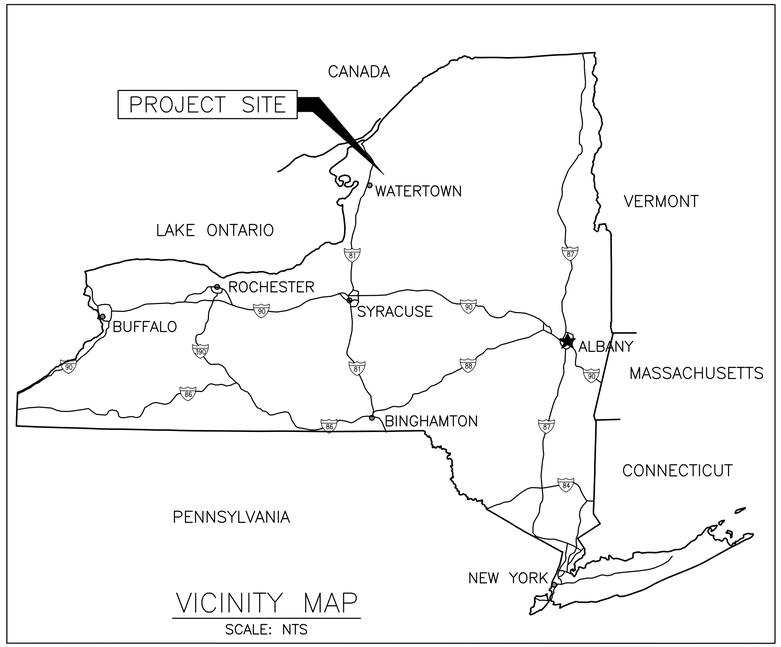
APPENDIX A

RFP DRAWINGS

US Army Corps of Engineers®
New York District

WELLS FIELD EXPANSION DB-RFP
FORT DRUM, NEW YORK



VICINITY MAP
SCALE: NTS

SOLICITATION NO.:
CONTRACT NO.:
ISSUE DATE: 06/09/2026

DRAWING INDEX

DRAWING	TITLE	SHEET NUMBER
G-001	COVER SHEET	1
GA001	CONTRACTOR SITE ACCESS AND CONSTRUCTION LAYDOWN AREA PLAN	2
C-001	CIVIL NOTES, LEGEND, AND ABBREVIATIONS	3
CJ100	EXISTING CONDITIONS DRAWING LAYOUT KEY PLAN	4
CJ101	PLEASANT STREET - EXISTING CONDITIONS STA 100+00 TO 127+50	5
CJ102	PLEASANT STREET - EXISTING CONDITIONS STA 127+50 TO 155+50	6
CJ103	PLEASANT STREET - EXISTING CONDITIONS STA 155+50 TO 183+50	7
CJ104	PLEASANT STREET - EXISTING CONDITIONS STA 183+50 TO 211+50	8
CJ105	PLEASANT STREET - EXISTING CONDITIONS STA 211+50 TO 235+50	9
CJ106	PLEASANT STREET - EXISTING CONDITIONS STA 500+00 TO 525+00	10
CJ107	PLEASANT STREET - EXISTING CONDITIONS STA 525+00 TO 549+00	11
CJ108	PLEASANT STREET - EXISTING CONDITIONS STA 549+00 TO 560+47	12
CJ109	WELL #1 & #5 ACCESS ROAD - EXISTING CONDITIONS	13
CJ110	MAIN TANK TRAIL - EXISTING CONDITIONS STA 300+00 TO 321+00	14
CJ111	MAIN TANK TRAIL - EXISTING CONDITIONS STA 321+00 TO 346+00	15
CJ112	MAIN TANK TRAIL - EXISTING CONDITIONS STA 346+00 TO 372+50	16
CJ113	MAIN TANK TRAIL - EXISTING CONDITIONS STA 372+50 TO 399+00	17
CJ114	MAIN TANK TRAIL - EXISTING CONDITIONS STA 399+00 TO 414+00	18
CJ115	ELM LANE - EXISTING CONDITIONS STA 414+00 TO 438+00	19
CJ116	ELM LANE - EXISTING CONDITIONS STA 438+00 TO 457+01	20
CJ117	NON-DIRECTIONAL RADAR BEACON UTILITY - EXISTING CONDITIONS STA 800+00 TO 824+29	21
C-100	DESIGN DRAWINGS LAYOUT KEY PLAN	22
C-101	PLEASANT STREET - STA 100+00 TO 127+50	23
C-102	PLEASANT STREET - STA 127+50 TO 155+50	24
C-103	PLEASANT STREET - STA 155+50 TO 183+50	25
C-104	PLEASANT STREET - STA 183+50 TO 211+50	26
C-105	PLEASANT STREET - STA 211+50 TO 235+50	27
C-106	PLEASANT STREET - STA 500+00 TO 524+00	28
C-107	PLEASANT STREET - STA 524+00 TO 549+00	29
C-108	PLEASANT STREET - STA 549+00 TO 560+47	30
C-109	WELL 1 AND 5 - WATER MAIN	31
C-110	MAIN TANK TRAIL - STA 300+00 TO 323+50	32
C-111	MAIN TANK TRAIL - STA 323+50 TO 349+50	33
C-112	MAIN TANK TRAIL - STA 349+50 TO 347+50	34
C-113	MAIN TANK TRAIL - STA 374+50 TO 400+00	35
C-114	MAIN TANK TRAIL - STA 400+00 TO 412+00	36
C-115	ELM LANE - STA 412+00 TO 438+00	37
C-116	ELM LANE - STA 438+00 TO 457+01	38
C-117	NON-DIRECTIONAL RADAR BEACON UTILITY - STA 800+00 TO 824+29	39
C-401	WELL #1 - BUILDING SITE	40
C-402	WELL #2 - BUILDING SITE	41
C-403	WELL #3R - BUILDING SITE	42
C-404	WELL #4R - BUILDING SITE	43
C-405	WELL #5 - BUILDING SITE	44
C-406	MAIN TANK TRAIL ENLARGED PLAN - STA 409+00 TO 414+00	45
C-501	ROADWAY AND UTILITY TYPICAL SECTIONS	46
S-001	STRUCTURAL NOTES	47
S-101	STRUCTURAL PLANS	48
S-501	STRUCTURAL DETAILS	49
A-001	GENERAL NOTES, LEGEND AND ABBREVIATIONS	50
A-002	AIR BARRIER AND ENVELOPE REQUIREMENTS	51
A-101	ARCHITECTURAL FLOOR PLAN	52
A-102	WELL HOUSES 2-5 ARCHITECTURAL PLANS	53
A-201	EXTERIOR ELEVATIONS	54
A-501	ARCHITECTURAL DETAILS	55
P-001	GENERAL NOTES, LEGEND AND ABBREVIATIONS	56
P-101	TYPICAL WELL HOUSE PLANS	57
M-001	GENERAL NOTES, LEGEND AND ABBREVIATIONS	58
M-101	TYPICAL WELL HOUSE PLANS	59
E-001	ELECTRICAL LEGEND, ABBREVIATIONS AND GENERAL NOTES	60
ES001	OVERALL ELECTRICAL SITE PLAN	61
ES101	MAIN TANK TRAIL - COMMUNICATIONS (1OF2)	62
ES102	MAIN TANK TRAIL - COMMUNICATIONS (2 OF 2)	63
ES103	MAIN TANK TRAIL - POWER	64
E-401	TYPICAL WELL HOUSE AND FIXTURE SCHEDULE	65
E-601	SINGLE LINE DIAGRAMS	66

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SHEET 1 OF 66

U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
26 FEDERAL PLAZA
NEW YORK, NY 10278

474 York St
Portland, ME
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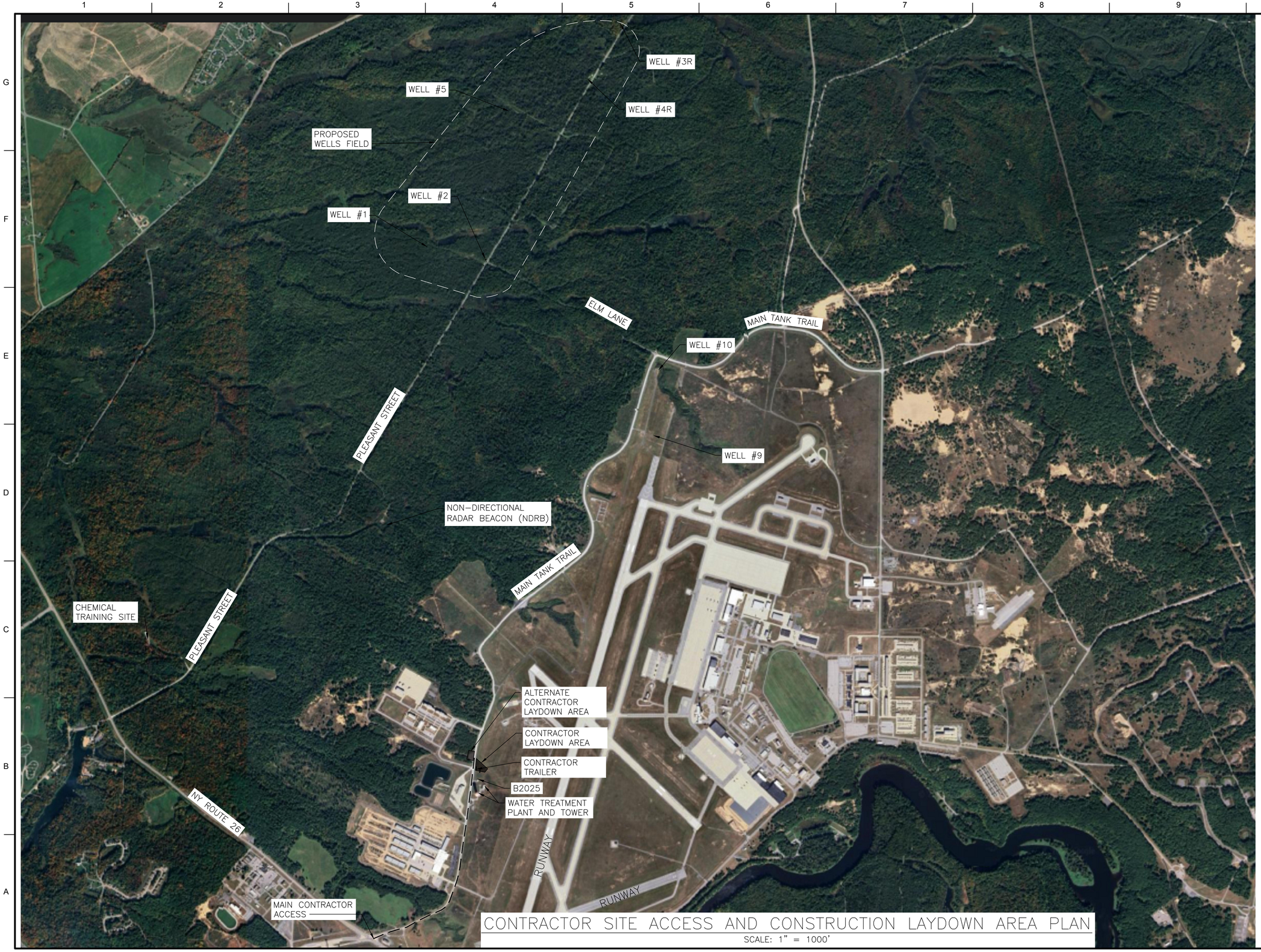
207.553.7753

FORT DRUM - WELLS FIELD EXPANSION DB-RFP
FORT DRUM, NEW YORK

COVER SHEET

SHEET ID
G-001



CONTRACTOR SITE ACCESS AND CONSTRUCTION LAYDOWN AREA PLAN

SCALE: 1" = 1000'

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FORT DRUM - WELLS FIELD EXPANSION DB-RFP
FORT DRUM, NEW YORK

CONTRACTOR SITE ACCESS AND
CONSTRUCTION LAYDOWN AREA PLAN

SHEET ID

GA001

GENERAL NOTES

1. THE CONTRACTOR MUST BE RESPONSIBLE FOR PROVIDING FIELD LAYOUT. THE CONTRACTOR MUST TAKE TIES TO UTILITY CONNECTIONS AND PROVIDE MARKED-UP RECORD DRAWINGS FOR PROPOSED UTILITIES SHOWING TIES TO CONNECTIONS, BENDS, VALVES, LENGTHS OF LINES AND INVERTS.
2. THE CONTRACTING OFFICER MUST BE NOTIFIED IN WRITING OF ANY CONDITIONS THAT VARY FROM THOSE SHOWN ON THE PLANS. THE CONTRACTOR'S WORK MUST NOT VARY FROM THE DRAWINGS WITHOUT THE EXPRESSED APPROVAL FROM THE ENGINEER AND CONTRACTING OFFICER.
3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO EXAMINE PLAN SHEETS AND SPECIFICATIONS, AND COORDINATE WORK WITH OTHER CONTRACTS FOR THE SITE, INCLUDING UTILITY CONNECTIONS AND INSPECTIONS DURING CONSTRUCTION.
4. TRENCH EXCAVATION AND ANY REQUIRED SHEETING AND SHORING MUST BE DONE IN ACCORDANCE WITH THE LATEST OSHA REGULATIONS OR EM385-1-1 (2014) WHICHEVER IS MORE STRINGENT FOR CONSTRUCTION.
5. THE CONTRACTOR MUST BE RESPONSIBLE FOR THE MAINTENANCE OF SURFACE DRAINAGE DURING THE COURSE OF WORK.
6. EXISTING DRAINAGE UTILITY INFORMATION PROVIDED BY FORT DRUM GIS AND ENVIRONMENTAL GROUPS.

CONSTRUCTION NOTES

1. THE CONTRACTOR MUST BE RESPONSIBLE FOR MAINTAINING TRAFFIC FLOW DURING CONSTRUCTION, MAINTAINING EXISTING TRAFFIC CONTROL SIGNAGE AND INFORMATIONAL SIGNS DURING PROGRESS OF THE WORK WHERE POSSIBLE. PROVIDE ADDITIONAL SIGNAGE AS NECESSARY TO DIRECT VEHICLES AND PEDESTRIANS AROUND CONSTRUCTION SITE.
2. ALL CONSTRUCTION MATERIALS MUST BE TRANSPORTED TO AND FROM THE SITE IN COVERED VEHICLES.
3. THE CONTRACTOR MUST BE RESPONSIBLE FOR MAINTAINING THEIR SECURITY AT ALL TIMES DURING CONSTRUCTION.
4. THE CONTRACTOR MUST COMPLY WITH ALL APPLICABLE OSHA AND EM 385 REGULATIONS AND SAFETY REQUIREMENTS.
5. CONTRACTOR MUST PROVIDE QUALIFIED PERSONNEL ON SITE CAPABLE OF PROVIDING HORIZONTAL AND VERTICAL CONTROL.
6. EXCAVATED MATERIAL WILL BE REUSED ONSITE AS ALLOWED BY SPECIFICATIONS. UNSUITABLE AND/OR UNWANTED SURPLUS MATERIAL, AS DETERMINED BY THE CONTRACTING OFFICER, MUST BECOME THE PROPERTY OF THE CONTRACTOR AND MUST BE DISPOSED OF OFF OWNER'S PROPERTY. UNLESS NOTED OTHERWISE, SURPLUS NATIVE TOPSOIL AND EXCAVATED SUBSOILS THAT REMAIN AT THE END OF CONSTRUCTION AND/OR ARE NO LONGER REQUIRED TO COMPLETE THE WORK, TO INCLUDE SOILS AND FILLS BROUGHT ON-SITE, SHALL BECOME THE PROPERTY OF THE CONTRACTOR, AND MUST BE COMPLETELY REMOVED AND DISPOSED OF OFF-SITE IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS AT THE CONTRACTOR'S EXPENSE. TESTING REQUIRED TO BE PERFORMED ON SOILS AND FILLS TO BE DISPOSED OF OFF-SITE, WHETHER REQUIRED BY FEDERAL, STATE, AND LOCAL RULES AND REGULATIONS, OR BY THE REQUIREMENTS OF THE RECEIVER OF THE SOILS AND FILLS, IS THE CONTRACTOR'S RESPONSIBILITY.
7. IF FILL IS IMPORTED TO SUPPORT THE PROJECT, THE ORIGIN OF THE FILL MUST BE REPORTED TO THE CONTRACTING OFFICER BEFORE DELIVERY. IMPORTED FILL MUST BE CERTIFIED CLEAN WITH ZERO TOLERANCE FOR CONTAMINANTS TO INCLUDE PFAS CONTAMINATION. METHOD 1633 MUST BE USED TO DETERMINE PFAS LEVELS AND WILL NEED TO MEET THE PROTECTION OF GROUNDWATER GUIDANCE VALUES ESTABLISHED BY THE NYSDEC.

UTILITY NOTES

1. EXISTING UTILITIES SHOWN ON THE PROJECT DRAWINGS ARE LOCATED APPROXIMATELY AND MUST BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. UTILITY LOCATIONS ARE BASED ON PHYSICAL LOCATIONS AND DRAWINGS PROVIDED BY THE GOVERNMENT. THE CONTRACTOR MUST FIELD VERIFY ALL UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR MUST BE RESPONSIBLE FOR THE REPAIRS OF ALL DISTURBED UTILITIES DURING CONSTRUCTION AT NO COST TO GOVERNMENT.
2. THE CONTRACTOR MUST ARRANGE FOR TEMPORARY UTILITY CONNECTIONS THAT MAY BE REQUIRED DURING CONSTRUCTION. INCLUDING BUT NOT LIMITED TO: POTABLE WATER, POWER, AND SANITARY SEWER.
3. EXISTING UTILITIES TO REMAIN IN OPERATION MUST BE PROTECTED FROM DAMAGE BY THE CONTRACTOR. ANY DAMAGE TO EXISTING UTILITIES TO REMAIN MUST BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE GOVERNMENT.
4. THE CONTRACTOR MUST VERIFY THE EXACT LOCATION OF EXISTING UTILITIES AND TAKE CARE TO PROTECT EXISTING UTILITIES. CONTRACTOR CAUSED DAMAGE TO EXISTING UTILITIES MUST BE REPAIRED AT NO ADDITIONAL COST TO THE GOVERNMENT. CONTRACTOR MUST CALL DIG SAFE AT 811 AND PROVIDE LOCAL UTILITIES NOT COVERED BY DIG SAFE, NOT LESS THAN 72 HOURS PRIOR TO ANY EXCAVATION FOR VERIFICATION OF UNDERGROUND UTILITY LOCATIONS. SINCE DIG SAFE MAY NOT IDENTIFY SOME UTILITIES ON GOVERNMENT PROPERTY, THE CONTRACTOR MUST ENGAGE SERVICES OF FORT DRUM DPW AND PRIVATE UTILITY LOCATING COMPANIES FOR ADDITIONAL ASSISTANCE WITH BELOW GRADE LOCATING UNDERGROUND UTILITIES. REFER TO THE SPECIFICATIONS SECTION 01 11 00 FOR FURTHER INFORMATION.
5. WHERE CONTRACTOR ENCOUNTERS EXISTING ABANDONED PIPES AND CONDUIT WITHIN THE LIMIT OF EXCAVATION FOR THE WORK OF THE PROJECT, THE CONTRACTOR MUST IMMEDIATELY CONTACT THE CONTRACTING OFFICER.
6. CONTRACTOR MUST PROVIDE HORIZONTAL AND VERTICAL LOCATIONS OF UTILITIES ENCOUNTERED OR ABANDONED ON RECORD DRAWINGS AT THE COMPLETION OF WORK.
7. IF FROST PROTECTION DEPTH (6' MINIMUM) FOR UNDERGROUND WATER OR FIRE PROTECTION LINES IS UNATTAINABLE FOR ANY REASON, COORDINATE INSULATION REQUIREMENTS WITH THE CONTRACTING OFFICER.
8. CONTRACTOR MUST DEVELOP PROFILES FOR THE COMMUNICATIONS DUCT BANK THAT ILLUSTRATE THE FINISHED GRADES, APEX ELEVATION OF THE DUCT BANK, DEPTH OF MANHOLES, DUCTS AND ANY OTHER UTILITIES. THESE PROFILES MUST BE APPROVED BY THE GOVERNMENT PRIOR TO COMMENCEMENT OF CONSTRUCTION.

ABBREVIATIONS

@	AT
ABAND	ABANDONED
ACP	ASBESTOS CEMENT PIPE
ADA	AMERICANS WITH DISABILITIES ACT
APPROX	APPROXIMATELY
CB	CATCH BASIN
CHH	COMMUNICATIONS HANDHOLE
CMH	COMMUNICATIONS MANHOLE
CMP	CORRUGATED METAL PIPE
COMM	COMMUNICATION
CONC	CONCRETE
COND	CONDUIT
CIPP	CORRUGATED PLASTIC PIPE
CSTP	COPPER SIZED TUBING PLASTIC
Ø , DIA	DIAMETER
DI	DUCTILE IRON
DMH	DRAIN MANHOLE
DWG	DRAWING
DWGS	DRAWINGS
ELEC	ELECTRIC
ELEV	ELEVATION
EMH	ELECTRIC MANHOLE
EQUIP	EQUIPMENT
EXIST	EXISTING
FF	FINISHED FLOOR
FT	FUSED SECTIONALIZER
GALV	GALVANIZED
HDPE	HIGH DENSITY POLYETHYLENE PIPE
IN	INCHES
LF	LINEAR FEET
MAX	MAXIMUM
MH	MANHOLE
MIN	MINIMUM
MJ	MECHANICAL JOINT
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NPW	NON-POTABLE WATER
NTS	NOT TO SCALE
OH	OVERHEAD
OHE	OVERHEAD ELECTRIC
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
PE	POLYETHYLENE PIPE
PVC	POLY VINYL CHLORIDE
RC, RCP	REINFORCED CONCRETE PIPE
SICPP	SMOOTH INTERIOR CORRUGATED PLASTIC PIPE
SMH	SANITARY SEWER MANHOLE
SQ	SQUARE
T	TRANSFORMER
TBD	TO BE DETERMINED
T.O.C.	TOP OF CONCRETE
TYP	TYPICAL
UG	UNDERGROUND
UGC	UNDERGROUND COMMUNICATION
UGE	UNDERGROUND ELECTRIC
VCP	VITRIFIED CLAY PIPE
VIF	VERIFY IN FIELD
VS	VACUUM SWITCH
W/	WITH

LEGEND

EXISTING		PROPOSED
	BUILDING	
	GRAVEL ROADWAY	
	PAVED ROADWAY/PARKING	
	ROAD CENTERLINE	
	PATH / TRAIL	
521	CONTOUR	521
	DRAINAGE WAY	
24" CM	CULVERT	24" CM
	TREE LINE	
X X	SECURITY FENCE	
O O	GUARDRAIL	
W W	WATER LINE	
NPW	NON-POTABLE WATER LINE	NPW
020W10	WATER VALVE	
	WATER HYDRANT	
WW010	WATER WELL	W
OHE	OVERHEAD ELECTRIC	OHE
#25	POWER POLE	
	POLE RISER	X
	OVERHEAD STRAIN WIRE	
UGE	UNDERGROUND ELECTRIC	UGE
150 KVA - 3Ø 208Y120V	ELECTRIC STRUCTURE	
COMM	UNDERGROUND COMMUNICATIONS	COMM
TM 10A1	COMMUNICATIONS STRUCTURE	
	RUNWAY CLEARANCE ZONE	
G	UNDERGROUND GAS	
SS	SEWER LINE	
SD	DRAIN LINE	
	WETLANDS	
	TEMPORARY WETLAND IMPACT	
	PERMANENT WETLAND IMPACT	
	DEMOLITION	

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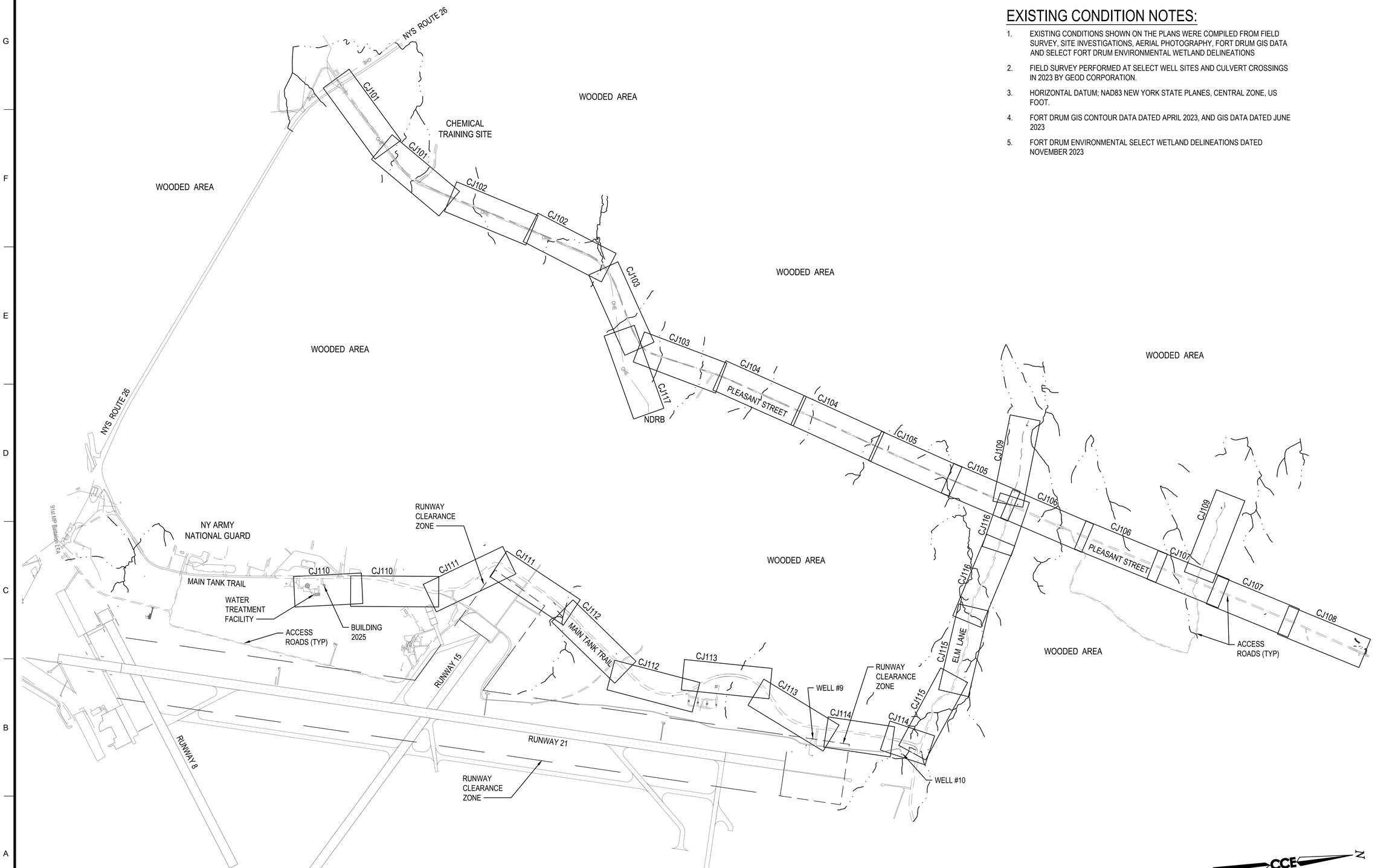
FORT DRUM - WELLS FIELD EXPANSION DB-RFP
FORT DRUM, NEW YORK

CIVIL NOTES, LEGEND, AND ABBREVIATIONS

SHEET ID
C-001

EXISTING CONDITION NOTES:

1. EXISTING CONDITIONS SHOWN ON THE PLANS WERE COMPILED FROM FIELD SURVEY, SITE INVESTIGATIONS, AERIAL PHOTOGRAPHY, FORT DRUM GIS DATA AND SELECT FORT DRUM ENVIRONMENTAL WETLAND DELINEATIONS
2. FIELD SURVEY PERFORMED AT SELECT WELL SITES AND CULVERT CROSSINGS IN 2023 BY GEOD CORPORATION.
3. HORIZONTAL DATUM; NAD83 NEW YORK STATE PLANES, CENTRAL ZONE, US FOOT.
4. FORT DRUM GIS CONTOUR DATA DATED APRIL 2023, AND GIS DATA DATED JUNE 2023
5. FORT DRUM ENVIRONMENTAL SELECT WETLAND DELINEATIONS DATED NOVEMBER 2023



EXISTING CONDITIONS DRAWING LAYOUT KEY PLAN

SCALE:1" = 750'

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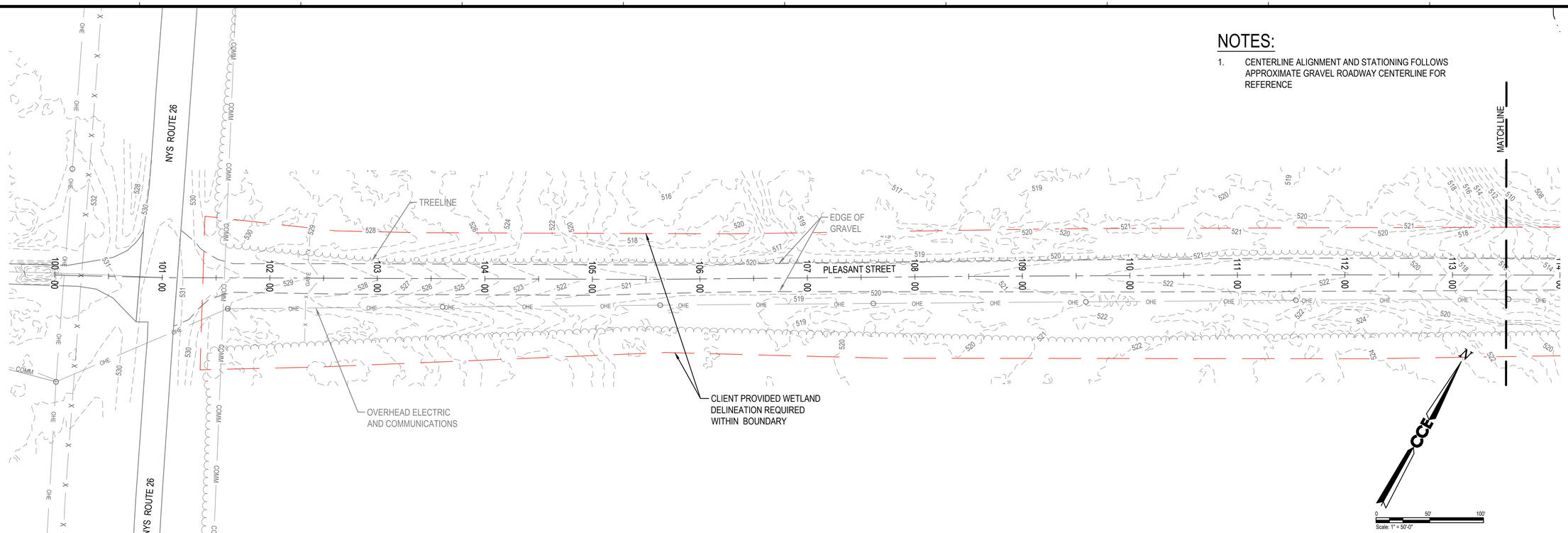
FORT DRUM - WELLS FIELD EXPANSION DB-RFP
FORT DRUM, NEW YORK

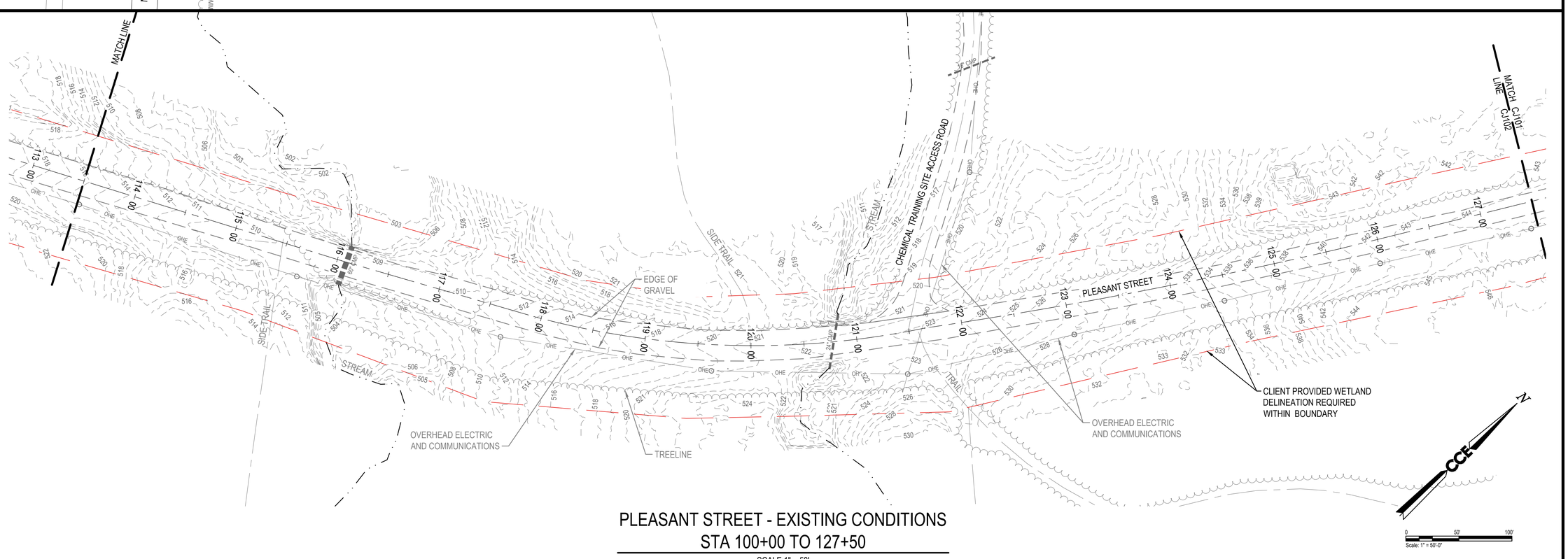
EXISTING CONDITIONS
DRAWING LAYOUT KEY PLAN

SHEET ID
CJ100

NOTES:

1. CENTERLINE ALIGNMENT AND STATIONING FOLLOWS APPROXIMATE GRAVEL ROADWAY CENTERLINE FOR REFERENCE





PLEASANT STREET - EXISTING CONDITIONS
STA 100+00 TO 127+50

SCALE:1" = 50'

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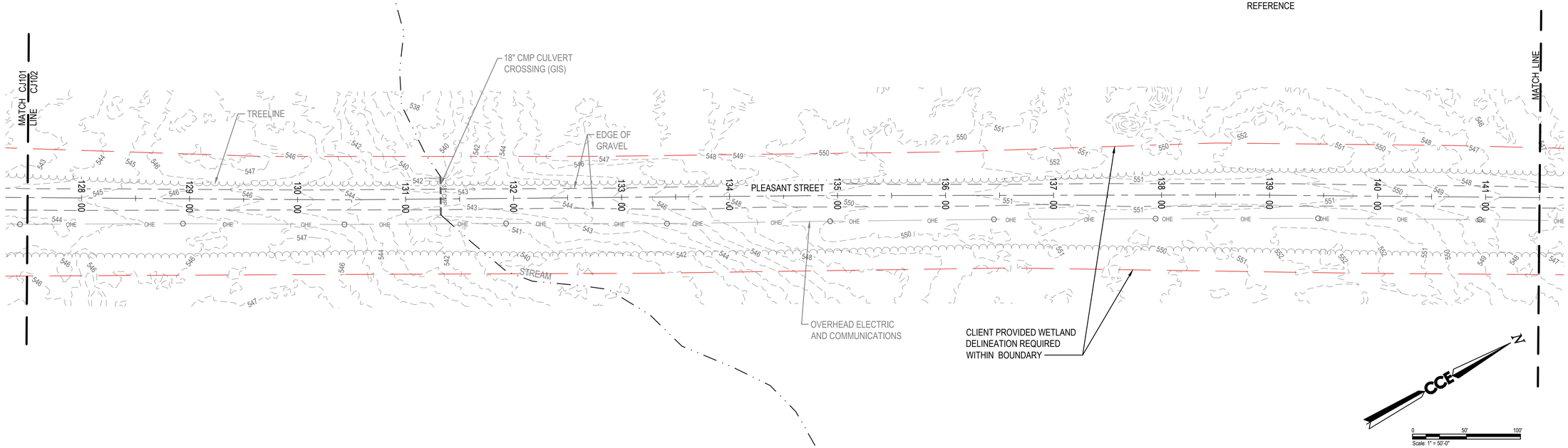
FORT DRUM - WELLS FIELD EXPANSION DB-RFP
FORT DRUM, NEW YORK

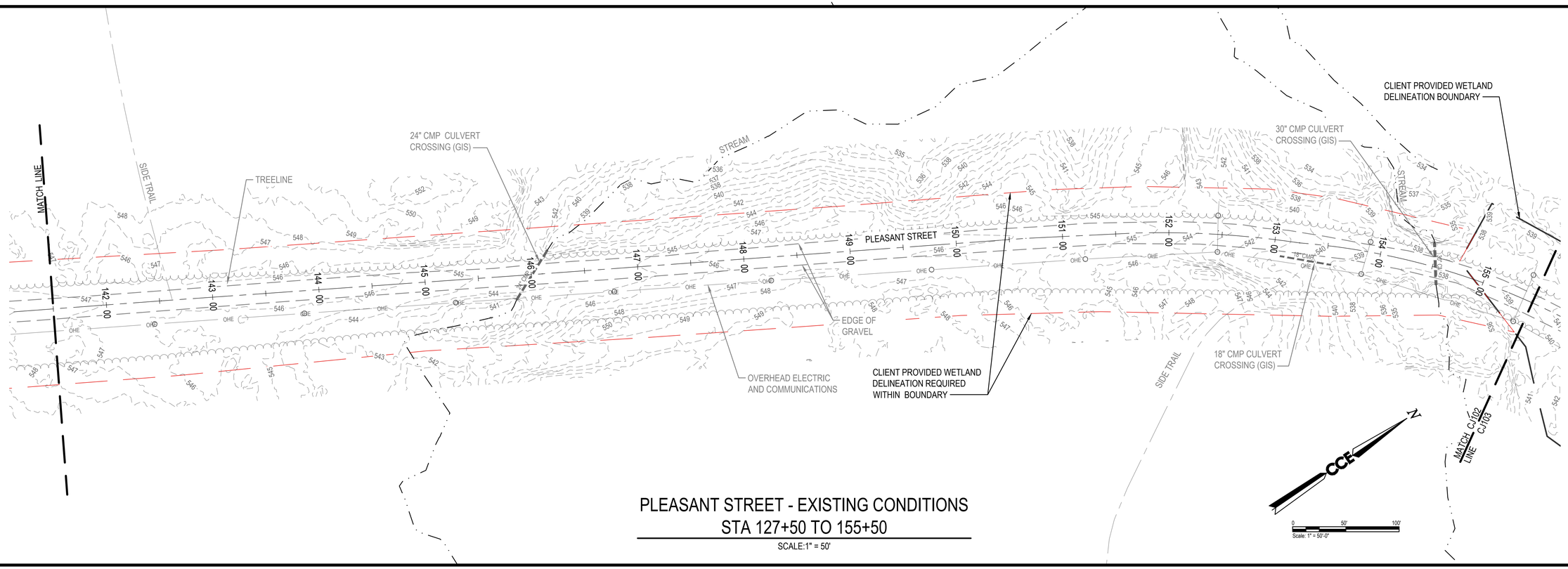
PLEASANT STREET - EXISTING CONDITIONS STA 100+00 TO 127+50

SHEET ID
CJ101

NOTES:

1. CENTERLINE ALIGNMENT AND STATIONING FOLLOWS APPROXIMATE GRAVEL ROADWAY CENTERLINE FOR REFERENCE





PLEASANT STREET - EXISTING CONDITIONS
STA 127+50 TO 155+50

SCALE:1" = 50'

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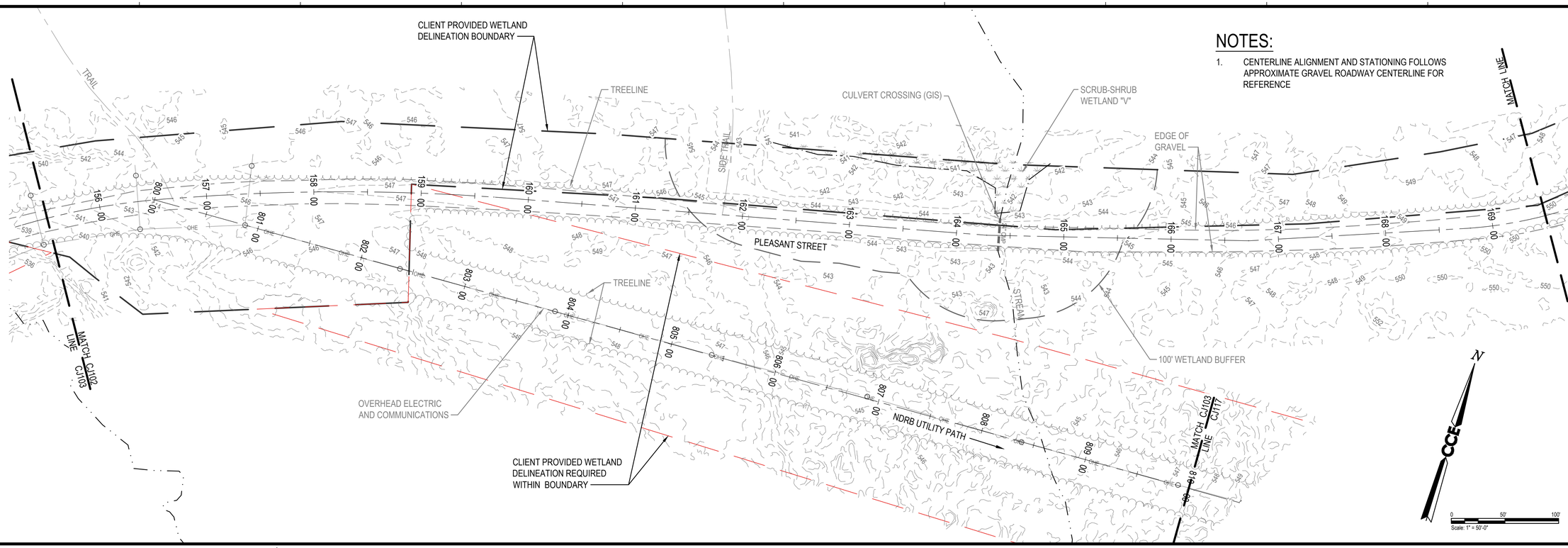
FORT DRUM - WELLS FIELD EXPANSION DB-RFP
FORT DRUM, NEW YORK

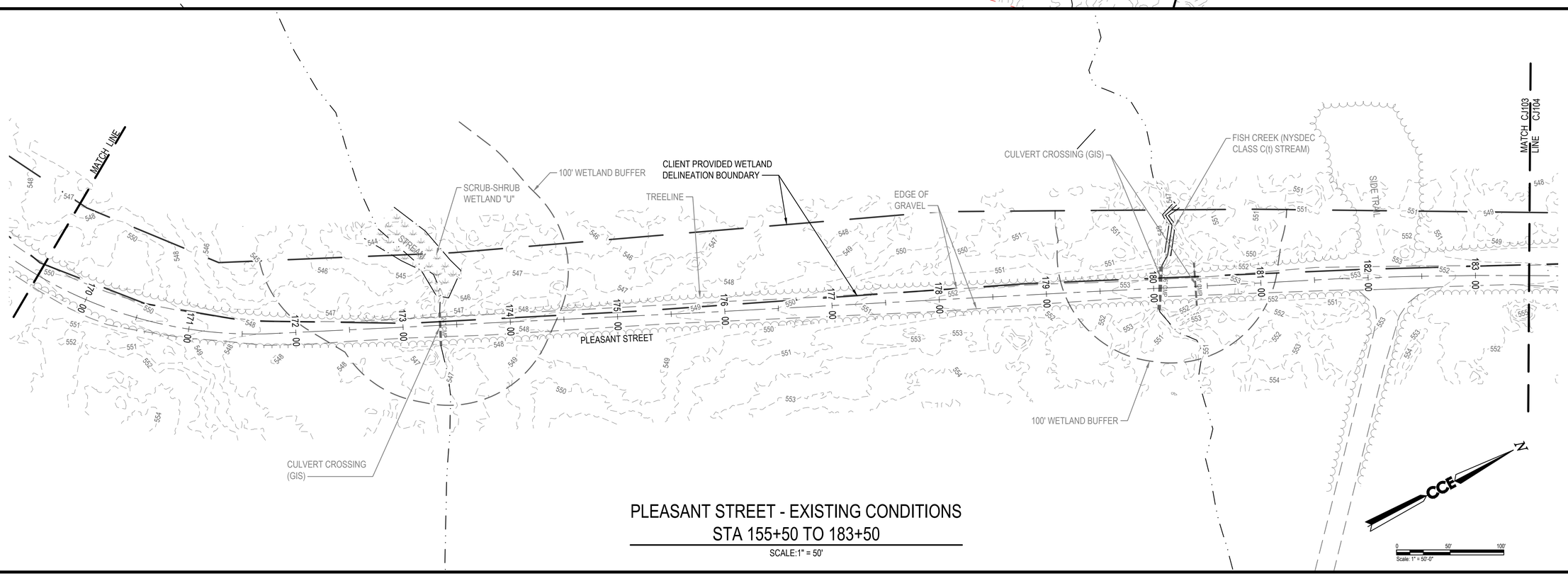
PLEASANT STREET - EXISTING CONDITIONS
STA 127+50 TO 155+50

SHEET ID
CJ102

NOTES:

1. CENTERLINE ALIGNMENT AND STATIONING FOLLOWS APPROXIMATE GRAVEL ROADWAY CENTERLINE FOR REFERENCE





PLEASANT STREET - EXISTING CONDITIONS
STA 155+50 TO 183+50

SCALE:1" = 50'

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SHEET 7 OF 66

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SUBMITTED BY: RLO
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SCALE: AS SHOWN

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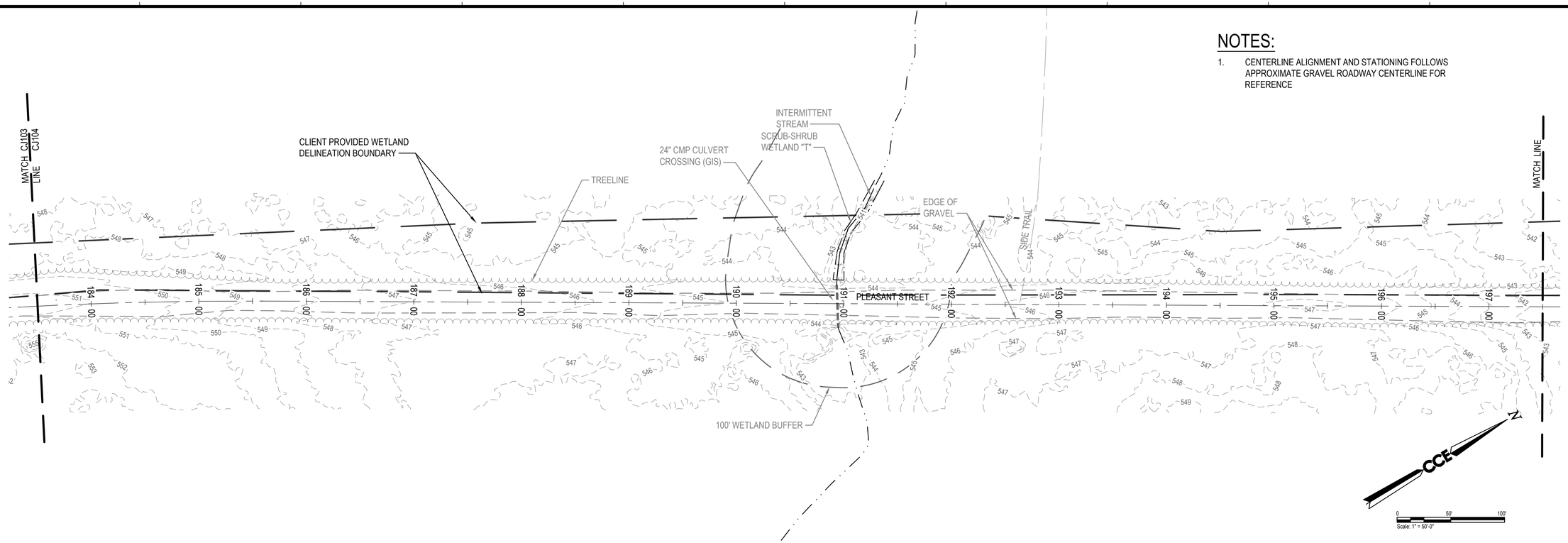
FORT DRUM - WELLS FIELD EXPANSION DB-RFP
FORT DRUM, NEW YORK

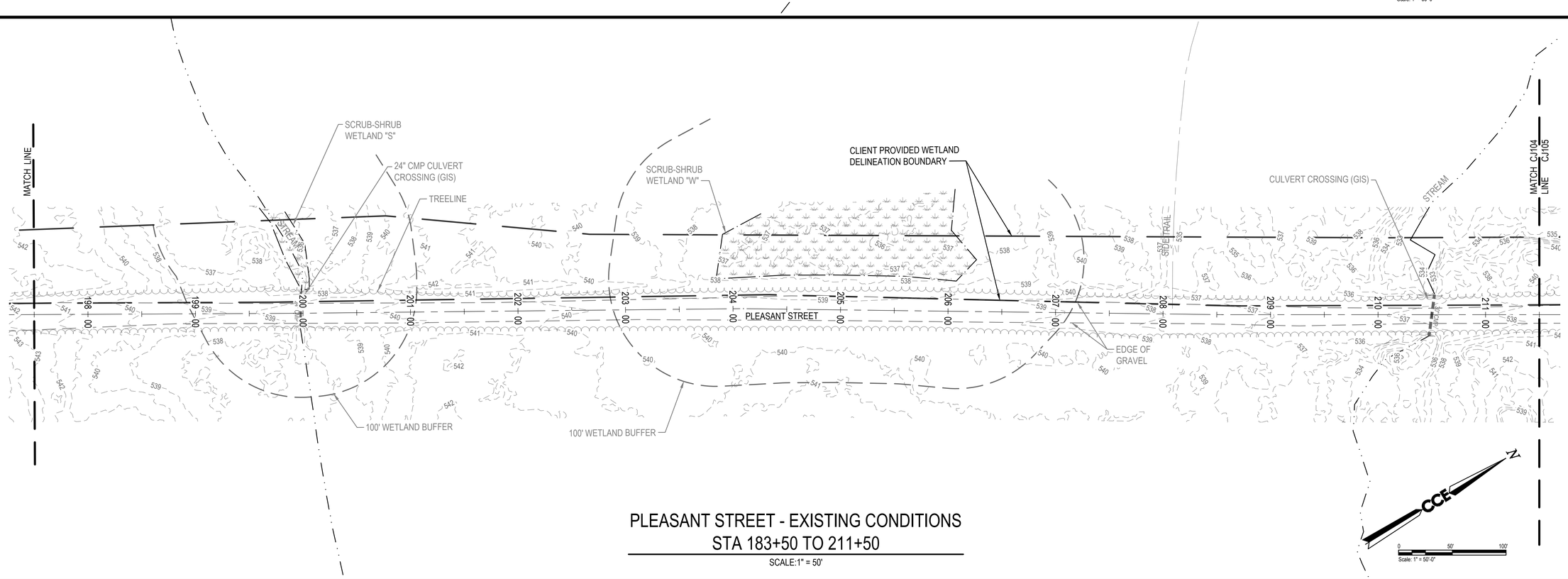
PLEASANT STREET - EXISTING CONDITIONS
STA 155+50 TO 183+50

SHEET ID
CJ103

NOTES:

1. CENTERLINE ALIGNMENT AND STATIONING FOLLOWS APPROXIMATE GRAVEL ROADWAY CENTERLINE FOR REFERENCE





PLEASANT STREET - EXISTING CONDITIONS
STA 183+50 TO 211+50

SCALE:1" = 50'

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE
C	FINAL DB-RFP	06/09/2026
B	PRE-FINAL DB-RFP	02/27/2026
A	DRAFT DB-RFP	01/13/2026

DESIGNED BY: LDA
DRAWN BY: DSE
CHECKED BY: HLS
SUBMITTED BY: RLC
SIZE: ANSI D
ISSUE DATE: 06/09/2026
SOLICITATION NO.:
CONTRACT NO.:
DRAWING CODE:
SCALE: AS SHOWN
SHEET 8 OF 66

U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
26 FEDERAL PLAZA
NEW YORK, NY 10278

