

NAPLES AIRPORT AUTHORITY

NAPLES AIRPORT (APF)

FUEL FACILITY IMPROVEMENTS PROJECT ISSUED FOR PERMIT

PROJECT ADDRESS:
2707 FUEL FARM RD., NAPLES, FL 34104

ISSUE DATE: APRIL 02, 2024
C&C PROJECT NO. 23049

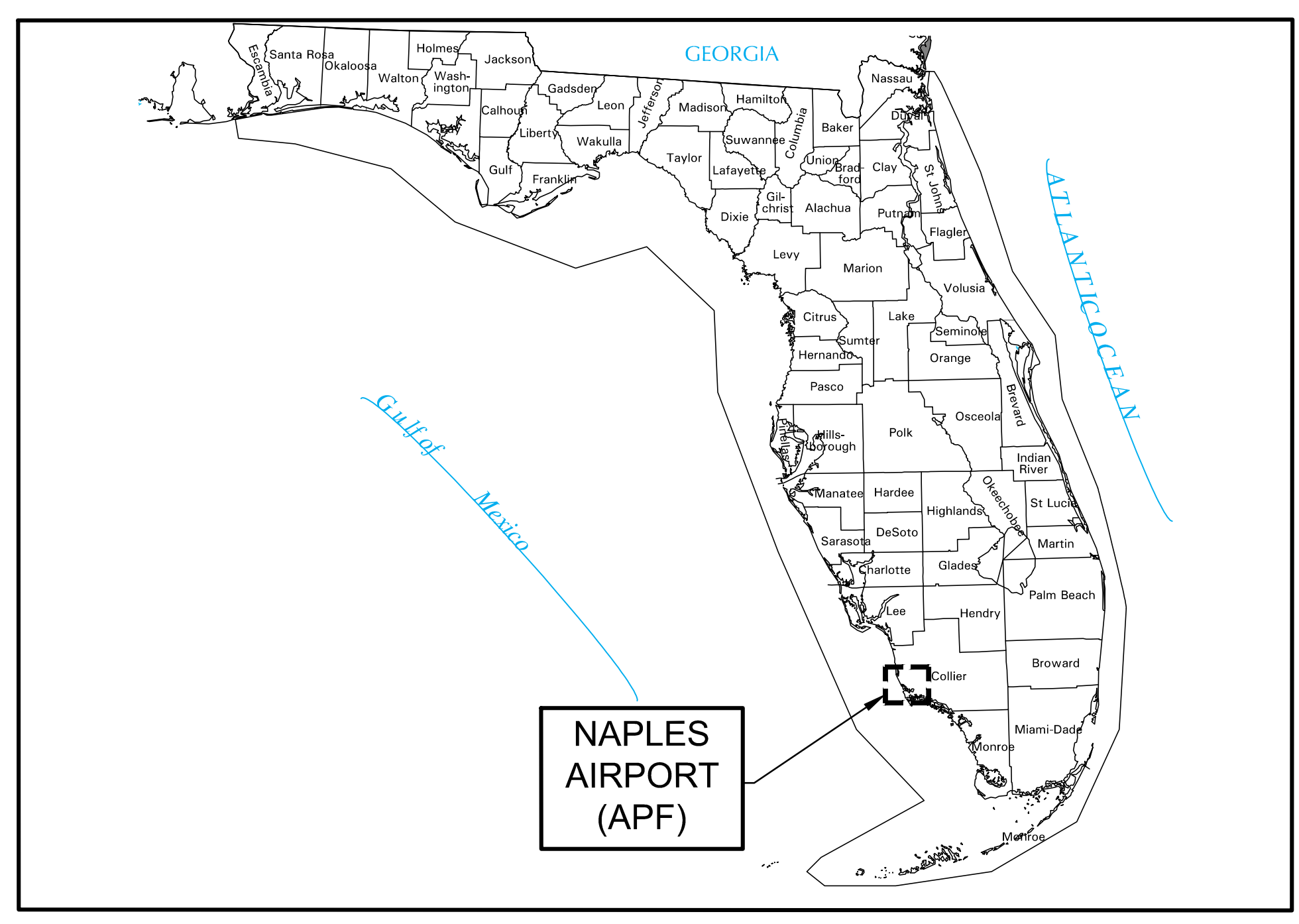
PROJECT TEAM:

PRIME CONSULTANT, & CIVIL & STRUCTURAL:
HANSON PROFESSIONAL SERVICES, INC.
6230 UNIVERSITY PKWY, SUITE 202
SARASOTA, FL 34240
941-342-6321

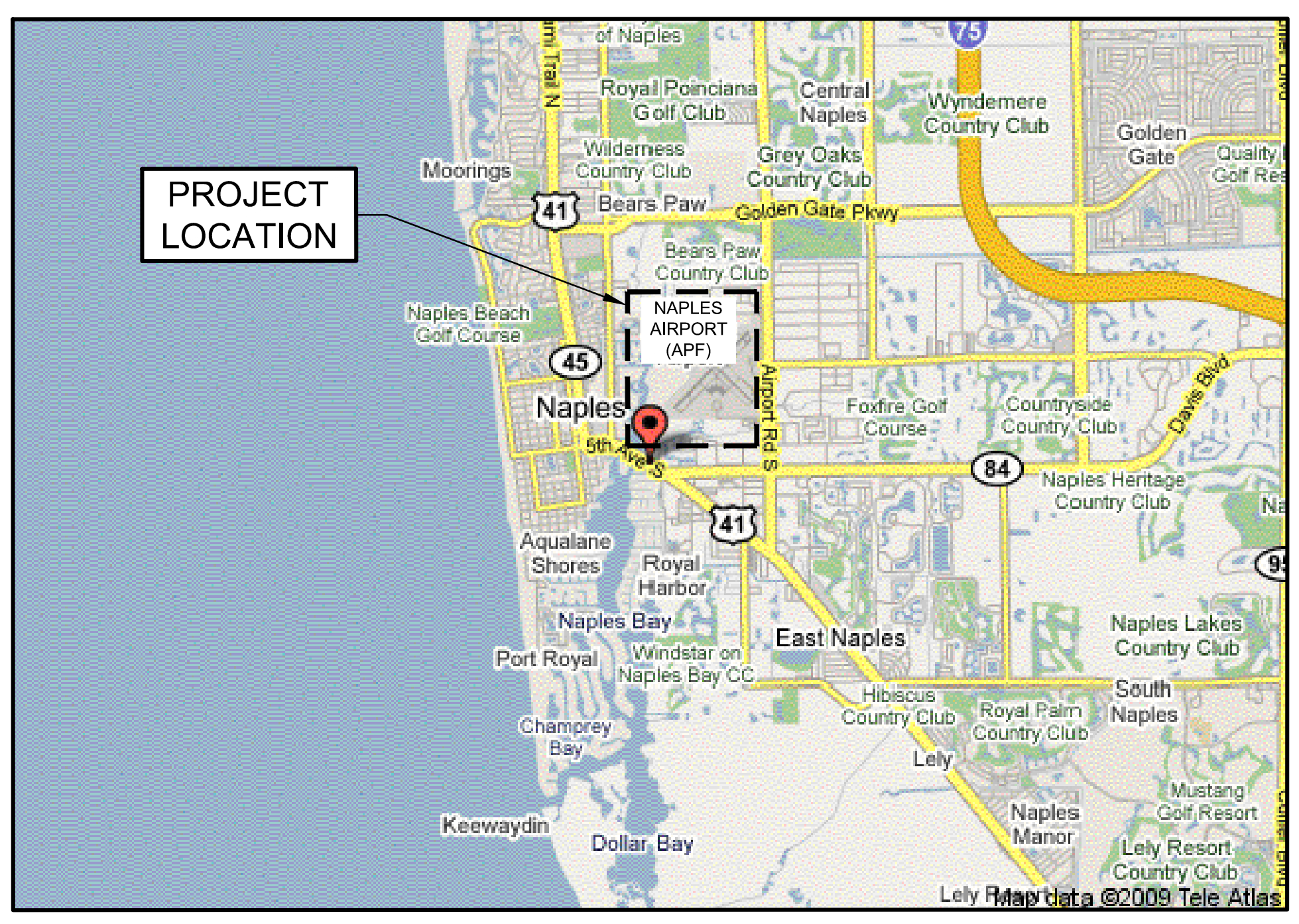
MECHANICAL, ELECTRICAL & CONTROLS SUBCONSULTANT
CURRIER & COMPANY, INC.
13323 W. WASHINGTON BLVD., SUITE 206
LOS ANGELES, CA 90066
310-279-5050

PROJECT OWNER:

CITY OF NAPLES AIRPORT AUTHORITY:
BOARD OF COMMISSIONERS
RICK RUPPERT, CHAIR
RITA CUDDIHY, VICE CHAIR
DONNA M. MESSER
MICHAEL LENHARD
KERRY C. DUSTIN





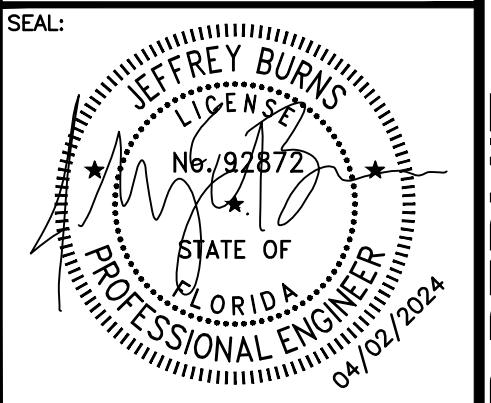
LOCATION MAP
NO SCALE



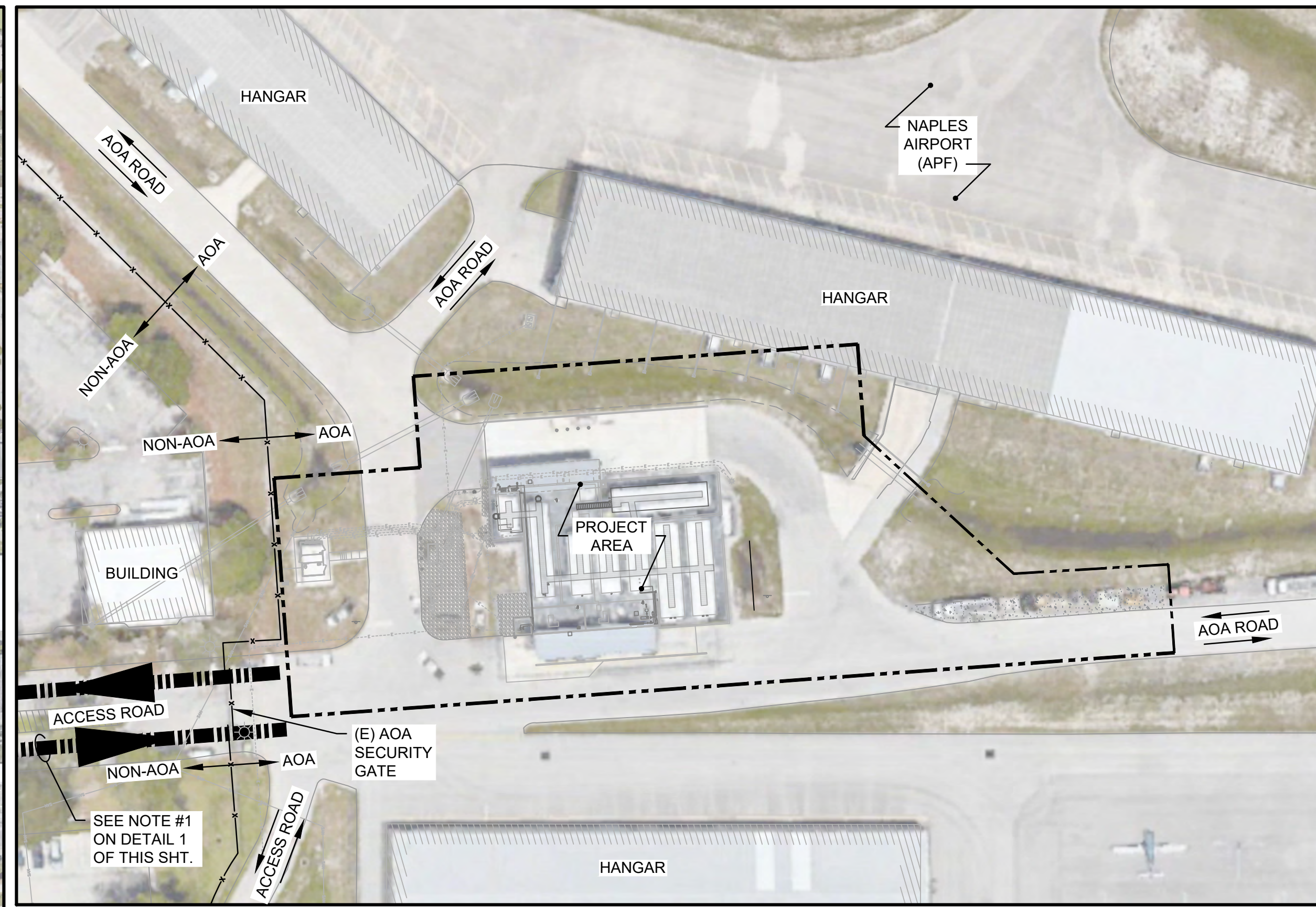
VICINITY MAP
NO SCALE

PARCEL ID: 20764680005

LEGAL DESCRIPTION: UNPLATTED
LANDS N1/2 SEC 2 TWP 50 RNG 25
AND S1/2 SEC 35 TWP 49 RNG 25,
LESS R/W, LESS LEASED PARCELS

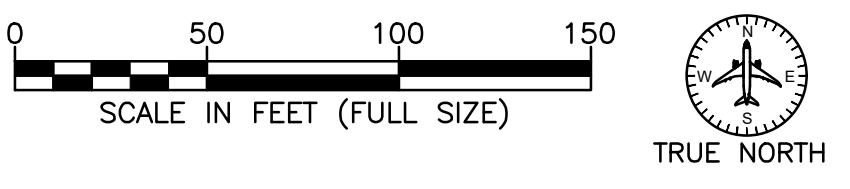
DATE	
REVISIONS	
 	
FUEL FACILITY IMPROVEMENTS PROJECT	NAPLES AIRPORT (APF)
COVER SHEET WITH VICINITY MAP & PROJECT DESIGN TEAM	
PROJECT NAME	DRAWING NAME
ISSUED FOR PERMIT	
CURRIER & CO, INC. 13323 W. WASHINGTON BLVD., SUITE 206 LOS ANGELES, CA 90066 (310) 279-5050	
	
DESIGNED BY: J.E.B.	DATE: 04/02/2024
DRAWN BY: M.G.B.	PROJ. NO: 23049
APPROVED BY: J.E.B.	FILE NAME: 23049G100
SHEET NUMBER: G1.00	

ISSUED FOR PERMIT



2 FUEL FACILITY - AERIAL VIEW

SCALE: NOTED



- NOTES:**
1. CONTRACTOR STAGING AREA ON THE AIRSIDE SHALL BE APPROVED IN ADVANCE BY NAA.
 2. CONTRACTOR SHALL PROVIDE AN APPROVED FENCE WITH LOCKING GATE TO SECURE ANY AREA USED FOR STAGING.
 3. CONTRACTOR SHALL RETURN ANY AND ALL STAGING AREA TO ITS EXISTING CONDITIONS FOUND AT THE BEGINNING OF THE PROJECT.

1 CONTRACTOR ACCESS ROUTE

SCALE: NOTED

NOTES:

1. NORMAL CONSTRUCTION TRAFFIC SHALL EGRESS THROUGH THE PARKING LOT AS SHOWN HEREIN. CONTRACTOR SHALL NOT EGRESS ALONG THE FACE OF THE TERMINAL.
2. LARGE CONTRACTOR VEHICLES (LARGER THAN A PICK-UP TRUCK) SHALL INGRESS AND EGRESS ALONG THE SAME ROUTE SHOWN WITH THE ASSISTANCE OF FLAGMEN TO ESCORT IF NEEDED. HEIGHT RESTRICTIONS AT THE TERMINAL MAKE CIRCUMNAVIGATING TERMINAL DRIVE NOT POSSIBLE SO ALL LARGE VEHICLES MUST EGRESS AS SHOWN.
3. COORDINATE WITH THE AIRPORT STAFF TO FINALIZE THE EXACT ROUTE AND THE NEED FOR FLAGMEN, ETC.

DRAWING INDEX

GENERAL	Mechanical (Building)	Mechanical (Fuel)	Electrical (Fuel)	Electrical (Building)	Structural	Tanks	Electrical (Fuel)	Electrical (Building)	Structural	Mechanical (Building)	Mechanical (Fuel)	Electrical (Fuel)	Electrical (Building)	Structural
G1.00 COVER SHEET WITH VICINITY MAP & PROJECT DESIGN TEAM	M-1 MECHANICAL NOTES, LEGENDS, AND ABBREVIATIONS	FM1.00 FUELING LEGENDS	FE1.00 ELECTRICAL LEGEND, ABBREVIATIONS, GENERAL NOTES & SPECIFICATIONS	E-1 EQUIPMENT SHELTER ADDITIONAL LIGHTING AND RECEPTACLE PLAN	S0.01 STRUCTURAL NOTES	FT1.00 ADD ALTERNATE #1 - PROPOSED 40K-GAL JET-A ABOVEGROUND STORAGE TANK (AST) TANK #10	FE2.00 PROPOSED OVERALL ELECTRICAL CONDITIONS PLAN	E-2 EQUIPMENT SHELTER ADDITIONAL PANEL SCHEDULE AND NOTES	S1.01 TANK PAD AND FOUNDATION PLAN AND DETAILS	M-2 FUEL FACILITY EQUIPMENT SHELTER ADDITION HVAC PLAN	FM1.01 EXISTING JET-A & AVGAS SYSTEM FLOW DIAGRAMS	FE3.00 CONTROL & WIRING DIAGRAMS	E-1 EQUIPMENT SHELTER ADDITIONAL LIGHTING AND RECEPTACLE PLAN	S1.01 TANK PAD AND FOUNDATION PLAN AND DETAILS
G1.01 STAGING AREA, ACCESS ROUTE AND DRAWING INDEX	M-2 FUEL FACILITY EQUIPMENT SHELTER ADDITION HVAC PLAN	FM1.02 JET-A & AVGAS SYSTEM DEMOLITION FLOW DIAGRAMS	FE2.01 HAZARDOUS AREA LOCATION PLAN	E-2 EQUIPMENT SHELTER ADDITIONAL PANEL SCHEDULE AND NOTES	S1.02 FUEL FACILITY SECTIONS	FT4.00 ADD ALTERNATE #1 - TANK DETAILS - SHEET 1	FE2.02 PROPOSED OVERALL GROUNDING PLAN	E-1 EQUIPMENT SHELTER ADDITIONAL LIGHTING AND RECEPTACLE PLAN	S1.03 FUEL FACILITY SECTIONS	M-1 MECHANICAL NOTES, LEGENDS, AND ABBREVIATIONS	FM1.03 PROPOSED JET-A SYSTEM FLOW DIAGRAM	FE3.01 CIRCUIT SCHEDULE - SHEET 1	E-2 EQUIPMENT SHELTER ADDITIONAL PANEL SCHEDULE AND NOTES	S1.03 FUEL FACILITY SECTIONS
G1.02 GENERAL ABBREVIATIONS, LEGENDS & REFERENCES	M-1 MECHANICAL NOTES, LEGENDS, AND ABBREVIATIONS	FM1.04 PROPOSED AVGAS SYSTEM FLOW DIAGRAM	FE2.03 PROPOSED FIBER CONNECTION TO EXISTING FACILITIES BUILDING PLAN	E-2 EQUIPMENT SHELTER ADDITIONAL PANEL SCHEDULE AND NOTES	S2.01 LOADING ISLAND DETAILS	FT4.01 ADD ALTERNATE #1 - TANK DETAILS - SHEET 2	FE2.03 PROPOSED FIBER CONNECTION TO EXISTING FACILITIES BUILDING PLAN	E-2 EQUIPMENT SHELTER ADDITIONAL PANEL SCHEDULE AND NOTES	S2.01 LOADING ISLAND DETAILS	M-2 FUEL FACILITY EQUIPMENT SHELTER ADDITION HVAC PLAN	FM1.05B INTERIM PROPOSED OIL WATER SEPARATOR SYSTEM DIAGRAM	FE2.10 PROPOSED WEST JET-A PUMP AREA & MOGAS/DIESEL DISPENSER ELECTRICAL PLAN	E-2 EQUIPMENT SHELTER ADDITIONAL PANEL SCHEDULE AND NOTES	S2.01 LOADING ISLAND DETAILS
G1.03 GENERAL SCOPE, CODE AND CONTACT INFORMATION	M-2 FUEL FACILITY EQUIPMENT SHELTER ADDITION HVAC PLAN	FM2.00 EXISTING OVERALL MECHANICAL CONDITIONS PLAN	FE2.11 PROPOSED ELECTRICAL PARTIAL PLAN - SHEET 2	E-2 EQUIPMENT SHELTER ADDITIONAL PANEL SCHEDULE AND NOTES	C1.01 EXISTING SITE AND DEMOLITION PLAN - SHEET 1 OF 2	FT4.02 ADD ALTERNATE #1 - TANK DETAILS - SHEET 3	FE2.12 PROPOSED ELECTRICAL PARTIAL PLAN - SHEET 3	E-2 EQUIPMENT SHELTER ADDITIONAL PANEL SCHEDULE AND NOTES	C1.02 EXISTING SITE AND DEMOLITION PLAN - SHEET 2 OF 2	M-1 MECHANICAL NOTES, LEGENDS, AND ABBREVIATIONS	FM2.01 PROPOSED OVERALL MECHANICAL CONDITIONS PLAN	FE2.13 PROPOSED ELECTRICAL PARTIAL PLAN - SHEET 4	E-2 EQUIPMENT SHELTER ADDITIONAL PANEL SCHEDULE AND NOTES	C1.02 EXISTING SITE AND DEMOLITION PLAN - SHEET 2 OF 2
G2.00 EXISTING FACILITY CONDITIONS PLAN	M-1 MECHANICAL NOTES, LEGENDS, AND ABBREVIATIONS	FM2.10 PROPOSED WEST PUMP AREA PLAN	FE2.14 PROPOSED ELECTRICAL PARTIAL PLAN - SHEET 5	E-2 EQUIPMENT SHELTER ADDITIONAL PANEL SCHEDULE AND NOTES	C2.01 PROPOSED SITE PLAN - SHEET 1 OF 2		FE2.15 ELEC/MECH ROOM AREA ELECTRICAL PLAN	E-2 EQUIPMENT SHELTER ADDITIONAL PANEL SCHEDULE AND NOTES	C2.02 PROPOSED SITE PLAN - SHEET 2 OF 2	M-2 FUEL FACILITY EQUIPMENT SHELTER ADDITION HVAC PLAN	FM2.11 PROPOSED EAST PUMP AREA PLAN	FE3.02 CIRCUIT SCHEDULE - SHEET 2	E-2 EQUIPMENT SHELTER ADDITIONAL PANEL SCHEDULE AND NOTES	C2.02 PROPOSED SITE PLAN - SHEET 2 OF 2
G2.01 PROPOSED FACILITY CONDITIONS PLAN	M-2 FUEL FACILITY EQUIPMENT SHELTER ADDITION HVAC PLAN	FM2.12 PROPOSED NORTH PUMP AREA PLAN		E-2 EQUIPMENT SHELTER ADDITIONAL PANEL SCHEDULE AND NOTES	C3.01 PAVING AND GEOMETRY PLAN - SHEET 1 OF 2			E-2 EQUIPMENT SHELTER ADDITIONAL PANEL SCHEDULE AND NOTES	C3.02 PAVING AND GEOMETRY PLAN - SHEET 2 OF 2	M-1 MECHANICAL NOTES, LEGENDS, AND ABBREVIATIONS	FM2.13 PROPOSED TANK #10 AREA PLAN	FE3.03 PANEL SCHEDULES	E-2 EQUIPMENT SHELTER ADDITIONAL PANEL SCHEDULE AND NOTES	C3.02 PAVING AND GEOMETRY PLAN - SHEET 2 OF 2
G2.02 PROPOSED EFSO & FIRE EXTINGUISHER PLAN	M-2 FUEL FACILITY EQUIPMENT SHELTER ADDITION HVAC PLAN	FM2.14 OIL/WATER SEPARATOR RELOCATION PLAN		E-2 EQUIPMENT SHELTER ADDITIONAL PANEL SCHEDULE AND NOTES	C4.01 PROPOSED GRADING AND DRAINAGE PLAN - SHEET 1			E-2 EQUIPMENT SHELTER ADDITIONAL PANEL SCHEDULE AND NOTES	C4.02 PROPOSED GRADING AND DRAINAGE PLAN - SHEET 2	M-2 FUEL FACILITY EQUIPMENT SHELTER ADDITION HVAC PLAN	FM3.00 PROPOSED JET-A TANK #10 ELEVATION		E-2 EQUIPMENT SHELTER ADDITIONAL PANEL SCHEDULE AND NOTES	C4.02 PROPOSED GRADING AND DRAINAGE PLAN - SHEET 2
D2.00 FUEL SYSTEM MECHANICAL & ELECTRICAL DEMOLITION PLAN	M-1 MECHANICAL NOTES, LEGENDS, AND ABBREVIATIONS	FM3.01 PROPOSED JET-A TANK #10 ELEVATION		E-2 EQUIPMENT SHELTER ADDITIONAL PANEL SCHEDULE AND NOTES	C5.01 SITE DETAILS - SHEET 1 OF 2			E-2 EQUIPMENT SHELTER ADDITIONAL PANEL SCHEDULE AND NOTES	C5.01 SITE DETAILS - SHEET 1 OF 2	M-2 FUEL FACILITY EQUIPMENT SHELTER ADDITION HVAC PLAN	FM4.00 MECHANICAL DETAILS - SHEET 1		E-2 EQUIPMENT SHELTER ADDITIONAL PANEL SCHEDULE AND NOTES	C5.01 SITE DETAILS - SHEET 1 OF 2
D4.00 JET-A SYSTEM DEMOLITION DETAILS	M-2 FUEL FACILITY EQUIPMENT SHELTER ADDITION HVAC PLAN	FM4.01 MECHANICAL DETAILS - SHEET 2		E-2 EQUIPMENT SHELTER ADDITIONAL PANEL SCHEDULE AND NOTES	C5.02 SITE DETAILS - SHEET 2 OF 2			E-2 EQUIPMENT SHELTER ADDITIONAL PANEL SCHEDULE AND NOTES	C5.02 SITE DETAILS - SHEET 2 OF 2	M-1 MECHANICAL NOTES, LEGENDS, AND ABBREVIATIONS	FM4.02 MECHANICAL DETAILS - SHEET 3		E-2 EQUIPMENT SHELTER ADDITIONAL PANEL SCHEDULE AND NOTES	C5.02 SITE DETAILS - SHEET 2 OF 2
D4.01 AVGAS SYSTEM DEMOLITION DETAILS	M-1 MECHANICAL NOTES, LEGENDS, AND ABBREVIATIONS	FM4.03 MECHANICAL DETAILS - SHEET 4		E-2 EQUIPMENT SHELTER ADDITIONAL PANEL SCHEDULE AND NOTES	C5.03 FENCING DETAILS			E-2 EQUIPMENT SHELTER ADDITIONAL PANEL SCHEDULE AND NOTES	C5.03 FENCING DETAILS	M-2 FUEL FACILITY EQUIPMENT SHELTER ADDITION HVAC PLAN	FM4.04 MECHANICAL DETAILS - SHEET 5		E-2 EQUIPMENT SHELTER ADDITIONAL PANEL SCHEDULE AND NOTES	C5.03 FENCING DETAILS
D4.02 OWS SYSTEM DEMOLITION DETAILS	M-2 FUEL FACILITY EQUIPMENT SHELTER ADDITION HVAC PLAN	FM4.05 DISPENSER DETAILS & SPECIFICATIONS		E-2 EQUIPMENT SHELTER ADDITIONAL PANEL SCHEDULE AND NOTES				E-2 EQUIPMENT SHELTER ADDITIONAL PANEL SCHEDULE AND NOTES		M-1 MECHANICAL NOTES, LEGENDS, AND ABBREVIATIONS	FM4.05 DISPENSER DETAILS & SPECIFICATIONS		E-2 EQUIPMENT SHELTER ADDITIONAL PANEL SCHEDULE AND NOTES	

DATE			
REVISIONS			
FUEL FACILITY IMPROVEMENTS PROJECT		STAGING AREA, ACCESS ROUTE AND DRAWING INDEX	
PROJECT NAME		DRAWING NAME	
PROJECT LOCATION		DRAWING NAME	
<p>ISSUED FOR PERMIT</p> <p>CURRIER & CO., INC. 13323 W. WASHINGTON BLVD., SUITE 206 LOS ANGELES, CA 90066 (310) 279-5050</p>			
<p>SEAL:</p> <p>JEFFREY E. BURNS PROFESSIONAL ENGINEER STATE OF FLORIDA # 92872 - EXPIRES 2/28/2025</p>			
DESIGNED BY: J.E.B.	DATE: 04/02/2024		
DRAWN BY: J.H.	PLOT NO: 23049		
APPROVED BY: J.E.B.	FILE NAME: 23049G101		
SHEET NUMBER: G1.01			

GENERAL SCOPE NOTES

COORDINATION, PHASING, ENVIRONMENTAL & WARRANTY NOTES

CONTACT INFORMATION

SCOPE
1. CONTRACTOR SHALL PROVIDE, SUPPLY, FURNISH, INSTALL AND COMMISSION A NEW SET OF IMPROVEMENTS TO THE EXISTING NAPLES AIRPORT AUTHORITY (NAA, OWNER) FUEL FACILITY THAT SERVES THE NAPLES AIRPORT (APF) IN NAPLES, FLORIDA.

SECURITY AND ACCESS NOTES
1. THE NEW FUEL STORAGE FACILITY IS LOCATED INSIDE THE SECURED AREA OF THE AIRPORT, AND THEREFORE THE CONTRACTOR SHALL COORDINATE ALL ACCESS TO THE FACILITY AREA WITH THE OWNER/OPERATOR AND FOLLOW ALL AIRPORT AND UTILITY RELATED RULES AND REGULATIONS AT ALL TIMES.

C1. THE CONTRACTOR SHALL DESIGNATE THE EMPLOYEE(S) THAT ARE RESPONSIBLE AND AVAILABLE FOR MAINTAINING CONSTRUCTION OPERATIONS AND SIGNAGE 24-HOURS PER DAY, AND PROVIDE THE OWNER A 24-HOUR CONTACT NAME AND NUMBER.
C2. AIRPORT CONTACT INFO:
A NAA SR. DIRECTOR OF AIRPORT DEVELOPMENT
KERRY D. KEITH
KKEITH@FLYNAPLES.COM
239-253-4137 (CELL)

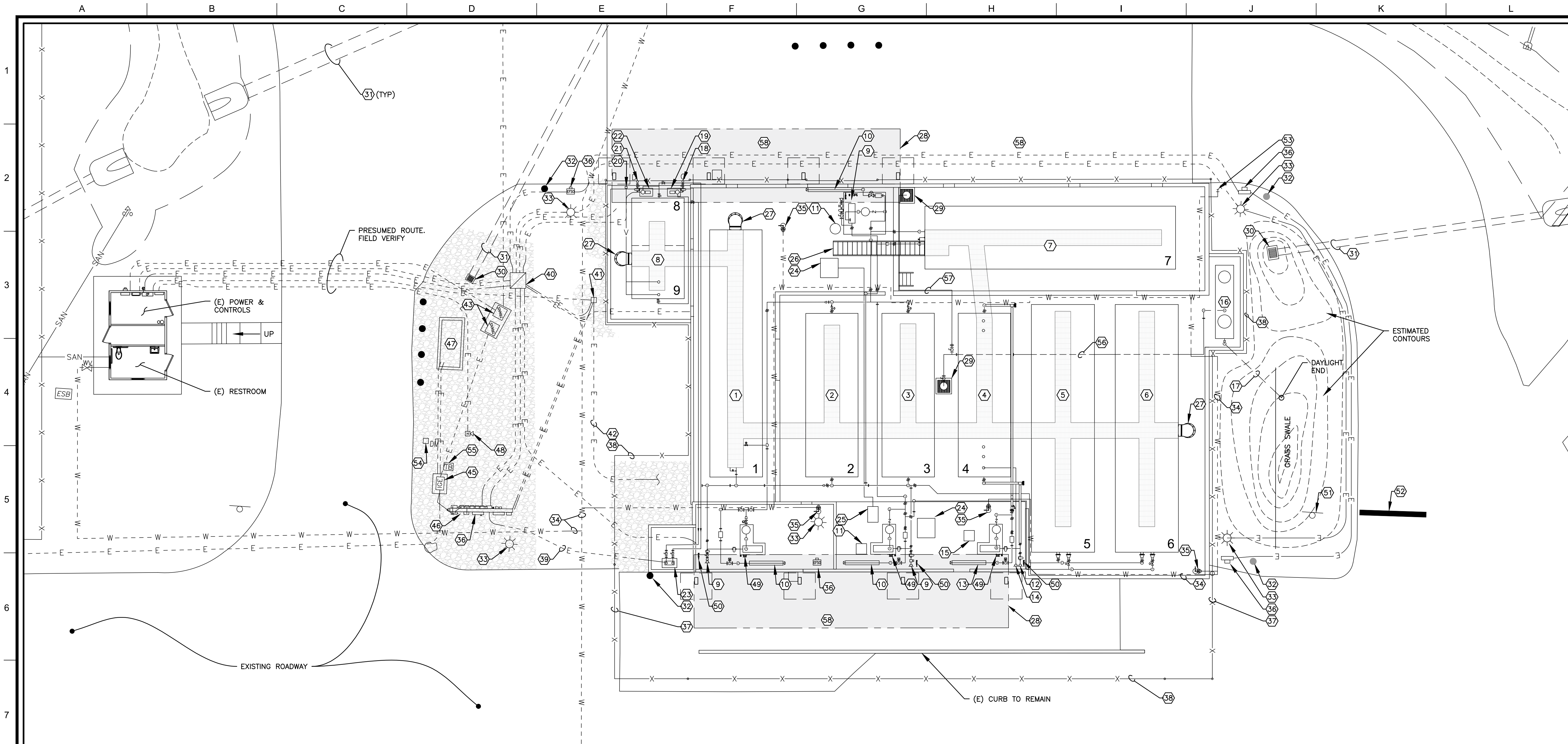
16. IN ADDITION TO A CONSTRUCTION NPDES PERMIT, CONTRACTOR SHALL PROVIDE AND EXECUTE A STORM WATER POLLUTION PREVENTION PLAN (SWPPP). THE SWPPP SHALL BE APPROVED BY THE OWNER, THE AIRPORT ADMINISTRATION, FDEP AND THEIR DESIGNERS PRIOR TO COMMENCING WORK.

