

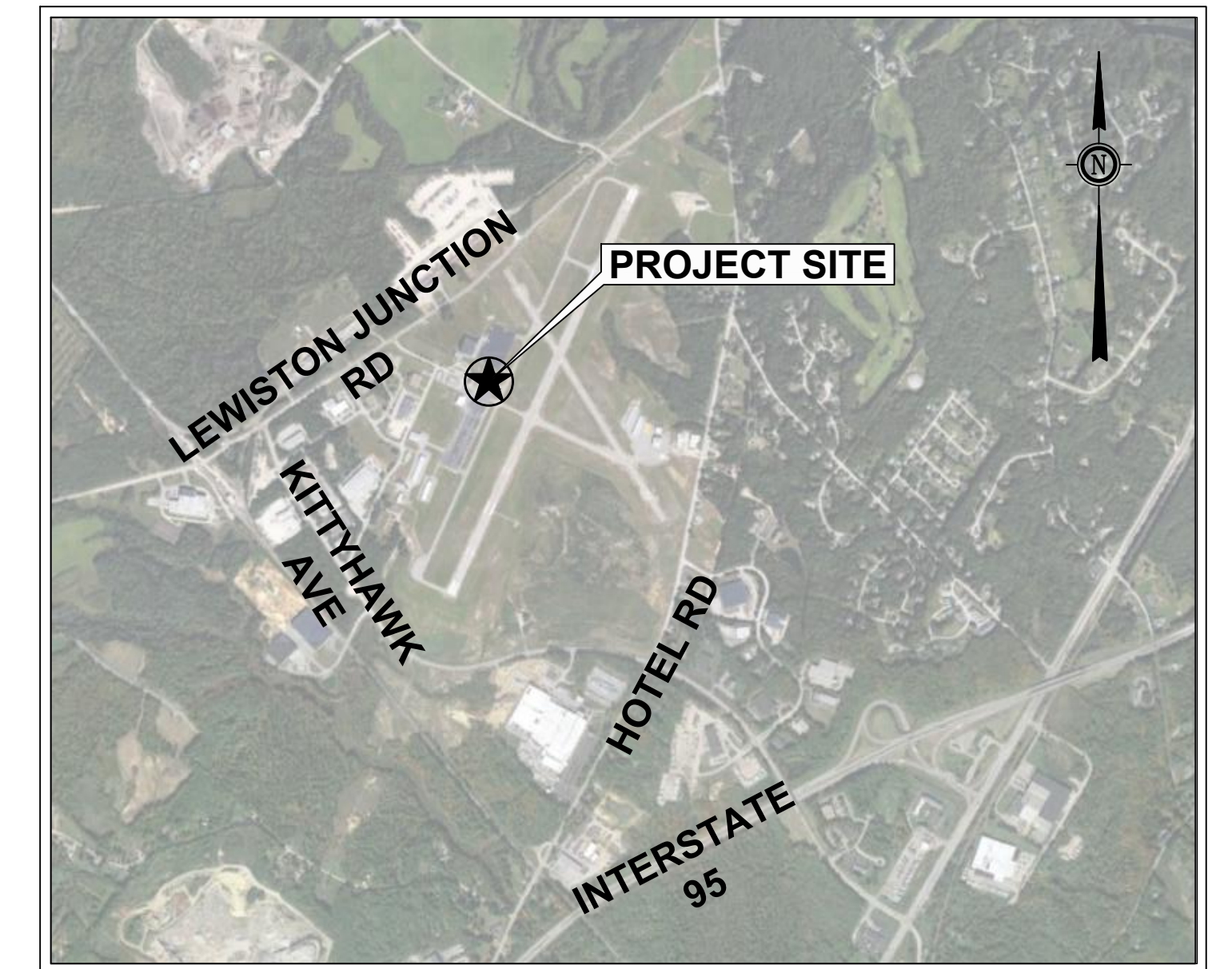
LOCATION MAP  
SCALE: 1" = 40 MILES

# CITY OF AUBURN, MAINE AUBURN-LEWISTON AIRPORT

## RELOCATE FUEL TANK AND INSTALL SELF-SERVICE EQUIPMENT

BID NUMBER: LA 2024-001

JULY 2023



LOCUS MAP  
NOT TO SCALE

INDEX TO DRAWINGS	
DWG NO.	TITLE
1	G1.1 TITLE SHEET
2	G1.2 GENERAL PLAN
3	S1.1 SAFETY AND PHASING PLAN AND DETAILS
4	S2.1 SAFETY AND PHASING NOTES
5	C1.1 SITE PLAN
6	C2.1 CONSTRUCTION DETAILS

CITY OF AUBURN, MAINE  
AUBURN-LEWISTON AIRPORT

APPROVED \_\_\_\_\_  
MR. JONATHAN LABONTE - CHAIRMAN, BOARD OF DIRECTORS

DATE \_\_\_\_\_

APPROVED \_\_\_\_\_  
TBD, AIRPORT MANAGER

DATE \_\_\_\_\_

### ENGINEER'S STATEMENT REGARDING COMPLIANCE

THESE PLANS AND SPECIFICATIONS HAVE BEEN PREPARED TO THE BEST OF MY KNOWLEDGE AND BELIEF, IN ACCORDANCE WITH THE LIST OF CURRENT FAA ADVISORY CIRCULARS FOR AIP PROJECTS PROVIDED BY THE FAA IN A LETTER DATED NOVEMBER 17, 2022. KNOWN DEVIATIONS FROM FAA STANDARDS WERE APPROVED BY FAA IN LETTERS DATED NONE AND ARE DISCUSSED IN THE PROJECT ENGINEERING REPORT AND/OR OTHER OFFICIAL PROJECT DOCUMENTS.

BY \_\_\_\_\_ ADAM W. CUTLER, PE  
GALE ASSOCIATES, INC.