CCE
47A York St.
Portland, ME
04101
207.553.7753

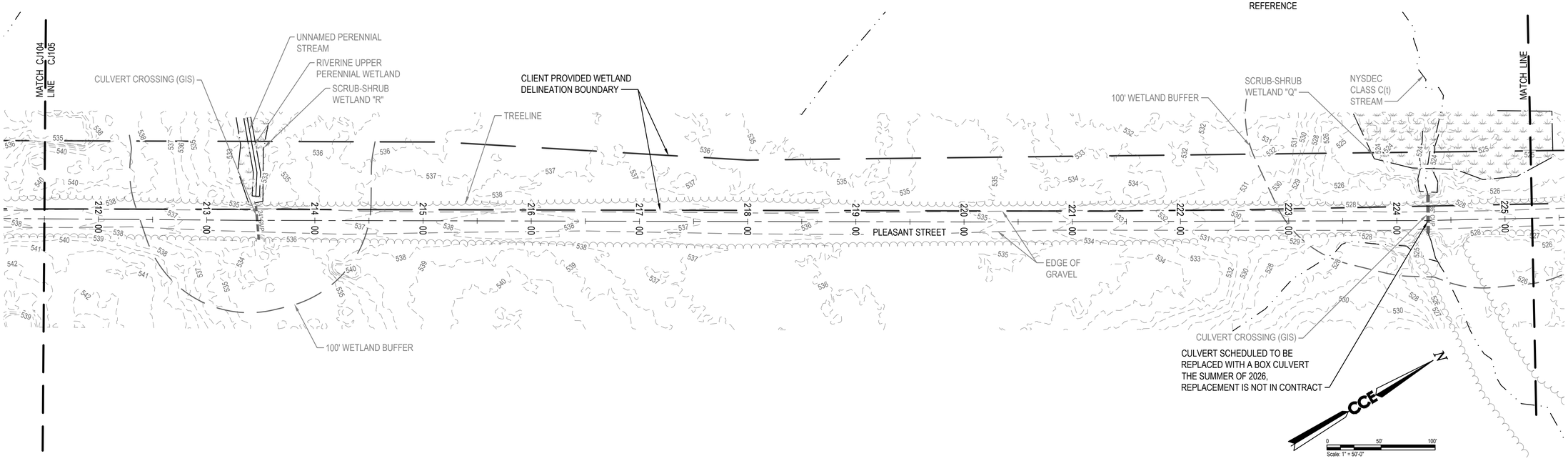
FORT DRUM - WELLS FIELD EXPANSION DB-RFP
FORT DRUM, NEW YORK

PLEASANT STREET - EXISTING CONDITIONS
STA 183+50 TO 211+50

SHEET ID
CJ104

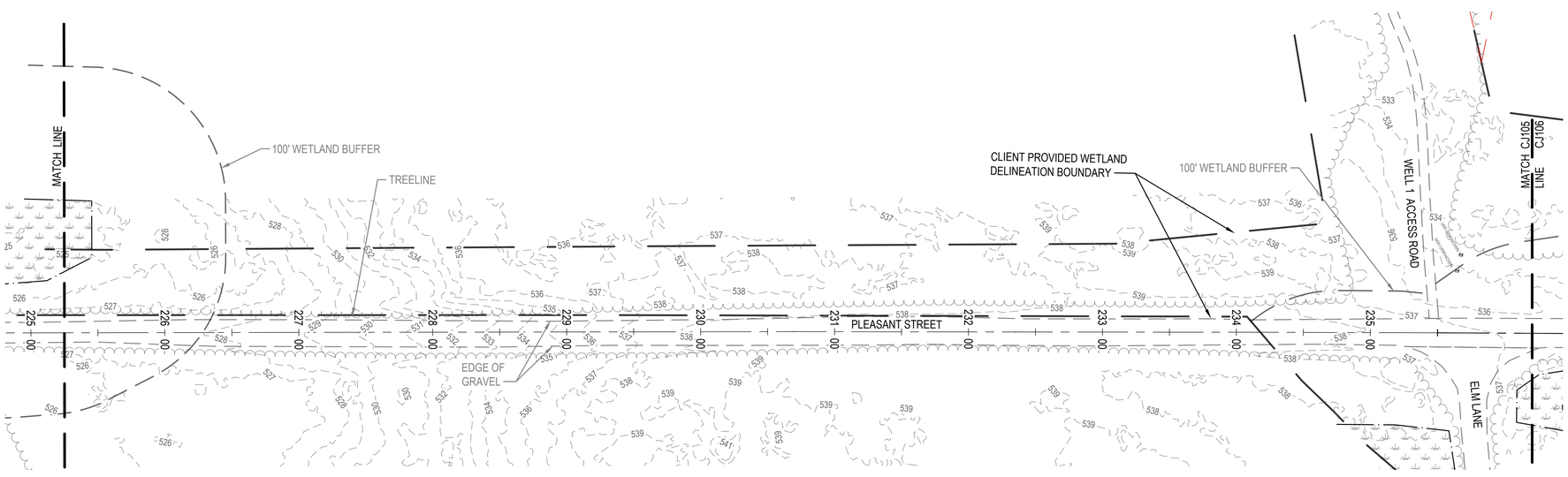
NOTES:

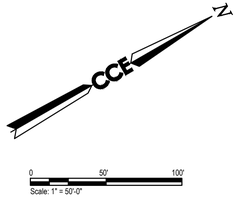
1. CENTERLINE ALIGNMENT AND STATIONING FOLLOWS APPROXIMATE GRAVEL ROADWAY CENTERLINE FOR REFERENCE



NOTES:

1. SEE SHEET CJ109 FOR CONTINUATION OF WELL 1 ACCESS ROAD
2. SEE SHEET CJ116 FOR CONTINUATION OF ELM LANE
3. SEE SHEET CJ106 FOR CONTINUATION OF PLEASANT STREET





PLEASANT STREET - EXISTING CONDITIONS
STA 211+50 TO 235+50

SCALE:1" = 50'

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE
C	FINAL DB-RFP	06/09/2026
B	PRE-FINAL DB-RFP	02/27/2026
A	DRAFT DB-RFP	01/13/2026

DESIGNED BY: LDA
DRAWN BY: DSE
CHECKED BY: HLS
SUBMITTED BY:
SUBMITTED:
SIZE: ANSI D
ISSUE DATE: 06/09/2026
SOLICITATION NO.:
CONTRACT NO.:
DRAWING CODE:
SCALE: AS SHOWN
SHEET 9 OF 66

U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
26 FEDERAL PLAZA
NEW YORK, NY 10278

47A York St
Portland, ME 04101
207.553.7753

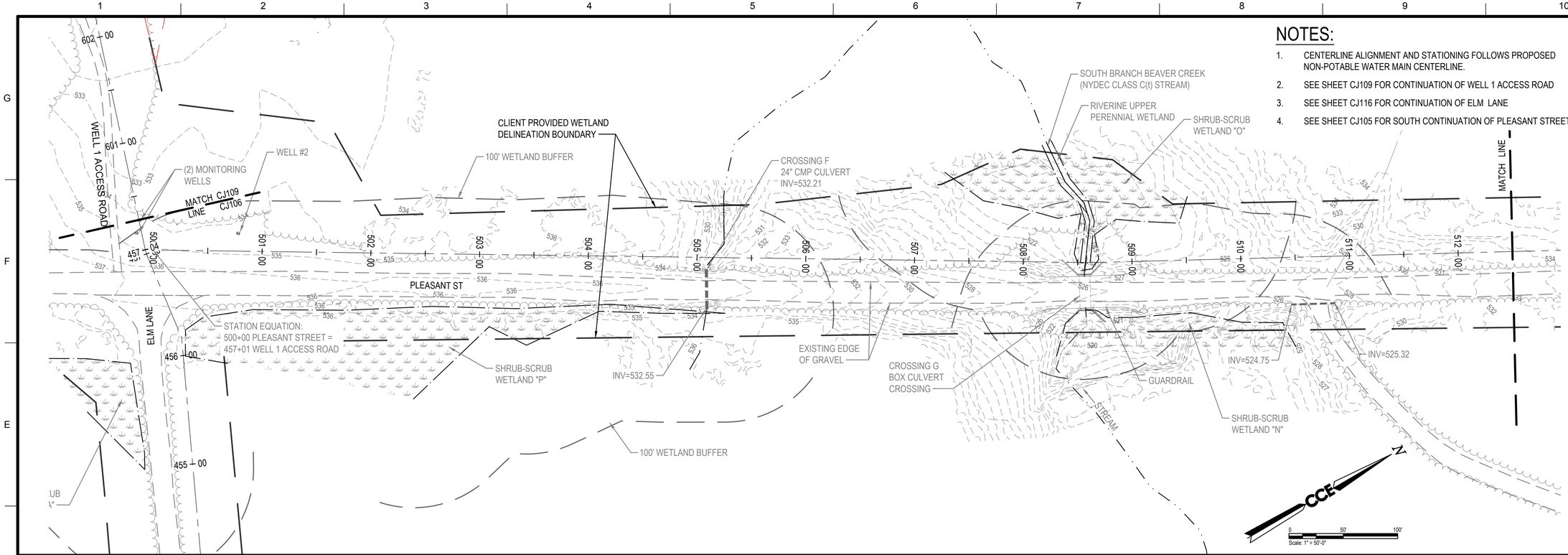
FORT DRUM - WELLS FIELD EXPANSION DB-RFP
FORT DRUM, NEW YORK

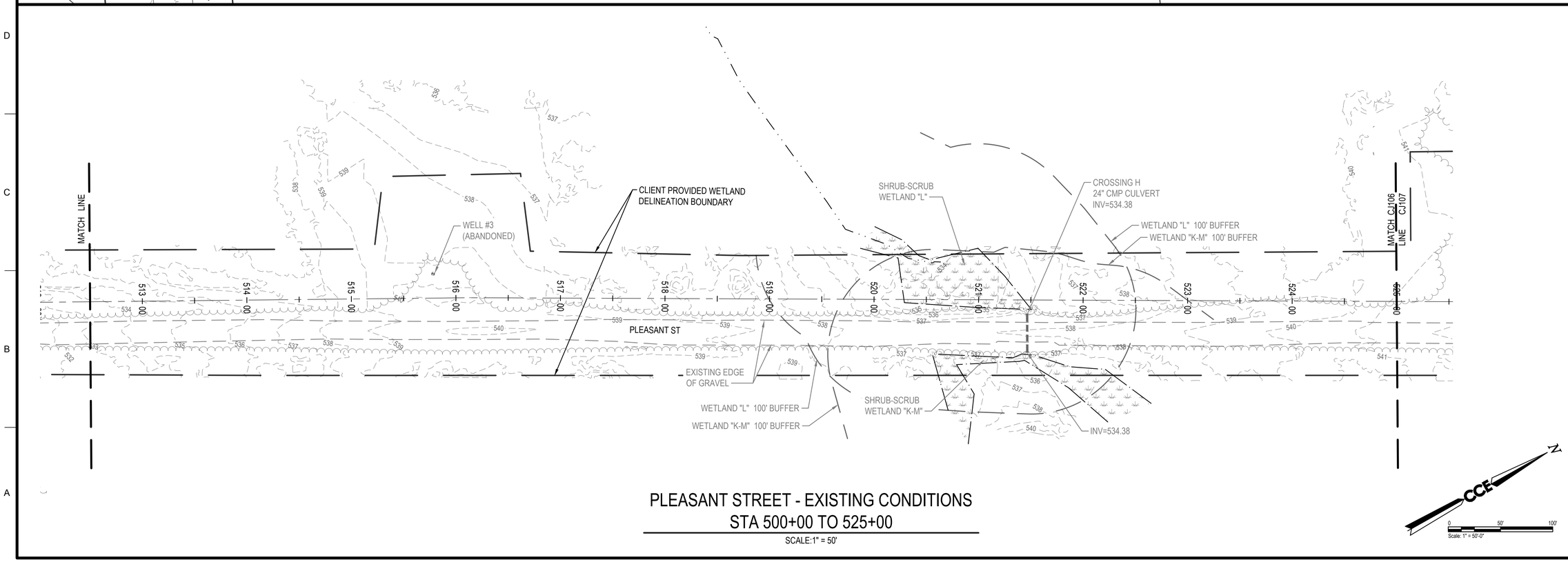
PLEASANT STREET - EXISTING CONDITIONS
STA 211+50 TO 235+50

SHEET ID
CJ105

NOTES:

1. CENTERLINE ALIGNMENT AND STATIONING FOLLOWS PROPOSED NON-POTABLE WATER MAIN CENTERLINE.
2. SEE SHEET CJ109 FOR CONTINUATION OF WELL 1 ACCESS ROAD
3. SEE SHEET CJ116 FOR CONTINUATION OF ELM LANE
4. SEE SHEET CJ105 FOR SOUTH CONTINUATION OF PLEASANT STREET





PLEASANT STREET - EXISTING CONDITIONS
STA 500+00 TO 525+00

SCALE:1" = 50'

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE
C	FINAL DB-RFP	06/09/2026
B	PRE-FINAL DB-RFP	02/27/2026
A	DRAFT DB-RFP	01/13/2026

DESIGNED BY: LDA
DRAWN BY: DSE
CHECKED BY: HLS
SUBMITTED BY: RJD
SIZE: ANSI D
ISSUE DATE: 06/09/2026
SOLICITATION NO.:
CONTRACT NO.:
DRAWING CODE:
SCALE: AS SHOWN
SHEET 10 OF 66

U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
26 FEDERAL PLAZA
NEW YORK, NY 10278

424 York St
Portland, ME
04101
207.553.7753

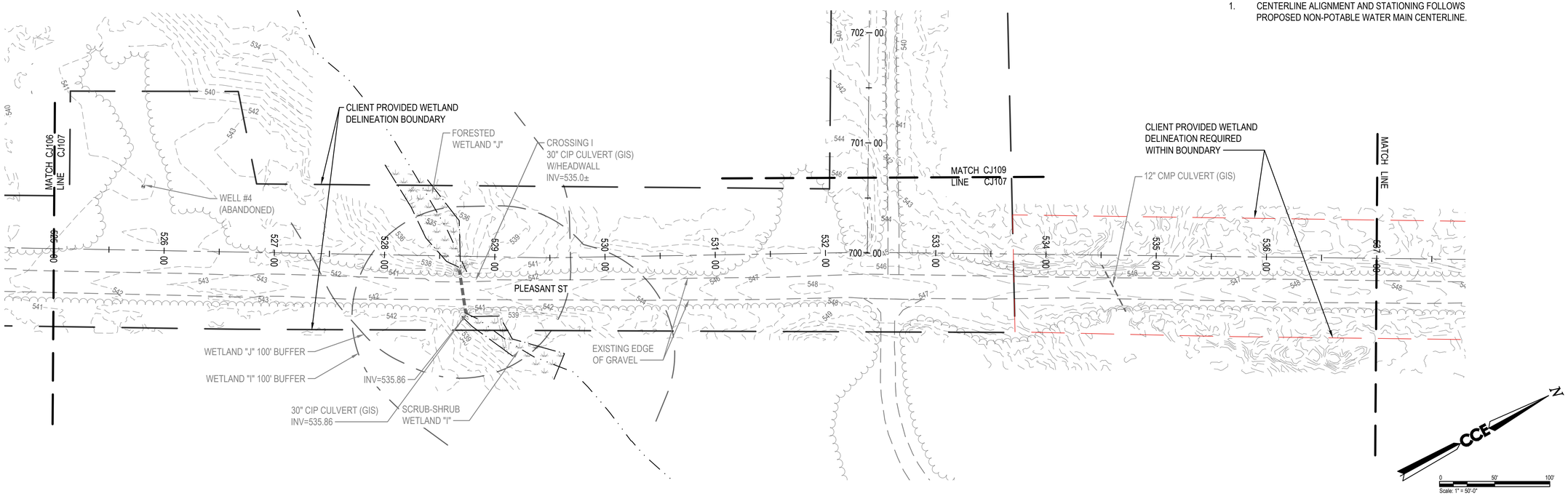
FORT DRUM - WELLS FIELD EXPANSION DB-RFP
FORT DRUM, NEW YORK

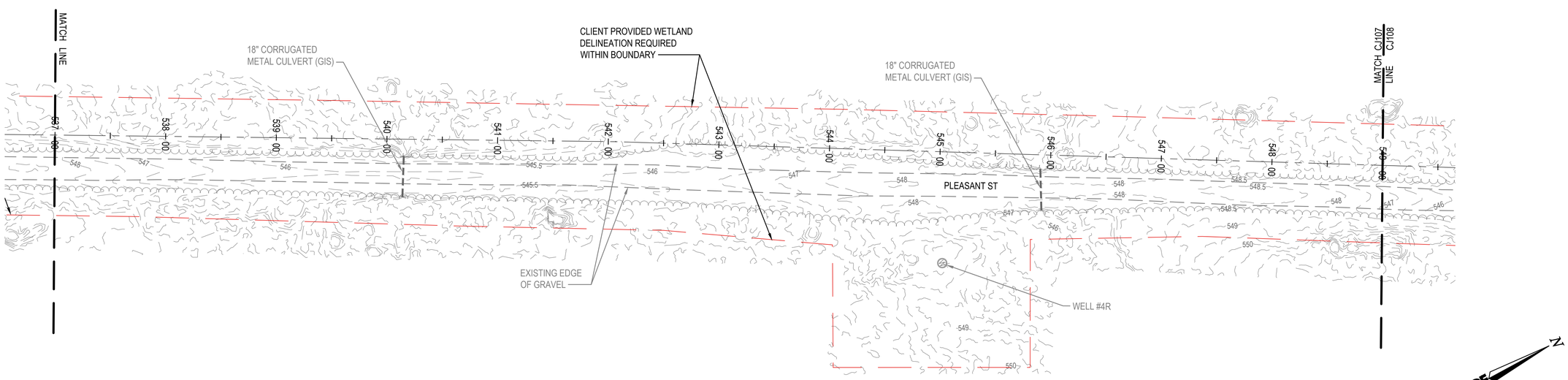
PLEASANT STREET - EXISTING CONDITIONS
STA 500+00 TO 525+00

SHEET ID
CJ106

NOTES:

1. CENTERLINE ALIGNMENT AND STATIONING FOLLOWS PROPOSED NON-POTABLE WATER MAIN CENTERLINE.





PLEASANT STREET - EXISTING CONDITIONS
STA 525+00 TO 549+00

SCALE:1" = 50'

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE
C	FINAL DB-RFP	06/09/2026
B	PRE-FINAL DB-RFP	02/27/2026
A	DRAFT DB-RFP	01/13/2026

DESIGNED BY: LDA
DRAWN BY: DSE
CHECKED BY: HLS
SUBMITTED BY: RDC
SIZE: ANSI D
SCALE: AS SHOWN
ISSUE DATE: 06/09/2026
SOLICITATION NO.:
CONTRACT NO.:
DRAWING CODE:
SHEET 11 OF 66

U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
26 FEDERAL PLAZA
NEW YORK, NY 10278

472 York St
Portland, ME
04101
207.553.7753

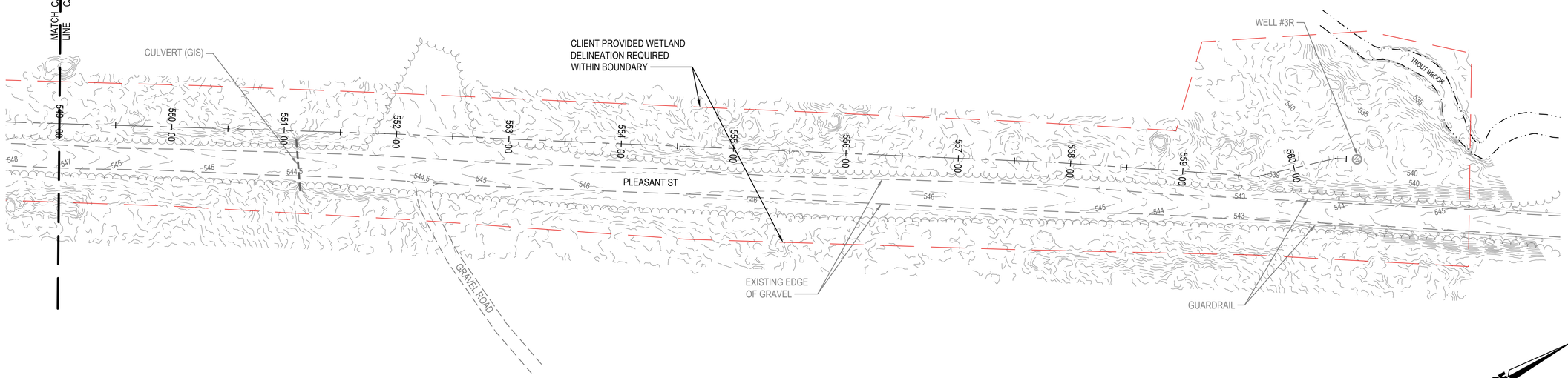
FORT DRUM - WELLS FIELD EXPANSION DB-RFP
FORT DRUM, NEW YORK

PLEASANT STREET - EXISTING CONDITIONS
STA 525+00 TO 549+00

SHEET ID
CJ107

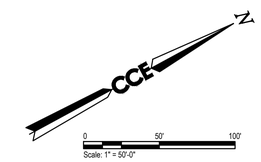
NOTES:

1. CENTERLINE ALIGNMENT AND STATIONING FOLLOWS PROPOSED NON-POTABLE WATER MAIN CENTERLINE.



PLEASANT STREET - EXISTING CONDITIONS STA 549+00 TO 560+47

SCALE:1" = 50'



US Army Corps of Engineers®

MARK	DESCRIPTION	DATE
C	FINAL DB-RFP	06/09/2026
B	PRE-FINAL DB-RFP	02/27/2026
A	DRAFT DB-RFP	01/13/2026

DESIGNED BY: LDA	ISSUE DATE: 06/09/2026
DRAWN BY: DSE	SOLICITATION NO.:
CHECKED BY: HLS	CONTRACT NO.:
SUBMITTED BY: RYLC	DRAWING CODE:
SIZE: ANSI D	SCALE: AS SHOWN
	SHEET 12 OF 66

U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
26 FEDERAL PLAZA
NEW YORK, NY 10278

CCE
424 York St
Portland, ME
04101
207.553.7753

FORT DRUM - WELLS FIELD EXPANSION DB-RFP
FORT DRUM, NEW YORK

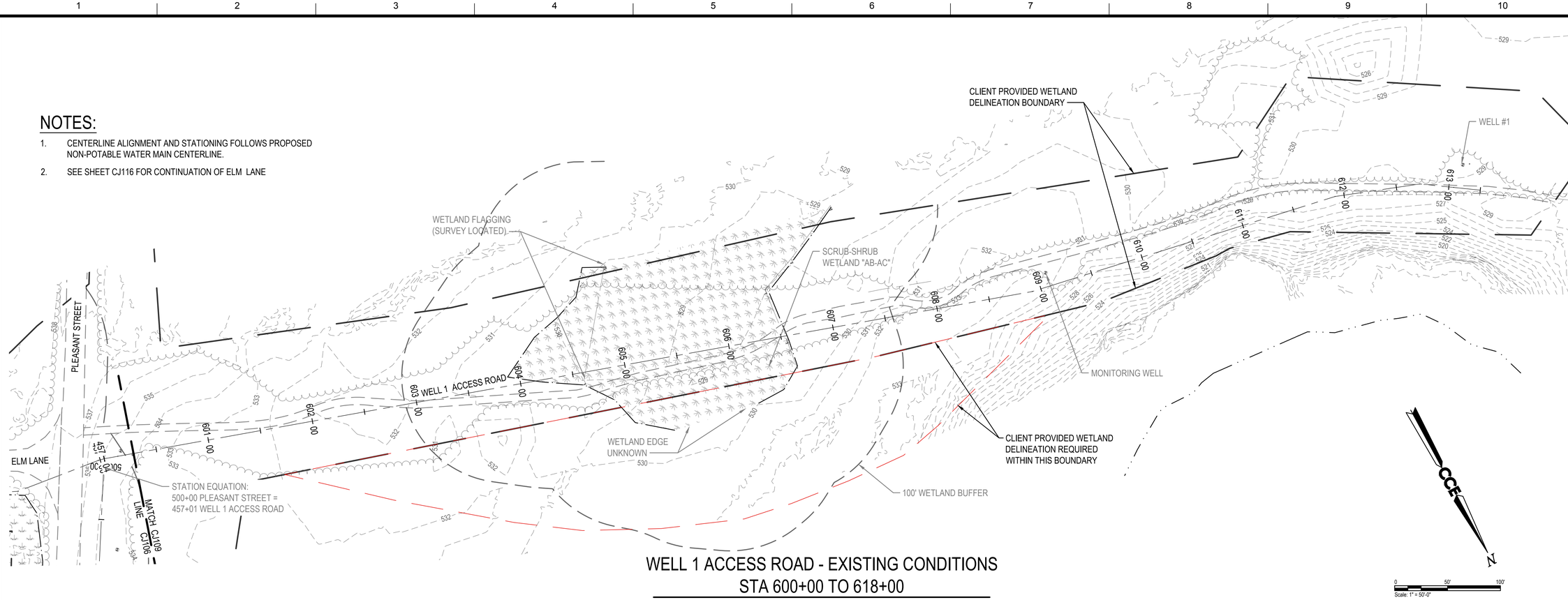
PLEASANT STREET - EXISTING CONDITIONS
STA 549+00 TO 560+47

SHEET ID

CJ108

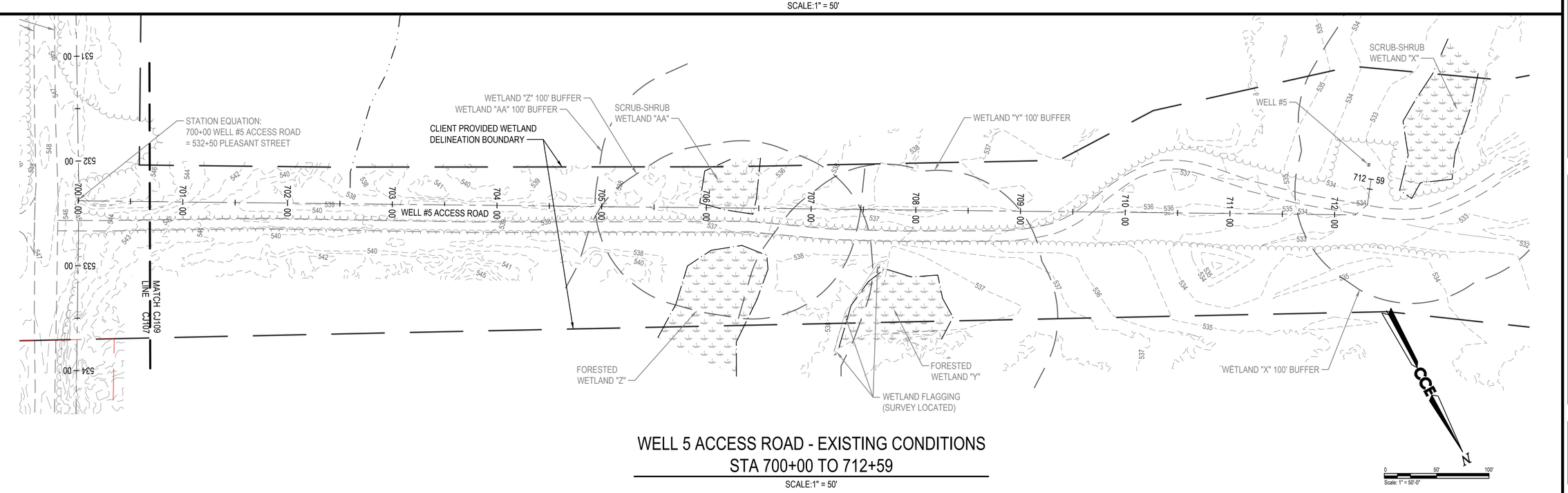
NOTES:

1. CENTERLINE ALIGNMENT AND STATIONING FOLLOWS PROPOSED NON-POTABLE WATER MAIN CENTERLINE.
2. SEE SHEET CJ116 FOR CONTINUATION OF ELM LANE



WELL 1 ACCESS ROAD - EXISTING CONDITIONS
STA 600+00 TO 618+00

SCALE:1" = 50'



WELL 5 ACCESS ROAD - EXISTING CONDITIONS
STA 700+00 TO 712+59

SCALE:1" = 50'

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE
C	FINAL DB-RFP	06/09/2026
B	PRE-FINAL DB-RFP	02/27/2026
A	DRAFT DB-RFP	01/13/2026

DESIGNED BY: LDA
DRAWN BY: DSE
CHECKED BY: HLS
SUBMITTED BY: RDL
SIZE: ANSI D
ISSUE DATE: 06/09/2026
SOLICITATION NO.:
CONTRACT NO.:
DRAWING CODE:
SCALE: AS SHOWN
SHEET 13 OF 66

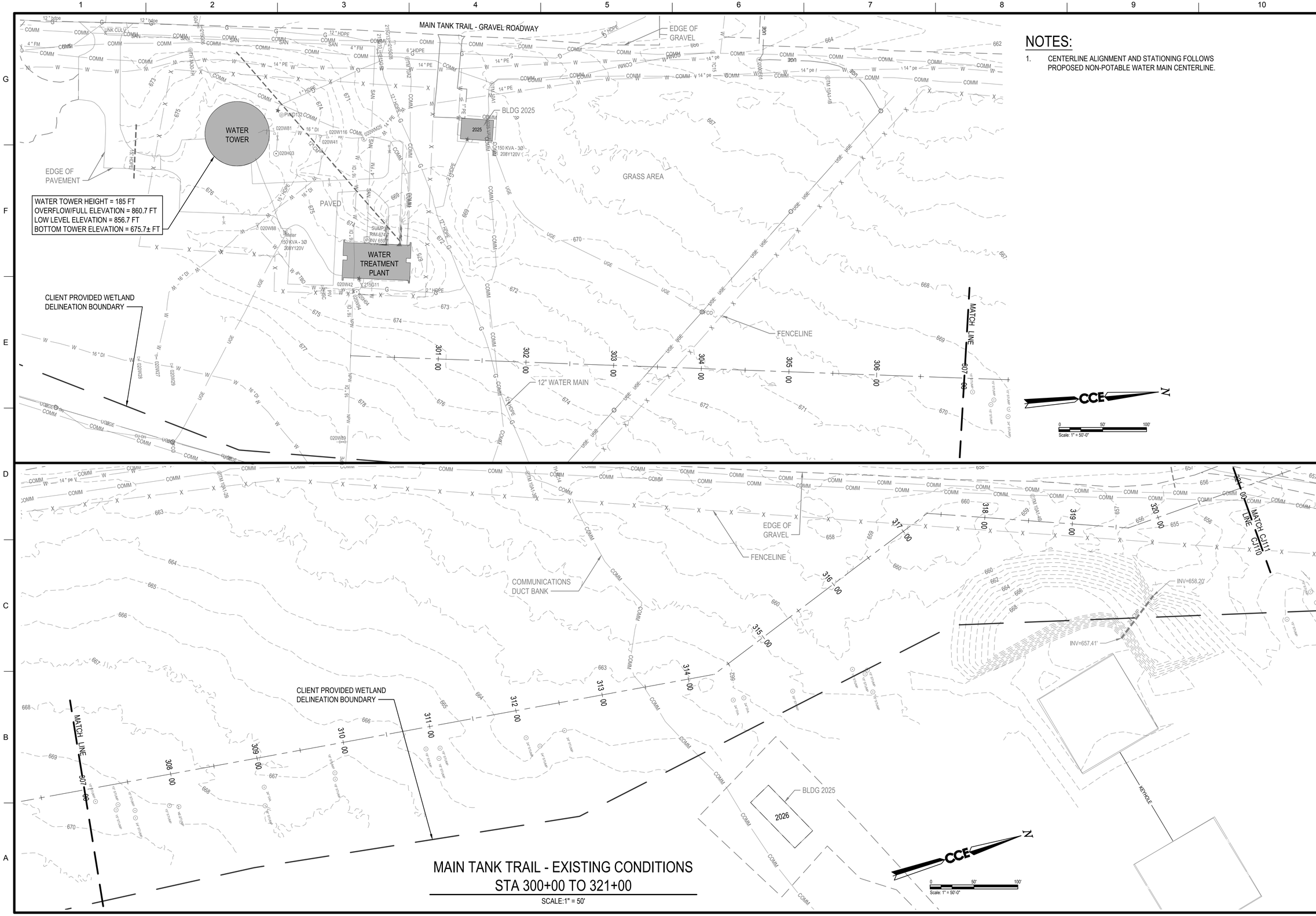
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
26 FEDERAL PLAZA
NEW YORK, NY 10278

47A York St
Portland, ME
04101
207.553.7753

FORT DRUM - WELLS FIELD EXPANSION DB-RFP
FORT DRUM, NEW YORK

WELL #1 & #5 ACCESS ROAD - EXISTING CONDITIONS

SHEET ID
CJ109



MAIN TANK TRAIL - EXISTING CONDITIONS
STA 300+00 TO 321+00

SCALE:1" = 50'

NOTES:

1. CENTERLINE ALIGNMENT AND STATIONING FOLLOWS PROPOSED NON-POTABLE WATER MAIN CENTERLINE.

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE
C	FINAL DB-RFP	06/09/2026
B	PRE-FINAL DB-RFP	02/27/2026
A	DRAFT DB-RFP	01/13/2026

DESIGNED BY: LDA
DRAWN BY: DSE
CHECKED BY: HLS
SUBMITTED BY: R. CUSTIS
SIZE: ANSI D
SCALE: AS SHOWN
ISSUE DATE: 06/09/2026
SOLICITATION NO.:
CONTRACT NO.:
DRAWING CODE:
SHEET 14 OF 66

U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
26 FEDERAL PLAZA
NEW YORK, NY 10278

47A York St
Portland, ME
04101
207.553.7753

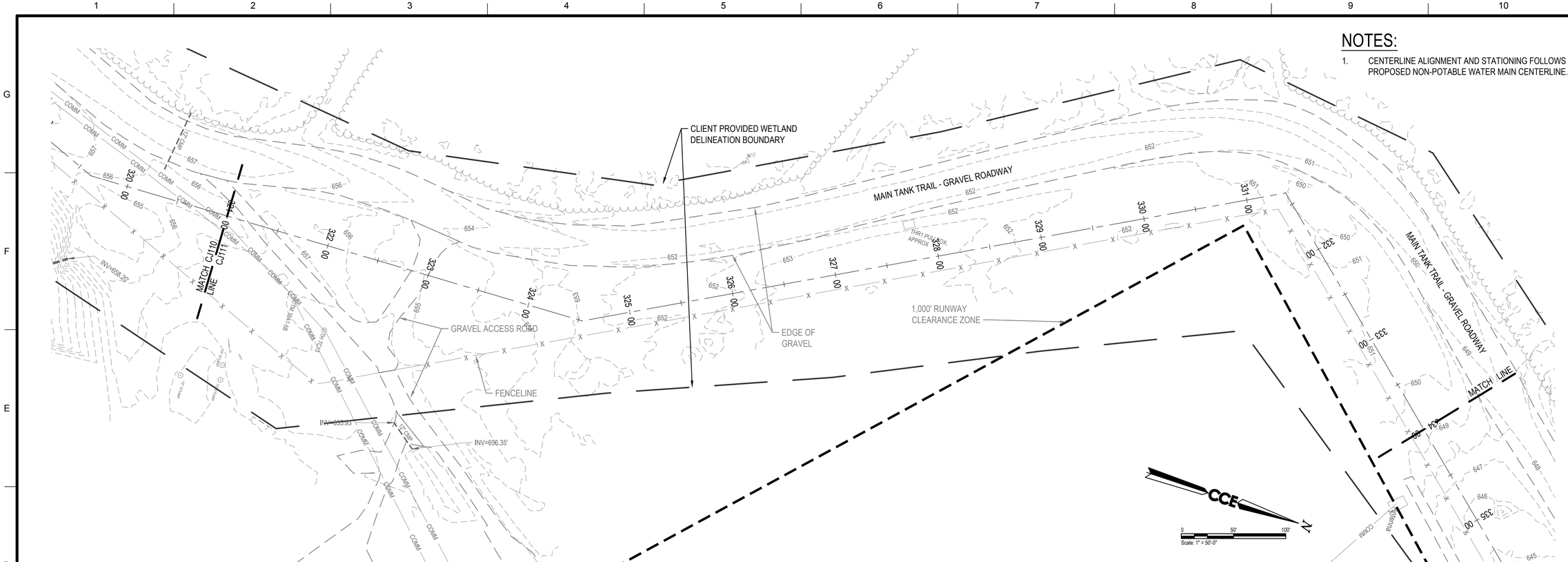
FORT DRUM - WELLS FIELD EXPANSION DB-RFP
FORT DRUM, NEW YORK

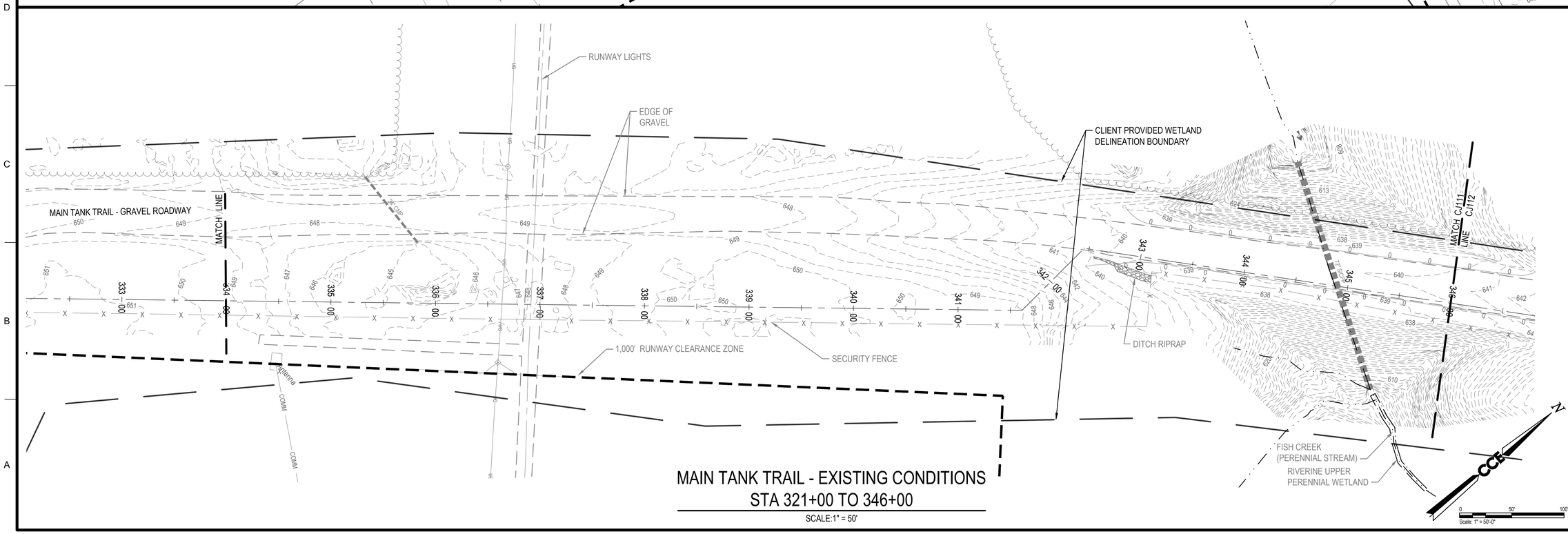
MAIN TANK TRAIL - EXISTING CONDITIONS
STA 300+00 TO 321+00

SHEET ID
CJ110

NOTES:

1. CENTERLINE ALIGNMENT AND STATIONING FOLLOWS PROPOSED NON-POTABLE WATER MAIN CENTERLINE.





MAIN TANK TRAIL - EXISTING CONDITIONS
STA 321+00 TO 346+00

SCALE:1" = 50'

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE
C	FINAL DB-RFP	06/09/2026
B	PRE-FINAL DB-RFP	02/27/2026
A	DRAFT DB-RFP	01/13/2026

DESIGNED BY: LDA
DRAWN BY: DSE
CHECKED BY: HLS
SUBMITTED BY: RDC
SIZE: ANSI D
ISSUE DATE: 06/09/2026
SOLICITATION NO.:
CONTRACT NO.:
DRAWING CODE:
SCALE: AS SHOWN
SHEET 15 OF 66

U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
26 FEDERAL PLAZA
NEW YORK, NY 10278

47A York St
Portland, ME
04101
207.553.7753

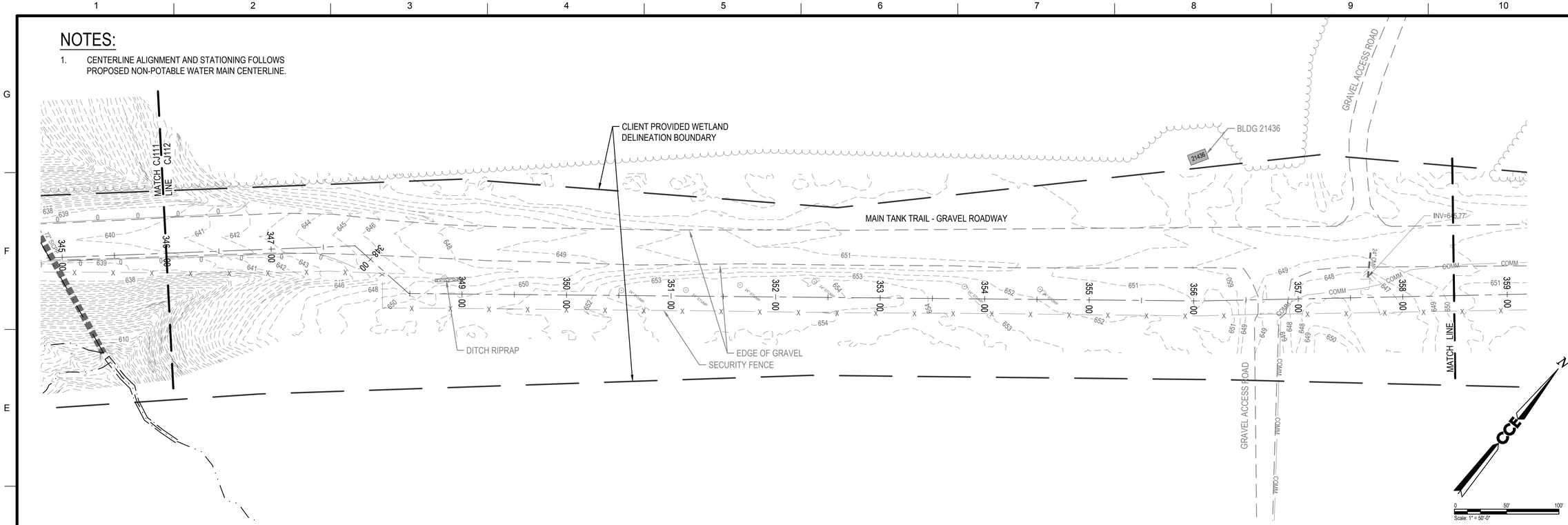
FORT DRUM - WELLS FIELD EXPANSION DB-RFP
FORT DRUM, NEW YORK

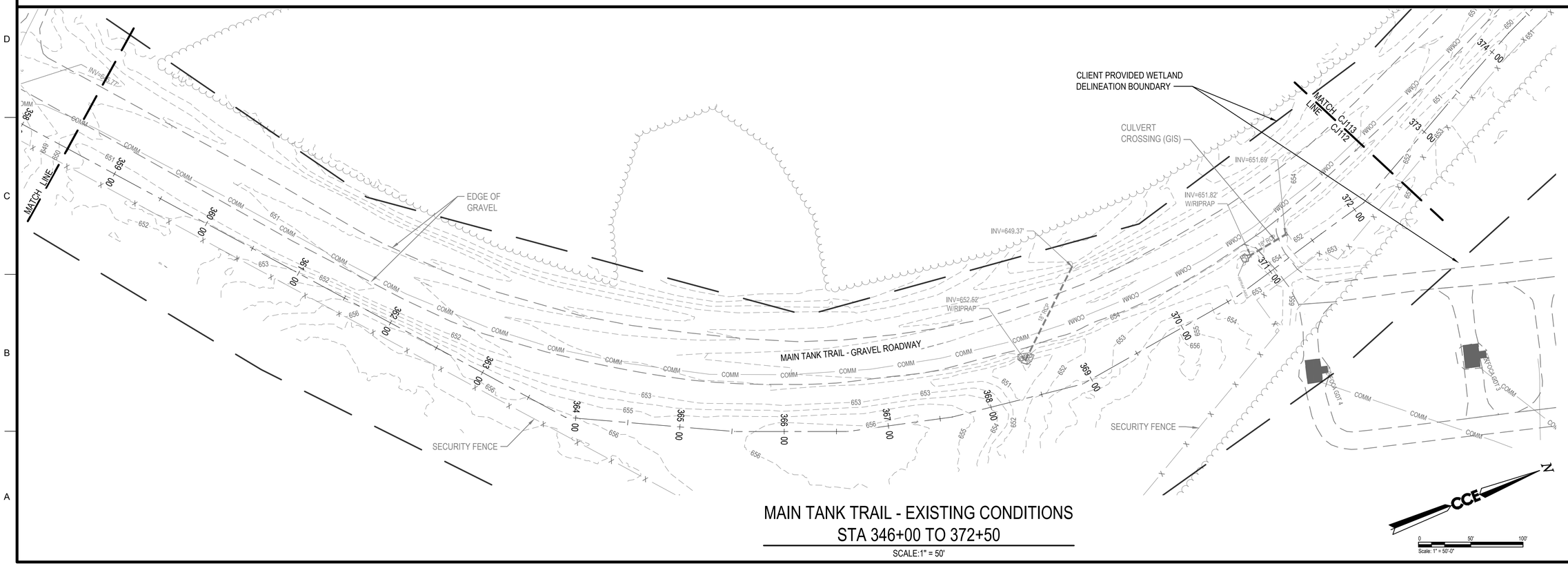
MAIN TANK TRAIL - EXISTING CONDITIONS
STA 321+00 TO 346+00

SHEET ID
CJ111

NOTES:

1. CENTERLINE ALIGNMENT AND STATIONING FOLLOWS PROPOSED NON-POTABLE WATER MAIN CENTERLINE.





MAIN TANK TRAIL - EXISTING CONDITIONS
STA 346+00 TO 372+50

SCALE:1" = 50'

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE
C	FINAL DB-RFP	06/09/2026
B	PRE-FINAL DB-RFP	02/27/2026
A	DRAFT DB-RFP	01/13/2026

ISSUE DATE: 06/09/2026
SOLICITATION NO.:
CONTRACT NO.:
DRAWING CODE:
SHEET 16 OF 66

DESIGNED BY: LDA
DRAWN BY: DSE
CHECKED BY: HLS
SUBMITTED BY: RED
SIZE: ANSI D
SCALE: AS SHOWN

U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
26 FEDERAL PLAZA
NEW YORK, NY 10278

47A York St
Portland, ME 04101
207.553.7753

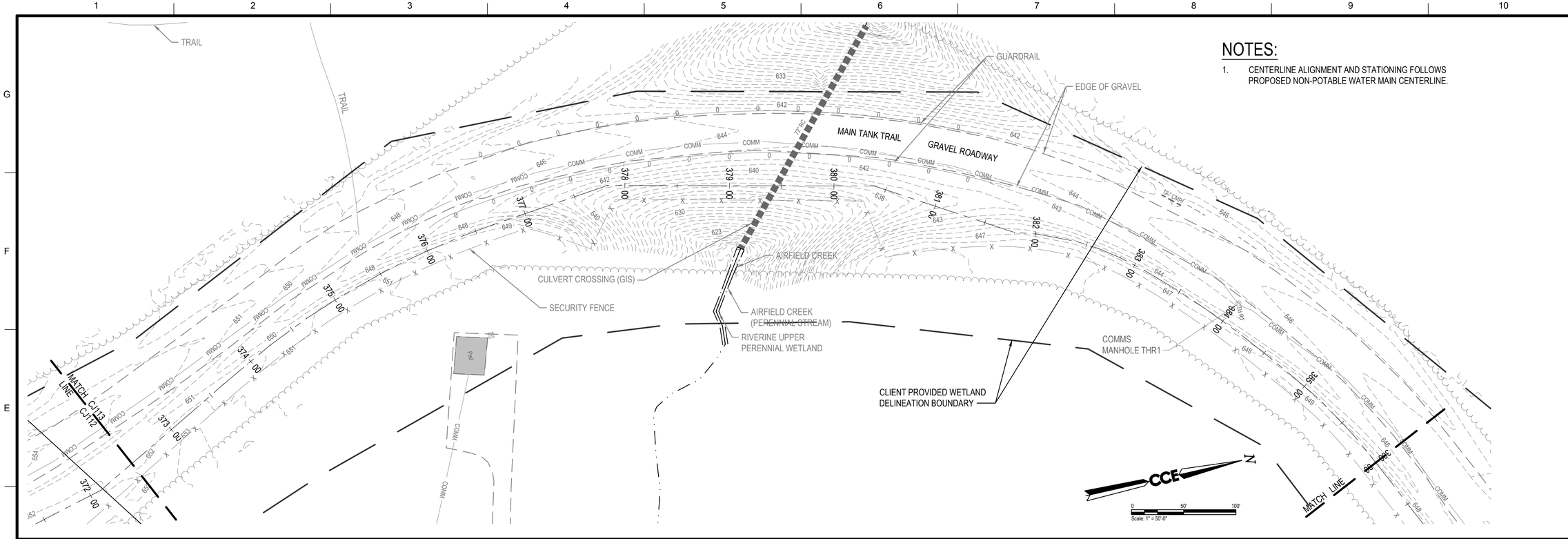
FORT DRUM - WELLS FIELD EXPANSION DB-RFP
FORT DRUM, NEW YORK

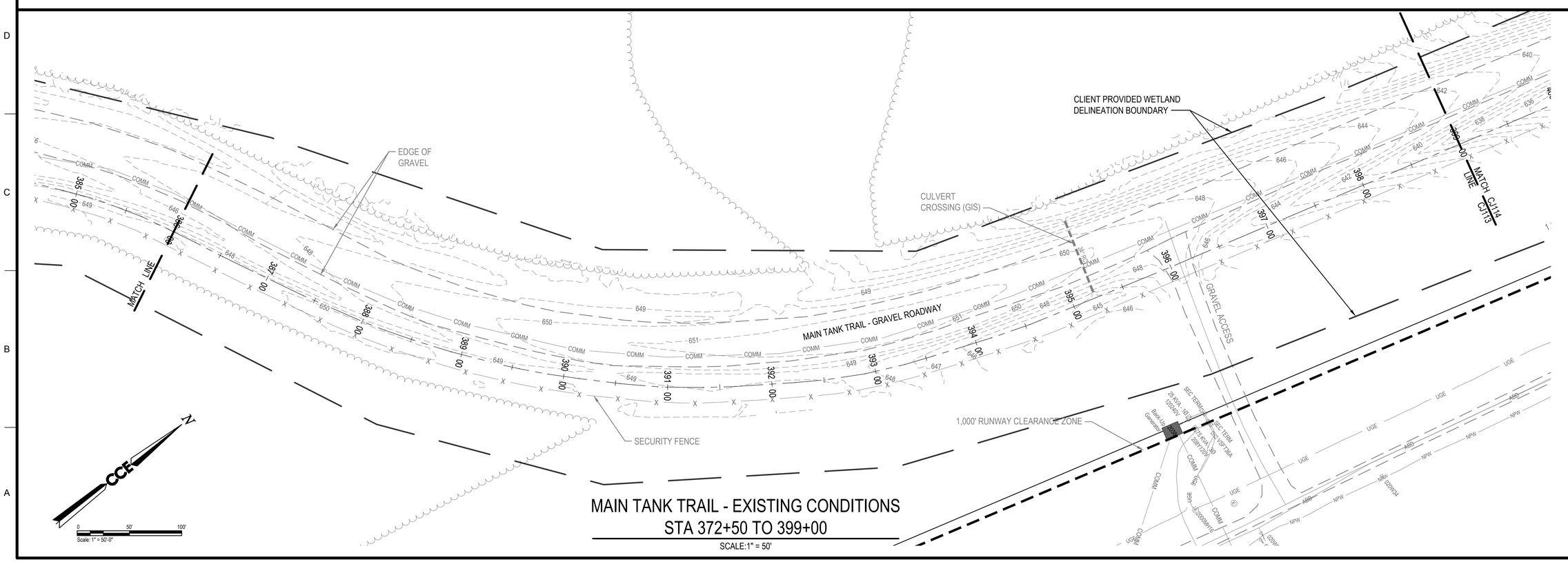
MAIN TANK TRAIL - EXISTING CONDITIONS
STA 346+00 TO 372+50

SHEET ID
CJ112

NOTES:

1. CENTERLINE ALIGNMENT AND STATIONING FOLLOWS PROPOSED NON-POTABLE WATER MAIN CENTERLINE.





MAIN TANK TRAIL - EXISTING CONDITIONS
STA 372+50 TO 399+00

SCALE:1" = 50'

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE
C	FINAL DB-RFP	06/09/2026
B	PRE-FINAL DB-RFP	02/27/2026
A	DRAFT DB-RFP	01/13/2026

ISSUE DATE: 06/09/2026
SOLICITATION NO.:
CONTRACT NO.:
DRAWING CODE:
SHEET 17 OF 66
SCALE: AS SHOWN

DESIGNED BY: LDA
DRAWN BY: DSE
CHECKED BY: HLS
SUBMITTED BY: RDC
SIZE: ANSI D

U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
26 FEDERAL PLAZA
NEW YORK, NY 10278

47A York St
Portland, ME
04101
207.553.7753

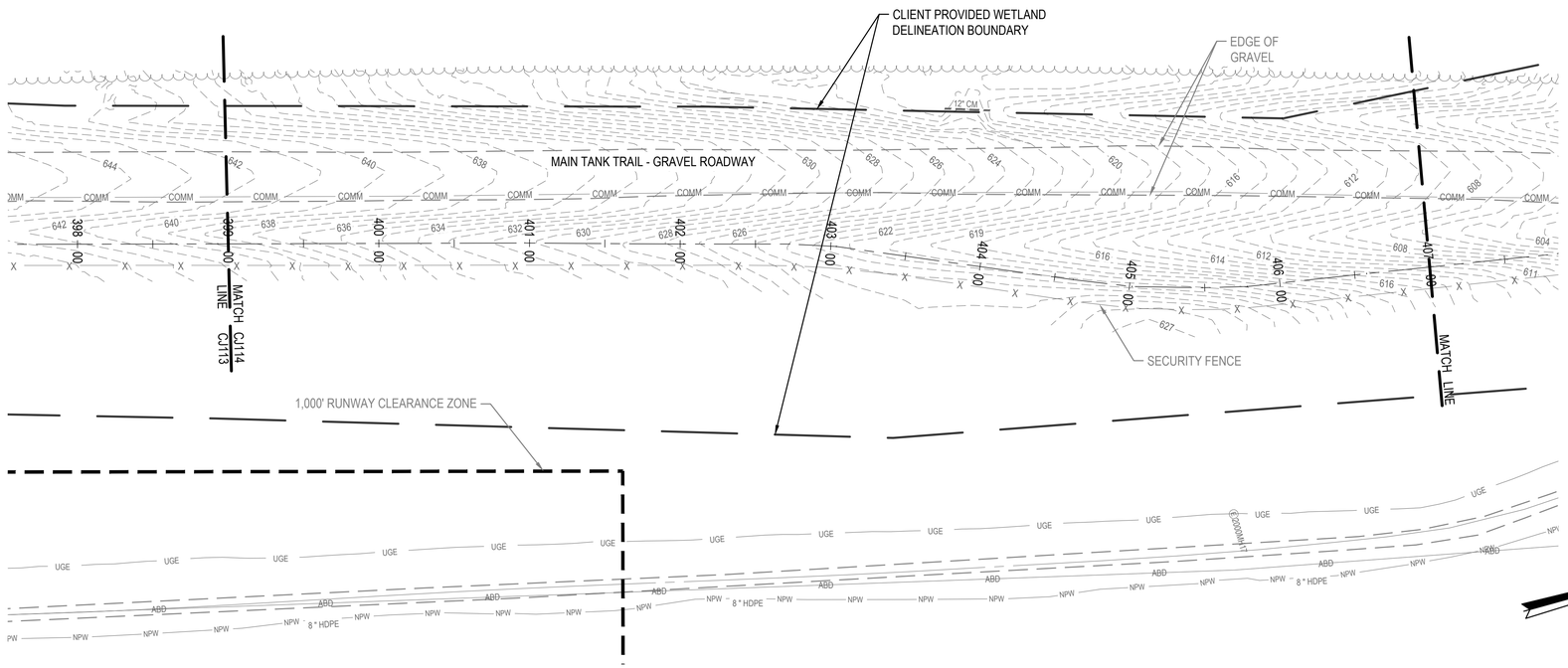
FORT DRUM - WELLS FIELD EXPANSION DB-RFP
FORT DRUM, NEW YORK

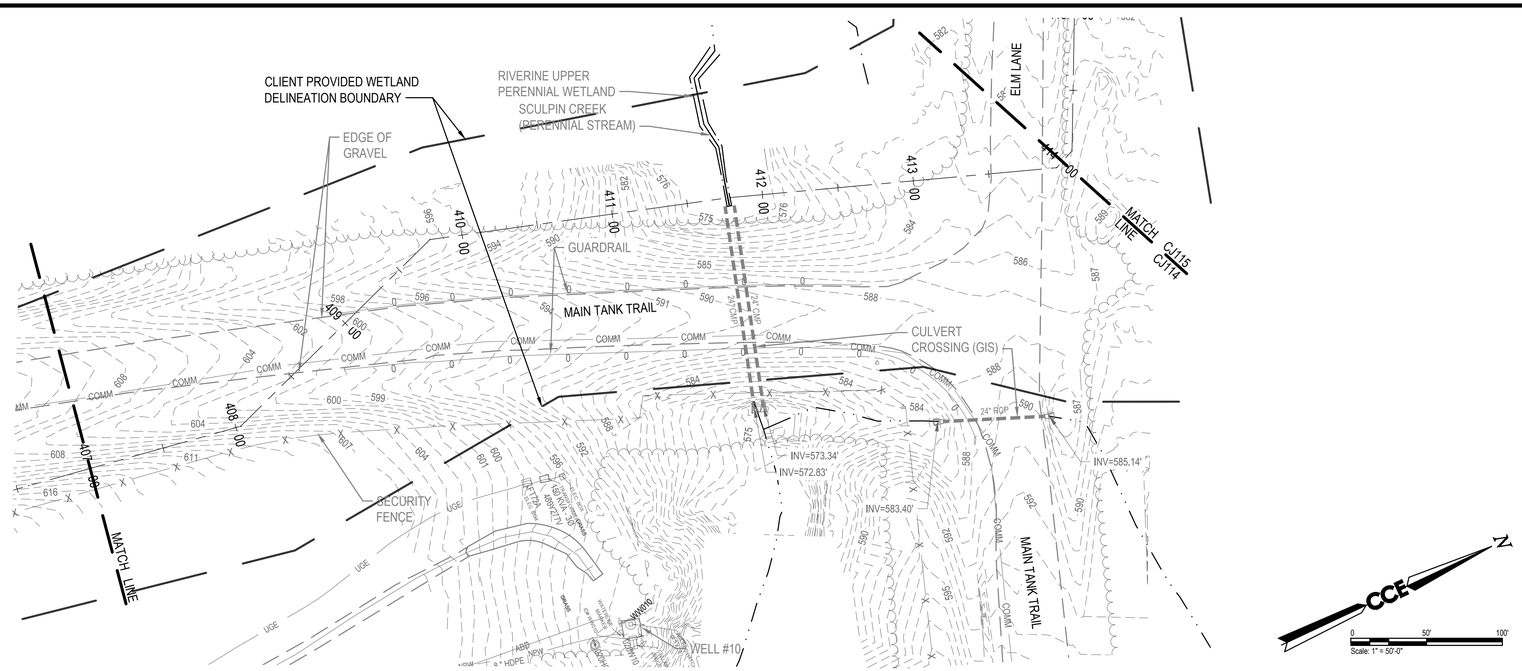
MAIN TANK TRAIL - EXISTING CONDITIONS STA 372+50 TO 399+00

SHEET ID
CJ113

NOTES:

1. CENTERLINE ALIGNMENT AND STATIONING FOLLOWS PROPOSED NON-POTABLE WATER MAIN CENTERLINE.





MAIN TANK TRAIL - EXISTING CONDITIONS
STA 399+00 TO 414+00

SCALE:1" = 50'

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE
C	FINAL DB-RFP	06/09/2026
B	PRE-FINAL DB-RFP	02/27/2026
A	DRAFT DB-RFP	01/13/2026

DESIGNED BY: LDA
DRAWN BY: DSE
CHECKED BY: HLS
SUBMITTED BY: LS
SIZE: ANSI D
ISSUE DATE: 06/09/2026
SOLICITATION NO.:
CONTRACT NO.:
DRAWING CODE:
SCALE: AS SHOWN
SHEET 18 OF 66

U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
26 FEDERAL PLAZA
NEW YORK, NY 10278

47A York St
Portland, ME
04101
207.553.7753

FORT DRUM - WELLS FIELD EXPANSION DB-RFP
FORT DRUM, NEW YORK

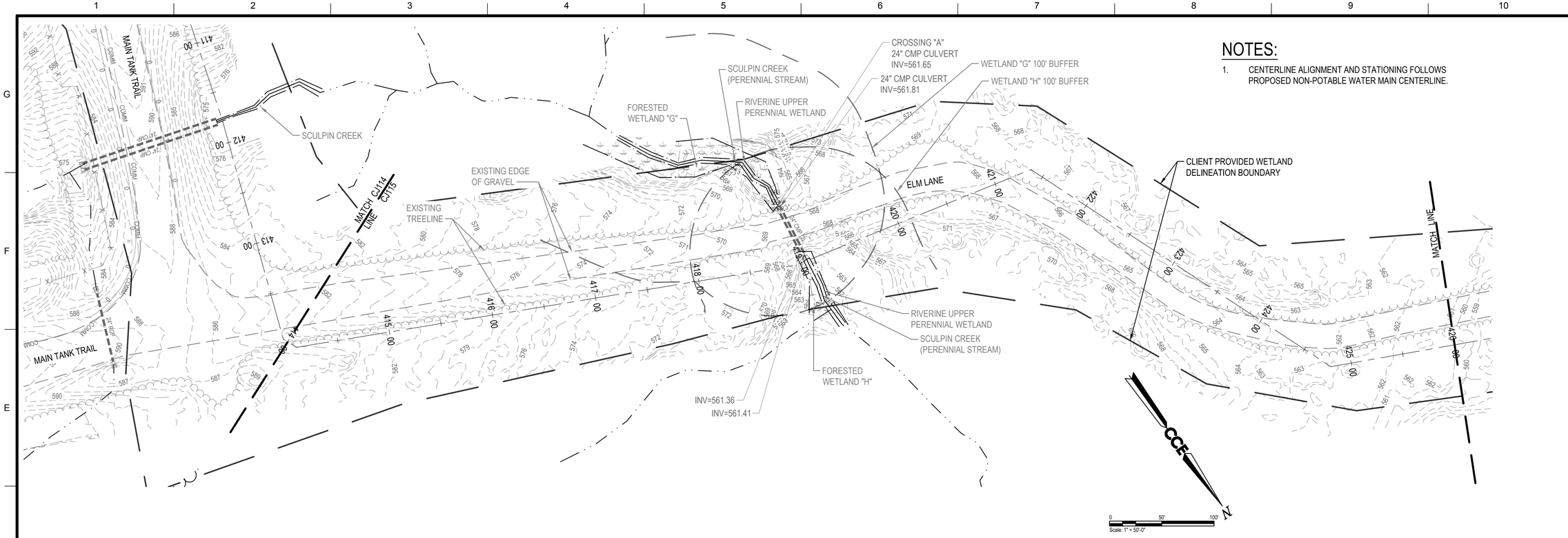
MAIN TANK TRAIL - EXISTING CONDITIONS
STA 399+00 TO 414+00

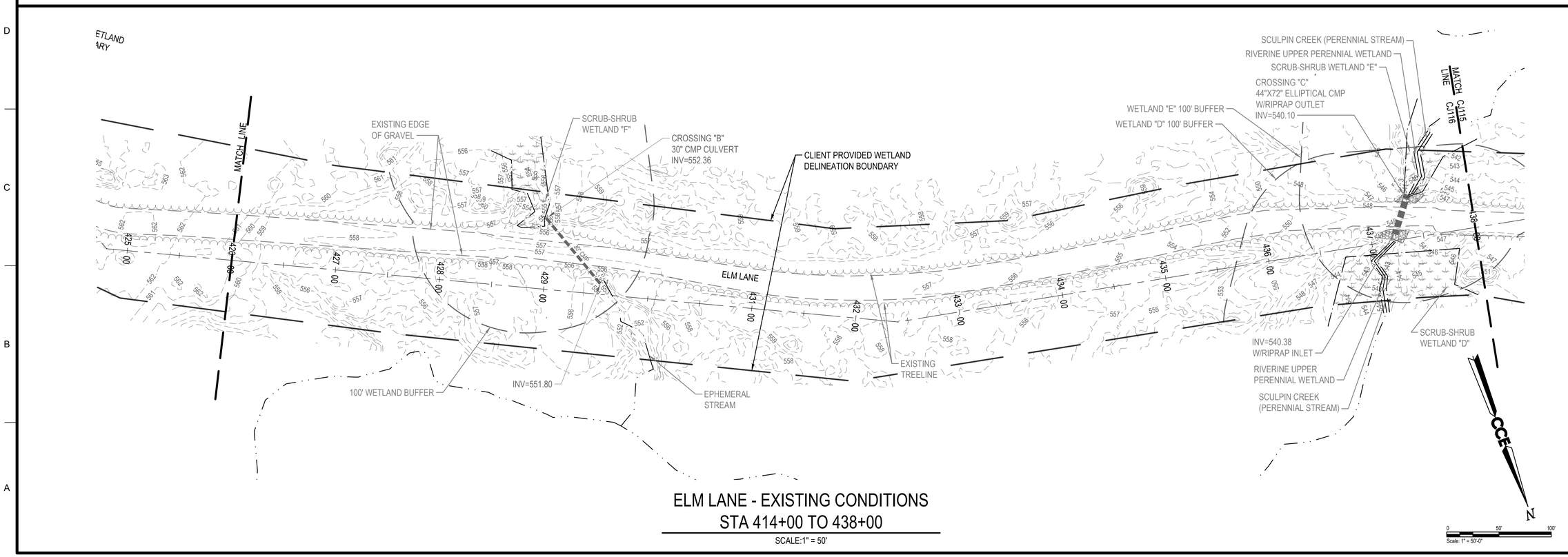
SHEET ID

CJ114

NOTES:

1. CENTERLINE ALIGNMENT AND STATIONING FOLLOWS PROPOSED NON-POTABLE WATER MAIN CENTERLINE.





ELM LANE - EXISTING CONDITIONS
STA 414+00 TO 438+00

SCALE:1" = 50'

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE
C	FINAL DB-RFP	06/09/2026
B	PRE-FINAL DB-RFP	02/27/2026
A	DRAFT DB-RFP	01/13/2026

DESIGNED BY: LDA
DRAWN BY: DSE
CHECKED BY: HLS
SUBMITTED BY: RDZ
SIZE: ANSI D
SCALE: AS SHOWN
ISSUE DATE: 06/09/2026
SOLICITATION NO.:
CONTRACT NO.:
DRAWING CODE:
SHEET 19 OF 66

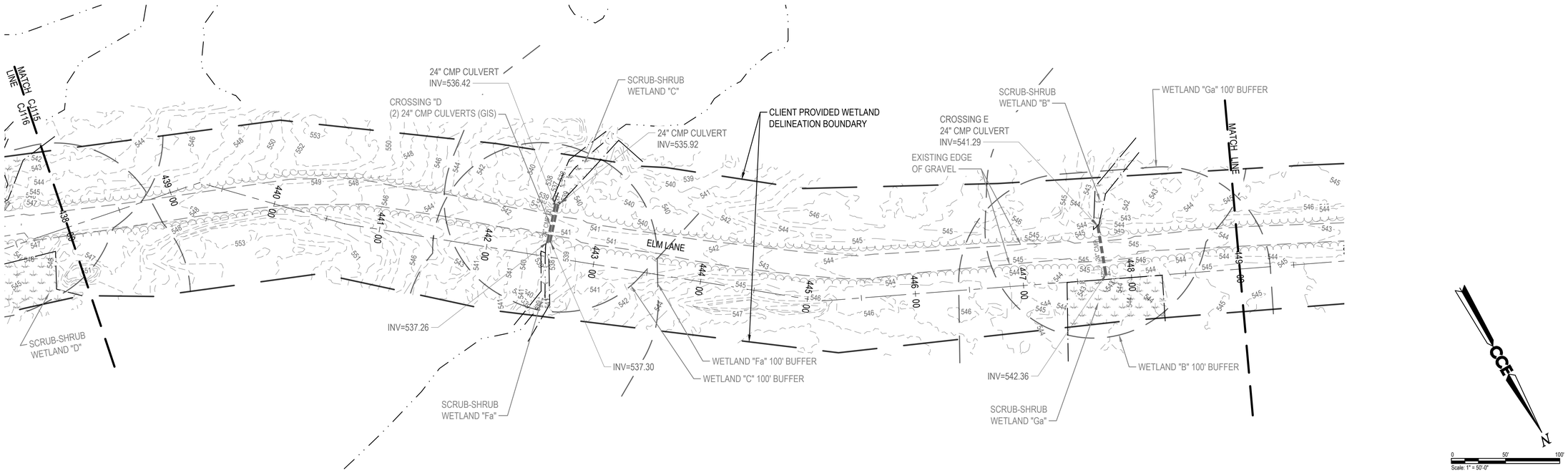
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
26 FEDERAL PLAZA
NEW YORK, NY 10278

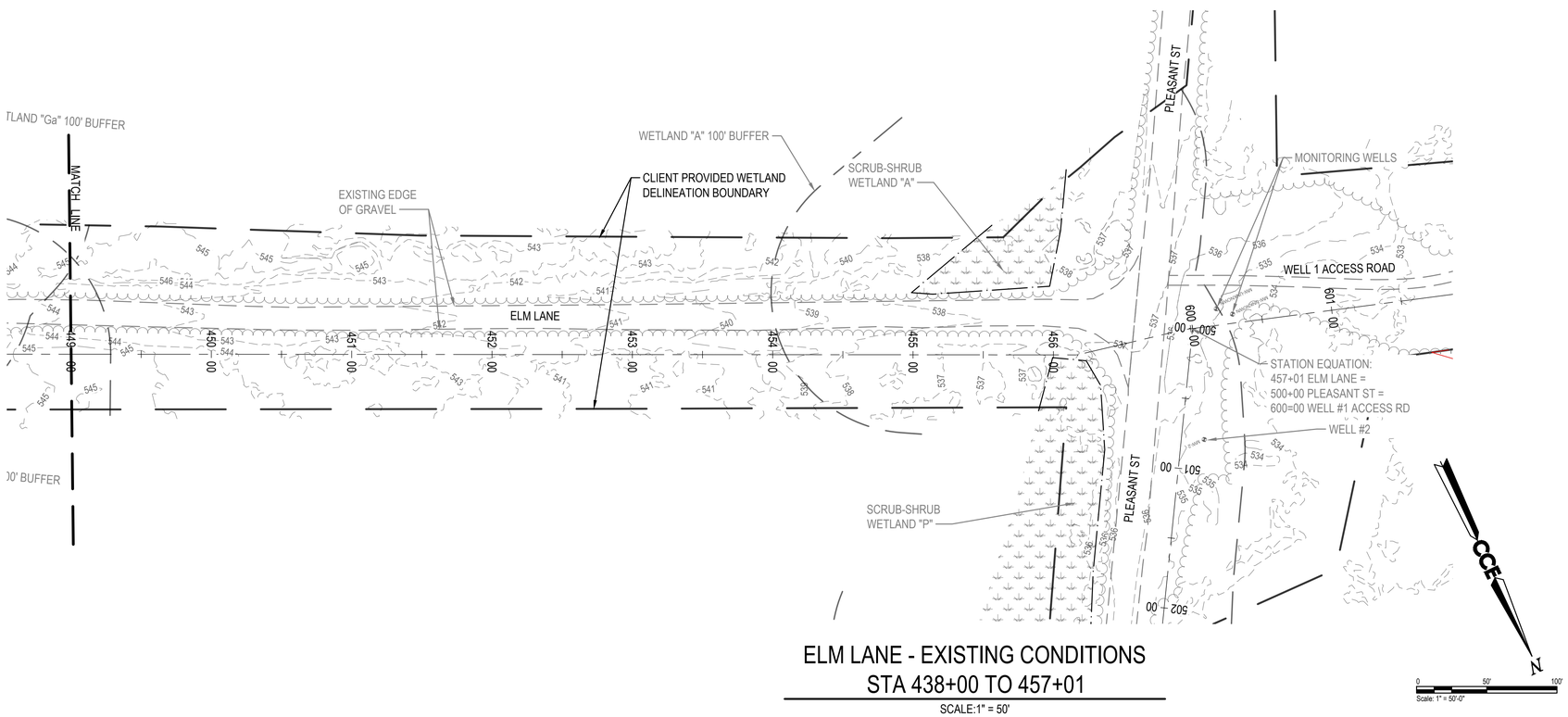
47A York St
Portland, ME
04101
207.553.7753

FORT DRUM - WELLS FIELD EXPANSION DB-RFP
FORT DRUM, NEW YORK

ELM LANE - EXISTING CONDITIONS
STA 414+00 TO 438+00

SHEET ID
CJ115





ELM LANE - EXISTING CONDITIONS
STA 438+00 TO 457+01

SCALE:1" = 50'

NOTES:

1. CENTERLINE ALIGNMENT AND STATIONING FOLLOWS PROPOSED NON-POTABLE WATER MAIN CENTERLINE.
2. SEE SHEET CJ109 FOR CONTINUATION OF WELL 1 ACCESS ROAD
3. SEE SHEET CJ105 FOR SOUTH CONTINUATION OF PLEASANT STREET
4. SEE SHEET CJ106 FOR NORTH CONTINUATION OF PLEASANT STREET

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE
C	FINAL DB-RFP	06/09/2026
B	PRE-FINAL DB-RFP	02/27/2026
A	DRAFT DB-RFP	01/13/2026

DESIGNED BY: LDA
DRAWN BY: DSE
CHECKED BY: HLS
SUBMITTED BY: RLC
SIZE: ANSI D
SCALE: AS SHOWN
ISSUE DATE: 06/09/2026
SOLICITATION NO.:
CONTRACT NO.:
DRAWING CODE:
SHEET 20 OF 66

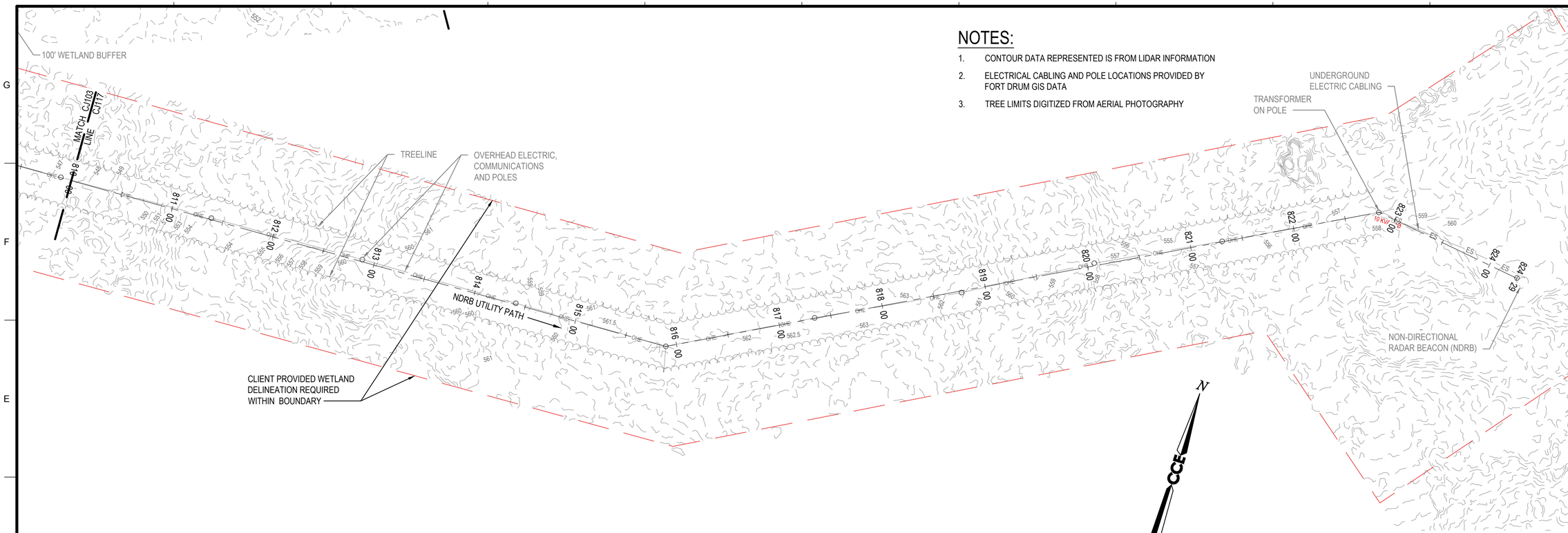
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
26 FEDERAL PLAZA
NEW YORK, NY 10278

47A York St
Portland, ME
04101
207.553.7753

FORT DRUM - WELLS FIELD EXPANSION DB-RFP
FORT DRUM, NEW YORK

ELM LANE - EXISTING CONDITIONS
STA 438+00 TO 457+01

SHEET ID
CJ116



NOTES:

1. CONTOUR DATA REPRESENTED IS FROM LIDAR INFORMATION
2. ELECTRICAL CABLING AND POLE LOCATIONS PROVIDED BY FORT DRUM GIS DATA
3. TREE LIMITS DIGITIZED FROM AERIAL PHOTOGRAPHY

NON-DIRECTIONAL RADAR BEACON UTILITY - EXISTING CONDITIONS
STA 800+00 TO 824+29

SCALE:1" = 50'

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE
C	FINAL DB-RFP	06/09/2026
B	PRE-FINAL DB-RFP	02/27/2026
A	DRAFT DB-RFP	01/13/2026

DESIGNED BY: LDA
DRAWN BY: DSE
CHECKED BY: HLS
SUBMITTED BY: RJ
SIZE: ANSI D
ISSUE DATE: 06/09/2026
SOLICITATION NO.:
CONTRACT NO.:
DRAWING CODE:
SCALE: AS SHOWN
SHEET 21 OF 66

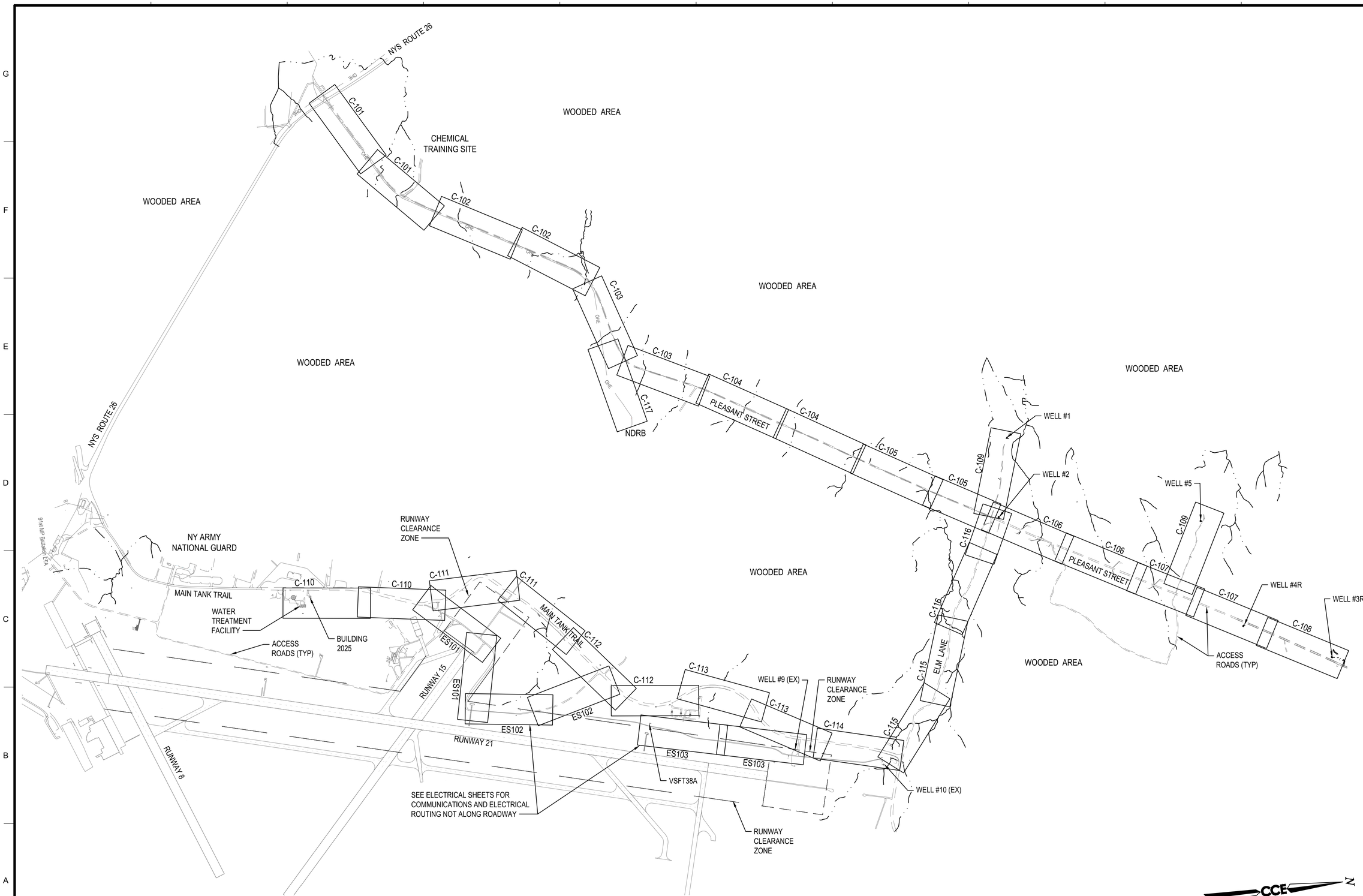
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
26 FEDERAL PLAZA
NEW YORK, NY 10278

CCE
47A York St
Portland, ME 04101
207.553.7753

FORT DRUM - WELLS FIELD EXPANSION DB-RFP
FORT DRUM, NEW YORK

NON-DIRECTIONAL RADAR BEACON UTILITY - EXISTING CONDITIONS STA 800+00 TO 824+29

SHEET ID
CJ117



DESIGN DRAWINGS LAYOUT KEY PLAN

SCALE:1" = 750'

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE
C	FINAL DB-RFP	06/09/2026
B	PRE-FINAL DB-RFP	02/27/2026
A	DRAFT DB-RFP	01/13/2026

DESIGNED BY: LDA
DRAWN BY: DSE
CHECKED BY: HLS
SUBMITTED BY: BLC
SIZE: ANSI D
ISSUE DATE: 06/09/2026
SOLICITATION NO.:
CONTRACT NO.:
DRAWING CODE:
SCALE: AS SHOWN
SHEET 22 OF 66

U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
26 FEDERAL PLAZA
NEW YORK, NY 10278

CCE
475 York St.
Portland, ME
04101
207.553.7753

FORT DRUM - WELLS FIELD EXPANSION DB-RFP
FORT DRUM, NEW YORK

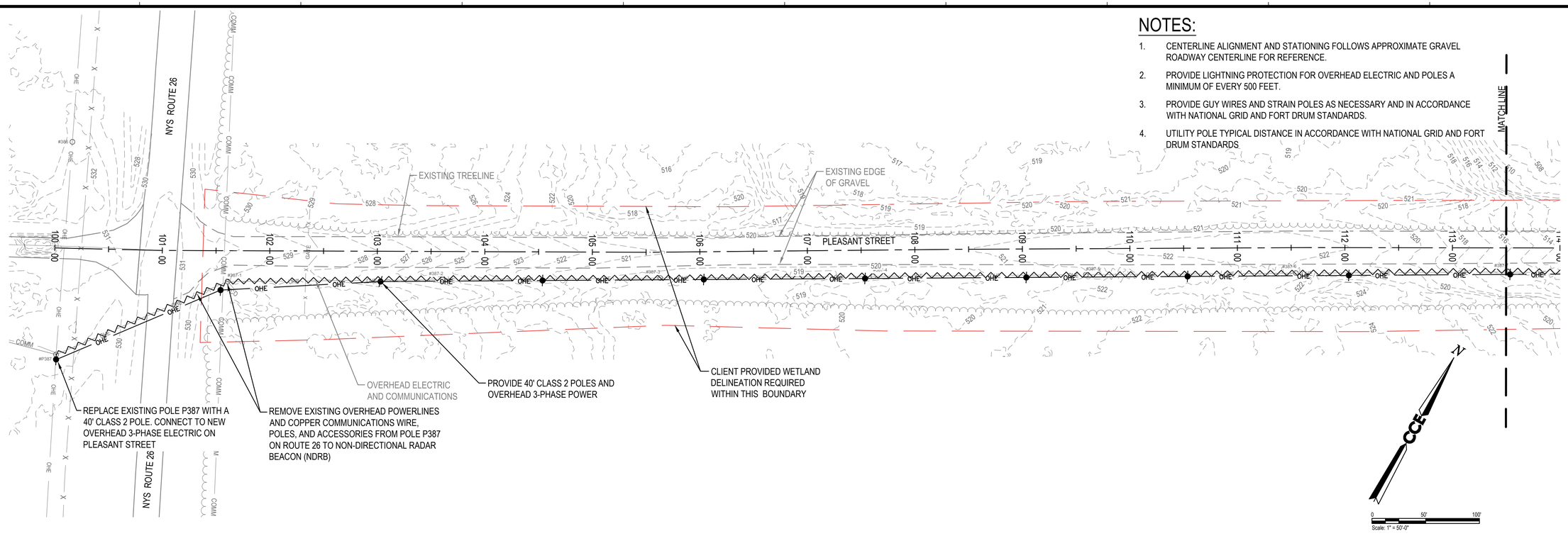
DESIGN DRAWINGS LAYOUT KEY PLAN

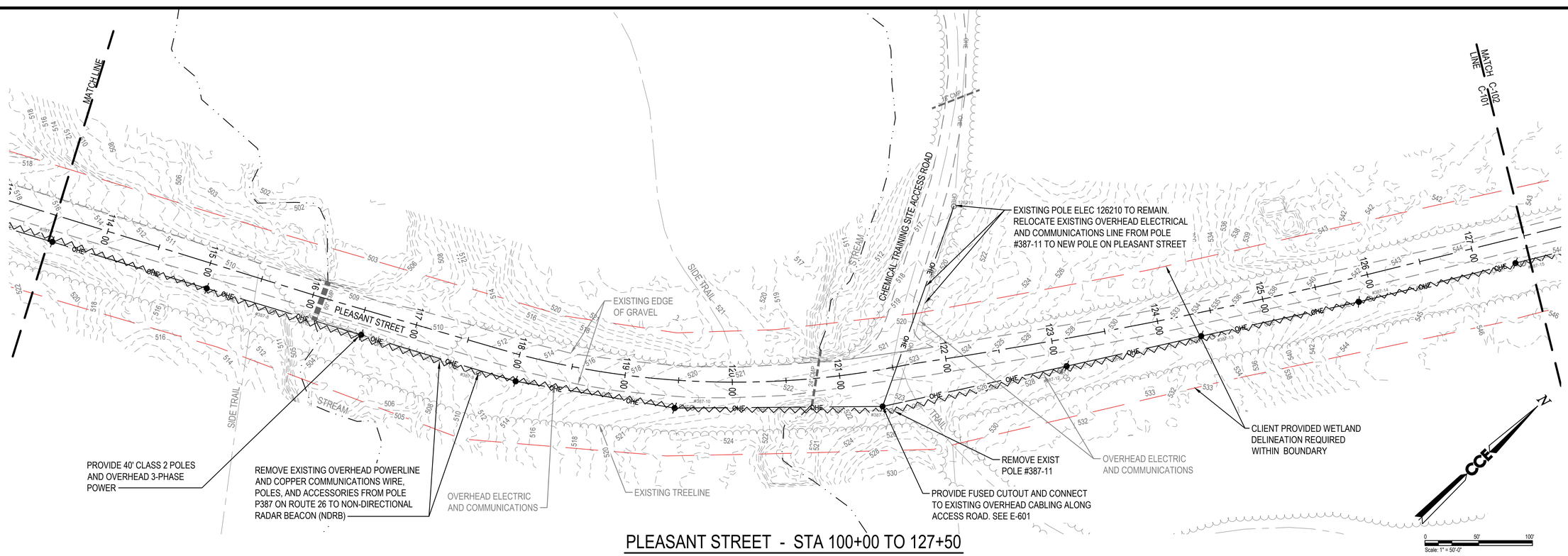
SHEET ID

C-100

NOTES:

1. CENTERLINE ALIGNMENT AND STATIONING FOLLOWS APPROXIMATE GRAVEL ROADWAY CENTERLINE FOR REFERENCE.
2. PROVIDE LIGHTNING PROTECTION FOR OVERHEAD ELECTRIC AND POLES A MINIMUM OF EVERY 500 FEET.
3. PROVIDE GUY WIRES AND STRAIN POLES AS NECESSARY AND IN ACCORDANCE WITH NATIONAL GRID AND FORT DRUM STANDARDS.
4. UTILITY POLE TYPICAL DISTANCE IN ACCORDANCE WITH NATIONAL GRID AND FORT DRUM STANDARDS.





PLEASANT STREET - STA 100+00 TO 127+50

SCALE:1" = 50'

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE
C	FINAL DB-RFP	06/09/2026
B	PRE-FINAL DB-RFP	02/27/2026
A	DRAFT DB-RFP	01/13/2026

ISSUE DATE: 06/09/2026
SOLICITATION NO.:
CONTRACT NO.:
DRAWING CODE:
SHEET 23 OF 66
SCALE: AS SHOWN
SIZE: ANSI D

DESIGNED BY: LDA
DRAWN BY: DSE
CHECKED BY: HLS
SUBMITTED BY: RJC

U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
26 FEDERAL PLAZA
NEW YORK, NY 10278

CORE Consulting LLC
CCE
47A York St
Portland, ME
04101
207.553.7753

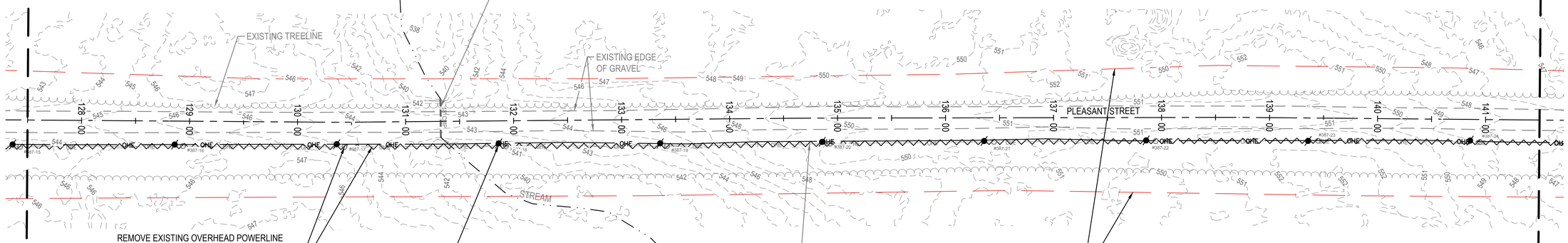
FORT DRUM - WELLS FIELD EXPANSION DB-RFP
FORT DRUM, NEW YORK

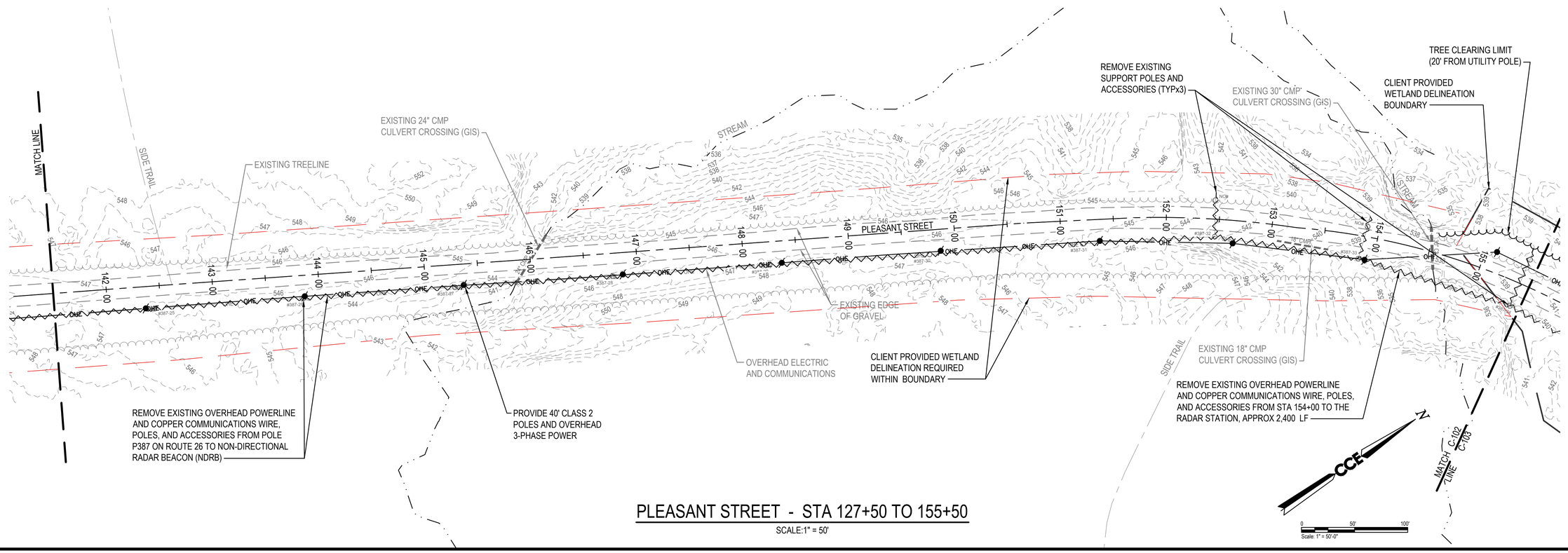
DESIGN PLAN
PLEASANT STREET - STA 100+00 TO 127+50

SHEET ID
C-101

NOTES:

1. CENTERLINE ALIGNMENT AND STATIONING FOLLOWS APPROXIMATE GRAVEL ROADWAY CENTERLINE FOR REFERENCE.
2. PROVIDE LIGHTNING PROTECTION FOR OVERHEAD ELECTRIC AND POLES A MINIMUM OF EVERY 500 FEET.
3. PROVIDE GUY WIRES AND STRAIN POLES AS NECESSARY AND IN ACCORDANCE WITH NATIONAL GRID AND FORT DRUM STANDARDS.
4. UTILITY POLE TYPICAL DISTANCE IN ACCORDANCE WITH NATIONAL GRID AND FORT DRUM STANDARDS





PLEASANT STREET - STA 127+50 TO 155+50

SCALE:1" = 50'

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE
C	FINAL DB-RFP	06/09/2026
B	PRE-FINAL DB-RFP	02/27/2026
A	DRAFT DB-RFP	01/13/2026

DESIGNED BY: LDA
DRAWN BY: DSE
CHECKED BY: HLS
SUBMITTED BY: RLC
SIZE: ANSI D
SCALE: AS SHOWN
ISSUE DATE: 06/09/2026
SOLICITATION NO.:
CONTRACT NO.:
DRAWING CODE:
SHEET 24 OF 66

U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
26 FEDERAL PLAZA
NEW YORK, NY 10278

CCE
47A York St
Portland, ME 04101
207.553.7793

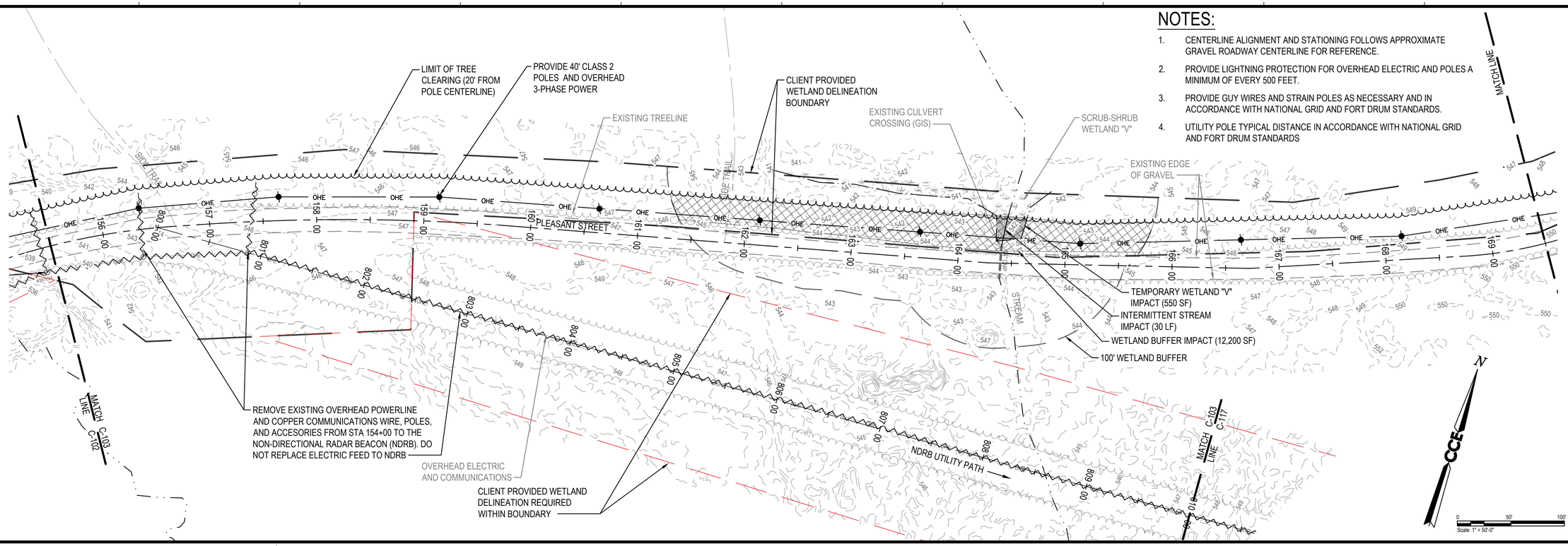
FORT DRUM - WELLS FIELD EXPANSION DB-RFP
FORT DRUM, NEW YORK

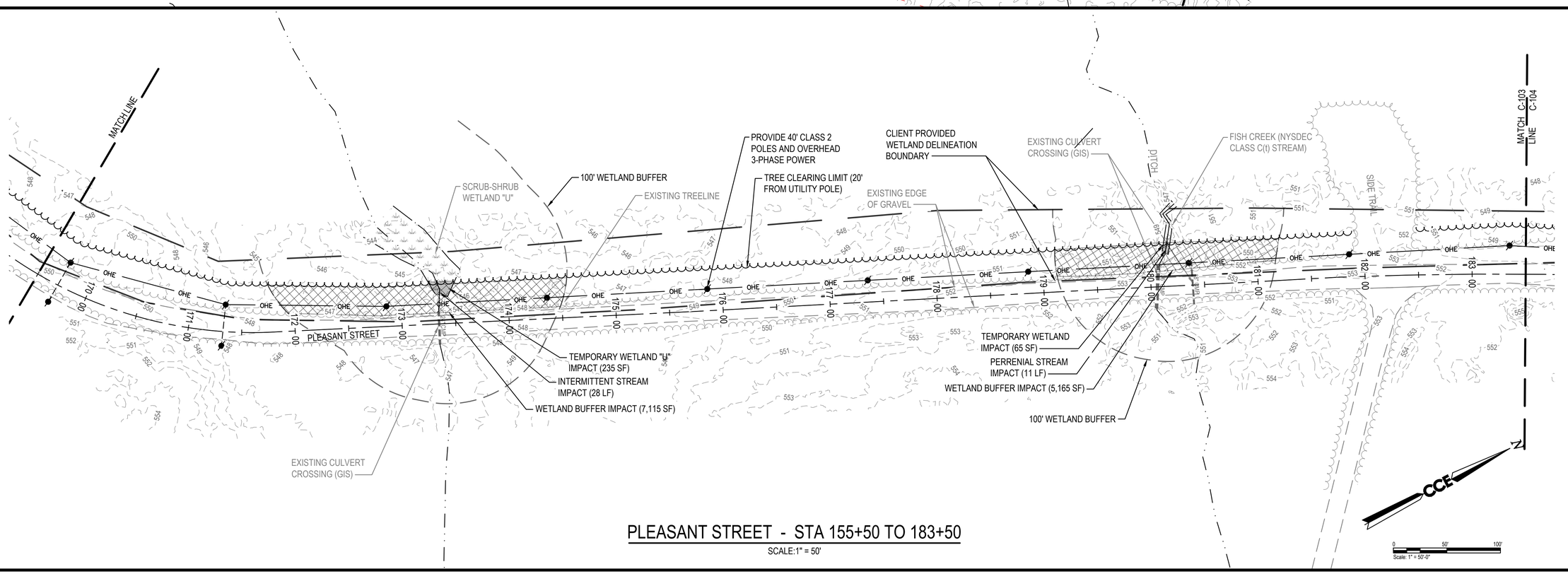
DESIGN PLAN
PLEASANT STREET - STA 127+50 TO 155+50

SHEET ID
C-102

NOTES:

1. CENTERLINE ALIGNMENT AND STATIONING FOLLOWS APPROXIMATE GRAVEL ROADWAY CENTERLINE FOR REFERENCE.
2. PROVIDE LIGHTNING PROTECTION FOR OVERHEAD ELECTRIC AND POLES A MINIMUM OF EVERY 500 FEET.
3. PROVIDE GUY WIRES AND STRAIN POLES AS NECESSARY AND IN ACCORDANCE WITH NATIONAL GRID AND FORT DRUM STANDARDS.
4. UTILITY POLE TYPICAL DISTANCE IN ACCORDANCE WITH NATIONAL GRID AND FORT DRUM STANDARDS





PLEASANT STREET - STA 155+50 TO 183+50

SCALE:1" = 50'

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE
C	FINAL DB-RFP	06/09/2026
B	PRE-FINAL DB-RFP	02/27/2026
A	DRAFT DB-RFP	01/13/2026

ISSUE DATE: 06/09/2026
SOLICITATION NO.:
CONTRACT NO.:
DRAWING CODE:
SHEET 25 OF 66

DESIGNED BY: LDA
DRAWN BY: DSE
CHECKED BY: HLS
SUBMITTED BY: RLO
SIZE: ANSI D
SCALE: AS SHOWN

U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
26 FEDERAL PLAZA
NEW YORK, NY 10278

