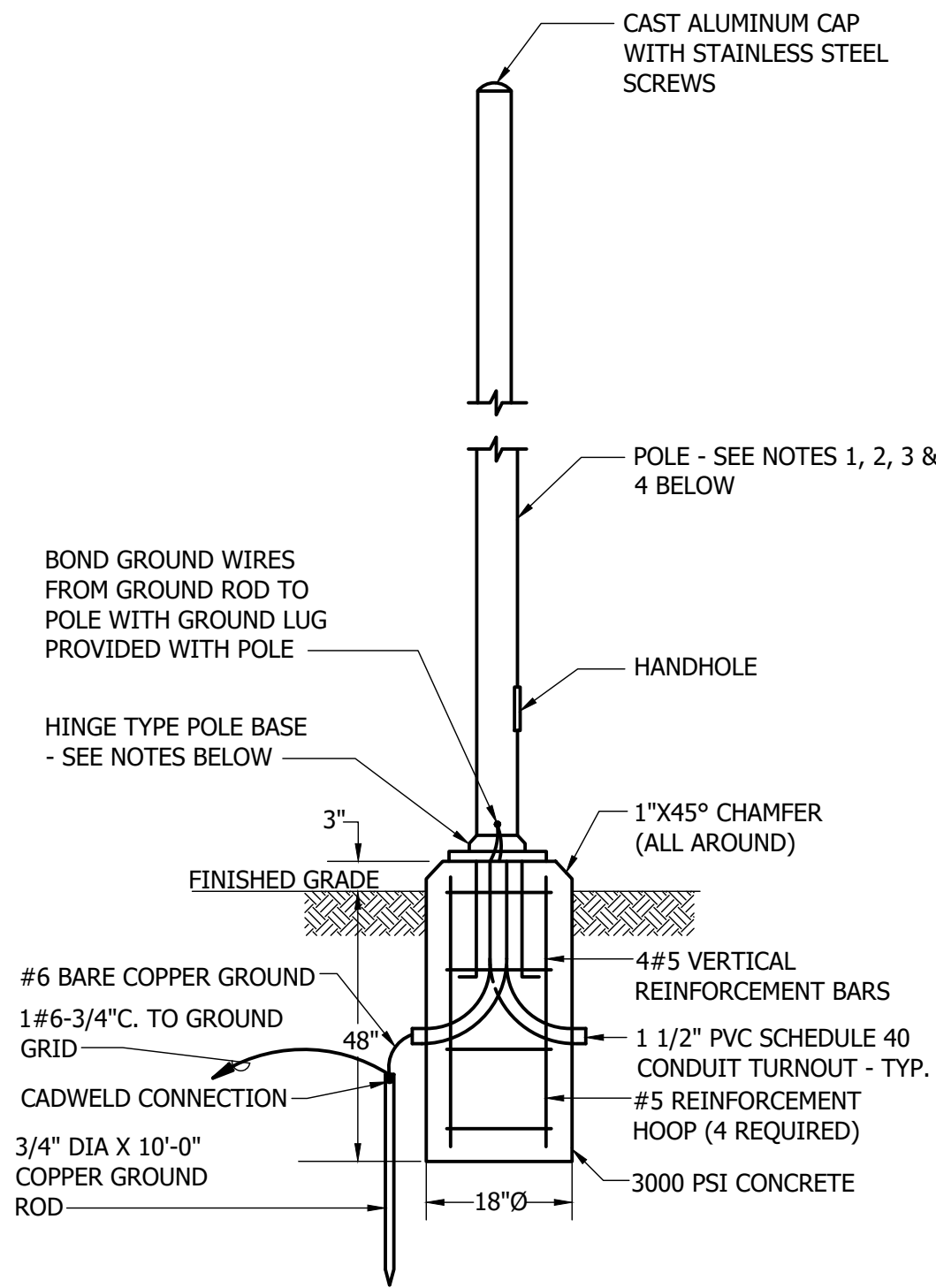
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