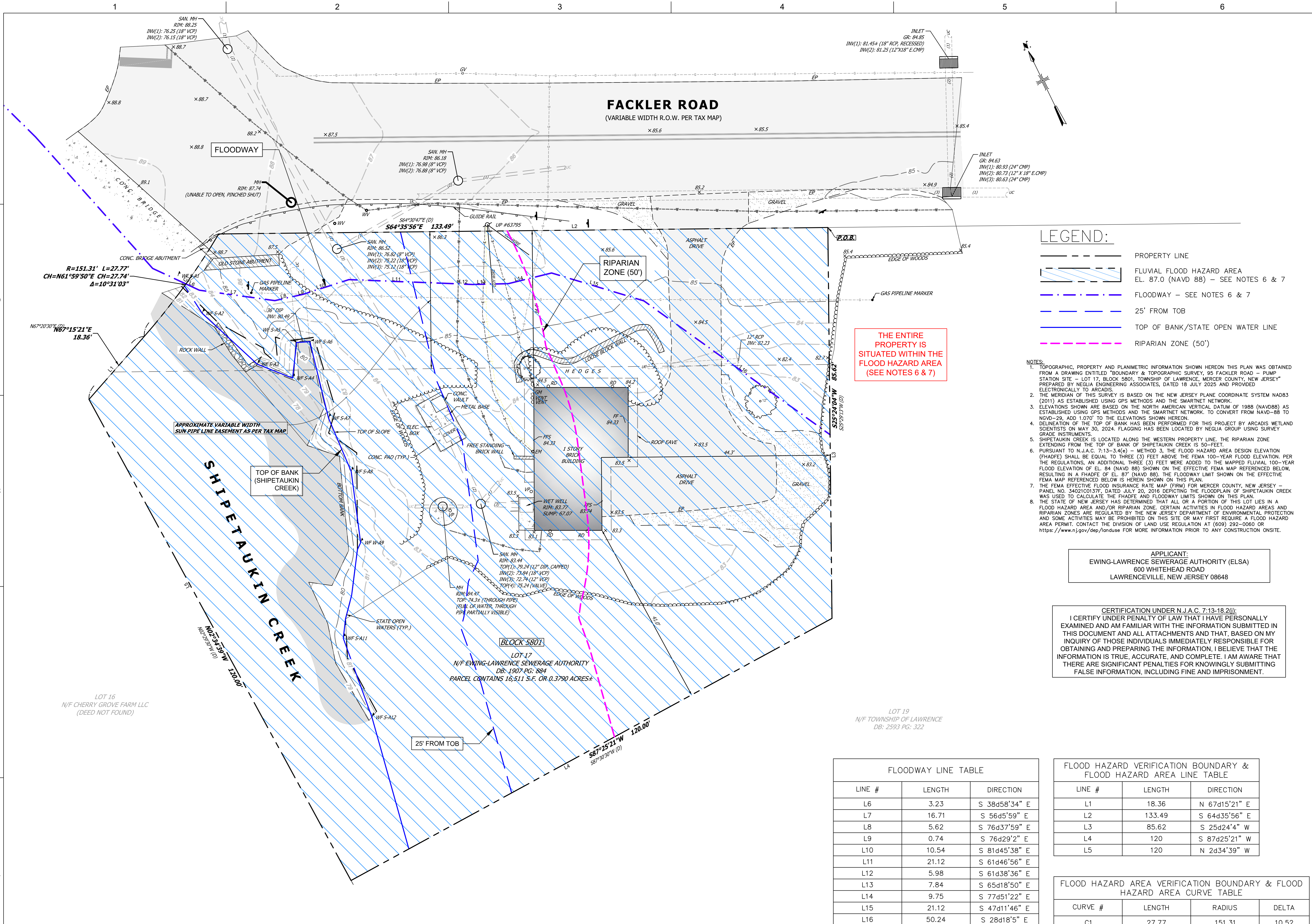




LEGAL ENTITY:
ARCADIS U.S., INC.

CONSULTANTS

SEALS

JERRY R. MITCHELL, PE
PE-NJ 24GE02905400

ELSA



FACKLER ROAD
AND LOWER FERRY
ROAD PUMP
STATIONS
REPLACEMENTS

CLIENT PROJ. NO.:

REVISIONS			
01	4/30/2026	NJDEP PERMITS	JRM
NO.	DATE	ISSUED FOR	BY
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PROJECT STATUS: FINAL

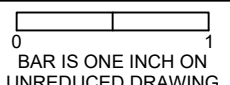
PROJECT NO.:	30219731
DATE:	SEPTEMBER 2025
DESIGNED BY:	F. BELARDO
DRAWN BY:	C. AMUNDSON
CHECKED BY:	J. R. MITCHELL