DATE \_\_\_\_\_

### MAJOR ITEM QUANTITIES

ITEM	DESCRIPTION	QUANTITY
N/A	N/A	N/A

### PREPARED BY



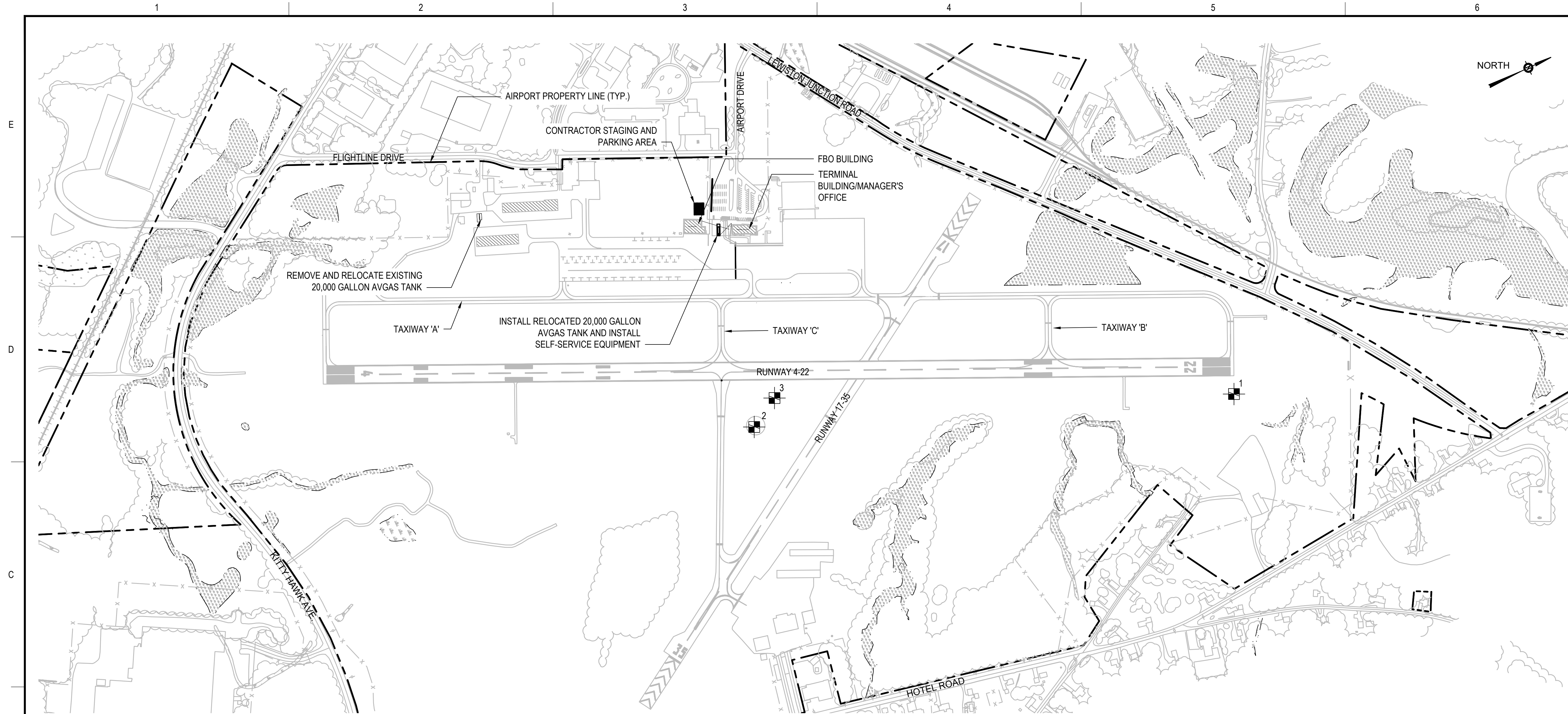
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BID SET

DRAWING NO.

G1.1

SHEET 1 OF 6



**GENERAL PLAN**  
SCALE: 1"=300'

**LEGEND**

- AIRPORT PROPERTY LINE
- TREE LINE
- EXISTING FENCE
- EXISTING EDGE OF PAVEMENT
- EXISTING WETLAND
- SURVEY MONUMENT

**GENERAL PLAN NOTES:**

1. FOR SAFETY AND PHASING INFORMATION INCLUDING INFORMATION ABOUT CONTRACTOR STAGING AREAS, HAUL ROUTES AND SCOPE OF WORK, SEE DWG. NO. S1.1.
2. FOR SITE PLAN SEE DWG. NO. C1.1.

**SURVEY CONTROL NOTES:**

1. SURVEY CONTROL POINTS HAVE BEEN PROVIDED TO ASSIST THE CONTRACTOR IN ESTABLISHING HORIZONTAL AND VERTICAL CONTROL FOR THE LAYOUT OF WORK ON THIS PROJECT.
2. THE CONTRACTOR SHALL VERIFY AND MAINTAIN ALL SURVEY CONTROL POINTS DURING CONSTRUCTION. ALL WORK TO ENSURE SURVEY POINTS ARE MAINTAINED SHALL BE CONSIDERED INCIDENTAL TO THE OVERALL PROJECT.
3. PRIOR TO THE START OF CONSTRUCTION THE CONTRACTOR SHALL LOCATE AND CONFIRM THE DISTANCES AND ELEVATIONS OF THE CONTROL POINTS SHOWN IN THE SURVEY CONTROL TABLE. ANY DISCREPANCIES BETWEEN THE LISTED DATA AND THE CONTRACTORS MEASUREMENTS SHALL BE BROUGHT TO THE OWNER'S ATTENTION PRIOR TO THE START OF CONSTRUCTION.
4. IF ANY CONTROL POINTS ARE DISTURBED BY THE CONTRACTOR OR THEIR AGENTS THEY MUST BE REPAIRED PRIOR TO FINAL PAYMENT. POINTS SHALL BE INSTALLED TO THE SATISFACTION OF THE OWNER AND SHALL MEET ALL APPLICABLE NOAA STANDARDS FOR SURVEY CONTROL POINTS.
5. ELEVATIONS SHOWN ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

**SURVEY CONTROL TABLE**

POINT NO.	POINT DESCRIPTION	LATITUDE	LONGITUDE	ELEVATION
1	LEW AP STA B (SACS)	44° 03' 16.42" N	70° 16' 46.87" W	259.78'
2	LEW D (PACS)	44° 02' 52.08" N	70° 16' 59.84" W	270.2'
3	ARP RESET	44° 02' 53.72" N	70° 17' 01.14" W	269.2'

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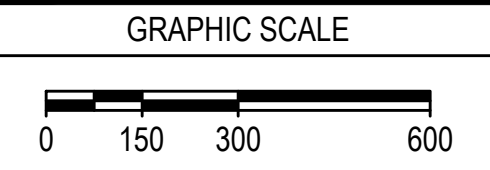
**BID SET**

PROJECT  
**RELOCATE FUEL TANK AND INSTALL SELF-SERVICE EQUIPMENT**

BID NUMBER: LA 2024-001

OWNER  
AUBURN-LEWISTON AIRPORT  
CITY OF AUBURN, MAINE

NO.	DATE	DESCRIPTION	BY
PROJECT NO.	777130		
CADD FILE	777130 - 02 - G12		
DESIGNED BY	AWC		
DRAWN BY	AWC		
CHECKED BY	NAI		
DATE	JULY 2023		
DRAWING SCALE	1" = 300'		



SHEET TITLE

GENERAL PLAN

DRAWING NO.

**G1.2**

**WORK AREA NOTES:**

1. ALL WORK BY THE CONTRACTOR SHALL BE DONE IN ACCORDANCE WITH THE MOST RECENT FAA ADVISORY CIRCULAR 150/5370-2G "OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION".
2. LIGHTED BARRICADES WILL BE USED TO DESIGNATE ALL AREAS OF PAVEMENT WHICH ARE TO BE CLOSED DURING CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL PROVIDE ALL BARRICADES TO BE USED ON THE PROJECT; THE CONTRACTOR MAY USE UP TO FIFTY (50) OF THE AIRPORT'S BARRICADES UPON REQUEST IF AVAILABLE. ANY OF THE AIRPORT'S BARRICADES DAMAGED OR DESTROYED DURING CONSTRUCTION SHALL BE REPLACED WITH THE CONTRACTOR'S BARRICADES AT THE END OF THE PROJECT. NO SEPARATE MEASUREMENT FOR PAYMENT WILL BE MADE FOR THE CONSTRUCTION BARRICADES, RATHER THEY SHALL BE CONSIDERED INCIDENTAL TO THE OVERALL PROJECT.
3. ALL EQUIPMENT, MATERIALS, AND LABOR TO ACCOMPLISH THE WORK AREA PHASING SHOWN ON THESE PLANS AND AS DESCRIBED HEREIN WILL NOT BE MEASURED SEPARATELY FOR PAYMENT, BUT RATHER SHALL BE CONSIDERED INCIDENTAL TO THE OVERALL PROJECT.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING ALL APPLICABLE FAA, MAINEDOT, AND LOCAL REGULATIONS CONCERNING THE MAINTENANCE OF SECURITY. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO THE CONTROL OF ACCESS TO THE AIRFIELD THROUGH THE PROJECT WORK AREAS AND HAUL ROUTES. THE CONTRACTOR IS RESPONSIBLE FOR ANY TEMPORARY FENCING, GATES, OR SECURITY PERSONNEL REQUIRED TO MEET THESE REQUIREMENTS.
5. NO WORK WILL BE PERMITTED TO BEGIN UNTIL ALL COMPONENTS OF THE SAFETY PLAN HAVE BEEN IMPLEMENTED TO THE SATISFACTION OF THE AIRPORT OPERATOR, ALL OF THE REQUIRED 7460'S HAVE BEEN FILED, AND NOTAMS HAVE BEEN ISSUED AND VERIFIED BY THE AIRPORT OPERATOR.