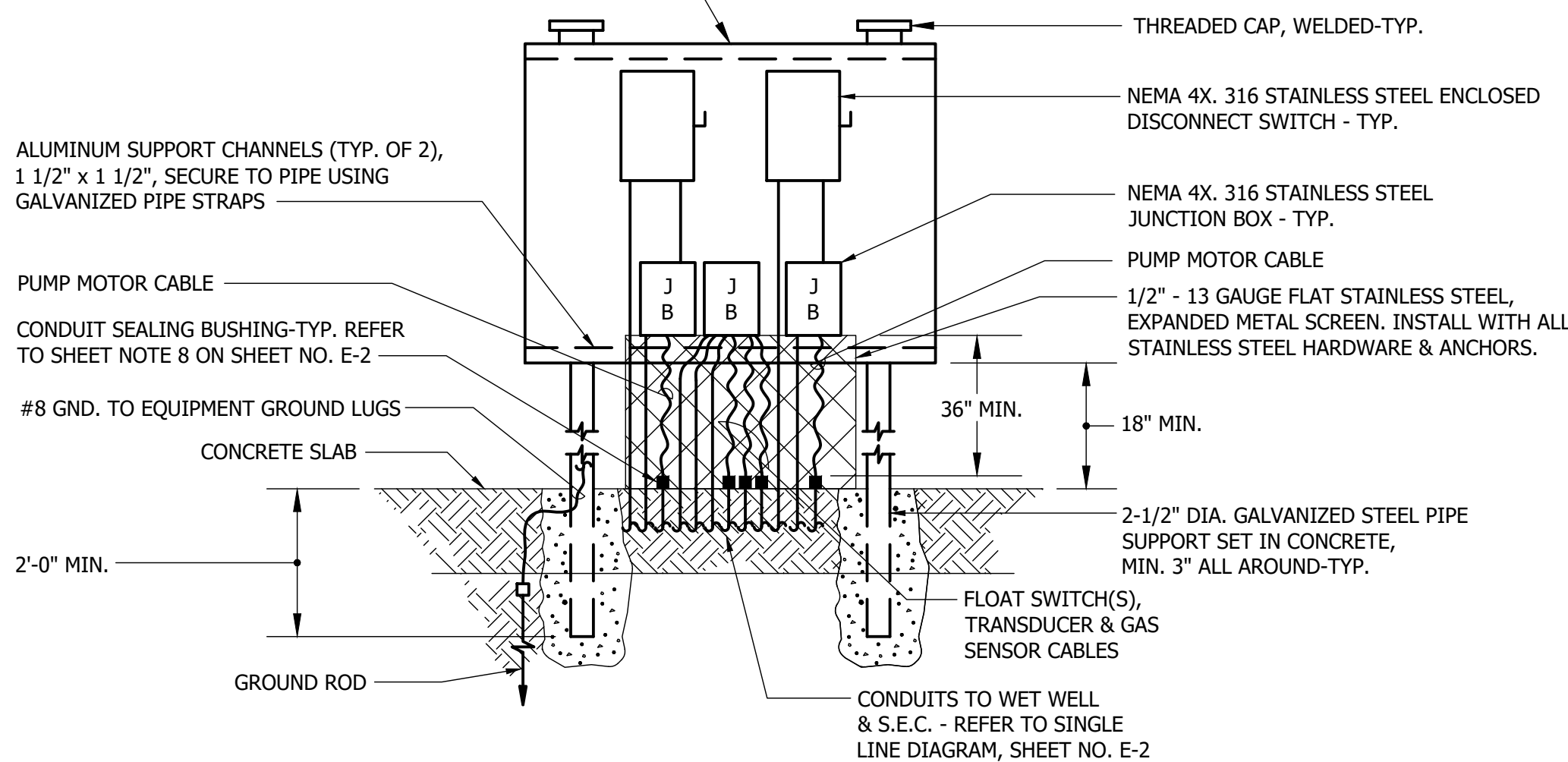