SHEET TITLE

PERMITTING
FACKLER ROAD

NJDEP FLOOD HAZARD
AREA VERIFICATION
PLAN - EXISTING
CONDITIONS

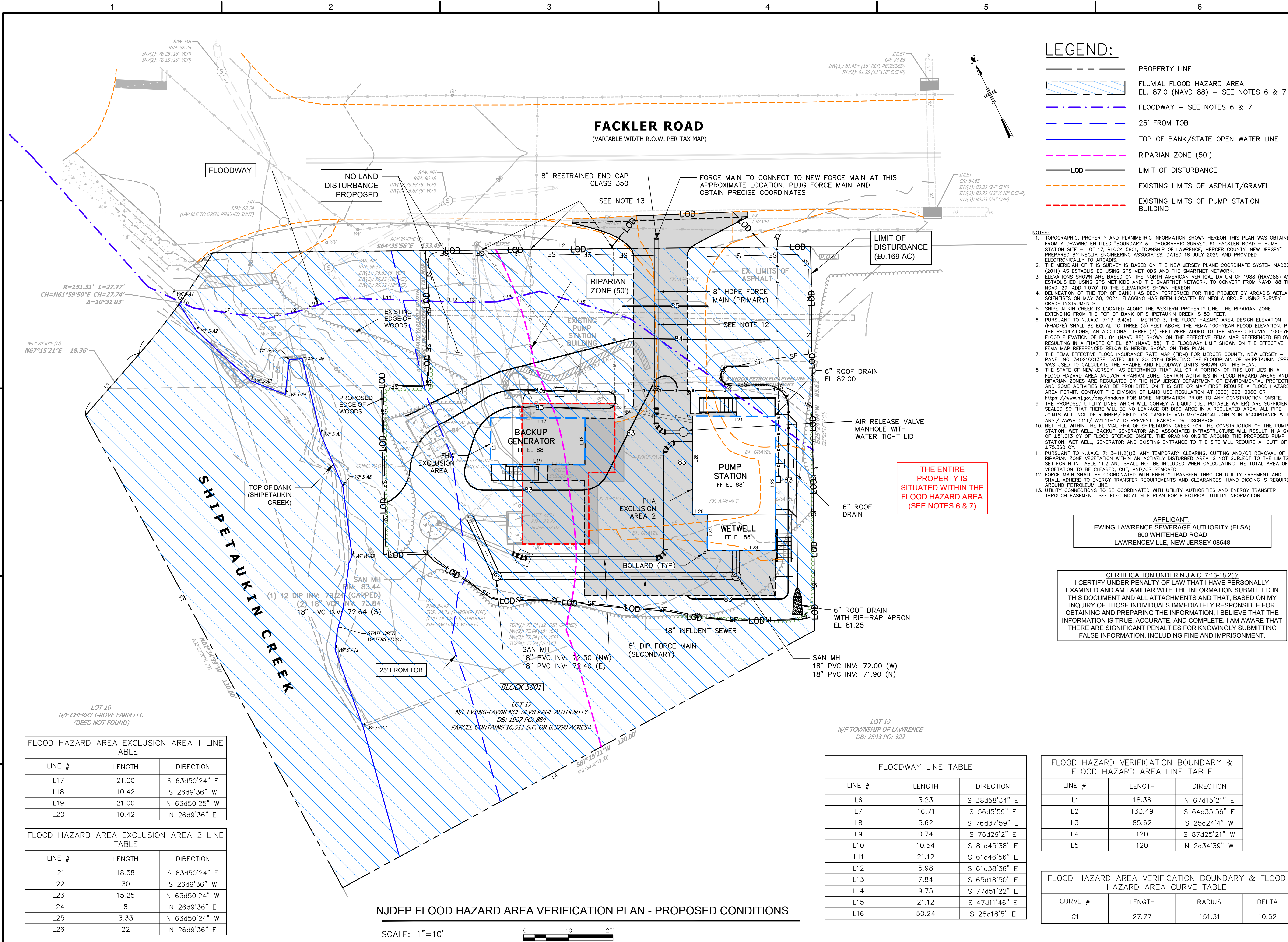
SCALE:



DRAWING NO.:

WF-101

SHEET NO.: 1 OF 1



- LEGEND:
- PROPERTY LINE
 - FLUVIAL FLOOD HAZARD AREA
EL. 87.0 (NAVD 88) – SEE NOTES 6 & 7
 - FLOODWAY – SEE NOTES 6 & 7
 - 25' FROM TOB
 - TOP OF BANK/STATE OPEN WATER LINE
 - RIPARIAN ZONE (50')
 - LOD
 - LIMIT OF DISTURBANCE
 - EXISTING LIMITS OF ASPHALT/GRAVEL
 - EXISTING LIMITS OF PUMP STATION BUILDING