47A York St
Portland, ME 04101
207.553.7753

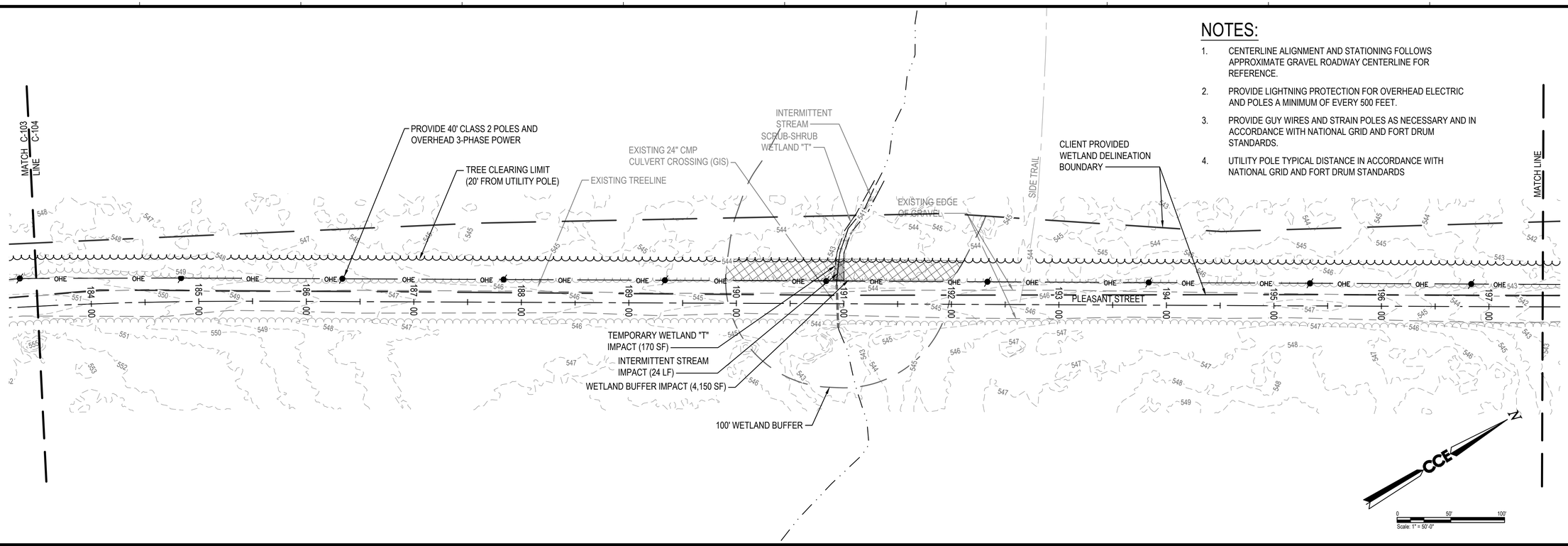
FORT DRUM - WELLS FIELD EXPANSION DB-RFP
FORT DRUM, NEW YORK

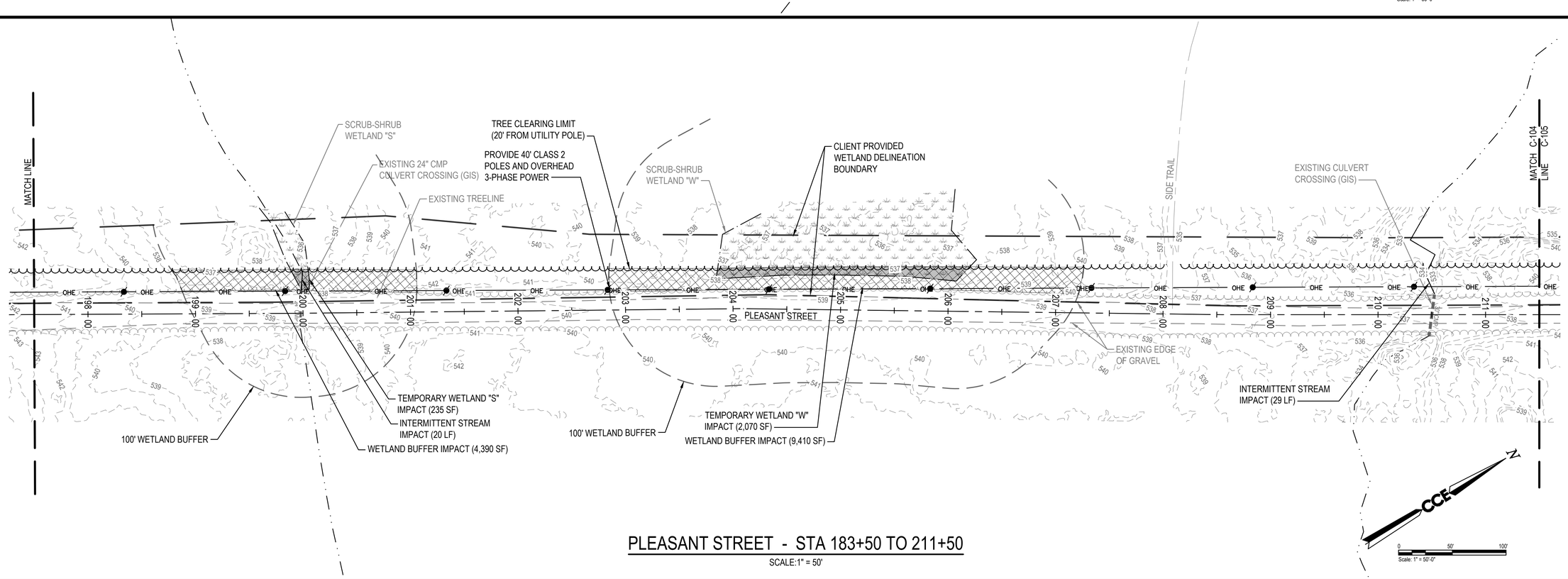
DESIGN PLAN
PLEASANT STREET - STA 155+50 TO 183+50

SHEET ID
C-103

NOTES:

1. CENTERLINE ALIGNMENT AND STATIONING FOLLOWS APPROXIMATE GRAVEL ROADWAY CENTERLINE FOR REFERENCE.
2. PROVIDE LIGHTNING PROTECTION FOR OVERHEAD ELECTRIC AND POLES A MINIMUM OF EVERY 500 FEET.
3. PROVIDE GUY WIRES AND STRAIN POLES AS NECESSARY AND IN ACCORDANCE WITH NATIONAL GRID AND FORT DRUM STANDARDS.
4. UTILITY POLE TYPICAL DISTANCE IN ACCORDANCE WITH NATIONAL GRID AND FORT DRUM STANDARDS





PLEASANT STREET - STA 183+50 TO 211+50

SCALE:1" = 50'

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE
C	FINAL DB-RFP	06/09/2026
B	PRE-FINAL DB-RFP	02/27/2026
A	DRAFT DB-RFP	01/13/2026

DESIGNED BY: LDA
DRAWN BY: DSE
CHECKED BY: HLS
SUBMITTED BY: RLC
SIZE: ANSI D
ISSUE DATE: 06/09/2026
SOLICITATION NO.:
CONTRACT NO.:
DRAWING CODE: DTL
SCALE: AS SHOWN
SHEET 26 OF 66

U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
26 FEDERAL PLAZA
NEW YORK, NY 10278

47A York St.
Portland, ME
04101
207.553.7753

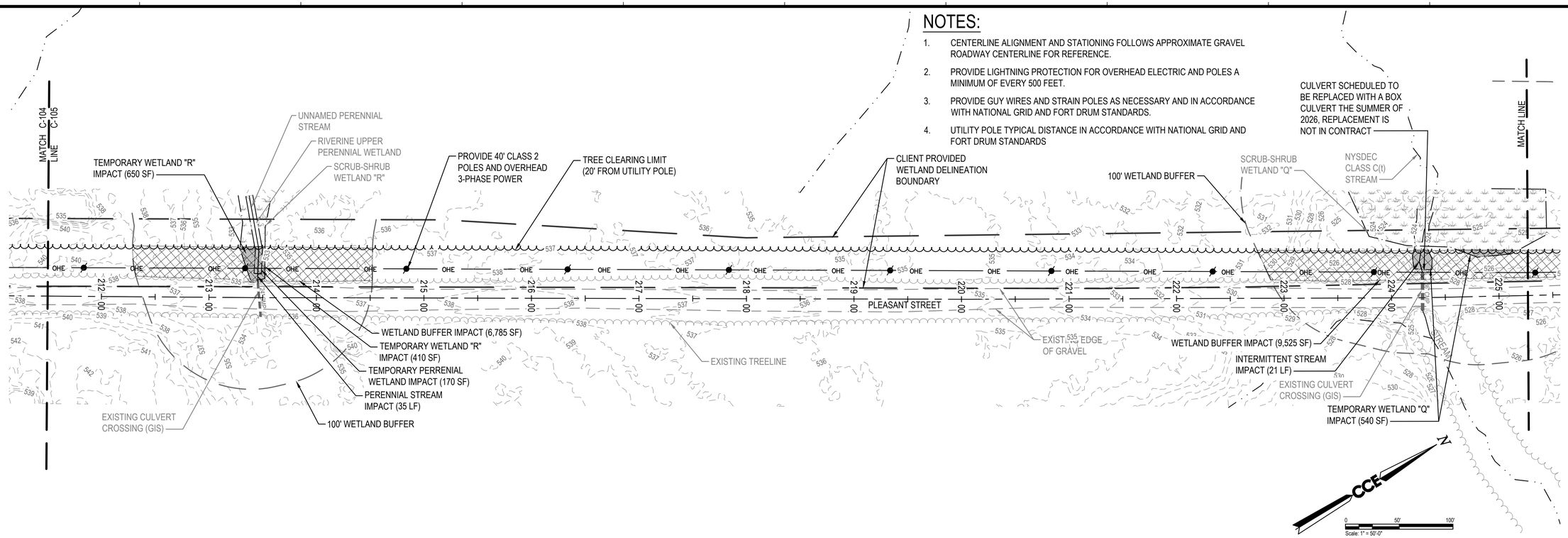
FORT DRUM - WELLS FIELD EXPANSION DB-RFP
FORT DRUM, NEW YORK

DESIGN PLAN
PLEASANT STREET - STA 183+50 TO 211+50

SHEET ID
C-104

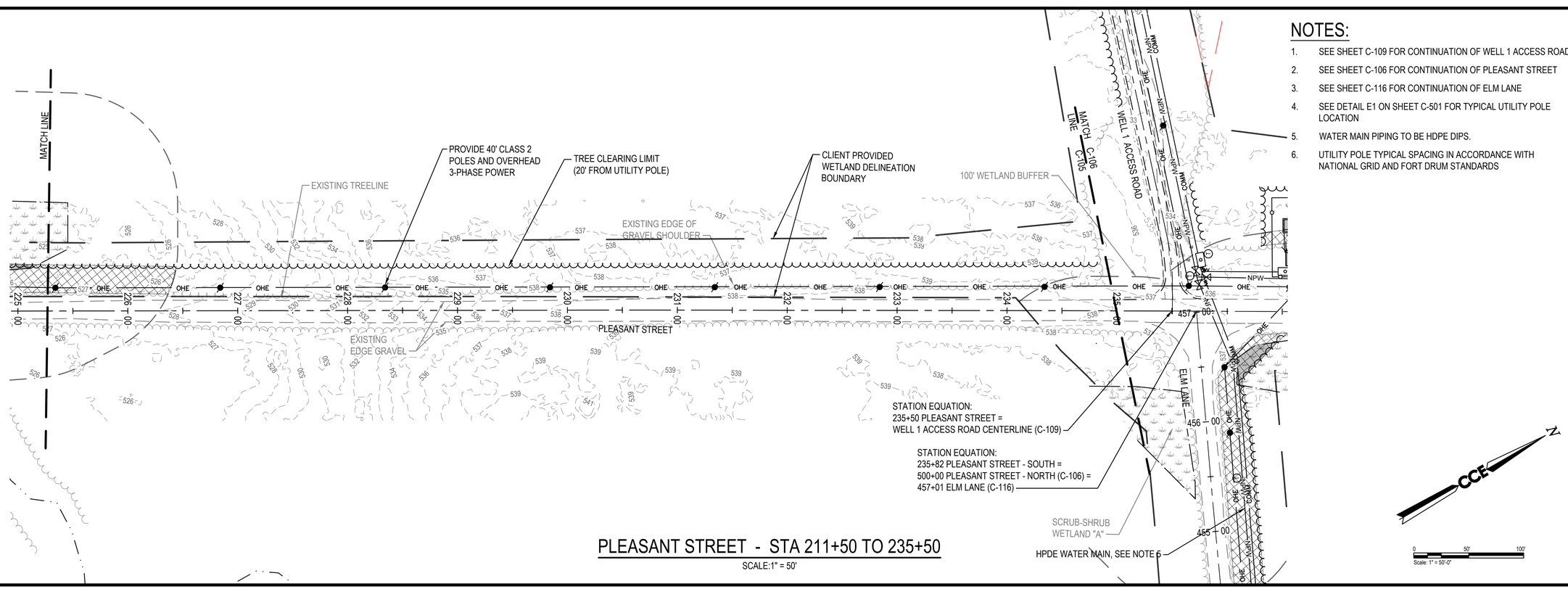
NOTES:

1. CENTERLINE ALIGNMENT AND STATIONING FOLLOWS APPROXIMATE GRAVEL ROADWAY CENTERLINE FOR REFERENCE.
2. PROVIDE LIGHTNING PROTECTION FOR OVERHEAD ELECTRIC AND POLES A MINIMUM OF EVERY 500 FEET.
3. PROVIDE GUY WIRES AND STRAIN POLES AS NECESSARY AND IN ACCORDANCE WITH NATIONAL GRID AND FORT DRUM STANDARDS.
4. UTILITY POLE TYPICAL DISTANCE IN ACCORDANCE WITH NATIONAL GRID AND FORT DRUM STANDARDS



NOTES:

1. SEE SHEET C-109 FOR CONTINUATION OF WELL 1 ACCESS ROAD
2. SEE SHEET C-106 FOR CONTINUATION OF PLEASANT STREET
3. SEE SHEET C-116 FOR CONTINUATION OF ELM LANE
4. SEE DETAIL E1 ON SHEET C-501 FOR TYPICAL UTILITY POLE LOCATION
5. WATER MAIN PIPING TO BE HDPE DIPS.
6. UTILITY POLE TYPICAL SPACING IN ACCORDANCE WITH NATIONAL GRID AND FORT DRUM STANDARDS



PLEASANT STREET - STA 211+50 TO 235+50

SCALE:1" = 50'

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE
C	FINAL DB-RFP	06/09/2026
B	PRE-FINAL DB-RFP	02/27/2026
A	DRAFT DB-RFP	01/13/2026

DESIGNED BY: LDA
DRAWN BY: DSE
CHECKED BY: HLS
SUBMITTED BY:
SUBMITTED:
SIZE: ANSI D
ISSUE DATE: 06/09/2026
SOLICITATION NO.:
CONTRACT NO.:
DRAWING CODE:
SCALE: AS SHOWN
SHEET 27 OF 66

U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
26 FEDERAL PLAZA
NEW YORK, NY 10278

CCE
47A York St
Portland, ME
04101
207.553.7753

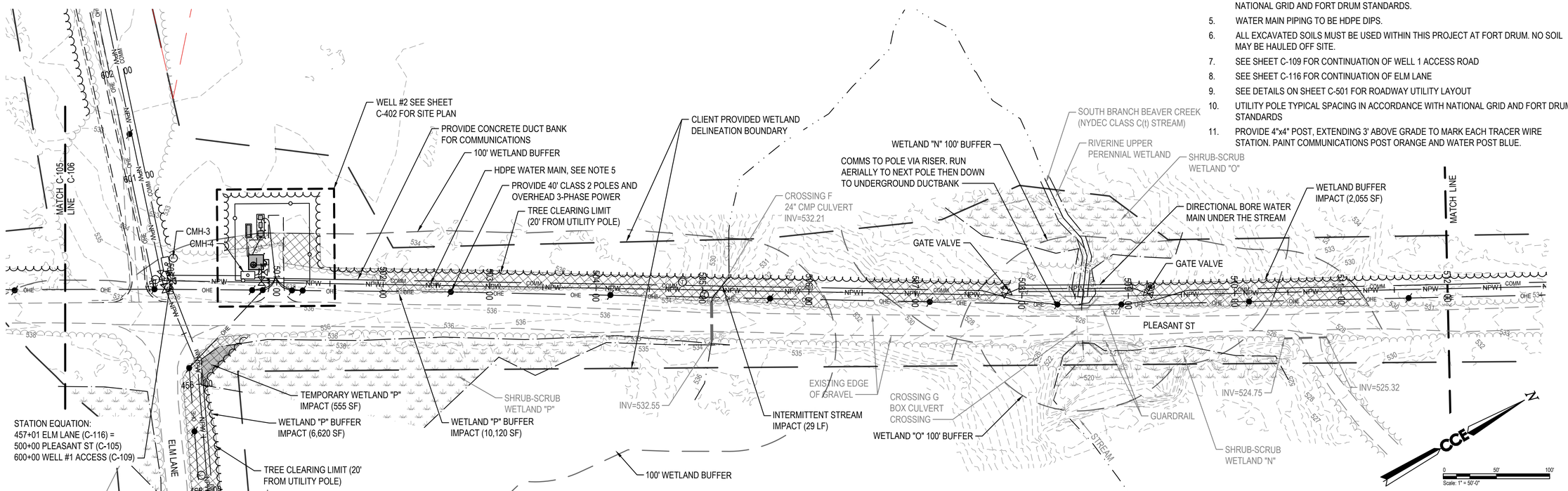
FORT DRUM - WELLS FIELD EXPANSION DB-RFP
FORT DRUM, NEW YORK

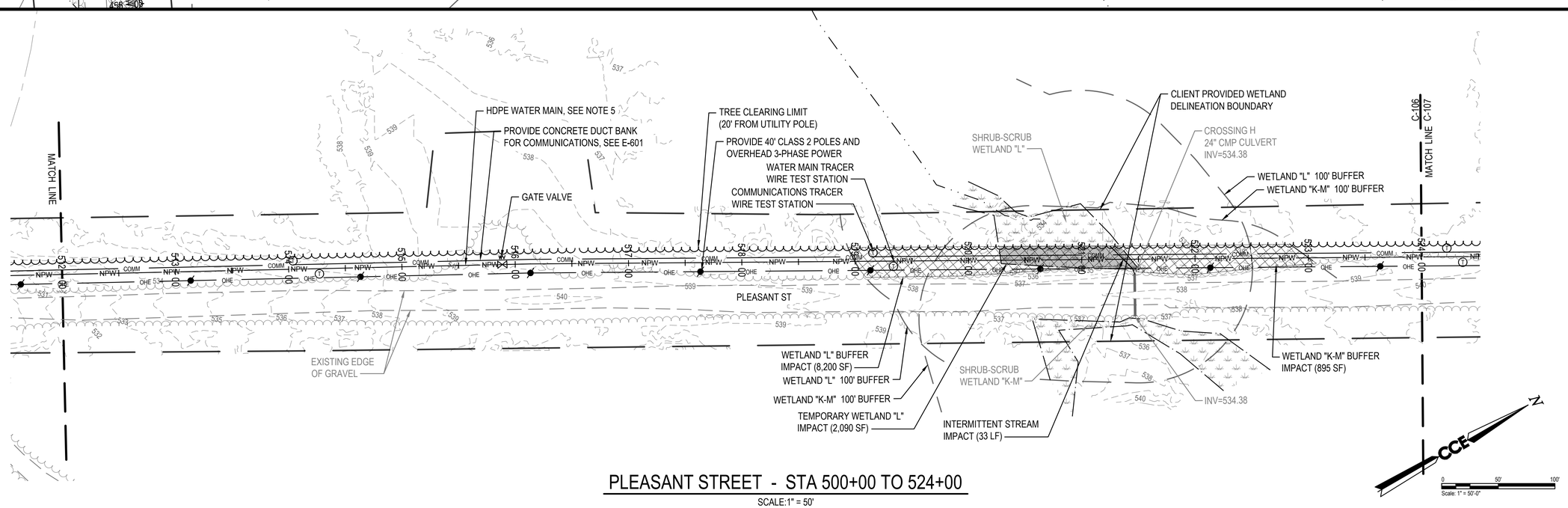
DESIGN PLAN
PLEASANT STREET - STA 211+50 TO 235+50

SHEET ID
C-105

NOTES:

1. CENTERLINE ALIGNMENT AND STATIONING FOLLOWS PROPOSED NON-POTABLE WATER MAIN CENTERLINE.
2. OVERHEAD LINES REQUIRE FAA APPROVED OVERHEAD CABLE VISIBILITY MARKERS FROM STA 500+00 TO STA 544+91.
3. PROVIDE LIGHTNING PROTECTION FOR OVERHEAD ELECTRIC AND POLES A MINIMUM OF EVERY 500 FEET.
4. PROVIDE GUY WIRES AND STRAIN POLES AS NECESSARY AND IN ACCORDANCE WITH NATIONAL GRID AND FORT DRUM STANDARDS.
5. WATER MAIN PIPING TO BE HDPE DIPS.
6. ALL EXCAVATED SOILS MUST BE USED WITHIN THIS PROJECT AT FORT DRUM. NO SOIL MAY BE HAULED OFF SITE.
7. SEE SHEET C-109 FOR CONTINUATION OF WELL 1 ACCESS ROAD
8. SEE SHEET C-116 FOR CONTINUATION OF ELM LANE
9. SEE DETAILS ON SHEET C-501 FOR ROADWAY UTILITY LAYOUT
10. UTILITY POLE TYPICAL SPACING IN ACCORDANCE WITH NATIONAL GRID AND FORT DRUM STANDARDS
11. PROVIDE 4"x4" POST, EXTENDING 3' ABOVE GRADE TO MARK EACH TRACER WIRE STATION. PAINT COMMUNICATIONS POST ORANGE AND WATER POST BLUE.





PLEASANT STREET - STA 500+00 TO 524+00

SCALE:1" = 50'

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE
C	FINAL DB-RFP	06/09/2026
B	PRE-FINAL DB-RFP	02/27/2026
A	DRAFT DB-RFP	01/13/2026

DESIGNED BY: LDA
DRAWN BY: DSE
CHECKED BY: HLS
SUBMITTED BY: RDC
SIZE: ANSI D
ISSUE DATE: 06/09/2026
SOLICITATION NO.:
CONTRACT NO.:
DRAWING CODE:
SHEET 28 OF 66
SCALE: AS SHOWN

U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
26 FEDERAL PLAZA
NEW YORK, NY 10278

472 York St
Portland, ME
04101
207.553.7753

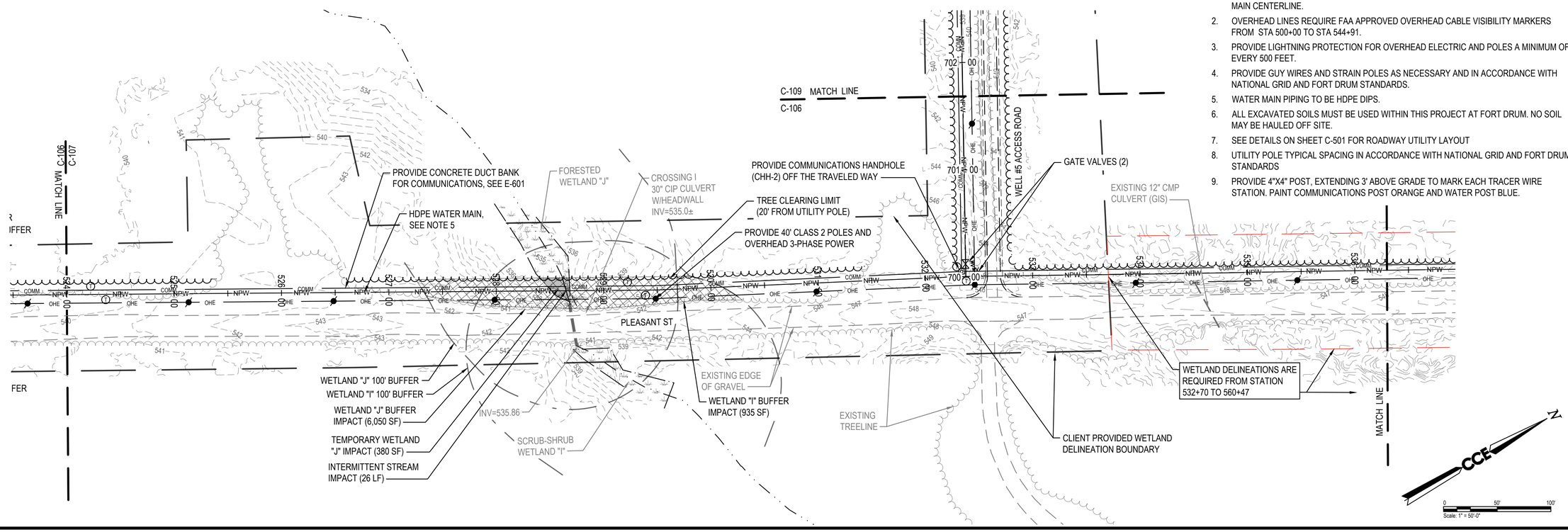
FORT DRUM - WELLS FIELD EXPANSION DB-RFP
FORT DRUM, NEW YORK

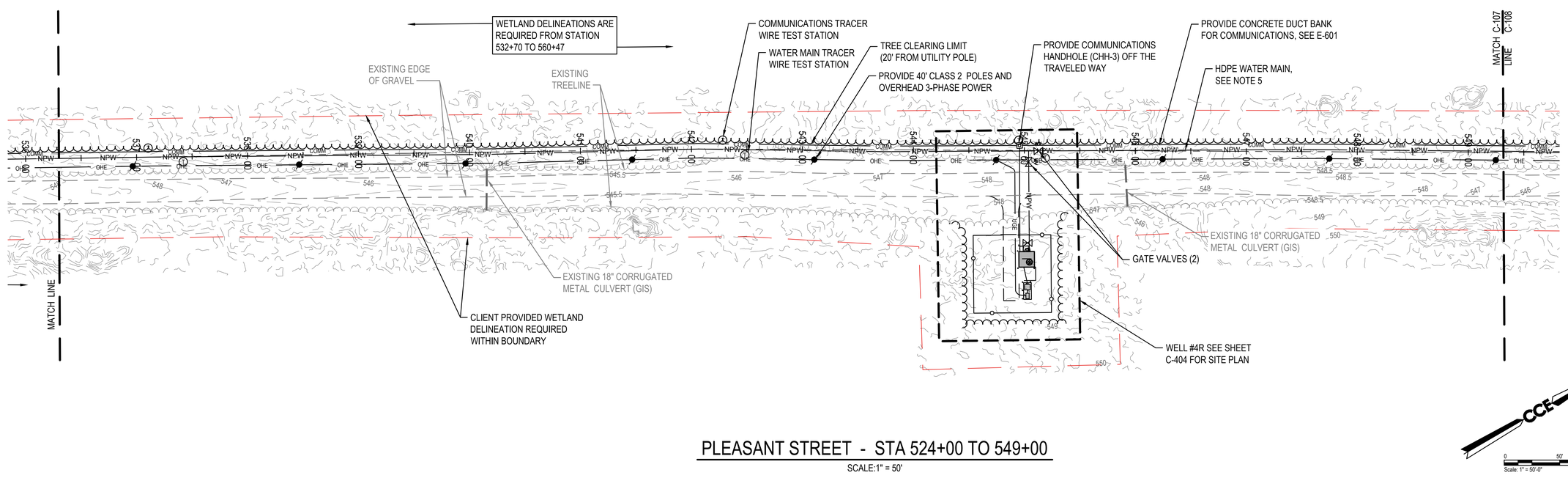
PLAN / PROFILE
PLEASANT STREET - STA 500+00 TO 524+00

SHEET ID
C-106

NOTES:

1. CENTERLINE ALIGNMENT AND STATIONING FOLLOWS PROPOSED NON-POTABLE WATER MAIN CENTERLINE.
2. OVERHEAD LINES REQUIRE FAA APPROVED OVERHEAD CABLE VISIBILITY MARKERS FROM STA 500+00 TO STA 544+91.
3. PROVIDE LIGHTNING PROTECTION FOR OVERHEAD ELECTRIC AND POLES A MINIMUM OF EVERY 500 FEET.
4. PROVIDE GUY WIRES AND STRAIN POLES AS NECESSARY AND IN ACCORDANCE WITH NATIONAL GRID AND FORT DRUM STANDARDS.
5. WATER MAIN PIPING TO BE HDPE DIPS.
6. ALL EXCAVATED SOILS MUST BE USED WITHIN THIS PROJECT AT FORT DRUM. NO SOIL MAY BE HAULED OFF SITE.
7. SEE DETAILS ON SHEET C-501 FOR ROADWAY UTILITY LAYOUT
8. UTILITY POLE TYPICAL SPACING IN ACCORDANCE WITH NATIONAL GRID AND FORT DRUM STANDARDS
9. PROVIDE 4"X4" POST, EXTENDING 3' ABOVE GRADE TO MARK EACH TRACER WIRE STATION. PAINT COMMUNICATIONS POST ORANGE AND WATER POST BLUE.





PLEASANT STREET - STA 524+00 TO 549+00

SCALE:1" = 50'

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE
C	FINAL DB-RFP	06/09/2026
B	PRE-FINAL DB-RFP	02/27/2026
A	DRAFT DB-RFP	01/13/2026

DESIGNED BY: LDA
DRAWN BY: DSE
CHECKED BY: HLS
SUBMITTED BY: DRAWING CODE:
SIZE: ANSI D
SCALE: AS SHOWN
ISSUE DATE: 06/09/2026
SOLICITATION NO.:
CONTRACT NO.:
SHEET 29 OF 66

U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
26 FEDERAL PLAZA
NEW YORK, NY 10278

474 York St
Portland, ME
04101
207.553.7753

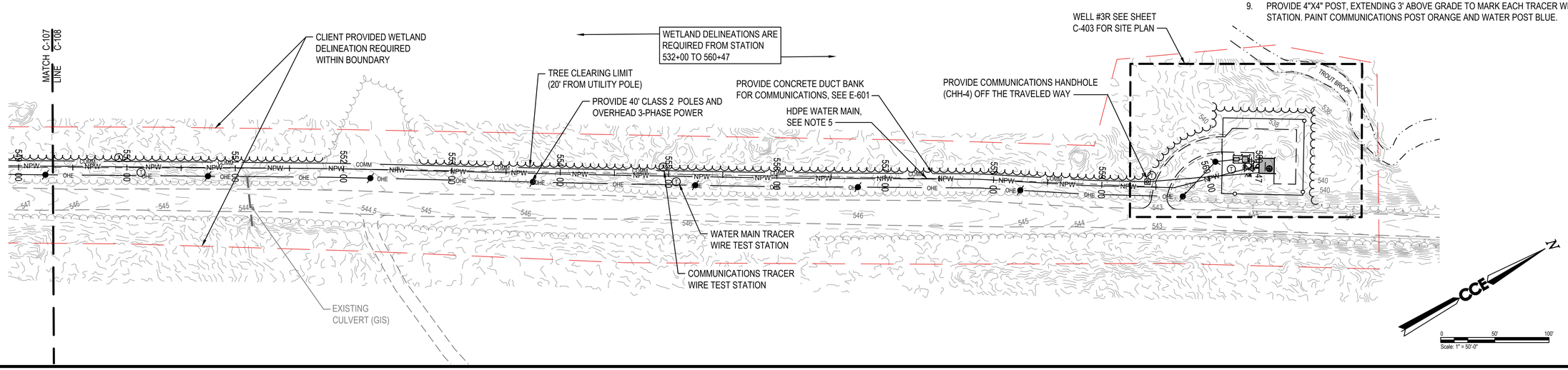
FORT DRUM - WELLS FIELD EXPANSION DB-RFP
FORT DRUM, NEW YORK

PLAN / PROFILE
PLEASANT STREET - STA 524+00 TO 549+00

SHEET ID
C-107

NOTES:

1. CENTERLINE ALIGNMENT AND STATIONING FOLLOWS PROPOSED NON-POTABLE WATER MAIN CENTERLINE.
2. OVERHEAD LINES REQUIRE FAA APPROVED OVERHEAD CABLE VISIBILITY MARKERS FROM STA 500+00 TO STA 544+91.
3. PROVIDE LIGHTNING PROTECTION FOR OVERHEAD ELECTRIC AND POLES A MINIMUM OF EVERY 500 FEET.
4. PROVIDE GUY WIRES AND STRAIN POLES AS NECESSARY AND IN ACCORDANCE WITH NATIONAL GRID AND FORT DRUM STANDARDS.
5. WATER MAIN PIPING TO BE HDPE DIPS.
6. ALL EXCAVATED SOILS MUST BE USED WITHIN THIS PROJECT AT FORT DRUM. NO SOIL MAY BE HAULED OFF SITE.
7. SEE DETAILS ON SHEET C-501 FOR ROADWAY UTILITY LAYOUT
8. UTILITY POLE TYPICAL SPACING IN ACCORDANCE WITH NATIONAL GRID AND FORT DRUM STANDARDS
9. PROVIDE 4"X4" POST, EXTENDING 3' ABOVE GRADE TO MARK EACH TRACER WIRE STATION. PAINT COMMUNICATIONS POST ORANGE AND WATER POST BLUE.



PLEASANT STREET - STA 549+00 TO 560+47

SCALE:1" = 50'

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE
C	FINAL DB-RFP	06/09/2026
B	PRE-FINAL DB-RFP	02/27/2026
A	DRAFT DB-RFP	01/13/2026

DESIGNED BY: LDA
DRAWN BY: DSE
CHECKED BY: HLS
SUBMITTED BY: RJC
SIZE: ANSI D
ISSUE DATE: 06/09/2026
SOLICITATION NO.:
CONTRACT NO.:
DRAWING CODE:
SHEET 30 OF 66

U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
26 FEDERAL PLAZA
NEW YORK, NY 10278

CCE
472 York St
Portland, ME
04101
207.553.7753

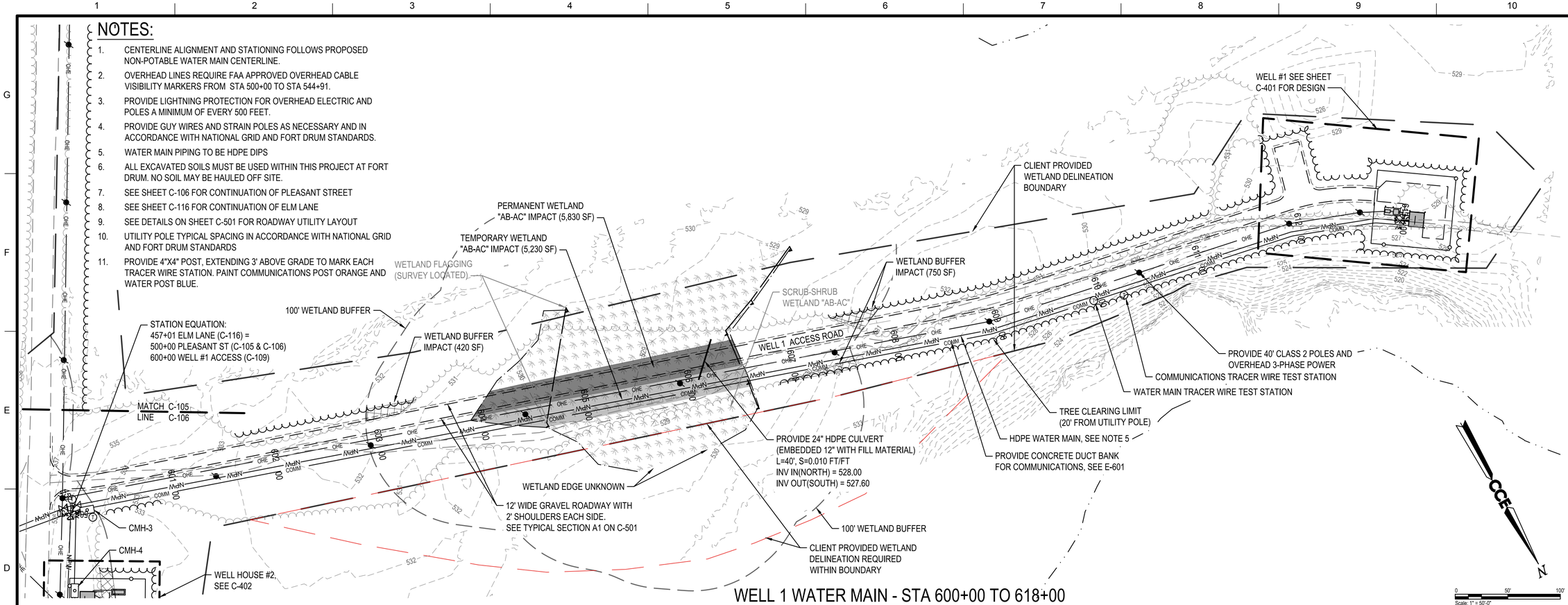
FORT DRUM - WELLS FIELD EXPANSION DB-RFP
FORT DRUM, NEW YORK

PLAN / PROFILE
PLEASANT STREET - STA 549+00 TO 560+47

SHEET ID
C-108

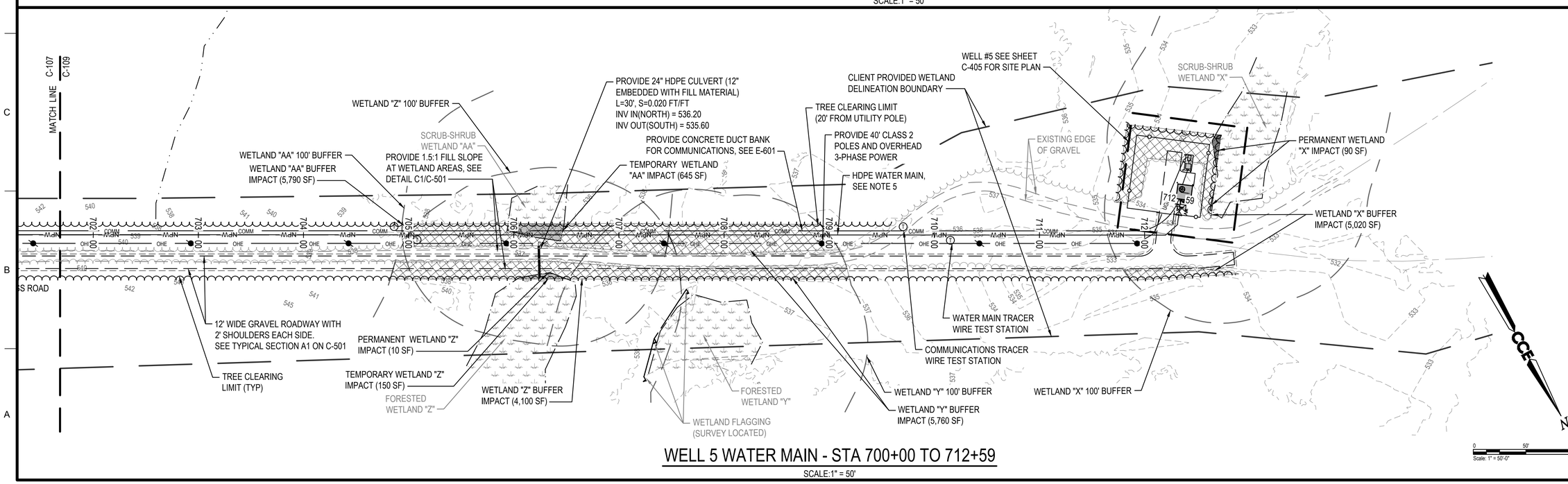
NOTES:

1. CENTERLINE ALIGNMENT AND STATIONING FOLLOWS PROPOSED NON-POTABLE WATER MAIN CENTERLINE.
2. OVERHEAD LINES REQUIRE FAA APPROVED OVERHEAD CABLE VISIBILITY MARKERS FROM STA 500+00 TO STA 544+91.
3. PROVIDE LIGHTNING PROTECTION FOR OVERHEAD ELECTRIC AND POLES A MINIMUM OF EVERY 500 FEET.
4. PROVIDE GUY WIRES AND STRAIN POLES AS NECESSARY AND IN ACCORDANCE WITH NATIONAL GRID AND FORT DRUM STANDARDS.
5. WATER MAIN PIPING TO BE HDPE DIPS
6. ALL EXCAVATED SOILS MUST BE USED WITHIN THIS PROJECT AT FORT DRUM. NO SOIL MAY BE HAULED OFF SITE.
7. SEE SHEET C-106 FOR CONTINUATION OF PLEASANT STREET
8. SEE SHEET C-116 FOR CONTINUATION OF ELM LANE
9. SEE DETAILS ON SHEET C-501 FOR ROADWAY UTILITY LAYOUT
10. UTILITY POLE TYPICAL SPACING IN ACCORDANCE WITH NATIONAL GRID AND FORT DRUM STANDARDS
11. PROVIDE 4"X4" POST, EXTENDING 3' ABOVE GRADE TO MARK EACH TRACER WIRE STATION. PAINT COMMUNICATIONS POST ORANGE AND WATER POST BLUE.



WELL 1 WATER MAIN - STA 600+00 TO 618+00

SCALE:1" = 50'



WELL 5 WATER MAIN - STA 700+00 TO 712+59

SCALE:1" = 50'

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE
C	FINAL DB-RFP	06/09/2026
B	PRE-FINAL DB-RFP	02/27/2026
A	DRAFT DB-RFP	01/13/2026

ISSUE DATE: 06/09/2026
SOLICITATION NO.:
CONTRACT NO.:
DRAWING CODE:
SUBMITTED BY:
SIZE: ANSI D
SCALE: AS SHOWN
SHEET 31 OF 66

DESIGNED BY: LDA
DRAWN BY: DSE
CHECKED BY: HLS

U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
26 FEDERAL PLAZA
NEW YORK, NY 10278

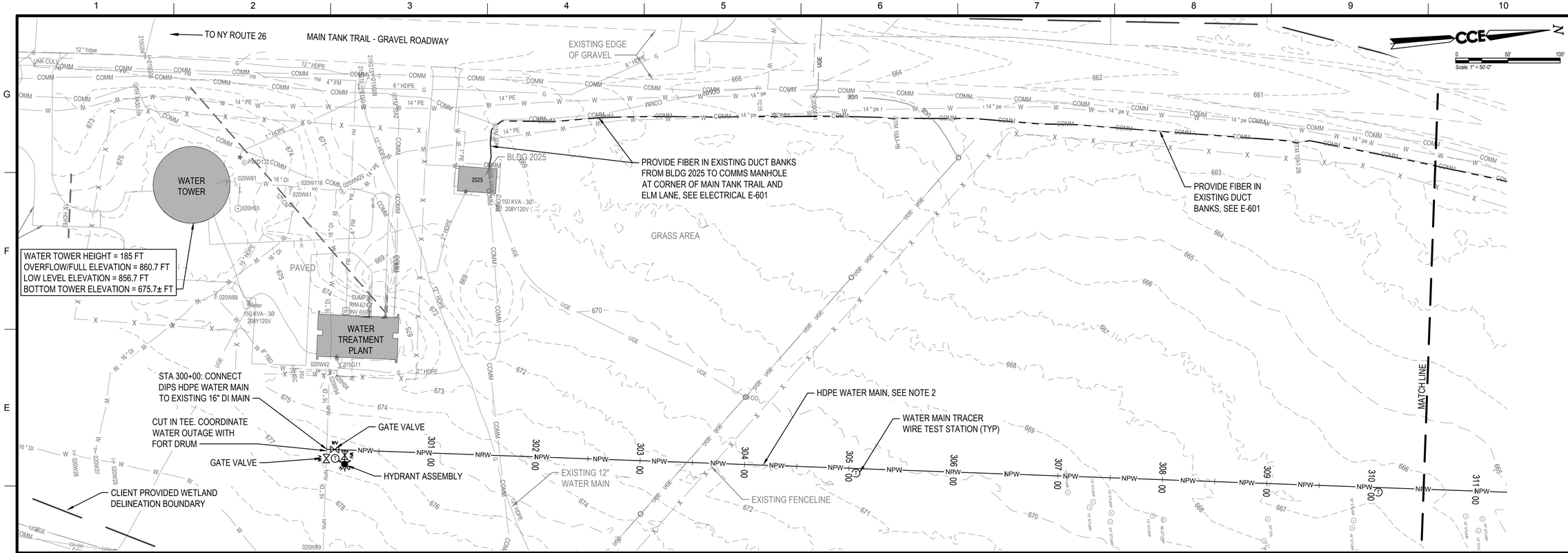
CORPS OF ENGINEERS CCE

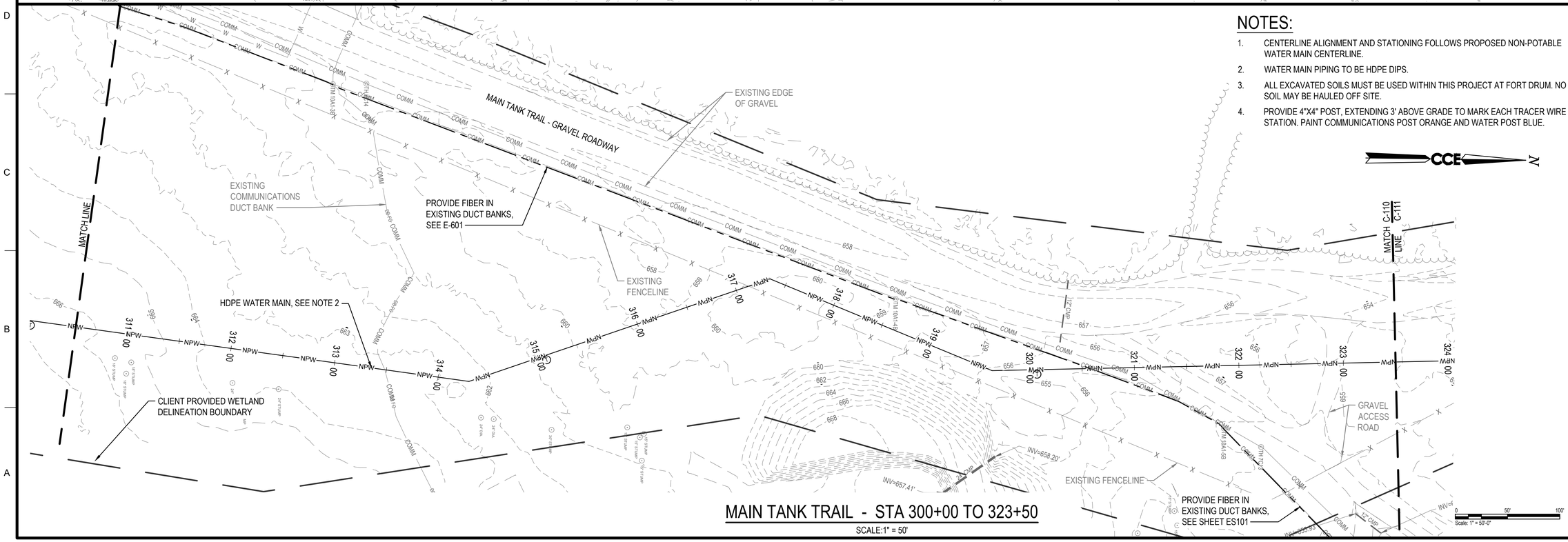
47A York St
Portland, ME
04101
207.553.7753

FORT DRUM - WELLS FIELD EXPANSION DB-RFP
FORT DRUM, NEW YORK

WELL 1 AND 5 - WATER MAIN

SHEET ID
C-109





NOTES:

1. CENTERLINE ALIGNMENT AND STATIONING FOLLOWS PROPOSED NON-POTABLE WATER MAIN CENTERLINE.
2. WATER MAIN PIPING TO BE HDPE DIPS.
3. ALL EXCAVATED SOILS MUST BE USED WITHIN THIS PROJECT AT FORT DRUM. NO SOIL MAY BE HAULED OFF SITE.
4. PROVIDE 4"X4" POST, EXTENDING 3' ABOVE GRADE TO MARK EACH TRACER WIRE STATION. PAINT COMMUNICATIONS POST ORANGE AND WATER POST BLUE.