**DETAIL - SCADA ANTENNA
POLE/FOUNDATION**
SCALE: NONE

NOTES

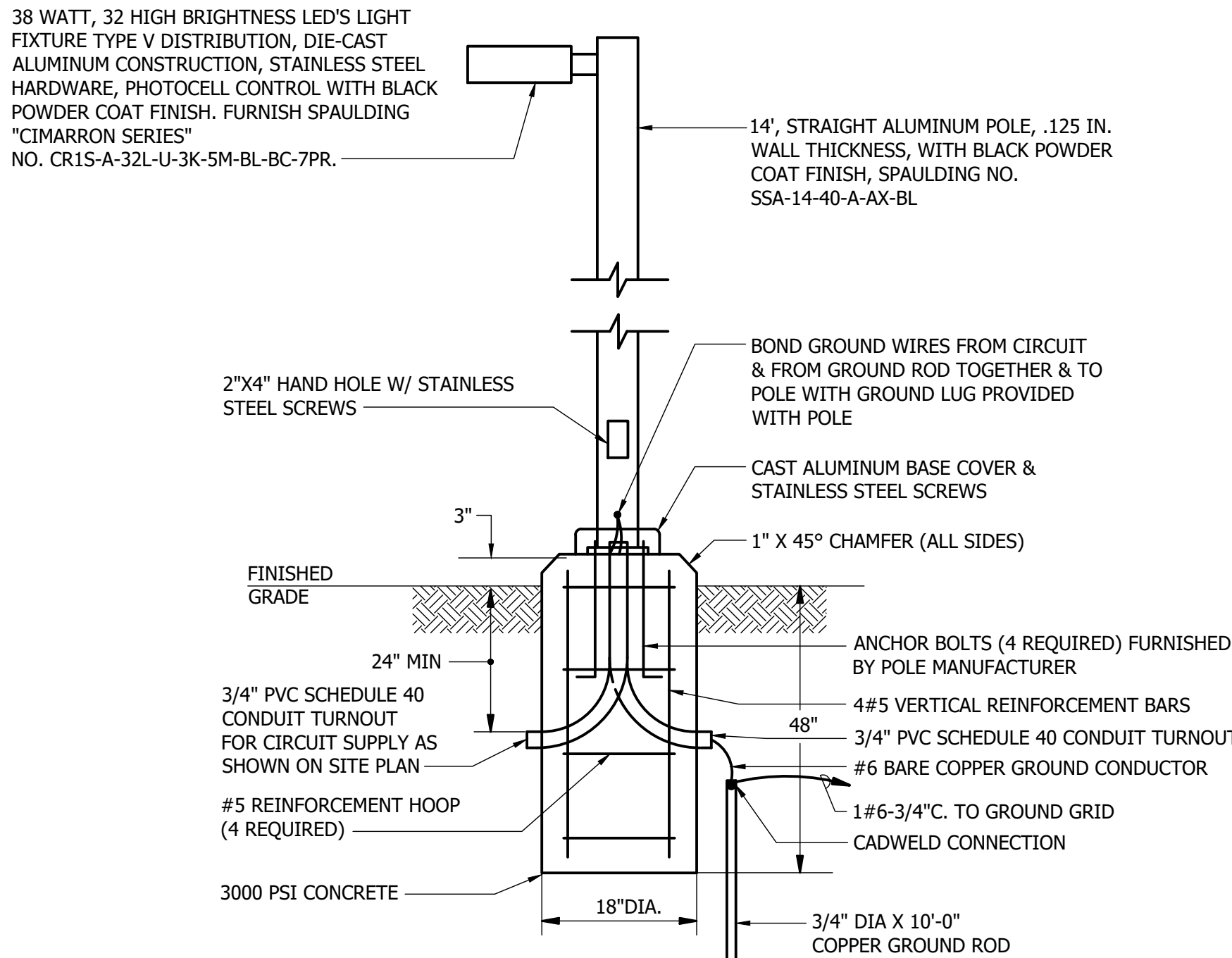
1. POLE HEIGHT SHALL BE 20'.
2. POLE SHALL BE HINGED ALUMINUM.
3. MOUNTING STUDS SHALL BE POURED INTO CONCRETE BASE PER MANUFACTURERS RECOMMENDATIONS. LAGS OR DRIVE PINS WILL NOT BE PERMITTED.
4. FURNISH LITHONIA LIGHTING POLE NO. RSAH 205C, OR EQUAL.

3/8" THICK ALUMINUM BACKPLATE (4" MIN. WIDTH x 3' MIN. HEIGHT, EXACT SIZE TO SUIT EQUIPMENT), SECURELY BOLT TO HORIZONTAL SUPPORT CHANNELS.