**HAUL ROUTE NOTES:**

1. ACCESS TO THE WORK AREA SHALL BE RESTRICTED TO THE THE DESIGNATED HAUL ROUTES SHOWN ON DWG. NO. S2.1. VEHICLES ARE CONFINED TO THE WORK AREA AND HAUL ROUTE ONLY.
2. THE CONTRACTOR IS PROHIBITED FROM CROSSING RUNWAYS, TAXIWAYS, OR APRONS WITH CONSTRUCTION EQUIPMENT WITHOUT PRIOR APPROVAL BY THE AIRPORT OPERATOR. AT APPROVED CROSSINGS THE CONTRACTOR WILL BE RESPONSIBLE FOR PROTECTING THE EXISTING PAVEMENT FROM DAMAGE. ALL PAVEMENT AREAS DAMAGED BY THE CONTRACTOR MUST BE REPAIRED TO FAA STANDARDS AND TO THE SATISFACTION OF THE OWNER AFTER ALL CONTRACT WORK HAS BEEN COMPLETED. NO MEASUREMENT FOR PAYMENT SHALL BE MADE FOR ANY REPAIRS TO EXISTING PAVEMENT SURFACES DAMAGED DURING CONSTRUCTION. RATHER THIS WORK SHALL BE PERFORMED AT THE CONTRACTOR'S EXPENSE.
3. THE HAULING OF MATERIALS FROM STAGING AREAS TO THE WORK AREAS MUST BE ON THE DESIGNATED HAUL ROUTES SHOWN ON THIS PLAN.
4. THE SPEED LIMIT ON HAUL ROADS AND PAVEMENT WITHIN AIRPORT PROPERTY SHALL BE FIFTEEN MILES PER HOUR (15 MPH). ON PUBLIC ROADWAYS, THE POSTED SPEED LIMITS SHALL BE OBEYED AT ALL TIMES.
5. THE CONTRACTOR MUST ALWAYS MAINTAIN AIRPORT SECURITY BY ENSURING THAT ALL GATES BEING USED FOR CONTRACTOR ACCESS REMAIN LOCKED OR MONITORED AT ALL TIMES.
6. AIRCRAFT ALWAYS HAVE THE RIGHT OF WAY.
7. STOP SIGNS (INCIDENTAL TO THE OVERALL PROJECT) MAY BE REQUIRED AT ANY LOCATION WHERE CONSTRUCTION VEHICLES CROSS ACTIVE AIRPORT PAVEMENTS. IF REQUIRED, THE LOCATION SHALL BE DETERMINED BY THE AIRPORT OPERATOR.
8. THE CONTRACTOR SHALL MAINTAIN CLEAN PAVED SURFACES, BOTH ON AND OFF AIRPORT PROPERTY DURING CONSTRUCTION OF THE PROJECT. THE AIRPORT OPERATOR RESERVES THE RIGHT TO REQUIRE THE CONTRACTOR TO IMMEDIATELY CLEAN ANY PAVED SURFACES ADVERSELY AFFECTED BY CONSTRUCTION ACTIVITIES.
9. THE CONTRACTOR'S STAGING AREAS, PARKING AREAS, AND HAUL ROADS TO/FROM THE WORK AREAS SHALL BE MAINTAINED FOR THE DURATION OF THE PROJECT IN A CLEAN AND STABLE CONDITION AND ANY DAMAGE RESULTING FROM CONSTRUCTION ACTIVITIES SHALL BE REPAIRED UPON COMPLETION OF THE PROJECT.



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**BID SET**

PROJECT	RELOCATE FUEL TANK AND INSTALL SELF-SERVICE EQUIPMENT	BID NUMBER: LA 2024-001	OWNER	AUBURN-LEWISTON AIRPORT CITY OF AUBURN, MAINE
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NO.	DATE	DESCRIPTION	BY
PROJECT NO.		777130	
CADD FILE		777130 - 03 - S11	
DESIGNED BY		AWC	
DRAWN BY		AWC	
CHECKED BY		NAI	
DATE		JULY 2023	
DRAWING SCALE		NOT TO SCALE	