MAIN TANK TRAIL - STA 300+00 TO 323+50

SCALE:1" = 50'

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE
C	FINAL DB-RFP	06/09/2026
B	PRE-FINAL DB-RFP	02/27/2026
A	DRAFT DB-RFP	01/13/2026

DESIGNED BY: LDA
DRAWN BY: DSE
CHECKED BY: HLS
SUBMITTED BY: RBZ
SIZE: ANSI D
SCALE: AS SHOWN
ISSUE DATE: 06/09/2026
SOLICITATION NO.:
CONTRACT NO.:
DRAWING CODE:
SHEET 32 OF 66

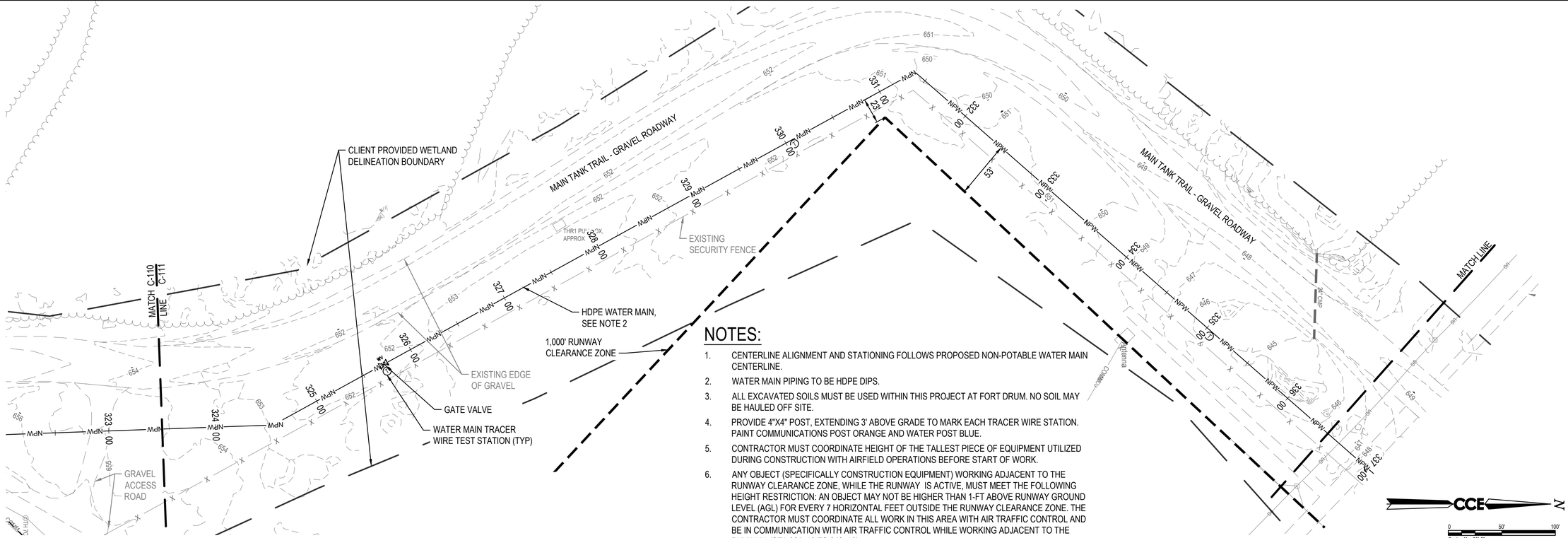
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
26 FEDERAL PLAZA
NEW YORK, NY 10278

47A York St.
Portland, ME
04101
207.553.7753

FORT DRUM - WELLS FIELD EXPANSION DB-RFP
FORT DRUM, NEW YORK

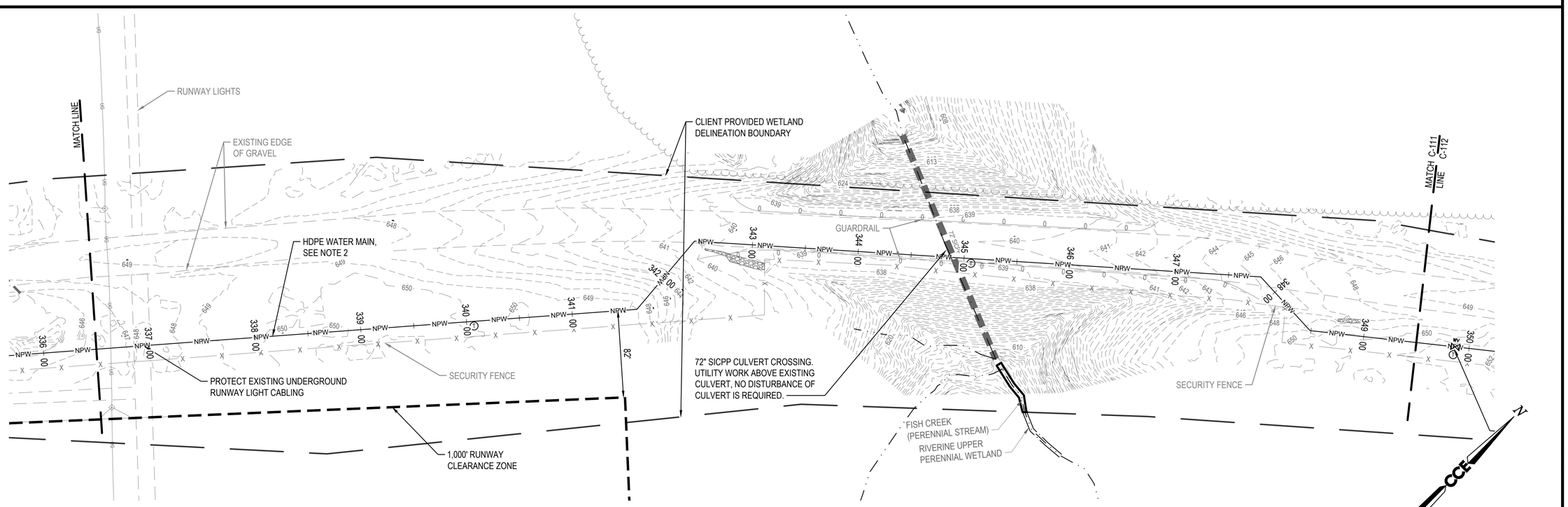
PLAN / PROFILE
MAIN TANK TRAIL - STA 300+00 TO 323+50

SHEET ID
C-110



NOTES:

1. CENTERLINE ALIGNMENT AND STATIONING FOLLOWS PROPOSED NON-POTABLE WATER MAIN CENTERLINE.
2. WATER MAIN PIPING TO BE HDPE DIPS.
3. ALL EXCAVATED SOILS MUST BE USED WITHIN THIS PROJECT AT FORT DRUM. NO SOIL MAY BE HAULED OFF SITE.
4. PROVIDE 4"X4" POST, EXTENDING 3' ABOVE GRADE TO MARK EACH TRACER WIRE STATION. PAINT COMMUNICATIONS POST ORANGE AND WATER POST BLUE.
5. CONTRACTOR MUST COORDINATE HEIGHT OF THE TALLEST PIECE OF EQUIPMENT UTILIZED DURING CONSTRUCTION WITH AIRFIELD OPERATIONS BEFORE START OF WORK.
6. ANY OBJECT (SPECIFICALLY CONSTRUCTION EQUIPMENT) WORKING ADJACENT TO THE RUNWAY CLEARANCE ZONE, WHILE THE RUNWAY IS ACTIVE, MUST MEET THE FOLLOWING HEIGHT RESTRICTION: AN OBJECT MAY NOT BE HIGHER THAN 1-FT ABOVE RUNWAY GROUND LEVEL (AGL) FOR EVERY 7 HORIZONTAL FEET OUTSIDE THE RUNWAY CLEARANCE ZONE. THE CONTRACTOR MUST COORDINATE ALL WORK IN THIS AREA WITH AIR TRAFFIC CONTROL AND BE IN COMMUNICATION WITH AIR TRAFFIC CONTROL WHILE WORKING ADJACENT TO THE RUNWAY. (STA 324+50 TO 342+50)



MAIN TANK TRAIL - STA 323+50 TO 349+50

SCALE:1" = 50'

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE
C	FINAL DB-RFP	06/09/2026
B	PRE-FINAL DB-RFP	02/27/2026
A	DRAFT DB-RFP	01/13/2026

ISSUE DATE: 06/09/2026
DESIGNED BY: LDA
DRAWN BY: DSE
CHECKED BY: HLS
SUBMITTED BY: RDC
SIZE: ANSI D
SCALE: AS SHOWN
SOLICITATION NO.:
CONTRACT NO.:
DRAWING CODE:
SHEET 33 OF 66

U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
26 FEDERAL PLAZA
NEW YORK, NY 10278

CCE
47A York St
Portland, ME 04101
207.553.7753

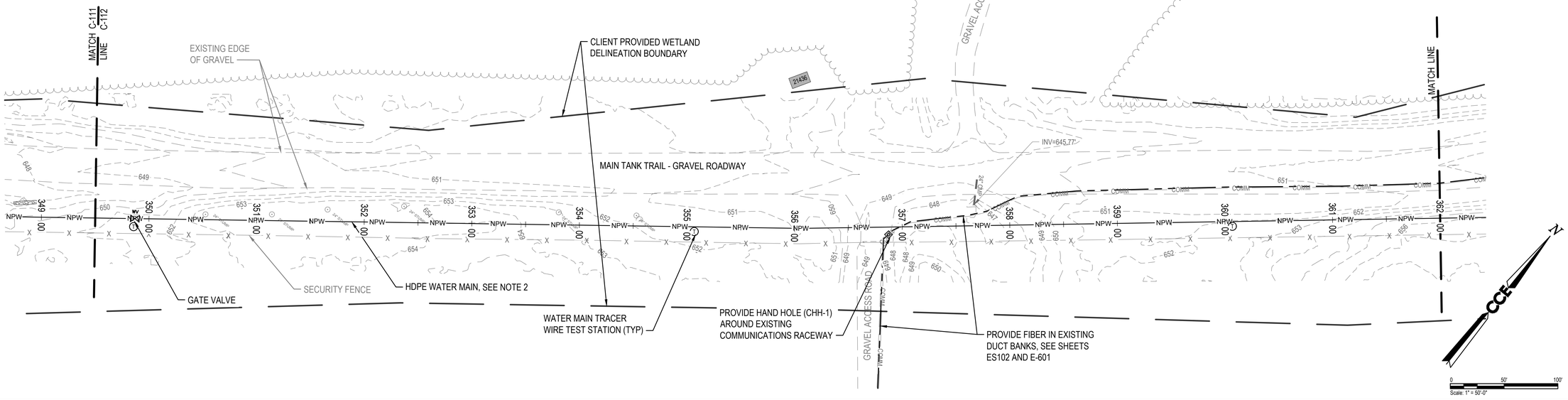
FORT DRUM - WELLS FIELD EXPANSION DB-RFP
FORT DRUM, NEW YORK

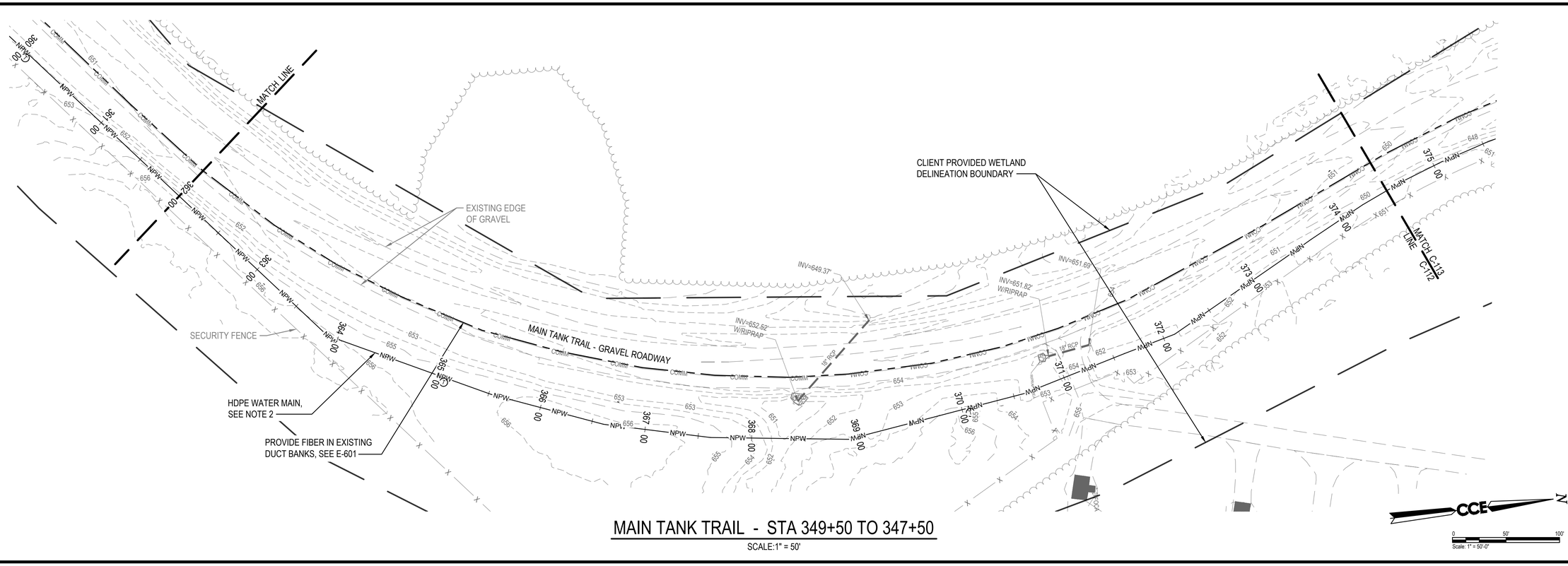
PLAN / PROFILE
MAIN TANK TRAIL - STA 323+50 TO 349+50

SHEET ID
C-111

NOTES:

1. CENTERLINE ALIGNMENT AND STATIONING FOLLOWS PROPOSED NON-POTABLE WATER MAIN CENTERLINE.
2. WATER MAIN PIPING TO BE HDPE DIPS.
3. ALL EXCAVATED SOILS MUST BE USED WITHIN THIS PROJECT AT FORT DRUM. NO SOIL MAY BE HAULED OFF SITE.
4. PROVIDE 4"X4" POST, EXTENDING 3' ABOVE GRADE TO MARK EACH TRACER WIRE STATION. PAINT COMMUNICATIONS POST ORANGE AND WATER POST BLUE.
5. SEE DETAILS ON SHEET C-501 FOR ROADWAY UTILITY LAYOUT





MAIN TANK TRAIL - STA 349+50 TO 347+50

SCALE:1" = 50'

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE
C	FINAL DB-RFP	06/09/2026
B	PRE-FINAL DB-RFP	02/27/2026
A	DRAFT DB-RFP	01/13/2026

ISSUE DATE: 06/09/2026
SOLICITATION NO.:
CONTRACT NO.:
DRAWING CODE:
SHEET 34 OF 66

DESIGNED BY: LDA
DRAWN BY: DSE
CHECKED BY: HLS
SUBMITTED BY: RJD
SIZE: ANSI D
SCALE: AS SHOWN

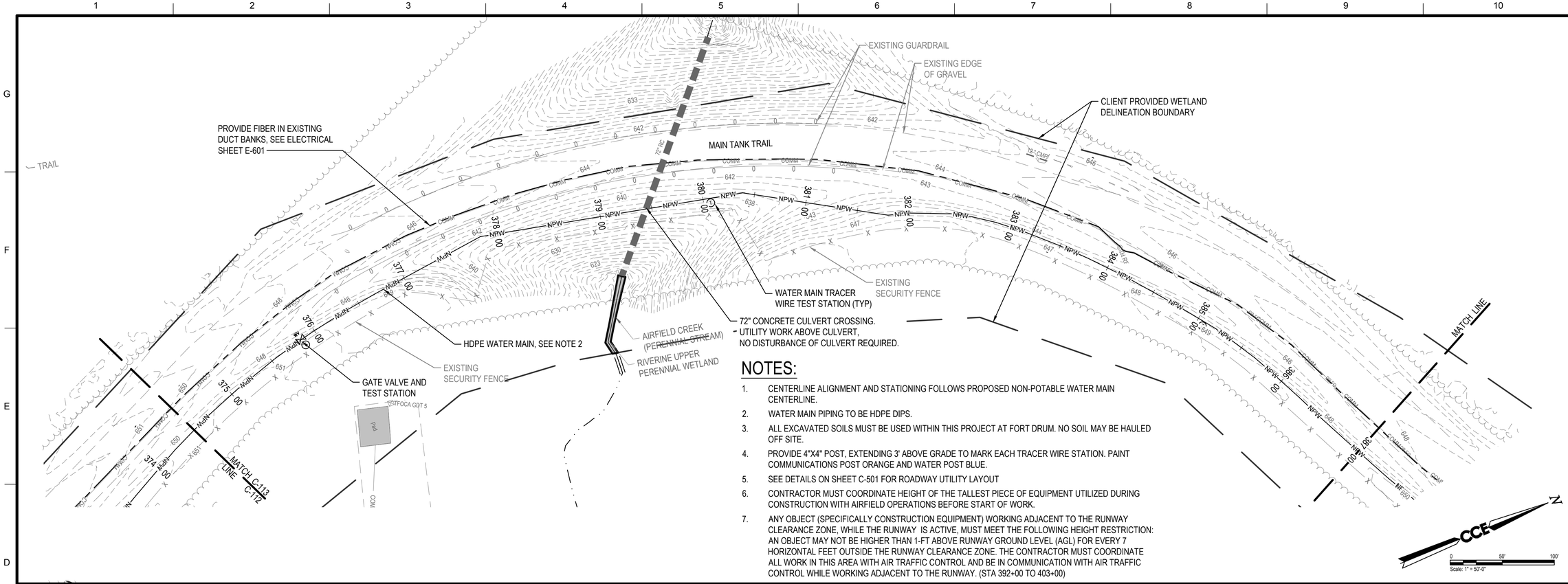
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
26 FEDERAL PLAZA
NEW YORK, NY 10278

CCE
474 York St
Portland, ME
04101
207.553.7753

FORT DRUM - WELLS FIELD EXPANSION DB-RFP
FORT DRUM, NEW YORK

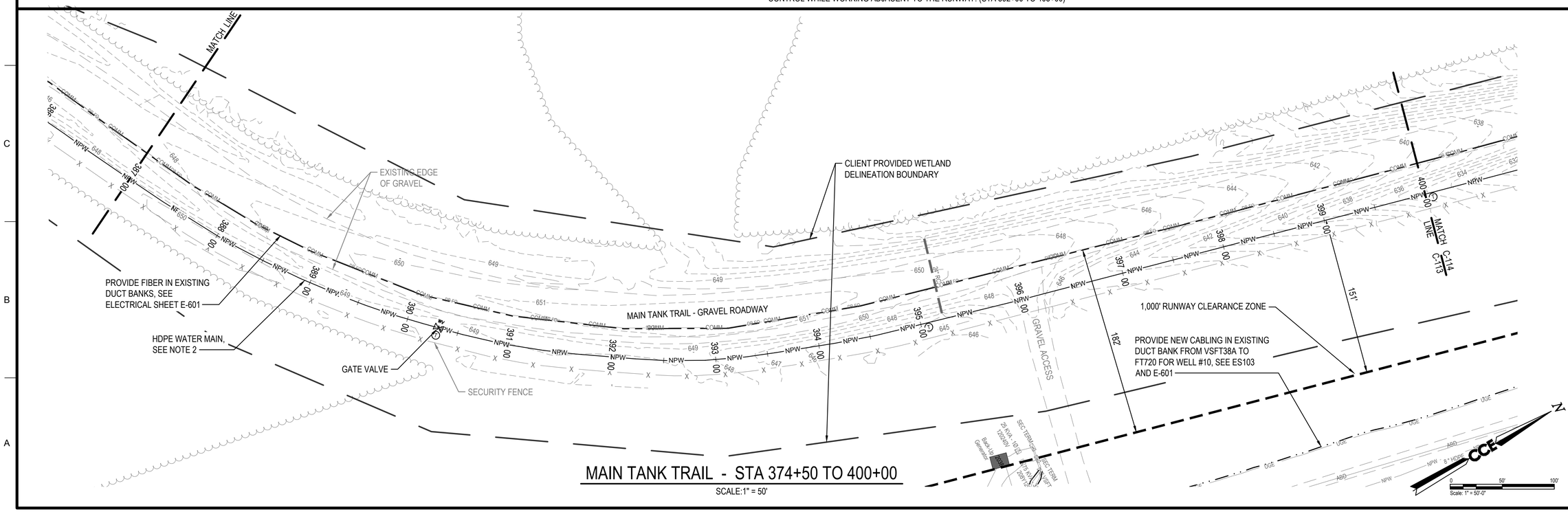
PLAN / PROFILE
MAIN TANK TRAIL - STA 349+50 TO 347+50

SHEET ID
C-112



NOTES:

1. CENTERLINE ALIGNMENT AND STATIONING FOLLOWS PROPOSED NON-POTABLE WATER MAIN CENTERLINE.
2. WATER MAIN PIPING TO BE HDPE DIPS.
3. ALL EXCAVATED SOILS MUST BE USED WITHIN THIS PROJECT AT FORT DRUM. NO SOIL MAY BE HAULED OFF SITE.
4. PROVIDE 4"X4" POST, EXTENDING 3' ABOVE GRADE TO MARK EACH TRACER WIRE STATION. PAINT COMMUNICATIONS POST ORANGE AND WATER POST BLUE.
5. SEE DETAILS ON SHEET C-501 FOR ROADWAY UTILITY LAYOUT
6. CONTRACTOR MUST COORDINATE HEIGHT OF THE TALLEST PIECE OF EQUIPMENT UTILIZED DURING CONSTRUCTION WITH AIRFIELD OPERATIONS BEFORE START OF WORK.
7. ANY OBJECT (SPECIFICALLY CONSTRUCTION EQUIPMENT) WORKING ADJACENT TO THE RUNWAY CLEARANCE ZONE, WHILE THE RUNWAY IS ACTIVE, MUST MEET THE FOLLOWING HEIGHT RESTRICTION: AN OBJECT MAY NOT BE HIGHER THAN 1-FT ABOVE RUNWAY GROUND LEVEL (AGL) FOR EVERY 7 HORIZONTAL FEET OUTSIDE THE RUNWAY CLEARANCE ZONE. THE CONTRACTOR MUST COORDINATE ALL WORK IN THIS AREA WITH AIR TRAFFIC CONTROL AND BE IN COMMUNICATION WITH AIR TRAFFIC CONTROL WHILE WORKING ADJACENT TO THE RUNWAY. (STA 392+00 TO 403+00)



MAIN TANK TRAIL - STA 374+50 TO 400+00

SCALE:1" = 50'

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE
C	FINAL DB-RFP	06/09/2026
B	PRE-FINAL DB-RFP	02/27/2026
A	DRAFT DB-RFP	01/13/2026

ISSUE DATE: 06/09/2026
SOLICITATION NO.:
CONTRACT NO.:
DRAWING CODE:
SHEET 35 OF 66

DESIGNED BY: LDA
DRAWN BY: DSE
CHECKED BY: HLS
SUBMITTED BY:
SIZE: ANSI D
SCALE: AS SHOWN

U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
26 FEDERAL PLAZA
NEW YORK, NY 10278

47A York St
Portland, ME 04101
207.553.7753

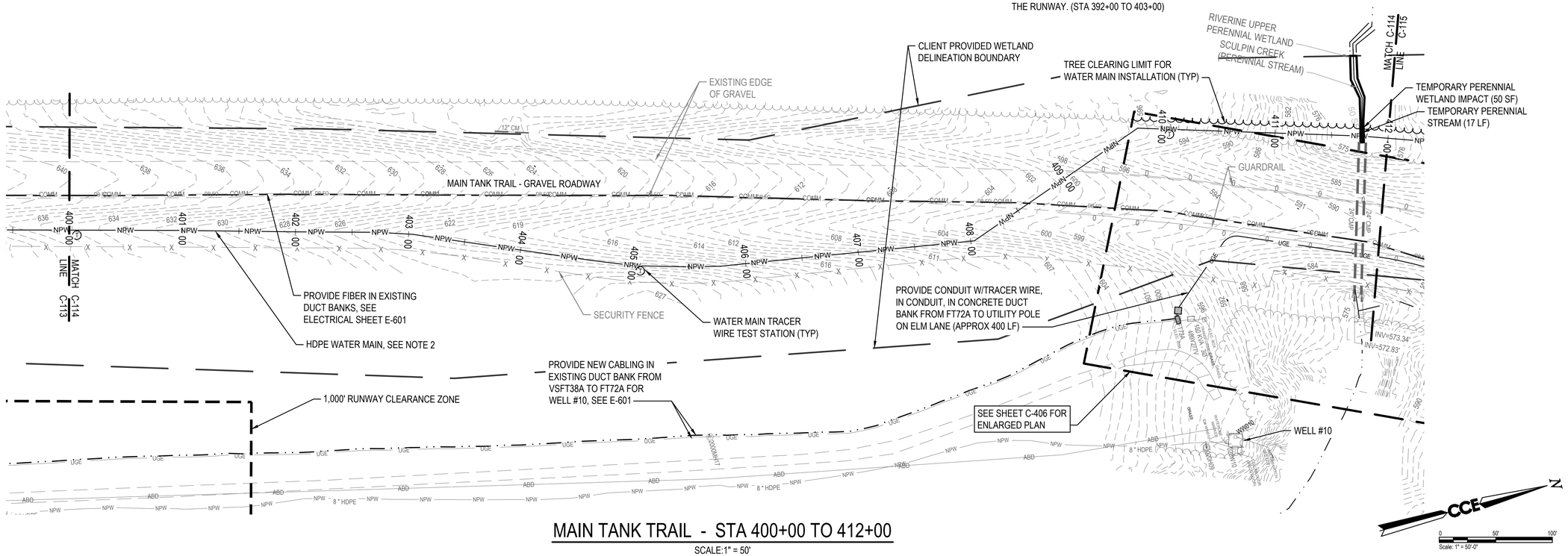
FORT DRUM - WELLS FIELD EXPANSION DB-RFP
FORT DRUM, NEW YORK

PLAN / PROFILE
MAIN TANK TRAIL - STA 374+50 TO 400+00

SHEET ID
C-113

NOTES:

1. CENTERLINE ALIGNMENT AND STATIONING FOLLOWS PROPOSED NON-POTABLE WATER MAIN CENTERLINE.
2. WATER MAIN PIPING TO BE HDPE DIPS.
3. ALL EXCAVATED SOILS MUST BE USED WITHIN THIS PROJECT AT FORT DRUM. NO SOIL MAY BE HAULED OFF SITE.
4. PROVIDE 4"X4" POST, EXTENDING 3' ABOVE GRADE TO MARK EACH TRACER WIRE STATION. PAINT COMMUNICATIONS POST ORANGE AND WATER POST BLUE.
5. SEE DETAILS ON SHEET C-501 FOR ROADWAY UTILITY LAYOUT
6. CONTRACTOR MUST COORDINATE HEIGHT OF THE TALLEST PIECE OF EQUIPMENT UTILIZED DURING CONSTRUCTION WITH AIRFIELD OPERATIONS BEFORE START OF WORK.
7. ANY OBJECT (SPECIFICALLY CONSTRUCTION EQUIPMENT) WORKING ADJACENT TO THE RUNWAY CLEARANCE ZONE, WHILE THE RUNWAY IS ACTIVE, MUST MEET THE FOLLOWING HEIGHT RESTRICTION: AN OBJECT MAY NOT BE HIGHER THAN 1-FT ABOVE RUNWAY GROUND LEVEL (AGL) FOR EVERY 7 HORIZONTAL FEET OUTSIDE THE RUNWAY CLEARANCE ZONE. THE CONTRACTOR MUST COORDINATE ALL WORK IN THIS AREA WITH AIR TRAFFIC CONTROL AND BE IN COMMUNICATION WITH AIR TRAFFIC CONTROL WHILE WORKING ADJACENT TO THE RUNWAY. (STA 392+00 TO 403+00)



MAIN TANK TRAIL - STA 400+00 TO 412+00

SCALE:1" = 50'

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE
C	FINAL DB-RFP	06/09/2026
B	PRE-FINAL DB-RFP	02/27/2026
A	DRAFT DB-RFP	01/13/2026

DESIGNED BY: LDA
DRAWN BY: DSE
CHECKED BY: HLS
SUBMITTED BY: RTC
SIZE: ANSI D
ISSUE DATE: 06/09/2026
SOLICITATION NO.:
CONTRACT NO.:
DRAWING CODE:
SHEET 36 OF 66
SCALE: AS SHOWN

U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
26 FEDERAL PLAZA
NEW YORK, NY 10278

47A York St
Portland, ME
04101
207.553.7753

FORT DRUM - WELLS FIELD EXPANSION DB-RFP
FORT DRUM, NEW YORK

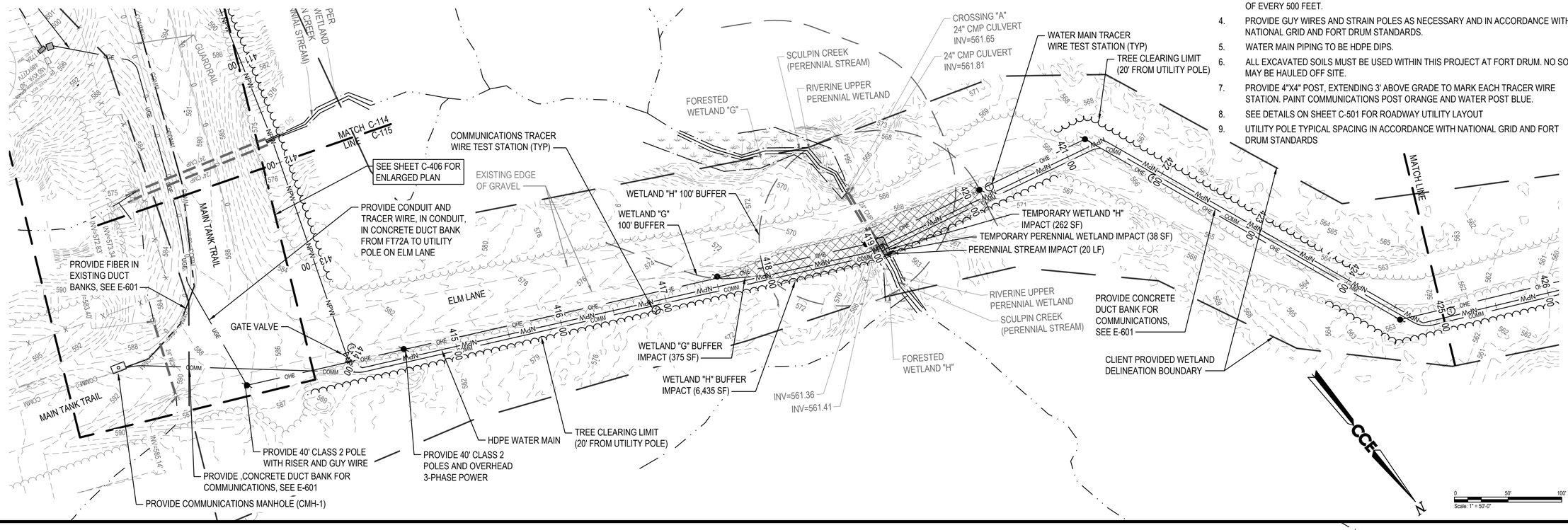
PLAN / PROFILE
MAIN TANK TRAIL - STA 400+00 TO 412+00

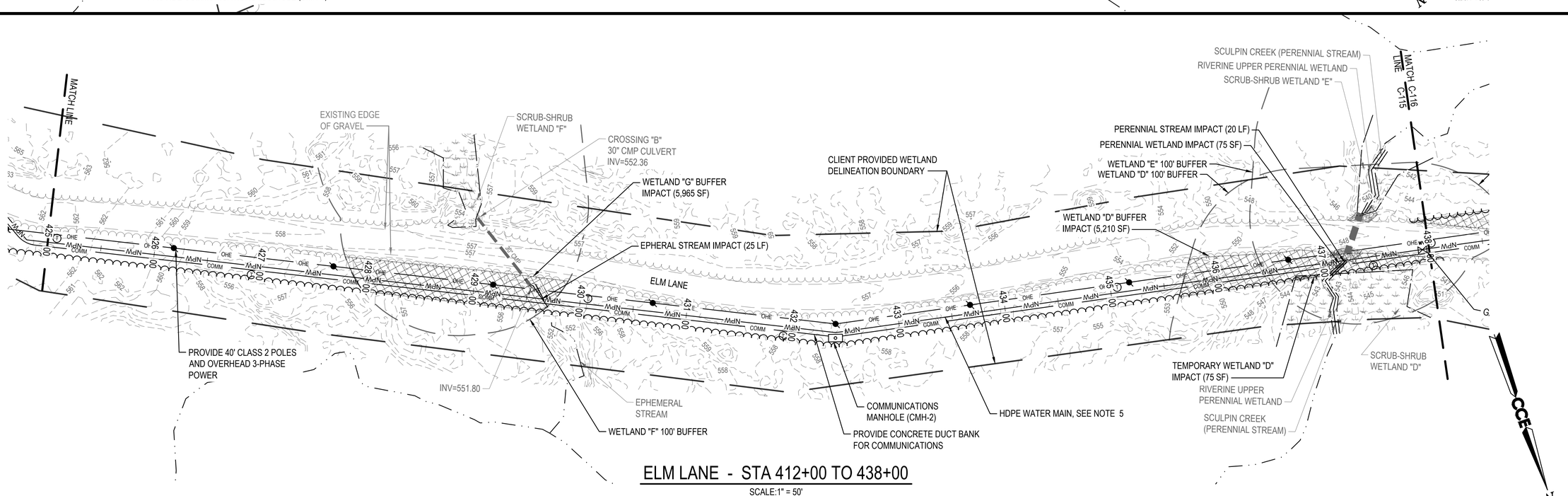
SHEET ID

C-114

NOTES:

1. CENTERLINE ALIGNMENT AND STATIONING FOLLOWS PROPOSED NON-POTABLE WATER MAIN CENTERLINE.
2. OVERHEAD LINES REQUIRE FAA APPROVED OVERHEAD CABLE VISIBILITY MARKERS FROM STA 412+00 TO STA 457+01.
3. PROVIDE LIGHTNING PROTECTION FOR OVERHEAD ELECTRIC AND POLES A MINIMUM OF EVERY 500 FEET.
4. PROVIDE GUY WIRES AND STRAIN POLES AS NECESSARY AND IN ACCORDANCE WITH NATIONAL GRID AND FORT DRUM STANDARDS.
5. WATER MAIN PIPING TO BE HDPE DIPS.
6. ALL EXCAVATED SOILS MUST BE USED WITHIN THIS PROJECT AT FORT DRUM. NO SOIL MAY BE HAULED OFF SITE.
7. PROVIDE 4"X4" POST, EXTENDING 3' ABOVE GRADE TO MARK EACH TRACER WIRE STATION. PAINT COMMUNICATIONS POST ORANGE AND WATER POST BLUE.
8. SEE DETAILS ON SHEET C-501 FOR ROADWAY UTILITY LAYOUT
9. UTILITY POLE TYPICAL SPACING IN ACCORDANCE WITH NATIONAL GRID AND FORT DRUM STANDARDS





ELM LANE - STA 412+00 TO 438+00

SCALE:1" = 50'

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE
C	FINAL DB-RFP	06/09/2026
B	PRE-FINAL DB-RFP	02/27/2026
A	DRAFT DB-RFP	01/13/2026

DESIGNED BY: LDA
DRAWN BY: DSE
CHECKED BY: HLS
SUBMITTED BY: SCALE: ANSI D
ISSUE DATE: 06/09/2026
SOLICITATION NO.:
CONTRACT NO.:
DRAWING CODE:
SHEET 37 OF 66
SCALE: AS SHOWN

U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
26 FEDERAL PLAZA
NEW YORK, NY 10278

424 York St
Portland, ME
04101
207.553.7753

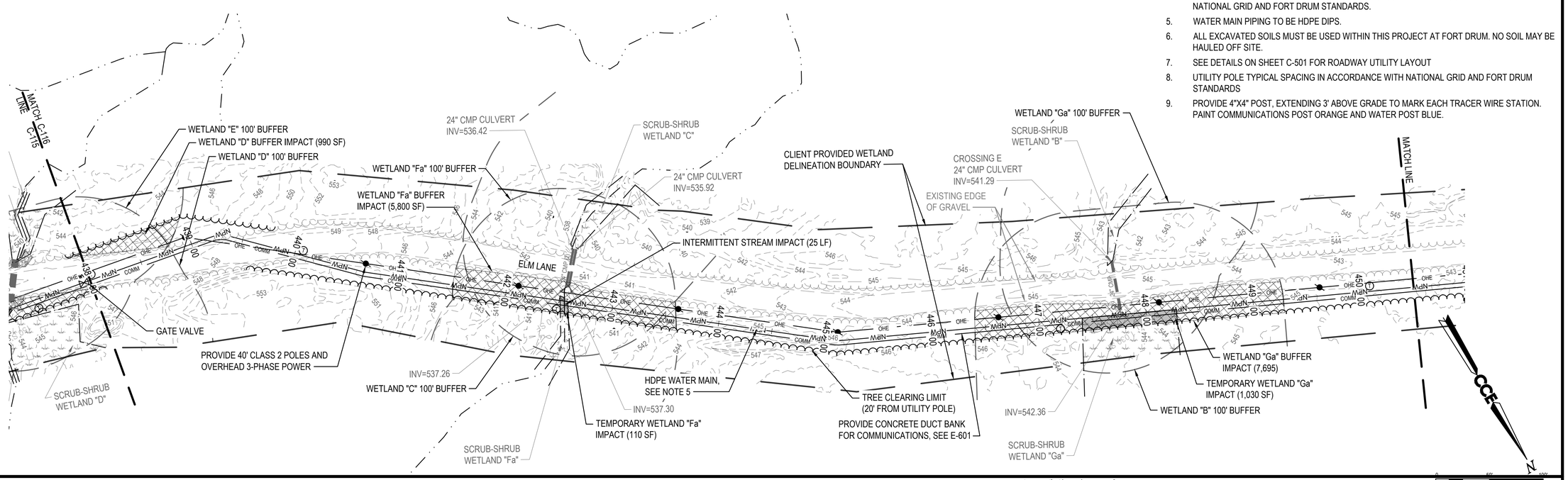
FORT DRUM - WELLS FIELD EXPANSION DB-RFP
FORT DRUM, NEW YORK

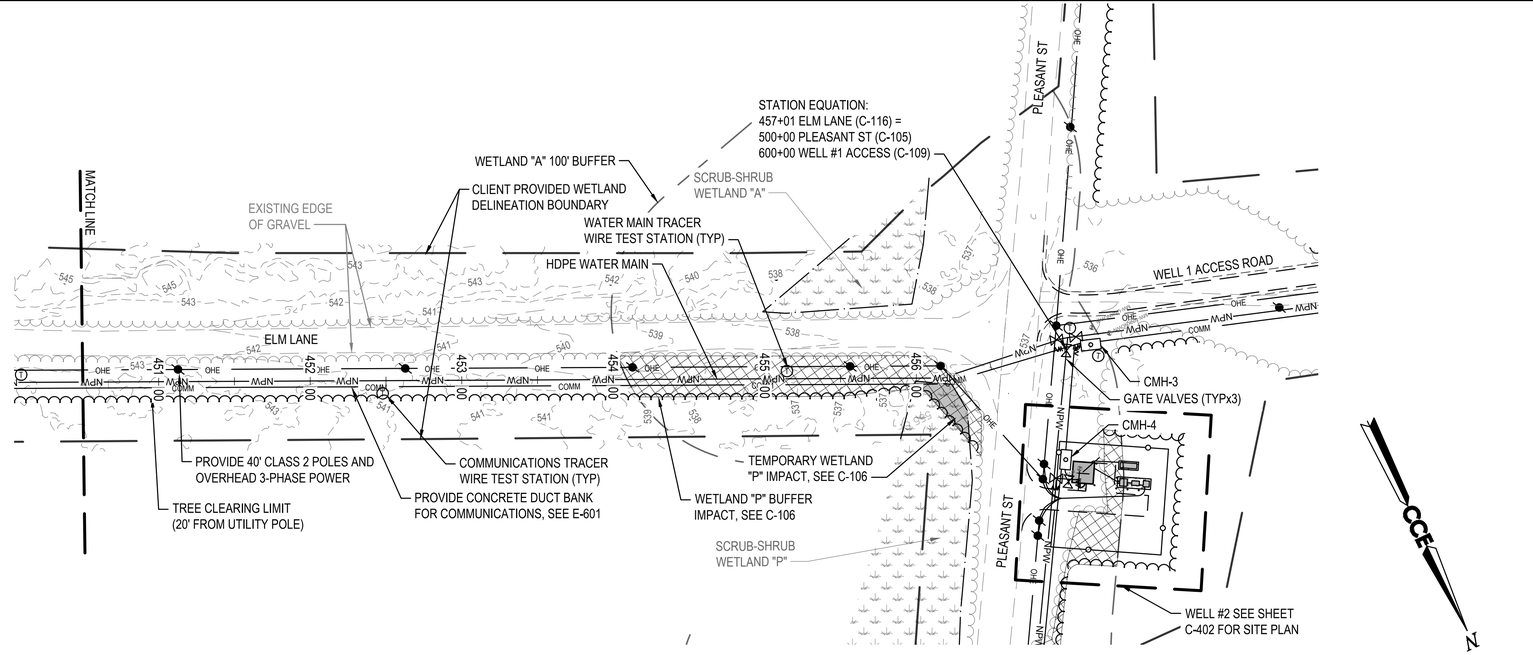
PLAN / PROFILE
ELM LANE - STA 412+00 TO 438+00

SHEET ID
C-115

NOTES:

1. CENTERLINE ALIGNMENT AND STATIONING FOLLOWS PROPOSED NON-POTABLE WATER MAIN CENTERLINE.
2. OVERHEAD LINES REQUIRE FAA APPROVED OVERHEAD CABLE VISIBILITY MARKERS FROM STA 412+00 TO STA 457+01.
3. PROVIDE LIGHTNING PROTECTION FOR OVERHEAD ELECTRIC AND POLES A MINIMUM OF EVERY 500 FEET.
4. PROVIDE GUY WIRES AND STRAIN POLES AS NECESSARY AND IN ACCORDANCE WITH NATIONAL GRID AND FORT DRUM STANDARDS.
5. WATER MAIN PIPING TO BE HDPE DIPS.
6. ALL EXCAVATED SOILS MUST BE USED WITHIN THIS PROJECT AT FORT DRUM. NO SOIL MAY BE HAULED OFF SITE.
7. SEE DETAILS ON SHEET C-501 FOR ROADWAY UTILITY LAYOUT
8. UTILITY POLE TYPICAL SPACING IN ACCORDANCE WITH NATIONAL GRID AND FORT DRUM STANDARDS
9. PROVIDE 4"X4" POST, EXTENDING 3' ABOVE GRADE TO MARK EACH TRACER WIRE STATION. PAINT COMMUNICATIONS POST ORANGE AND WATER POST BLUE.





ELM LANE - STA 438+00 TO 457+01

SCALE:1" = 50'

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE
C	FINAL DB-RFP	06/09/2026
B	PRE-FINAL DB-RFP	02/27/2026
A	DRAFT DB-RFP	01/13/2026

ISSUE DATE: 06/09/2026
SOLICITATION NO.:
CONTRACT NO.:
DRAWING CODE:
SHEET 38 OF 66
SCALE: AS SHOWN
ANSI D

DESIGNED BY: LDA
DRAWN BY:
CHECKED BY: DSE
SUBMITTED BY: HLS
SIZE

U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
26 FEDERAL PLAZA
NEW YORK, NY 10278

47A York St
Portland, ME
04101
207.553.7753

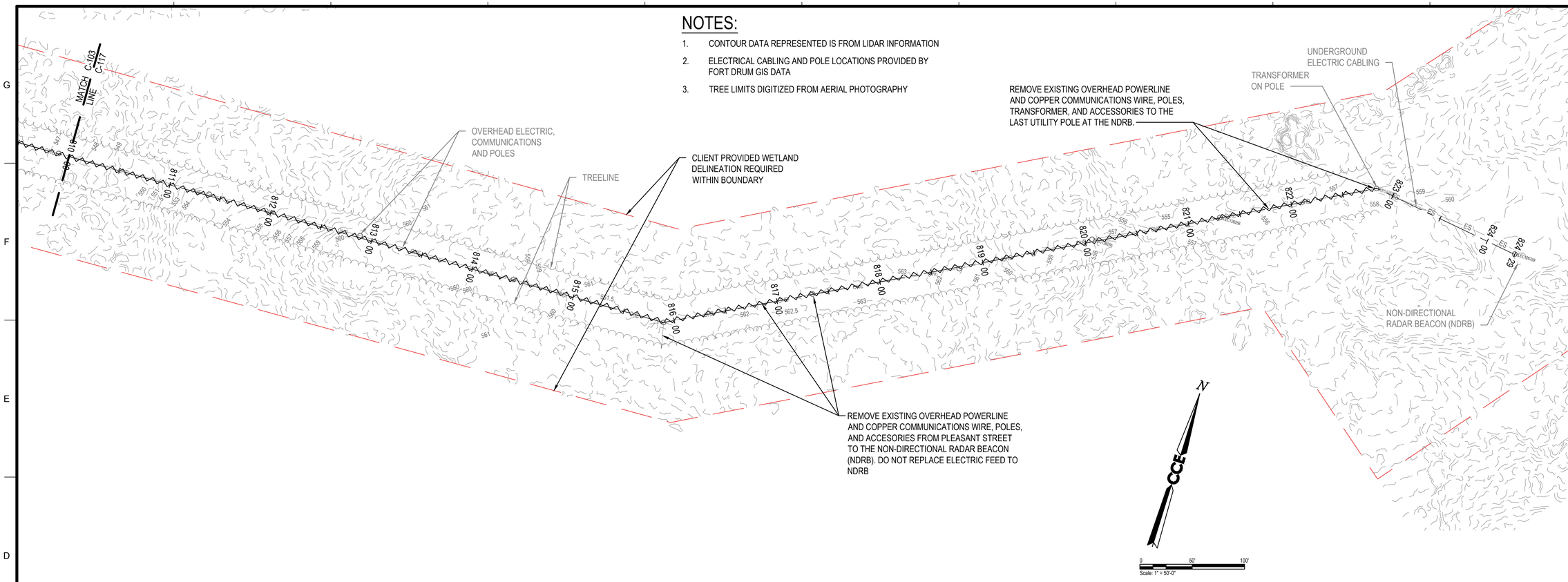
FORT DRUM - WELLS FIELD EXPANSION DB-RFP
FORT DRUM, NEW YORK

PLAN / PROFILE
ELM LANE - STA 438+00 TO 457+01

SHEET ID
C-116

NOTES:

1. CONTOUR DATA REPRESENTED IS FROM LIDAR INFORMATION
2. ELECTRICAL CABLING AND POLE LOCATIONS PROVIDED BY FORT DRUM GIS DATA
3. TREE LIMITS DIGITIZED FROM AERIAL PHOTOGRAPHY



NON-DIRECTIONAL RADAR BEACON UTILITY - STA 800+00 TO 824+29

SCALE:1" = 50'

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE
C	FINAL DB-RFP	06/09/2026
B	PRE-FINAL DB-RFP	02/27/2026
A	DRAFT DB-RFP	01/13/2026

DESIGNED BY: LDA
DRAWN BY: DSE
CHECKED BY: HLS
SUBMITTED BY: RJ
SIZE: ANSI D
ISSUE DATE: 06/09/2026
SOLICITATION NO.:
CONTRACT NO.:
DRAWING CODE:
SHEET 39 OF 66
SCALE: AS SHOWN

U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
26 FEDERAL PLAZA
NEW YORK, NY 10278

47A York St
Portland, ME
04101
207.553.7753

FORT DRUM - WELLS FIELD EXPANSION DB-RFP
FORT DRUM, NEW YORK

NON-DIRECTIONAL RADAR BEACON UTILITY - STA 800+00 TO 824+29

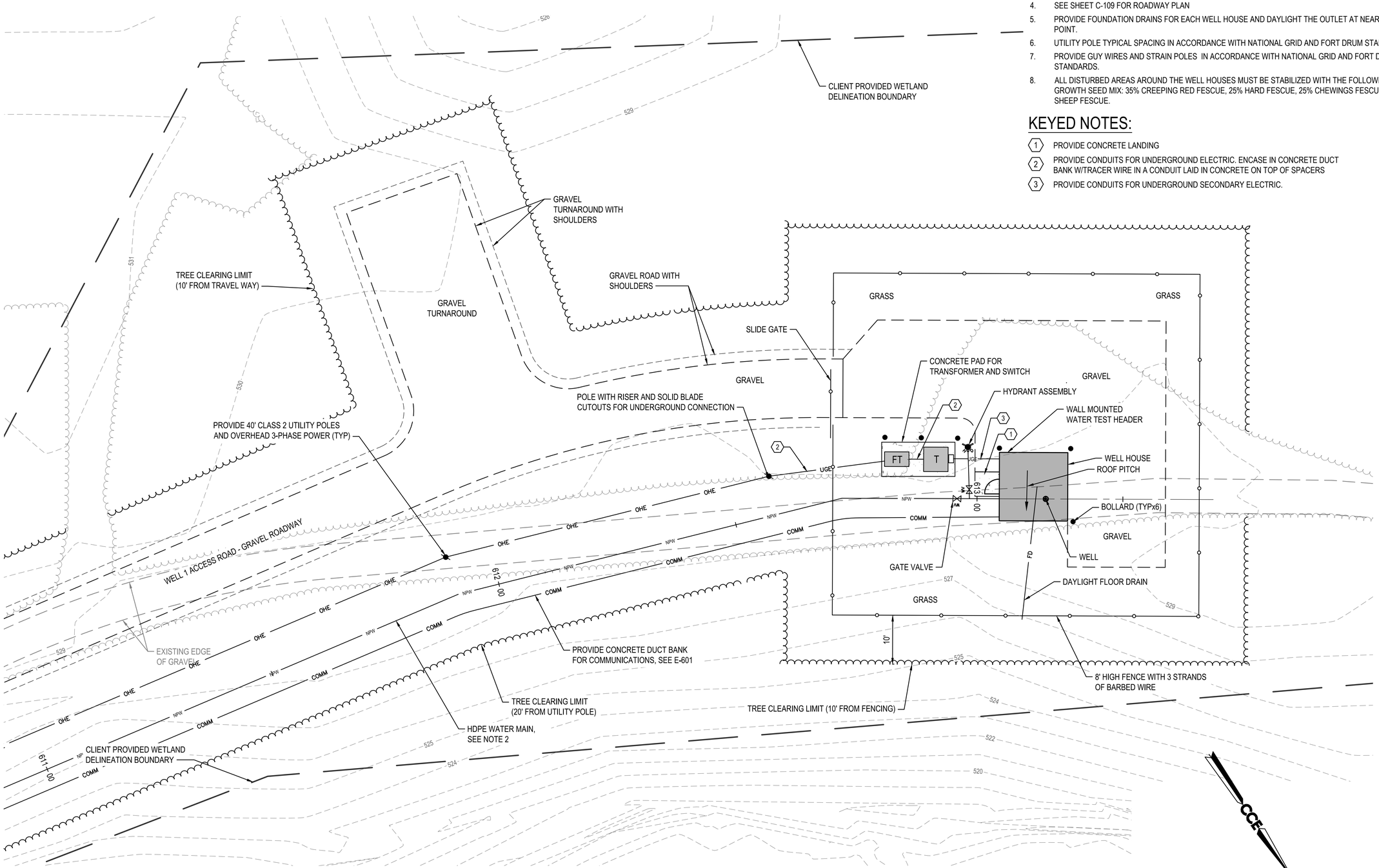
SHEET ID
C-117

NOTES:

1. OVERHEAD LINES REQUIRE FAA APPROVED OVERHEAD CABLE VISIBILITY MARKERS ON WELL 1 ACCESS ROAD FROM STA 600+00 TO 612+90
2. WATER MAIN PIPING TO BE HDPE DIPS
3. ALL EXCAVATED SOILS MUST BE USED WITHIN THIS PROJECT AT FORT DRUM. NO SOIL MAY BE HAULED OFF SITE.
4. SEE SHEET C-109 FOR ROADWAY PLAN
5. PROVIDE FOUNDATION DRAINS FOR EACH WELL HOUSE AND DAYLIGHT THE OUTLET AT NEAREST AVAILABLE POINT.
6. UTILITY POLE TYPICAL SPACING IN ACCORDANCE WITH NATIONAL GRID AND FORT DRUM STANDARDS
7. PROVIDE GUY WIRES AND STRAIN POLES IN ACCORDANCE WITH NATIONAL GRID AND FORT DRUM STANDARDS.
8. ALL DISTURBED AREAS AROUND THE WELL HOUSES MUST BE STABILIZED WITH THE FOLLOWING SLOW GROWTH SEED MIX: 35% CREEPING RED FESCUE, 25% HARD FESCUE, 25% CHEWINGS FESCUE, AND 15% SHEEP FESCUE.

KEYED NOTES:

1. PROVIDE CONCRETE LANDING
2. PROVIDE CONDUITS FOR UNDERGROUND ELECTRIC. ENCASE IN CONCRETE DUCT BANK W/TRACER WIRE IN A CONDUIT LAID IN CONCRETE ON TOP OF SPACERS
3. PROVIDE CONDUITS FOR UNDERGROUND SECONDARY ELECTRIC.



WELL #1 - BUILDING SITE

SCALE:1" = 10'

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE
C	FINAL DB-RFP	06/09/2026
B	PRE-FINAL DB-RFP	02/27/2026
A	DRAFT DB-RFP	01/13/2026

ISSUE DATE: 06/09/2026
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CONTRACT NO.:
DRAWING CODE:
SUBMITTED BY:
SCALE: AS SHOWN
SHEET 40 OF 66

DESIGNED BY: LDA
DRAWN BY: DSE
CHECKED BY: HLS
SIZE: ANSI D

U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
26 FEDERAL PLAZA
NEW YORK, NY 10278

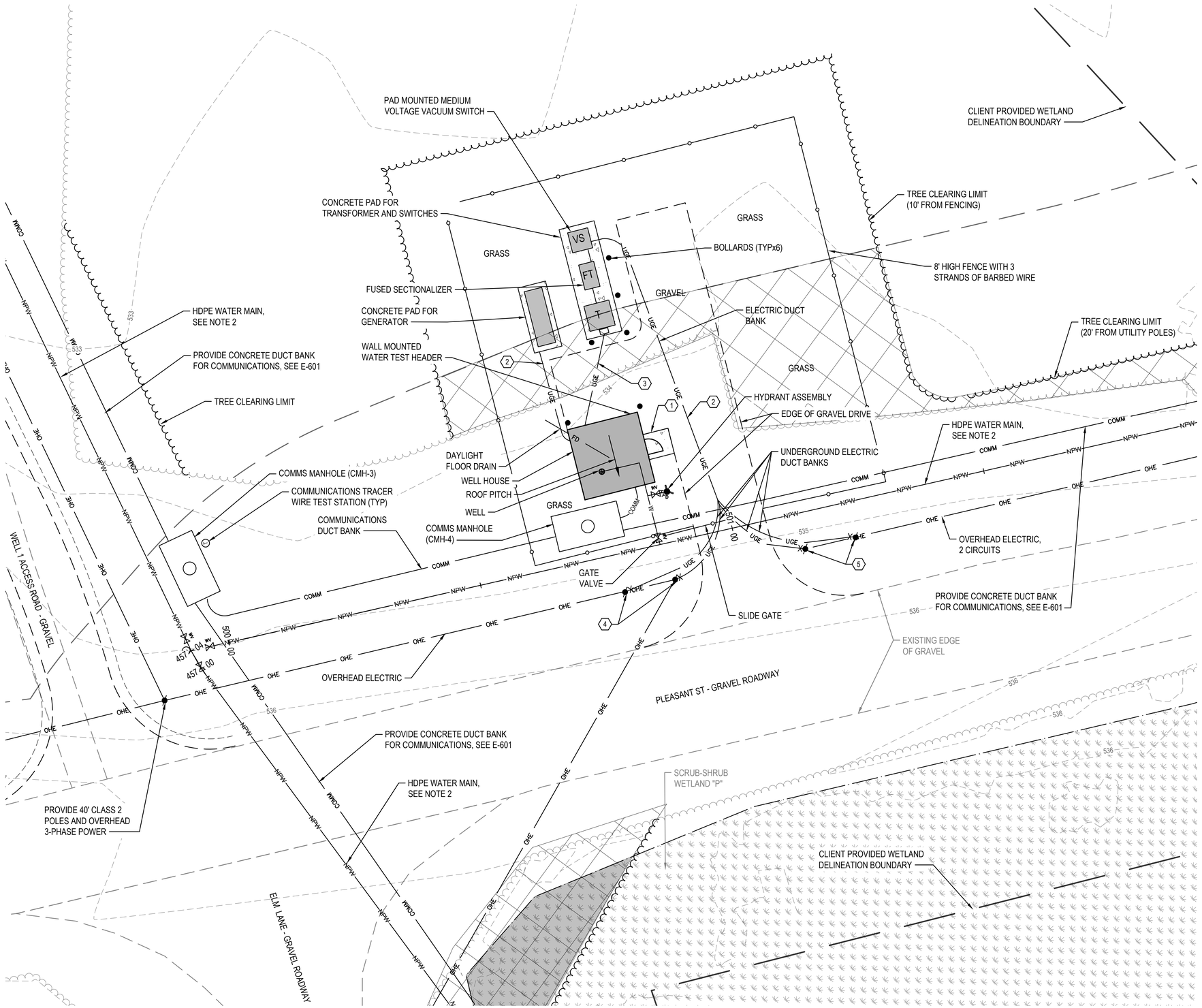
CCE
47A York St
Portland, ME
04101
207.553.7753

FORT DRUM - WELLS FIELD EXPANSION DB-RFP
FORT DRUM, NEW YORK

WELL #1 - BUILDING SITE

SHEET ID

C-401



NOTES:

1. OVERHEAD LINES REQUIRE FAA APPROVED OVERHEAD CABLE VISIBILITY MARKERS ON PLEASANT STREET FROM STA 500+00 TO 560+50.
2. WATER MAIN PIPING TO BE HDPE DIPS
3. ALL EXCAVATED SOILS MUST BE USED WITHIN THIS PROJECT AT FORT DRUM. NO SOIL MAY BE HAULED OFF SITE.
4. SEE SHEET C-106 FOR ROADWAY UTILITY PLAN.
5. PROVIDE FOUNDATION DRAINS FOR EACH WELL HOUSE AND DAYLIGHT THE OUTLET AT NEAREST AVAILABLE POINT.
6. UTILITY POLE TYPICAL SPACING IN ACCORDANCE WITH NATIONAL GRID AND FORT DRUM STANDARDS
7. PROVIDE GUY WIRES AND STRAIN POLES IN ACCORDANCE WITH NATIONAL GRID AND FORT DRUM STANDARDS.
8. ALL DISTURBED AREAS AROUND THE WELL HOUSES MUST BE STABILIZED WITH THE FOLLOWING SLOW GROWTH SEED MIX: 35% CREEPING RED FESCUE, 25% HARD FESCUE, 25% CHEWINGS FESCUE, AND 15% SHEEP FESCUE.