- NOTES:
- TOPOGRAPHIC, PROPERTY AND PLANIMETRIC INFORMATION SHOWN HEREON THIS PLAN WAS OBTAINED FROM A DRAWING ENTITLED "BOUNDARY & TOPOGRAPHIC SURVEY, 95 FACKLER ROAD – PUMP STATION SITE – LOT 17, BLOCK 5801, TOWNSHIP OF LAWRENCE, MERCER COUNTY, NEW JERSEY" PREPARED BY NEGLIA ENGINEERING ASSOCIATES, DATED 18 JULY 2025 AND PROVIDED ELECTRONICALLY TO ARCADIS.
 - THE MERIDIAN OF THIS SURVEY IS BASED ON THE NEW JERSEY PLANE COORDINATE SYSTEM NAD83 (2011) AS ESTABLISHED USING GPS METHODS AND THE SMARTNET NETWORK.
 - ELEVATIONS SHOWN ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) AS ESTABLISHED USING GPS METHODS AND THE SMARTNET NETWORK. TO CONVERT FROM NAVD-88 TO NGVD-29, ADD 1.070' TO THE ELEVATIONS SHOWN HEREON.
 - DELINEATION OF THE TOP OF BANK HAS BEEN PERFORMED FOR THIS PROJECT BY ARCADIS WETLAND SCIENTISTS ON MAY 30, 2024. FLAGGING HAS BEEN LOCATED BY NEGLIA GROUP USING SURVEY GRADE INSTRUMENTS.
 - SHIPETAUKIN CREEK IS LOCATED ALONG THE WESTERN PROPERTY LINE. THE RIPARIAN ZONE EXTENDING FROM THE TOP OF BANK OF SHIPETAUKIN CREEK IS 50-FEET.
 - PURSUANT TO N.J.A.C. 7:13-3.4(g) METHOD 3, THE FLOOD HAZARD AREA DESIGN ELEVATION (FHAE) SHALL BE EQUAL TO THREE (3) FEET ABOVE THE FEMA 100-YEAR FLOOD ELEVATION. PER THE REGULATIONS, AN ADDITIONAL THREE (3) FEET WERE ADDED TO THE MAPPED FLUVIAL 100-YEAR FLOOD ELEVATION OF EL. 84 (NAVD 88) SHOWN ON THE EFFECTIVE FEMA MAP REFERENCED BELOW, RESULTING IN A FHAE OF EL. 87 (NAVD 88). THE FLOODWAY LIMIT SHOWN ON THE EFFECTIVE FEMA MAP REFERENCED BELOW IS HEREIN SHOWN ON THIS PLAN.
 - THE FEMA EFFECTIVE FLOOD INSURANCE RATE MAP (FIRM) FOR MERCER COUNTY, NEW JERSEY – PANEL NO. 3402C037P, DATED JULY 20, 2016 (DEPICTING THE FLOODPLAIN OF SHIPETAUKIN CREEK WAS USED TO CALCULATE THE FHAE AND FLOODWAY LIMITS SHOWN ON THIS PLAN.
 - THE STATE OF NEW JERSEY HAS DETERMINED THAT ALL OR A PORTION OF THIS LOT LIES IN A FLOOD HAZARD AREA AND/OR RIPARIAN ZONE. CERTAIN ACTIVITIES IN FLOOD HAZARD AREAS AND RIPARIAN ZONES ARE REGULATED BY THE NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION AND SOME ACTIVITIES MAY BE PROHIBITED ON THIS SITE OR MAY FIRST REQUIRE A FLOOD HAZARD AREA PERMIT. CONTACT THE DIVISION OF LAND USE REGULATION AT (609) 292-0060 OR <https://www.nj.gov/dep/landuse> FOR MORE INFORMATION PRIOR TO ANY CONSTRUCTION ONSITE.
 - THE PROPOSED UTILITY LINES WHICH WILL CONVEY A LIQUID (I.E. POTABLE WATER) ARE SUFFICIENTLY SEALED SO THAT THERE WILL BE NO LEAKAGE OR DISCHARGE IN A REGULATED AREA. ALL PIPE JOINTS WILL INCLUDE RUBBER/ FIELD LOK GASKETS AND MECHANICAL JOINTS IN ACCORDANCE WITH ANSI/ AWWA C111/ A21.11-17 TO PREVENT LEAKAGE OR DISCHARGE.
 - NET-FILL WITHIN THE FLUVIAL FHA OF SHIPETAUKIN CREEK FOR THE CONSTRUCTION OF THE PUMP STATION, WET WELL, BACKUP GENERATOR AND ASSOCIATED INFRASTRUCTURE WILL RESULT IN A GAIN OF ±51.013 CY OF FLOOD STORAGE ONSITE. THE GRADING ONSITE AROUND THE PROPOSED PUMP STATION, WET WELL, GENERATOR AND EXISTING ENTRANCE TO THE SITE WILL REQUIRE A "CUT" OF ±75.360 CY.
 - PURSUANT TO N.J.A.C. 7:13-11.2(f)(3), ANY TEMPORARY CLEARING, CUTTING AND/OR REMOVAL OF RIPARIAN ZONE VEGETATION WITHIN AN ACTIVELY DISTURBED AREA IS NOT SUBJECT TO THE LIMITS SET FORTH IN TABLE 11.2 AND SHALL NOT BE INCLUDED WHEN CALCULATING THE TOTAL AREA OF VEGETATION TO BE CLEARED, CUT, AND/OR REMOVED.
 - FORCE MAIN SHALL BE COORDINATED WITH ENERGY TRANSFER THROUGH UTILITY EASEMENT AND SHALL ADHERE TO ENERGY TRANSFER REQUIREMENTS AND CLEARANCES. HAND DIGGING IS REQUIRED AROUND PETROLEUM LINE.
 - UTILITY CONNECTIONS TO BE COORDINATED WITH UTILITY AUTHORITIES AND ENERGY TRANSFER THROUGH EASEMENT. SEE ELECTRICAL SITE PLAN FOR ELECTRICAL UTILITY INFORMATION.