COORDINATION WITH OPERATIONS
1. THE EXISTING APF FUELING FACILITY IS IN OPERATION ON A DAILY BASIS WITHOUT ANY INTERRUPTION. CONTRACTOR SHALL NOT DISABLE ANY SYSTEM OR CAUSE ANY SYSTEM TO FAIL UNLESS HAVING ALREADY FULLY COORDINATED THE OUTAGE COMPLETELY WITH THE PROPER REPRESENTATIVES AND TO THE OWNER'S SATISFACTION IN ADVANCE.

APPLICABLE CODES
APPLICABLE CODES AND STANDARDS:
1. 2023 FLORIDA BUILDING CODE (8TH EDITION, EFFECTIVE 12/31/2023)
2. 2023 FLORIDA FIRE PREVENTION CODE (FFPC) (8TH EDITION, EFFECTIVE 12/31/2023)

Plotted: P:\APF - Naples, FL\23049 APF DBB Transition and Electrical Replacement - Design\DWG\General\23049G103.dwg 4/2/2024 9:50 AM - Jay

Project information block containing CURRIER ENGINEERING MANAGEMENT CONSULTING logo, project name 'FUEL FACILITY IMPROVEMENTS PROJECT', permit information 'ISSUED FOR PERMIT', and professional engineer details for Jeffrey E. Burns, State of Florida, License No. 92872.



1 EXISTING FACILITY CONDITIONS PLAN



- KEYNOTES: (#)**
- 1. 30K GAL. D/W JET-A TANK #1
 - 2. 20K GAL. S/W JET-A TANK #2
 - 3. 20K GAL. S/W JET-A TANK #3
 - 4. 20K GAL. S/W AVGAS TANK #4
 - 5. 40K GAL. D/W JET-A TANK #5
 - 6. 40K GAL. D/W JET-A TANK #6
 - 7. 40K GAL. S/W JET-A TANK #7
 - 8. 12K GAL. S/W MOGAS/DIESEL TANKS #8 & #9 (10K GAL DIESEL TANK #8, 2K GAL MOGAS TANK #9)
 - 9. JET-A OFFLOADING POSITION
 - 10. JET-A LOADING POSITION
 - 11. JET-A SUMP SEPARATOR
 - 12. AVGAS OFFLOADING POSITION
 - 13. AVGAS LOADING POSITION
 - 14. AVGAS VAPOR RECOVERY
 - 15. AVGAS SUMP SEPARATOR
 - 16. 1200-GAL. OWS WITH ESTIMATED 120 GPM CAPACITY
 - 17. 4" OWS EFFLUENT DISCHARGE
 - 18. MOGAS OFFLOADING POSITION
 - 19. MOGAS PUMP
 - 20. MOGAS VAPOR RECOVERY CONNECTION
 - 21. DIESEL OFFLOADING POSITION
 - 22. DIESEL PUMP
 - 23. MOGAS/DIESEL DISPENSER
 - 24. JET-A ANTI-ICING AGENT TANK
 - 25. JET-A ANTI-ICING TRANSFER PUMP
 - 26. TANK CATWALK ACCESS STAIR
 - 27. TANK CATWALK ACCESS LADDER
 - 28. CANOPY
 - 29. CONTAINMENT DRAIN
 - 30. STORM WATER DROP INLET
 - 31. U/G STORM LINE
 - 32. SITE BOLLARD
 - 33. AREA LIGHT
 - 34. U/G WATER SUPPLY
 - 35. EMERGENCY SHOWER/EYE WASH STATION
 - 36. EFSO
 - 37. LOADING/UNLOADING ACCESS/EGRESS SLIDING GATES
 - 38. FACILITY FENCE
 - 39. DISPENSER WIRING
 - 40. 24"x24"x8" J-BOX TO REMAIN (DIMENSIONS APPROXIMATE - FIELD VERIFY)
 - 41. 12"x12"x6" J-BOX TO REMAIN FOR VEEDER ROOT WIRING (DIMENSIONS APPROXIMATE - FIELD VERIFY)
 - 42. VEEDER ROOT WIRING
 - 43. TRANSFORMERS - SEE ELECTRICAL PLANS
 - 44. ELECTRICAL WIRING FROM CONTROL BUILDING
 - 45. ELECTRICAL HAND HOLE
 - 46. PUMP POWER & DISTRIBUTION PANEL - SEE ELECTRICAL PLANS
 - 47. GENERATOR
 - 48. VEEDER ROOT ALARM HORN
 - 49. SCULLY RACK
 - 50. GROUNDING REEL
 - 51. STOP SIGN
 - 52. STOP BAR PAVEMENT MARKING
 - 53. HOSE BIB
 - 54. DUCT MARKER
 - 55. TELEPHONE SPLICE BOX
 - 56. 3" C.S. OWS MANIFOLD PIPE FOR SUMP PUMPS (TO BE REMOVED & REUSED TEMPORARILY)
 - 57. 2" C.S. NORTH SUMP PIPE TO OWS MANIFOLD PIPE
 - 58. CONTAINED AREA TO REMAIN

- GENERAL NOTES:**
1. PRE-EXISTING SURVEY AND UTILITY DATA WAS OBTAINED BY CURRIER & COMPANY AND USED TO GENERATE THESE PLANS. NO NEW SURVEY WAS AUTHORIZED OR CONDUCTED. ALL U/G ELEMENTS ARE UNVERIFIED.
 2. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONAL INFORMATION PRIOR TO EITHER ORDERING OR FABRICATING MATERIALS.
 3. CONTRACTOR SHALL FOLLOW THE PROPOSED ROUTING OF ALL NEW PIPING UNLESS ADVANCED ACCEPTANCE FROM THE NAA AND THE ENGINEER IS PROVIDED. NON-COMPLIANT PIPING FOUND ON SITE SHALL BE REPLACED BY CONTRACTOR AT NO INCREASE IN THE CONTRACT SUM.

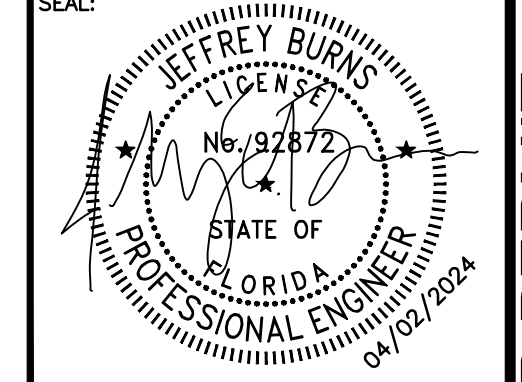
DATE	REVISIONS

CURRIER
ENGINEERING MANAGEMENT CONSULTING

FUEL FACILITY IMPROVEMENTS PROJECT	NAPLES AIRPORT (APF)	EXISTING FACILITY CONDITIONS PLAN
PROJECT NAME	PROJECT LOCATION	DRAWING NAME

ISSUED FOR PERMIT

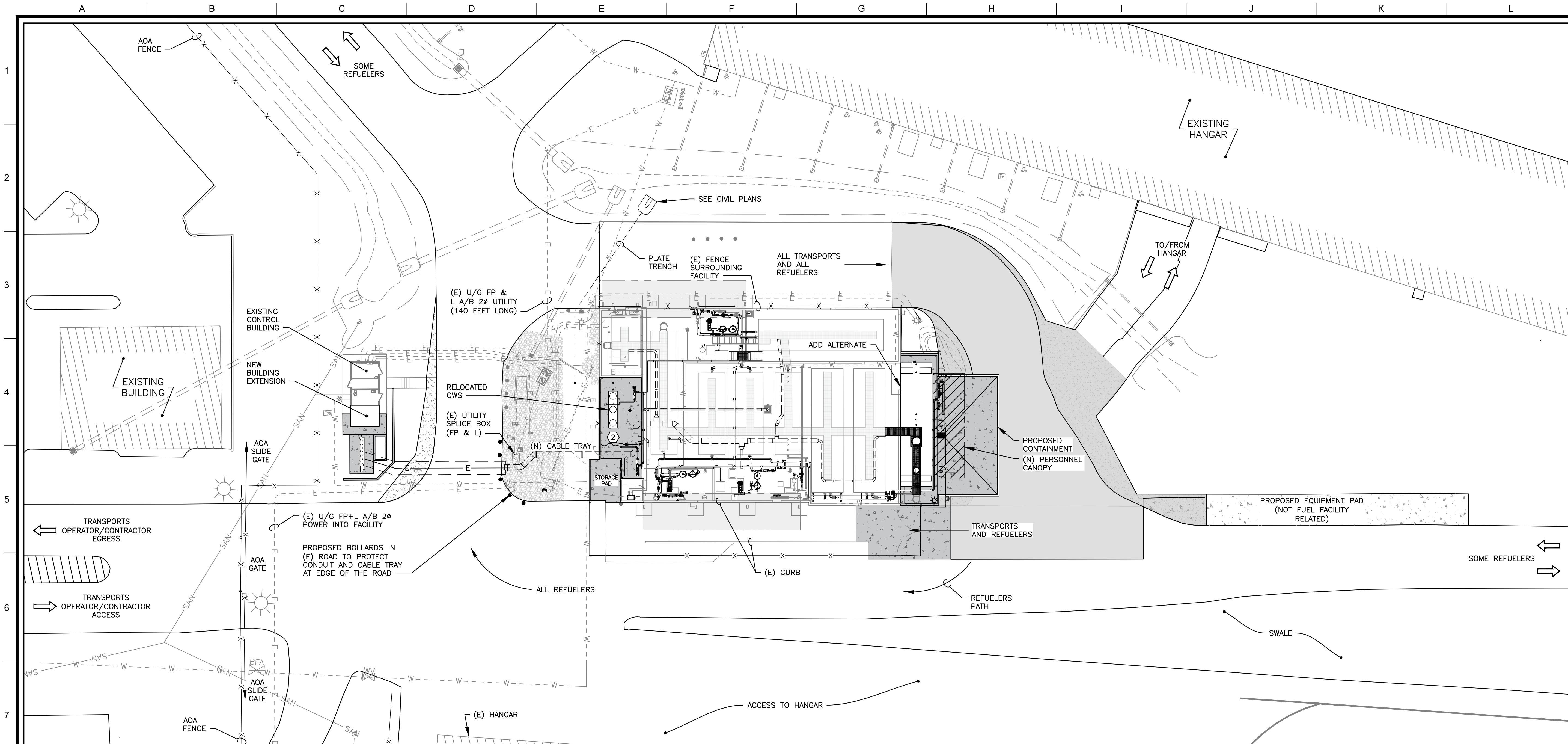
CURRIER & CO., INC.
13323 W. WASHINGTON BLVD., SUITE 206
LOS ANGELES, CA 90066
(310) 279-5050



DESIGNED BY: J.E.B. DATE: 04/02/2024
DRAWN BY: M.G. PROJ. NO.: 23049
APPROVED BY: J.E.B. FILE NAME: 23049G200
SHEET NUMBER:

G2.00

ISSUED FOR PERMIT



1 PROPOSED FACILITY CONDITIONS PLAN

SCALE: NOTED



- KEYNOTES: (#)**
- DO NOT BLOCK ANY ROADS & PLATE ANY TRENCHES IN ANY ROADWAY - SUITED TO H2O AND OTHER HEAVY EQUIPMENT/DELIVERIES.
 - (N) CONTAINED AREA DRAINS INTO (E) CONTAINMENT AREA

- GENERAL NOTES:**
- SEE TRAFFIC PATTERN CALLED OUT ON THIS PLAN.
 - PHASING IS NOT INDICATED ON THIS SHEET BUT IS REQUIRED.

DATE	REVISIONS

CURRIER
ENGINEERING MANAGEMENT CONSULTING

Naples AIRPORT

FUEL FACILITY IMPROVEMENTS PROJECT	NAPLES AIRPORT (APF)	PROPOSED FACILITY CONDITIONS PLAN
PROJECT NAME	PROJECT LOCATION	DRAWING NAME

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CURRIER & CO., INC.
13323 W. WASHINGTON BLVD., SUITE 206
LOS ANGELES, CA 90066
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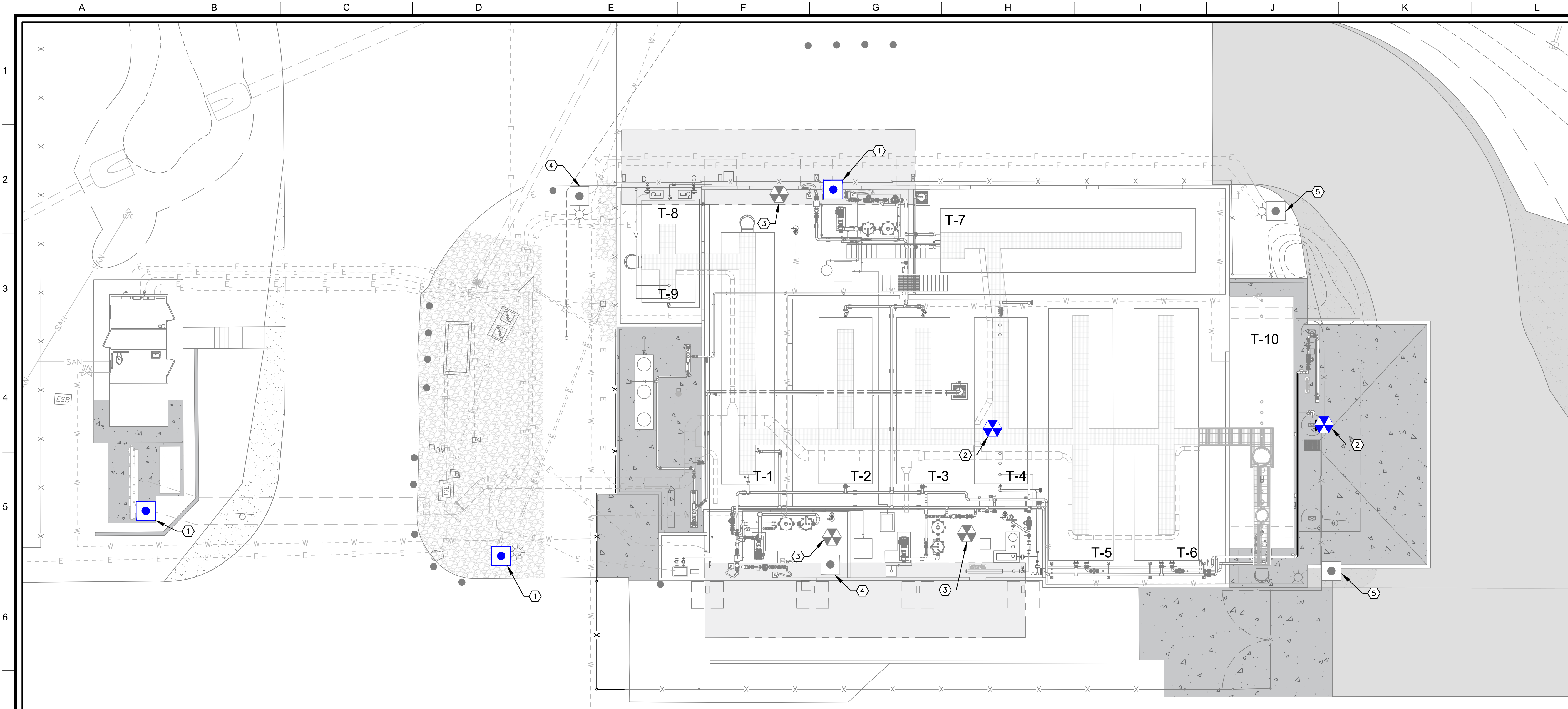
SEAL:

JEFFREY E. BURNS
PROFESSIONAL ENGINEER
STATE OF FLORIDA
92872 - EXPIRES 2/28/2025

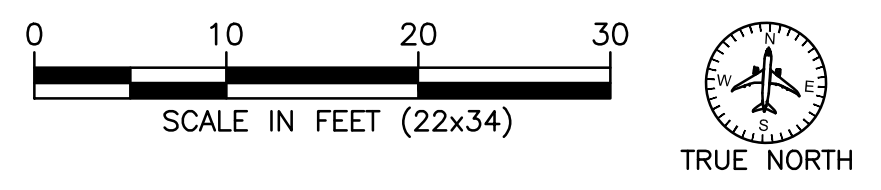
DESIGNED BY: J.E.B. DATE: 04/02/2024
DRAWN BY: M.G. PROJ. NO: 23049
APPROVED BY: J.E.B. FILE NAME: 23049G201
SHEET NUMBER:

G2.01

ISSUED FOR PERMIT



1 PROPOSED EFSO & FIRE EXTINGUISHER PLAN
 SCALE: NOTED

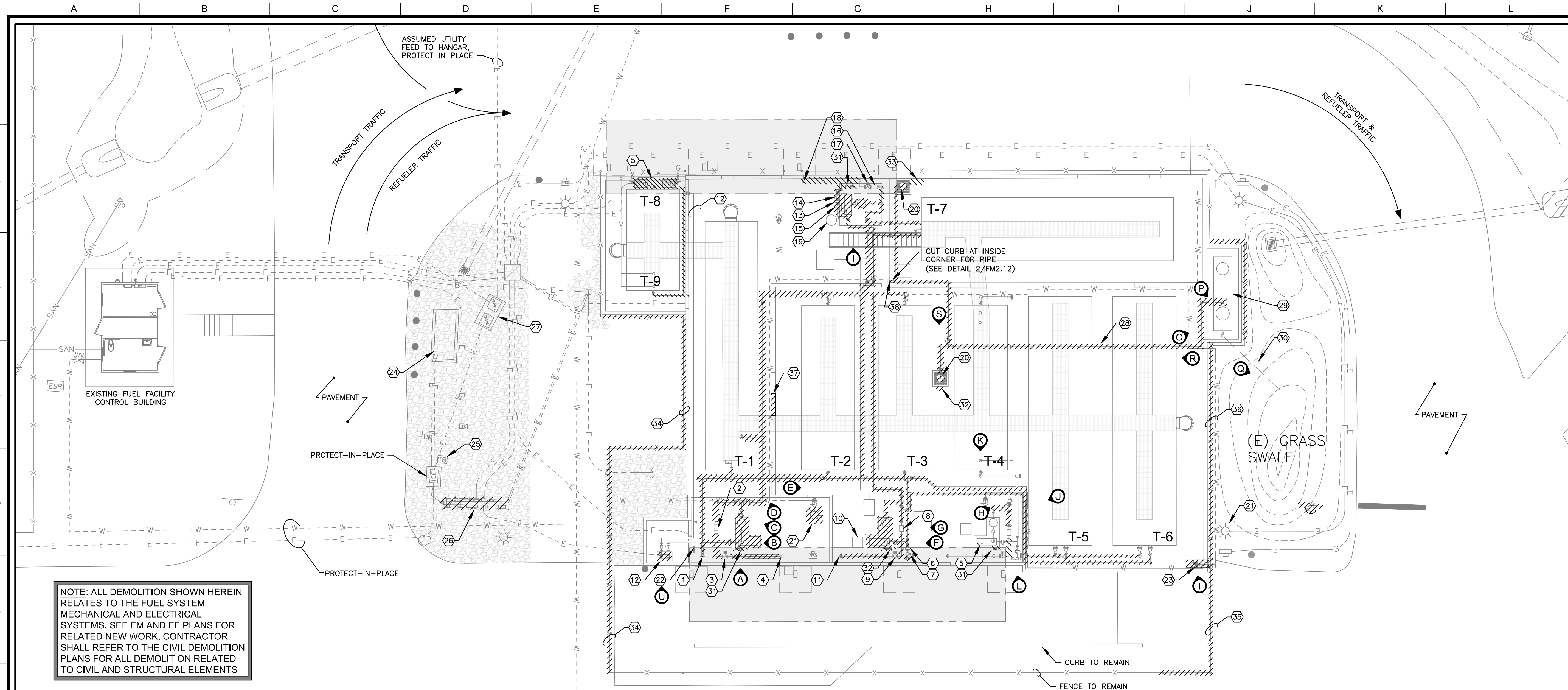


- KEYNOTES:**
1. (N) EFSO PUSH STATION, SEE ELECTRICAL PLANS
 2. (N) 20-LB UL 120 BC FIRE EXTINGUISHER, SEE DETAIL 3/FM4.02
 3. (E) 20-LB FIRE EXTINGUISHER
 4. (E) EFSO PUSH STATION TO REMAIN
 5. (E) RELOCATED EFSO PUSH STATION

LEGEND	
	NEW EFSO STATION
	EXISTING EFSO STATION
	NEW 20 LB. PURPLE-K FIRE (UL 120 BC) EXTINGUISHER
	EXISTING 20 LB. FIRE EXTINGUISHER

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DATE					
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FUEL FACILITY IMPROVEMENTS PROJECT NAPLES AIRPORT (APF)	PROPOSED EFSO & FIRE EXTINGUISHER PLAN				
PROJECT NAME PROJECT LOCATION DRAWING NAME	ISSUED FOR PERMIT				
CURRIER & CO., INC. 13323 W. WASHINGTON BLVD., SUITE 206 LOS ANGELES, CA 90066 (310) 279-5050					
SEAL:					
JEFFREY E. BURNS PROFESSIONAL ENGINEER STATE OF FLORIDA # 92872 - EXPIRES 2/28/2025					
DESIGNED BY: J.E.B. DATE: 04/02/2024 DRAWN BY: M.G. PROJ. NO: 23049 APPROVED BY: J.E.B. FILE NAME: 23049G202	G2.02				

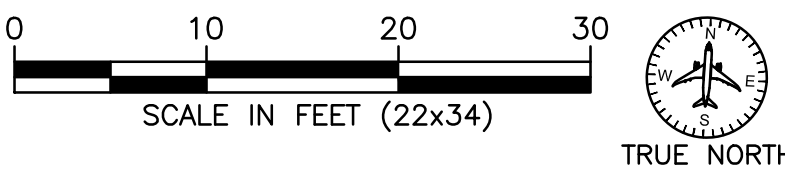
ISSUED FOR PERMIT



NOTE: ALL DEMOLITION SHOWN HEREIN RELATES TO THE FUEL SYSTEM MECHANICAL AND ELECTRICAL SYSTEMS. SEE FM AND FE PLANS FOR RELATED NEW WORK. CONTRACTOR SHALL REFER TO THE CIVIL DEMOLITION PLANS FOR ALL DEMOLITION RELATED TO CIVIL AND STRUCTURAL ELEMENTS

FUEL SYSTEM MECHANICAL & ELECTRICAL DEMOLITION PLAN

(ALSO SEE CIVIL DEMOLITION PLANS)



- KEYNOTES:**
- (E) OFFLOADING CONNECTION SHALL BE RE-USED FOR SOUTH-WEST OFFLOADING POSITION
 - (E) LIQUID CONTROLS M-25 POSITIVE DISPLACEMENT METER SHALL BE RE-USED AT SOUTH-WEST LOADING RACK
 - (E) 3" BALL VALVE W/ INDELAC CONTROLS SHALL BE RE-USED AT SOUTH-WEST LOADING RACK
 - (E) BAYONET CONNECTION SHALL BE RE-USED AT SOUTH-WEST LOADING RACK
 - (E) UNDERGROUND FEEDER CONDUIT FOR THE AVGAS, MOGAS AND DIESEL PUMPS SHALL HAVE THE CONDUCTORS REMOVED AND BE SEALED & CAPPED AS PART OF THE NEW POWER FEEDS
 - (E) 4" STRAINER SHALL BE DEMOLISHED
 - (E) 4" JET-A ANTI-ICING AGENT INJECTOR SHALL BE RELOCATED TO SOUTH-WEST OFFLOADING POSITION
 - (E) LIQUID CONTROLS M-25 POSITIVE DISPLACEMENT METER SHALL BE RE-USED AT SOUTH-WEST OFFLOADING RACK
 - (E) 3" BALL VALVE W/ INDELAC CONTROLS SHALL BE RE-USED AT EAST LOADING RACK
 - (E) 25-GAL JET-A SUMP SEPARATOR SHALL BE RELOCATED NEXT TO PUMP #4 AND HAVE 1" PIPING TO PUMP INLET FOR FUEL RECOVERY
 - (E) BAYONET CONNECTION SHALL BE RELOCATED TO EAST LOADING RACK
 - (E) MOGAS & DIESEL DISPENSER SHALL BE DEMOLISHED, AND REPLACED - CONTINUE TO USE SUPPLY PLUMBING FROM T-8 & T-9, AND CONNECT TO NEW DISPENSER AS DETAILED.
 - (E) 4" STRAINER SHALL BE RE-USED AT REVISED NORTH OFFLOADING POSITION
 - (E) 4" JET-A ANTI-ICING AGENT INJECTOR SHALL BE RE-USED AT REVISED NORTH OFFLOADING POSITION
 - (E) 4" BALL VALVE SHALL BE RE-USED AT REVISED NORTH OFFLOADING POSITION
 - (E) LIQUID CONTROLS M-25 POSITIVE DISPLACEMENT METER SHALL BE RE-USED AT NORTH LOADING RACK
 - (E) 3" SOLENOID CONTROL VALVE SHALL BE RE-USED AT NORTH LOADING RACK
 - (E) BAYONET CONNECTION SHALL BE RE-USED AT NORTH LOADING RACK
 - (E) SUMP SEPARATOR SHALL BE RELOCATED AT NORTH LOADING POSITION
 - (E) SUBMERSIBLE PUMP TO BE REPLACED AFTER NEW SUMP SYSTEM IS OPERATIONAL
 - (E) LIGHT POLE SHALL BE DEMOLISHED AND THE (E) CONDUIT SHALL HAVE THE CONDUCTORS REMOVED AND BE SEALED & CAPPED (E) GROUNDING REELS SHALL BE PROTECTED-IN-PLACE
 - (E) BUTTERFLY VALVES SHALL BE PROTECTED-IN-PLACE
 - (E) EYEWASH STATION SHALL BE RELOCATED
 - (E) GENERATOR AND BASE TANK, TO BE RELOCATED
 - (E) TRANSFER SWITCH, TO BE DEMOLISHED
 - (E) ELECTRICAL DISTRIBUTION AND CONTROLS RACK, TO BE DEMOLISHED AFTER THE (N) ELECTRICAL INFRASTRUCTURE IS CONSTRUCTED, LOADS TRANSFERRED AND ELECTRICAL SYSTEMS COMMISSIONED.
 - (E) PAD MOUNT UTILITY TRANSFORMERS TO REMAIN. SEE STRUCTURAL PLANS.
 - (E) 2" (FIELD VERIFY) FORCE MAIN TO OWS, TO BE TEMPORARILY RELOCATED TO SUIT RELOCATED OWS. SEE FM1.05A, FM1.05B, AND FM2.10. CONTRACTOR TO DEMOLISH AND DISPOSE OF PIPE AFTER PERMANENT IMPROVEMENTS ARE CONSTRUCTED. SEE D4.02 PHOTOS.
 - (E) OWS, TO BE RELOCATED, SEE CIVIL/STRUCTURAL AND FM PLANS.
 - (E) OWS EFFLUENT PIPE, TO BE DEMOLISHED
 - EACH PUMP CONTROL STATION SHALL BE SELECTIVELY DEMOLISHED AND RESTRUCTURED AROUND THE EXISTING SCULLY PANEL AS (N) CONDUITS WILL BE RUN FROM THE (N) MOTOR STARTERS AND THE CONTROL DESIGN SHALL BE UPDATED TO ALL PUMP FUNCTION THE SAME. (E) CONDUITS THAT PENETRATE THE CONTAINMENT SLAB SHALL HAVE THE CONDUCTORS REMOVED AND BE SEALED AND CAPPED AT THE FIRST JOINT OUT OF THE SLAB.
 - (E) SUBMERSIBLE PUMP COMBINATION BREAKER/STARTER PANEL SHALL BE DEMOLISHED AFTER NEW SUMP SYSTEM IS OPERATIONAL. (E) CONDUIT THAT PENETRATE THE CONTAINMENT SLAB SHALL HAVE THE CONDUCTORS REMOVED AND BE SEALED & CAPPED AT THE FIRST JOINT OUT OF THE SLAB.
 - (E) UNDERGROUND FEEDER CONDUIT FOR THE SUBMERSIBLE PUMP SHALL HAVE THE THE CONDUCTORS REMOVED AND BE SEALED & CAPPED AS PART OF THE NEW POWER FEED.
 - DEMOLISH & REPLACE FENCE FOR PRIST & OWS AREA.
 - GATE & SOME FENCING TO BE DEMOLISHED.
 - FENCE TO BE REMOVED & EXTENDED.
 - SAW CUT 12" WIDE NOTCH FOR NEW 3" AND 4" S.S. SUMP LINES TO BE EXTENDED TO RELOCATED OWS, SEE FM 1.05A AND FM1.05B. LEAVE 1/4" OF CURB ABOVE HIGHEST FLOOR.
 - SAW CUT 6" WIDE NOTCH FOR NEW 2 1/2" S.S. SUMP LINE TO RELOCATED OWS. LEAVE 1/4" OF CURB ABOVE HIGHEST FLOOR. SEE FM1.05B (ONLY).

- SCALE:** NOTED
- GENERAL DEMOLITION NOTES:**
- SEE ALSO D400-SERIES DRAWINGS FOR MATERIAL AND EQUIPMENT DEMO PHOTOS FOR MECHANICAL AND ELECTRICAL WORK.
 - THREE WEEKS BEFORE STARTING DEMOLITION, CONTRACTOR SHALL PREPARE A PHASED DEMOLITION/DECONSTRUCTION PLAN FOR APPROVAL AND SUBMIT PROPOSED SALVAGE MATERIAL LIST, DEMOLITION AND OPERATIONAL TRANSITION PLAN, DECONSTRUCTION, AND HAUL-OFF AND DISPOSAL PROCEDURES INCLUDING (E) FUEL SYSTEM PIPING AND EQUIPMENT AND THE (E) CONTROL BUILDING. INCLUDE IN THE PLAN PROCEDURES FOR CAREFUL REMOVAL AND DISPOSITION OF MATERIALS SPECIFIED TO BE SALVAGED, COORDINATION WITH OTHER WORK IN PROGRESS, A DISCONNECTION SCHEDULE OF THE INVOLVED UTILITY SERVICES, AND A DETAILED DESCRIPTION OF METHODS AND EQUIPMENT TO BE USED FOR EACH OPERATION AND OF THE SEQUENCE OF OPERATIONS. IDENTIFY COMPONENTS AND MATERIALS TO BE SALVAGED FOR REUSE OR RECYCLING, SEE NOTES 3 & 8.
 - THE CONTRACTOR SHALL WALK THE PROJECT SITE WITH THE OWNER AND OPERATOR, WHO SHALL IDENTIFY TO THE CONTRACTOR EQUIPMENT THAT SHOULD BE RETURNED TO THE OWNER OR OPERATOR. ALL OTHER EQUIPMENT NOT CLAIMED BY THE OWNER OR OPERATOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR WHO SHALL BE RESPONSIBLE FOR DISPOSING OF SUCH EQUIPMENT ACCORDING TO ALL FEDERAL, STATE AND LOCAL RULES AND REGULATION. PERFORM THIS WALK WITHIN THE 3-WEEK PERIOD ESTABLISHED IN NOTE 2
 - CONTRACTOR SHALL REMOVE RUBBISH AND DEBRIS FROM THE PROJECT SITE; DO NOT ALLOW ACCUMULATIONS INSIDE OR OUTSIDE THE FACILITY, BUILDING, OR ON ANY AIRFIELD PAVEMENTS. CONTRACTOR SHALL REMOVE RUBBISH AND DEBRIS FROM PROPERTY DAILY, UNLESS OTHERWISE DIRECTED, AND SHALL STORE MATERIALS THAT CANNOT BE REMOVED DAILY IN AREAS SPECIFIED BY THE OWNER & AT NO INCREASE IN CONTRACT SUM.
 - CONTRACTOR SHALL NOT DISTURB (E) FACILITY BEYOND EITHER THE EXTENT INDICATED OR NECESSARY TO INSTALL THE SPECIFIED (E) EQUIPMENT OR PROPOSED INSTALLATION OF (N) CONSTRUCTION. PROVIDE TEMPORARY SHORING AND BRACING FOR SUPPORT OF EXISTING SURFACE EQUIPMENT, STRUCTURES, ETC. TO PREVENT SETTLEMENT OR UNDERMINING, AS NECESSARY. CONTRACTOR SHALL PROVIDE PROTECTIVE MEASURES TO CONTROL ACCUMULATION AND MIGRATION OF DUST AND DIRT IN ALL WORK AREAS. REMOVE SNOW, DUST, DIRT, AND DEBRIS FROM WORK AREAS DAILY.
 - CONTRACTOR SHALL PROTECT IN-PLACE ALL (E) EQUIPMENT TO REMAIN AND (E) UTILITIES. IF THE CONTRACTOR DAMAGES ANY (E) EQUIPMENT OR (E) UTILITY IN THE COURSE OF THEIR DEMOLITION WORK, THEN IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO CORRECT/REPAIR THE DAMAGED (E) EQUIPMENT OR (E) UTILITY TO THE OWNER'S SATISFACTION AT NO INCREASE TO THE CONTRACT SUM.
 - BEFORE, DURING AND AFTER THE DEMOLITION AND DECONSTRUCTION WORK, CONTRACTOR SHALL CONTINUOUSLY EVALUATE THE CONDITION OF THE STRUCTURE BEING DEMOLISHED AND DECONSTRUCTED AND TAKE IMMEDIATE ACTION TO PROTECT ALL PERSONNEL WORKING IN AND AROUND THE PROJECT SITE. NO AREA, SECTION, OR COMPONENT OF FLOORS, ROOFS, WALLS, COLUMNS, PILASTERS, OR OTHER STRUCTURAL ELEMENT SHALL BE LEFT STANDING WITHOUT SUFFICIENT BRACING, SHORING, OR LATERAL SUPPORT TO PREVENT COLLAPSE OR FAILURE WHILE WORKMEN REMOVE DEBRIS OR PERFORM OTHER WORK IN THE IMMEDIATE AREA.
 - BEFORE BEGINNING ANY DEMOLITION OR DECONSTRUCTION WORK, CONTRACTOR SHALL REVIEW THE SITE AND EXAMINE THE DRAWINGS AND SPECIFICATIONS TO DETERMINE THE EXTENT OF THE WORK. RECORD EXISTING CONDITIONS IN THE PRESENCE OF THE OWNER AND OPERATOR SHOWING THE CONDITION OF STRUCTURES AND OTHER FACILITIES ADJACENT TO AREAS OF DEMOLITION. CONTRACTOR SHALL PHOTO-DOCUMENT THE (E) CONDITIONS BEFORE DEMOLITION, AND SHALL SAVE THE PHOTOGRAPHS FOR REFERENCE. INCLUDE IN THE RECORD POSSIBLE CONFLICTING ELECTRICAL CONDUITS, UTILITIES, FUELING LINES, ALARMS SYSTEMS, THE LOCATION AND EXTENT OF EXISTING CRACKS AND OTHER DAMAGE AND DESCRIPTION OF SURFACE CONDITIONS THAT EXIST PRIOR TO BEFORE STARTING WORK. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY AND DOCUMENT ALL REQUIRED OUTAGES WHICH WILL BE REQUIRED DURING THE COURSE OF WORK, AND TO NOTE THESE OUTAGES ON THE RECORD DOCUMENT, SEE ALSO NOTE 2.
 - CONTRACTOR SHALL NOT INTERRUPT EXISTING UTILITIES SERVING EITHER OCCUPIED OR FUNCTIONING FACILITIES, EXCEPT WHEN AUTHORIZED BY THE OWNER AND OPERATOR IN ADVANCE. CONTRACTOR SHALL NOT BEGIN DEMOLITION WORK UNTIL ALL UTILITY DISCONNECTIONS HAVE BEEN MADE. SHUT OFF AND CAP UTILITIES FOR FUTURE USE, AS INDICATED.