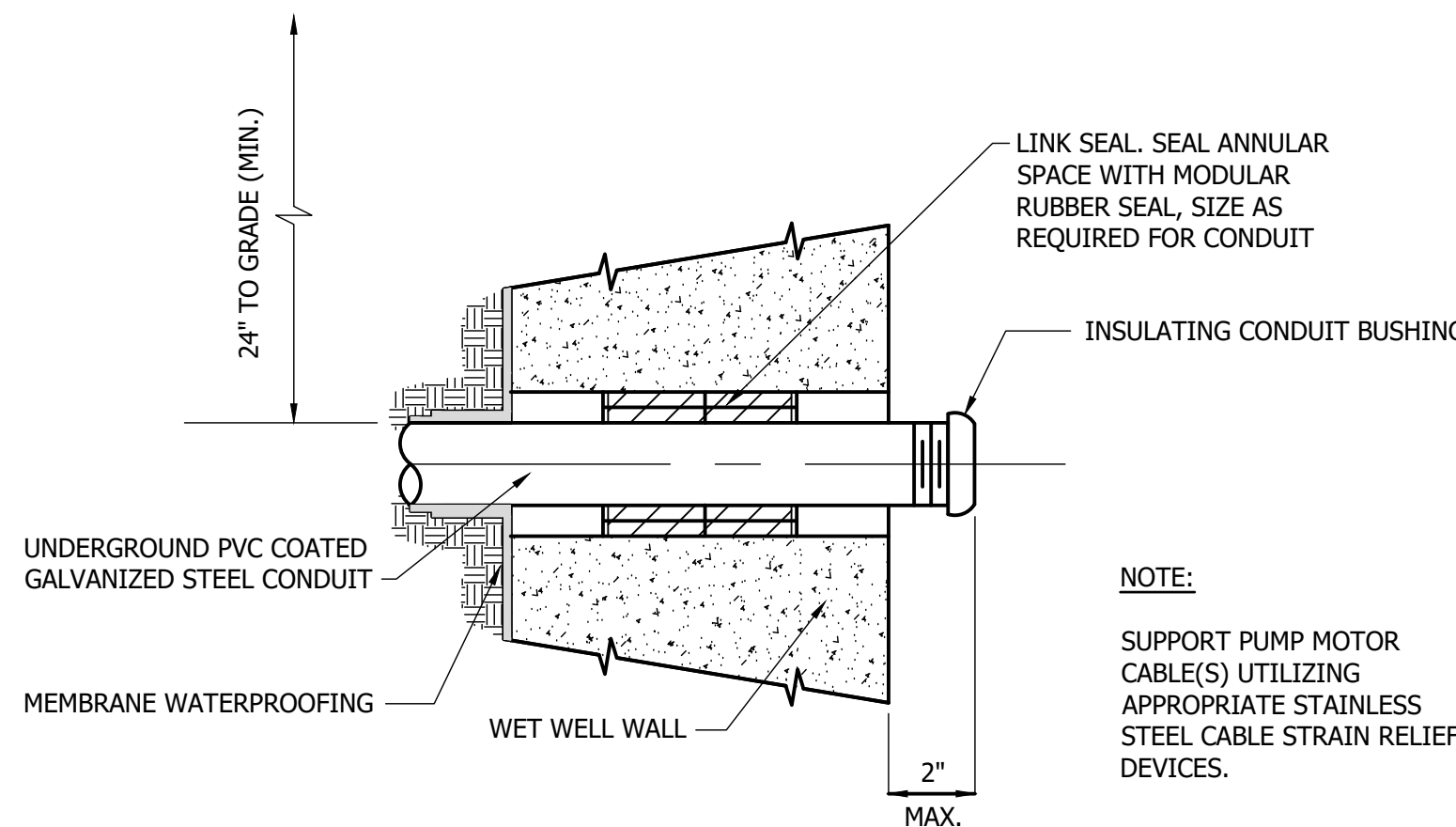


DETAIL - EQUIPMENT MOUNTING PEDESTAL
NO SCALE

NOTE:
BACK TO FACE TOWARDS WET WELL,
FRONT TOWARDS THE S.E.C.