GRAPHIC SCALE

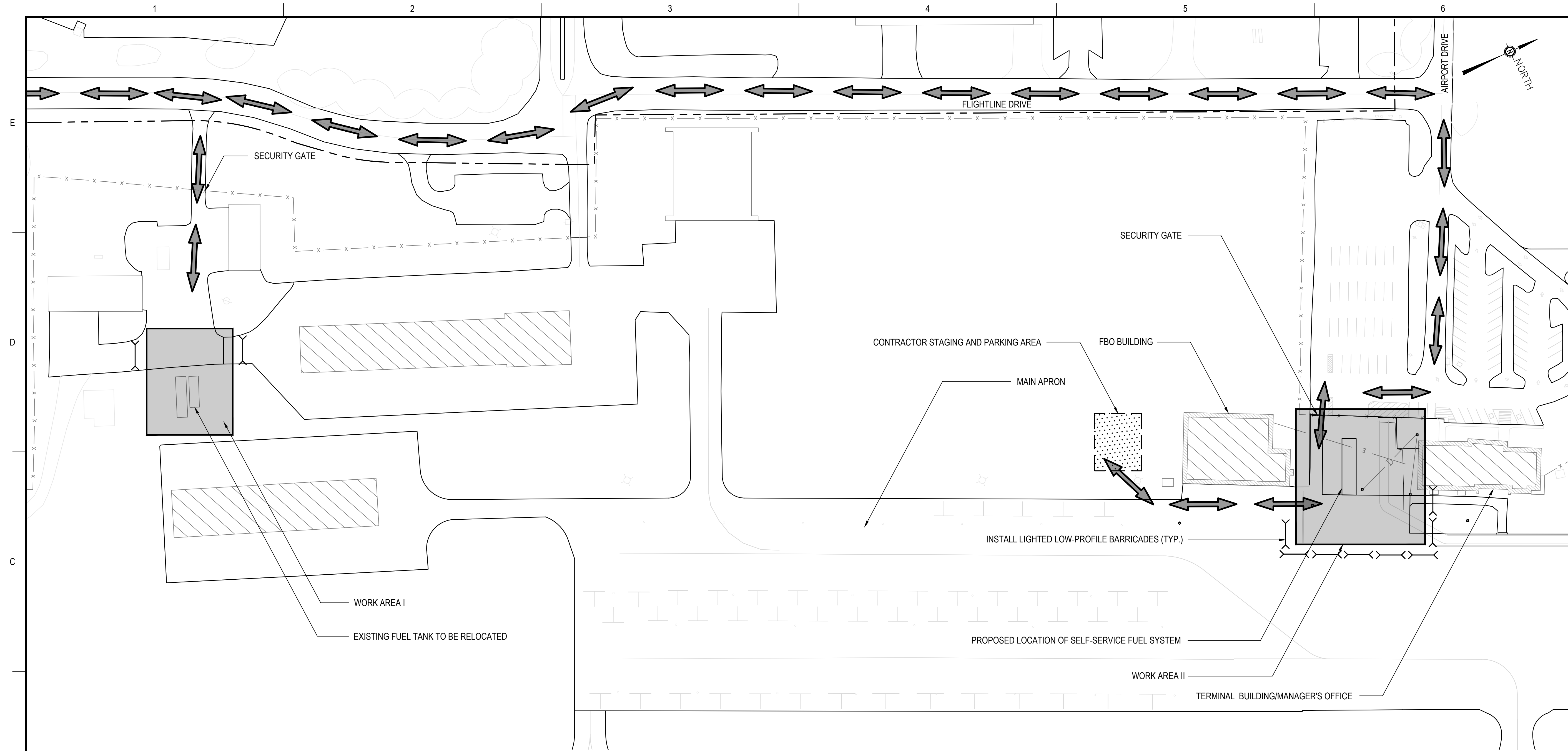


SHEET TITLE

**SAFETY AND PHASING NOTES**

DRAWING NO.

**S2.1**



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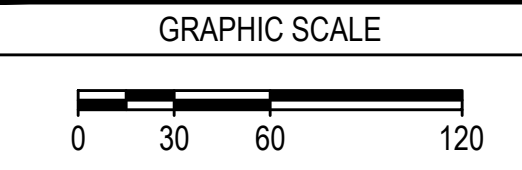
BID SET

PROJECT  
 RELOCATE FUEL TANK AND INSTALL SELF-SERVICE EQUIPMENT

BID NUMBER: LA 2024-001

OWNER  
 AUBURN-LEWISTON AIRPORT  
 CITY OF AUBURN, MAINE

NO.	DATE	DESCRIPTION	BY
PROJECT NO.	777130		
CADD FILE	777130 - 03 - S11		
DESIGNED BY	AWC		
DRAWN BY	AWC		
CHECKED BY	NAI		
DATE	JULY 2023		
DRAWING SCALE	1" = 60'		



SHEET TITLE

SAFETY AND PHASING PLAN AND DETAILS

DRAWING NO.

S1.1

**SAFETY AND PHASING PLAN**

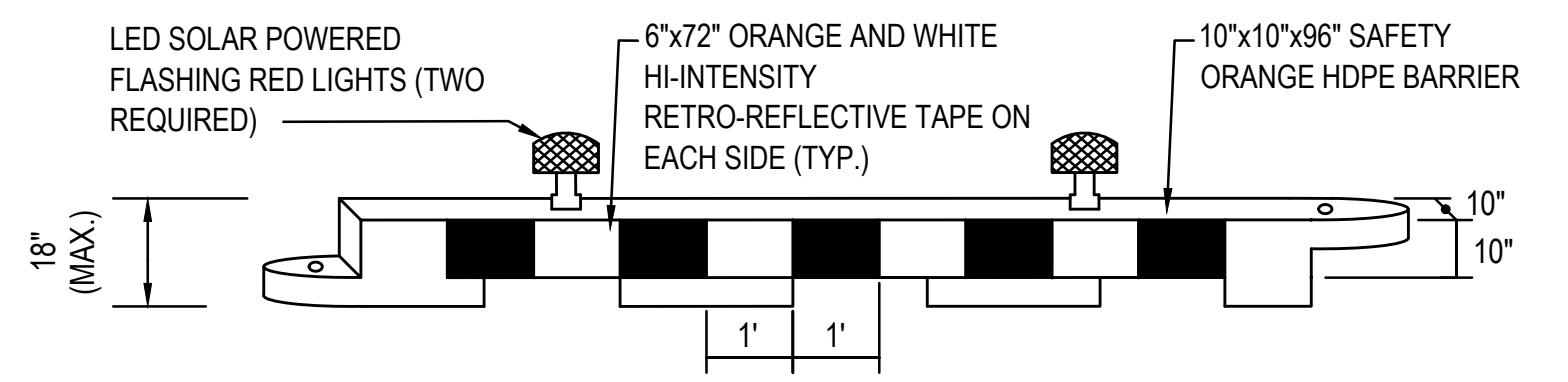
SCALE: 1" = 60'

**LEGEND:**

- - - AIRPORT PROPERTY LINE
- ▭ WORK AREA
- ▨ CONTRACTOR STAGING AND PARKING AREA
- ◊ LIGHTED LOW-PROFILE BARRICADES
- CONSTRUCTION FENCE
- D EXISTING DRAINAGE PIPE
- E EXISTING ELECTRICAL DUCT
- ↔ HAUL ROUTE

**NOTES:**

- FOR WORK AREA AND HAUL ROUTE NOTES, SEE DWG. NO. S2.1.