LEGEND	
	DEMOLITION
	DEMOLITION PHOTO DETAIL REFERENCE SEE D4.00 THRU D4.02

DATE	
REVISIONS	
FUEL FACILITY IMPROVEMENTS PROJECT NAPLES AIRPORT (APF)	
FUEL SYSTEM MECHANICAL & ELECTRICAL DEMOLITION PLAN	
PROJECT NAME	
PROJECT LOCATION	
DRAWING NAME	

ISSUED FOR PERMIT

CURRIER & CO., INC.
 13323 W. WASHINGTON BLVD., SUITE 206
 LOS ANGELES, CA 90066
 (310) 279-5050

SEAL:

JEFFREY E. BURNS
 PROFESSIONAL ENGINEER
 STATE OF FLORIDA
 # 92872 - EXPIRES 2/28/2025

DESIGNED BY: J.E.B.	DATE: 04/02/2024
DRAWN BY: M.G.	PROJ. NO: 23049
APPROVED BY: J.E.B.	FILE NAME: 23049D200
SHEET NUMBER:	D2.00

ISSUED FOR PERMIT



A LOAD/OFFLOAD POSITION #1 - LOOKING NORTH
SCALE: N/A



B LOAD/OFFLOAD POSITION #1 - LOOKING WEST
SCALE: N/A



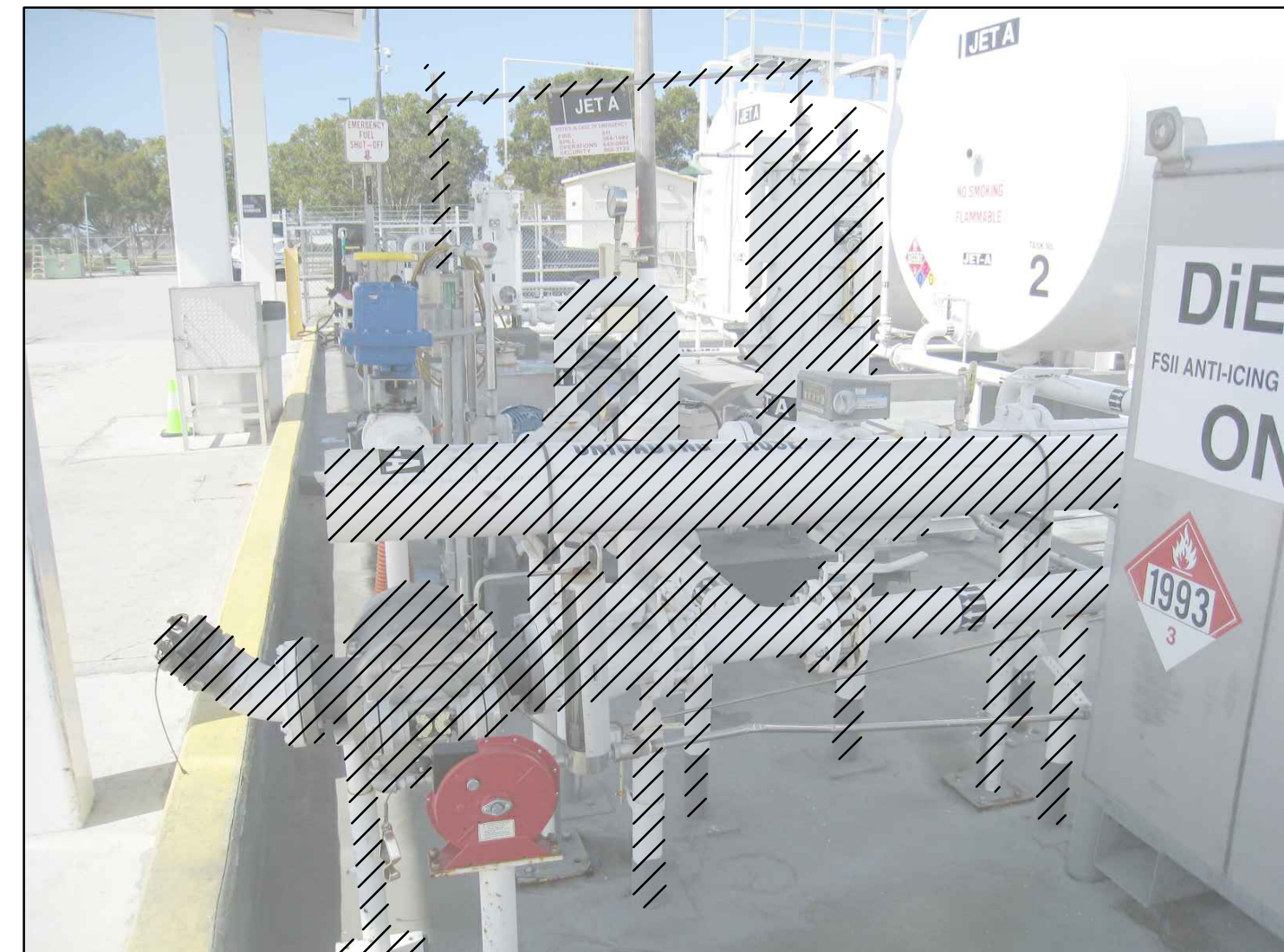
C TANK #1 - LOOKING NORTHWEST
SCALE: N/A



D TANKS #1 & #2 - LOOKING NORTH
SCALE: N/A



E TANK #2 - LOOKING EAST
SCALE: N/A



F LOAD/OFFLOAD POSITION #2 - LOOKING WEST
SCALE: N/A



G FILTER SEPARATOR #2 - LOOKING WEST
SCALE: N/A



H TANKS #6 & #7 MANIFOLD - LOOKING NORTHEAST
SCALE: N/A



I NORTH PUMP AREA AT TANK #7 - LOOKING NORTH
SCALE: N/A

DATE	REVISIONS

CURRIER
ENGINEERING MANAGEMENT CONSULTING

Naples AIRPORT

FUEL FACILITY IMPROVEMENTS PROJECT
NAPLES AIRPORT (APF)

**JET-A SYSTEM
DEMOLITION DETAILS**

PROJECT NAME
PROJECT LOCATION
DRAWING NAME

ISSUED FOR PERMIT

CURRIER & CO., INC.
13323 W. WASHINGTON BLVD., SUITE 206
LOS ANGELES, CA 90066
(310) 279-5050

SEAL:

JEFFREY E. BURNS
LICENSED PROFESSIONAL ENGINEER
STATE OF FLORIDA
No. 92872
EXPIRES 2/28/2025

JEFFREY E. BURNS
PROFESSIONAL ENGINEER
STATE OF FLORIDA
92872 - EXPIRES 2/28/2025

DESIGNED BY: J.E.B. DATE: 04/02/2024
DRAWN BY: M.G. PROJ. NO: 23049
APPROVED BY: J.E.B. FILE NAME: 23049D400

SHEET NUMBER:
D4.00

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(E) PIPE AND SUPPORTS TO BE TEMPORARILY RELOCATED TO SUIT RELOCATED OWS, SEE FM1.05A, FM1.05B & FM2.10

O (E) OWS
SCALE: N/A



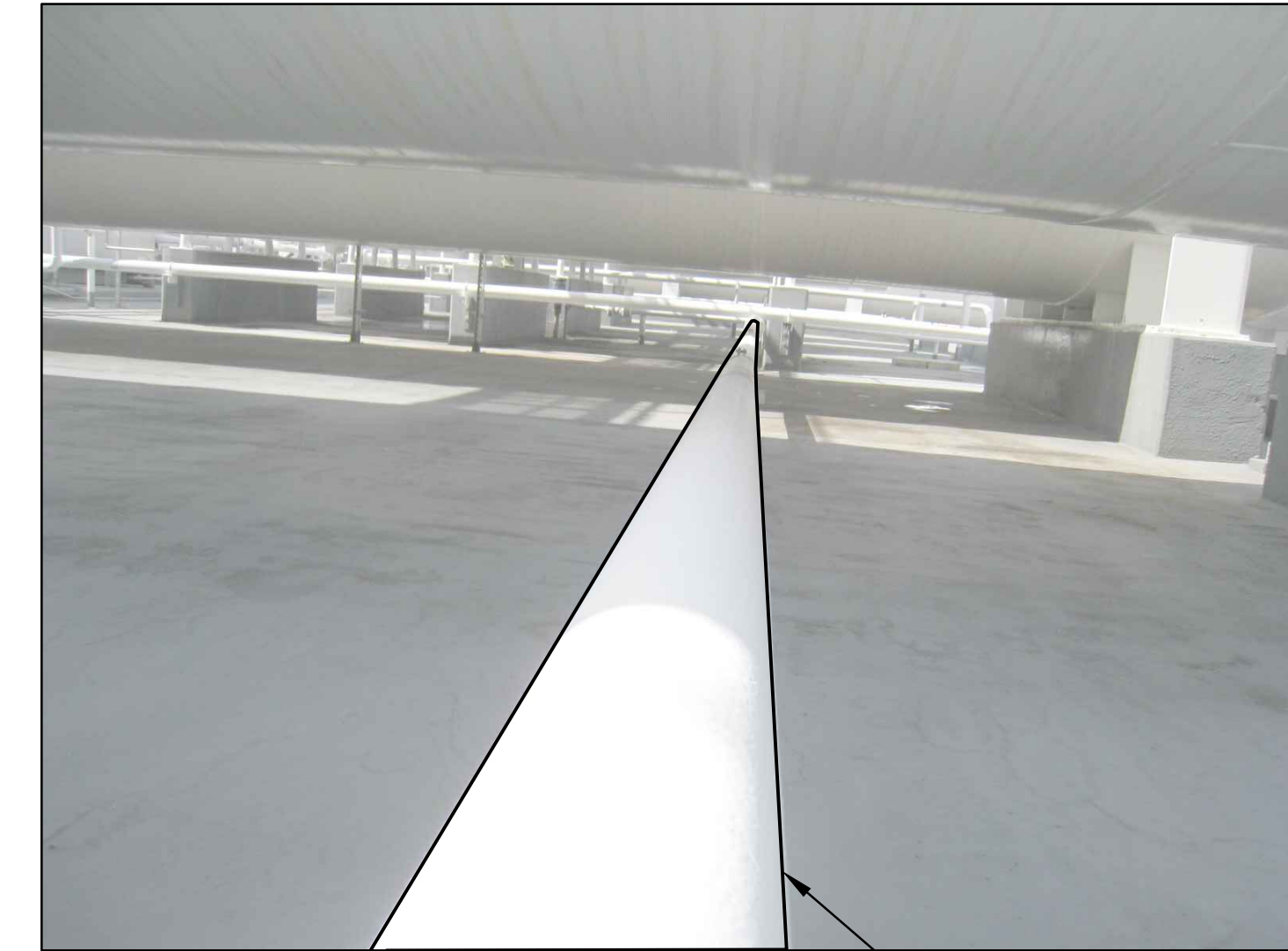
(E) PIPE AND SUPPORTS TO BE TEMPORARILY RELOCATED TO SUIT RELOCATED OWS, SEE FM1.05A, FM1.05B & FM2.10

P (E) OWS PIPING
SCALE: N/A



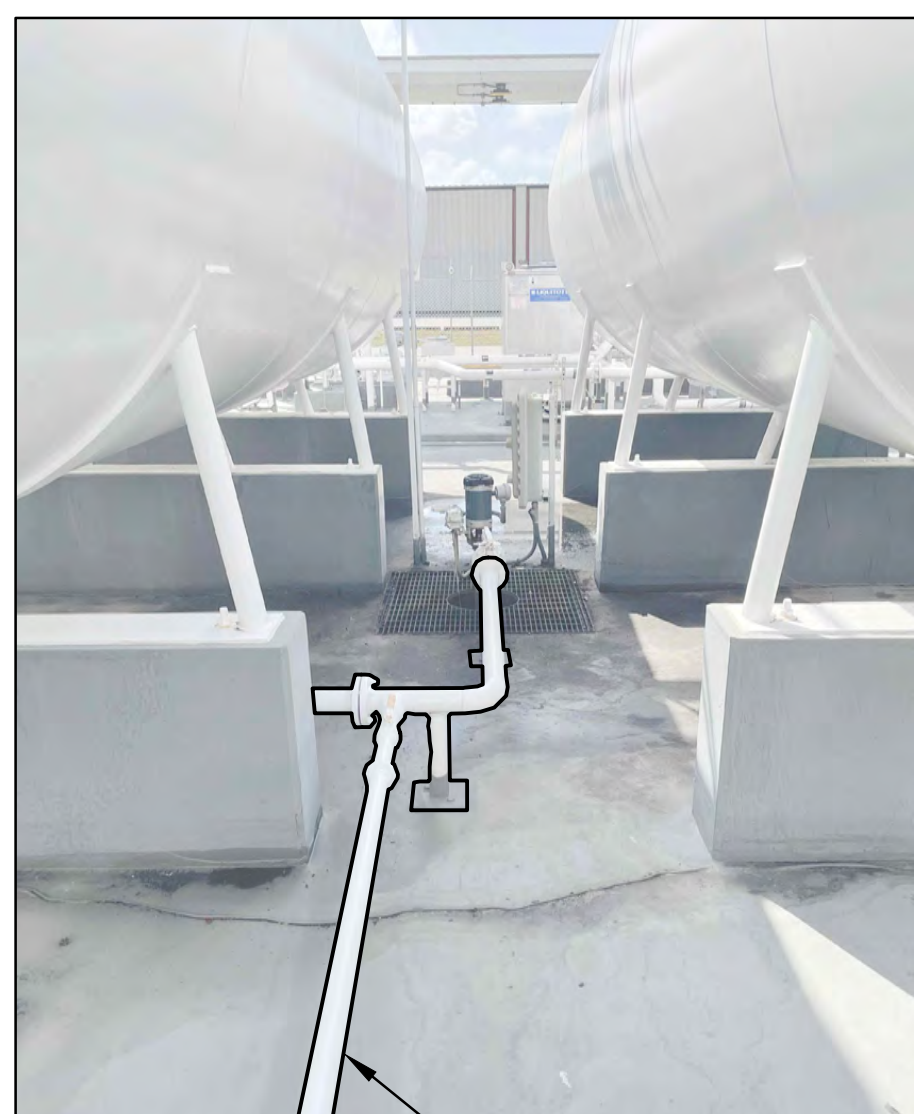
CONTRACTOR SHALL DEMO THE COMPLETE (E) U/G OWS DISCHARGE PIPE

Q (E) OWS PIPING
SCALE: N/A



(E) PIPE AND SUPPORTS TO BE TEMPORARILY RELOCATED TO SUIT RELOCATED OWS, SEE FM1.05A, FM1.05B & FM2.10

R (E) OWS PIPING
SCALE: N/A



(E) PIPE AND SUPPORTS TO BE TEMPORARILY RELOCATED TO SUIT RELOCATED OWS, SEE FM1.05A, FM1.05B & FM2.10

S (E) OWS PIPING
SCALE: N/A



T (E) EYEWASH STATION AT TANK #6
SCALE: N/A



U (E) DISPENSER
SCALE: N/A

REVISIONS	DATE

CURRIER
ENGINEERING MANAGEMENT CONSULTING

Naples AIRPORT

FUEL FACILITY IMPROVEMENTS PROJECT
NAPLES AIRPORT (APF)
OWS SYSTEM
DEMOLITION DETAILS

PROJECT NAME
PROJECT LOCATION
DRAWING NAME

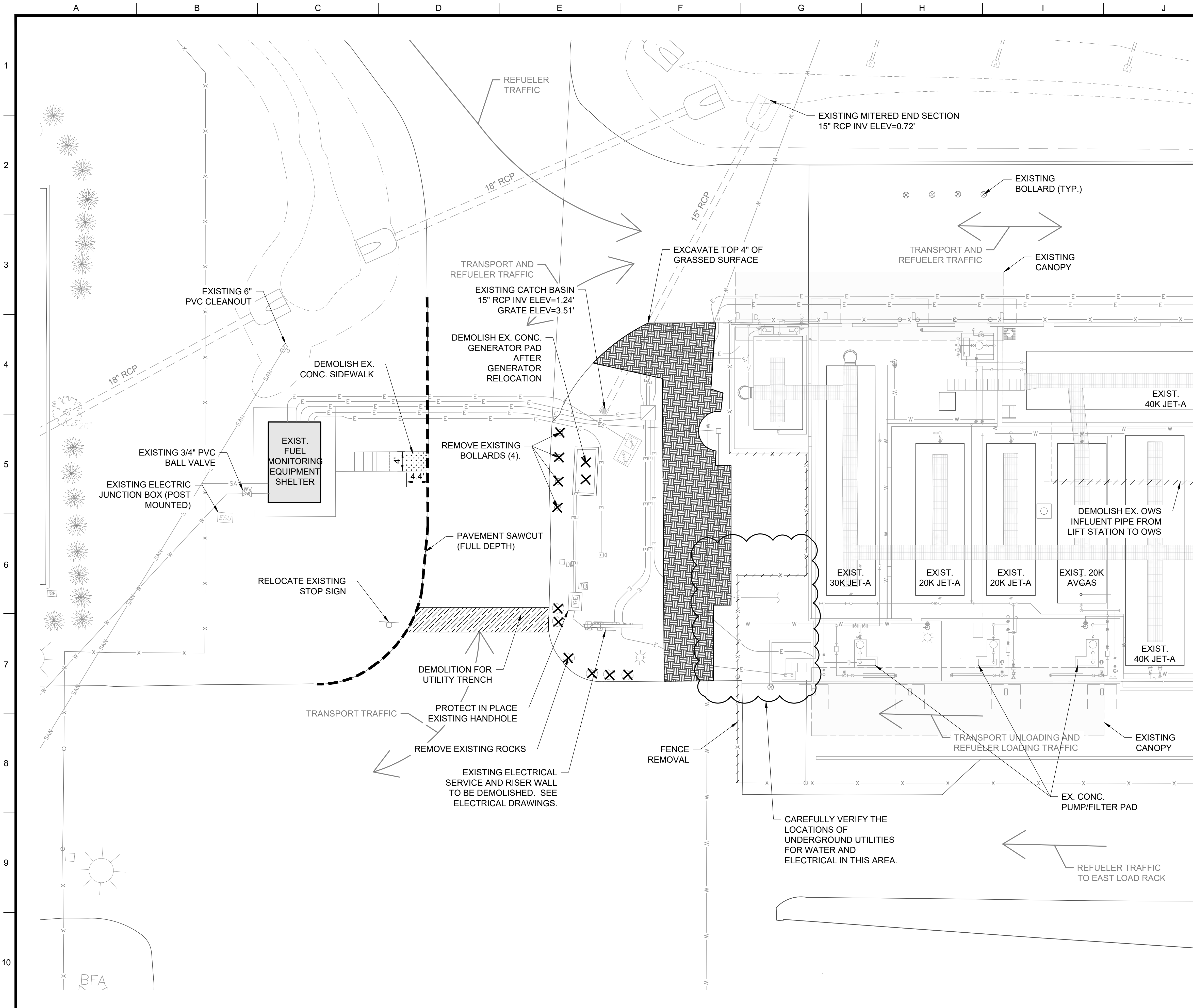
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CURRIER & CO, INC.
13323 W. WASHINGTON BLVD., SUITE 206
LOS ANGELES, CA 90066
(310) 279-5050

SEAL:
JEFFREY E. BURNS
PROFESSIONAL ENGINEER
STATE OF FLORIDA
92872 - EXPIRES 2/28/2025

DESIGNED BY: J.E.B. DATE: 04/02/2024
DRAWN BY: M.G. PROJ. NO: 23049
APPROVED BY: J.E.B. FILE NAME: 23049D401
SHEET NUMBER: D4.02

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LEGEND:

- EXISTING PAVEMENT
- ▭ EXISTING BUILDINGS
- X— EXISTING FENCE
- E— EXISTING ELECTRIC
- ☀ EXISTING LIGHT
- W— EXISTING WATER LINE
- //// ITEMS TO BE REMOVED
- - - PAVEMENT SAW-CUT
- ▨ FULL DEPTH PAVEMENT REMOVAL
- ▩ BITUMINOUS SURFACE REMOVAL (1.5" NOMINAL SURFACE DEPTH)
- ▧ UTILITY TRENCH

MATCH LINE SHEET C1.02

- NOTE:**
- SEE C1.02 FOR ADDITIONAL DEMOLITION PLANS
 - SEE C3.01 FOR DIMENSIONS AND LIMITS. DEMOLITION LIMITS TO MATCH EXISTING PAVEMENT JOINTS AND MATERIAL CHANGES.

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DATE	REVISIONS

FUEL FARM IMPROVEMENTS PROJECT	NAPLES AIRPORT (APF)	EXISTING SITE AND DEMOLITION PLAN - SHEET 1 OF 2
PROJECT NAME	PROJECT LOCATION	DRAWING NAME

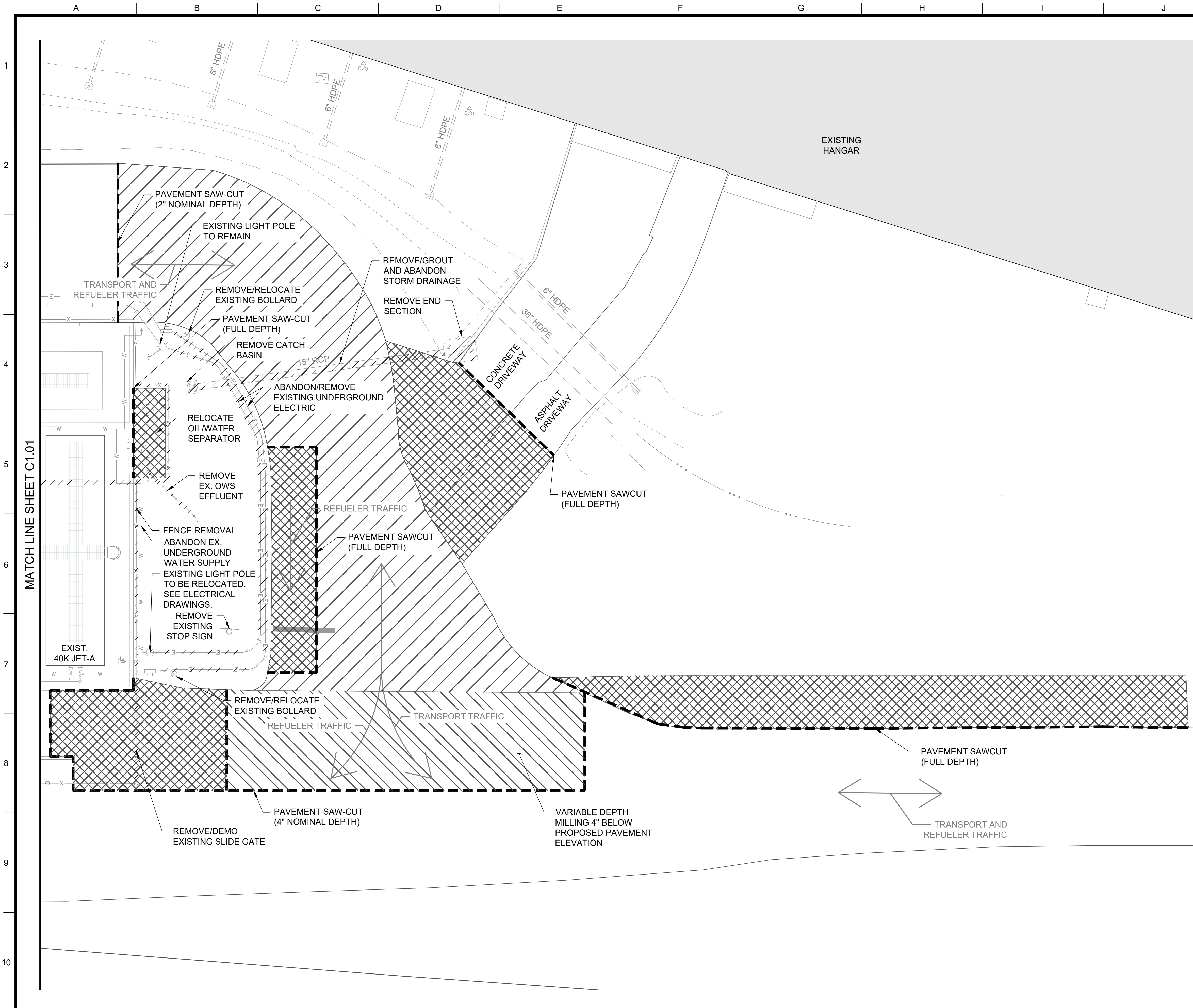
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Hanson Professional Services Inc.
Offices Nationwide
FL CA Lic. No. 7961

PROFESSIONAL ENGINEER
STATE OF FLORIDA

DESIGNED BY: YY	DATE: 04/02/2024
DRAWN BY: YY	PROJ. NO: 22A0138_02
APPROVED BY: CAR	FILE NAME: C1.01
SHEET NUMBER:	C1.01

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DATE: _____

REVISIONS: _____

10 0 10 20

LEGEND:

- EXISTING PAVEMENT
- █ EXISTING BUILDINGS
- x- EXISTING FENCE
- E- EXISTING ELECTRIC
- ☀ EXISTING LIGHT
- W- EXISTING WATER LINE
- //// ITEMS TO BE REMOVED
- PAVEMENT SAW-CUT
- ▨ FULL DEPTH PAVEMENT REMOVAL
- ▩ BITUMINOUS SURFACE REMOVAL (1.5" NOMINAL SURFACE DEPTH)
- ▧ UTILITY TRENCH

- NOTE:**
- SEE C1.01 FOR ADDITIONAL DEMOLITION PLANS
 - SEE C3.02 FOR DIMENSIONS AND LIMITS. DEMOLITION LIMITS TO MATCH EXISTING PAVEMENT JOINTS AND MATERIAL CHANGES.

CURRIER ENGINEERING MANAGEMENT CONSULTING

NAPLES AIRPORT

FUEL FARM IMPROVEMENTS PROJECT

NAPLES AIRPORT (APF)

EXISTING SITE AND DEMOLITION PLAN - SHEET 2 OF 2

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Engineering | Planning | Asset Services
Hanson Professional Services Inc.
Offices Nationwide
FL CA Lic. No. 7961

SEAL:

CHRISTOPHER A. REYNOLDS
LICENSE
No. 88657
STATE OF FLORIDA
PROFESSIONAL ENGINEER
PROFESSIONAL ENGINEER
STATE OF FLORIDA

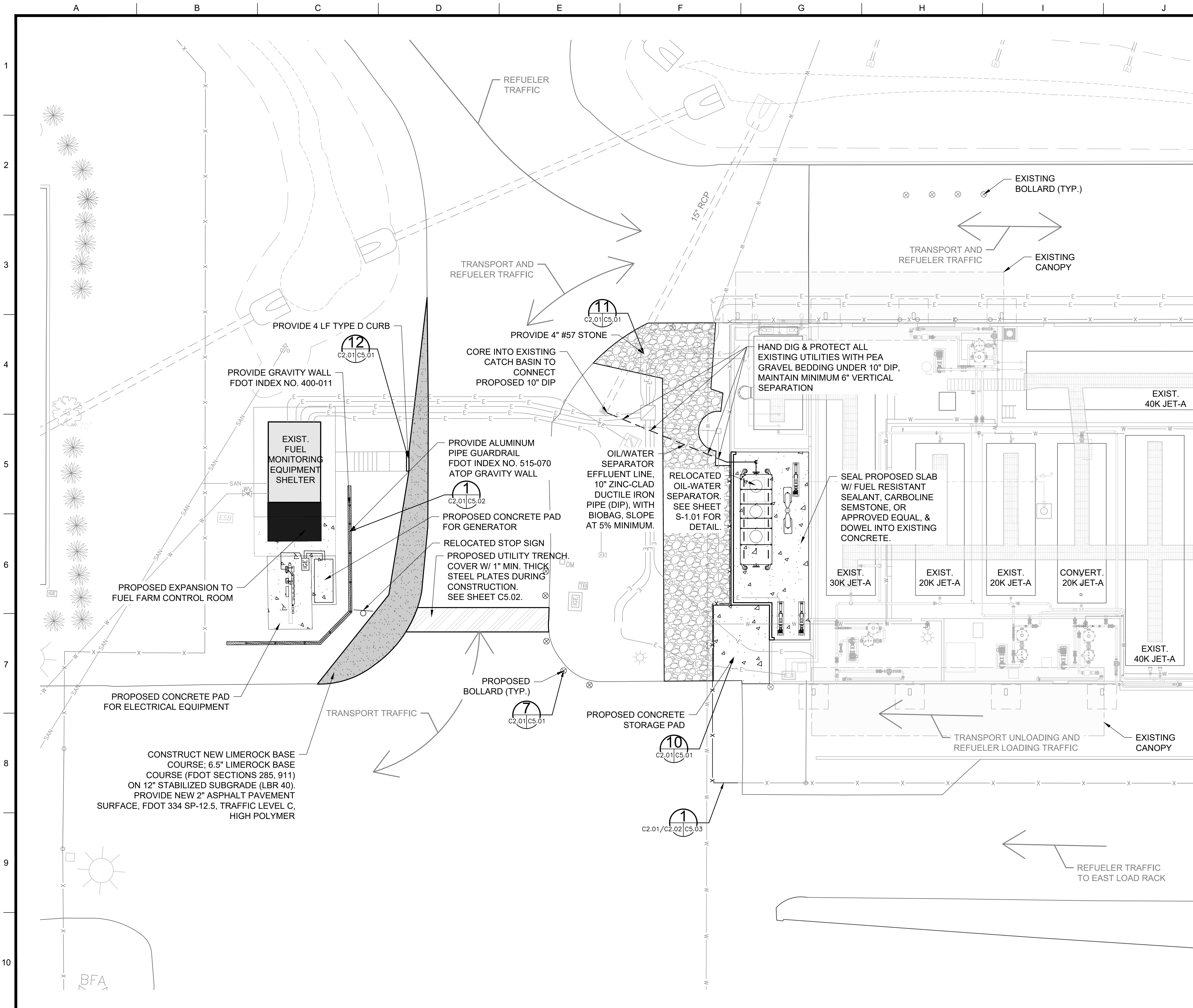
DESIGNED BY: YY DATE: 04/02/2024
DRAWN BY: YY PROJ. NO.: 22A0138_02
APPROVED BY: CAR FILE NAME: C1.01
SHEET NUMBER:

C1.02

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MATCH LINE SHEET C2.02

LEGEND:

- EXISTING PAVEMENT
- ▭ EXISTING BUILDINGS
- X- EXISTING FENCE
- X- PROPOSED FENCE
- E- EXISTING ELECTRIC
- ☀ EXISTING LIGHT
- W- EXISTING WATER LINE
- ▭ PROPOSED 2" ASPHALT PAVEMENT
- ▭ PROPOSED 4" ASPHALT PAVEMENT
- ▭ PROPOSED CONCRETE PAD
- ▭ NEW 6.5" FDOT LIMEROCK BASE COURSE ON 12" STABILIZED SUBGRADE
- ▭ PROPOSED UTILITY TRENCH

SECURITY AND ACCESS NOTES:

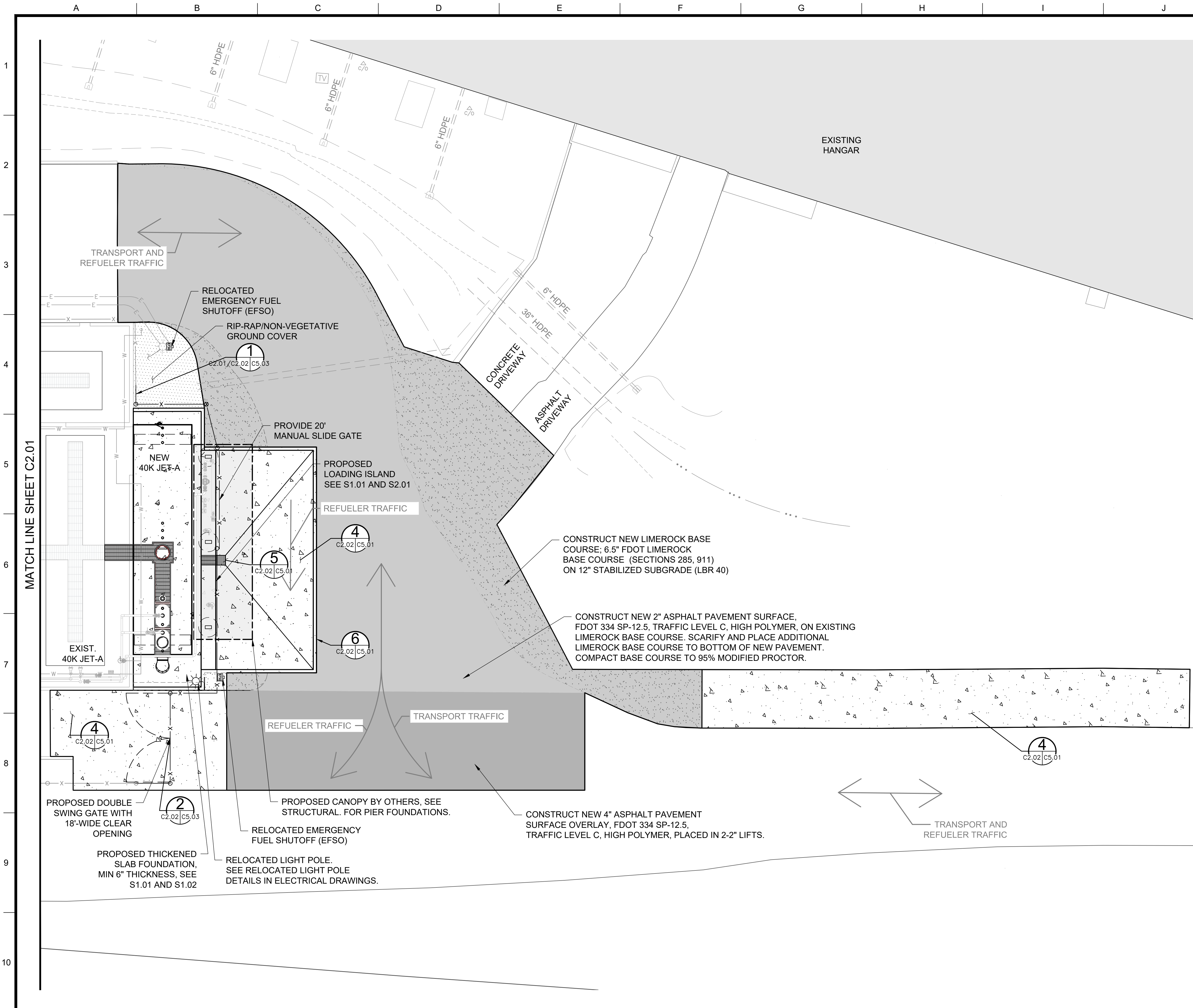
- THE CONTRACTOR IS REQUIRED TO HAVE BADGED PERSONNEL COMPLETE A TRAINING PROGRAM CONDUCTED BY THE AIRPORT FOR VEHICLE OPERATIONS ON THE AIRSIDE. ADDITIONAL MOVEMENT AREA DRIVER TRAINING IS REQUIRED IF CONSTRUCTION IS TAKING PLACE WITHIN THE MOVEMENT AREA. ADDITIONALLY, ALL PERSONNEL THAT WILL NOT BE BADGED BUT WILL ACCESS THE AOA UNDER ESCORT MUST REVIEW THE SAFETY AND SECURITY "DOS AND DON'TS" AND SIGN THAT THEY HAVE REVIEWED AND UNDERSTAND THEM. THE DOCUMENT MUST BE SUBMITTED TO THE NAA OPERATIONS DEPARTMENT.