KEYED NOTES:

1. PROVIDE CONCRETE LANDING
2. PROVIDE CONDUITS FOR UNDERGROUND ELECTRIC. ENCASE IN CONCRETE DUCT BANK W/TRACER WIRE IN A CONDUIT LAID IN CONCRETE ON TOP OF SPACERS
3. PROVIDE CONDUITS FOR UNDERGROUND SECONDARY ELECTRIC.
4. POLE WITH RISER AND SOLID BLADE CUTOUTS
5. POLE WITH RISER

WELL #2 - BUILDING SITE

SCALE:1" = 10'

Scale: 1" = 10'-0"

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DRAWN BY: DSE
CHECKED BY: HLS
SUBMITTED BY: RDL
SIZE: ANSI D
ISSUE DATE: 06/09/2026
SOLICITATION NO.:
CONTRACT NO.:
DRAWING CODE:
SHEET 41 OF 66
SCALE: AS SHOWN

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NEW YORK, NY 10278

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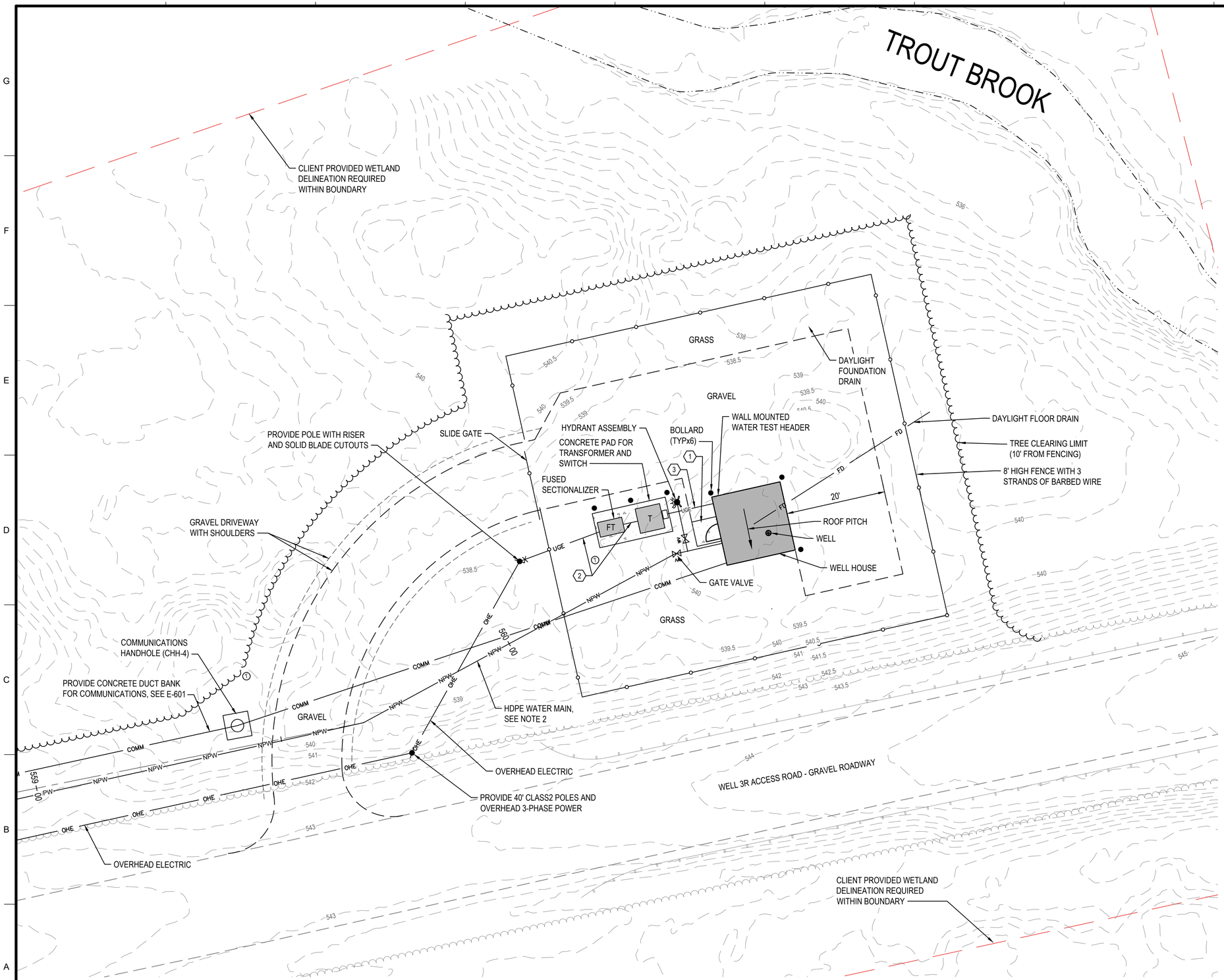
FORT DRUM - WELLS FIELD EXPANSION DB-RFP
FORT DRUM, NEW YORK

WELL #2 - BUILDING SITE

SHEET ID

C-402



WELL #3R - BUILDING SITE

SCALE:1" = 10'

NOTES:

1. OVERHEAD LINES REQUIRE FAA APPROVED OVERHEAD CABLE VISIBILITY MARKERS ON PLEASANT STREET FROM STA 500+00 TO 560+50
2. WATER MAIN PIPING TO BE HDPE DIPS.
3. ALL EXCAVATED SOILS MUST BE USED WITHIN THIS PROJECT AT FORT DRUM. NO SOIL MAY BE HAULED OFF SITE.
4. SEE SHEET C-108 FOR ROADWAY UTILITY PLAN.
5. PROVIDE FOUNDATION DRAINS FOR EACH WELL HOUSE AND DAYLIGHT THE OUTLET AT NEAREST AVAILABLE POINT.
6. UTILITY POLE TYPICAL SPACING IN ACCORDANCE WITH NATIONAL GRID AND FORT DRUM STANDARDS
7. PROVIDE GUY WIRES AND STRAIN POLES IN ACCORDANCE WITH NATIONAL GRID AND FORT DRUM STANDARDS.
8. ALL DISTURBED AREAS AROUND THE WELL HOUSES MUST BE STABILIZED WITH THE FOLLOWING SLOW GROWTH SEED MIX: 35% CREEPING RED FESCUE, 25% HARD FESCUE, 25% CHEWINGS FESCUE, AND 15% SHEEP FESCUE.

KEYED NOTES:

1. PROVIDE CONCRETE LANDING
2. PROVIDE CONDUITS FOR UNDERGROUND ELECTRIC. ENCASE IN CONCRETE DUCT BANK W/TRACER WIRE IN A CONDUIT LAID IN CONCRETE ON TOP OF SPACERS
3. PROVIDE CONDUITS FOR UNDERGROUND SECONDARY ELECTRIC.

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SHEET 42 OF 66

DESIGNED BY: LDA
DRAWN BY: DSE
CHECKED BY: HLS
SUBMITTED BY: BJC
SIZE: ANSI D
SCALE: AS SHOWN

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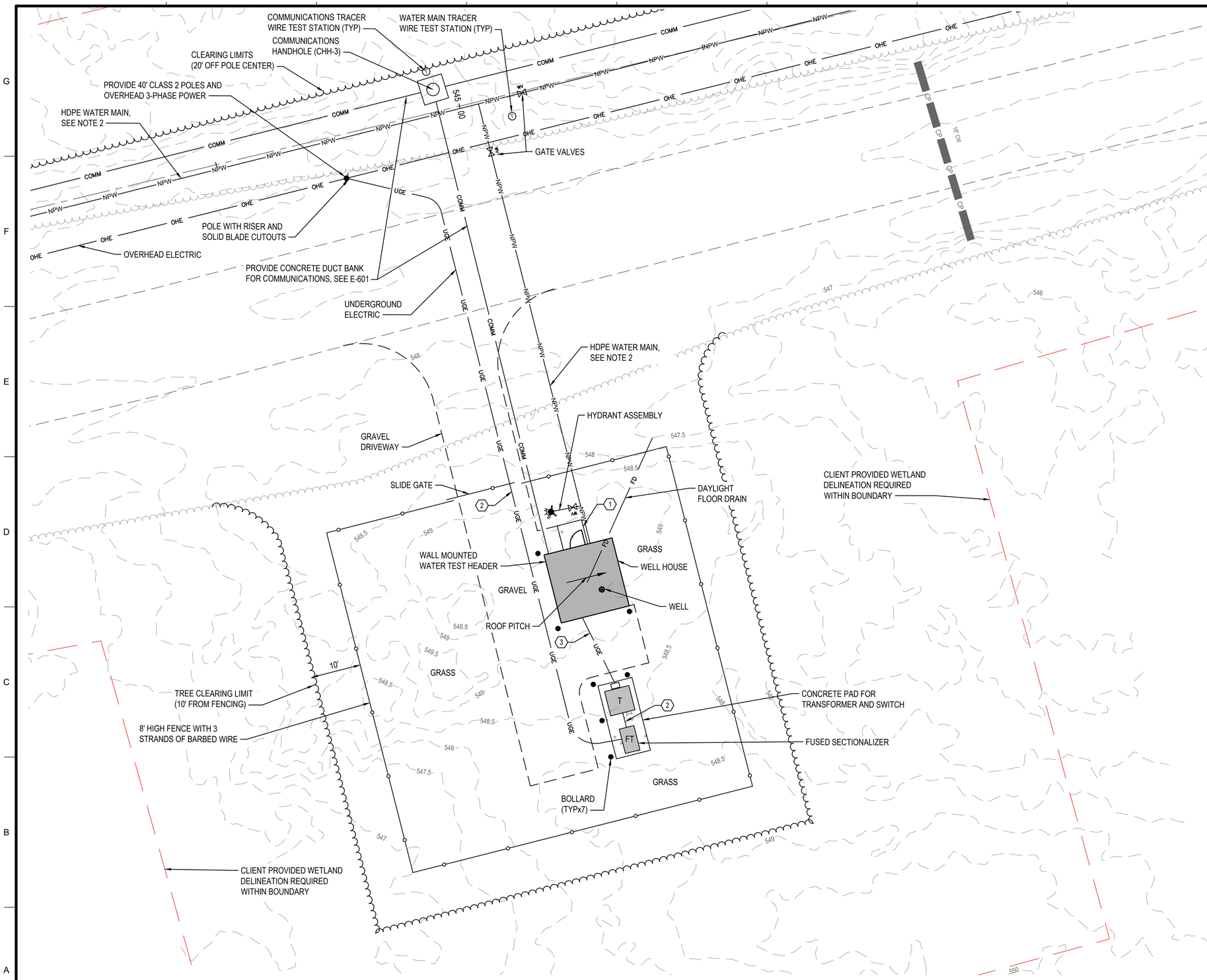
FORT DRUM - WELLS FIELD EXPANSION DB-RFP
FORT DRUM, NEW YORK

WELL #3R - BUILDING SITE

SHEET ID

C-403



WELL #4R - BUILDING SITE

SCALE:1" = 10'

NOTES:

1. OVERHEAD LINES REQUIRE FAA APPROVED OVERHEAD CABLE VISIBILITY MARKERS ON PLEASANT STREET FROM STA 500+00 TO 560+50
2. WATER MAIN PIPING TO BE HDPE DIPS.
3. ALL EXCAVATED SOILS MUST BE USED WITHIN THIS PROJECT AT FORT DRUM. NO SOIL MAY BE HAULED OFF SITE.
4. SEE SHEET C-107 FOR ROADWAY UTILITY PLAN.
5. PROVIDE FOUNDATION DRAINS FOR EACH WELL HOUSE AND DAYLIGHT THE OUTLET AT NEAREST AVAILABLE POINT.
6. UTILITY POLE TYPICAL SPACING IN ACCORDANCE WITH NATIONAL GRID AND FORT DRUM STANDARDS
7. PROVIDE GUY WIRES AND STRAIN POLES IN ACCORDANCE WITH NATIONAL GRID AND FORT DRUM STANDARDS.
8. ALL DISTURBED AREAS AROUND THE WELL HOUSES MUST BE STABILIZED WITH THE FOLLOWING SLOW GROWTH SEED MIX: 35% CREEPING RED FESCUE, 25% HARD FESCUE, 25% CHEWINGS FESCUE, AND 15% SHEEP FESCUE.

KEYED NOTES:

1. PROVIDE CONCRETE LANDING
2. PROVIDE CONDUITS FOR UNDERGROUND ELECTRIC. ENCASE IN CONCRETE DUCT BANK W/TRACER WIRE IN CONDUIT LAID IN CONCRETE ON TOP OF SPACERS
3. PROVIDE CONDUITS FOR UNDERGROUND SECONDARY ELECTRIC.

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CONTRACT NO.:
DRAWING CODE:
SHEET 43 OF 66

DESIGNED BY: LDA
DRAWN BY: DSE
CHECKED BY: HLS
SUBMITTED BY: MJC
SIZE: ANSI D
SCALE: AS SHOWN

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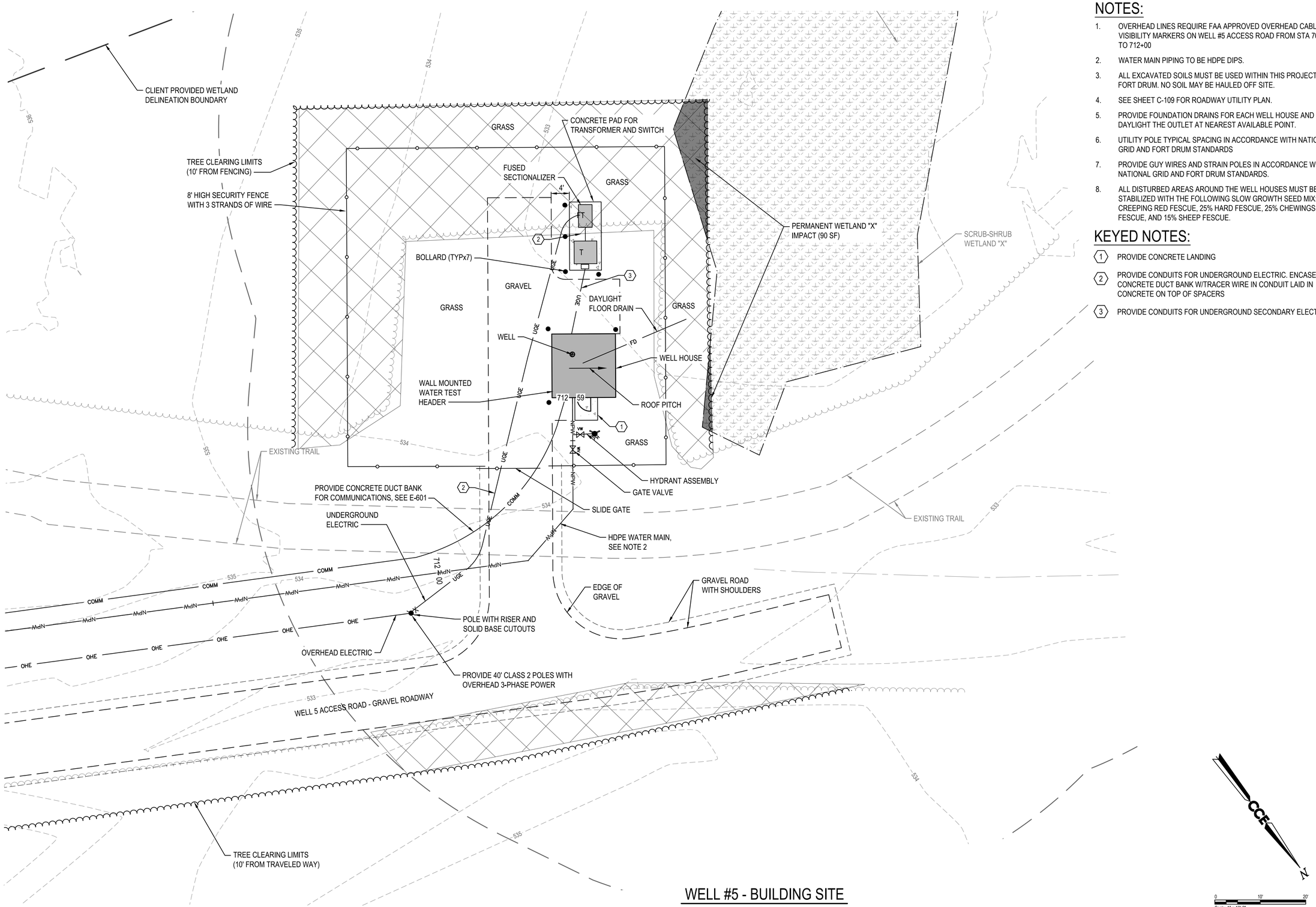
FORT DRUM, NEW YORK

WELL #4R - BUILDING SITE

SHEET ID
C-404



WELL #5 - BUILDING SITE

SCALE:1" = 10'

NOTES:

1. OVERHEAD LINES REQUIRE FAA APPROVED OVERHEAD CABLE VISIBILITY MARKERS ON WELL #5 ACCESS ROAD FROM STA 700+00 TO 712+00
2. WATER MAIN PIPING TO BE HDPE DIPS.
3. ALL EXCAVATED SOILS MUST BE USED WITHIN THIS PROJECT AT FORT DRUM. NO SOIL MAY BE HAULED OFF SITE.
4. SEE SHEET C-109 FOR ROADWAY UTILITY PLAN.
5. PROVIDE FOUNDATION DRAINS FOR EACH WELL HOUSE AND DAYLIGHT THE OUTLET AT NEAREST AVAILABLE POINT.
6. UTILITY POLE TYPICAL SPACING IN ACCORDANCE WITH NATIONAL GRID AND FORT DRUM STANDARDS
7. PROVIDE GUY WIRES AND STRAIN POLES IN ACCORDANCE WITH NATIONAL GRID AND FORT DRUM STANDARDS.
8. ALL DISTURBED AREAS AROUND THE WELL HOUSES MUST BE STABILIZED WITH THE FOLLOWING SLOW GROWTH SEED MIX: 35% CREEPING RED FESCUE, 25% HARD FESCUE, 25% CHEWINGS FESCUE, AND 15% SHEEP FESCUE.

KEYED NOTES:

1. PROVIDE CONCRETE LANDING
2. PROVIDE CONDUITS FOR UNDERGROUND ELECTRIC. ENCASE IN CONCRETE DUCT BANK W/TRACER WIRE IN CONDUIT LAID IN CONCRETE ON TOP OF SPACERS
3. PROVIDE CONDUITS FOR UNDERGROUND SECONDARY ELECTRIC.

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FORT DRUM - WELLS FIELD EXPANSION DB-RFP
FORT DRUM, NEW YORK

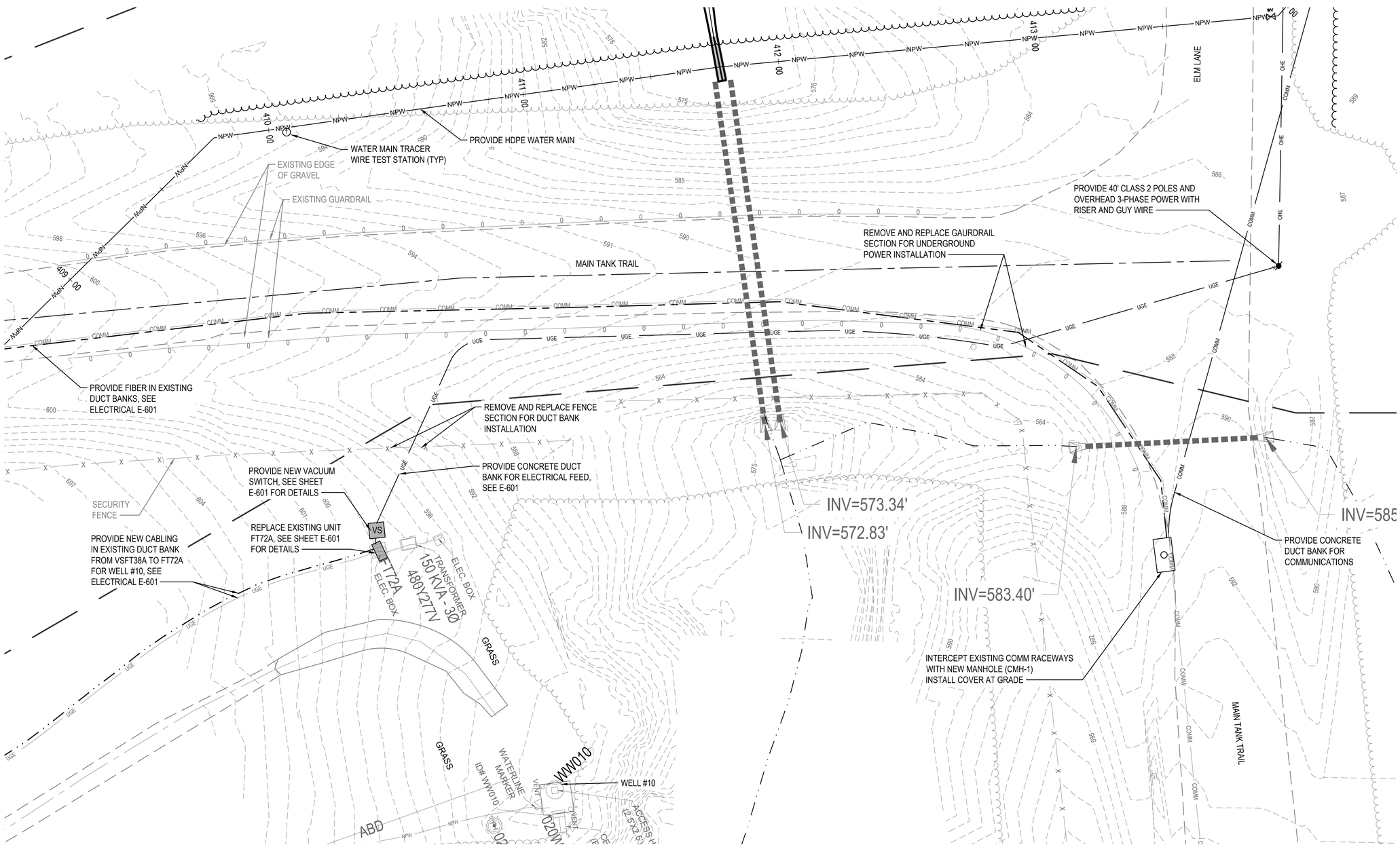
WELL #5 - BUILDING SITE

SHEET ID

C-405

NOTES:

1. SEE SHEET C-114 FOR THE MAIN TANK TRAIL PLAN.
2. SEE SHEET C-115 FOR THE ELM LANE PLAN.
3. WATER MAIN PIPING TO BE HDPE DIPS.
4. UTILITY POLE TYPICAL SPACING IN ACCORDANCE WITH NATIONAL GRID AND FORT DRUM STANDARDS



MAIN TANK TRAIL ENLARGED PLAN - STA 409+00 TO 414+00

SCALE:1" = 20'

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SHEET 45 OF 66

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SUBMITTED BY:
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SCALE: AS SHOWN

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FORT DRUM - WELLS FIELD EXPANSION DB-RFP
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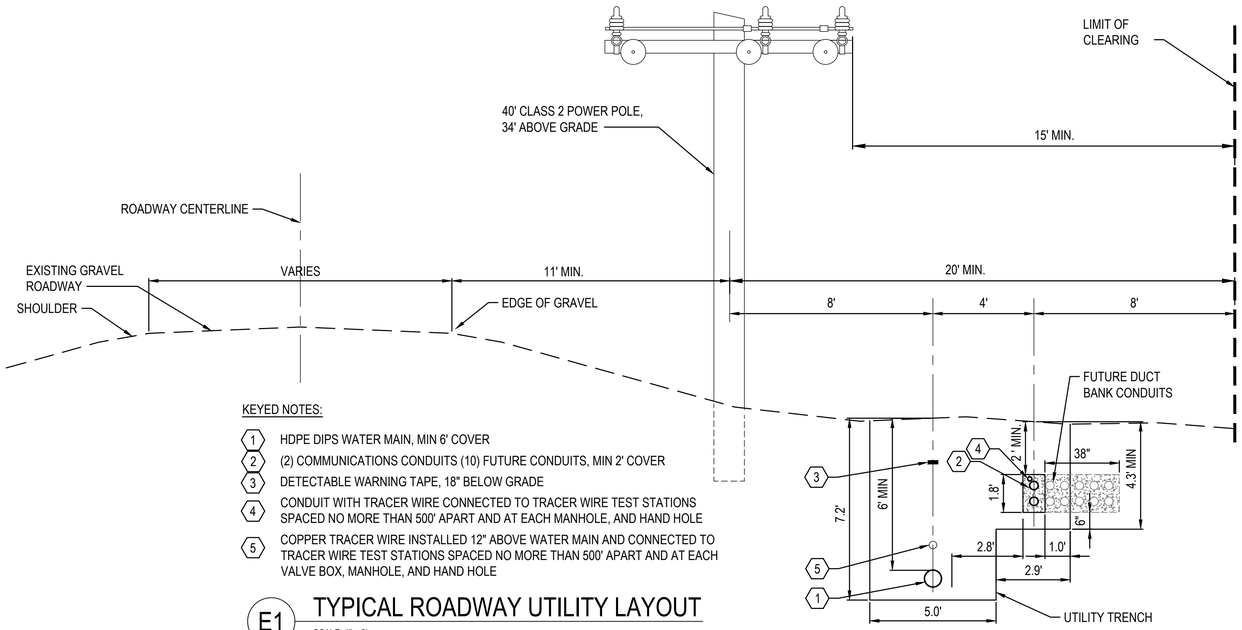
MAIN TANK TRAIL ENLARGED PLAN - STA 409+00 TO 414+00

SHEET ID
C-406

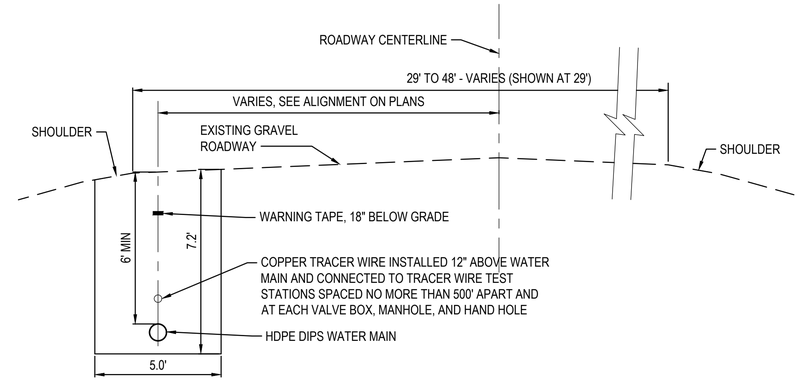


KEYED NOTES:

1. HDPE DIPS WATER MAIN, MIN 6' COVER
2. (2) COMMUNICATIONS CONDUITS (10) FUTURE CONDUITS, MIN 2' COVER
3. DETECTABLE WARNING TAPE, 18" BELOW GRADE
4. CONDUIT WITH TRACER WIRE CONNECTED TO TRACER WIRE TEST STATIONS SPACED NO MORE THAN 500' APART AND AT EACH MANHOLE, AND HAND HOLE
5. COPPER TRACER WIRE INSTALLED 12" ABOVE WATER MAIN AND CONNECTED TO TRACER WIRE TEST STATIONS SPACED NO MORE THAN 500' APART AND AT EACH VALVE BOX, MANHOLE, AND HAND HOLE

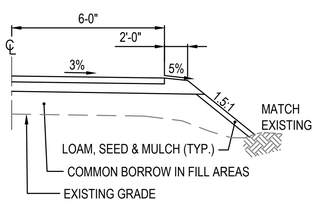
E1 TYPICAL ROADWAY UTILITY LAYOUT

SCALE: 1" = 3'



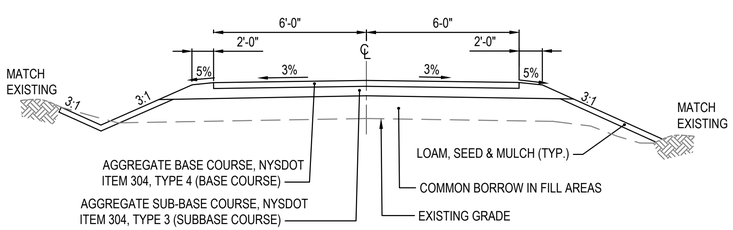
E7 MAIN TANK TRAIL ROADWAY UTILITIES

SCALE: 1" = 3' STA: 300+00 TO 412+00



C1 GRAVEL ROAD SECTION AT WETLAND FILL

SCALE: NOT TO SCALE



A1 TYPICAL GRAVEL WELL ACCESS ROAD SECTION

SCALE: NOT TO SCALE STA: 600+00 TO 612+72, AND 700+00 TO 712+59

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FORT DRUM - WELLS FIELD EXPANSION DB-RFP
FORT DRUM, NEW YORK

ROADWAY AND UTILITY
TYPICAL SECTIONS

SHEET ID
C-501

DESIGN LOADS

DESIGN LOADING BASED ON: (UFC 3-301-01, ASCE 7-22 & IBC 2024)
SEE DESIGN ANALYSIS FOR FULL DESIGN STANDARD REFERENCES.

SEISMIC LOADS:

SITE CLASS:	D
SEISMIC DESIGN CATEGORY:	B
RISK CATEGORY:	II
IMPORTANCE FACTOR:	1.0
0.2 SECOND SPECTRAL RESPONSE FACTOR:	0.23g
1 SECOND SPECTRAL RESPONSE FACTOR:	0.056g

DEAD LOADS:

COLLATERAL:	10 PSF

LIVE LOADS:

ROOF LIVE LOADS:	20 PSF

FLOOR LIVE LOADS:

UNIFORM LOAD	125 PSF
CONCENTRATED LOAD	2,000 LBS

SNOW LOADS:

ULTIMATE GROUND SNOW LOAD, Pg:	105 PSF
EXPOSURE FACTOR, Ce:	1.0
THERMAL FACTOR. Ct:	1.2
FLAT ROOF SNOW LOAD, Pf.:	88.2 PSF
WINTER WIND PARAMETER, W2:	0.45 SNOW DRIFT

WIND LOADS:

RISK CATEGORY:	II
NOMINAL WIND SPEED:	107 MPH
EXPOSURE CATEGORY:	B
TOPOGRAPHIC FACTOR:	1.0
INTERNAL PRESSURE COEFFICENT:	±0.18

ABBREVIATIONS

AFF	ABOVE FINISH FLOOR
@	AT
APPROX.	APPROXIMATELY
ARCH	ARCHITECTURAL
BLDG.	BUILDING
BOT.	BOTTOM
B.O.	BOTTOM OF
C.J.	CONTROL JOINT
℄	CENTER LINE
CLR	CLEAR
COL.	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONT.	CONTINUOUS
DBL.	DOUBLE
DTL.	DETAIL
DIA., ø	DIAMETER
DIM.	DIMENSION
DN	DOWN
DOR	DESIGNER OF RECORD
DWG.	DRAWING
EA.	EACH
EMBED	EMBEDMENT
E.F.	EACH FACE
EL.	ELEVATION
E.O.D.	EDGE OF DECK
EQ.	EQUAL
EQUIP.	EQUIPMENT
EXIST.	EXISTING
EXT.	EXTERIOR
E.W.	EACH WAY
FDN	FOUNDATION
FFE	FINISH FLOOR ELEVATION
FIN.	FINISH
FLR.	FLOOR
F.S.	FAR SIDE
FT	FEET
GA.	GAGE
GALV.	GALVANIZED
GEN.	GENERAL
HORIZ.	HORIZONTAL
HT.	HEIGHT
I.F.	INSIDE FACE
IMP	INSULATED METAL PANEL
IN.	INCH
INT.	INTERIOR
LB	POUNDS
LG	LONG
L.P.	LOW POINT
MANUF.	MANUFACTURER
MAX.	MAXIMUM
MECH.	MECHANICAL
MIN.	MINIMUM
N.S.	NEAR SIDE
NTS	NOT TO SCALE
O.C.	ON CENTER
O.F.	OUTSIDE FACE
ℙℓ	PLATE
R, RAD.	RADIUS
REF	REFERENCE
REQ'D, REQ.	REQUIRED
SECT.	SECTION
SHT.	SHEET
SIM.	SIMILAR
SPEC.	SPECIFICATION
SQ.	SQUARE
STD	STANDARD
STIFF	STIFFENER
TBD, T.B.D.	TO BE DETERMINED
T&B	TOP AND BOTTOM
T.O.	TOP OF
T.O.S.	TOP OF STEEL
THRU	THROUGH
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
VERT.	VERTICAL
VIF, V.I.F.	VERIFY IN FIELD
W/	WITH
W.P.	WORK POINT
WWR	WELDED WIRE REINFORCING

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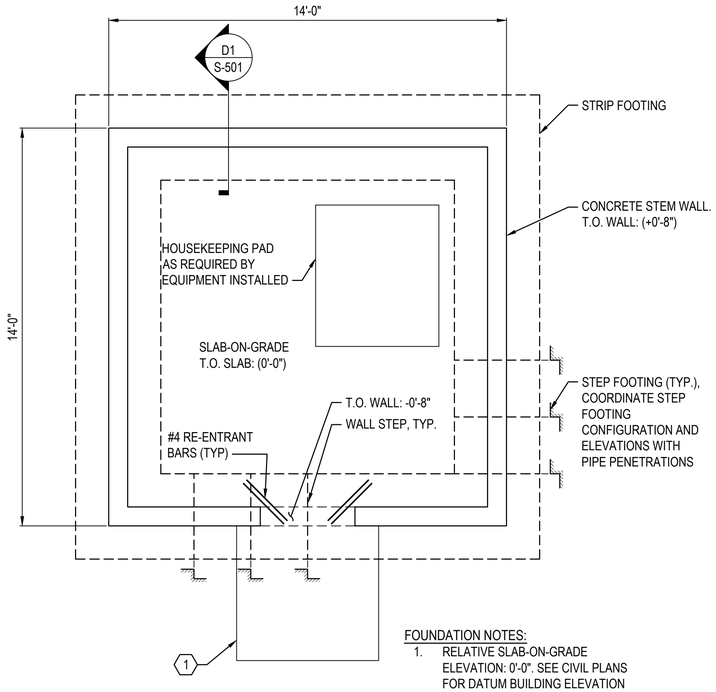
FORT DRUM - WELLS FIELD EXPANSION DB-RFP
FORT DRUM, NEW YORK

STRUCTURAL NOTES

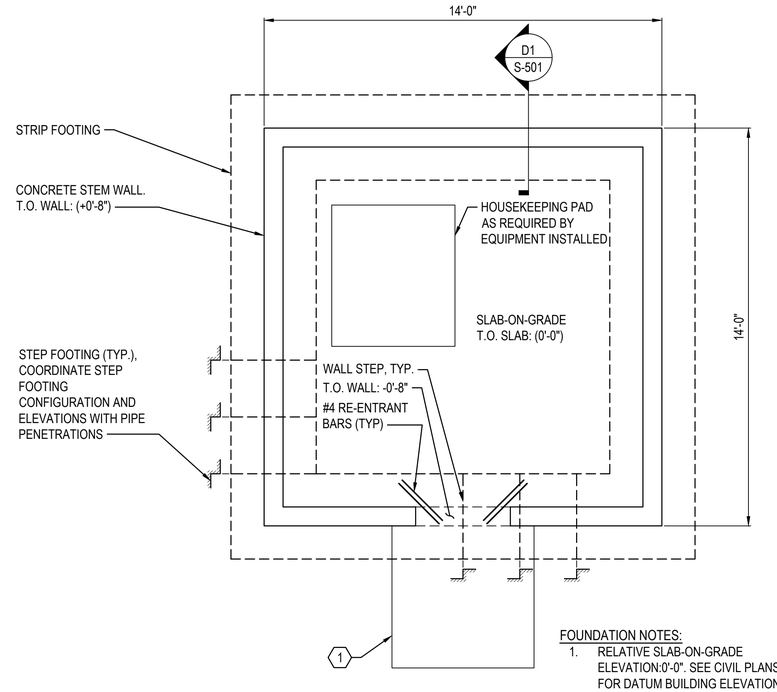
SHEET ID
S-001



FOUNDATION NOTES:
1. RELATIVE SLAB-ON-GRADE ELEVATION: 0'-0". SEE CIVIL PLANS FOR DATUM BUILDING ELEVATION

D1 WELL HOUSES 1 & 3R TYP. FOUNDATION PLAN

SCALE: 3/8" = 1'-0"



FOUNDATION NOTES:
1. RELATIVE SLAB-ON-GRADE ELEVATION:0'-0". SEE CIVIL PLANS FOR DATUM BUILDING ELEVATION

D5 WELL HOUSES 2, 4R, & 5 TYP. FOUNDATION PLAN

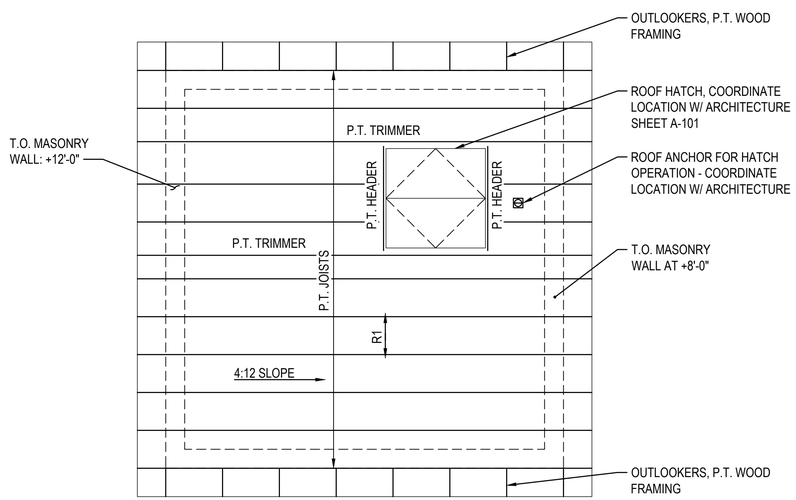
SCALE: 3/8" = 1'-0"

NOTES:

1. SEE DRAWING S-001 FOR GENERAL NOTES AND ABBREVIATIONS.
2. COORDINATE WITH ARCHITECTURAL, PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS.

KEYED NOTES:

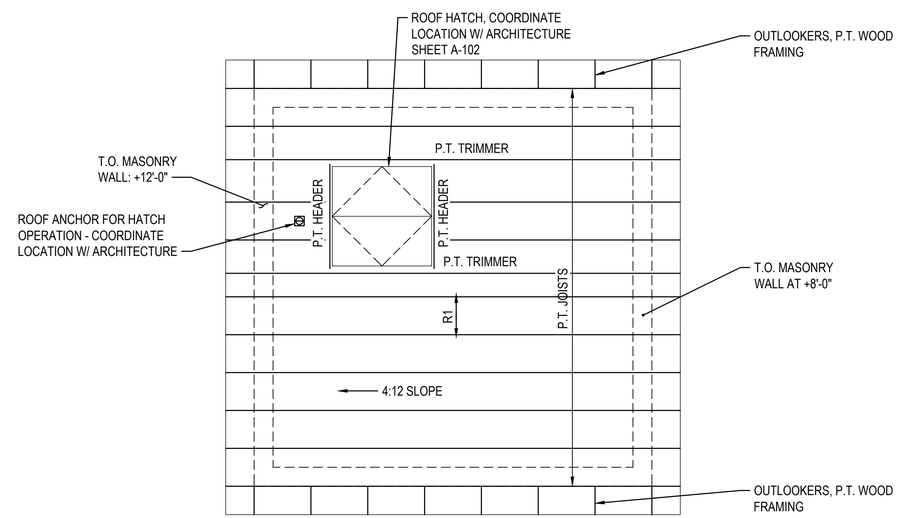
1. CONCRETE WALK OFF PAD. SEE CIVIL DRAWINGS



ROOF FRAMING NOTES:
1. SEE ARCHITECTURAL PLANS FOR WELL HOUSE ORIENTATION

A1 WELL HOUSE 1 & 3R ROOF PLAN

SCALE: 3/8" = 1'-0"



ROOF FRAMING NOTES:
1. SEE ARCHITECTURAL PLANS FOR WELL HOUSE ORIENTATION

A5 WELL HOUSE 2, 4R, & 5 ROOF PLAN

SCALE: 3/8" = 1'-0"

0 2' 4' 6'
Scale: 3/8" = 1'-0"

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SCALE: 1:1

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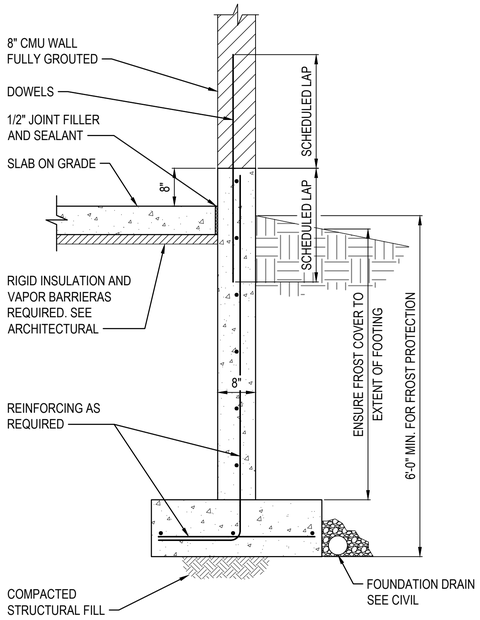
FORT DRUM - WELLS FIELD EXPANSION DB-RFP
FORT DRUM, NEW YORK

STRUCTURAL PLANS

SHEET ID
S-101



D1 TYPICAL FOUNDATION SECTION

SCALE 3/4" = 1'-0" REF. DWG.: S-101

0 1/2' 1' 1 1/2'
Scale: 1 1/2" = 1'-0"

0 1' 2' 3'
Scale: 3/4" = 1'-0"

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DRAWING CODE:
SHEET 49 OF 66
SCALE: 1:1

FORT DRUM - WELLS FIELD EXPANSION DB-RFP
FORT DRUM, NEW YORK

STRUCTURAL DETAILS

SHEET ID
S-501

PLAN GRAPHIC LEGEND

XX / X-XXX	DETAIL PLAN
XX / X-XXX / X	WALL SECTION
X / X-XXX / X / X	INTERIOR ELEVATION
XX / X-XXX	PHOTOGRAPH
X	WALL TYPE
XXX	DOOR TAG
X	WINDOW TAG
X	KEYED NOTES
IDS	MOTION DETECTOR, SEE ELECTRICAL
2	SMOKE DETECTOR, SEE FIRE ALARM SHEET
X'–X"	DIMENSION LINE
OFFICE / XXX	ROOM DESIGNATION ROOM NUMBER
PLAN / NORTH	NORTH ARROW
F.E.	FIRE EXTINGUISHER

ARCHITECTURAL LINE TYPE LEGEND

ITEMS TO BE PROVIDED

TYPICAL ABBREVIATIONS

@	AT
#	NUMBER
±	PLUS OR MINUS
ABA/ABAAS	ARCHITECTURAL BARRIERS ACT ACCESSIBILITY STANDARD
ADA	AMERICANS WITH DISABILITIES ACT
ACT	ACOUSTICAL CEILING TILE
ACM	ASBESTOS CONTAINING MATERIAL
AFF	ABOVE FINISHED FLOOR
ATFP	ANTITERRORISM FORCE PROTECTION
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
BO	BOTTOM OF
A.J.	CONTROL JOINT
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
DIA	DIAMETER
DN	DOWN
DWG	DRAWING
EA	EACH
EF	EXHAUST FAN
EL	ELEVATION
ELEC	ELECTRICAL
EQ	EQUAL
ETC	ETCETERA
EXP	EXPANSION
F	FLUSH
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FF	FINISH FLOOR
FLR	FLOOR
FR	FIRE RATED
FT	FEET
GA	GAUGE
G.C.	GENERAL CONTRACTOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GS	GALVANIZED STEEL
HGT	HEIGHT
HM	HOLLOW METAL
IHM	INSULATED HOLLOW METAL
IMP	INSULATED METAL PANEL
INSUL	INSULATION/INSULATED
IT	INFORMATION TECHNOLOGY
L	LOUVER
MAX	MAXIMUM
MECH	MECHANICAL
MEP	MECHANICAL, ELECTRICAL, PLUMBING
MFR	MANUFACTURER
MIN	MINIMUM
MIR	MIRRORED
MISC	MISCELLANEOUS
M.G.	MASONRY OPENING
MR	MOISTURE RESISTANT
MTL	METAL
N.I.C.	NOT IN CONTRACT
NTS	NOT TO SCALE
NSF	NET SQUARE FEET
OPP	OPPOSITE
OTS	OPEN TO STRUCTURE
PLWD	PLYWOOD
PT	PRESSURE TREATED
PTD	PAINTED
R.O.	ROUGH OPENING
SPEC	SPECIFICATION
SQ.FT	SQUARE FEET
SS	STAINLESS STEEL
STL	STEEL
T.O.	TOP OF
TYP	TYPICAL
UL	UNDERWRITERS LABORATORIES
UNO	UNLESS NOTED OTHERWISE
V.I.F.	VERIFY IN FIELD
WD	WOOD
W/	WITH
WPT	WATER PROOFING TREATMENT

LIFE SAFETY NOTES:

GENERAL BUILDING INFORMATION
CONSTRUCTION OF FIVE WELL HOUSES THAT WILL BE ABOVE GROUND STRUCTURES. THEY WILL NOT BE SPRINKLERED AND THERE ARE NO FIRE ALARMS. A FIRE EXTINGUISHER WILL BE PROVIDED INSIDE NEXT TO THE PERSONNEL DOOR. THE OVERALL HEIGHT IS APPROXIMATELY 15 FEET AT THE TOP OF THE HIGH ROOF, THE NUMBER OF STORIES IS ONE. THE BUILDING AREA FOOTPRINT IS 196 SQUARE FEET.
CONSTRUCTION TYPE VB - ANY MATERIALS PERMITTED BY CODE, UNPROTECTED.
PER NFPA 101, THESE BUILDINGS WILL BE CLASSIFIED AS GENERAL INDUSTRIAL OCCUPANCIES THAT ARE UNOCCUPIED.
PER IBC, THESE BUILDINGS WILL BE CLASSIFIED AS UTILITY (GROUP U) OCCUPANCIES THAT ARE UNOCCUPIED.

APPLICABLE CODES:

UFC REQUIREMENTS

UFC 1-200-01: DOD BUILDING CODE 2022, WITH CHANGE 4; 17 DECEMBER 2024

UFC 1-200-02: HIGH PERFORMANCE AND SUSTAINABLE BUILDING REQUIREMENTS, WITH CHANGE 3, 08 JULY 2025

UFC 3-101-01: ARCHITECTURE, WITH CHANGE 4; 08 JANUARY 2024

UFC 3-110-03: ROOFING, WITH CHANGE 5, 12 JUNE 2020

UFC 3-120-10: INTERIOR DESIGN, WITH CHANGE 3, 22 MAY 2025

UFC 3-210-10: LOW IMPACT DEVELOPMENT, 28 AUGUST 2023

UFC 3-450-01: NOISE AND VIBRATION CONTROL, 08 DECEMBER 2022

UFC 3-600-01: FIRE PROTECTION ENGINEERING FOR FACILITIES, WITH CHANGE 6, 06 MAY 2021

UFC 4-010-01: MINIMUM ANTITERRORISM STANDARDS FOR BUILDINGS, WITH CHANGE 3, 24 MAY 2024

FORT DRUM STANDARDS

FORT DRUM INSTALLATION PLANNING STANDARDS, FINAL EDITION, FEBRUARY 2016, UPDATED MAY 2017

ICC REQUIREMENTS

IBC: INTERNATIONAL BUILDING CODE; 2024

IECC: INTERNATIONAL ENERGY CONSERVATION CODE; 2024

NFPA REQUIREMENTS

NFPA 101: LIFE SAFETY CODE; 2024

ABAAS REQUIREMENTS

ARCHITECTURAL BARRIERS ACT ACCESSIBILITY STANDARDS, 2015

ASHRAE 90.1 (2019)

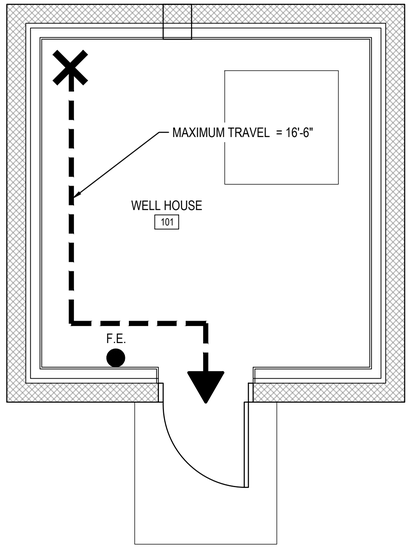
ENERGY STANDARD FOR BUILDINGS EXCEPT LOW-RISE RESIDENTIAL BUILDINGS

LIFE SAFETY LEGEND:

◀	EGRESS POINT
– – ✕	EXIT ROUTE
F.E.	FIRE EXTINGUISHER CABINET
(MT=X')	MAXIMUM TRAVEL DISTANCE

GENERAL NOTES:

1. FIELD VERIFY DIMENSIONS AND CONDITIONS. NOTIFY THE CONTRACTING OFFICER OF ANY INCONSISTENCIES OR OTHER PROBLEMS IN WRITING IMMEDIATELY UPON DISCOVERY, AND BEFORE PROCEEDING WITH THE WORK.
2. INDICATIONS AND NOTATIONS ON THE DRAWINGS APPLYING TO ONE AREA, COMPONENT OR CONDITION, APPLY TO ALL OTHER SIMILAR AREAS, COMPONENTS AND CONDITIONS, UNLESS NOTED OTHERWISE.
3. JOB SITE MUST BE FULLY SECURED/LOCKED DURING AND AT THE END OF EACH WORK PERIOD.
4. WORK MUST BE COORDINATED WITH THE CONTRACTING OFFICER.
5. CLEAR DIMENSIONS ARE TO FINISHED FACE OF CONSTRUCTION AND MUST TAKE PRECEDENCE OVER ANY OTHER DIMENSION.
6. PENETRATIONS MUST BE FLASHED AND SEALED. SEAL PENETRATIONS THROUGH WALLS NOTED WITH STC REQUIREMENTS.
7. EXPOSED NEW PIPES, CONDUITS, DUCTWORK, AND OTHER ITEMS MUST BE PAINTED UNLESS OTHERWISE NOTED.
8. PROVIDE SEALANTS TO AREAS PER STANDARD PRACTICE TO MEET OR EXCEED SOUND, FIRE, AND WEATHER TIGHT REQUIREMENTS.
9. PROVIDE BLOCKING WITHIN THE PROJECT.
10. WOOD BLOCKING (TREATED OR UNTREATED) MUST NOT BE USED IN THE METAL ROOF ASSEMBLY PER UFC 3-110-03 CHAPTER 5.