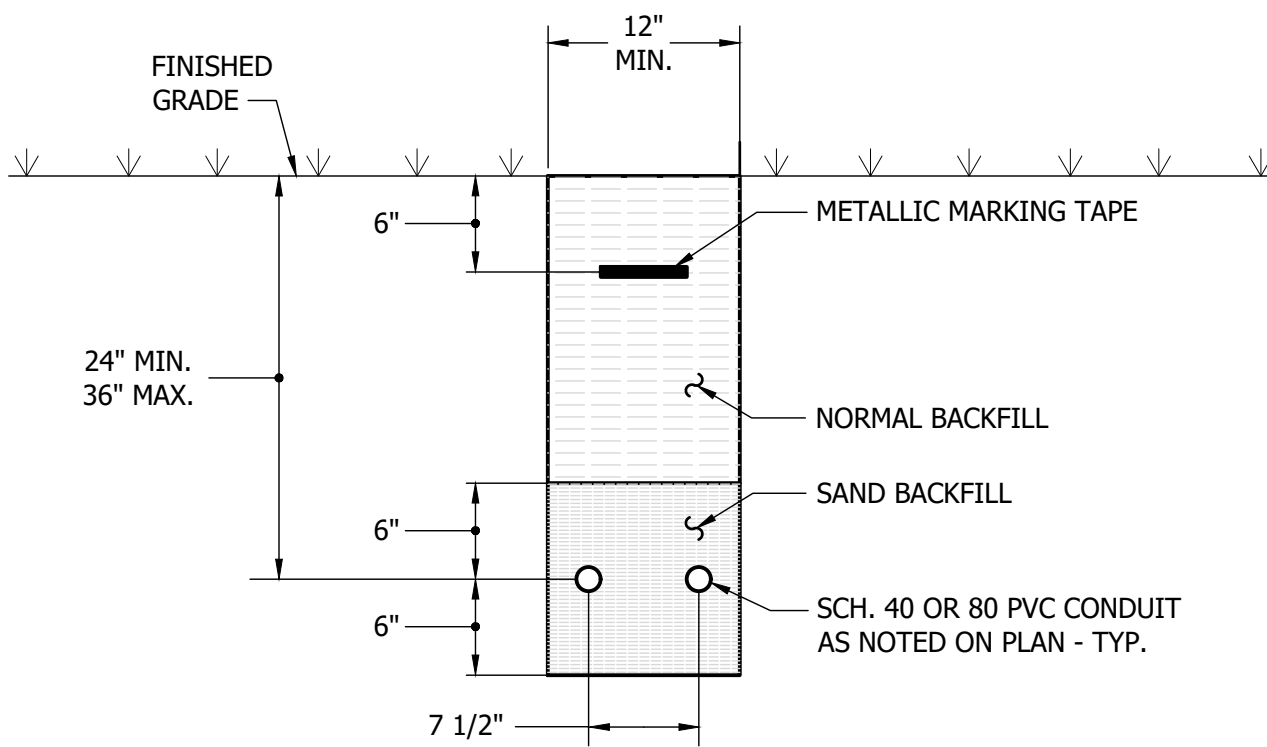


**DETAIL - LIGHT FIXTURE AND
POLE/FOUNDATION**
SCALE: NONE