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DATE	
REVISIONS	
PROJECT NAME	FUEL FARM IMPROVEMENTS PROJECT
PROJECT LOCATION	NAPLES AIRPORT (APF)
DRAWING NAME	PROPOSED SITE PLAN - SHEET 1 OF 2
ISSUED FOR PERMIT	
<p style="font-size: small; margin: 0;">Hanson Professional Services Inc. Offices Nationwide FL CA Lic. No. 7961</p>	
<p style="font-size: x-small; margin: 0;">PROFESSIONAL ENGINEER STATE OF FLORIDA</p>	
DESIGNED BY: YY	DATE: 04/02/2024
DRAWN BY: YY	PROJ. NO.: 22A0138_02
APPROVED BY: CAR	FILE NAME: C2.01
SHEET NUMBER:	
C2.01	

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N

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LEGEND:

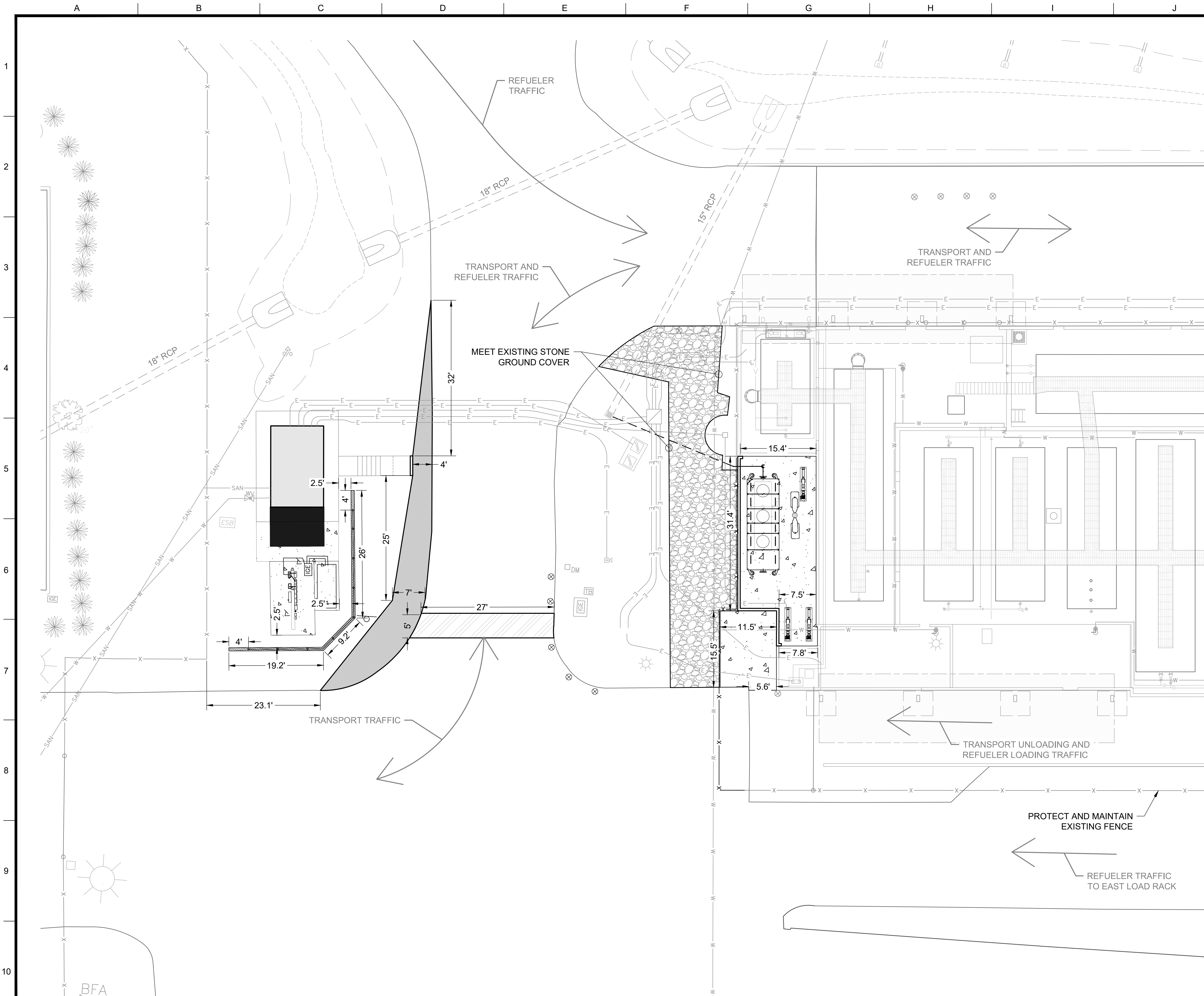
- EXISTING PAVEMENT
- ▭ EXISTING BUILDINGS
- X- EXISTING FENCE
- X- PROPOSED FENCE
- E- EXISTING ELECTRIC
- ☀ EXISTING LIGHT
- W- EXISTING WATER LINE
- ▭ PROPOSED 2" ASPHALT PAVEMENT
- ▭ PROPOSED 4" ASPHALT PAVEMENT
- ▭ PROPOSED CONCRETE PAD
- ▭ NEW 6.5" FDOT LIMEROCK BASE COURSE ON 12" STABILIZED SUBGRADE
- ▭ PROPOSED UTILITY TRENCH

DATE									
REVISIONS									
FUEL FARM IMPROVEMENTS PROJECT		NAPLES AIRPORT (APF)		PROPOSED SITE PLAN - SHEET 2 OF 2					
PROJECT NAME	PROJECT LOCATION	DRAWING NAME							
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SEAL:									
PROFESSIONAL ENGINEER STATE OF FLORIDA									
DESIGNED BY: YY	DATE: 04/02/2024								
DRAWN BY: YY	PROJ. NO.: 22A0138_02								
APPROVED BY: CAR	FILE NAME: C2.01								
SHEET NUMBER:		C2.02							

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N

10 0 10 20

LEGEND:

- EXISTING PAVEMENT
- ▭ EXISTING BUILDINGS
- X- EXISTING FENCE
- X- PROPOSED FENCE
- E- EXISTING ELECTRIC
- ☀ EXISTING LIGHT
- W- EXISTING WATER LINE
- ▨ #57 STONE GROUND COVER
- ▩ PROPOSED 2" ASPHALT PAVEMENT
- PROPOSED 4" ASPHALT PAVEMENT
- ▤ PROPOSED CONCRETE PAD
- ▧ PROPOSED GRAVITY WALL
- ▨ PROPOSED UTILITY TRENCH

NOTE:

- CONTRACTOR TO FIELD VERIFY EXISTING LAYOUT. LIMITS ARE INTENDED TO MATCH EXISTING PAVEMENT JOINTS AND MATERIAL CHANGES.
- SEE C1.01 FOR DEMOLITION PLANS. PAVING AND GEOMETRY LIMITS TO MATCH DEMOLITION LIMITS.
- PHASE CONSTRUCTION TO MAINTAIN REFUELER AND TRANSPORT ACCESS/EGRESS.

SITE ADDRESS NOTE:

- SITE ADDRESS FOR THE FUEL FARM IS 2705 FUEL FARM ROAD, NAPLES, FL 34104.

FLOOD ZONE AREA NOTES:

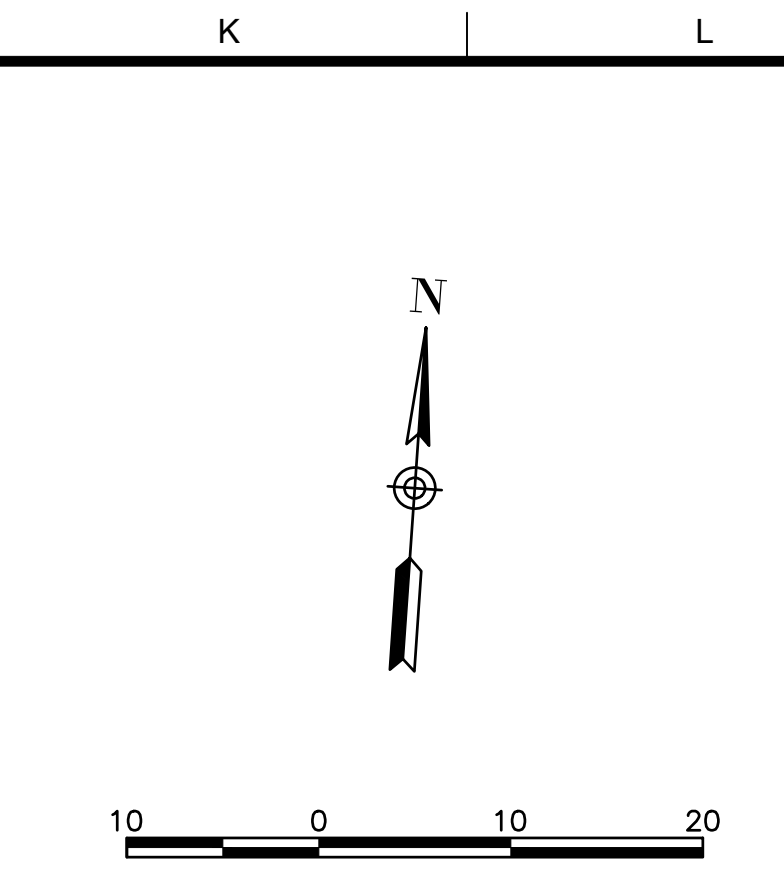
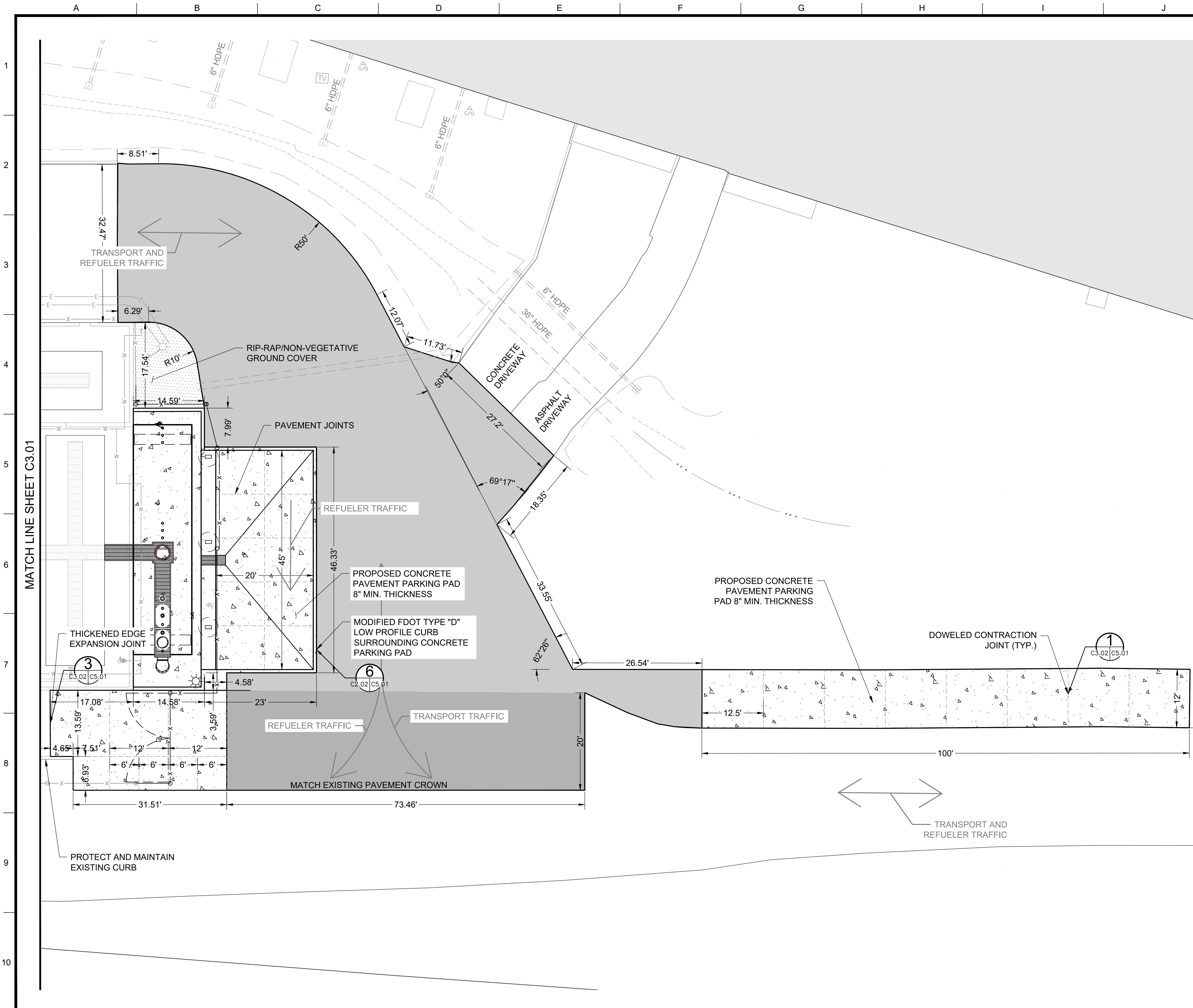
- THE SITE IS LOCATED IN A SPECIAL FLOOD HAZARD AREA - AE 8.0 NAVD.

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DATE									
REVISIONS									
FUEL FARM IMPROVEMENTS PROJECT		NAPLES AIRPORT (APF)		PAVING AND GEOMETRY PLAN - SHEET 1 OF 2					
PROJECT NAME	PROJECT LOCATION	ISSUED FOR PERMIT							
DESIGNED BY: YY	DATE: 04/02/2024								
DRAWN BY: YY	PROJ. NO.: 22A0138_02								
APPROVED BY: CAR	FILE NAME: C3.01								
SHEET NUMBER:	C3.01								

ISSUED FOR PERMIT



- LEGEND:**
- EXISTING PAVEMENT
 - ▭ EXISTING BUILDINGS
 - x- EXISTING FENCE
 - x- PROPOSED FENCE
 - E- EXISTING ELECTRIC
 - ☀ EXISTING LIGHT
 - W- EXISTING WATER LINE
 - ▨ #57 STONE GROUND COVER
 - ▩ PROPOSED 2" ASPHALT PAVEMENT
 - PROPOSED 4" ASPHALT PAVEMENT
 - ▧ PROPOSED CONCRETE PAD

- NOTE:**
- CONTRACTOR TO FIELD VERIFY EXISTING LAYOUT. LIMITS ARE INTENDED TO MATCH EXISTING PAVEMENT JOINTS AND MATERIAL CHANGES.
 - SEE C1.02 FOR DEMOLITION PLANS. PAVING AND GEOMETRY LIMITS TO MATCH DEMOLITION LIMITS.
 - PHASE CONSTRUCTION TO MAINTAIN REFUELER AND TRANSPORT ACCESS/EGRESS.

SITE ADDRESS NOTE:

- SITE ADDRESS FOR THE FUEL FARM IS 2705 FUEL FARM ROAD, NAPLES, FL 34104.

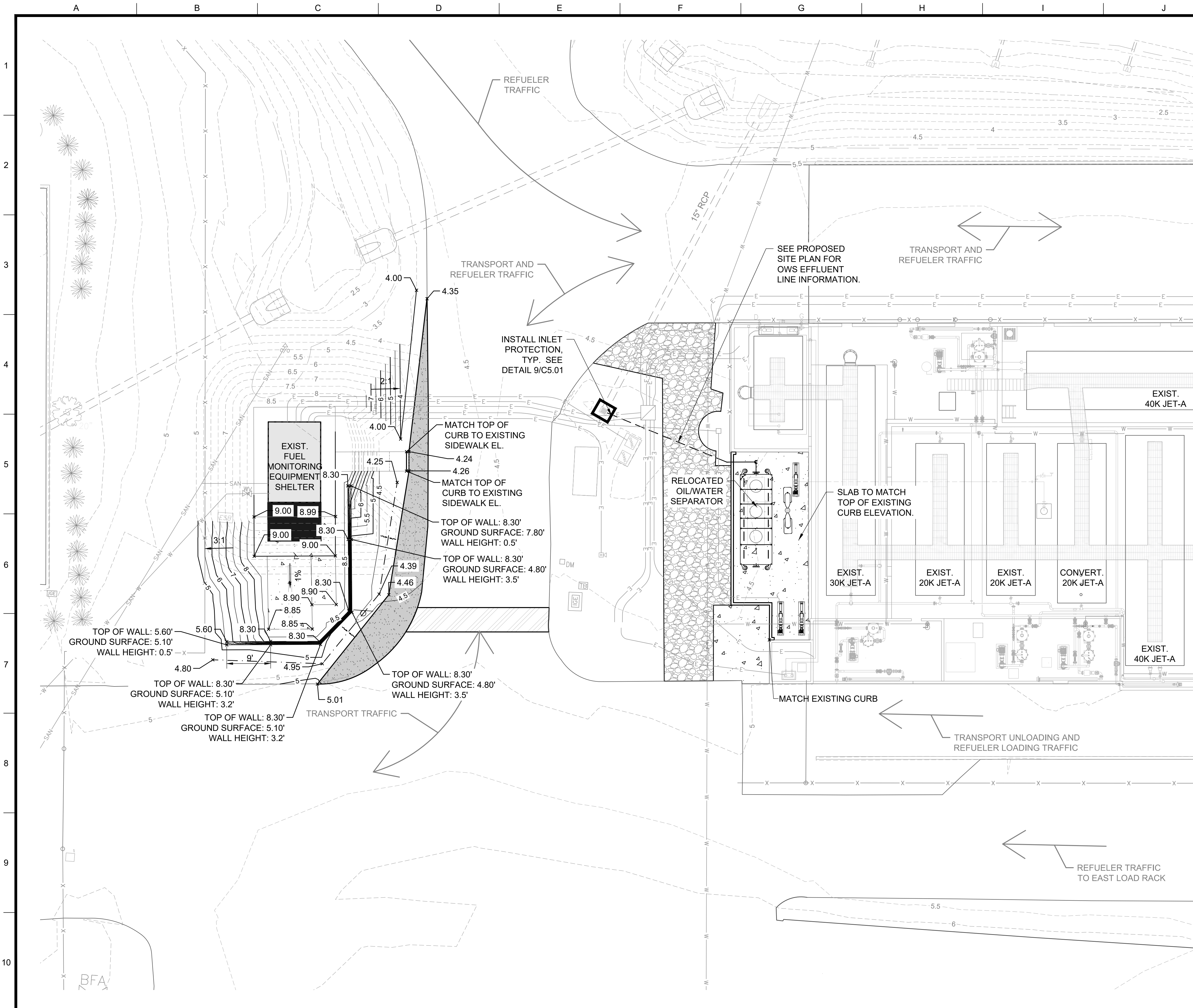
FLOOD ZONE AREA NOTES:

- THE SITE IS LOCATED IN A SPECIAL FLOOD HAZARD AREA - AE 8.0 NAVD.

This item has been digitally signed and sealed by Christopher A. Reynolds, PE on 04/02/2024.
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DATE							
REVISIONS							
FUEL FARM IMPROVEMENTS PROJECT NAPLES AIRPORT (APF)		PAVING AND GEOMETRY PLAN - SHEET 2 OF 2					
PROJECT NAME	PROJECT LOCATION	ISSUED FOR PERMIT					
DESIGNED BY: YY	DATE: 04/02/2024						
DRAWN BY: YY	PROJ. NO.: 22A0138_02						
APPROVED BY: CAR	FILE NAME: C3.01						
SHEET NUMBER:	C3.02						

ISSUED FOR PERMIT



N

10 0 10 20

LEGEND:

- EXISTING PAVEMENT
- ▭ EXISTING BUILDINGS
- X- EXISTING FENCE
- X- PROPOSED FENCE
- E- EXISTING ELECTRIC
- ☀ EXISTING LIGHT
- W- EXISTING WATER LINE
- ▨ PROPOSED 2" ASPHALT PAVEMENT
- ▩ PROPOSED 4" ASPHALT PAVEMENT
- ▤ PROPOSED CONCRETE PAD
- ▧ NEW 6.5" FDOT LIMEROCK BASE COURSE ON 12" STABILIZED SUBGRADE
- ▨ PROPOSED GRAVITY WALL

NOTE:

- CONTRACTOR TO FIELD VERIFY ALL EXISTING ELEVATIONS. CONTRACTOR TO MAINTAIN A 1% CROSS SLOPE ACROSS PROPOSED PORTLAND CEMENT CONCRETE PAVEMENT. ASPHALT SURFACES MUST DRAIN WITH FREELY WITHOUT PONDING.
- DISTURBED GRASSED AREAS SHALL BE RE-ESTABLISHED WITH SOD. STAKE SOD ON ALL SLOPES 3:1 AND STEEPER.
- SEE C4.02 FOR ADDITIONAL NOTES.

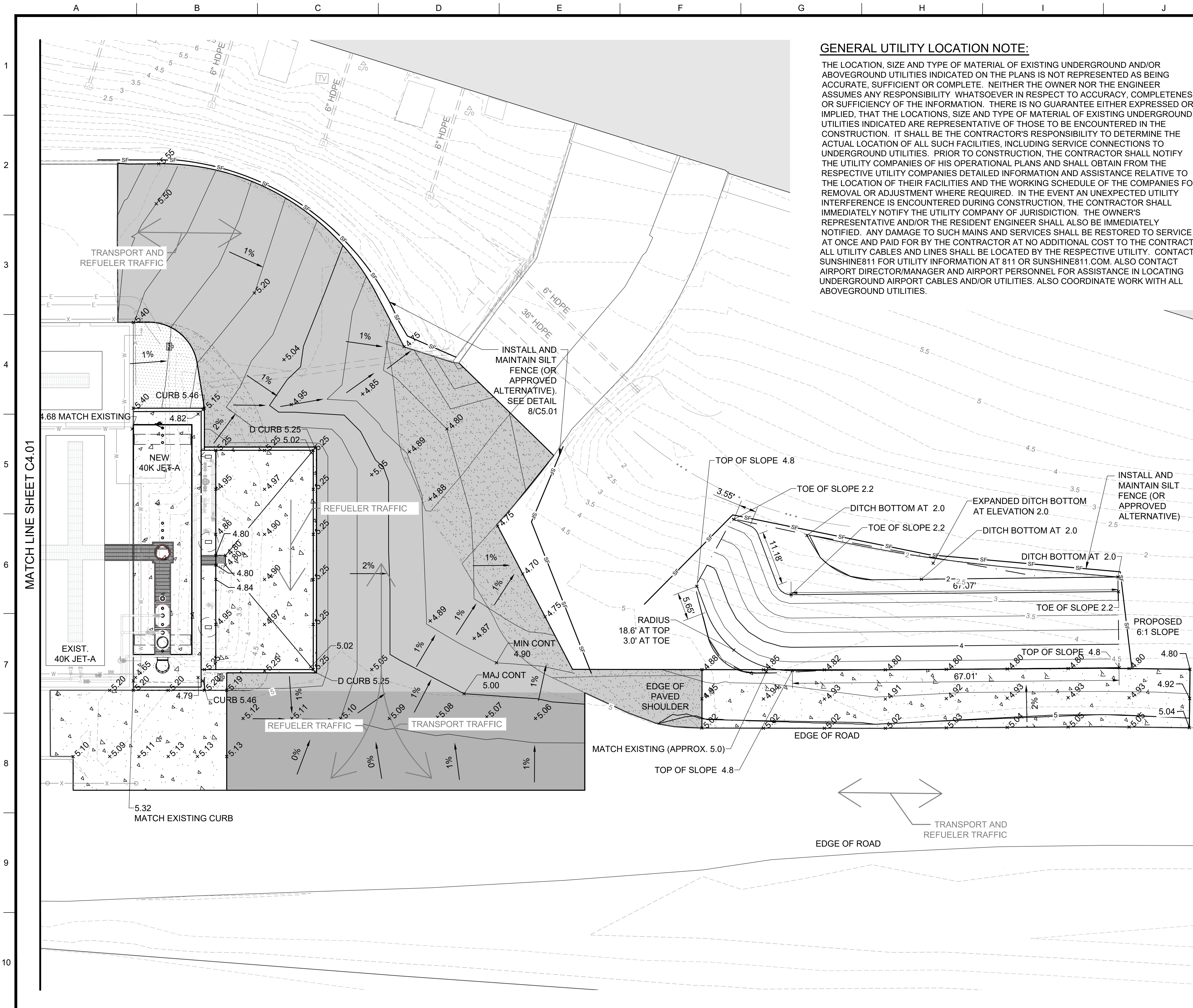
MATCH LINE SHEET C4.02

DATE									
REVISIONS									
FUEL FARM IMPROVEMENTS PROJECT		NAPLES AIRPORT (APF)		PROPOSED GRADING AND DRAINAGE PLAN - SHEET 1					
PROJECT NAME	PROJECT LOCATION	DRAWING NAME							
ISSUED FOR PERMIT									
Hanson Professional Services Inc. Offices Nationwide FL CA Lic. No. 7961									
SEAL:									
PROFESSIONAL ENGINEER STATE OF FLORIDA									
DESIGNED BY: YY	DATE: 04/02/2024								
DRAWN BY: YY	PROJ. NO: 22A0138_02								
APPROVED BY: CAR	FILE NAME: C4.01								
SHEET NUMBER:									
C4.01									

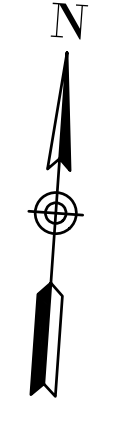
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GENERAL UTILITY LOCATION NOTE:
 THE LOCATION, SIZE AND TYPE OF MATERIAL OF EXISTING UNDERGROUND AND/OR ABOVEGROUND UTILITIES INDICATED ON THE PLANS IS NOT REPRESENTED AS BEING ACCURATE, SUFFICIENT OR COMPLETE. NEITHER THE OWNER NOR THE ENGINEER ASSUMES ANY RESPONSIBILITY WHATSOEVER IN RESPECT TO ACCURACY, COMPLETENESS, OR SUFFICIENCY OF THE INFORMATION. THERE IS NO GUARANTEE EITHER EXPRESSED OR IMPLIED, THAT THE LOCATIONS, SIZE AND TYPE OF MATERIAL OF EXISTING UNDERGROUND UTILITIES INDICATED ARE REPRESENTATIVE OF THOSE TO BE ENCOUNTERED IN THE CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES, INCLUDING SERVICE CONNECTIONS TO UNDERGROUND UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES OF HIS OPERATIONAL PLANS AND SHALL OBTAIN FROM THE RESPECTIVE UTILITY COMPANIES DETAILED INFORMATION AND ASSISTANCE RELATIVE TO THE LOCATION OF THEIR FACILITIES AND THE WORKING SCHEDULE OF THE COMPANIES FOR REMOVAL OR ADJUSTMENT WHERE REQUIRED. IN THE EVENT AN UNEXPECTED UTILITY INTERFERENCE IS ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY COMPANY OF JURISDICTION. THE OWNER'S REPRESENTATIVE AND/OR THE RESIDENT ENGINEER SHALL ALSO BE IMMEDIATELY NOTIFIED. ANY DAMAGE TO SUCH MAINS AND SERVICES SHALL BE RESTORED TO SERVICE AT ONCE AND PAID FOR BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT. ALL UTILITY CABLES AND LINES SHALL BE LOCATED BY THE RESPECTIVE UTILITY. CONTACT SUNSHINE811 FOR UTILITY INFORMATION AT 811 OR SUNSHINE811.COM. ALSO CONTACT AIRPORT DIRECTOR/MANAGER AND AIRPORT PERSONNEL FOR ASSISTANCE IN LOCATING UNDERGROUND AIRPORT CABLES AND/OR UTILITIES. ALSO COORDINATE WORK WITH ALL ABOVEGROUND UTILITIES.



- LEGEND:**
- EXISTING PAVEMENT
 - ▭ EXISTING BUILDINGS
 - x- EXISTING FENCE
 - x- PROPOSED FENCE
 - E- EXISTING ELECTRIC
 - ☀ EXISTING LIGHT
 - W- EXISTING WATER LINE
 - ▭ PROPOSED 2" ASPHALT PAVEMENT
 - ▭ PROPOSED 4" ASPHALT PAVEMENT
 - ▭ PROPOSED CONCRETE PAD
 - ▭ NEW 6.5" FDOT LIMEROCK BASE COURSE ON 12" STABILIZED SUBGRADE

- NOTES:**
- COORDINATE ALL WORK WITH AIRPORT OPERATIONS TO MINIMIZE DOWNTIME TO EXISTING FUEL FACILITY. AIRPORT MANAGEMENT SHALL, AT ALL TIMES, HAVE JURISDICTION OVER INTERRUPTIONS TO FUEL FACILITY OPERATIONS.
 - PROVIDE CONSTRUCTION RUNOFF CONTROL IN ACCORDANCE WITH CHAPTER 5 OF THE FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL.
 - VERIFY EXISTING CONTAINMENT AREA PAD GRADES AND MAKE MINOR ADJUSTMENTS AS REQUIRED TO PROVIDE POSITIVE DRAINAGE TOWARDS EXISTING SUMPS. NOTIFY ENGINEER OF ANY DISCREPANCIES.
 - CONTRACTOR TO FIELD VERIFY ALL EXISTING ELEVATIONS. CONTRACTOR TO MATCH EXISTING GRADES AT LIMITS OF DISTURBANCE. VOLUME OF PROPOSED DRAINAGE DITCH WIDENING TO INCREASE DITCH CAPACITY BY A MINIMUM OF 51 CYD TO COMPENSATE FOR PROPOSED GRADE CHANGES AND INCREASED IMPERVIOUS AREA.
 - DISTURBED GRASSED AREAS SHALL BE RE-ESTABLISHED WITH SOD.

SITE ADDRESS NOTE:

- SITE ADDRESS FOR THE FUEL FARM IS 2705 FUEL FARM ROAD, NAPLES, FL 34104.

FLOOD ZONE AREA NOTES:

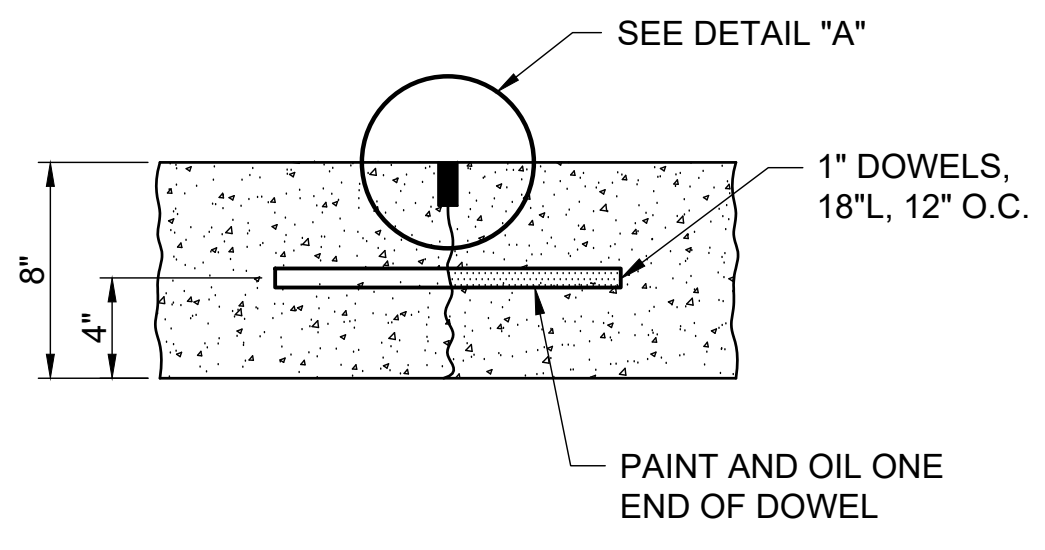
- THE SITE IS LOCATED IN A SPECIAL FLOOD HAZARD AREA - AE 8.0 NAVD.