B9 FLOOR PLAN - LIFE SAFETY

SCALE: 3/8" = 1'-0"

0 2' 4' 6'
Scale: 3/8" = 1'-0"

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MARK	DESCRIPTION	DATE
C	FINAL DB-RFP	06/09/2026
B	PRE-FINAL DB-RFP	02/27/2026
A	DRAFT DB-RFP	01/13/2026

ISSUE DATE: 06/09/2026
SOLICITATION NO.:
CONTRACT NO.:
DRAWING CODE:
SHEET 50 OF 66
SCALE: 1:1

DESIGNED BY: EAC
DRAWN BY: NJC
CHECKED BY:
SNP
SUBMITTED BY:
SIZE: ANSI D

U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
26 FEDERAL PLAZA
NEW YORK, NY 10278

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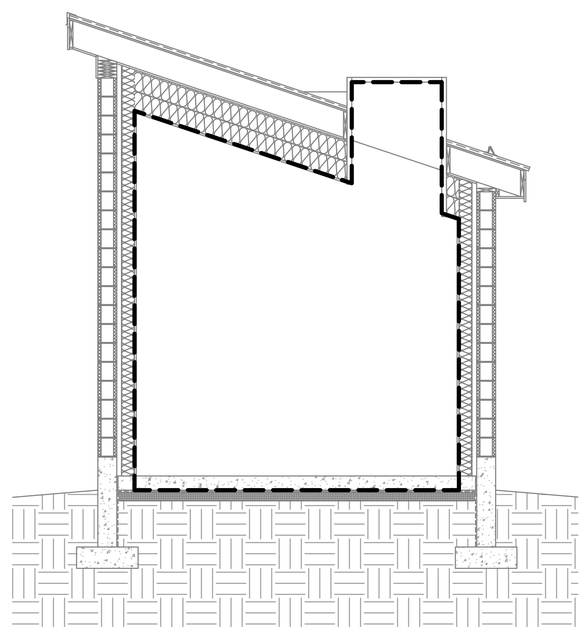
Portland, ME
04101
207.953.7753

FORT DRUM - WELLS FIELD EXPANSION DB-RFP
FORT DRUM, NEW YORK

GENERAL NOTES, LEGEND AND ABBREVIATIONS

SHEET ID
A-001

IECC (2024) /ASHRAE 90.1 (2019) ENVELOPE REQUIREMENTS				
TABLE C402.1.3 & C402.1.4 OPAQUE THERMAL ENVELOPE INSULATION COMPONENT MINIMUM REQUIREMENTS, R-VALUE METHOD & U-VALUE METHOD			ENVELOPE PROVIDED (30% ABOVE MINIMUM PER UFC REQ)	
CLIMATE ZONE 6A				
	R-VALUE MINIMUM	U-VALUE MAXIMUM	R-VALUE	U-VALUE
ROOF				
ATTIC AND OTHER	R-49	U-0.021	R-63.7	U-0.0147
WALLS				
WOOD FRAMED AND OTHER	R-13 + R-7.5ci	U-0.049	R-16.9 + R-9.75ci	U-0.0343
SLAB ON GRADE				
UNHEATED	R-20 FOR 24"	F-0.510	R-26 FOR 24"	F-0.26
FENESTRATION				
DOORS, OPAQUE (SWINGING)	R-2.70	U-0.370	R-3.51	U-0.259



A7 BUILDING SECTION - AIR BARRIER

SCALE 3/8" = 1'-0"

LEGEND:

1. AIR BARRIER PATH

NOTES:

1. THIS SHEET OUTLINES EXTENT OF AN AIR BARRIER ENCLOSURE. PROVIDE AIR BARRIER SYSTEM AS A CONTINUOUS, SEALED, AND UNIFORM BARRIER ALONG ENTIRE EXTERIOR ENCLOSURE THROUGHOUT THE FACILITY AS INDICATED. AIR BARRIER MUST BE CONTIGUOUS, SEALED, AND UNIFORM ACROSS ALL SURFACES AND TRANSITIONS OF ENCLOSED EXTERIOR ENVELOPE INCLUDING ROOFS, WALLS, FOUNDATION, UNDER SLAB ON GRADE, EAVES, AS WELL AS DOOR, WINDOW, AND LOUVER HEADS, JAMBS, AND SILLS.
2. AIR SEAL ALL ELECTRICAL, PLUMBING, AND MECHANICAL AIR BARRIER PENETRATIONS AS PER SPECIFICATIONS UNLESS OTHERWISE NOTED.
3. ALL JOINTS AT OPENINGS, TRANSITIONS AND PENETRATIONS MUST BE SEALED.
4. SPRAY POLYURETHANE FOUM MUST BE USED TO SEAL GAPS IN CONSTRUCTION.

0 2' 4' 6'
Scale: 3/8" = 1'-0"

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SOLICITATION NO.:
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DRAWING CODE:
SHEET 51 OF 66
SCALE: 1:1

DESIGNED BY: EAC
DRAWN BY: NJC
CHECKED BY: SNP
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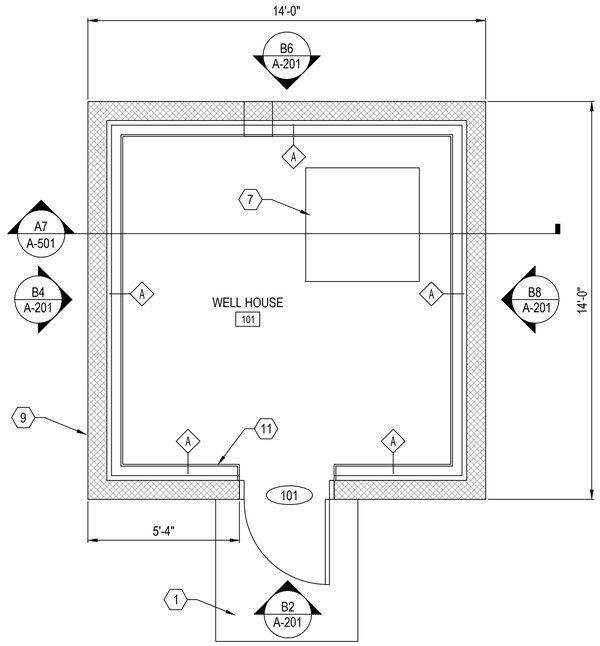
FORT DRUM - WELLS FIELD EXPANSION DB-RFP
FORT DRUM, NEW YORK

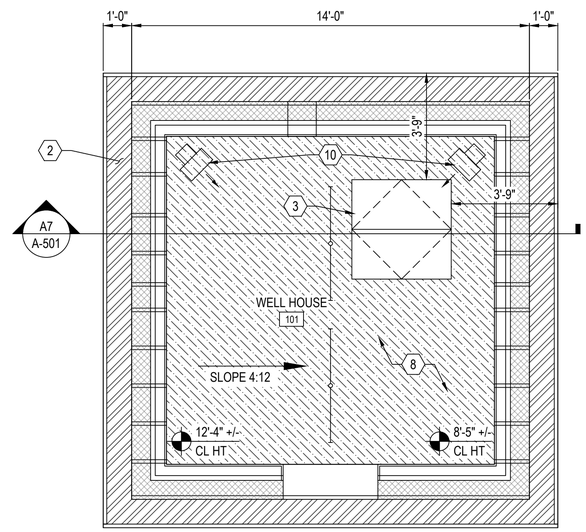
AIR BARRIER AND ENVELOPE REQUIREMENTS

SHEET ID
A-002



D3 WELL HOUSES 1, 3R, 5 FLOOR PLAN

SCALE: 3/8" = 1'-0"



D6 WELL HOUSES 1, 3R, 5 REFLECTED CEILING PLAN

SCALE: 3/8" = 1'-0"

RCP LEGEND:

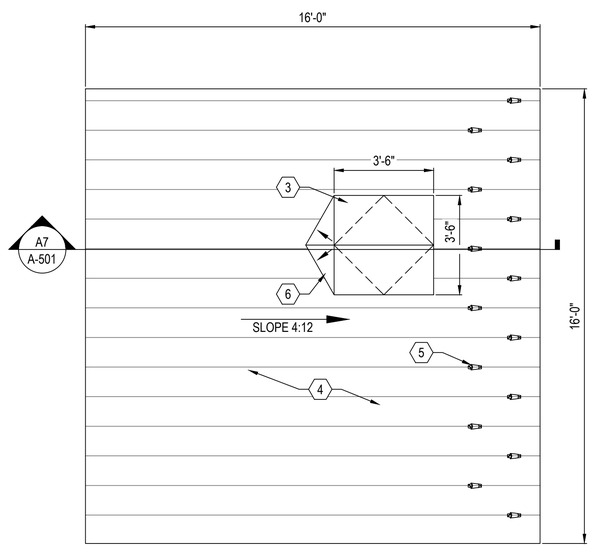
- LIGHT FIXTURE, SEE E-401
- PLYWOOD CEILING
- VENTED SOFFIT WITH METAL FLASHING

NOTES:

1. SEE DRAWING A-001 FOR GENERAL NOTES, LEGEND, AND ABBREVIATIONS.
2. SEE DRAWING A-501 FOR WALL TYPE AND DETAILS.
3. COORDINATE WITH MECHANICAL, ELECTRICAL, PLUMBING, FIRE ALARM/FIRE PROTECTION AND STRUCTURAL DRAWINGS.
4. EXTERIOR DIMENSIONS ARE MEASURED TO EXTERIOR FACE OF STRUCTURAL WALL OR FOUNDATION WALL.
5. THE NORTH ARROW ON SHEET A-102 IS REFERENCED TO WELL HOUSE #2. COORDINATE WITH CIVIL DRAWINGS C-401 THROUGH C-405 TO ACCURATELY LOCATE THE NORTH ARROW ON EACH WELL HOUSE.
6. SIGNAGE TO BE SURFACE MOUNTED. APPROVAL FROM FORT DRUM'S PUBLIC WORKS DEPARTMENT PRIOR TO INSTALLATION IS REQUIRED. REFER TO A-201 FOR APPROXIMATE LOCATION OF BUILDING SIGNAGE.

KEYED NOTES:

1. CONCRETE WALK OFF PAD. SEE CIVIL C-402-405.
2. VENTED SOFFIT WITH METAL FLASHING FOR STANDING SEAM METAL ROOF, EXTEND SOFFIT 12 INCHES MIN BEYOND THE EXTERIOR WALL.
3. 3'-6" X 3'-6" INSULATED ROOF HATCH AND CURB, SAFETY TIE OFF ROOF ANCHOR TO BE PROVIDED. FASTENERS MUST BE SELF SEALING, SEE SPECIFICATIONS. SEE STRUCTURAL FOR FRAMING AND TIE OFF LOCATION S-101. SEE DETAIL D1/A-501.
4. COLD ROOF STANDING SEAM METAL ROOF ASSEMBLY. SEE DETAIL A1/A-501.
5. ICE BREAKS. FASTENERS MUST BE SELF SEALING, SEE SPECIFICATIONS.
6. ROOF CRICKET.
7. CONCRETE HOUSEKEEPING PAD, SEE STRUCTURAL DRAWING S-101.
8. 3/4" PLYWOOD CEILING.
9. WATER HEAD TESTER. SEE PLUMBING.
10. CEILING HUNG EXHAUST FAN. ENSURE ROOF HATCH AREA IS NOT OBSTRUCTED BY MECHANICAL EQUIPMENT. SEE MECHANICAL DRAWINGS.
11. APPROXIMATE LOCATION OF SURFACE MOUNTED 10LB. ABC TYPE FIRE EXTINGUISHER.



A3 WELL HOUSE 1, 3R, 5 ROOF PLAN

SCALE: 3/8" = 1'-0"

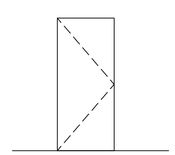
DOOR SCHEDULE

ID	LOCATION	LEAFS	TYPE	HEIGHT	WIDTH	THICKNESS	DOOR MATERIAL	DOOR FINISH	FRAME MATERIAL	FRAME FINISH	FRAME TYPE	DETAILS	FIRE RATING	HARDWARE SET	REMARKS
101	WELL HOUSE TO EXTERIOR	1	F	7'-0"	3'-0"	1-3/4"	IHM	PTD	HM	PTD	1	D6/A-501, D8/A-501, D10/A-501	N/A	1	

1. REFER TO SPECIFICATION 08 71 00 DOOR HARDWARE FOR HARDWARE SET NUMBERS.
2. GROUT NEW FRAME IN INTERIOR MASONRY WALLS.
3. VERIFY ROUGH OPENINGS AND COORDINATE WITH STRUCTURAL.
4. VERIFY THROAT SIZES OF DOOR FRAMES.
5. PROVIDE DOORS PER MANUFACTURER'S REQUIREMENTS.

HARDWARE SET 1:

- 1 LOCKSET (STORAGE) LEVER HANDLE
- 1 CLOSER
- 3 WIDE THROW HINGES
- 2 KICK PLATES
- 1 THRESHOLD
- 1 SET OF WEATHER STRIPPING
- 1 OVERHEAD HOLDER
- 1 DOOR BOLT
- 3 DOOR STOPS AND SILENCERS

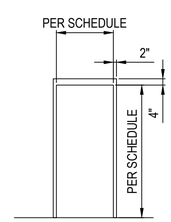


F

INSULATED HOLLOW METAL DOOR
U-0.37 MAX

A4 DOOR TYPE

SCALE: 1/4" = 1'-0" A-101

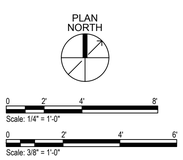


1

GROUTED METAL FRAME
U-0.37 MAX

A5 DOOR FRAME

SCALE: 1/4" = 1'-0" A-101



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DESIGNED BY: EAC
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CHECKED BY: SNP
SUBMITTED BY: RLC
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SOLICITATION NO.:
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SHEET 52 OF 66
SCALE: 1:1

U.S. ARMY CORPS OF ENGINEERS
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26 FEDERAL PLAZA
NEW YORK, NY 10278

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04101
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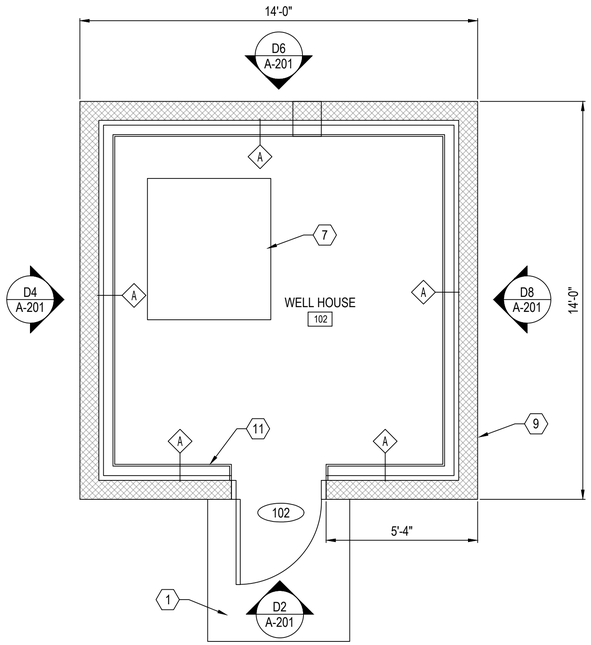
FORT DRUM - WELLS FIELD EXPANSION DB-RFP
FORT DRUM, NEW YORK

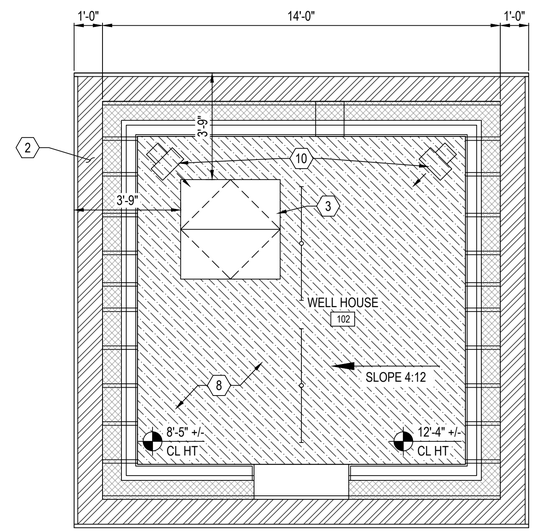
ARCHITECTURAL FLOOR PLAN

SHEET ID
A-101



D3 WELL HOUSES 2, 4R FLOOR PLAN

SCALE: 3/8" = 1'-0"



D6 WELL HOUSES 2, 4R REFLECTED CEILING PLAN

SCALE: 3/8" = 1'-0"

RCP LEGEND:

- LIGHT FIXTURE, SEE E-401
- PLYWOOD CEILING
- VENTED SOFFIT WITH METAL FLASHING

NOTES:

1. SEE DRAWING A-001 FOR GENERAL NOTES, LEGEND, AND ABBREVIATIONS.
2. SEE DRAWING A-501 FOR WALL TYPE AND DETAILS.
3. COORDINATE WITH MECHANICAL, ELECTRICAL, PLUMBING, FIRE ALARM/FIRE PROTECTION AND STRUCTURAL DRAWINGS.
4. EXTERIOR DIMENSIONS ARE MEASURED TO EXTERIOR FACE OF STRUCTURAL WALL OR FOUNDATION WALL.
5. THE NORTH ARROW ON SHEET A-102 IS REFERENCED TO WELL HOUSE #2. COORDINATE WITH CIVIL DRAWINGS C-401 THROUGH C-405 TO ACCURATELY LOCATE THE NORTH ARROW ON EACH WELL HOUSE.
6. SIGNAGE TO BE SURFACE MOUNTED. APPROVAL FROM FORT DRUM'S PUBLIC WORKS DEPARTMENT PRIOR TO INSTALLATION IS REQUIRED. REFER TO A-201 FOR APPROXIMATE LOCATION OF BUILDING SIGNAGE.

KEYED NOTES:

1. CONCRETE WALK OFF PAD. SEE CIVIL C-402-405.
2. VENTED SOFFIT WITH METAL FLASHING FOR STANDING SEAM METAL ROOF, EXTEND SOFFIT 12 INCHES MIN BEYOND THE EXTERIOR WALL.
3. 3'-6" X 3'-6" INSULATED ROOF HATCH AND CURB, SAFETY TIE OFF ROOF ANCHOR TO BE PROVIDED. FASTENERS MUST BE SELF SEALING, SEE SPECIFICATIONS. SEE STRUCTURAL FOR FRAMING AND TIE OFF LOCATION S-101. SEE DETAIL D1/A-501.
4. COLD ROOF STANDING SEAM METAL ROOF ASSEMBLY. SEE DETAIL A1/A-501.
5. ICE BREAKS. FASTENERS MUST BE SELF SEALING, SEE SPECIFICATIONS.
6. ROOF CRICKET.
7. CONCRETE HOUSEKEEPING PAD, SEE STRUCTURAL DRAWING S-101.
8. 3/4" PLYWOOD CEILING.
9. WATER HEAD TESTER. SEE PLUMBING.
10. CEILING HUNG EXHAUST FAN. ENSURE ROOF HATCH AREA IS NOT OBSTRUCTED BY MECHANICAL EQUIPMENT. SEE MECHANICAL DRAWINGS.
11. APPROXIMATE LOCATION OF SURFACE MOUNTED 10LB. ABC TYPE FIRE EXTINGUISHER.

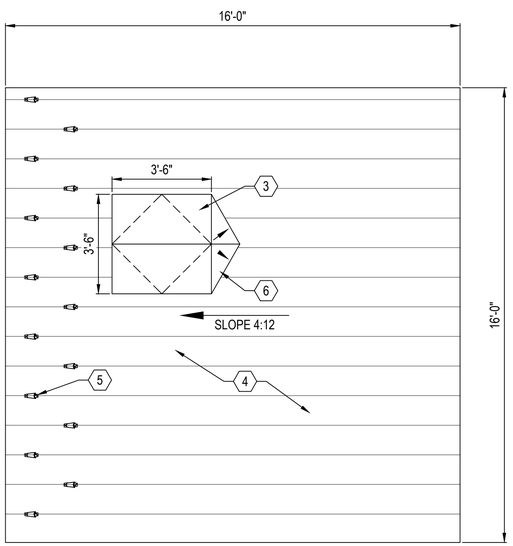
DOOR SCHEDULE

ID	LOCATION	LEAFS	TYPE	HEIGHT	WIDTH	THICKNESS	DOOR MATERIAL	DOOR FINISH	FRAME MATERIAL	FRAME FINISH	FRAME TYPE	DETAILS	FIRE RATING	HARDWARE SET	REMARKS
102	WELL HOUSE TO EXTERIOR	1	F	7'-0"	3'-0"	1-3/4"	IHM	PTD	HM	PTD	1	D6/A-501, D8/A-501, D10/A-501	N/A	1	

1. REFER TO SPECIFICATION 08 71 00 DOOR HARDWARE FOR HARDWARE SET NUMBERS.
2. GROUT NEW FRAME IN INTERIOR MASONRY WALLS.
3. VERIFY ROUGH OPENINGS AND COORDINATE WITH STRUCTURAL.
4. VERIFY THROAT SIZES OF DOOR FRAMES.
5. PROVIDE DOORS PER MANUFACTURER'S REQUIREMENTS.

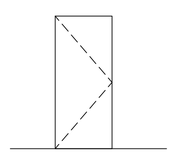
HARDWARE SET 1:

1	LOCKSET (STORAGE) LEVER HANDLE
1	CLOSER
3	WIDE THROW HINGES
2	KICK PLATES
1	THRESHOLD
1	SET OF WEATHER STRIPPING
1	OVERHEAD HOLDER
1	DOOR BOLT
3	DOOR STOPS AND SILENCERS



A3 WELL HOUSES 2, 4R ROOF PLAN

SCALE: 3/8" = 1'-0"

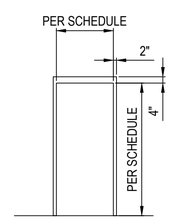


F

INSULATED HOLLOW METAL DOOR
U-0.37 MAX

A4 DOOR TYPE

SCALE: 1/4" = 1'-0" A-101

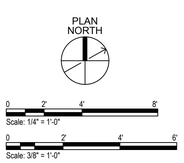


1

GROUTED METAL FRAME
U-0.37 MAX

A5 DOOR FRAME

SCALE: 1/4" = 1'-0" A-101



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B	PRE-FINAL DB-RFP	02/27/2026
A	DRAFT DB-RFP	01/13/2026

DESIGNED BY: EAC
DRAWN BY: NJC
CHECKED BY: SNP
SUBMITTED BY: RDZ
SIZE: ANSI D
ISSUE DATE: 06/09/2026
SOLICITATION NO.:
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DRAWING CODE:
SCALE: 1:1
SHEET 53 OF 66

U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
26 FEDERAL PLAZA
NEW YORK, NY 10278

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Portland, ME
04101
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FORT DRUM - WELLS FIELD EXPANSION DB-RFP
FORT DRUM, NEW YORK

WELL HOUSES 2-5
ARCHITECTURAL PLANS

SHEET ID
A-102

ROOM FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	FLOOR FINISH	BASE	HEIGHT	NORTH WALL	EAST WALL	SOUTH WALL	WEST WALL	CEILING MATERIAL	CEILING HEIGHT	REMARKS
101	WELL HOUSE 1	CONC	-	-	PLWD	PLWD	PLWD	PLWD	PLWD	VARIES	PRESSURE TREATED PLYWOOD
102	WELL HOUSE 2	CONC	-	-	PLWD	PLWD	PLWD	PLWD	PLWD	VARIES	PRESSURE TREATED PLYWOOD
103	WELL HOUSE 3R	CONC	-	-	PLWD	PLWD	PLWD	PLWD	PLWD	VARIES	PRESSURE TREATED PLYWOOD
104	WELL HOUSE 4R	CONC	-	-	PLWD	PLWD	PLWD	PLWD	PLWD	VARIES	PRESSURE TREATED PLYWOOD
105	WELL HOUSE 5	CONC	-	-	PLWD	PLWD	PLWD	PLWD	PLWD	VARIES	PRESSURE TREATED PLYWOOD

EXTERIOR FINISH LEGEND

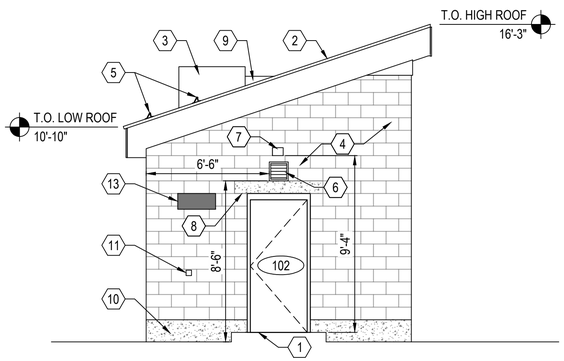
ITEM	DESIGNATION	COLOR	SIZE	REMARKS
ROOF	STANDING SEAM METAL	GRAY TWEED	-	
LOUVERS	METAL	MATCH ROOF, WALL, OR DOOR COLOR	VARIES	
DOORS	HOLLOW METAL	CHARCOAL BLACK	3'-0" x 7'-0"	
BUILDING MATERIALS - SPLIT FACE CMU - TAN	MORTAR TINT	LIGHT GRAY	-	
	SEALANT	ALUMINUM GRAY	-	

NOTES:

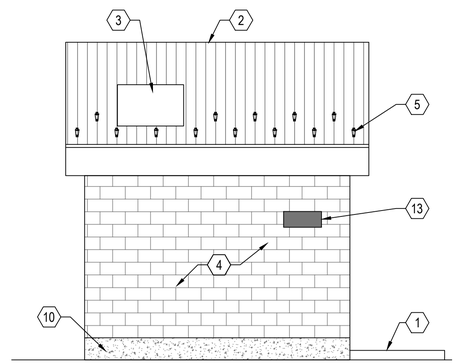
1. SEE DRAWING A-001 FOR GENERAL NOTES, LEGEND AND ABBREVIATIONS.
2. COORDINATE WITH MECHANICAL, ELECTRICAL, PLUMBING AND STRUCTURAL DRAWINGS.
3. THE ELEVATIONS FOR WELL HOUSES 2-5 ARE BASED ON THE ORIENTATION OF WELL HOUSE 2. COORDINATE WITH CIVIL DRAWINGS C-401 THROUGH C-405 TO ACCURATELY ORIENT EACH ELEVATION OF EACH WELL HOUSE.
4. SIGNAGE TO BE SURFACE MOUNTED. APPROVAL FROM FORT DRUM'S PUBLIC WORKS DEPARTMENT PRIOR TO INSTALLATION IS REQUIRED. REFER TO A-201 FOR APPROXIMATE LOCATION OF BUILDING SIGNAGE.

KEYED NOTES:

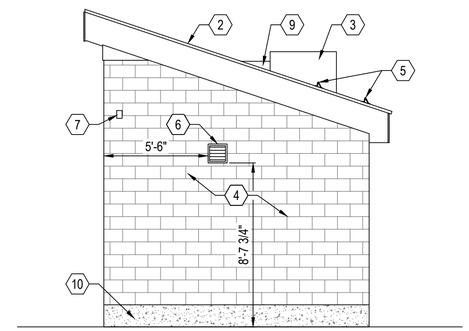
1. CONCRETE WALK OFF PAD. SEE CIVIL C-401-405.
2. COLD ROOF STANDING SEAM METAL ROOF ASSEMBLY; R-63.7 MIN.
3. 3'-6" X 3'-6" INSULATED ROOF HATCH AND CURB. FASTENERS MUST BE SELF SEALING, SEE SPECIFICATIONS. SEE STRUCTURAL FOR FRAMING S-101. SEE DETAIL D1/A-501.
4. 8" SPLIT FACE CMU WALLS, SEE STRUCTURAL S-101.
5. ICE BREAKS. FASTENERS MUST BE SELF SEALING, SEE SPECIFICATIONS.
6. MECHANICAL LOUVER. SEE PTS SECTION D304001 1.2 AND 1.3 AND PTS SECTION B201005 1.1 FOR SIZING CRITERIA AND FINISH.
7. EXTERIOR LIGHTING, SEE ELECTRICAL SHEET E-401.
8. LINTEL, COORDINATE WITH STRUCTURAL DRAWINGS.
9. CRICKET.
10. CONCRETE FOUNDATION WALL.
11. 36" A.F.F. WP RECEPTACLE, SEE ELECTRICAL E-401.
12. WATER TEST HEADER, PROVIDE SIGNAGE ABOVE HEADER TO INDICATE IT IS NOT FOR FIRE FIGHTING PURPOSES. SEE PLUMBING.
13. SURFACE MOUNTED SIGNAGE, REFER TO NOTE 4.



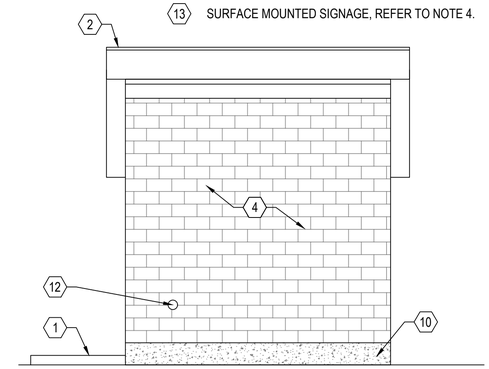
D2 WELL HOUSES 2,4R - EAST ELEVATION
SCALE 1/4" = 1'-0" REF. DWG.: A-102



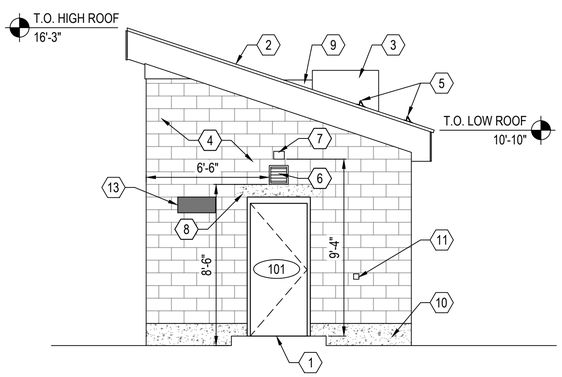
D4 WELL HOUSES 2,4R - NORTH ELEVATION
SCALE 1/4" = 1'-0" REF. DWG.: A-102



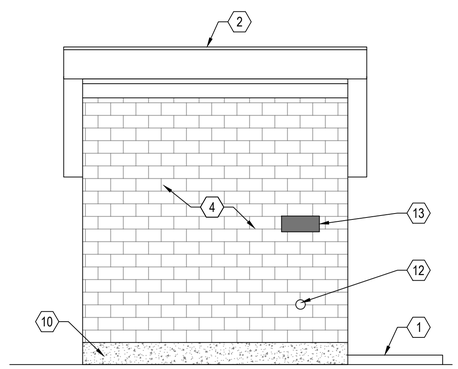
D6 WELL HOUSES 2,4R - WEST ELEVATION
SCALE 1/4" = 1'-0" REF. DWG.: A-102



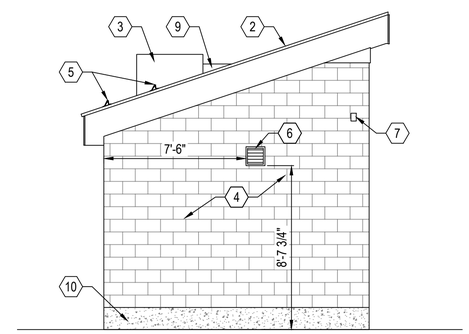
D8 WELL HOUSES 2,4R - SOUTH ELEVATION
SCALE 1/4" = 1'-0" REF. DWG.: A-101



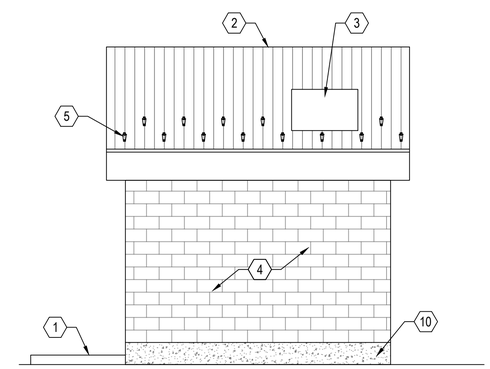
B2 WELL HOUSES 1,3R,5 - SOUTH ELEVATION
SCALE 1/4" = 1'-0" REF. DWG.: A-101



B4 WELL HOUSES 1,3R,5 - WEST ELEVATION
SCALE 1/4" = 1'-0" REF. DWG.: A-101



B6 WELL HOUSES 1,3R,5 - NORTH ELEVATION
SCALE 1/4" = 1'-0" REF. DWG.: A-101



B8 WELL HOUSES 1,3R,5 - EAST ELEVATION
SCALE 1/4" = 1'-0" REF. DWG.: A-101

Scale: 1/4" = 1'-0"

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SOLICITATION NO.:
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DRAWING CODE:
SCALE: 1:1
SHEET 54 OF 66

U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
26 FEDERAL PLAZA
NEW YORK, NY 10278

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04101
207.353.7753

FORT DRUM - WELLS FIELD EXPANSION DB-RFP
FORT DRUM, NEW YORK

EXTERIOR ELEVATIONS

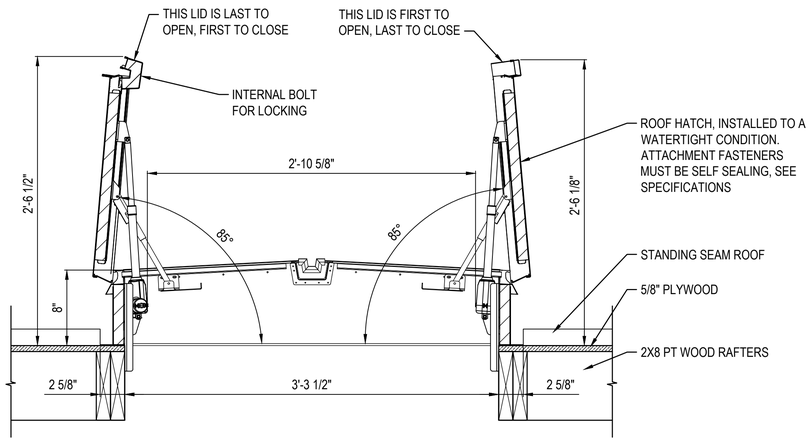
SHEET ID
A-201

NOTES:

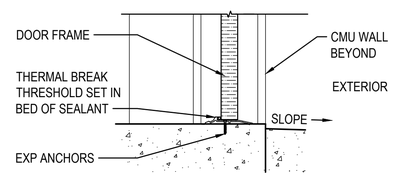
1. SEE DRAWING A-001 FOR GENERAL NOTES, LEGEND AND ABBREVIATIONS.
2. COORDINATE WITH MECHANICAL, ELECTRICAL, PLUMBING AND STRUCTURAL DRAWINGS.

KEYED NOTES:

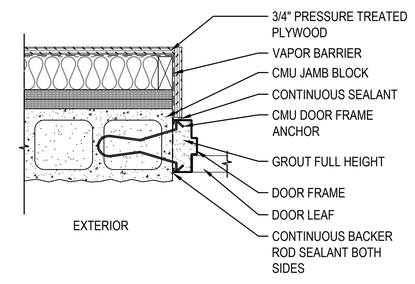
1. PROVIDE EXTRUDED POLYSTYRENE INSULATION UNDER THE SLAB, R-26 MIN.
2. PROVIDE VAPOR RETARDER UNDER THE SLAB. COORDINATE W/STRUCTURAL.
3. ICE BREAKS. FASTENERS MUST BE SELF SEALING, SEE SPECIFICATIONS.
4. TYPE 1 MINERAL WOOL INSULATION, R-63.7 MIN.
5. 5/8" PLYWOOD DECK.
6. ROOF UNDERLAYMENT.
7. STANDING SEAM METAL ROOF.
8. 3/4" PLYWOOD CEILING.
9. METAL PERIMETER FASCIA FLASHING.
10. VENTED SOFFIT WITH METAL FLASHING, EXTEND SOFFIT 12 INCHES MIN BEYOND THE EXTERIOR WALL.
11. CRICKET.
12. VAPOR BARRIER.
13. CONTROL JOINT, SEE STRUCTURAL DRAWINGS.
14. PRE-FABRICATED VENT BAFFLE FOR COLD ROOF SYSTEM.
15. 2X8 PT WOOD RAFTERS.



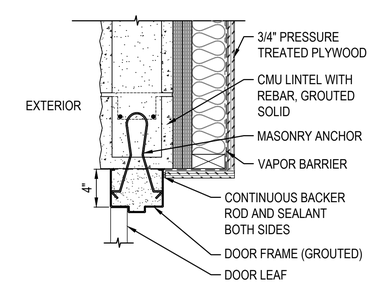
D1 ROOF HATCH DETAIL AT METAL ROOF
SCALE: 1-1/2" = 1'-0"



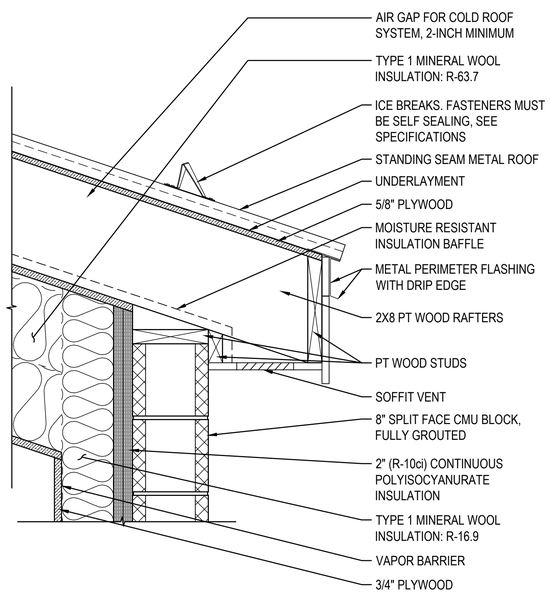
D6 DOOR SILL
SCALE: 1-1/2" = 1'-0"



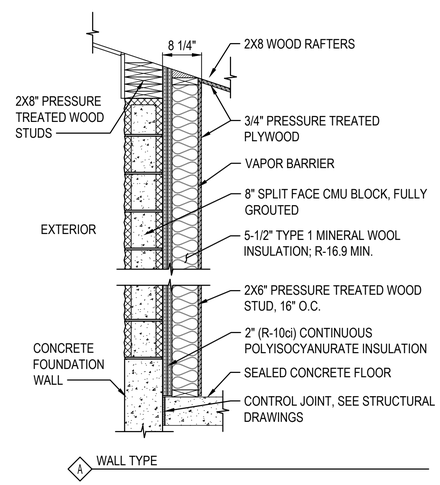
D8 DOOR JAMB
SCALE: 1-1/2" = 1'-0"



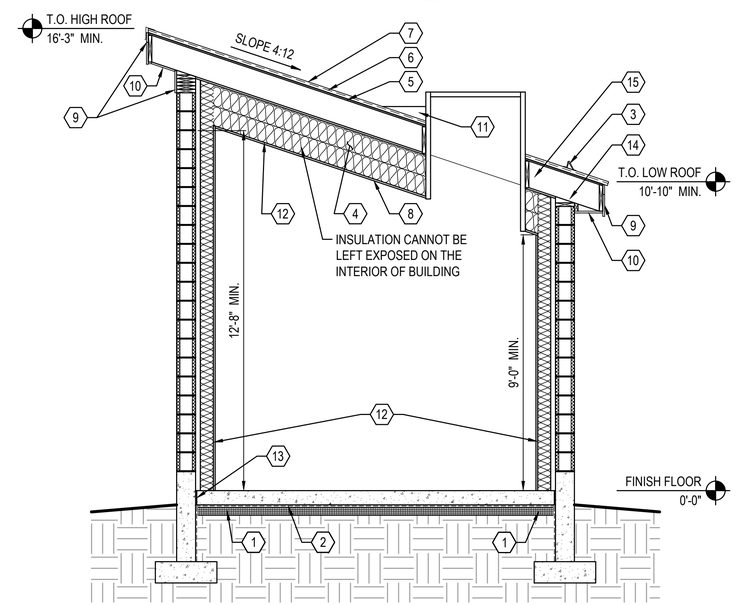
D10 DOOR HEAD
SCALE: 1-1/2" = 1'-0"



A1 COLD ROOF DETAIL AT EAVE
SCALE: 1-1/2" = 1'-0"



A4 WALL PARTITION
SCALE 3/4" = 1'-0" REF. DWG.: A-101



A7 WELL HOUSE 1 - BUILDING SECTION
SCALE 3/8" = 1'-0" REF. DWG.: A-101

Scale: 1 1/2" = 1'-0"
Scale: 3/4" = 1'-0"
Scale: 3/8" = 1'-0"

US Army Corps of Engineers®

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ISSUE DATE: 06/09/2026
SOLICITATION NO.:
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DRAWING CODE:
SHEET 55 OF 66

DESIGNED BY: EAC
DRAWN BY: NJC
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SUBMITTED BY: RZC
SIZE: ANSI D
SCALE: 1:1

U.S. ARMY CORPS OF ENGINEERS
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26 FEDERAL PLAZA
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FORT DRUM - WELLS FIELD EXPANSION DB-RFP
FORT DRUM, NEW YORK

ARCHITECTURAL DETAILS

SHEET ID
A-501

ABBREVIATIONS

@	AT
AD	AREA DRAIN
AFF	ABOVE FINISHED FLOOR
AG	ABOVE GROUND
ARCH	ARCHITECTURAL
BAS	BUILDING AUTOMATED SYSTEM
CO	CLEANOUT
CONC	CONCRETE
D	DRAIN
DDC	DIRECT DIGITAL CONTROL
DEG	DEGREE
DIA	DIAMETER
DWG	DRAWING
F	FAHRENHEIT
FD	FLOOR DRAIN
FT	FOOT/FEET
GAL	GALLON
GPM	GALLONS PER MINUTE
HB	HOSE BIBB
HP	HORSEPOWER
HZ	HERTZ
IN	INCHES
INS	INSULATION
LBS	POUNDS
MAG	MAGNETIC
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NUMBER
PH	PHASE
PSIG	POUNDS PER SQUARE INCH GAUGE
PVC	POLYVINYL CHLORIDE
SCADA	SUPERVISORY CONTROL AND DATA ACQUISITION
SCHD	SCHEDULE
SIM	SIMILAR
SF	SQUARE FEET
SOV	SHUT OFF VALVE
SS	STAINLESS STEEL
TYP	TYPICAL
UFC	UNITED FACILITIES CRITERIA
UG	UNDER GROUND
V	VENT, VOLT
VFD	VARIABLE FREQUENCY DRIVE
W	WASTE, WATT
W/	WITH
WG	WATER GAUGE
WTCS	WATER TELEMETRY CONTROL SYSTEM

PIPING SYMBOLS

- BALL VALVE
- BUTTERFLY VALVE
- CHECK VALVE
- DIRECTION OF FLOW OF PIPE
- DRAIN
- DRAIN VALVE, W/ HOSE BIB AND CAP
- END CAP
- FLANGE CONNECTION
- GATE VALVE
- GLOBE VALVE
- MANUAL AIR VENT
- PIPE TEE FROM TOP
- PIPE TEE FROM BOTTOM
- PIPE BEND UP
- PIPE BEND DOWN
- PRESSURE GAUGE W/ BALL VALVE
- PUMP
- REDUCER ECCENTRIC (ECCENTRIC-FOB OR FOT)
- REDUCER CONCENTRIC
- STRAINER
- STRAINER W/BALL DRAIN VALVE, THREADED OUTLET AND CAP
- UNION OR FLANGE AS DICTATED BY PIPE SIZE
- SYMBOL PER ABBREVIATION LIST
- EQUIPMENT SEQUENCE NUMBER

PLUMBING LINE TYPE LEGEND

- ITEMS TO BE PROVIDED
- HIDDEN ITEMS
- CONTROL WIRING

APPLICABLE CODES AND STANDARDS

- UFC 3-420-01 PLUMBING SYSTEMS, APRIL1, 2021
- BUILDING CODE OF NEW YORK STATE, AS MODIFIED BY THE UFCs
- PLUMBING CODE OF NEW YORK STATE, AS MODIFIED BY THE UFCs

GENERAL NOTES:

1. GENERAL NOTES, SYMBOLS LIST AND DETAILS ARE APPLICABLE TO DRAWINGS MARKED P-#.
2. DRAWINGS ARE DIAGRAMMATIC; DETERMINE LOCATIONS OF SYSTEMS AND COMPONENTS IN FIELD.
3. COORDINATE WORK OF THIS DIVISION WITH THAT OF OTHER DIVISIONS.
4. COORDINATE WORK WITH TRADES INVOLVED. PROVIDE OFFSETS IN PIPING AND TRANSITIONS AROUND OBSTRUCTIONS AT NO ADDITIONAL COST TO THE OWNER.
5. VERIFY EQUIPMENT CONNECTIONS WITH MANUFACTURER'S CERTIFIED DRAWINGS. VERIFY AND PROVIDE PIPE TRANSITIONS TO FURNISHED EQUIPMENT. FIELD VERIFY AND COORDINATE DIMENSIONS BEFORE FABRICATION.
6. INSTALL EQUIPMENT AND PIPING AS REQUIRED TO MINIMIZE VIBRATION AND TO FACILITATE EQUIPMENT ACCESS AS REQUIRED BY EQUIPMENT MANUFACTURER.
7. CONTROL WIRE AND CONDUIT MUST COMPLY WITH DIVISION 26 ELECTRICAL SPECIFICATIONS.
8. PROVIDE VENTS AT HIGH POINTS IN PIPING SYSTEMS AND DRAIN VALVES AT LOW POINTS.

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DESIGNED BY: ATW
DRAWN BY: CSS
CHECKED BY: DHB
SUBMITTED BY: RLC
SIZE: ANSI D
ISSUE DATE: 06/09/2026
SOLICITATION NO.:
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DRAWING CODE:
SHEET 56 OF 66
SCALE: 1:1

U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
26 FEDERAL PLAZA
NEW YORK, NY 10278

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47A York St
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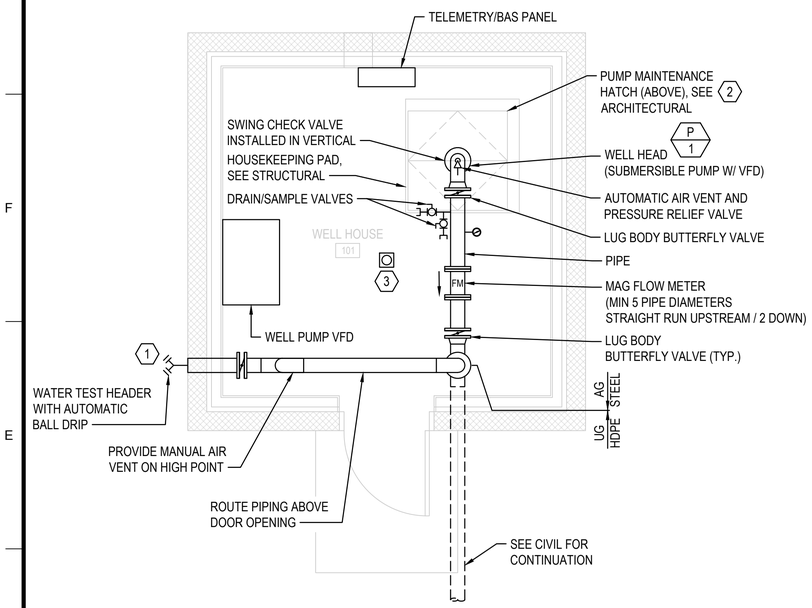
FORT DRUM - WELLS FIELD EXPANSION DB-RFP
FORT DRUM, NEW YORK

GENERAL NOTES, LEGEND AND ABBREVIATIONS

SHEET ID
P-001

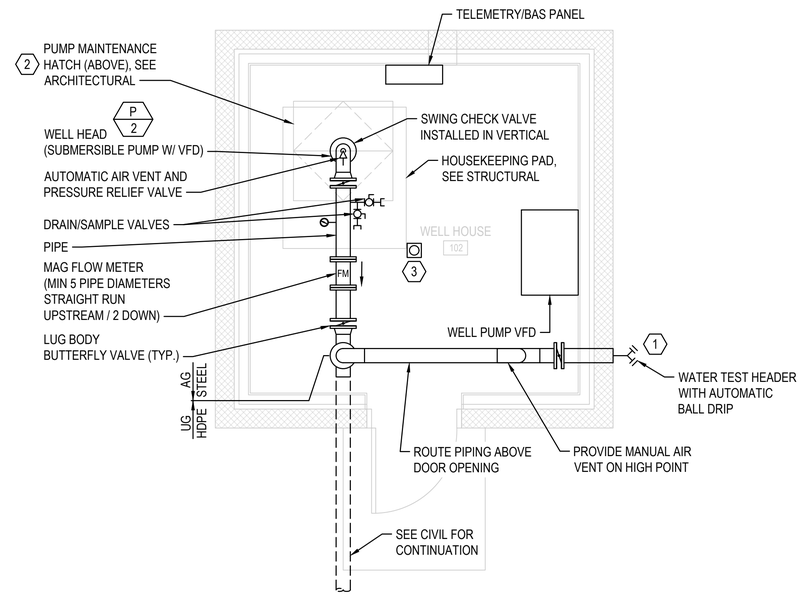
KEYED NOTES:

1. TEST HEADER MUST BE ACCESSIBLE FROM GRAVEL DRIVEWAY.
2. PUMP MAINTENANCE HATCH ABOVE, SEE ARCHITECTURAL. ENSURE HATCH OPENING IS CLEAR OF OBSTRUCTIONS, INCLUDING BUT NOT LIMITED TO EQUIPMENT, DUCTWORK, PIPING, CONDUIT AND CONTROLS WIRING.
3. FLOOR DRAIN, COORDINATE DISCHARGE OUT OF BUILDING WITH THE SITE CONTRACTOR AND DESIGN-BUILD CIVIL ENGINEER.



D1 WELL HOUSES 1 & 3R PLUMBING PLAN

SCALE: 3/8" = 1'-0"



D5 WELL HOUSES 2, 4R & 5 PLUMBING PLAN

SCALE: 3/8" = 1'-0"

0 2' 4' 6'
Scale: 3/8" = 1'-0"

US Army Corps of Engineers®

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DESIGNED BY: SMC
DRAWN BY: CEJ
CHECKED BY: DHB
SUBMITTED BY: RJC
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SHEET 57 OF 66

U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
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NEW YORK, NY 10278

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FORT DRUM - WELLS FIELD EXPANSION DB-RFP
FORT DRUM, NEW YORK

TYPICAL WELL HOUSE PLANS

SHEET ID
P-101

ABBREVIATIONS

A	AMP
ACS	ACCESS
AD	ACCESS DOOR
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AMP	AMPERES
APD	AIR PRESSURE DROP
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
BAS	BUILDING AUTOMATION SYSTEM
BHP	BRAKE HORSEPOWER
BTUH	BRITISH THERMAL UNITS PER HOUR
CFM	CUBIC FEET PER MINUTE
DB	DRY BULB
DBA	DECIBELS
DDC	DIRECT DIGITAL CONTROL
DEG, °	DEGREE
DIA, Ø	DIAMETER
DN	DOWN
EA	EACH, EXHAUST AIR
EF	EXHAUST FAN
F	FAN, FAHRENHEIT
FA	FREE AREA
FC	FLEX CONNECTOR
FLA	FULL LOAD AMPS
FT	FEET
GA	GAUGE
HP	HORSEPOWER
HR	HOUR
HZ	HERTZ
IN	INCHES
KW	KILOWATTS
LAT	LEAVING AIR TEMPERATURE
LB	POUND
MAX	MAXIMUM
MBH	1000 BTU PER HOUR
MIN	MINIMUM
MOP	MAXIMUM OVERCURRENT PROTECTION
NC	NOISE CRITERIA
NPT	NATIONAL PIPE THREAD
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OED	OPEN ENDED DUCT
PD	PRESSURE DROP
PH	PHASE
QTY	QUANTITY
RPM	REVOLUTIONS PER MINUTE
SA	SUPPLY AIR
SCADA	SUPERVISORY CONTROL AND DATA ACQUISITION
SP	STATIC PRESSURE
T	TEMPERATURE SENSOR, THERMOSTAT
TYP	TYPICAL
UFC	UNITED FACILITIES CRITERIA
UH	UNIT HEATER
V	VOLTS
VFD	VARIABLE FREQUENCY DRIVE
W	WATTS
W/	WITH
WB	WET-BULB
WC	WATER COLUMN
WG	WATER GAUGE
WTCS	WATER TELEMETRY CONTROL SYSTEM

DUCTWORK SYMBOLS

- RETURN/EXHAUST DUCT UP
- RETURN/EXHAUST DUCT DOWN
- SUPPLY DUCT UP
- SUPPLY DUCT DOWN
- RISE(R) OR DROP(D)
- RADIUS ELBOW
- SQUARE ELBOW W/ TURNING VANES
- OFFSET
- DUCT TRANSITION FROM RECTANGULAR TO ROUND

MECHANICAL SYMBOLS

- SYMBOL PER ABBREVIATION LIST
- EQUIPMENT SEQUENCE NUMBER
- UNIT HEATER
- DIRECTION OF AIRFLOW (OUT)
- DIRECTION OF AIRFLOW (IN)
- VOLUME DAMPER
- MOTORIZED DAMPER
- FAN
- THERMOSTAT
- TEMPERATURE SENSOR
- VARIABLE FREQUENCY DRIVE

MECHANICAL LINE TYPE LEGEND

- ITEMS TO BE PROVIDED
- HIDDEN ITEMS
- CONTROL WIRING

HVAC DESIGN DATA

OUTDOOR DESIGN TEMPERATURES	83.8°F DB SUMMER 69.7°F WB SUMMER -4.9° DB WINTER	DESIGN ALTITUDE: 550 FT
INDOOR AREA DESIGN CONDITIONS	SUMMER	WINTER
	85°F DB	55°F DB

APPLICABLE CODES AND STANDARDS

- UFC 3-410-01 HEATING, VENTILATING, AND AIR CONDITIONING SYSTEMS, WITH CHANGE 8, JULY 21, 2021
- BUILDING CODE OF NEW YORK STATE, AS MODIFIED BY THE UFCs
- MECHANICAL CODE OF NEW YORK STATE, AS MODIFIED BY THE UFCs
- NFPA 90A, STANDARD FOR THE INSTALLATION OF AIR CONDITIONING AND VENTILATING SYSTEMS
- SMACNA HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE, 2020

GENERAL NOTES

1. GENERAL NOTES, SYMBOLS LIST AND DETAILS ARE APPLICABLE TO DRAWINGS MARKED M-#
2. DRAWINGS ARE DIAGRAMMATIC; DETERMINE LOCATIONS OF SYSTEMS AND COMPONENTS IN FIELD.
3. COORDINATE WORK WITH TRADES INVOLVED. PROVIDE OFFSETS IN PIPING AND DUCTS (INCLUDING DIVIDED DUCTS) AND TRANSITIONS AROUND OBSTRUCTIONS AT NO ADDITIONAL COST TO THE OWNER.
4. VERIFY EQUIPMENT CONNECTIONS WITH MANUFACTURER'S CERTIFIED DRAWINGS. VERIFY AND PROVIDE DUCT TRANSITIONS TO FURNISHED EQUIPMENT. FIELD VERIFY AND COORDINATE DIMENSIONS BEFORE FABRICATION.
5. INSTALL EQUIPMENT, PIPING, AND DUCTWORK AS REQUIRED TO MINIMIZE VIBRATION AND TO FACILITATE EQUIPMENT ACCESS AS REQUIRED BY EQUIPMENT MANUFACTURER.
6. MANUALLY OPERABLE EQUIPMENT MUST BE ACCESSIBLE FOR OPERATION WITHOUT REQUIRING SPECIAL EQUIPMENT.
7. PROVIDE ADEQUATE CLEARANCE FOR ACCESS TO HARDWARE AND DUCT FLANGES.
8. CONTROL WIRE AND CONDUIT MUST COMPLY WITH DIVISION 26 ELECTRICAL SPECIFICATIONS.
9. INSTALL THERMOSTATS AND OTHER OCCUPANT CONTROLS WITH TOPS OF OPERABLE ELEMENTS 60 INCHES AFF.