APPLICANT:
EWING-LAWRENCE SEWERAGE AUTHORITY (ELSA)
600 WHITEHEAD ROAD
LAWRENCEVILLE, NEW JERSEY 08648

CERTIFICATION UNDER N.J.A.C. 7:13-18.2(i):
I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED IN THIS DOCUMENT AND ALL ATTACHMENTS AND THAT, BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING AND PREPARING THE INFORMATION, I BELIEVE THAT THE INFORMATION IS TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR KNOWINGLY SUBMITTING FALSE INFORMATION, INCLUDING FINE AND IMPRISONMENT.

FLOOD HAZARD AREA EXCLUSION AREA 1 LINE TABLE		
LINE #	LENGTH	DIRECTION
L17	21.00	S 63d50'24" E
L18	10.42	S 26d9'36" W
L19	21.00	N 63d50'25" W
L20	10.42	N 26d9'36" E

FLOOD HAZARD AREA EXCLUSION AREA 2 LINE TABLE		
LINE #	LENGTH	DIRECTION
L21	18.58	S 63d50'24" E
L22	30	S 26d9'36" W
L23	15.25	N 63d50'24" W
L24	8	N 26d9'36" E
L25	3.33	N 63d50'24" W
L26	22	N 26d9'36" E

FLOODWAY LINE TABLE		
LINE #	LENGTH	DIRECTION
L6	3.23	S 38d58'34" E
L7	16.71	S 56d5'59" E
L8	5.62	S 76d37'59" E
L9	0.74	S 76d29'2" E
L10	10.54	S 81d45'38" E
L11	21.12	S 61d46'56" E
L12	5.98	S 61d38'36" E
L13	7.84	S 65d18'50" E
L14	9.75	S 77d51'22" E
L15	21.12	S 47d11'46" E
L16	50.24	S 28d18'5" E

FLOOD HAZARD VERIFICATION BOUNDARY & FLOOD HAZARD AREA LINE TABLE		
LINE #	LENGTH	DIRECTION
L1	18.36	N 67d15'21" E
L2	133.49	S 64d35'56" E
L3	85.62	S 25d24'4" W
L4	120	S 87d25'21" W
L5	120	N 2d34'39" W

FLOOD HAZARD AREA VERIFICATION BOUNDARY & FLOOD HAZARD AREA CURVE TABLE			
CURVE #	LENGTH	RADIUS	DELTA
C1	27.77	151.31	10.52

NJDEP FLOOD HAZARD AREA VERIFICATION PLAN - PROPOSED CONDITIONS

SCALE: 1"=10'

0 10' 20'



LEGAL ENTITY:
ARCADIS U.S., INC.

CONSULTANTS

SEALS

JERRY R. MITCHELL, PE
PE-NJ 24GE02905400

ELSA



FACKLER ROAD
AND LOWER FERRY
ROAD PUMP
STATIONS
REPLACEMENTS

CLIENT PROJ. NO.:

REVISIONS			
NO.	DATE	ISSUED FOR	BY
01	4/30/2026	NJDEP PERMITS	JRM

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2024

PROJECT STATUS: FINAL

PROJECT NO.: 30219731
DATE: SEPTEMBER 2025
DESIGNED BY: F. BELARDO
DRAWN BY: C. AMUNDSON
CHECKED BY: J. R. MITCHELL

SHEET TITLE

PERMITTING
FACKLER ROAD

NJDEP FLOOD HAZARD
AREA VERIFICATION
PLAN - PROPOSED
CONDITIONS

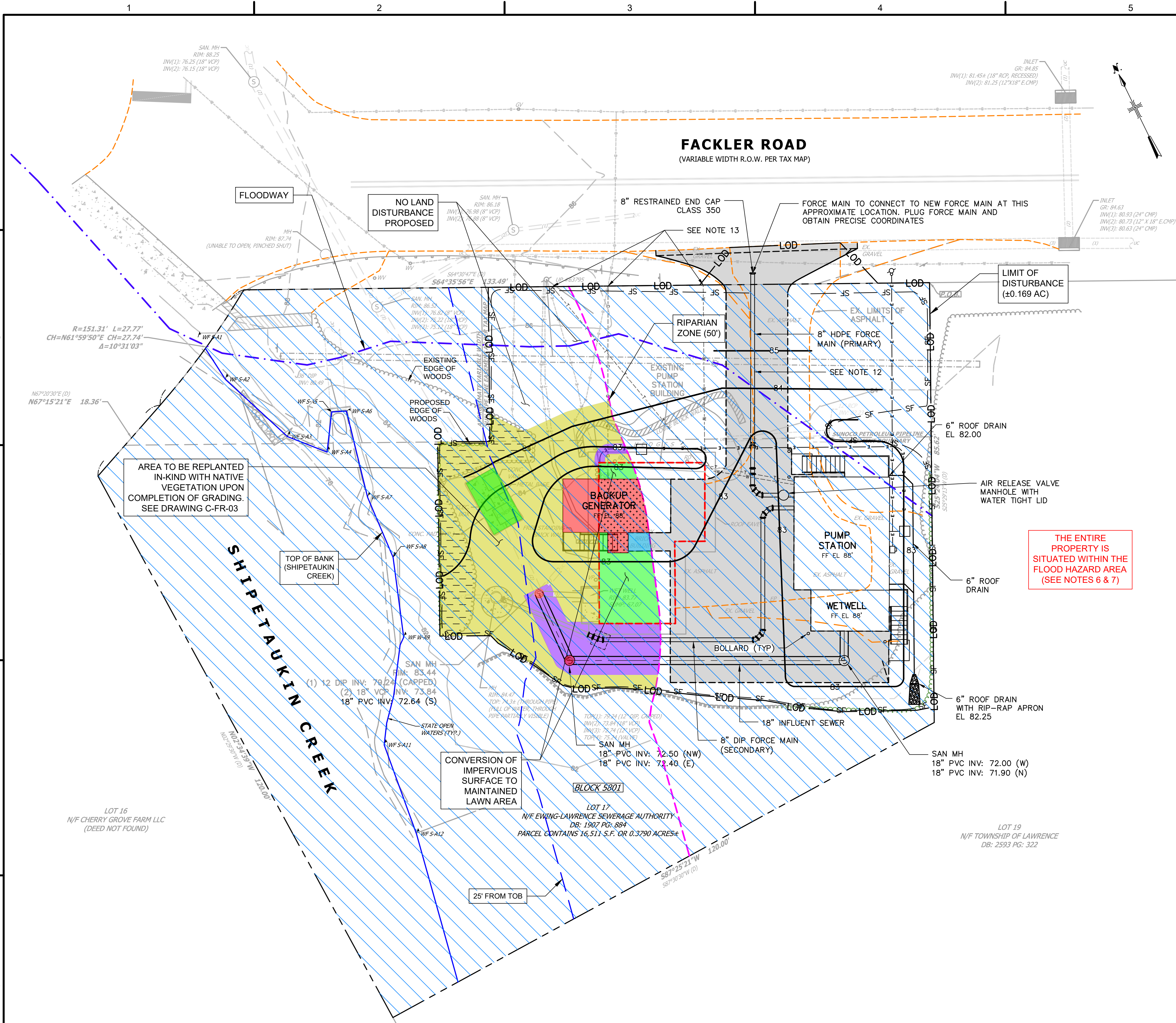
SCALE:
AS SHOWN

0 10' 20'
1"=10'
BAR IS ONE INCH ON UNREDUCED DRAWING

DRAWING NO.:

WF-102

SHEET NO.: 1 OF 1



LEGEND:

- PROPERTY LINE
- FLUVIAL FLOOD HAZARD AREA
EL. 87.0 (NAVD 88) – SEE NOTES 6 & 7
- FLOODWAY – SEE NOTES 6 & 7
- TOP OF BANK/STATE OPEN WATER LINE
- RIPARIAN ZONE (50')
- LOD
- LIMIT OF DISTURBANCE
- EXISTING LIMITS OF ASPHALT/GRAVEL
- EXISTING LIMITS OF PUMP STATION BUILDING
- TEMPORARY IMPACTS TO ACTIVELY DISTURBED RIPARIAN ZONE PURSUANT TO N.J.A.C. 7:13–11.2(F)1
"IMPERVIOUS–TO–IMPERVIOUS" FOR RECONSTRUCTED ASPHALT DRIVE NOT CROSSING A WATER: 16 SF (<0.001 AC)
- * TEMPORARY IMPACTS TO ACTIVELY DISTURBED RIPARIAN ZONE PURSUANT TO N.J.A.C. 7:13–11.2(K) FOR NEW UTILITY LINES: 251 SF (0.006 AC) (SEE NOTE 11)
- PERMANENT IMPACTS TO ACTIVELY DISTURBED RIPARIAN ZONE PURSUANT TO N.J.A.C. 7:13–11.2(Y) FOR CONSTRUCTION OF BUILDING AND MANHOLES: 79 SF (0.002 AC). NET IMPACT: 0 SF PER 11.2(F)4 CREDIT BELOW
- TEMPORARY IMPACTS TO ACTIVELY DISTURBED RIPARIAN ZONE PURSUANT TO N.J.A.C. 7:13–11.2(F)1
"IMPERVIOUS–TO–IMPERVIOUS" FOR CONSTRUCTION OF BUILDING AND STAIRS: 108 SF (0.003 AC)
- * TEMPORARY IMPACTS TO ACTIVELY DISTURBED RIPARIAN ZONE PURSUANT TO N.J.A.C. 7:13–11.2(F)3; FOR CONSTRUCTION ACCESS AND GRADING: 940 SF (0.022 AC) (SEE NOTE 11)
- PERMANENT IMPACTS TO SCRUB–SHRUB/FORESTRY COVER RIPARIAN ZONE PURSUANT TO N.J.A.C. 7:13–11.2(Y) FOR CONSTRUCTION ACCESS AND GRADING: 256 SF (0.006 AC)
- RIPARIAN ZONE RESTORATION AREA: CONVERSION FROM IMPERVIOUS COVERAGE TO MAINTAINED LAWN AREA: 256 SF (0.006 AC). AREA TO BE APPLIED AS CREDIT TO PERMANENT IMPACTS WITHIN ACTIVELY DISTURBED LAWN AREA PER NJAC 7:13–11.2(F)4