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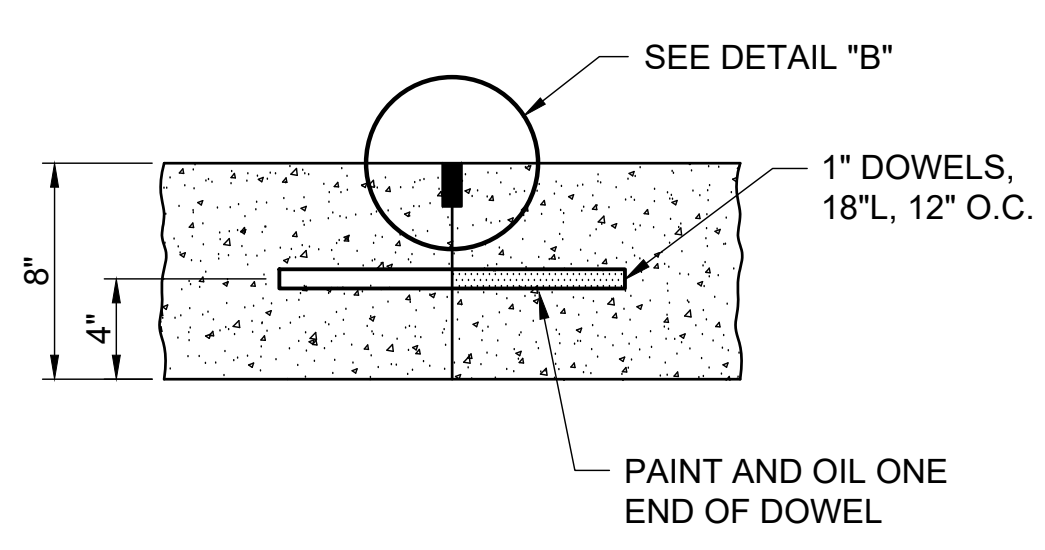
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DATE									
REVISIONS									
FUEL FARM IMPROVEMENTS PROJECT NAPLES AIRPORT (APF)					PROPOSED GRADING AND DRAINAGE PLAN - SHEET 2				
PROJECT NAME	PROJECT LOCATION	DRAWING NAME							
ISSUED FOR PERMIT									
Hanson Professional Services Inc. Offices Nationwide FL CA Lic. No. 7961									
SEAL:									
PROFESSIONAL ENGINEER STATE OF FLORIDA									
DESIGNED BY: YY	DATE: 04/02/2024								
DRAWN BY: YY	PROJ. NO: 22A0138_02								
APPROVED BY: CAR	FILE NAME: C4.01								
SHEET NUMBER:	C4.02								

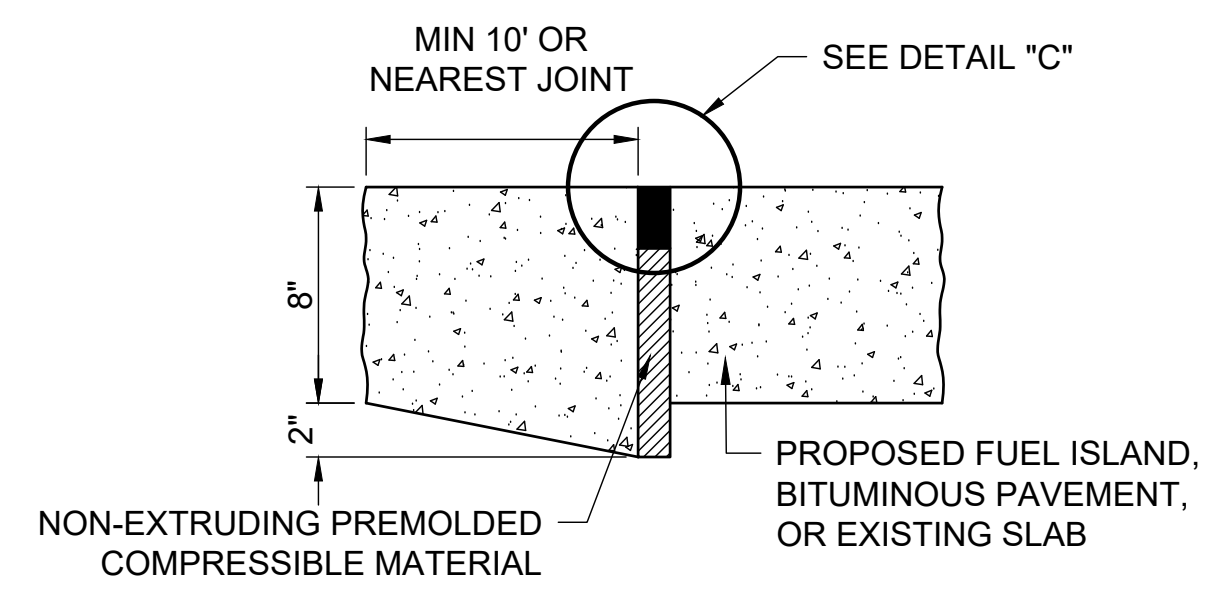
ISSUED FOR PERMIT



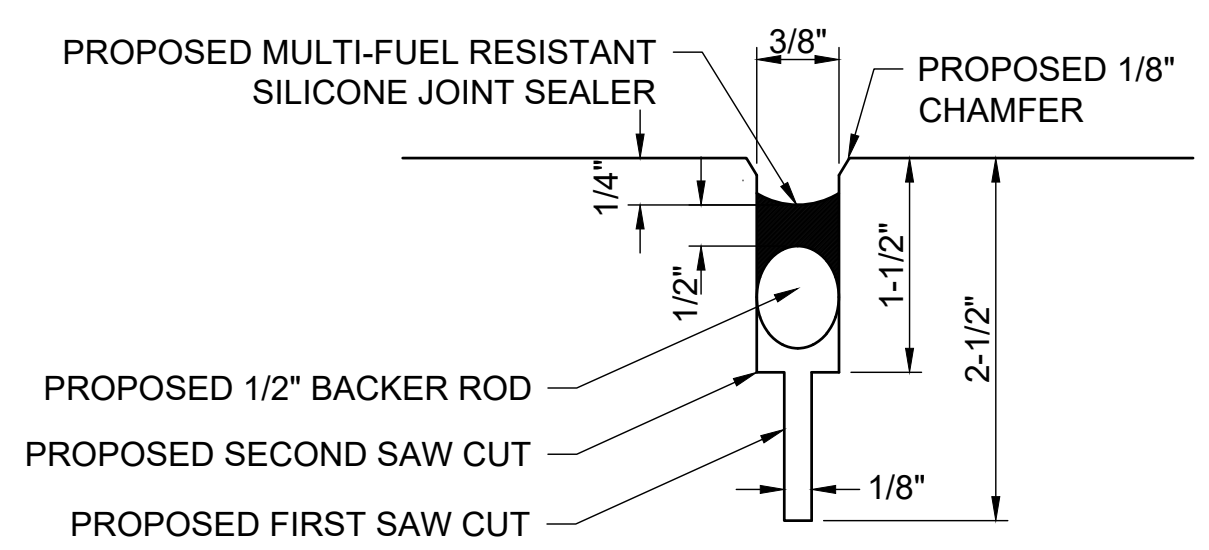
1 DOWELED CONTRACTION JOINT
C3.02|C5.01 SCALE: NONE



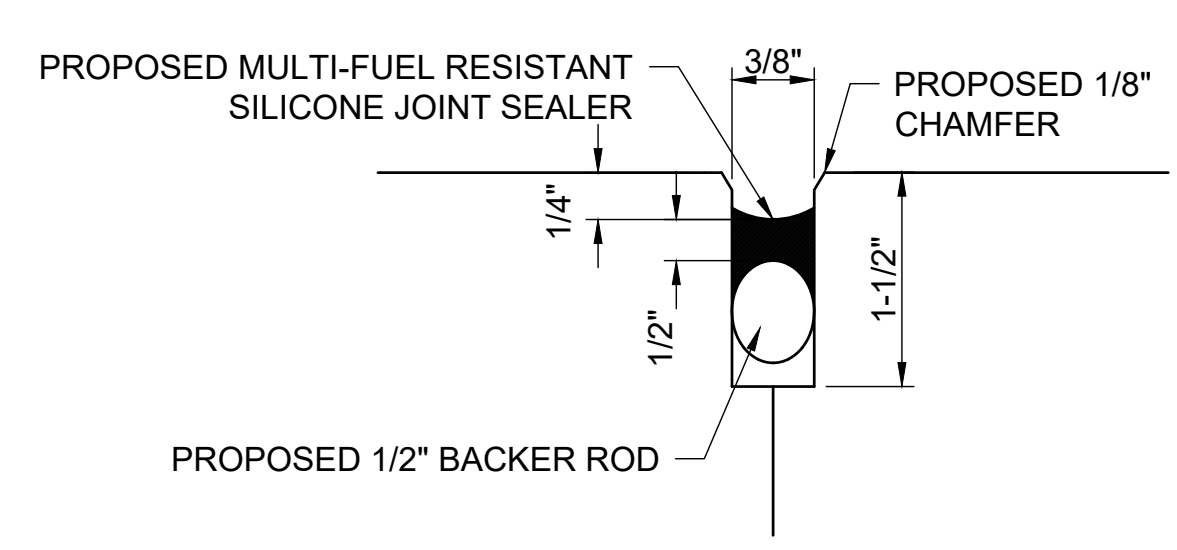
2 DOWELED CONSTRUCTION JOINT
C3.02|C5.01 SCALE: NONE



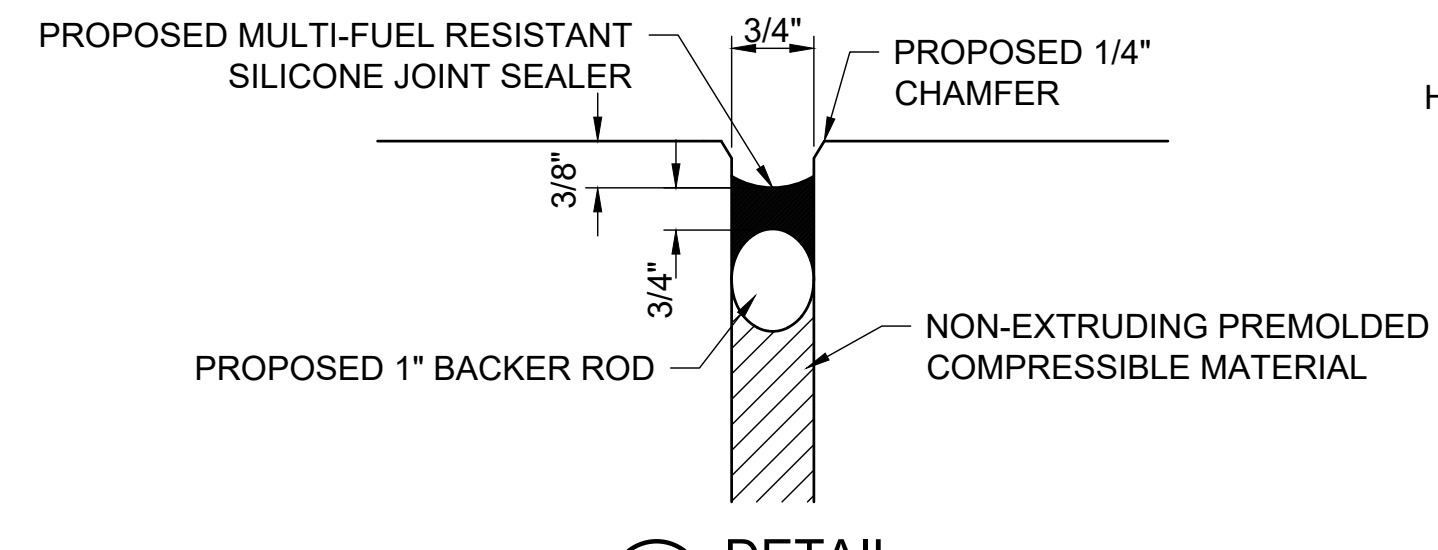
3 THICKENED EDGE EXPANSION JOINT
C3.02|C5.01 SCALE: NONE



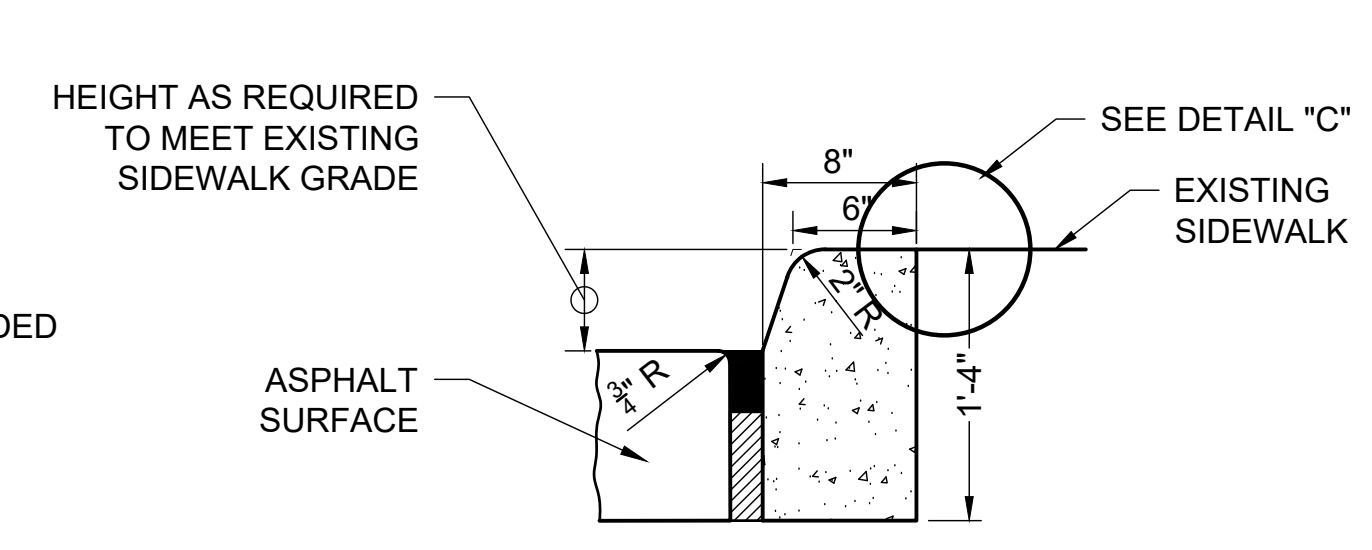
A DETAIL
SCALE: NONE



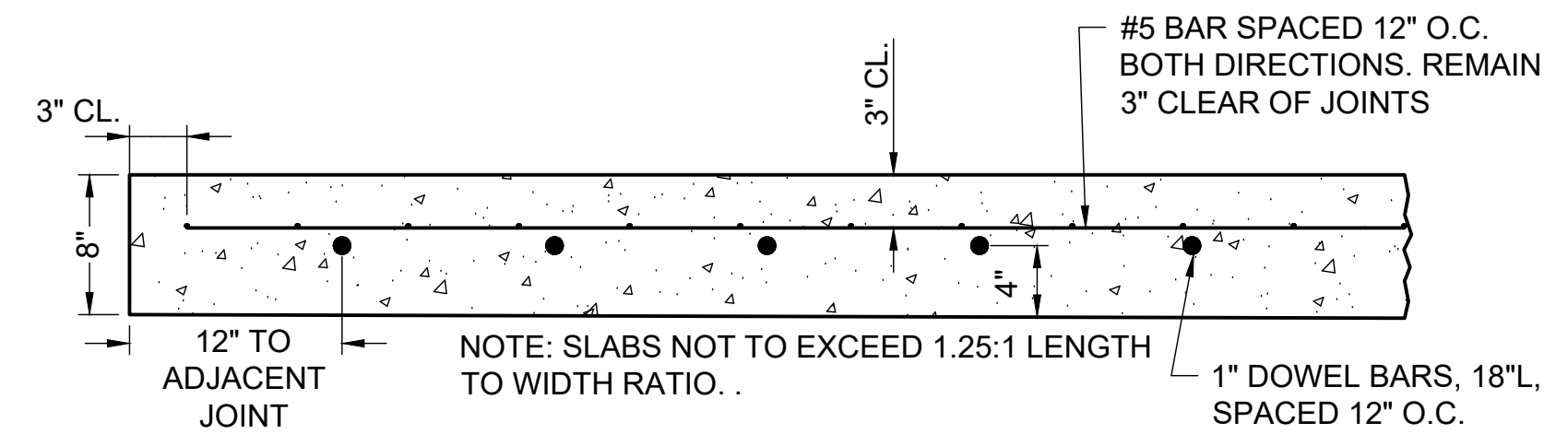
B DETAIL
SCALE: NONE



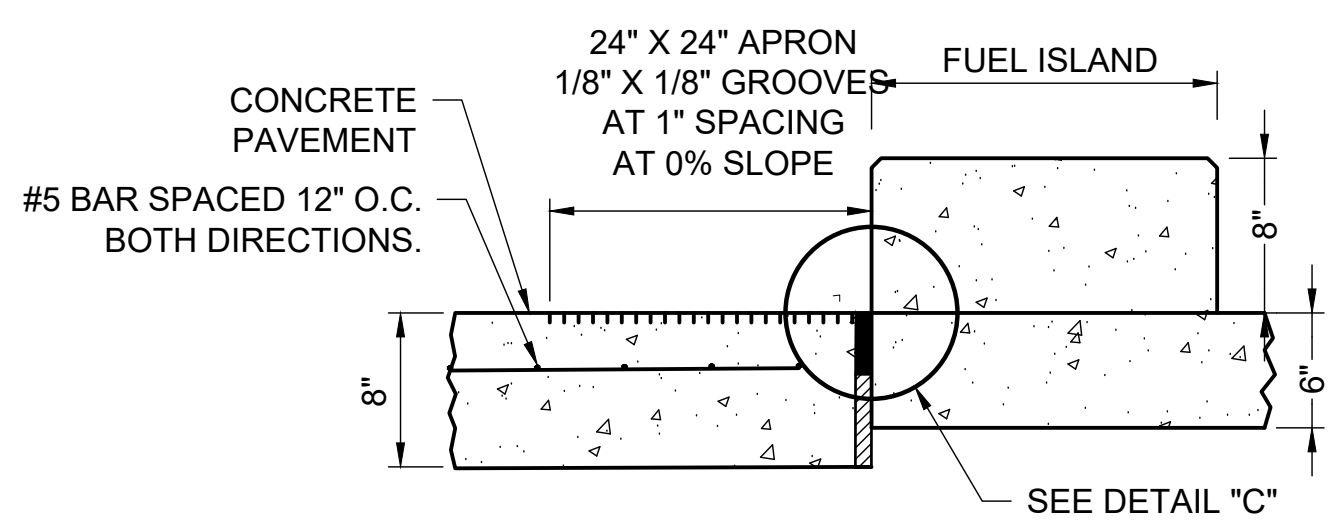
C DETAIL
SCALE: NONE



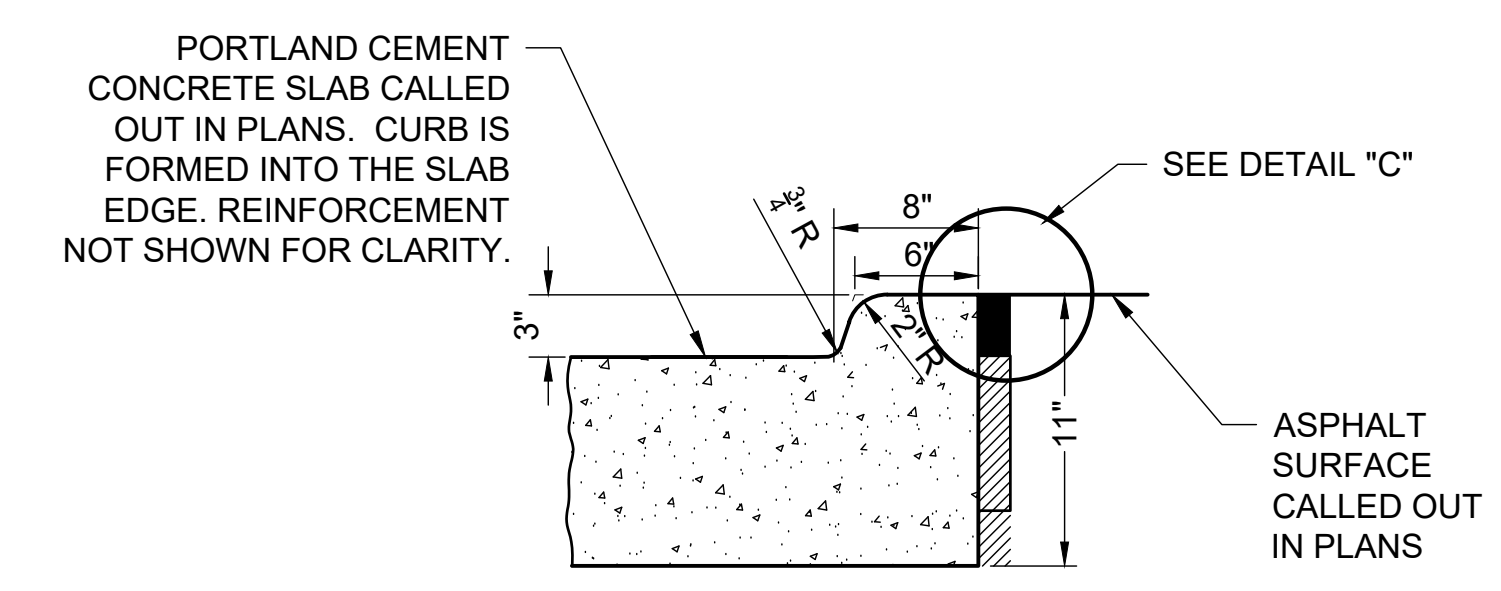
12 MODIFIED FDOT TYPE "D" CURB DETAIL
C2.01|C5.01 SCALE: NONE



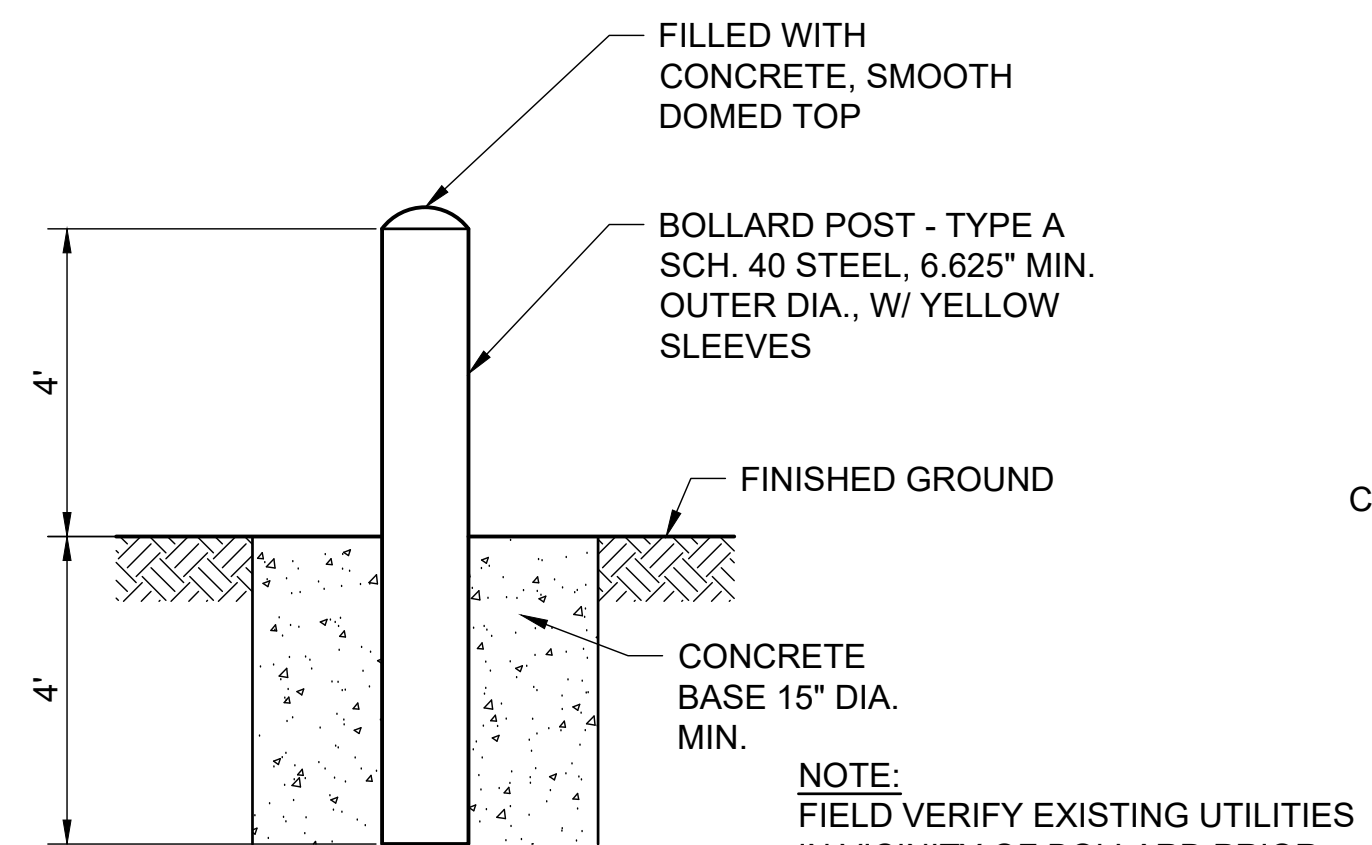
4 CONCRETE PAVEMENT PARKING PAD DETAIL
C2.02|C5.01 SCALE: NONE



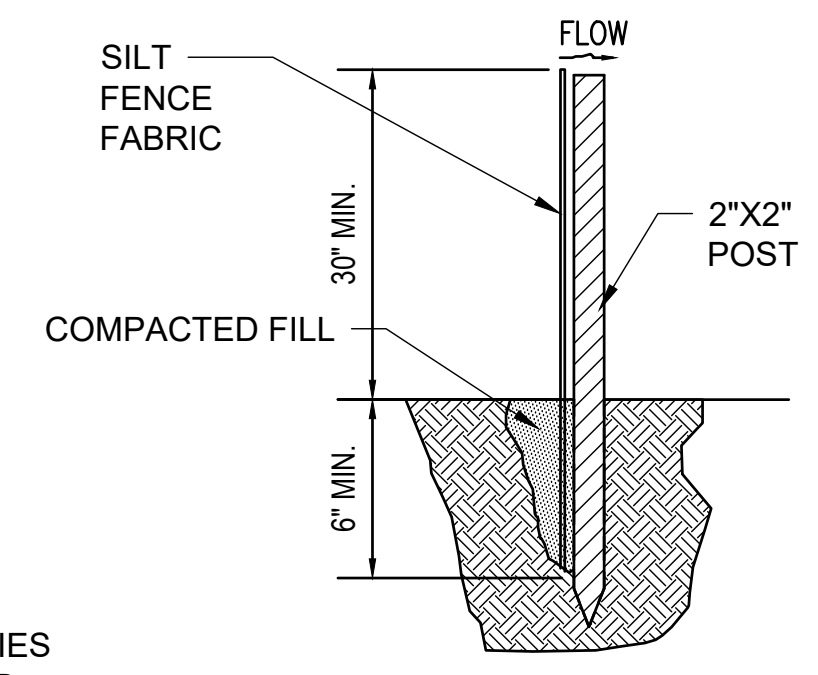
5 DRAINAGE APRON DETAIL
C2.02|C5.01 SCALE: NONE



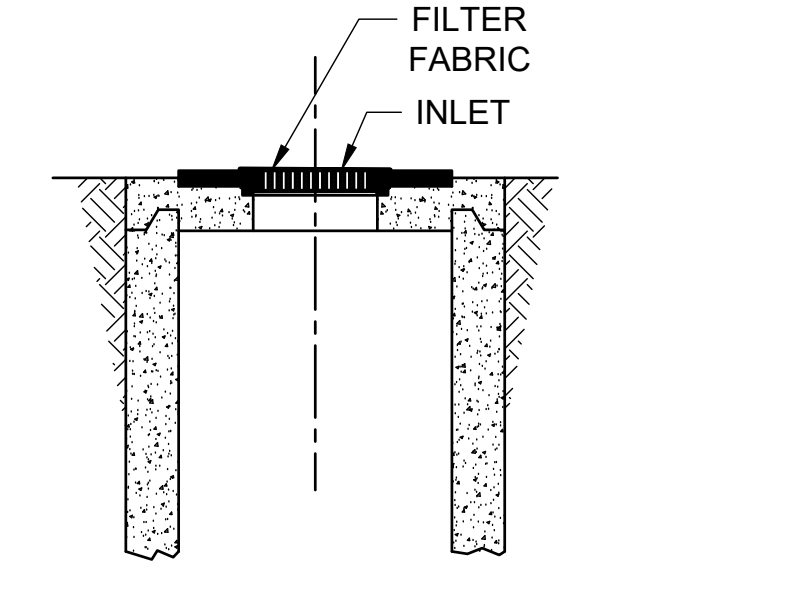
6 MODIFIED FDOT TYPE "D" CURB DETAIL (LOW PROFILE)
C2.02|C5.01 SCALE: NONE



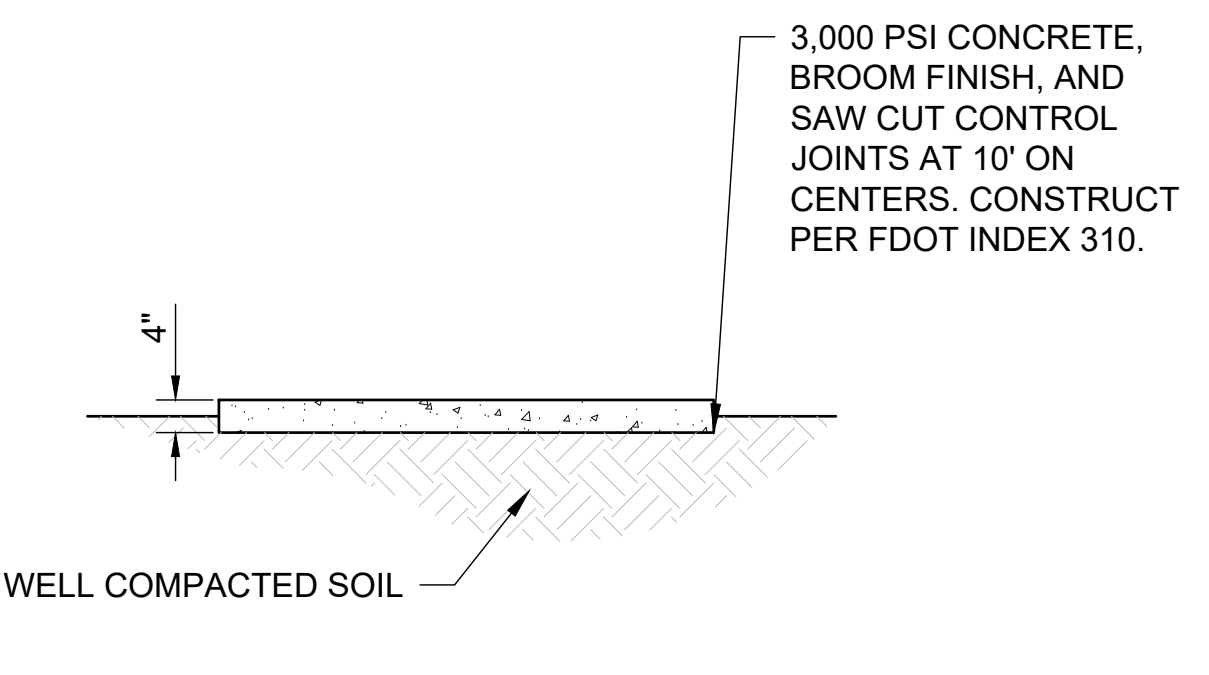
7 BOLLARD DETAIL
C2.01|C5.01 SCALE: NONE



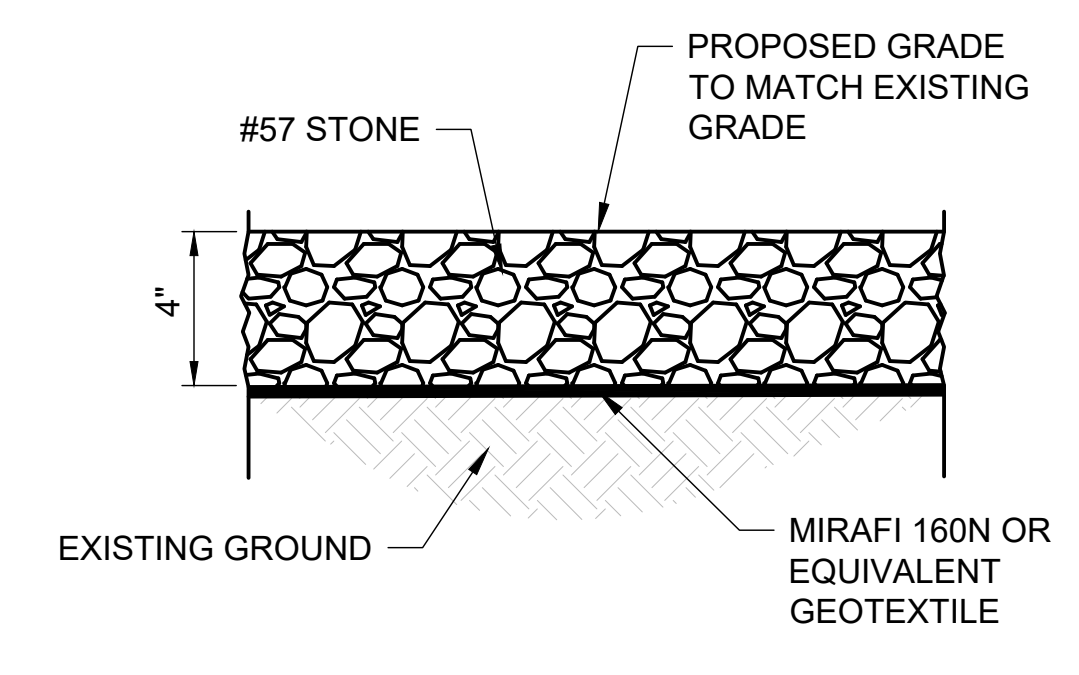
8 SILT FENCE DETAIL
C4.02|C5.01 SCALE: NONE



9 INLET PROTECTION DETAIL
C4.01|C5.01 SCALE: NONE



10 CONCRETE STORAGE PAD DETAIL
C2.01|C5.01 SCALE: NONE



11 #57 STONE SURFACE TYPICAL SECTION
C2.02|C5.01 SCALE: NONE

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Table with columns for DATE, REVISIONS, and other project metadata.