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MARK	DESCRIPTION	DATE
C	FINAL DB-RFP	06/09/2026
B	PRE-FINAL DB-RFP	02/27/2026
A	DRAFT DB-RFP	01/13/2026

DESIGNED BY: ATW
DRAWN BY: CSS
CHECKED BY: DHB
SUBMITTED BY: RJC
SIZE: ANSI D
SCALE: 1:1
ISSUE DATE: 06/09/2026
SOLICITATION NO.:
CONTRACT NO.:
DRAWING CODE:
SHEET 58 OF 66

U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
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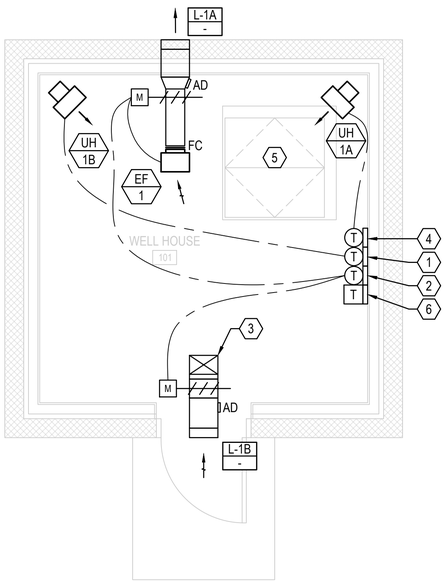
NEW YORK, NY 10278

47A York St
Portland, ME
04101
207.353.7753

FORT DRUM - WELLS FIELD EXPANSION DB-RFP
FORT DRUM, NEW YORK

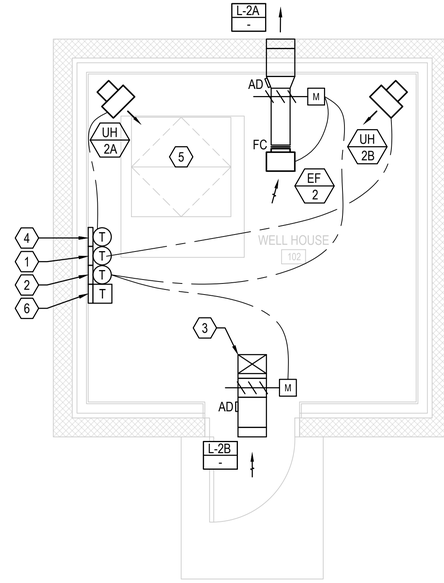
GENERAL NOTES, LEGEND AND ABBREVIATIONS

SHEET ID
M-001



D1 WELL HOUSES 1 & 3R MECHANICAL PLAN

SCALE: 3/8" = 1'-0"



D5 WELL HOUSES 2, 4R & 5 MECHANICAL PLAN

SCALE: 3/8" = 1'-0"

KEYED NOTES:

1. THERMOSTAT WITH INSULATED BASE FOR BACK-UP UNIT HEATER. SET AT 51°F (ADJ).
2. THERMOSTAT WITH INSULATED BASE. SET AT AT 85°F (ADJ) FOR SUMMER COOLING.
3. OPEN-ENDED ELBOW UP WITH WIRE MESH SCREEN.
4. THERMOSTAT WITH INSULATED BASE FOR UNIT HEATER. SET AT 55°F (ADJ) FOR WINTER FREEZE PROTECTION.
5. PUMP MAINTENANCE HATCH ABOVE, SEE ARCHITECTURAL. ENSURE HATCH OPENING IS CLEAR OF OBSTRUCTIONS, INCLUDING BUT NOT LIMITED TO FANS, HEATERS, DUCTWORK, PIPING, CONDUIT AND CONTROLS WIRING.
6. PROVIDE TEMPERATURE SENSOR TO MONITOR THE TEMPERATURE OF THE WELL HOUSE AT THE EXISTING WTCS. COMMUNICATION BETWEEN WTCS AND WELL HOUSE SENSOR MUST BE VIA THE SCADA SYSTEM, REFER TO ELECTRICAL FOR COMMUNICATION CABLING REQUIREMENTS.

0 2' 4' 6'
Scale: 3/8" = 1'-0"

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SHEET 59 OF 66

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FORT DRUM - WELLS FIELD EXPANSION DB-RFP
FORT DRUM, NEW YORK

TYPICAL WELL HOUSE PLANS

SHEET ID
M-101

ONE-LINE DIAGRAM:

- DISCONNECT, ISOLATION OR SAFETY SWITCH
- FUSED CUTOUT
- GROUND
- TRANSFER SWITCH (N, E, L, ATS)
  - ATS - AUTOMATIC
  - MTS - MANUAL
- GENERATOR
- POWER TRANSFORMER
  - CONNECTION (WYE/DELTA)
- METER (M)

LIGHTING:

- STRIP LIGHT FIXTURE (Ab)
  - ASSOCIATED CONTROL DEVICE
  - FIXTURE TYPE (SEE LIGHT FIXTURE SCHEDULE)
- FLOOD LIGHT
- WALLPACK
- SINGLE POLE TOGGLE SWITCH (S_a)
  - INDICATES CONTROLLED FIXTURE

POWER:

- GFCI DUPLEX RECEPTACLE (INTERIOR) SEE E-401
- GFCI DUPLEX RECEPTACLE, NEMA 5-20R (WP)
  - WEATHER PROOF, WITH WEATHER PROOF IN-USE COVER
- PANELBOARD, NORMAL POWER
- EGB — ELECTRICAL GROUNDING BAR
- SPD — SURGE PROTECTION DEVICE
- GENERATOR CONNECTION

GROUNDING:

- GROUND ROD
- EXOTHERMIC WELD CONNECTION
- BOLTED CONNECTION
- G — BARE COPPER CONDUCTOR RUN EXPOSED
- G — BARE COPPER CONDUCTOR EMBEDDED IN CONCRETE OR BURIED

COMMUNICATIONS:

- TELEPHONE SYSTEM WALL JACK
- DATA SYSTEM OUTLET
- COMBINATION VOICE/DATA SYSTEM OUTLET

LINE TYPES:

- EXISTING
- NEW
- MATCHLINE
- UNDERGROUND FIBER
- UGC — UNDERGROUND COMMUNICATION
- UE — UNDERGROUND ELECTRICAL
- OHE — OVERHEAD ELECTRICAL

ABBREVIATIONS:

AC	ALTERNATING CURRENT
AMP	AMPERE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
AIC	AMPERE INTERRUPTING CAPACITY
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BFG	BELOW FINISHED GRADE
BLDG	BUILDING
BOS	BOTTOM OF STEEL
C	CONDUIT
CB	CIRCUIT BREAKER
CLG	CEILING
CT	CURRENT TRANSFORMER
CU	COPPER
DDC	DIRECT DIGITAL CONTROL
DISC	DISCONNECT
DN	DOWN
EMT	ELECTRICAL METALLIC TUBING
EPR	ETHYLENE PROPYLENE RUBBER
EQP	EQUIPMENT
EXIST	EXISTING
FBO	FURNISHED BY OTHERS
FLR	FLOOR
FBO	FIBER OPTIC CABLE
FWE	FURNISHED WITH EQUIPMENT
FU	FUSE
G	GROUND
GEN	GENERATOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
HP	HORSEPOWER
HTR	HEATER
IMC	INTERMEDIATE METAL CONDUIT
K	KILO
KCMIL	THOUSAND CIRCULAR MILS
KV	KILOVOLT
KVA	KILOVOLT-AMPERE
KW	KILOWATT
KWH	KILOWATT-HOUR
LTG	LIGHTING
MCB	MAIN CIRCUIT BREAKER
MFR	MANUFACTURER
MLO	MAIN LUG ONLY
MOV	METAL OXIDE VARISTOR
MTD	MOUNTED
MTS	MANUAL TRANSFER SWITCH
MV	MEDIUM VOLTAGE
NEC	NATIONAL ELECTRICAL CODE
NEG	NEGATIVE
NEUT	NEUTRAL
NTS	NOT TO SCALE
OH	OVERHEAD
P	POLE
PF	POWER FACTOR
PH	PHASE
PVC	POLYVINYL CHLORIDE
RGS	RIGID GALVANIZED STEEL CONDUIT
RECEPT	RECEPTACLE
RM	ROOM
RSC	RIGID STEEL CONDUIT
SCADA	SUPERVISORY CONTROL AND DATA ACQUISITION
SM	SINGLE MODE
SPD	SURGE PROTECTIVE DEVICE
STP	SHIELDED TWISTED PAIR
STT	SHIELDED TWISTED TRIPLET
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
V	VOLT
VA	VOLT-AMPERE
WM	WATT METER
WP	WEATHER PROOF
WTCS	WATER TELEMETRY CONTROL SYSTEM
XFMR	TRANSFORMER

GENERAL NOTES:

1. GENERAL NOTES, SYMBOL LISTS AND DETAILS ARE TO BE CONSIDERED AS APPLICABLE TO ELECTRICAL DRAWINGS FOR THIS PROJECT. SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET ARE FOR REFERENCE ONLY AND DO NOT INDICATE THEIR INCORPORATION IN THE DESIGN.
2. DRAWINGS ARE SCHEMATIC AND DIAGRAMMATIC. USE JUDGMENT AND CARE TO INSTALL ELECTRICAL WORK TO FUNCTION PROPERLY AND FIT WITHIN BUILDING CONSTRUCTION AND FINISHES. ELECTRICAL CONDUCTORS, CONDUIT, COMPONENTS, NOT SHOWN OR SPECIFIED, WHICH ARE REQUIRED FOR ANY DEVICE OR SYSTEM TO PRODUCE A COMPLETE AND OPERATIVE SYSTEM ARE REQUIRED TO BE FURNISHED AND INSTALLED.
3. PERFORM WORK IN ACCORDANCE WITH NFPA-70, NATIONAL ELECTRICAL CODE (NEC) 2026.
4. VERIFY THAT FIELD MEASUREMENTS, SURFACES, SUBSTRATES AND CONDITIONS ARE AS REQUIRED, AND READY TO RECEIVE WORK. DO NOT PROCEED WITH WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED. BY BEGINNING WORK, CONTRACTOR ACCEPTS CONDITIONS AND ASSUMES RESPONSIBILITY FOR CORRECTING UNSUITABLE CONDITIONS ENCOUNTERED AT NO ADDITIONAL COST.
5. PANEL SCHEDULE INFORMATION FOR EXISTING PANELS IS BASED ON AVAILABLE INFORMATION DURING DESIGN. VERIFY THAT PANEL SCHEDULES ARE ACCURATE AND NOTIFY CONTRACTING OFFICER OF ANY DISCREPANCY PRIOR TO COMMENCING WORK.
6. REMOVE ELECTRICAL EQUIPMENT WHERE INDICATED. REMOVE CONDUIT, CIRCUIT CONDUCTORS, SWITCHES, LIGHTING FIXTURES AND MISCELLANEOUS APPLIANCES BACK TO ENERGIZING SOURCE OR JUNCTION BOX WHERE MULTIPLE EQUIPMENT IS POWERED.
7. CONDUCTOR MATERIAL, INCLUDING WIRING, PANELBOARD BUSES, TRANSFORMER WINDINGS, AND GROUNDING MUST BE COPPER. ALUMINUM CONDUCTORS ARE NOT ALLOWED.
8. UNLESS OTHERWISE NOTED, FOR 20A-1P BRANCH CIRCUIT WIRING USE 2#12 AWG CONDUCTORS AND #12 GND. HOME RUNS FED FROM 20A-1P CIRCUITS IN EXCESS OF 100 FEET USE #10 AWG.
9. PROVIDE COMMERCIAL SPECIFICATION GRADE 277/120 VOLT LIGHTING TOGGLE SWITCHES, SIDE WIRED AND WITH GROUNDING SCREW. COORDINATE COLOR WITH CONTRACTING OFFICER.
10. PROVIDE COMMERCIAL SPECIFICATION GRADE CONVENIENCE RECEPTACLES, GROUNDING TYPE NEMA 5-20R, SIDE WIRED. EXTERIOR RECEPTACLES MUST BE EXTRA HEAVY DUTY TYPE WITH WEATHERPROOF WHILE IN USE COVER.
11. PROVIDE GALVANIZED STEEL WALL PLATES FOR MECHANICAL SPACES WIRING DEVICES, NYLON SMOOTH WALL PLATES FOR FINISHED PARTITIONED SPACES WIRING DEVICES, AND THERMOPLASTIC WALL PLATES FOR EXTERIOR WIRING DEVICES.
12. UNLESS OTHERWISE NOTED, PROVIDE TYPE RGS CONDUIT, LIQUID TIGHT FLEXIBLE METAL CONDUIT FOR FINAL CONNECTIONS TO MOTORS, AND FLEXIBLE METAL CONDUIT FOR CONNECTIONS TO LIGHT FIXTURES (MAXIMUM 6 FT LENGTH).
13. PROVIDED EQUIPMENT DISCONNECTS AND MANUAL MOTOR STARTERS UNLESS NOTED AS FURNISHED WITH EQUIPMENT (FWE). INCLUDE FUSES RATED FOR PROTECTION OF LOAD SUPPLIED. MOUNT DISCONNECTS AND MOTOR STARTERS IN AN ACCESSIBLE LOCATION WITHIN SIGHT OF THE LOAD SERVED. DISCONNECTS AND MOTOR STARTERS MUST BE LOCKABLE IN THE OPEN POSITION.
14. UNLESS OTHERWISE NOTED MOUNT CONVENIENCE RECEPTACLES 36" AFF, LIGHTING TOGGLE SWITCHES 48" AFF, AND TEL/DATA SYSTEM OUTLETS 36" AFF. MEASUREMENTS ARE MADE TO TOP OF DEVICE.
15. SEAL PENETRATIONS THROUGH FLOORS, RATED WALLS AND PARTITIONS WITH UL APPROVED FIRE SEALANT MATERIAL TO MAINTAIN THE RATING OF SEPARATION.
16. EQUIPMENT CONNECTIONS ARE SHOWN FOR BASIS-OF-DESIGN PRODUCTS. COORDINATE EQUIPMENT CONNECTIONS - INCLUDING DISCONNECTING MEANS, OVERCURRENT PROTECTION, AND WIRE SIZING - WITH SELECTED MANUFACTURER'S RECOMMENDED INSTRUCTIONS.
17. PROVIDE MOUNTING HARDWARE NECESSARY FOR A COMPLETE INSTALLATION. MOUNT EQUIPMENT AND ROUTE CONDUIT SO AS NOT TO INTERFERE WITH OPERATIONS SUCH AS OVERHEAD DOORS, DOOR SWINGS, ACCESS POINTS, AND OTHER INSTALLATIONS.
18. PERFORM COMMUNICATIONS WORK IN ACCORDANCE WITH APPLICABLE TELECOMMUNICATIONS INDUSTRY ASSOCIATION AND ELECTRONICS INDUSTRIES ALLIANCE (TIA/EIA) STANDARDS. FOLLOW SELECTED MANUFACTURERS' RECOMMENDED INSTALLATION AND CONNECTION PROCEDURES. COORDINATE TELEPHONE AND DATA INSTALLATIONS WITH OWNER'S CONTRACTING OFFICER.

GENERAL NOTES CONTINUED:

19. INSTALL AND TEST TELECOMMUNICATIONS CABLING ACCORDING TO TIA/EIA STANDARDS. PROVIDE TYPE CATEGORY 6A CABLES.
20. UNLESS OTHERWISE NOTED WIRING MUST BE AS FOLLOWS:
    A. LOW VOLTAGE INTERIOR DISTRIBUTION AND BRANCH WIRING MUST BE 600V, COPPER WITH THHN/THWN INSULATION
    B. LOW VOLTAGE EXTERIOR DISTRIBUTION AND BRANCH WIRING MUST BE 600V, COPPER WITH XHHW INSULATION.
    C. MEDIUM VOLTAGE WIRING MUST BE MV-105, SHIELDED, EPR INSULATION, 15KV CLASS.
21. EQUIPMENT ENCLOSURES, SWITCHES, RECEPTACLES, AND DEVICES MUST BE LABELED WITH THE SOURCE CIRCUIT AND EQUIPMENT CONTROLLED WHERE APPLICABLE. PANELBOARDS AND SWITCHBOARDS MUST HAVE APPROPRIATE ARC-FLASH LABELS INSTALLED IN ACCORDANCE WITH NFPA 70E REQUIREMENTS.

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SHEET 60 OF 66

DESIGNED BY: JTW
DRAWN BY: ACY
CHECKED BY: JMB
SUBMITTED BY:
SUBMITTED
SIZE: ANSI D
SCALE: 1:1

U.S. ARMY CORPS OF ENGINEERS
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NEW YORK, NY 10278

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04101
207.553.7753

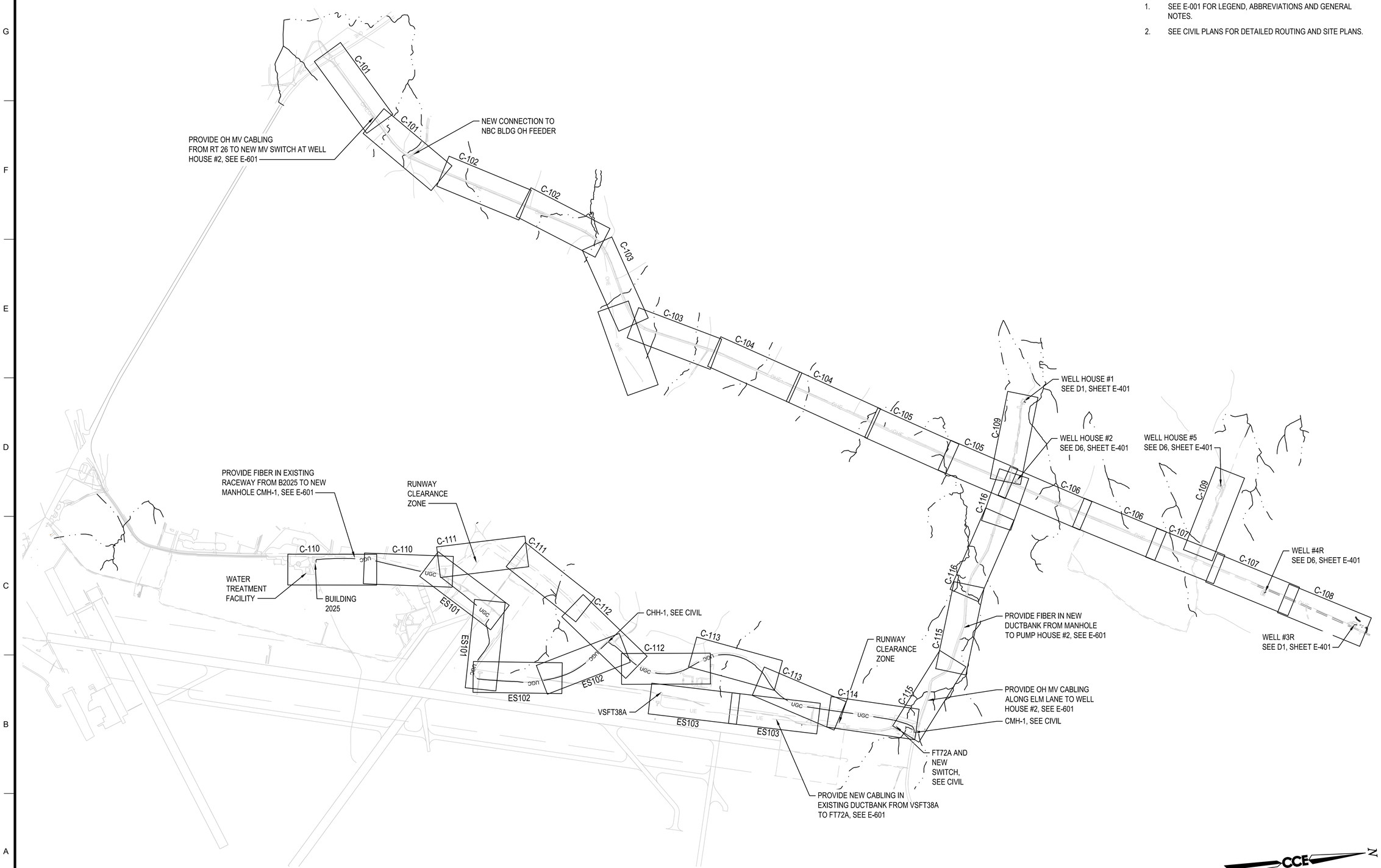
FORT DRUM - WELLS FIELD EXPANSION DB-RFP
FORT DRUM, NEW YORK

ELECTRICAL LEGEND, ABBREVIATIONS AND GENERAL NOTES

SHEET ID
E-001

NOTES:

1. SEE E-001 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.
2. SEE CIVIL PLANS FOR DETAILED ROUTING AND SITE PLANS.



OVERALL ELECTRICAL SITE PLAN

SCALE:1" = 750'

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DESIGNED BY: JTW
DRAWN BY: ACY
CHECKED BY: JMB
SUBMITTED BY: RLC
SIZE: ANSI D
SCALE: 1:1

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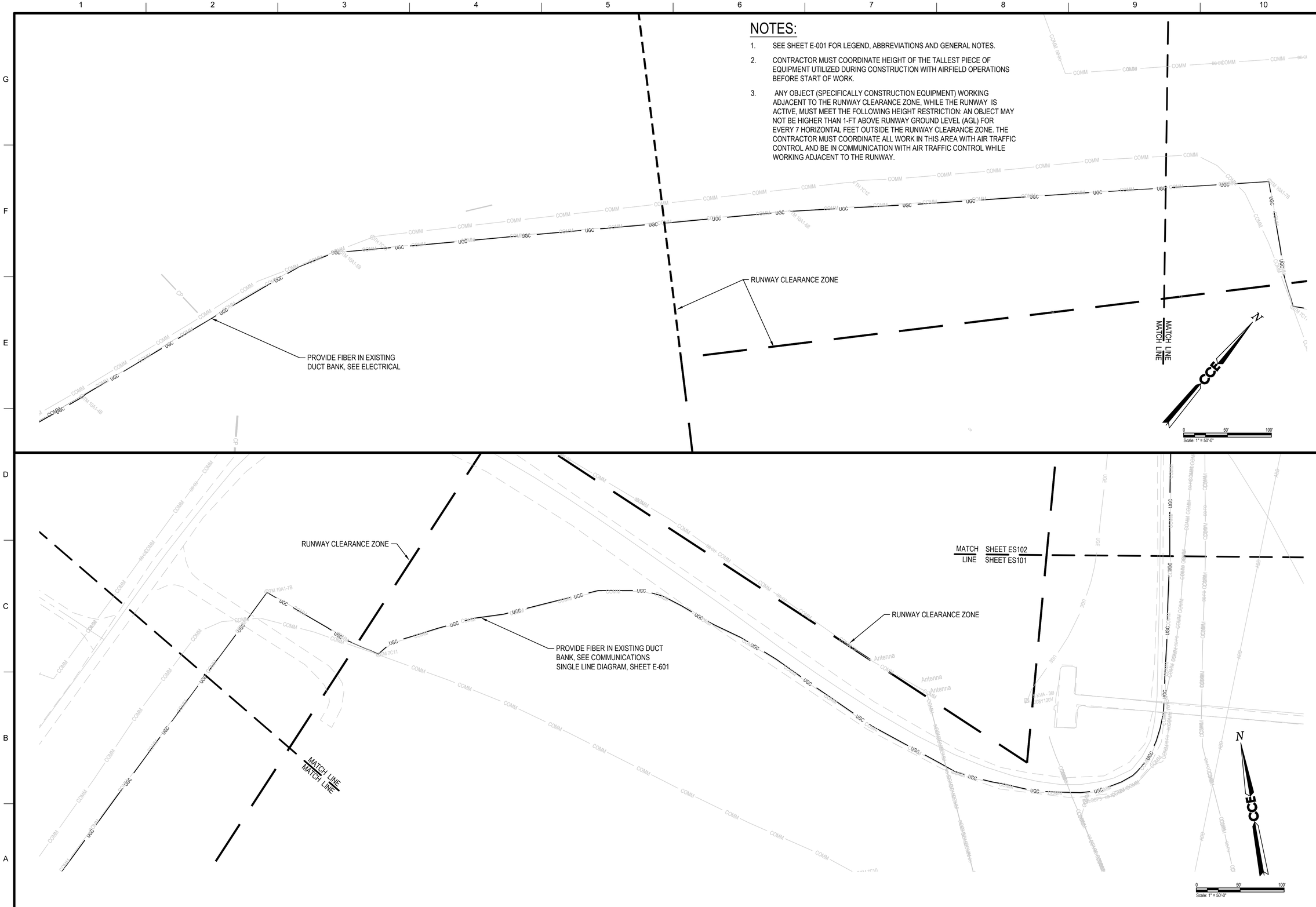
FORT DRUM - WELLS FIELD EXPANSION DB-RFP
FORT DRUM, NEW YORK

OVERALL ELECTRICAL SITE PLAN

SHEET ID
ES001

NOTES:

1. SEE SHEET E-001 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.
2. CONTRACTOR MUST COORDINATE HEIGHT OF THE TALLEST PIECE OF EQUIPMENT UTILIZED DURING CONSTRUCTION WITH AIRFIELD OPERATIONS BEFORE START OF WORK.
3. ANY OBJECT (SPECIFICALLY CONSTRUCTION EQUIPMENT) WORKING ADJACENT TO THE RUNWAY CLEARANCE ZONE, WHILE THE RUNWAY IS ACTIVE, MUST MEET THE FOLLOWING HEIGHT RESTRICTION: AN OBJECT MAY NOT BE HIGHER THAN 1-FT ABOVE RUNWAY GROUND LEVEL (AGL) FOR EVERY 7 HORIZONTAL FEET OUTSIDE THE RUNWAY CLEARANCE ZONE. THE CONTRACTOR MUST COORDINATE ALL WORK IN THIS AREA WITH AIR TRAFFIC CONTROL AND BE IN COMMUNICATION WITH AIR TRAFFIC CONTROL WHILE WORKING ADJACENT TO THE RUNWAY.



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SUBMITTED BY: RLC
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FORT DRUM - WELLS FIELD EXPANSION DB-RFP
FORT DRUM, NEW YORK

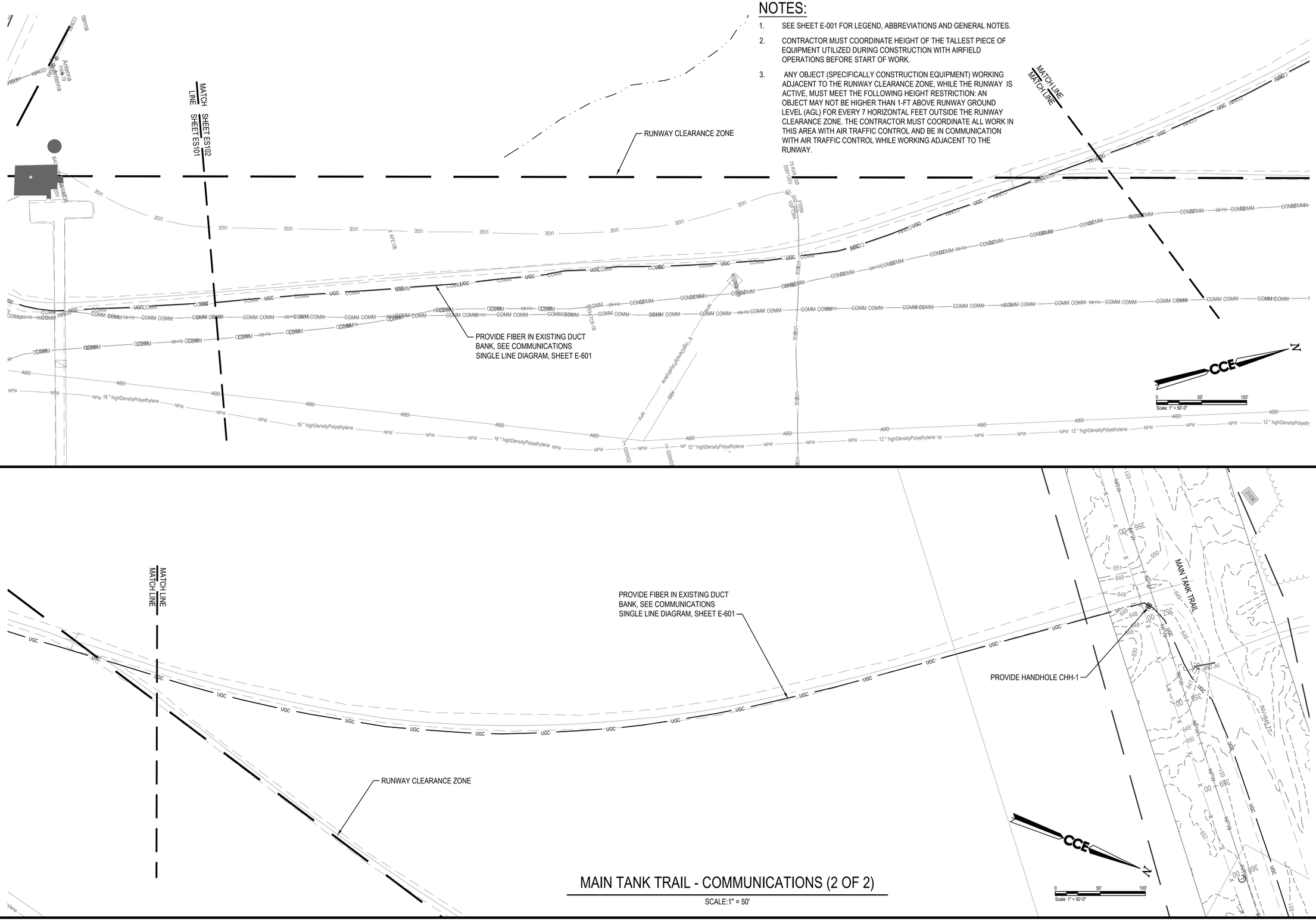
MAIN TANK TRAIL - COMMUNICATIONS (1OF2)

SHEET ID

ES101

NOTES:

1. SEE SHEET E-001 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.
2. CONTRACTOR MUST COORDINATE HEIGHT OF THE TALLEST PIECE OF EQUIPMENT UTILIZED DURING CONSTRUCTION WITH AIRFIELD OPERATIONS BEFORE START OF WORK.
3. ANY OBJECT (SPECIFICALLY CONSTRUCTION EQUIPMENT) WORKING ADJACENT TO THE RUNWAY CLEARANCE ZONE, WHILE THE RUNWAY IS ACTIVE, MUST MEET THE FOLLOWING HEIGHT RESTRICTION: AN OBJECT MAY NOT BE HIGHER THAN 1-FT ABOVE RUNWAY GROUND LEVEL (AGL) FOR EVERY 7 HORIZONTAL FEET OUTSIDE THE RUNWAY CLEARANCE ZONE. THE CONTRACTOR MUST COORDINATE ALL WORK IN THIS AREA WITH AIR TRAFFIC CONTROL AND BE IN COMMUNICATION WITH AIR TRAFFIC CONTROL WHILE WORKING ADJACENT TO THE RUNWAY.



MAIN TANK TRAIL - COMMUNICATIONS (2 OF 2)

SCALE:1" = 50'

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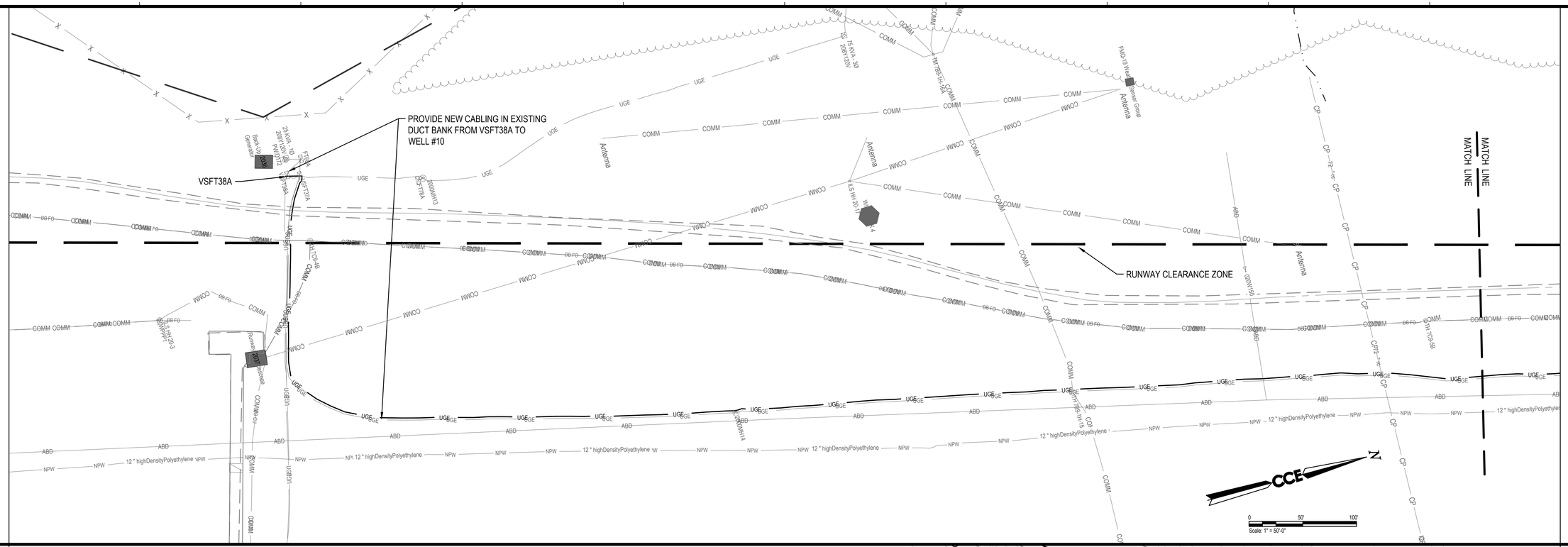
MAIN TANK TRAIL - COMMUNICATIONS (2 OF 2)

SHEET ID
ES102



NOTES:

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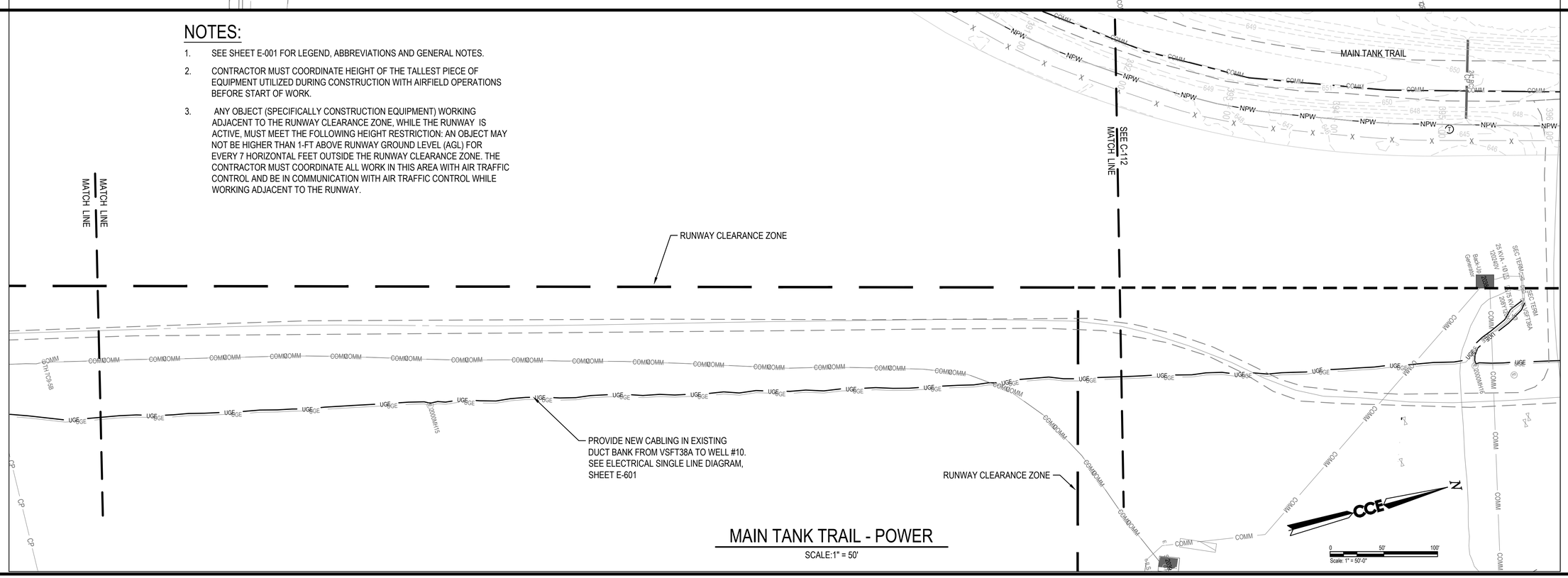

MAIN TANK TRAIL - POWER

SCALE:1" = 50'

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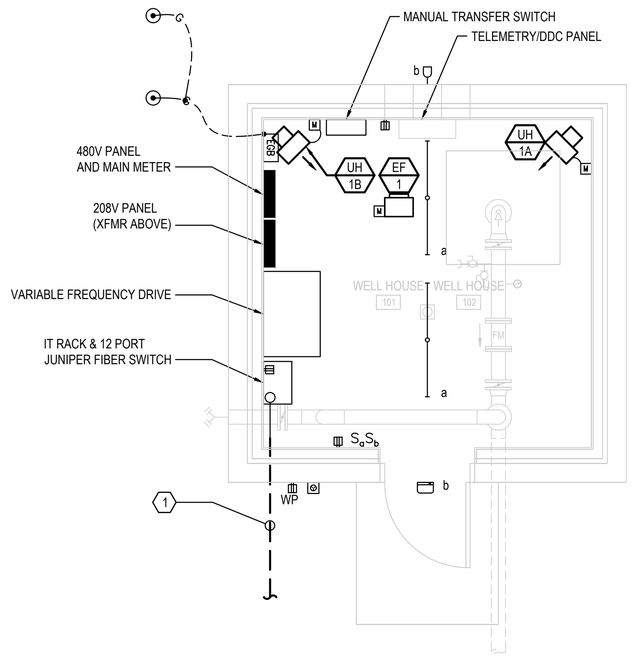
MAIN TANK TRAIL - POWER

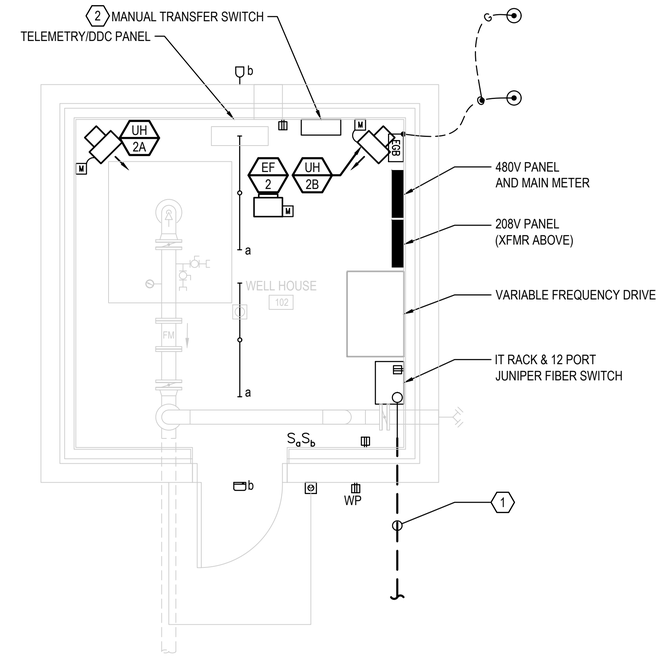
SHEET ID

ES103



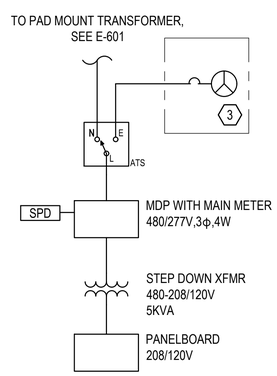
D1 WELL HOUSE #1 AND #3R PLAN

SCALE 3/8" = 1'-0"

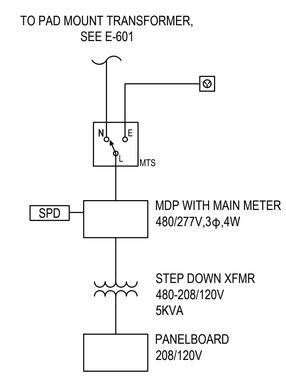


D6 WELL HOUSE #2, 4R & 5 PLAN

SCALE 3/8" = 1'-0"



WELL HOUSE 2 ONE LINE DIAGRAM



WELL HOUSE 1, 3R, 4R, 5 ONE LINE DIAGRAM

NOTES:

1. SEE E-001 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.
2. WELL PUMP HOUSES MUST HAVE CONNECTIONS FOR EMERGENCY BACK-UP GENERATOR IN CASE OF POWER FAILURE.

KEYED NOTES:

1. UNDERGROUND COMMUNICATIONS ENTRANCE. WILL VARY PER WELL HOUSE. COORDINATE WITH CIVIL PLANS.
2. PROVIDE AUTOMATIC TRANSFER SWITCH IN WELL HOUSE 2 ONLY.
3. PROVIDE CIRCUITS FOR BATTERY CHARGER AND ENGINE HEATER.

Scale: 3/8" = 1'-0"

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MARK	DESCRIPTION	DATE
C	FINAL DB-RFP	06/09/2026
B	PRE-FINAL DB-RFP	02/27/2026
A	DRAFT DB-RFP	01/13/2026

ISSUE DATE: 06/09/2026
SOLICITATION NO.:
CONTRACT NO.:
DRAWING CODE:
SHEET 65 OF 66

DESIGNED BY: JTW
DRAWN BY: ACY
CHECKED BY: JMB
SUBMITTED BY:
SIZE: ANSI D
SCALE: AS SHOWN

U.S. ARMY CORPS OF ENGINEERS
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26 FEDERAL PLAZA
NEW YORK, NY 10278

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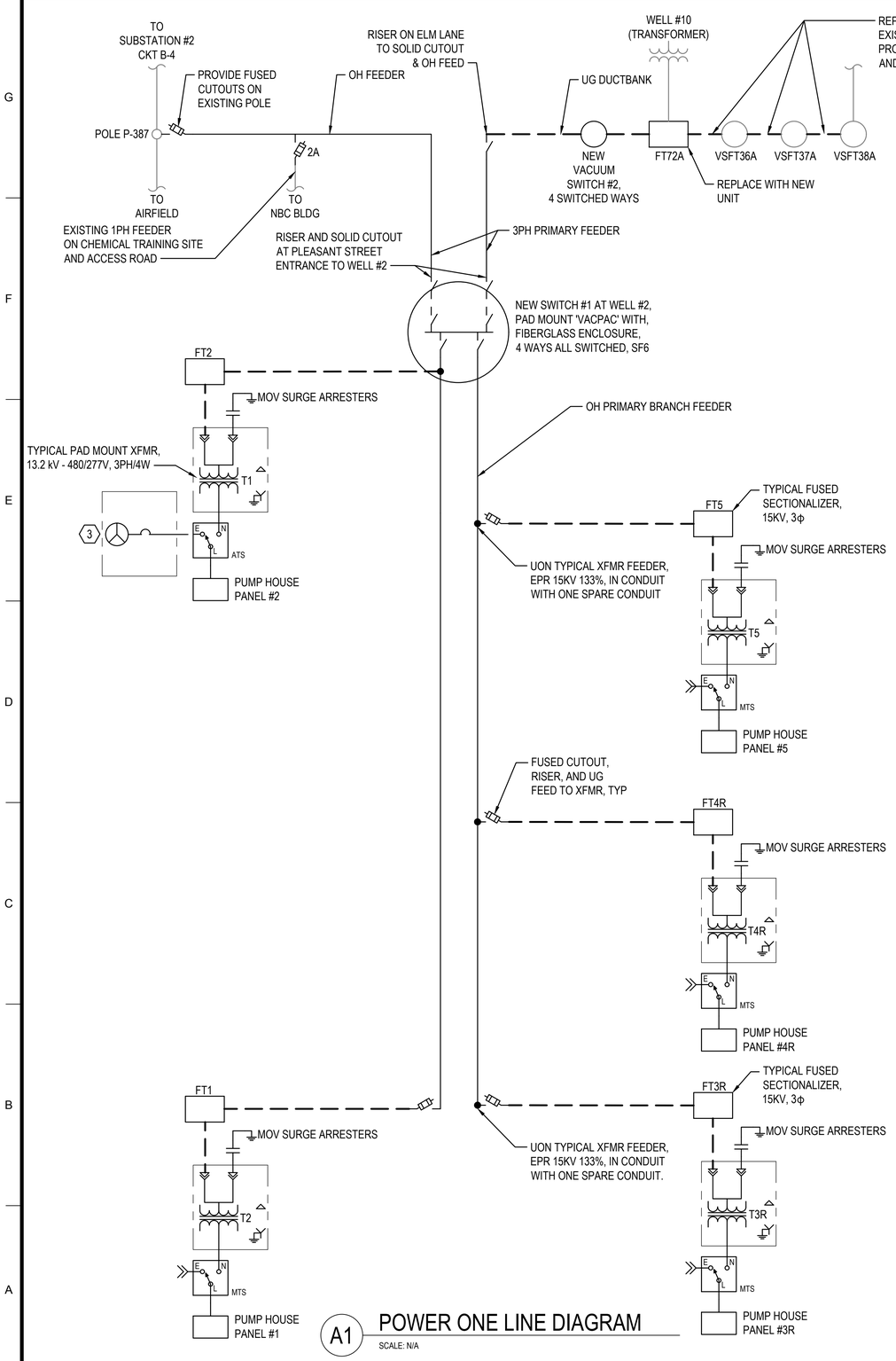
474 York St
Portland, ME
04101
207.953.7753

FORT DRUM - WELLS FIELD EXPANSION DB-RFP
FORT DRUM, NEW YORK

TYPICAL WELL HOUSE AND FIXTURE SCHEDULE

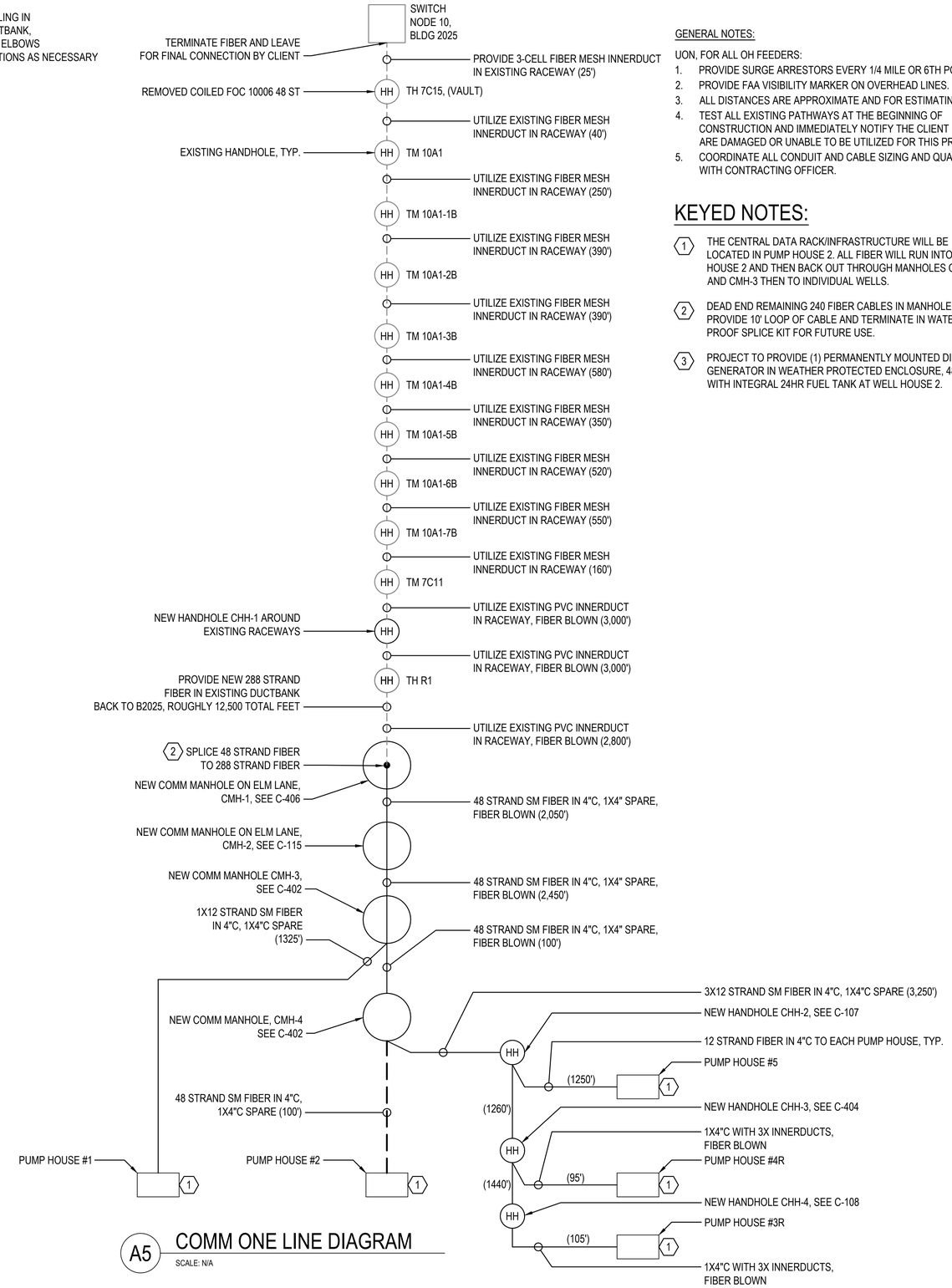
SHEET ID

E-401



A1 POWER ONE LINE DIAGRAM

SCALE: N/A



A5 COMM ONE LINE DIAGRAM

SCALE: N/A

GENERAL NOTES:

UON, FOR ALL OH FEEDERS:

1. PROVIDE SURGE ARRESTORS EVERY 1/4 MILE OR 6TH POLE.
2. PROVIDE FAA VISIBILITY MARKER ON OVERHEAD LINES.
3. ALL DISTANCES ARE APPROXIMATE AND FOR ESTIMATING ONLY.
4. TEST ALL EXISTING PATHWAYS AT THE BEGINNING OF CONSTRUCTION AND IMMEDIATELY NOTIFY THE CLIENT IF ANY ARE DAMAGED OR UNABLE TO BE UTILIZED FOR THIS PROJECT.
5. COORDINATE ALL CONDUIT AND CABLE SIZING AND QUANTITIES WITH CONTRACTING OFFICER.

KEYED NOTES:

1. THE CENTRAL DATA RACK/INFRASTRUCTURE WILL BE LOCATED IN PUMP HOUSE 2. ALL FIBER WILL RUN INTO PUMP HOUSE 2 AND THEN BACK OUT THROUGH MANHOLES CMH-4 AND CMH-3 THEN TO INDIVIDUAL WELLS.
2. DEAD END REMAINING 240 FIBER CABLES IN MANHOLE CMH-1. PROVIDE 10' LOOP OF CABLE AND TERMINATE IN WATER PROOF SPLICE KIT FOR FUTURE USE.
3. PROJECT TO PROVIDE (1) PERMANENTLY MOUNTED DIESEL GENERATOR IN WEATHER PROTECTED ENCLOSURE, 480V/3PH, WITH INTEGRAL 24HR FUEL TANK AT WELL HOUSE 2.

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FORT DRUM - WELLS FIELD EXPANSION DB-RFP
FORT DRUM, NEW YORK

SINGLE LINE DIAGRAMS

SHEET ID

E-601