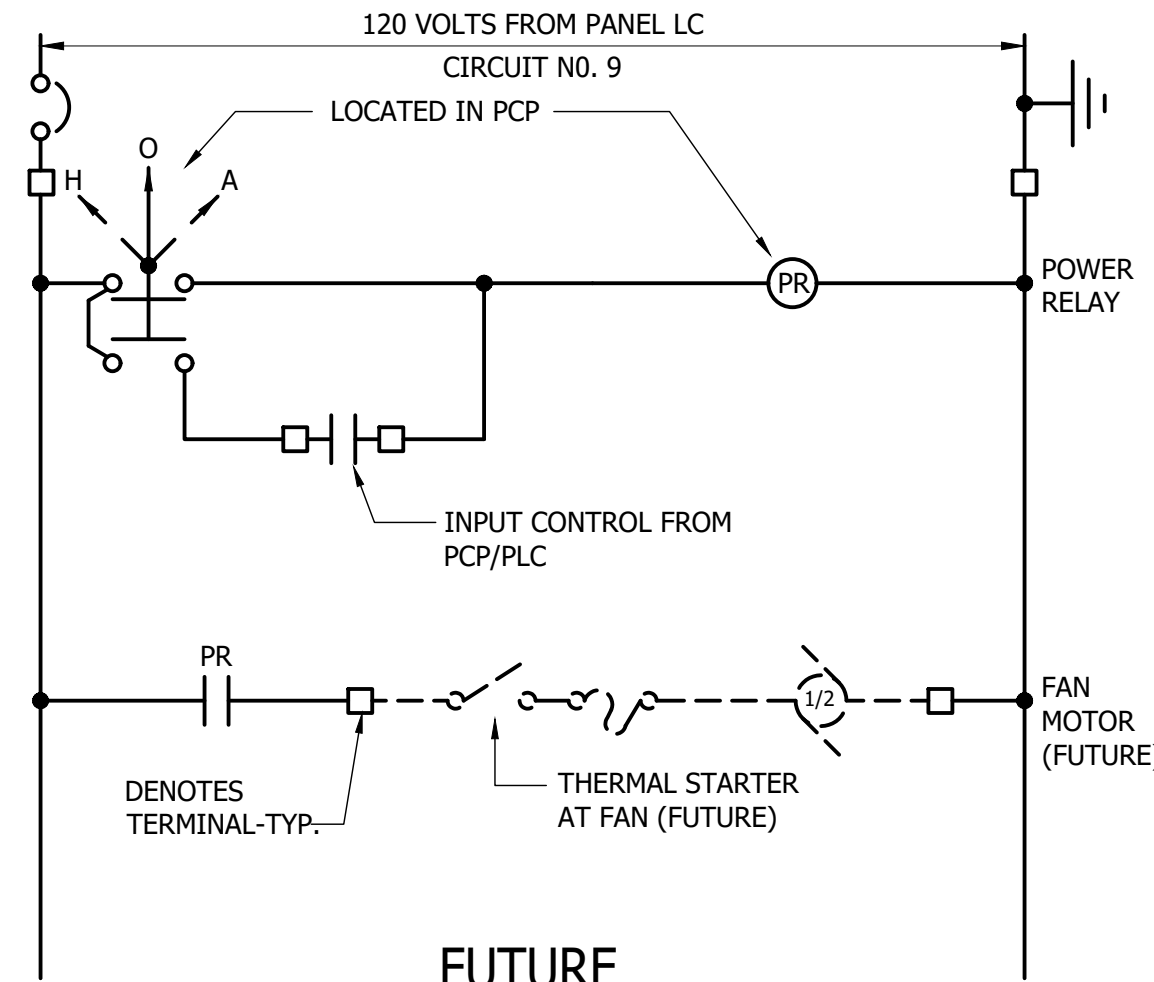
NOTE:
SUPPORT PUMP MOTOR
CABLE(S) UTILIZING
APPROPRIATE STAINLESS
STEEL CABLE STRAIN RELIEF
DEVICES.