Logos for CURRIER ENGINEERING MANAGEMENT CONSULTING and Naples AIRPORT.

Project information: FUEL FARM IMPROVEMENTS PROJECT, NAPLES AIRPORT (APF), SITE DETAILS SHEET 1 OF 2.

ISSUED FOR PERMIT

HANSON logo and contact information.

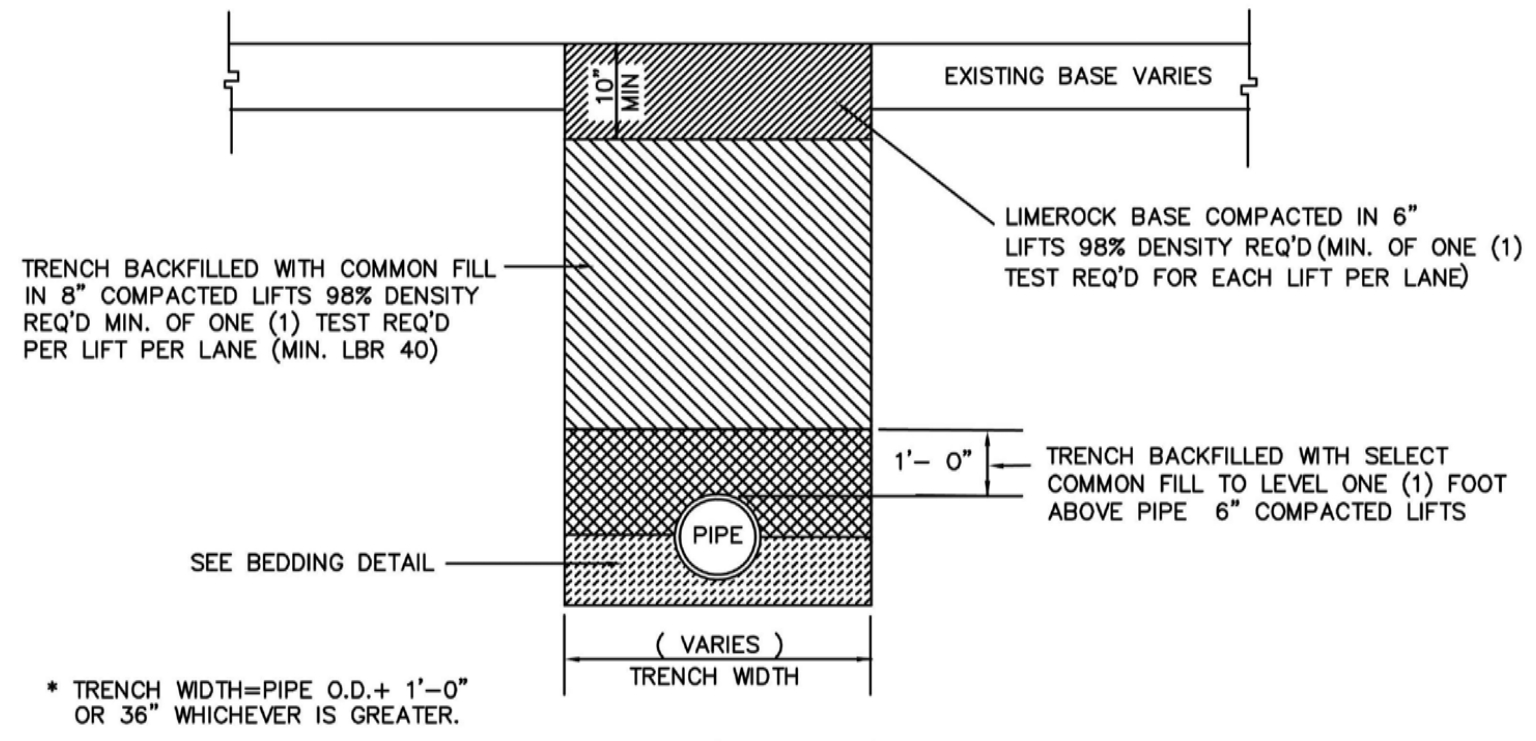
Professional Engineer seal for Christopher A. Reynolds, No. 88657, State of Florida.

Approval table with columns for DESIGNED BY, DRAWN BY, APPROVED BY, SHEET NUMBER, DATE, and PROJ. NO.

C5.01

ISSUED FOR PERMIT

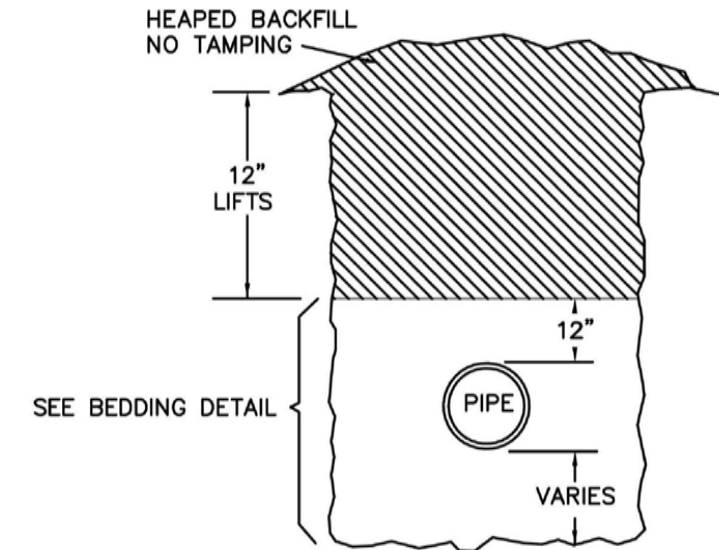
A B C D E F G H I J K L



LIMEROCK ROAD

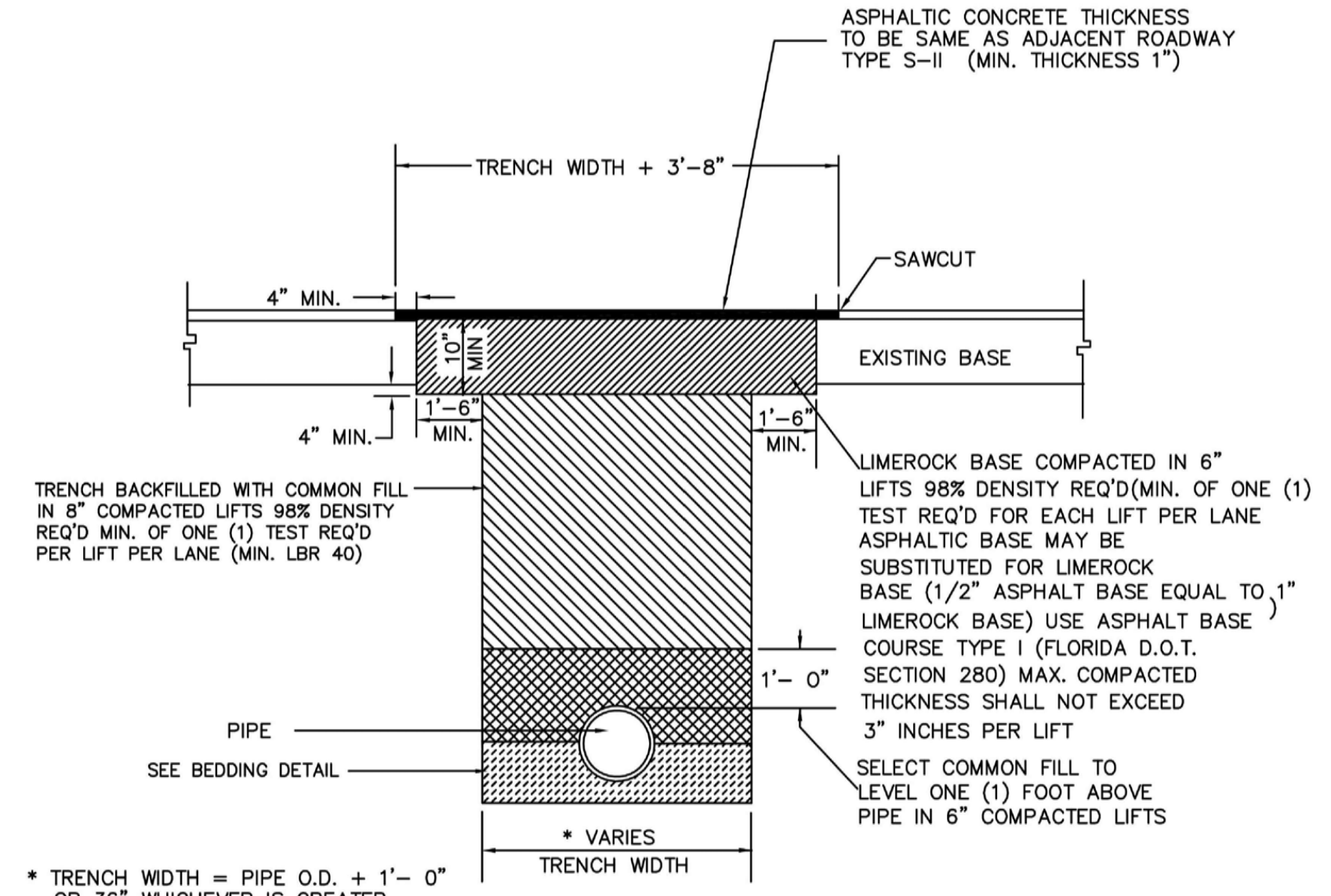
- NOTES: 1) ALL PROCTOR AND DENSITY TESTS SHALL BE TAKEN BY A CERTIFIED LABORATORY
 2) ALL TESTS SHALL BE COMPLETED AND MEET MINIMUM DENSITY REQUIREMENTS PRIOR TO ADDITIONAL BACK-FILLING
 3) ALL BACKFILL MATERIAL REQUIRES APPROVAL BY PROJECT ENGINEER

***** CONTRACTOR SHALL UTILIZE BEST METHODS AND PRACTICES TO CONTROL GROUND WATER DURING ENTIRE EXCAVATION, INSTALLATION, BACKFILL AND COMPACTION. INSTALLATION OF PIPELINE IN WET AND/OR FLOODED TRENCH IS NOT ACCEPTABLE. PROPER BEDDING AND COMPACTION CAN NOT BE ACCOMPLISHED IN WET AND/OR FLOODED TRENCH.



OPEN TERRAIN

BACKFILL DETAIL - LIMEROCK ROAD & OPEN TERRAIN
NOT TO SCALE



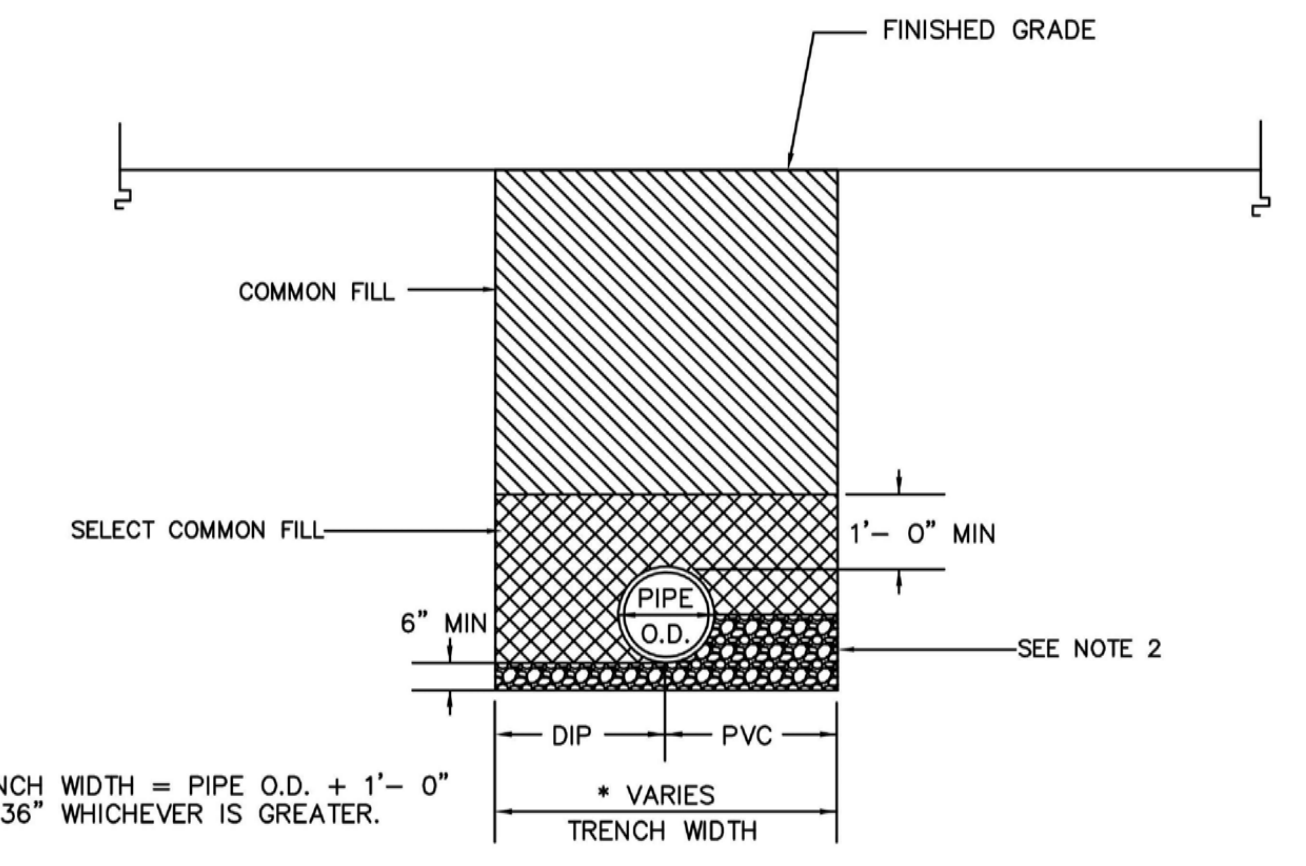
- NOTES: 1) ALL PROCTOR AND DENSITY TESTS SHALL BE TAKEN BY A CERTIFIED LABORATORY
 2) ALL TESTS SHALL BE COMPLETED AND MEET MINIMUM DENSITY REQUIREMENTS PRIOR TO ADDITIONAL BACK-FILLING
 3) ORDINANCE 82-91 REQUIRES A R.O.W. PERMIT FOR ALL WORK WITHIN PUBLIC ROADS. THE R.O.W. PERMIT REQUIREMENTS SHALL SUPERSEDE THIS DETAIL.

***** CONTRACTOR SHALL UTILIZE BEST METHODS AND PRACTICES TO CONTROL GROUND WATER DURING ENTIRE EXCAVATION, INSTALLATION, BACKFILL AND COMPACTION. INSTALLATION OF PIPELINE IN WET AND/OR FLOODED TRENCH IS NOT ACCEPTABLE. PROPER BEDDING AND COMPACTION CAN NOT BE ACCOMPLISHED IN WET AND/OR FLOODED TRENCH.

***** INSTALLATION OF ANY WATER, WASTEWATER, OR RECLAIM WATER LINE REQUIRED TO PASS UNDER OR TRENCHING CAUSING UNDERMINING OF ANY EXISTING CONCRETE CURB, GUTTER, OR SIDEWALK; TUNNELING UNDER IS NOT ALLOWED. ANY AFFECTED CONCRETE CURB, GUTTER, OR SIDEWALK SHALL BE CLEANLY REMOVED (ALL SECTIONS AFFECTED, 5 FT MINIMUM), FULL BACKFILL AND PROPER COMPACTION PERFORMED, CONCRETE REPLACED REQUIRING A MINIMUM OF 5 FT BETWEEN EXPANSION JOINTS.

BACKFILL DETAIL - PAVED ROADWAYS
NOT TO SCALE

UTILITY TRENCH BACKFILL DETAILS (CITY OF NAPLES STANDARDS)



- NOTES: 1) COMMON FILL SHALL BE COMPACTED TO MATCH CRITERIA PROVIDED IN BACKFILL DETAILS FOR PAVED AND UNPAVED LOCATIONS RESPECTIVELY.
 2) BEDDING MATERIAL SHALL BE FDOT #57 STONE IF BELOW THE SEASONAL LOW GROUNDWATER TABLE, OR FDOT #89 STONE, FDOT #131 OR #132 SCREENING IF ABOVE THE SEASONAL LOW GROUNDWATER TABLE.
 3) ORDINANCE 82-91 REQUIRES A R.O.W. PERMIT FOR ALL WORK WITHIN PUBLIC ROADS. THE R.O.W. PERMIT REQUIREMENTS SHALL SUPERSEDE THIS DETAIL.

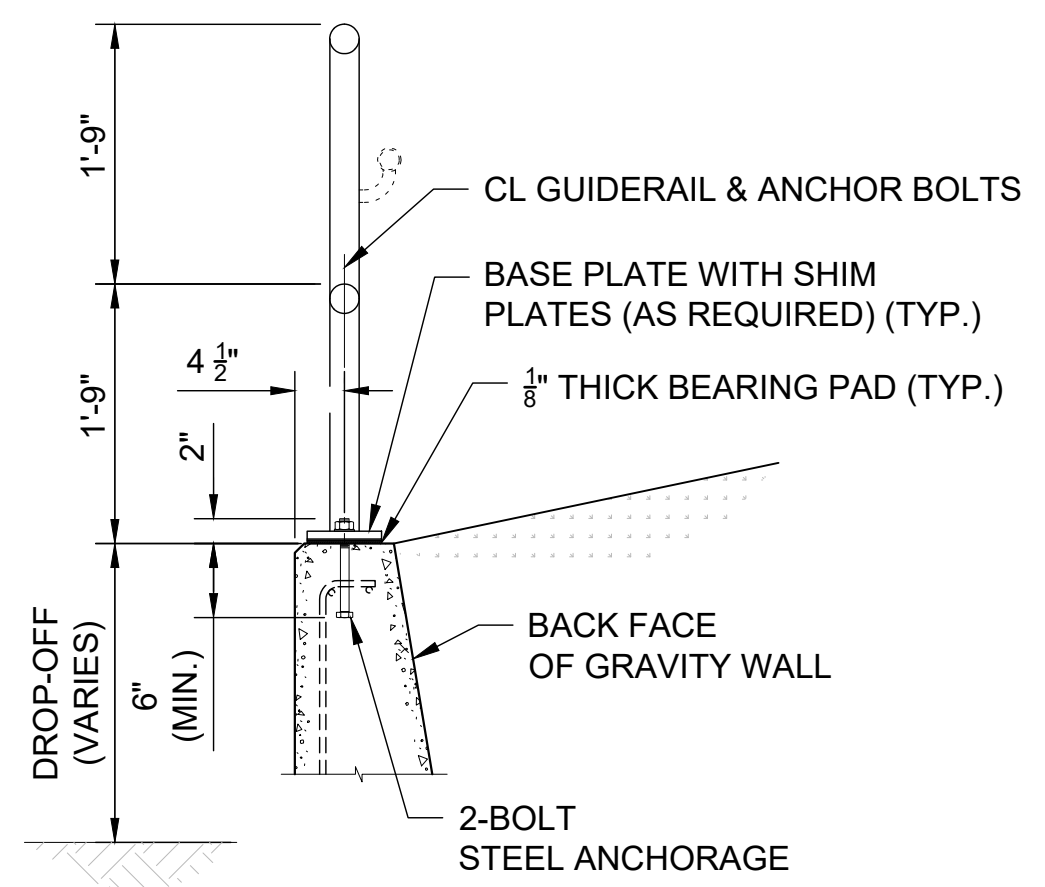
***** CONTRACTOR SHALL UTILIZE BEST METHODS AND PRACTICES TO CONTROL GROUND WATER DURING ENTIRE EXCAVATION, INSTALLATION, BACKFILL AND COMPACTION. INSTALLATION OF PIPELINE IN WET AND/OR FLOODED TRENCH IS NOT ACCEPTABLE. PROPER BEDDING AND COMPACTION CAN NOT BE ACCOMPLISHED IN WET AND/OR FLOODED TRENCH.

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PIPE BEDDING AND BACKFILL DETAIL
NOT TO SCALE

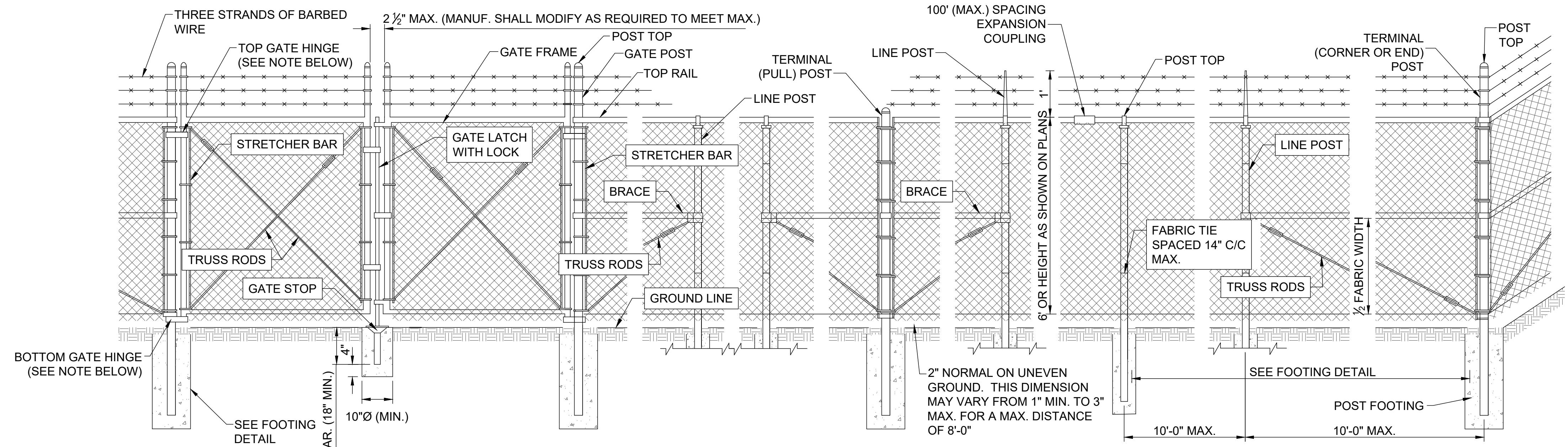
UTILITY NOTES

- EXISTING REFERS TO FACILITIES EITHER PREVIOUSLY CONSTRUCTED OR TO BE CONSTRUCTED UNDER SEPARATE DEVELOPMENT ORDER.
- ALL CONDUITS FOR OTHER UTILITIES SHALL BE SEPARATED FROM POTABLE WATER, FORCE MAINS & SANITARY SEWER, BY A MIN. CLEAR VERTICAL DISTANCE OF 18" & HORIZONTAL DISTANCE OF 5'.
- CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD OF ANY ERRORS OR DISCREPANCIES OF THE PLANS PRIOR TO CONSTRUCTION.
- EXISTING UTILITY INFORMATION WAS PLOTTED FROM AVAILABLE RECORDS. CONTRACTOR SHALL FIELD VERIFY ELEVATIONS AND LOCATION OF ALL UNDERGROUND AND OVERHEAD UTILITY LINES PRIOR TO COMMENCEMENT OF CONSTRUCTION. ANY VARIATIONS FROM THE INFORMATION SHOWN ON THE PLANS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER. THE CONTRACTOR SHALL COORDINATE WITH ALL LOCAL UTILITIES PRIOR TO EXCAVATION TO DETERMINE THE EXACT LOCATION OF ALL UTILITIES. ANY DAMAGE TO EXISTING UTILITIES BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. ANY DESIGN MODIFICATION AND EXPENSE AS A RESULT OF EXISTING UTILITY LINES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO SAFEGUARD ALL EXISTING STRUCTURES, UTILITIES AND SURVEY MARKERS IN THE AREA.



PIPE GUARDRAIL ON GRAVITY WALL TYPICAL SECTION
SCALE: NONE

DATE																
REVISIONS																
													FUEL FARM IMPROVEMENTS PROJECT NAPLES AIRPORT (APF)		SITE DETAILS SHEET 2 OF 2	
PROJECT NAME PROJECT LOCATION DRAWING NAME													ISSUED FOR PERMIT		 Hanson Professional Services Inc. Offices Nationwide FL CA Lic. No. 7961 SEAL:	
DESIGNED BY: JKD DRAWN BY: JKD APPROVED BY: CAR SHEET NUMBER:													DATE: 04/02/2024 PROJ. NO: 22A0138_02 FILE NAME: C5.01		PROFESSIONAL ENGINEER STATE OF FLORIDA	
C5.02													This item has been digitally signed and sealed by Christopher A. Reynolds, PE on 04/02/2024.		Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.	



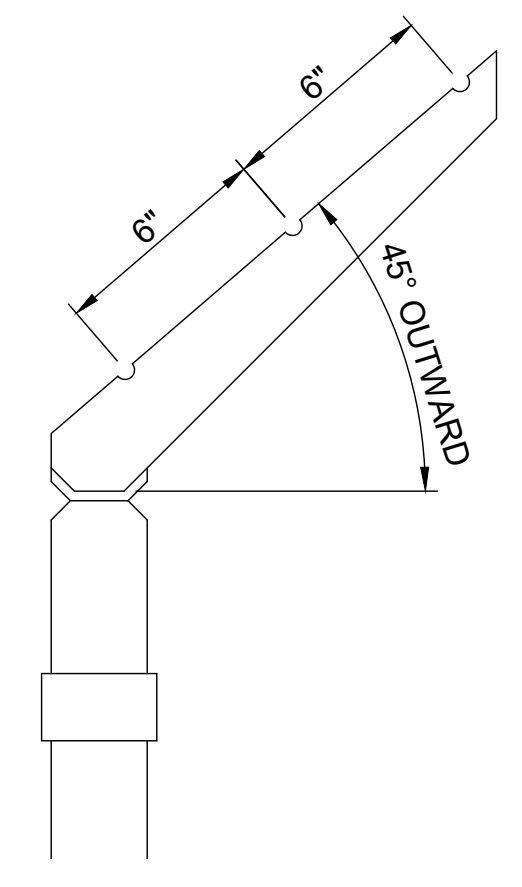
2 SWING GATE ARRANGEMENT
SCALE: NONE

A PULL POST ARRANGEMENT
SCALE: NONE

B LINE POST ARRANGEMENT
SCALE: NONE

C CORNER OR END POST ARRANGEMENT
SCALE: NONE

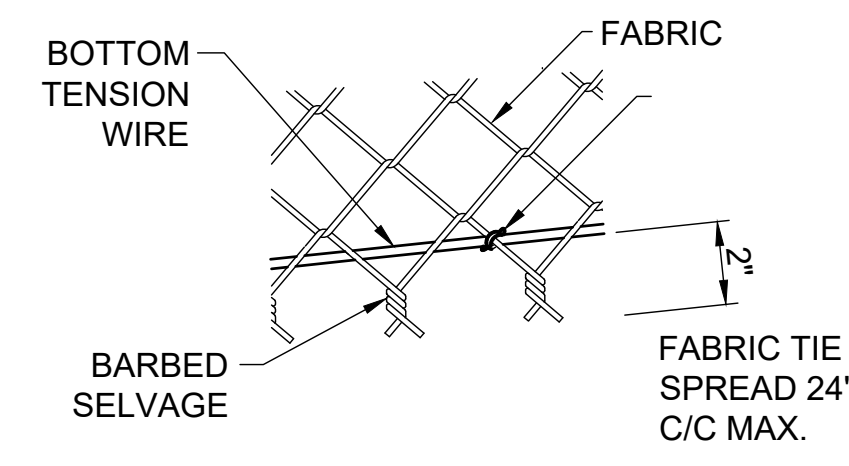
1 FENCE DETAIL
SCALE: NONE



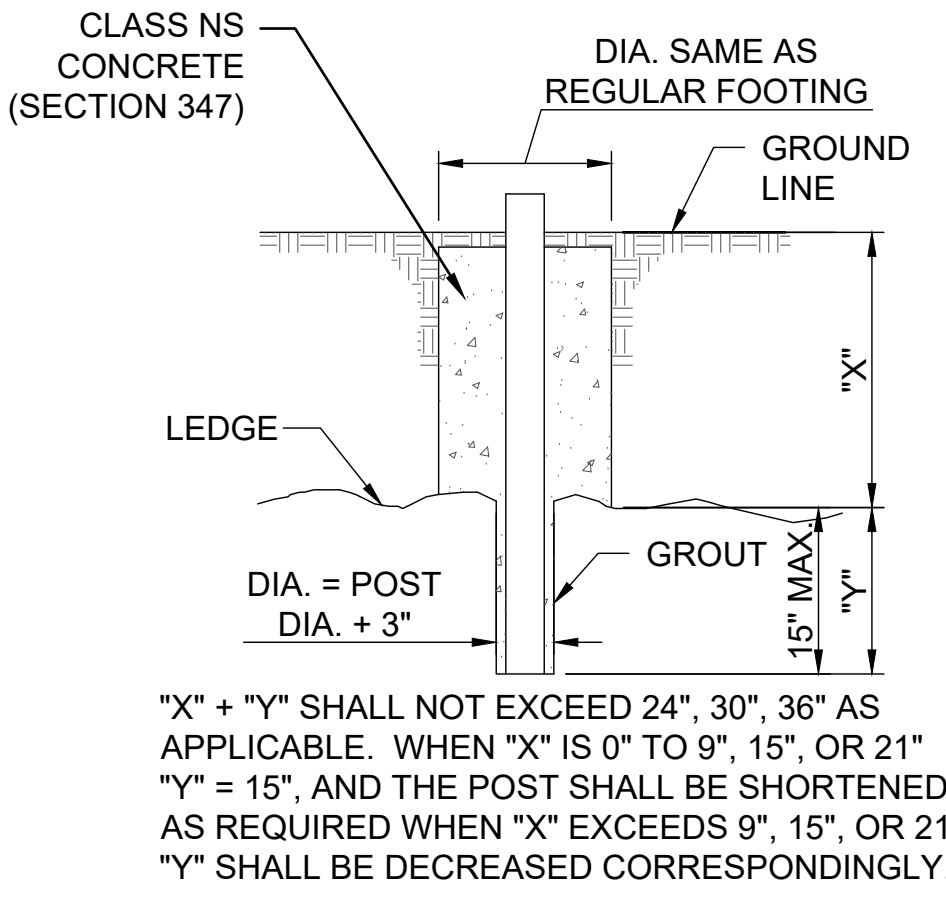
D BARBED WIRE ARM OF LINE POST
SCALE: NONE

POST & BRACE TABLE		
DESCRIPTION	DIA. - INCH (O.D.)	WT. LBS./FT.
LINE POST	2.375	3.65
TERMINAL POST	2.875	5.79
END POST	2.875	5.79
CORNER POST	2.875	5.79
PULL POST	2.875	5.79
GATE POST	4.00	9.11
TOP RAIL	1.66	2.27

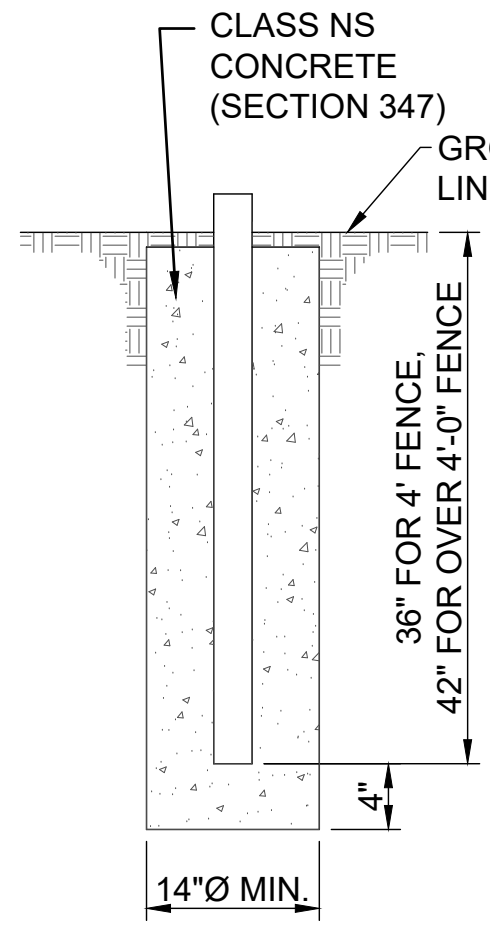
NOTE: TABLE ABOVE IS FOR SCHEDULE 40 PIPE. OTHER MATERIALS ARE ACCEPTABLE, IN ACCORDANCE WITH THE PARAGRAPH AT LEFT, AND SHALL BE OF EQUAL CAPACITY AND STRENGTH TO THAT SHOWN FOR SCHEDULE 40, BUT NOT NECESSARILY OF EQUAL DIMENSION DUE TO THE VARIOUS MATERIAL CHARACTERISTICS.