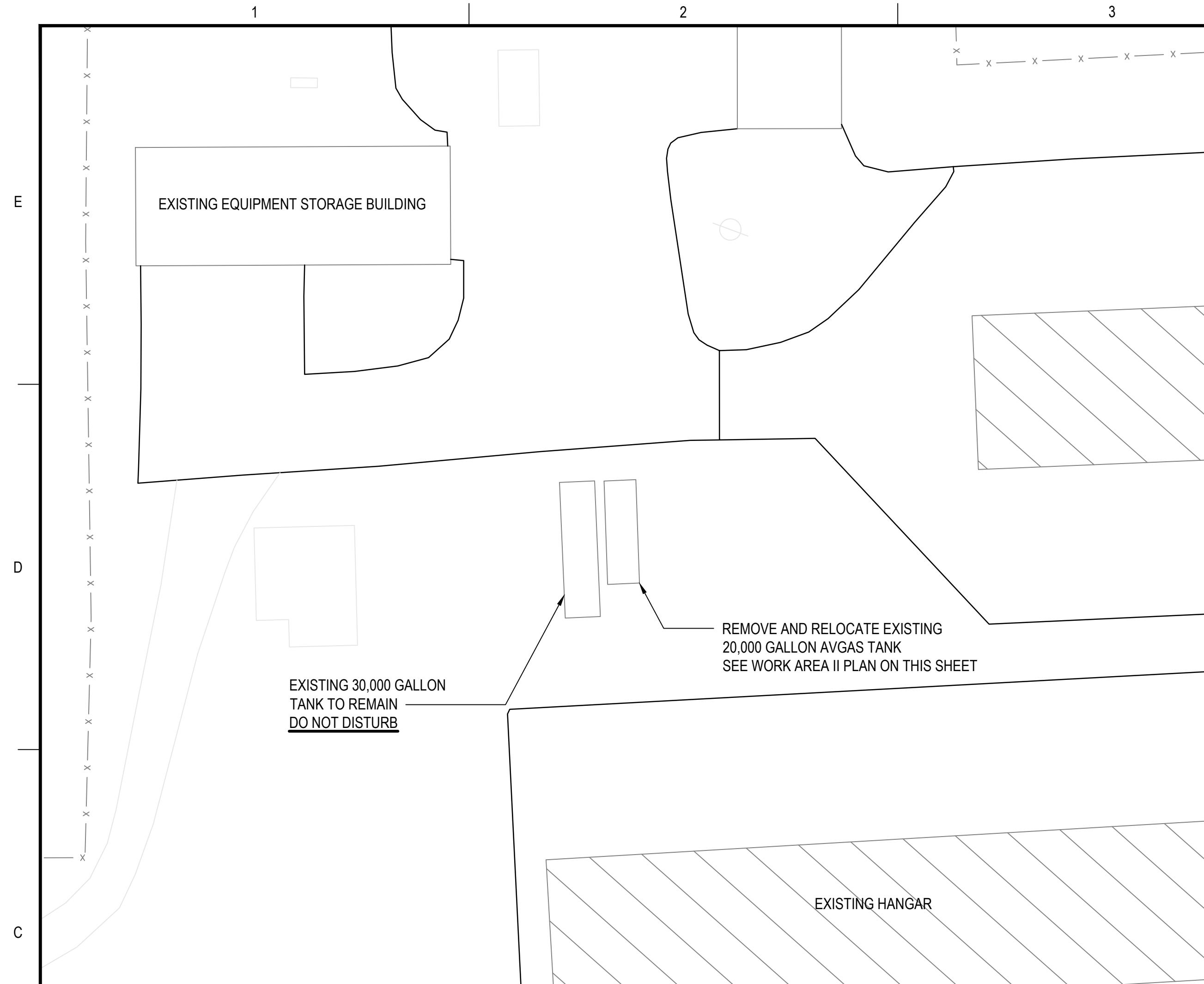


**TYPICAL PLASTIC TYPE LIGHTED BARRICADE NOTES:**

- ALL NEW BARRICADES SHALL BE IN ACCORDANCE WITH THE LATEST VERSION OF FAA ADVISORY CIRCULAR 150/5370-2 ENTITLED "OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION".
- BARRICADES SHALL BE PLACED ALONG THE LIMITS OF THE PHASES OF WORK, AS SHOWN IN THIS SHEET TO DELINEATE THE CONTRACTOR'S WORK AREAS.
- PLASTIC TYPE LIGHTED BARRICADES SHALL BE ORANGE IN COLOR WITH SAFETY ORANGE AND WHITE STRIPED HI-INTENSITY RETRO-FLECTIVE TAPE ON EACH SIDE.
- ALL BARRICADES SHALL BE CHECKED VISUALLY FOR SIGNS OF WEAR AND TEAR ON A WEEKLY BASIS AND REPLACED AS NEEDED.
- ALL LIGHT FIXTURES SHALL BE VERIFIED OPERATIONAL BY THE CONTRACTOR ON A DAILY BASIS AND REPLACED AS NEEDED.
- THE COST TO PROVIDE, INSTALL, AND MAINTAIN THESE DEVICES IS NOT A SEPARATE PAY ITEM, BUT SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.
- BARRICADES SHALL BE FILLED WITH WATER.
- BARRICADES SHALL BE PLACED CONNECTED TO ONE ANOTHER WITH NO SPACING BETWEEN BARRICADES.
- ANY BARRICADES DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AT NO ADDITIONAL COST TO THE AIRPORT.
- ALL BARRICADES SHOWN ON THIS PLAN ARE FOR DISPLAY PURPOSES ONLY AND DO NOT IN ANY WAY INDICATE THE NUMBER OF LIGHTED BARRICADES NEEDED FOR THE PROJECT.

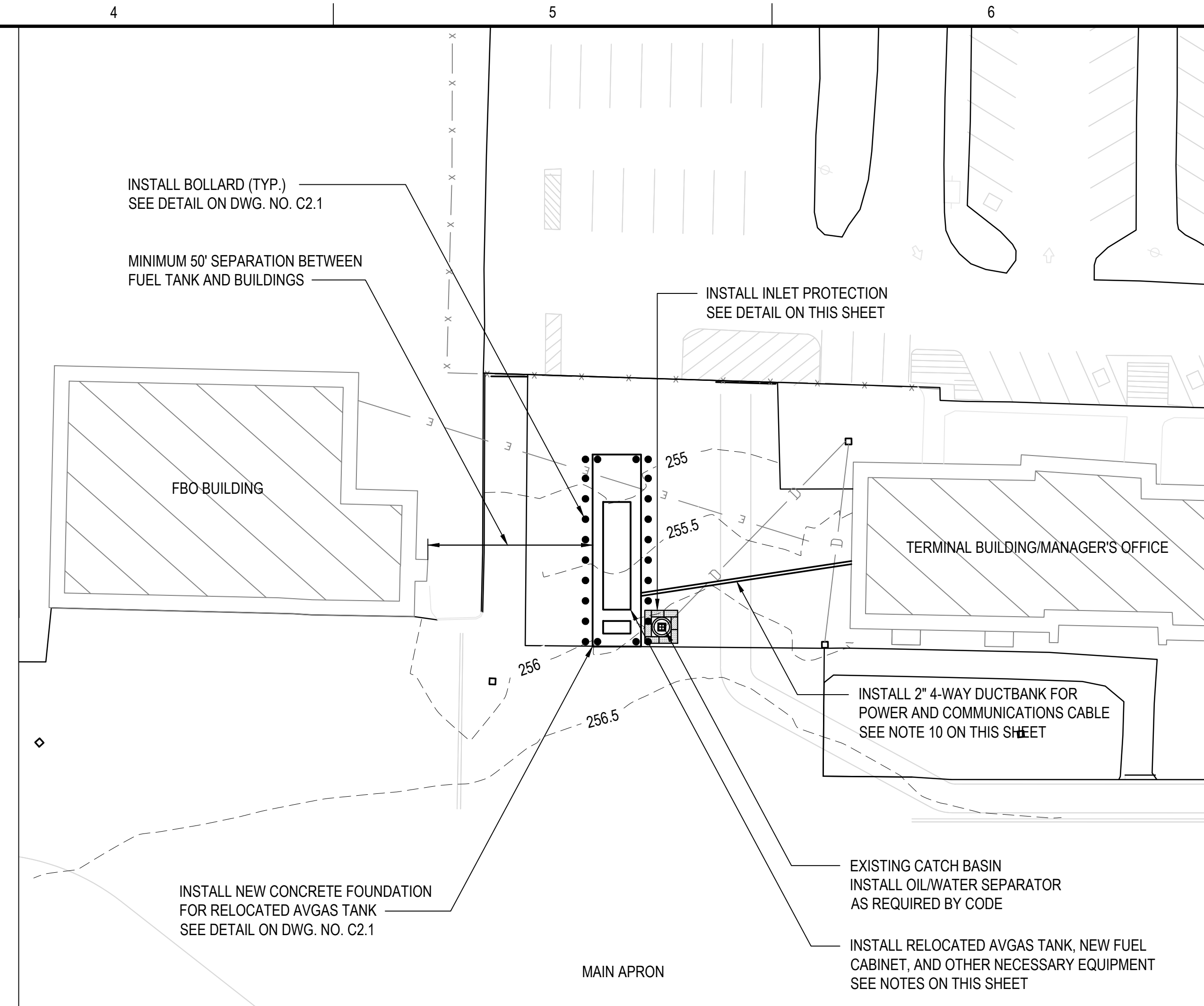
**TYPICAL PLASTIC TYPE LIGHTED BARRICADE DETAIL**

N.T.S.