- NOTES:**
- TOPOGRAPHIC, PROPERTY AND PLANIMETRIC INFORMATION SHOWN HEREON THIS PLAN WAS OBTAINED FROM A DRAWING ENTITLED "BOUNDARY & TOPOGRAPHIC SURVEY, 95 FACKLER ROAD – PUMP STATION SITE LOT 17, BLOCK 5801, TOWNSHIP OF LAWRENCE, MERCER COUNTY, NEW JERSEY" PREPARED BY NEGIA ENGINEERING ASSOCIATES, DATED 18 JULY 2025 AND PROVIDED ELECTRONICALLY TO ARCADIS.
 - THE MERIDIAN OF THIS SURVEY IS BASED ON THE NEW JERSEY PLANE COORDINATE SYSTEM NAD83 (2011) AS ESTABLISHED USING GPS METHODS AND THE SMARTNET NETWORK.
 - ELEVATIONS SHOWN ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) AS ESTABLISHED USING GPS METHODS AND THE SMARTNET NETWORK. TO CONVERT FROM NAVD–88 TO NGVD–29, ADD 1.070' TO THE ELEVATIONS SHOWN ON THIS PLAN.
 - DELINEATION FOR WETLANDS AND STATE OPEN WATERS HAS BEEN PERFORMED FOR THIS PROJECT BY ARCADIS WETLAND SCIENTISTS ON MAY 30, 2024. FLAGGING HAS BEEN LOCATED BY NEGIA GROUP USING SURVEY GRADE INSTRUMENTS.
 - SHIPETAUKIN CREEK IS LOCATED ALONG THE WESTERN PROPERTY LINE. THE RIPARIAN ZONE EXTENDING FROM THE TOP OF BANK OF SHIPETAUKIN CREEK IS 50'-FEET.
 - PURSUANT TO N.J.A.C. 7:13–3.4(e) WITHIN THE FLOOD HAZARD AREA DESIGN ELEVATION (FHAE) SHALL BE EQUAL TO THREE (3) FEET ABOVE THE FEMA 100–YEAR FLOOD ELEVATION. PER THE REGULATIONS, AN ADDITIONAL THREE (3) FEET WERE ADDED TO THE MAPPED FLUVIAL 100–YEAR FLOOD ELEVATION OF EL. 84 (NAVD 88) SHOWN ON THE EFFECTIVE FEMA MAP REFERENCED BELOW, RESULTING IN A FHAE OF EL. 87 (NO 89 88). THE FLOODWAY LIMIT SHOWN ON THE EFFECTIVE FEMA MAP REFERENCED BELOW IS HEREIN SHOWN ON THIS PLAN.
 - THE FEMA EFFECTIVE FLOOD INSURANCE RATE MAP (FIRM) FOR MERCER COUNTY, NEW JERSEY – PANEL NO. 340200157F, DATED JULY 2016, DESIGNATING THE FLOODPLAIN OF SHIPETAUKIN CREEK WAS USED TO CALCULATE THE FHAE AND FLOODWAY LIMITS SHOWN ON THIS PLAN.
 - THE STATE OF NEW JERSEY HAS DETERMINED THAT ALL OR A PORTION OF THIS LOT LIES IN A FLOOD HAZARD AREA AND/OR RIPARIAN ZONE. CERTAIN ACTIVITIES IN FLOOD HAZARD AREAS AND RIPARIAN ZONES ARE REGULATED BY THE NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION AND SOME ACTIVITIES MAY BE PROHIBITED ON THIS SITE OR MAY FIRST REQUIRE A FLOOD HAZARD AREA PERMIT. CONTACT THE DIVISION OF LAND USE REGULATION AT (609) 292–0060 OR <https://www.nj.gov/dcp/landuse> FOR MORE INFORMATION PRIOR TO ANY CONSTRUCTION ONSITE.
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 - NET–FILL WITHIN THE FLUVIAL FHA OF SHIPETAUKIN CREEK FOR THE CONSTRUCTION OF THE PUMP STATION, WET WELL, BACKUP GENERATOR AND ASSOCIATED INFRASTRUCTURE WILL RESULT IN A GAIN OF 451.013 CY OF FLOOD STORAGE ONSITE. THE GRADING ONSITE AROUND THE PROPOSED PUMP STATION, WET WELL, GENERATOR AND EXISTING ENTRANCE TO THE SITE WILL REQUIRE A "CUT" OF 275.360 CY.
 - PURSUANT TO N.J.A.C. 7:13–11.2(f)3, ANY TEMPORARY CLEARING, CUTTING AND/OR REMOVAL OF RIPARIAN ZONE VEGETATION WITHIN AN ACTIVELY DISTURBED AREA IS NOT SUBJECT TO THE LIMITS SET FORTH IN TABLE 11.2 AND SHALL NOT BE INCLUDED WHEN CALCULATING THE TOTAL AREA OF VEGETATION TO BE CLEARED, CUT, AND/OR REMOVED.
 - FORCE MAIN SHALL BE COORDINATED WITH ENERGY TRANSFER THROUGH UTILITY EASEMENT AND SHALL ADHERE TO ENERGY TRANSFER REQUIREMENTS AND CLEARANCES. HAND DIGGING IS REQUIRED AROUND PETROLEUM LINE.
 - UTILITY CONNECTIONS TO BE COORDINATED WITH UTILITY AUTHORITIES AND ENERGY TRANSFER THROUGH EASEMENT. SEE ELECTRICAL SITE PLAN FOR ELECTRICAL UTILITY INFORMATION.

APPLICANT:
EWING-LAWRENCE SEWERAGE AUTHORITY (ELSA)
600 WHITEHEAD ROAD
LAWRENCEVILLE, NEW JERSEY 08648

CERTIFICATION UNDER N.J.A.C. 7:13-18.2(i):
I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED IN THIS DOCUMENT AND ALL ATTACHMENTS AND THAT, BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING AND PREPARING THE INFORMATION, I BELIEVE THAT THE INFORMATION IS TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR KNOWINGLY SUBMITTING FALSE INFORMATION, INCLUDING FINE AND IMPRISONMENT.

LEGAL ENTITY:
ARCADIS U.S., INC.

CONSULTANTS

SEALS

JERRY R. MITCHELL, PE
PE-NJ 24GE02905400

ELSA

FACKLER ROAD
AND LOWER FERRY
ROAD PUMP
STATIONS
REPLACEMENTS

CLIENT PROJ. NO.:

REVISIONS			
NO.	DATE	ISSUED FOR	BY
01	4/30/2026	NJDEP PERMITS	JRM

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2024

PROJECT STATUS: FINAL

PROJECT NO.: 30219731

DATE: NOVEMBER 2025

DESIGNED BY: F. BELARDO

DRAWN BY: C. AMUNDSON

CHECKED BY: J. R. MITCHELL

SHEET TITLE

PERMITTING
FACKLER ROAD

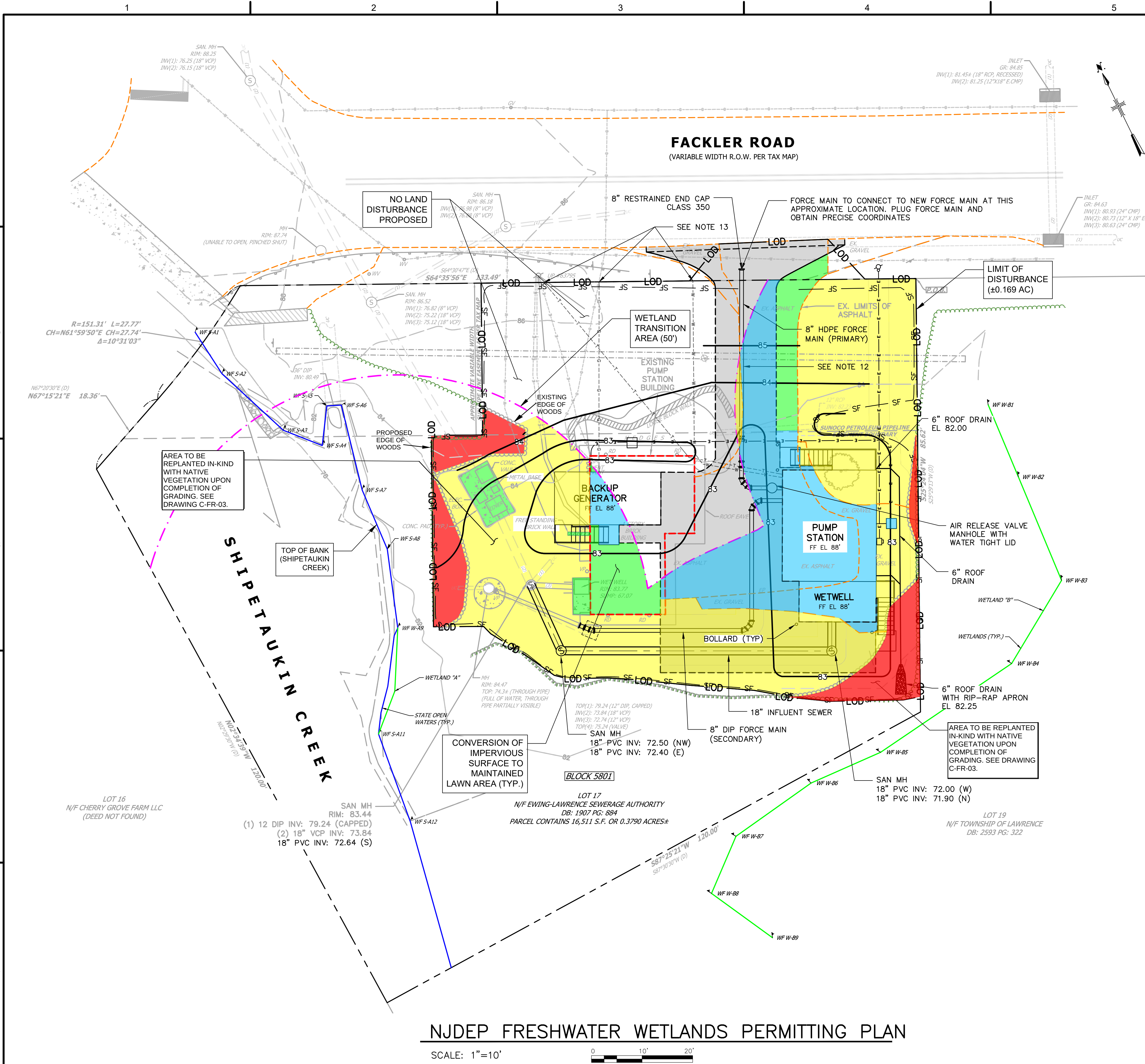
NJDEP FLOOD HAZARD
AREA PERMITTING PLAN

SCALE:

AS SHOWN

DRAWING NO.: WP-101

SHEET NO.: 1 OF 1



LEGAL ENTITY:
ARCADIS U.S., INC.

CONSULTANTS

SEALS

JERRY R. MITCHELL, PE
PE-NJ 24GE02905400

ELSA



**FACKLER ROAD
AND LOWER FERRY
ROAD PUMP
STATIONS
REPLACEMENTS**

CLIENT PROJ. NO.:

REVISIONS			
01	4/30/2026	NJDEP PERMITS	JRM
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PROJECT NO.:	30219731
DATE:	NOVEMBER 2025
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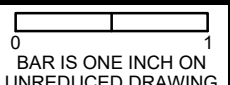
SHEET TITLE

PERMITTING
FACKLER ROAD

**NJDEP FRESHWATER
WETLANDS
PERMITTING PLAN**

SCALE:

AS SHOWN



DRAWING NO.:

WP-201

SHEET NO.: 1 OF 1