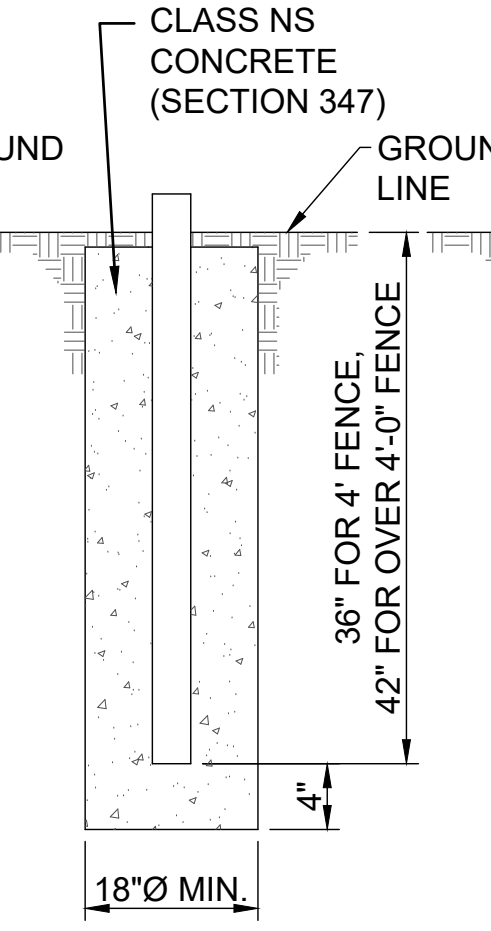
E METHOD OF TYING FABRIC TO TENSION WIRE
SCALE: NONE



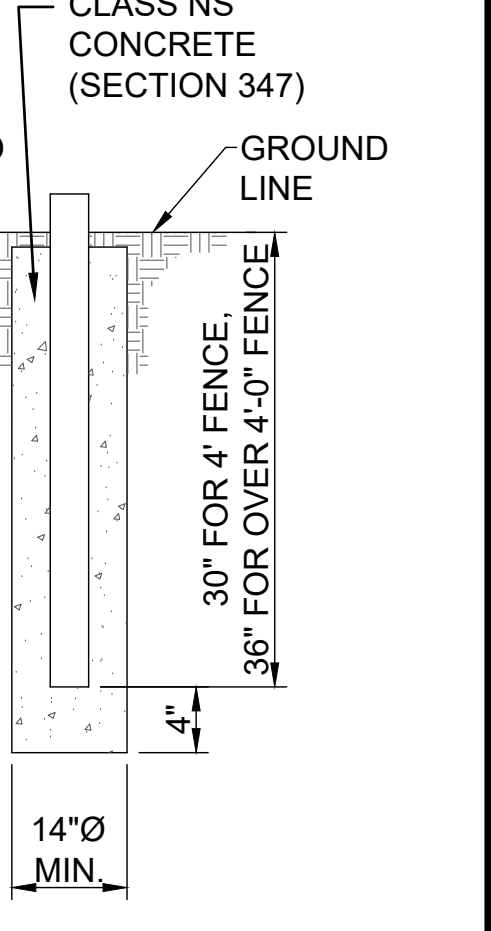
F FOOTING FOR POST WHEN ROCK IS ENCOUNTERED
SCALE: NONE



G FOOTING FOR TERMINAL POST
SCALE: NONE



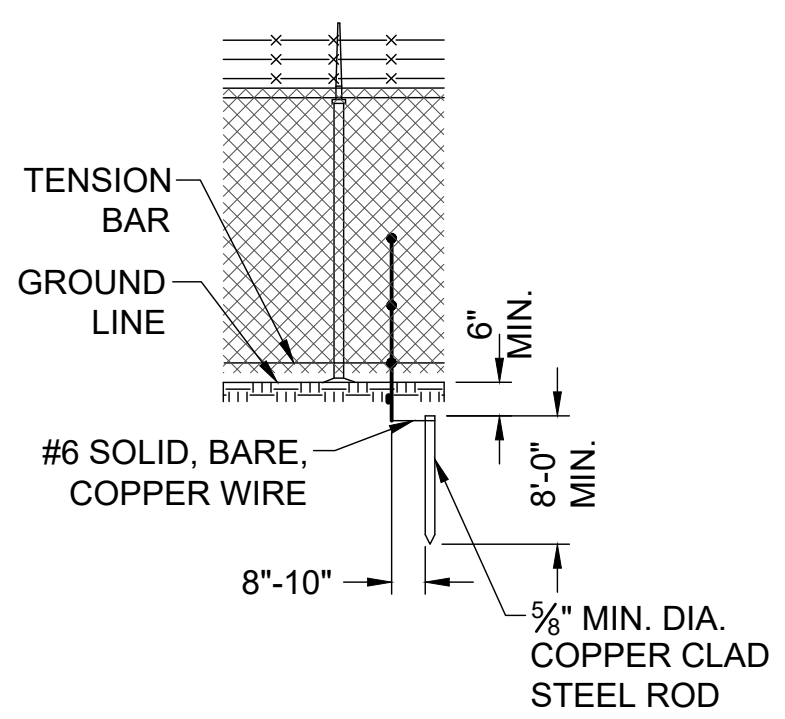
H FOOTING FOR GATE POST
SCALE: NONE



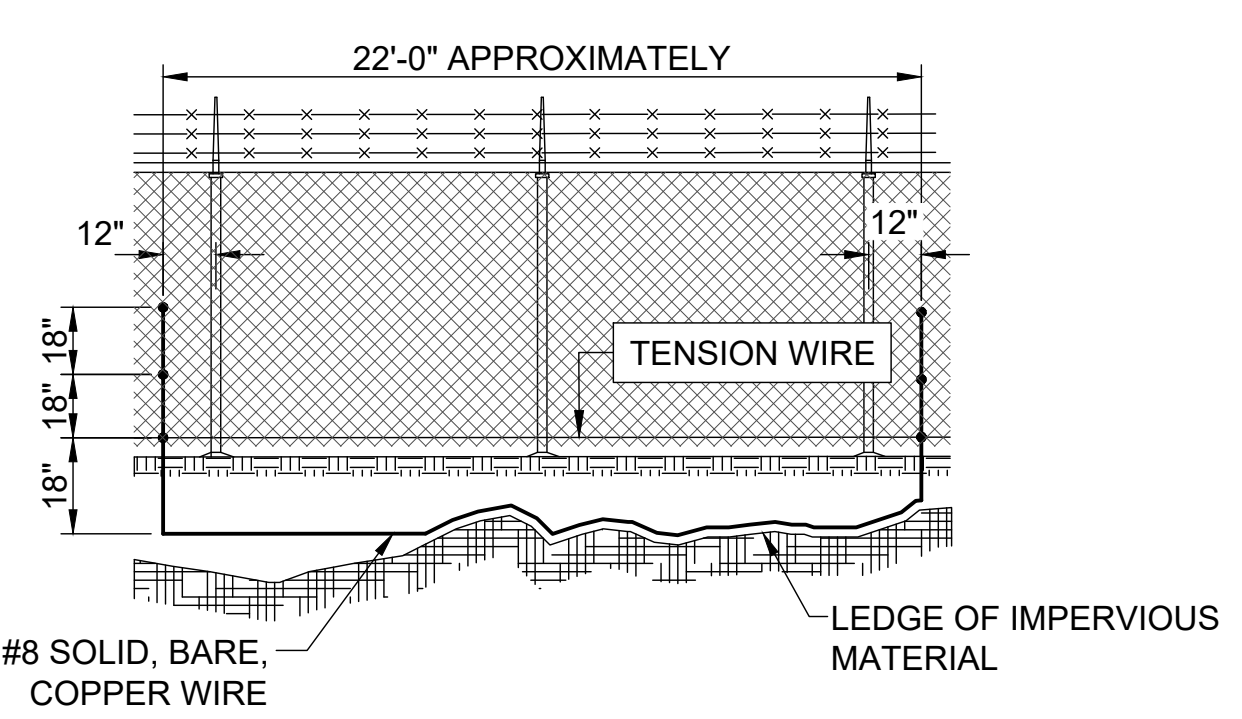
J FOOTING FOR LINE POST
SCALE: NONE

GENERAL NOTE:

CONTINUOUS FENCE SHALL BE GROUNDED AT INTERVALS NOT EXCEEDING 500 FT IN URBAN AREAS AND 1,000 FT IN RURAL AREAS. THERE SHALL BE A GROUND WITHIN 100 FT OF GATES IN EACH SECTION OF THE FENCE ADJACENT TO THE GATE. FENCE UNDER A POWER LINE SHALL BE GROUNDED BY THREE GROUNDS; ONE DIRECTLY UNDER THE CROSSING AND ONE ON EACH SIDE 25 FT TO 50 FT AWAY. A SINGLE GROUND SHALL BE LOCATED DIRECTLY UNDER EACH TELEPHONE WIRE OR CABLE CROSSING. THE COUNTERPOISE GROUND SHALL BE USED ONLY WHERE IT IS IMPOSSIBLE TO DRIVE A GROUND ROD. THE GROUND WIRE SHALL BE CONNECTED TO THE FABRIC AND TENSION WIRE WITH UL LISTED GROUNDING CONNECTORS OF CAST BRONZE BODY AND BRONZE OR STAINLESS STEEL BOLTS AND WASHERS. GROUNDING CONNECTORS SHALL BE SIZED AND SUITABLE FOR THE RESPECTIVE APPLICATION. CONNECTIONS TO GROUND RODS SHALL BE WITH UL LISTED GROUNDING CONNECTORS SUITABLE FOR EXOTHERMIC WELD TYPE CONNECTORS, CADWELD BY ERICO PRODUCTS, INC., SOLON, OHIO, (PHONE 1-800-248-9353), OR THERMOWELD BY CONTINENTAL INDUSTRIES, INC., TULSA, OKLAHOMA (PHONE 918-663-1440) OR ULTRAWELD BY HARGER, GRAYSLAKE, ILLINOIS (PHONE 1-800-842-7437). EXOTHERMIC WELD CONNECTIONS SHALL BE INSTALLED IN CONFORMANCE WITH THE RESPECTIVE MANUFACTURER'S DIRECTIONS USING MOLDS SUITABLE FOR EACH RESPECTIVE APPLICATION. GROUND RODS SHALL BE 5/8-IN. DIAMETER BY 8 FT LONG (MINIMUM), UL-LISTED, COPPER-CLAD. THE GROUND WIRE USED TO BOND THE FENCE FABRIC AND TENSION WIRE TO THE GROUND ROD SHALL BE #6 AWG BARE SOLID COPPER CONDUCTOR.

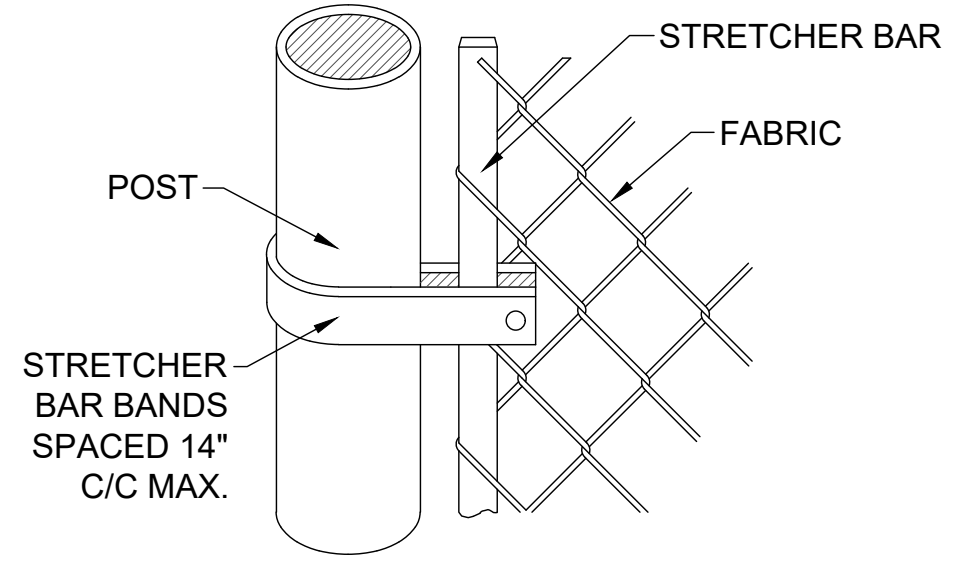


K STANDARD GROUND
SCALE: NONE

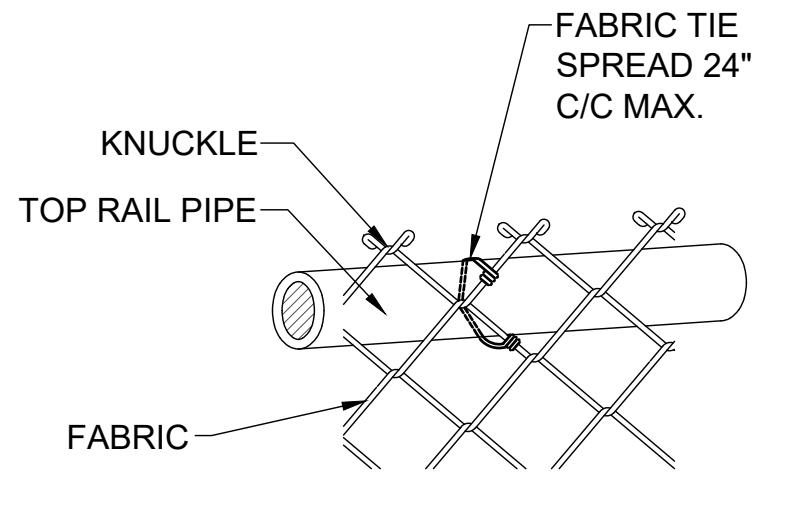


L COUNTERPOISE GROUND (ALTERNATE)
SCALE: NONE

3 PROTECTIVE ELECTRICAL GROUND
SCALE: NONE



M METHOD OF FASTENING STRETCHER BAR TO POST
SCALE: NONE



N METHOD OF TYING FABRIC TO PIPE
SCALE: NONE

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CURRIER
ENGINEERING MANAGEMENT CONSULTING

Naples AIRPORT

FUEL FARM IMPROVEMENTS PROJECT
NAPLES AIRPORT (APF)

FENCING DETAILS

PROJECT NAME: _____
PROJECT LOCATION: _____
DRAWING NAME: _____

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Offices Nationwide
FL CA Lic. No. 7961

SEAL: _____

CHRISTOPHER A. REYNOLDS
No. 88657
STATE OF FLORIDA
PROFESSIONAL ENGINEER
PROFESSIONAL ENGINEER
STATE OF FLORIDA

DESIGNED BY: YY DATE: 04/02/2024
DRAWN BY: YY PROJ. NO: 22A0138_02
APPROVED BY: CAR FILE NAME: C5.02
SHEET NUMBER: _____

C5.03

GENERAL NOTES

- DESIGN:
ACI 318 – BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE.
- AT ALL TIMES THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONDITIONS OF THE JOBSITE INCLUDING SAFETY OF PERSONS AND PROPERTY. THE ENGINEER'S PRESENCE OR REVIEW OF WORK DOES NOT ENSURE THE ADEQUACY OF THE CONTRACTOR'S MEANS OR METHODS OF CONSTRUCTION.
- SHORING, BRACING AND PROTECTION OF EXISTING AND ADJACENT STRUCTURES DURING CONSTRUCTION IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL PROTECT AND MAINTAIN THE INTEGRITY OF ADJACENT STRUCTURES.
- PROPOSED IMPROVEMENTS TO THE CONTAINMENT AREA SHALL BE IN CONFORMANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES AND REGULATIONS AS REQUIRED BY THE RESPECTIVE PERMITTING AUTHORITY OF JURISDICTION, INCLUDING, BUT NOT LIMITED TO:

FLORIDA ADMINISTRATIVE RULES, CHAPTER 62-762 ABOVEGROUND STORAGE TANK SYSTEMS.

NFPA 30 – FLAMMABLE AND COMBUSTIBLE LIQUIDS CODE (MOST CURRENT ISSUE IN FORCE).

NFPA 407 – STANDARD FOR AIRCRAFT FUEL SERVICING (MOST CURRENT ISSUE IN FORCE.) INCLUDING APPENDICES FOR DESIGN AND CONSTRUCTION, INSTALLATION, INSPECTION AND TESTING OF FUEL DISTRIBUTION SYSTEM, TANKS, PIPING, AND OTHER COMPONENTS RELATED TO INSTALLATION OF FUEL STORAGE AND DISPENSING SYSTEM.

CONCRETE

- ALL CONCRETE SHALL BE IN CONFORMANCE WITH ACI 318, 301, 347, LATEST EDITIONS, AND PROPORTIONED FOR STRENGTH AND QUALITY REQUIREMENTS IN ACCORDANCE WITH ACI 318, SECTION 5.3 "PROPORTIONING IN THE BASIS OF FIELD EXPERIENCE".
- ALL CONCRETE SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 4500 PSI AT 28-DAY STANDARD TEST, AND SHALL HAVE A SLUMP OF 4"± 1".
- CEMENT SHALL CONFORM TO ASTM C 150, TYPE I.
- AGGREGATES SHALL CONFORM TO ASTM C 33, NORMAL WEIGHT.
- PLACING OF CONCRETE SHALL CONFORM TO ACI 318 AND 301 LATEST EDITIONS. ALL CONCRETE SHALL BE PLACED IN DRY UNLESS WRITTEN APPROVAL IS OBTAINED.
- COVER MATERIALS FOR CURING: CURING MATERIALS SHALL CONFORM TO ONE OF THE FOLLOWING SPECIFICATIONS:

BURLAP CLOTH MADE FROM JUTE OR KENAF – AASHTO M182

LIQUID MEMBRANE-FORMING COMPOUNDS FOR CURING CONCRETE – ASTM C309, TYPE 7
- CURING AND PROTECTION: ALL CONCRETE SHALL BE PROPERLY CURED AND PROTECTED BY THE CONTRACTOR. THE WORK SHALL BE PROTECTED FROM THE ELEMENTS, FLOWING WATER, AND FROM DEFACEMENT OF ANY NATURE DURING THE BUILDING OPERATIONS. THE CONCRETE SHALL BE CURED AS SOON AS IT HAS SUFFICIENTLY HARDENED BY COVERING WITH AN APPROVED MATERIAL. WATER-ABSORPTIVE COVERINGS SHALL BE THOROUGHLY SATURATED WHEN PLACED AND KEPT SATURATED FOR A PERIOD OF AT LEAST 3 DAYS. ALL CURING MATS OR BLANKETS SHALL BE SUFFICIENTLY WEIGHTED OR TIED DOWN TO KEEP THE CONCRETE SURFACE COVERED AND TO PREVENT THE SURFACE FROM BEING EXPOSED TO CURRENTS OF AIR. WHERE WOODEN FORMS ARE USED, THEY SHALL BE KEPT WET AT ALL TIMES UNTIL REMOVED TO PREVENT THE OPENING OF JOINTS AND DRYING OUT OF THE CONCRETE. TRAFFIC SHALL NOT BE ALLOWED ON CONCRETE SURFACES FOR 7 DAYS AFTER THE CONCRETE HAS BEEN PLACED.
- CONTRACTOR SHALL EMPLOY A CERTIFIED TESTING LABORATORY FOR CONCRETE SAMPLING AND TESTING IN ACCORDANCE WITH ASTM C31 AND ASTM C39. ONE SET OF FIVE 4" X 8" CONCRETE CYLINDERS FOR EACH DAY'S PRODUCTION (TEST 1 @3, 1 @7 AND 2 @28 DAYS). IF THE TWO 28 DAY TESTS FAIL TO MEET REQUIRED STRENGTH, TEST THE 5TH CYLINDER AT 48 DAYS.
- EXACT LOCATION OF CONCRETE PLACED IMMEDIATELY AFTER TEST SAMPLE SHALL BE INDICATED ON REPORT. SAMPLE CONCRETE SHALL BE SAMPLED AT POINT OF DISCHARGE AND INDICATED AS SUCH ON REPORT.

- MINIMUM CONCRETE COVER SHALL BE AS SHOWN ON THE DRAWINGS. WHERE THE COVER IS NOT DIMENSIONED, USE THE FOLLOWING:

CONCRETE CAST AGAINST GROUND: 3"

SLABS ON GRADE THE MINIMUM COVER SHALL BE 2 INCHES FROM BOTTOM

ALL OTHER CASES: 2"

FOUNDATIONS AND SLABS ON GRADE

- FOUNDATION DESIGN IS BASED ON ALLOWABLE SOIL BEARING PRESSURE OF 2000 PSF. CONTRACTOR SHALL MAKE NECESSARY FIELD MEASUREMENTS TO VERIFY THAT EXISTING CONDITIONS ARE COMPATIBLE WITH THE ASSUMPTION. IF DURING THE COURSE OF CONSTRUCTION, ANY SUBSOIL CONDITION ENCOUNTERED IS DIFFERENT FROM THAT ASSUMED BY THE ENGINEER, NOTIFY THE ENGINEER BEFORE PROCEEDING WITH THE WORK. A VAPOR BARRIER CONSISTING OF 10 MIL MINIMUM POLYETHYLENE WITH JOINTS LAPPED 6 INCHES AND SEALED SHALL BE INSTALLED UNDERNEATH THE SLAB.
- SLAB ON GRADE SHALL BE SUPPORTED ON THE COMPACTED STRUCTURAL FILL. FILL SHOULD BE COMPACTED TO A MINIMUM OF 95 PERCENT OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D-1557).
- BASIS OF DESIGN FOR JET A FUEL TANK FOUNDATIONS IS A 40,000 GALLON SINGLE WALL STEEL TANK WITH A NOMINAL LENGTH OF 47'-6", DIAMETER OF 144", AND WEIGHT OF 40,000 POUNDS WITH TWO MOUNTING SADDLES. CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY AND MAKE ANY REQUIRED CHANGES TO THE FOUNDATION DIMENSIONS OR LOCATIONS TO ACCOMMODATE THE ACTUAL TANK SUPPLIED. ANY REVISIONS TO FOUNDATION DESIGN SHALL BE BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER.

REINFORCING STEEL

- ALL REINFORCING STEEL SHALL BE DEFORMED BARS, FREE FROM LOOSE RUST AND SCALE, CONFORMING TO ASTM A-615, GRADE 60. NO WELDING OR TACK WELDING SHALL BE ALLOWED. MINIMUM LAP OF 48 BAR DIAMETER U.N.O. ALL REINFORCEMENT (EXCEPT FOR DRILLED PIER REINFORCEMENT) TO BE EPOXY COATED PER ASTM A775.
- WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185, FLAT SHEETS ONLY. MINIMUM LAP SHALL BE 8". ALL WWF REINFORCEMENT TO BE EPOXY COATED PER ASTM A884.
- ALL ACCESSORIES SHALL HAVE UPTURNED LEGS AND SHALL BE PLASTIC DIPPED AFTER FABRICATION. ACCESSORIES SHALL BE INSTALLED IN ACCORDANCE WITH ACI 315 CURRENT EDITION. SUPPORT BARS SHALL BE #5 OR GREATER NOT SPACED MORE THAN 4' -0" O.C.

SITE PREPARATION

- THE ENTIRE STRUCTURE AREAS "FOOTPRINTS", PLUS A MINIMUM MARGIN OF 5 FEET, SHOULD BE STRIPPED AND GRUBBED OF ALL SURFACE VEGETATION, DEBRIS OR OTHER DELETERIOUS MATERIAL, AS ENCOUNTERED. THESE MATERIALS SHOULD BE DISPOSED OF IN AREAS DESIGNATED BY THE OWNER.
- THE CLEARED SURFACES IN CONSTRUCTION AREAS SHOULD BE PROOFROLLED USING THE APPROPRIATE COMPACTION EQUIPMENT FOR SITE AND SOIL CONDITIONS. ADJUST THE MOISTURE CONTENT OF THE SOIL, AS NECESSARY, TO AID COMPACTION. SUFFICIENT PASSES SHOULD BE MADE TO DEVELOP A MINIMUM DRY DENSITY OF 95 PERCENT OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D-1557) TO A DEPTH OF 12 INCHES BELOW THE COMPACTED SURFACE. REPLACE ALL MATERIAL, IF DETERMINED TO BE DELETERIOUS, IN AREAS THAT "YIELD" DURING THE PROOFROLLING OPERATION AND REPLACE WITH SUITABLE FILL MATERIAL CONFORMING TO THAT STATED IN ITEM 4. CARE SHOULD BE EXERCISED TO AVOID DAMAGING ANY NEIGHBORING STRUCTURES DURING THE COMPACTION OPERATION.
- AFTER SATISFACTORY PROOFROLLING OF THE CLEARED SURFACE IN ACCORDANCE WITH THE ABOVE, FILLING WITH SUITABLE MATERIAL MAY PROCEED. FILL MATERIAL SHOULD CONFORM TO THAT STATED IN ITEM 4 BELOW. THE FILL SHOULD BE PLACED IN LEVEL LIFTS NOT EXCEEDING 12 INCHES IN UNCOMPACTED THICKNESS. EACH LIFT SHOULD BE COMPACTED BY REPEATED PASSES WITH APPROPRIATE COMPACTION EQUIPMENT TO ACHIEVE AT LEAST 95 PERCENT OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D-1557). THE FILLING AND COMPACTION OPERATIONS SHOULD CONTINUE UNTIL THE DESIRED ELEVATION(S) IS ACHIEVED.
- FILL MATERIAL SHOULD PREFERABLY CONSIST OF CLEAN TO SLIGHTLY SILTY FINE SANDS (SP OR SP-SM), FREE OF ORGANIC OR OTHER DELETERIOUS MATERIALS, WITH LESS THAN 12 PERCENT PASSING THE U.S. SIEVE NO. 200. THE FILL SOILS SHOULD BE PLACED AND COMPACTED WITHIN +2% TO -4% OF THE OPTIMUM MOISTURE AS DEFINED BY ASTM D-1557.

- EXCAVATE THE FOOTINGS TO THE PROPOSED BOTTOM OF FOOTING ELEVATIONS AND, THEREAFTER, VERIFY THE IN-PLACE COMPACTION. IF NECESSARY, COMPACT THE BOTTOM OF THE EXCAVATIONS TO ACHIEVE A MINIMUM DRY DENSITY OF 95 PERCENT OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D-1557). THIS DENSITY SHOULD BE DEVELOPED TO A MINIMUM DEPTH OF 12 INCHES BELOW THE BOTTOM OF THE FOOTINGS. OVEREXCAVATE AND RECOMPACT, AS NECESSARY, TO FULFILL THE ABOVE COMPACTION CRITERIA. THE MOISTURE CONTENT OF THE FOUNDATION SOILS MUST BE CONTROLLED DURING THE COMPACTION PROCEDURE TO AID COMPACTION.

COATING

- PROVIDE POLYUREA COATING FOR TANK CONTAINMENT AREA. COATING SHALL BE TOTAL CONTAINMENT SOLUTIONS TCS 380-CL OR APPROVED EQUAL AND SHALL BE INSTALLED PER THE FDEP APPROVED EQ PROTOCOL.
- CONTRACTOR TO MAKE REPAIRS TO EXISTING CONTAINMENT COATING. COORDINATE WITH OWNER. AN ALLOWANCE HAS BEEN INCLUDED FOR REPAIRS TO THE EXISTING COATING.
- FOLLOW MANUFACTURER'S INSTRUCTIONS FOR PREPARATION AND APPLYING COATING SYSTEM.
- COATING SHALL BE APPLIED MINIMUM 28 DAYS AFTER CONCRETE HAS BEEN PLACED.

DESIGN LOADS

- WIND LOADS: PER FLORIDA BUILDING CODE 2020 AND ASCE 7-16
-BASIC WIND SPEED: 178 MPH ULTIMATE (133 MPH ASD)
-IMPORTANCE FACTOR, I: 1.00 (RISK CATEGORY III)
-WIND EXPOSURE CATEGORY: C
- TANK FOUNDATION HAS BEEN DESIGNED FOR A TANK FILLED WITH JET FUEL (SPECIFIC GRAVITY = 0.82)
- FOUNDATION AND ANCHORAGE FOR TANKS HAS BEEN DESIGNED ACCORDING TO ASCE 24 – FLOOD RESISTANT DESIGN AND CONSTRUCTION.

-DESIGN FLOOD ELEVATION: 9.00 NAVD

DATE	
REVISIONS	



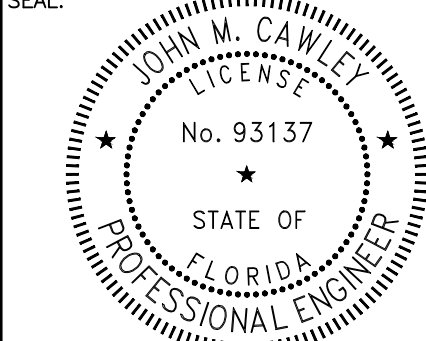

FUEL FARM IMPROVEMENTS PROJECT
NAPLES AIRPORT (APF)
STRUCTURAL GENERAL NOTES

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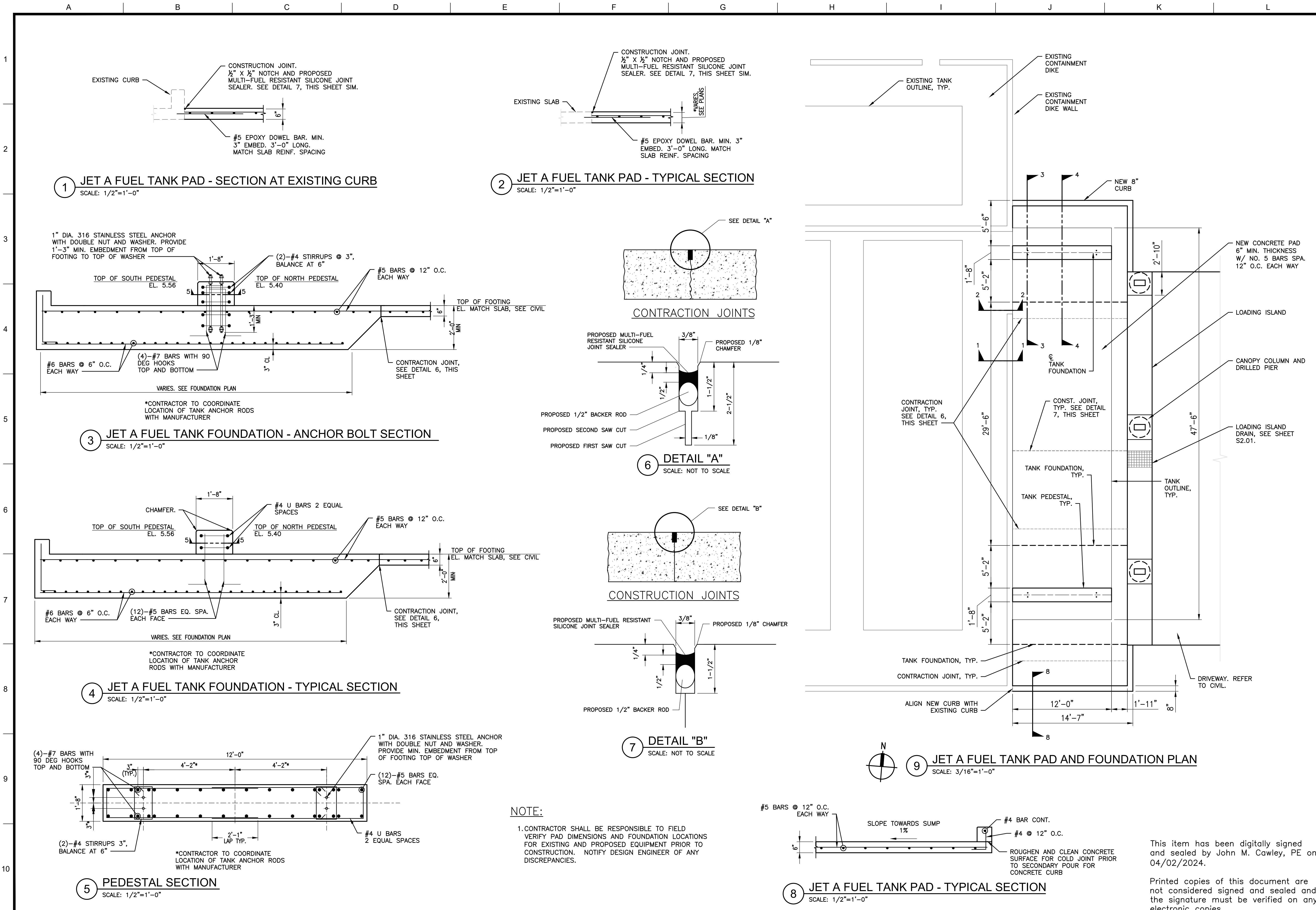
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DESIGNED BY: HEW DATE: 04/02/2024
DRAWN BY: HEW PROJ. NO.: 22A0138_02
APPROVED BY: JMC FILE NAME: S0.01
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NOTE:

1. CONTRACTOR SHALL BE RESPONSIBLE TO FIELD VERIFY PAD DIMENSIONS AND FOUNDATION LOCATIONS FOR EXISTING AND PROPOSED EQUIPMENT PRIOR TO CONSTRUCTION. NOTIFY DESIGN ENGINEER OF ANY DISCREPANCIES.