**WORK AREA I SITE PLAN**

SCALE: 1" = 30'



**WORK AREA II SITE PLAN**

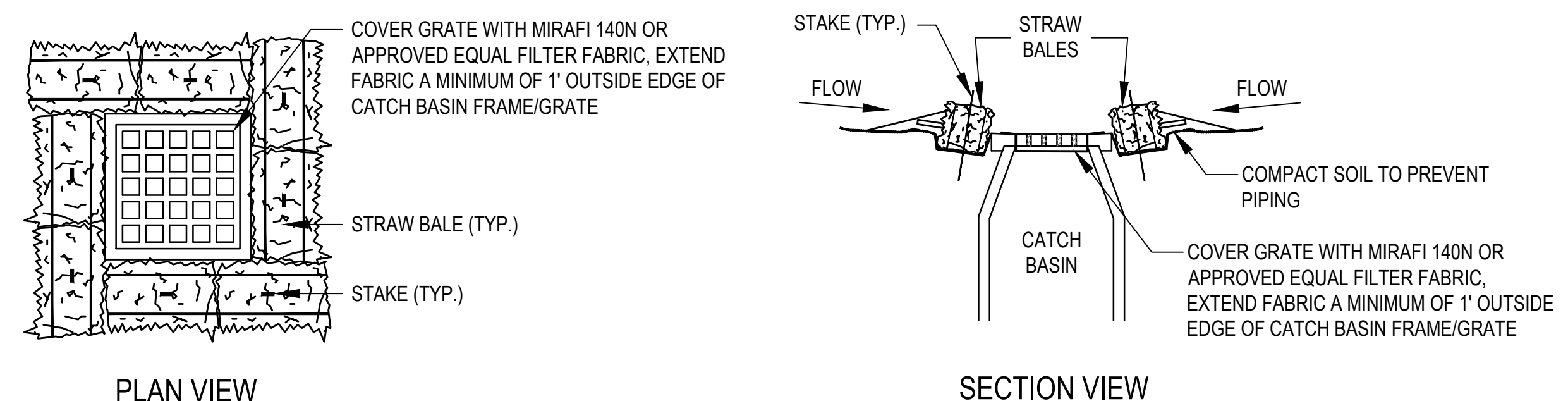
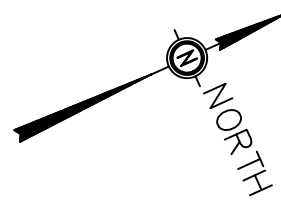
SCALE: 1" = 30'

**LEGEND:**

- EXISTING EDGE OF PAVEMENT
- 254 - EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- INLET PROTECTION

**NOTES:**

1. FOR SAFETY AND PHASING INFORMATION, SEE DWG. NOS. S1.1 AND S2.1.
2. LOCATION OF FUEL TANK INSTALLATION SHOWN IS DIAGRAMMATICAL AND SHALL BE DETERMINED DEFINITELY BY THE CONTRACTOR AND APPROVED BY THE AIRPORT ON SITE PRIOR TO COMMENCEMENT OF WORK.
3. FUEL TANK MUST BE LOCATED A MINIMUM OF 50 FEET FROM ANY BUILDING OR STRUCTURE.
4. ALL EQUIPMENT NEEDED TO PROVIDE A FUNCTIONAL SELF-SERVICE FUELING STATION INCLUDING BUT NOT LIMITED TO PUMPS, HOSES, HOSE REELS, PIPES, ANTI-SIPHON VALVE, OFFLOAD PUMP, COMMUNICATION EQUIPMENT, MONITORING EQUIPMENT, BENNET PUMP, AND LEAN-TO WILL BE CONSIDERED INCIDENTAL TO THE TANK RELOCATION. A CARD READER SYSTEM (QT POD M4000) WILL BE PROVIDED BY THE OWNER.
5. POWER, COMMUNICATION, AND MONITORING CABLING SHALL BE FIELD-LOCATED BY THE CONTRACTOR AND APPROVED BY THE AIRPORT PRIOR TO INSTALLATION.
6. THE CONTRACTOR WILL BE RESPONSIBLE TO APPLY FOR AND OBTAIN ALL NECESSARY PERMITS/APPROVALS REQUIRED BY THE AUTHORITIES HAVING JURISDICTION OVER THE WORK.
7. THE EXISTING AVGAS TANK IS CONNECTED TO A FUEL MONITORING SYSTEM THAT CURRENTLY MONITORS BOTH TANKS. THE CONTRACTOR SHALL PROVIDE AND INSTALL A NEW MONITORING SYSTEM AT THE NEW AVGAS TANK SYSTEM LOCATION AS PART OF THEIR WORK. SEE SPECIFICATION SECTION M-003.
8. THE LAYOUT OF BOLLARDS SURROUNDING THE TANK SYSTEM IS DIAGRAMMATICAL AND THE CONTRACTOR SHALL ENSURE THAT BOLLARDS ARE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS.
9. LOCATIONS OF UTILITIES SHOWN ARE APPROXIMATE AND THE CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY THE LOCATIONS OF ALL UTILITIES PRIOR TO THE COMMENCEMENT OF WORK.
10. THE LOCATION OF THE DUCTBANK FOR POWER AND COMMUNICATIONS BETWEEN THE FUEL SYSTEM AND THE TERMINAL BUILDING IS SHOWN DIAGRAMMATICALLY AND WILL BE DETERMINED IN THE FIELD BY THE CONTRACTOR BASED ON THE POINTS OF CONNECTION TO THE BUILDING AND FUEL SYSTEM AS WELL AS OTHER UNDERGROUND UTILITIES.



PLAN VIEW

SECTION VIEW

**STRAW BALE CHECK DAM AT CATCH BASIN NOTE:**

1. STRAW BALE CHECK DAMS SHALL BE INSTALLED ON ALL PROPOSED AND EXISTING CATCH BASINS WITHIN THE PROJECT WORK AREAS OR AS DIRECTED BY THE ENGINEER.
2. SILT SACKS MAY ALSO BE USED FOR INLET PROTECTION, IF PREFERRED BY THE CONTRACTOR.

**INLET PROTECTION DETAIL**

N.T.S.

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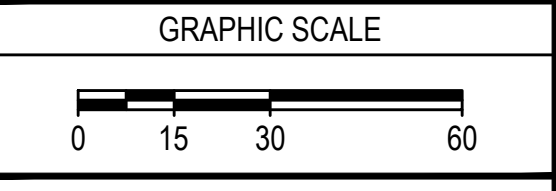
**BID SET**

PROJECT: RELOCATE FUEL TANK AND INSTALL SELF-SERVICE EQUIPMENT

BID NUMBER: LA 2024-001

OWNER: AUBURN-LEWISTON AIRPORT  
CITY OF AUBURN, MAINE

NO.	DATE	DESCRIPTION	BY
PROJECT NO.	777130		
CADD FILE	777130 - 04 - C11		
DESIGNED BY	AWC		
DRAWN BY	AWC		
CHECKED BY	NAI		
DATE	JULY 2023		
DRAWING SCALE	1" = 30'		