**TYPICAL WET WELL ELECTRICAL
CONDUIT ENTRY DETAIL**
NOT TO SCALE

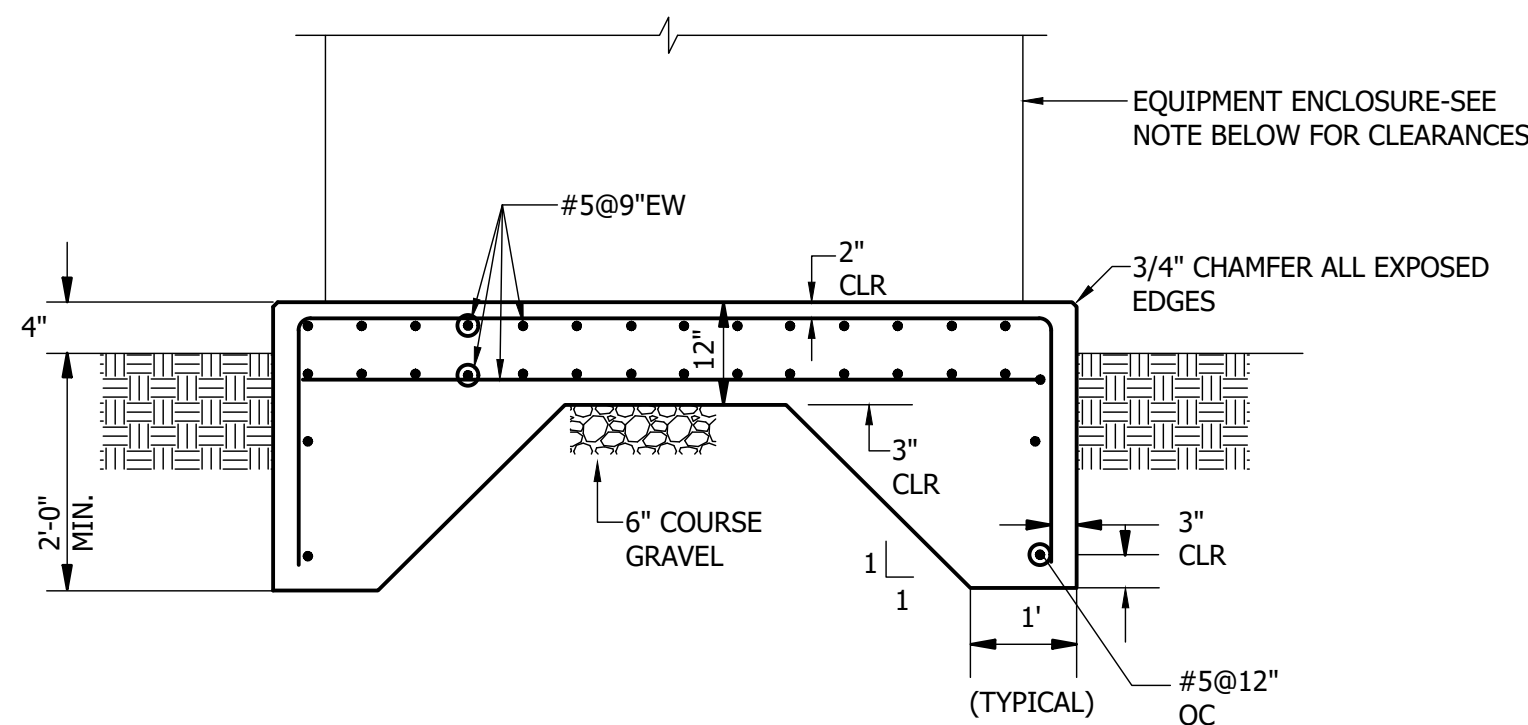


**UNDERGROUND PVC CONDUIT
INSTALLATION DETAIL**
NOT TO SCALE

PANEL SCHEDULE : "LC" 240/120V., 1 PHASE, 3 WIRE									
		100 A. BUS CAPACITY					50 A. MAIN BREAKER		
CIRC. NO.	FOR	FRM.	P	TRIP	CIRC. NO.	FOR	FRM.	P	TRIP
1	S.E.C. LIGHTS	100	1	20	2	PCP	100	1	20
3	S.E.C. RECEPTACLE	100	1	20	4	AUTO DIALER	100	1	20
5	S.E.C. HEATERS	100	1	20	6	GEN. BLOCK HEATER	100	1	20
7	S.E.C. COOLING FANS	100	1	20	8	GEN. BATTERY CHARGER	100	1	20
9	W.W. VENT FAN (FUTURE)	100	1	20	10	SITE LIGHTS	100	1	20
11	FLOW MTRG. SYS.	100	1	20	12	SPARE	100	1	20
13	VALVE ENCL. HEATER	100	1	20	14	SPARE	100	1	20
15	VALVE ENCL. HEATER	100	1	20	16	SPACE W/BUS	-	1	-



**FUTURE
WET WELL VENTILATION
FAN CONTROL DIAGRAM**

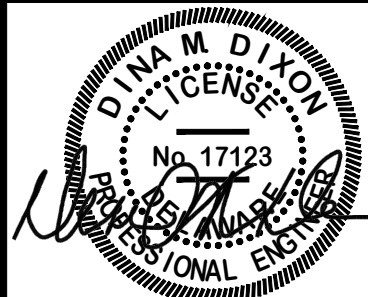


**DETAIL - TYPICAL GENERATOR/SERVICE EQUIPMENT
CONCRETE PAD**
SCALE: NONE

CLEARANCES:

1. GENERATOR - 12" ON ALL SIDES.
2. SERVICE EQUIPMENT CABINET - 3'-0" ON CONTROL SIDE & POWER SIDE; 6" ON BOTH ENDS.
3. SECURE GENERATOR TO PAD (WITH STAINLESS STEEL ANCHOR BOLT ASSEMBLIES) AS RECOMMENDED BY THE GENERATOR MANUFACTURER.

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DETAILS, DIAGRAM & SCHEDULE

for
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