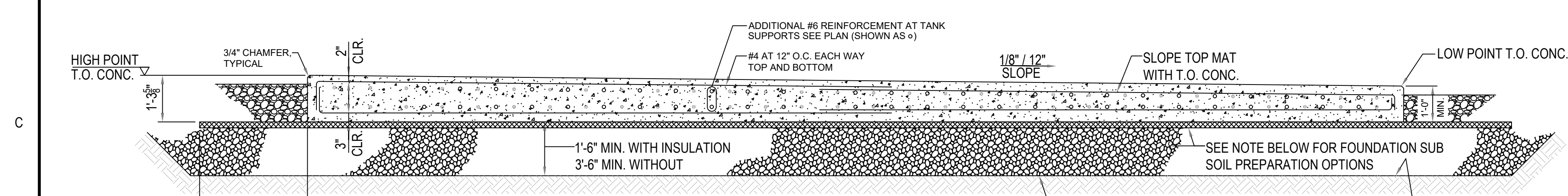
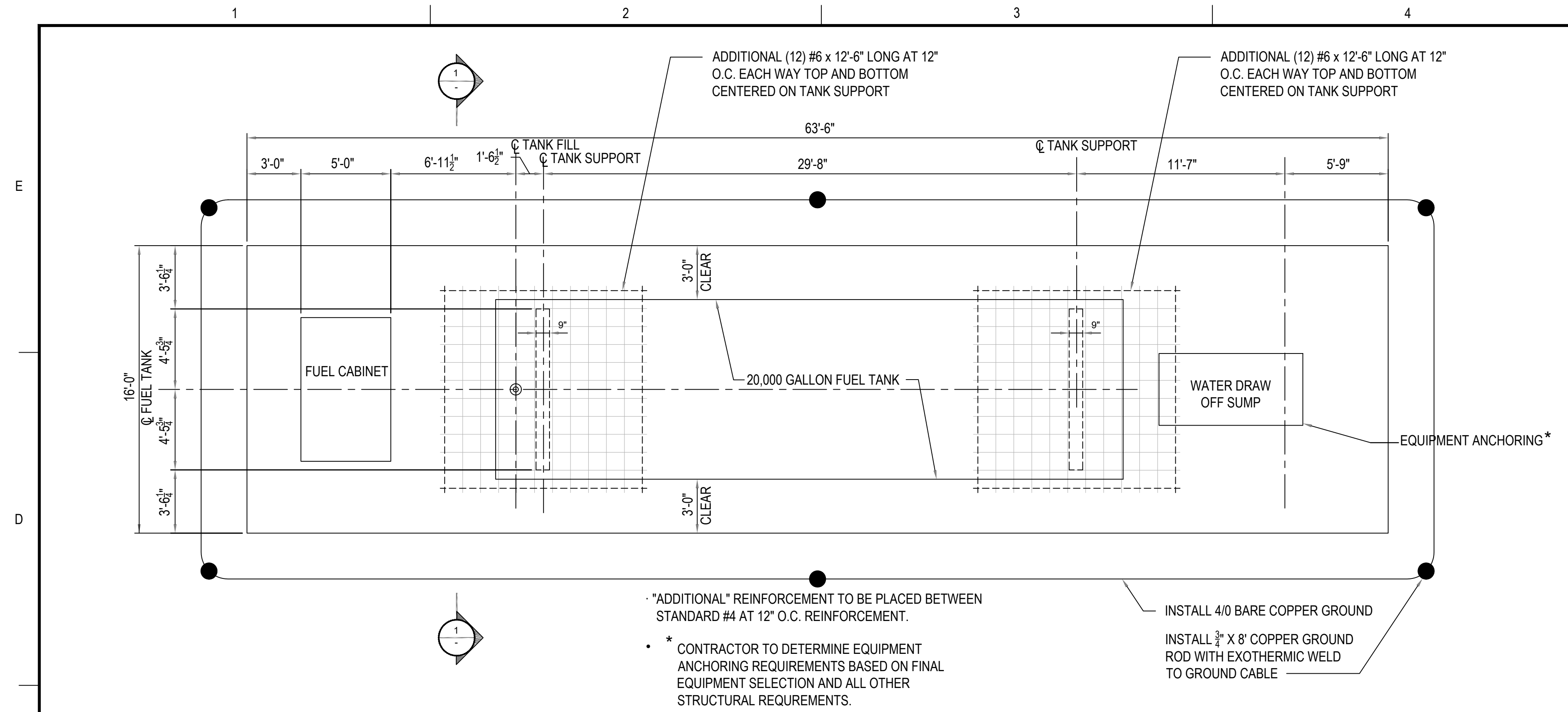


SHEET TITLE

**SITE PLAN**

DRAWING NO.

**C1.1**



**FOUNDATION SUB SOIL PREPARATION OPTIONS:**

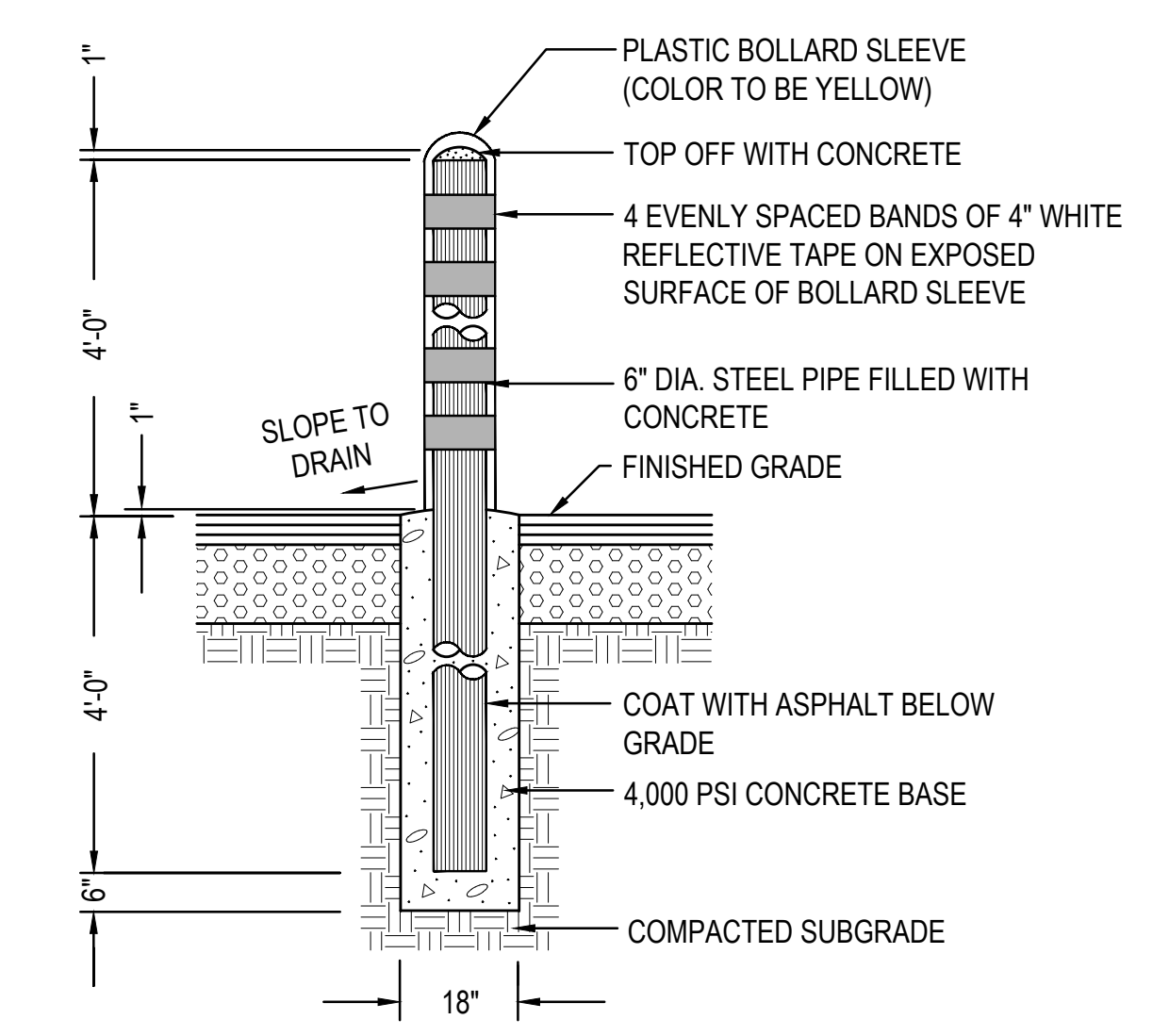
**OPTION A:**  
EXCAVATE 2.5' MINIMUM AND REPLACE WITH 1.5' NON-FROST SUSCEPTIBLE STRUCTURAL FILL BELOW FINISHED TOP OF CONCRETE ELEVATION. INSTALLED AND COMPACTED STRUCTURAL FILL IN ACCORDANCE WITH GEOTECHNICAL RECOMMENDATION. SEEN SECTION ABOVE FOR ADDITIONAL PREPARATION REQUIREMENTS. INSULATED BETWEEN STRUCTURAL FILL AND CONCRETE FOUNDATION WITH 2" OF EXTRUDED POLYSTYRENE INSULATION EXTENDING PAST FOUNDATION LIMITS A MINIMUM OF 3' ON ALL SIDES.

**OPTION B:**  
EXCAVATE 4.5' MINIMUM AND REPLACE WITH 3.5' NON-FROST SUSCEPTIBLE STRUCTURAL FILL BELOW FINISHED TOP OF CONCRETE ELEVATION. INSTALLED AND COMPACTED STRUCTURAL FILL IN ACCORDANCE WITH GEOTECHNICAL RECOMMENDATION. SEE SECTION ABOVE FOR ADDITIONAL PREPARATION REQUIREMENTS. NO INSULATION IS REQUIRED WITH THIS OPTION.

**FOUNDATION PLAN**

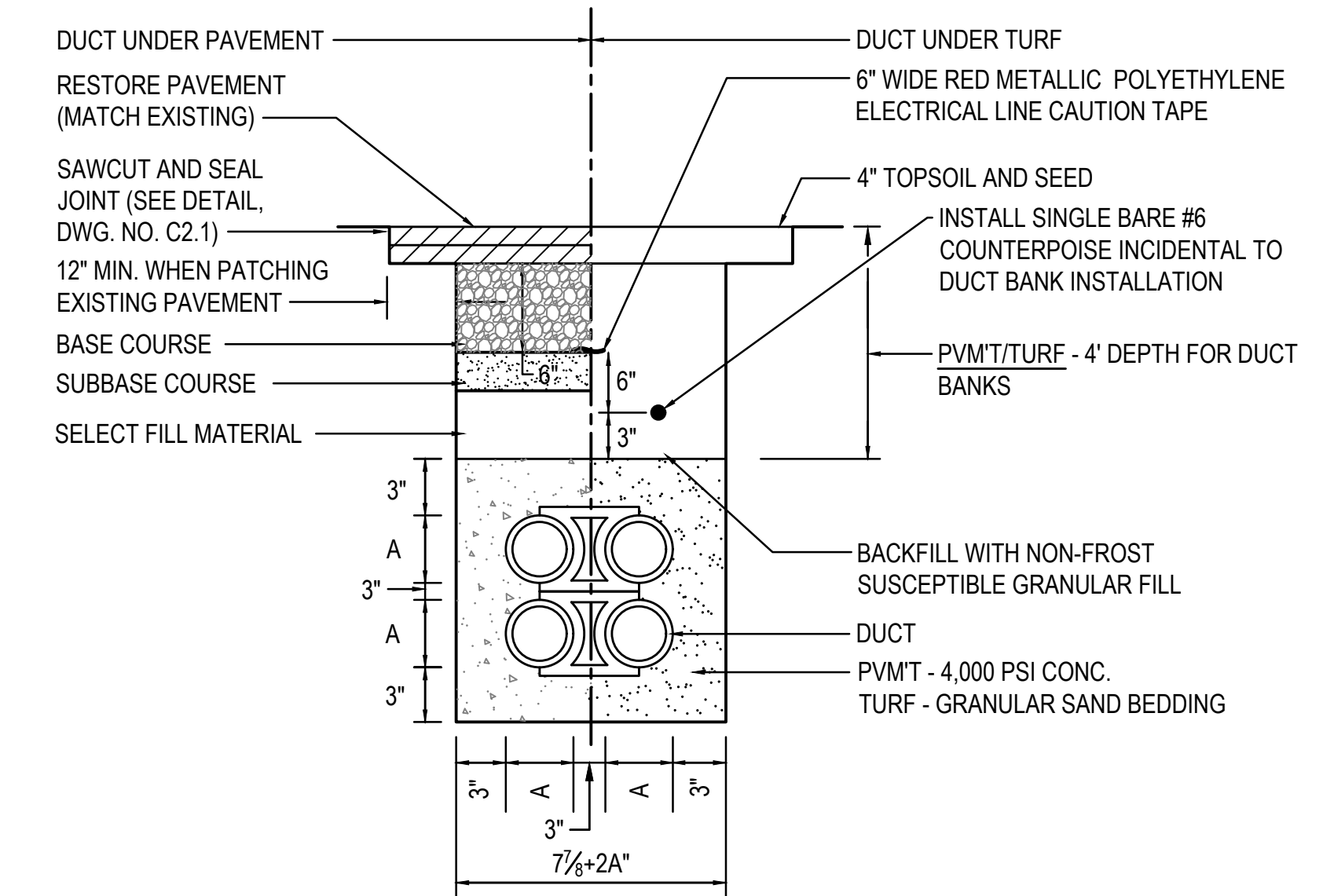
SCALE: 1/4" = 1'-0"

- NOTE:**
- CONTRACTOR SHALL PROVIDE CONNECTIONS TO GROUND GRID FOR REBAR AND ALL FUEL SYSTEM EQUIPMENT USING #6 BARE COPPER GROUNDING CABLE AND EXOTHERMIC WELDING.



**TYPICAL 6" PIPE BOLLARD DETAIL**

N.T.S.



**4-WAY CONCRETE ENCASED/UNENCASED DUCT NOTES:**

- THE DUCT BANK SHALL BE COMPLETED INSTALLED BELOW THE PROPOSED PAVEMENT BOX.
- THE DUCT BANK SHALL BE INSTALLED AT THE LOCATIONS SHOWN ON THE PLANS.

**4-WAY CONCRETE ENCASED/UNENCASED DUCT DETAIL**

N.T.S.

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**BID SET**

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BID NUMBER: LA 2024-001

OWNER: AUBURN-LEWISTON AIRPORT CITY OF AUBURN, MAINE

NO.	DATE	DESCRIPTION	BY
PROJECT NO.	777130		
CADD FILE	777130 - 05 - C21		
DESIGNED BY	AWC		
DRAWN BY	AWC		
CHECKED BY	NAI		
DATE	JULY 2023		
DRAWING SCALE	NOT TO SCALE		

GRAPHIC SCALE

SHEET TITLE

**CONSTRUCTION DETAILS**

DRAWING NO.

**C2.1**

6 OF 6