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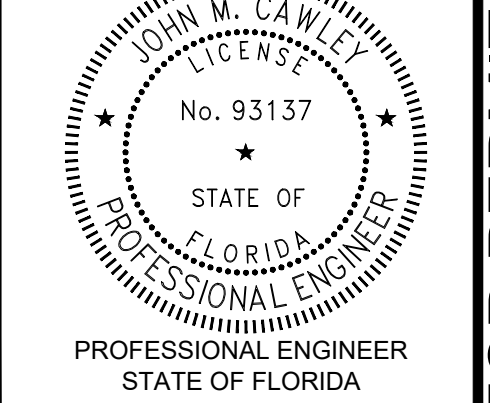
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FUEL FARM IMPROVEMENTS PROJECT	NAPLES AIRPORT (APF)	TANK PAD AND FOUNDATION PLAN AND DETAILS
PROJECT NAME	PROJECT LOCATION	DRAWING NAME

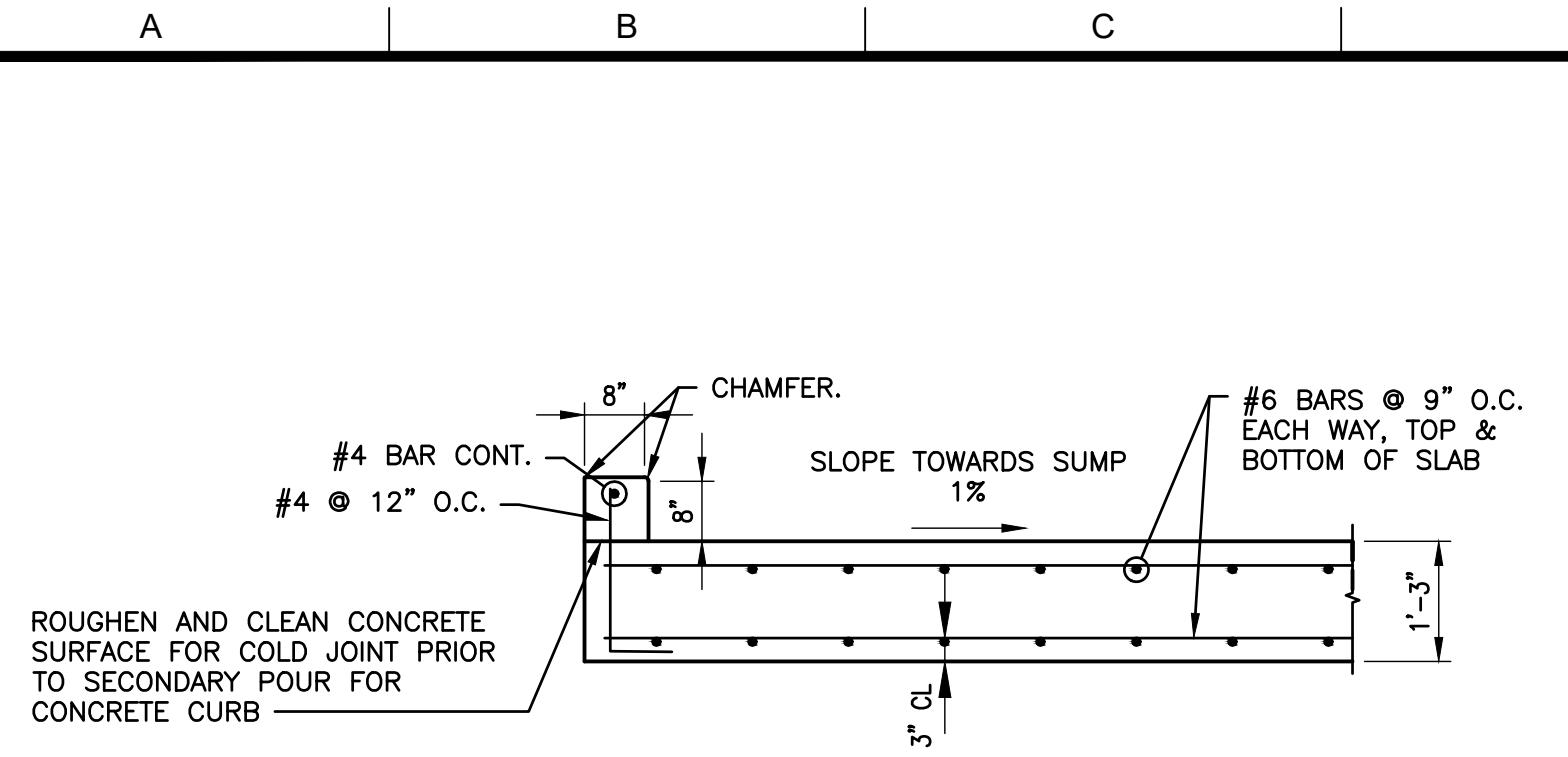
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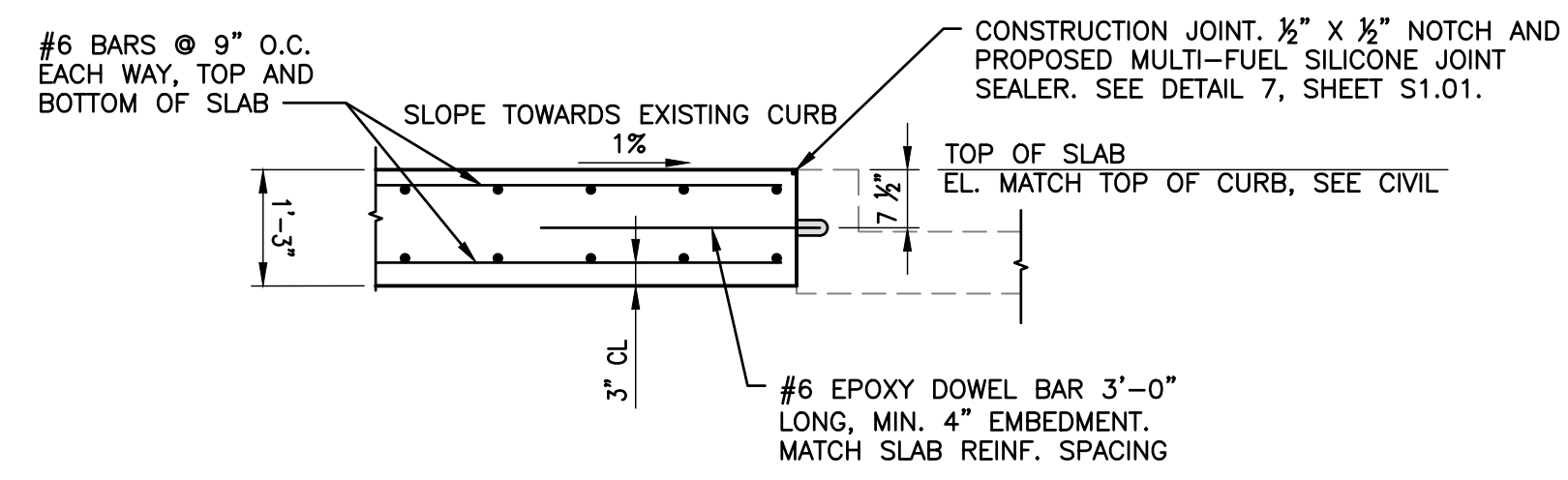
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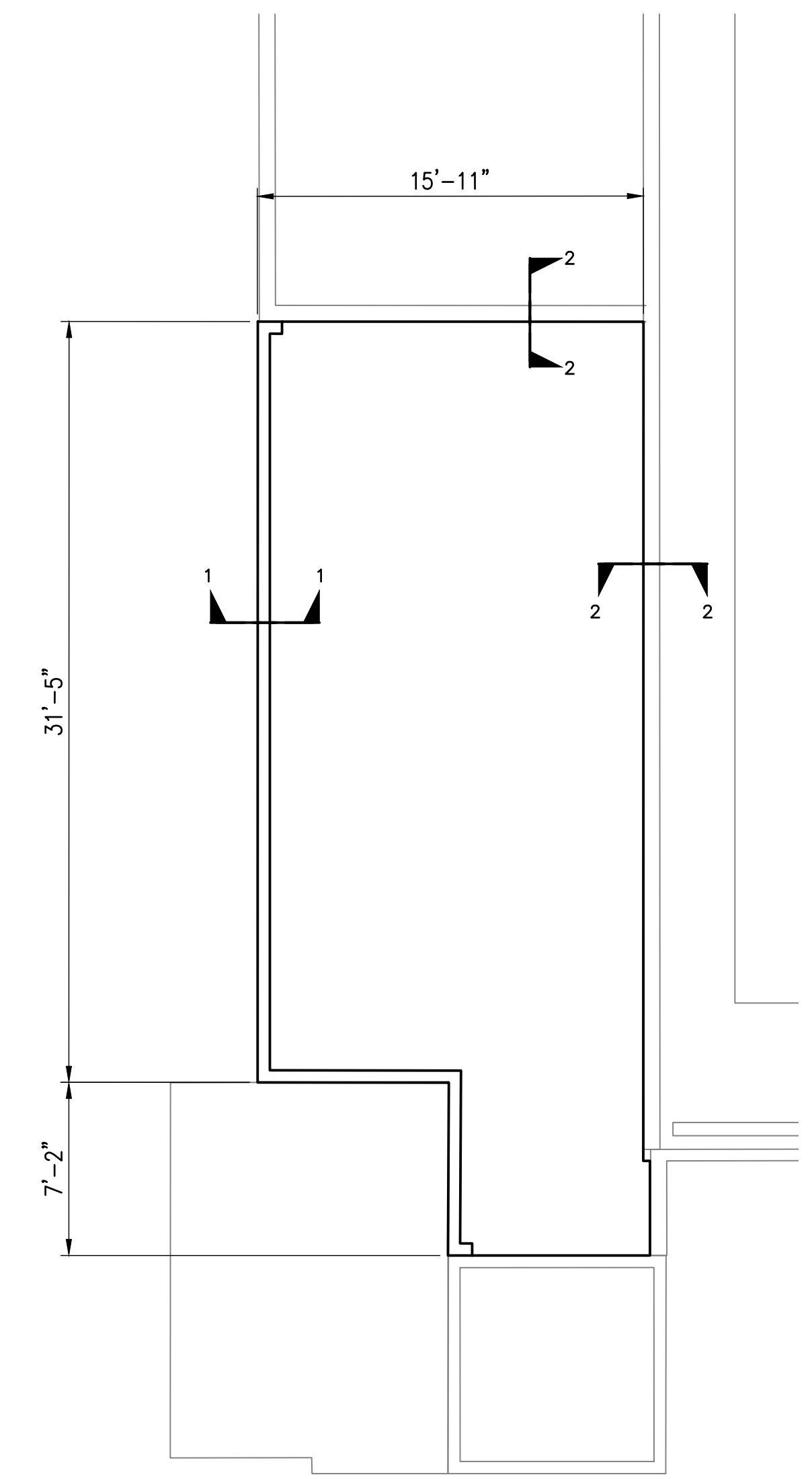
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1 RELOCATED OIL-WATER SEPARATOR - TYPICAL SECTION
SCALE: 1/2"=1'-0"



2 RELOCATED OIL-WATER SEPARATOR - TYPICAL SECTION
SCALE: 1/2"=1'-0"



3 RELOCATED OIL-WATER SEPARATOR FOUNDATION PLAN
SCALE: 3/16"=1'-0"

NOTE:

1. CONTRACTOR SHALL BE RESPONSIBLE TO FIELD VERIFY PAD DIMENSIONS AND FOUNDATION LOCATIONS FOR EXISTING AND PROPOSED EQUIPMENT PRIOR TO CONSTRUCTION. NOTIFY DESIGN ENGINEER OF ANY DISCREPANCIES.

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Naples AIRPORT

FUEL FARM IMPROVEMENTS PROJECT
NAPLES AIRPORT (APF)
OIL WATER SEPARATOR PAD FOUNDATION PLAN AND DETAILS

PROJECT NAME
PROJECT LOCATION
DRAWING NAME

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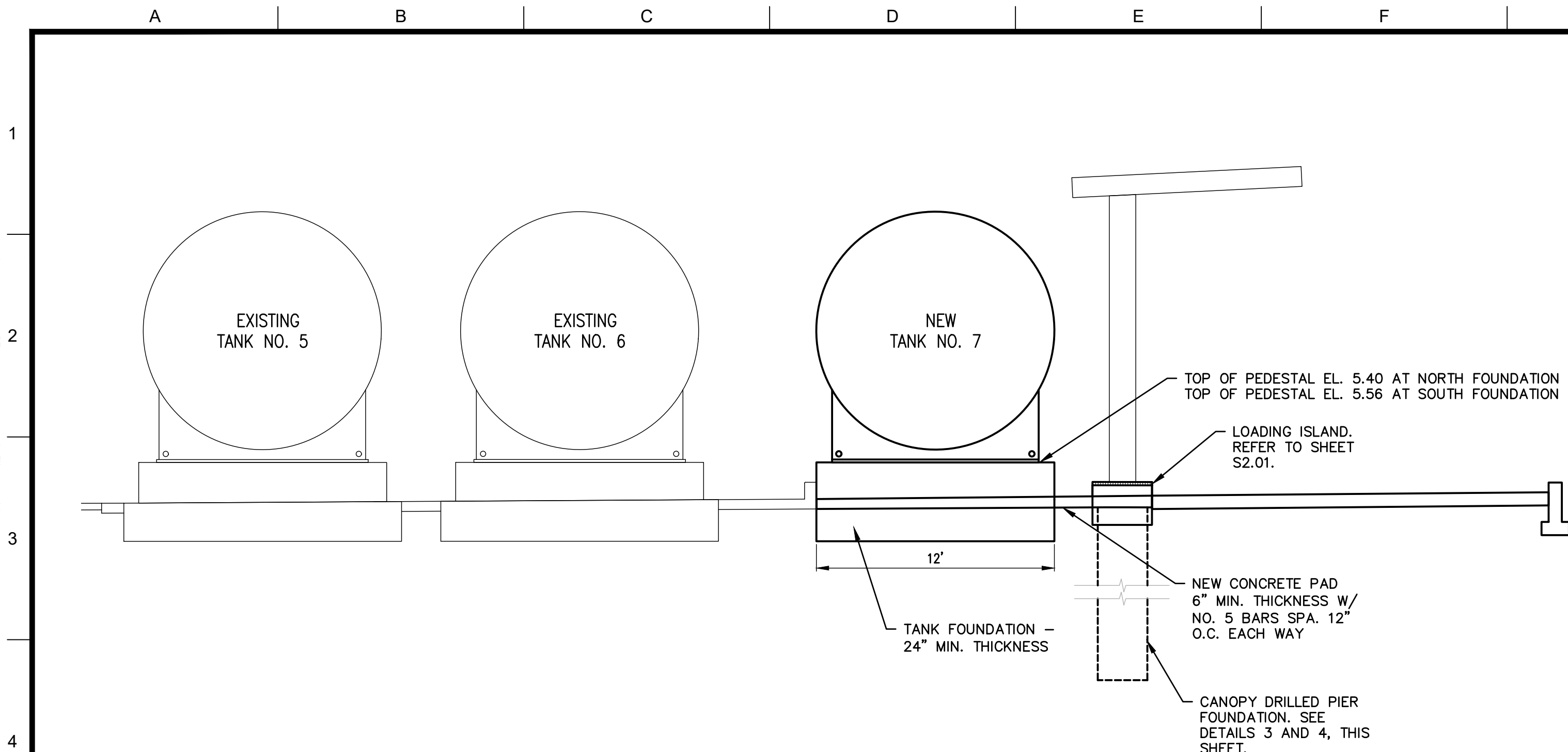
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JOHN M. CAWLEY
LICENSE
No. 93137
STATE OF FLORIDA
PROFESSIONAL ENGINEER
STATE OF FLORIDA

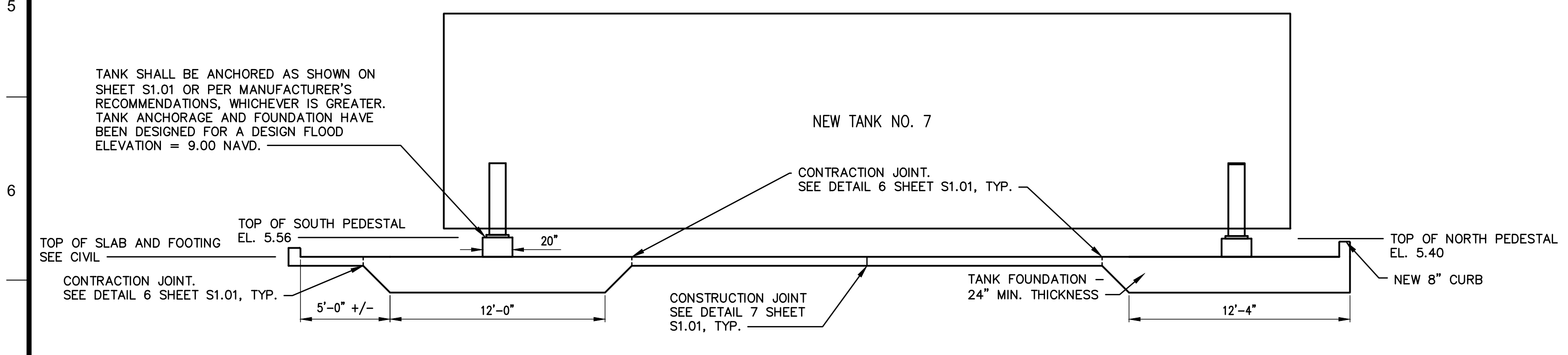
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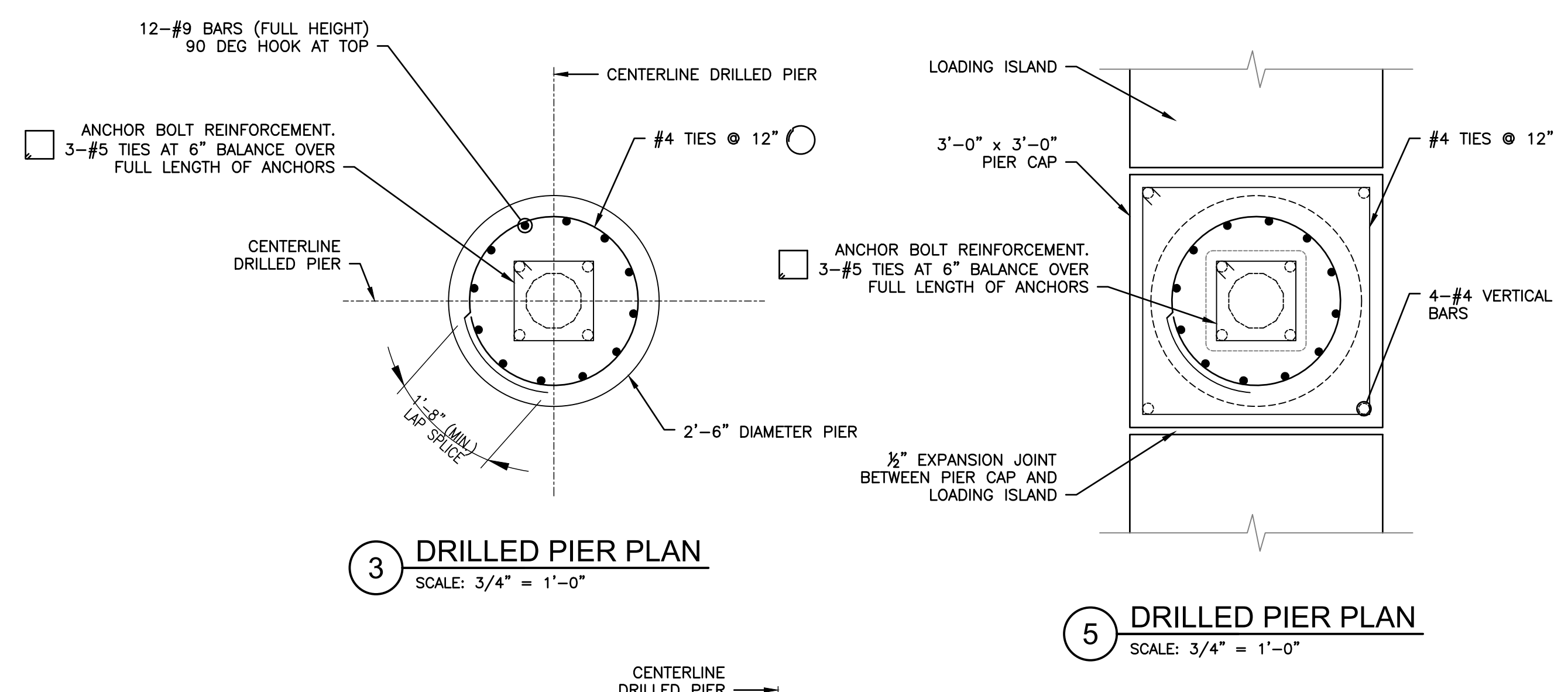


1 WEST-EAST SECTION THROUGH NEW TANK
SCALE: 1" = 5'-0"



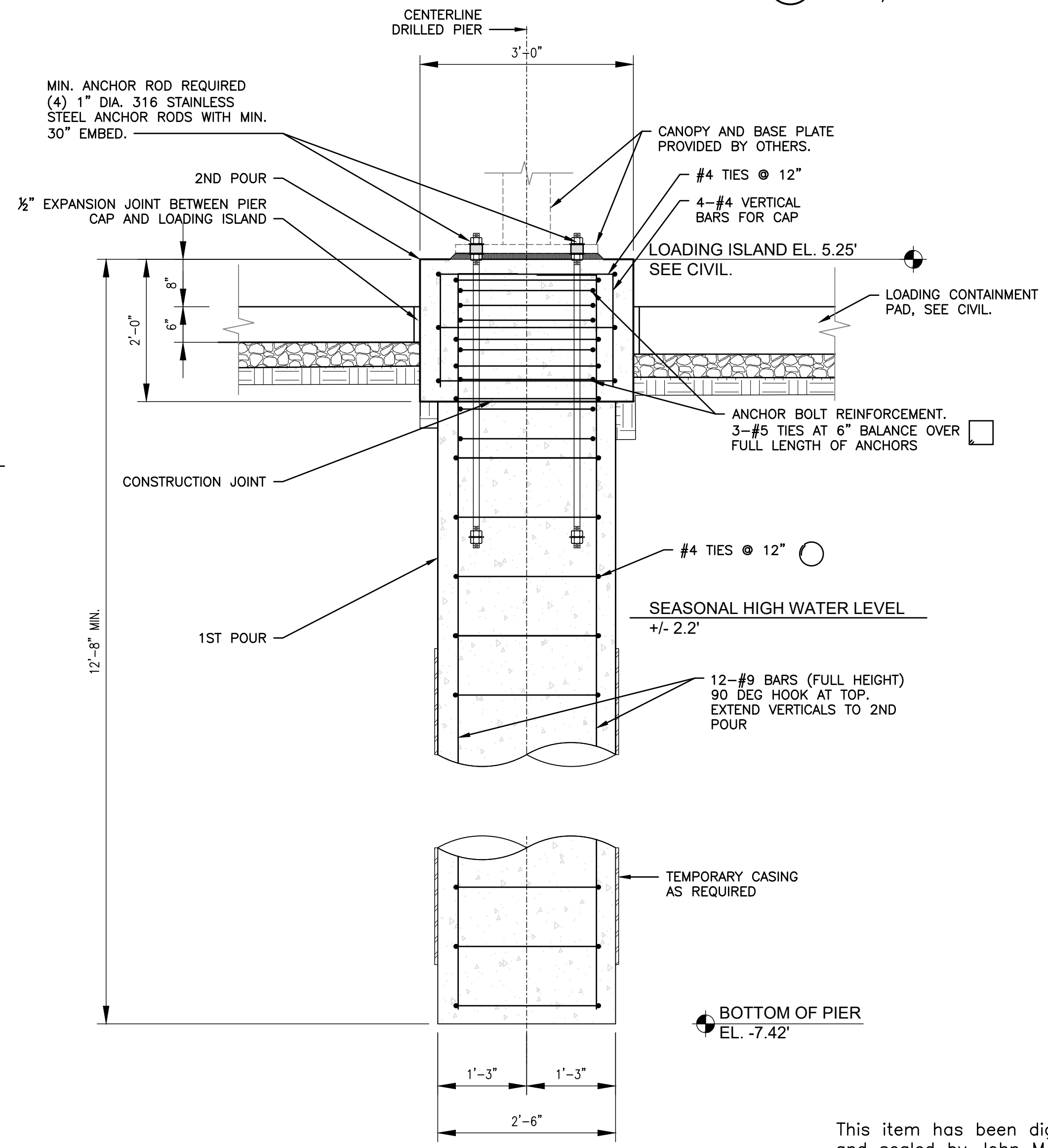
2 SOUTH-NORTH SECTION THROUGH NEW TANK
SCALE: 1" = 5'-0"

- NOTES:**
- EXISTING AND PROPOSED CATWALK NOT SHOWN. CATWALK REQUIRED FOR NEW JET A TANK SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. INTERFACE PROPOSED CATWALK TO EXISTING CATWALK. SEE FT SHTS.
 - SEE "STRUCTURAL NOTES" AND "TANK PAD AND FOUNDATION PLAN AND DETAILS" FOR INFORMATION ON FOUNDATIONS.
 - NEW TANK MANUFACTURER TO COORDINATE SADDLES AND ANCHORAGE DESIGN WITH FLOOD LOADS DUE TO A FLOOD ELEVATION = 9.00 NAVD.



3 DRILLED PIER PLAN
SCALE: 3/4" = 1'-0"

5 DRILLED PIER PLAN
SCALE: 3/4" = 1'-0"

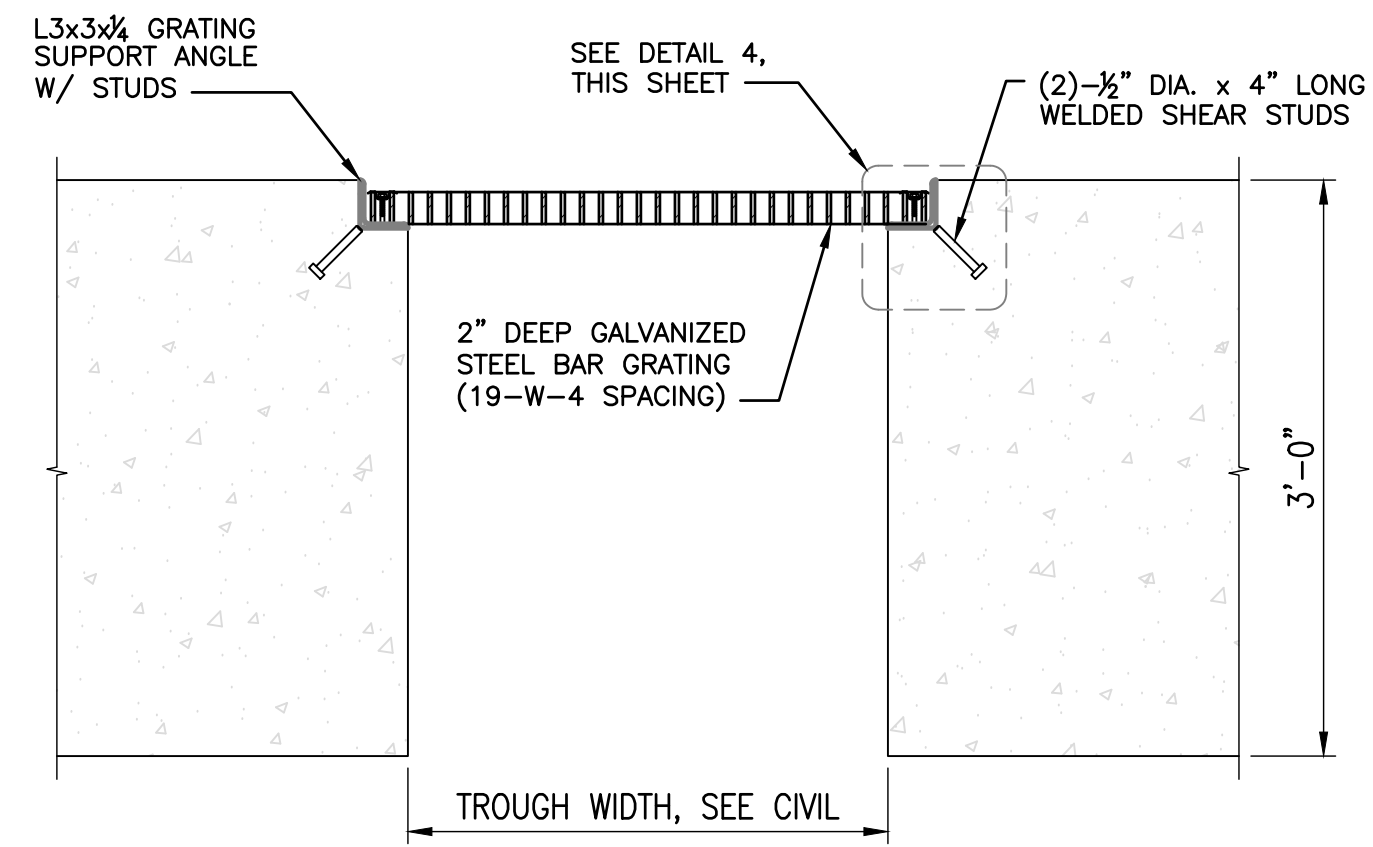
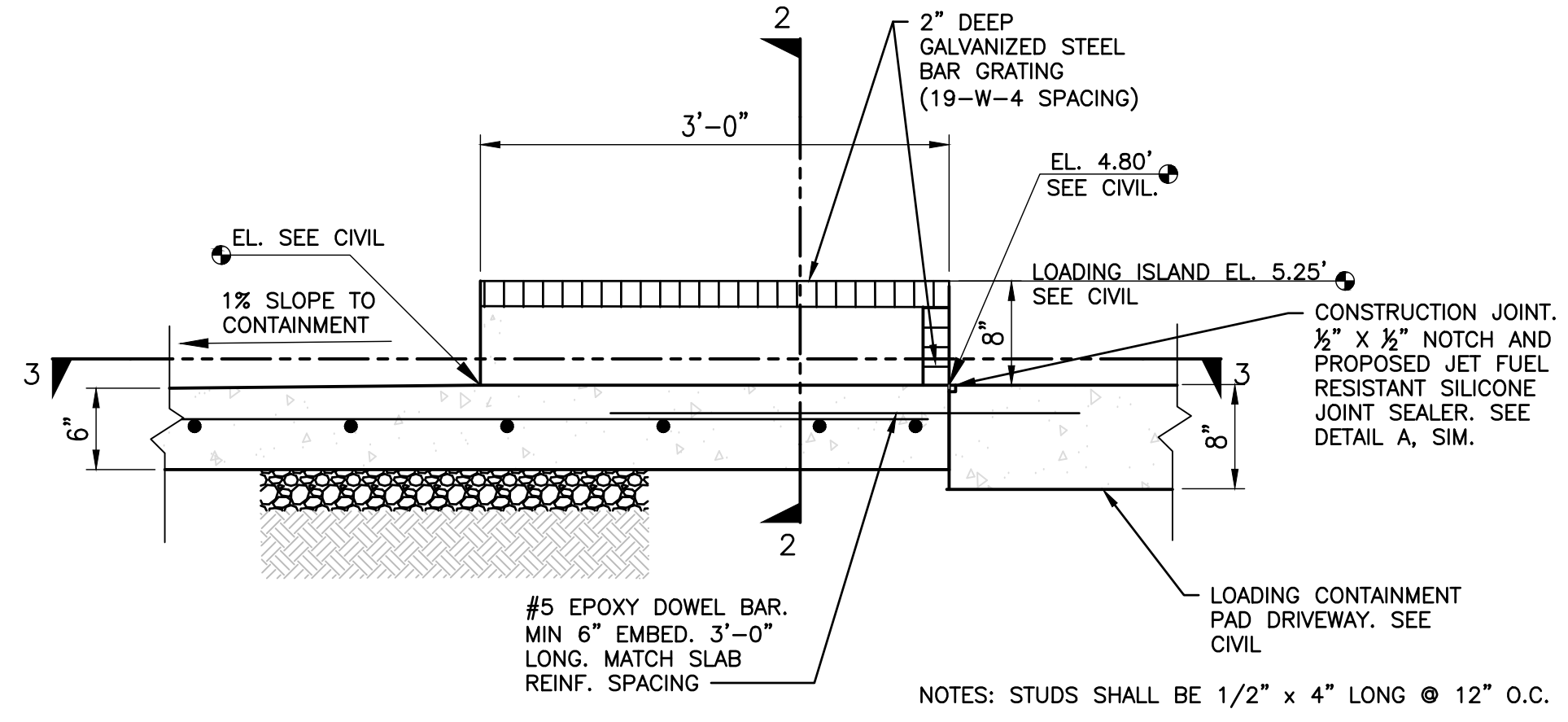


4 DRILLED PIER ELEVATION
SCALE: 3/4" = 1'-0"

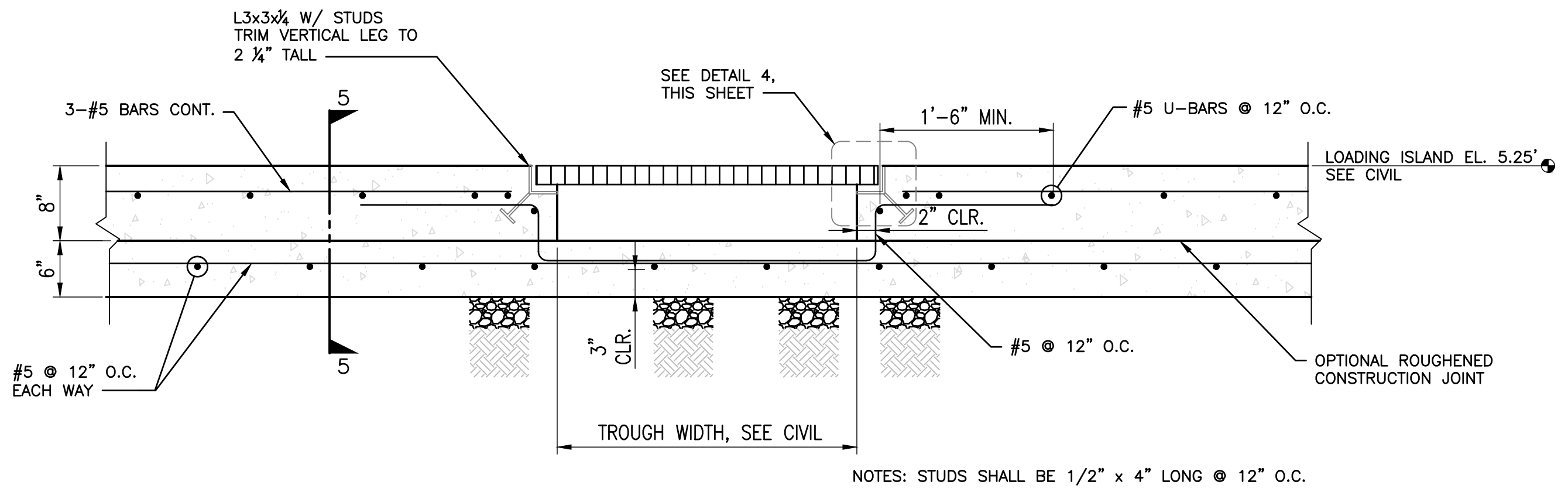
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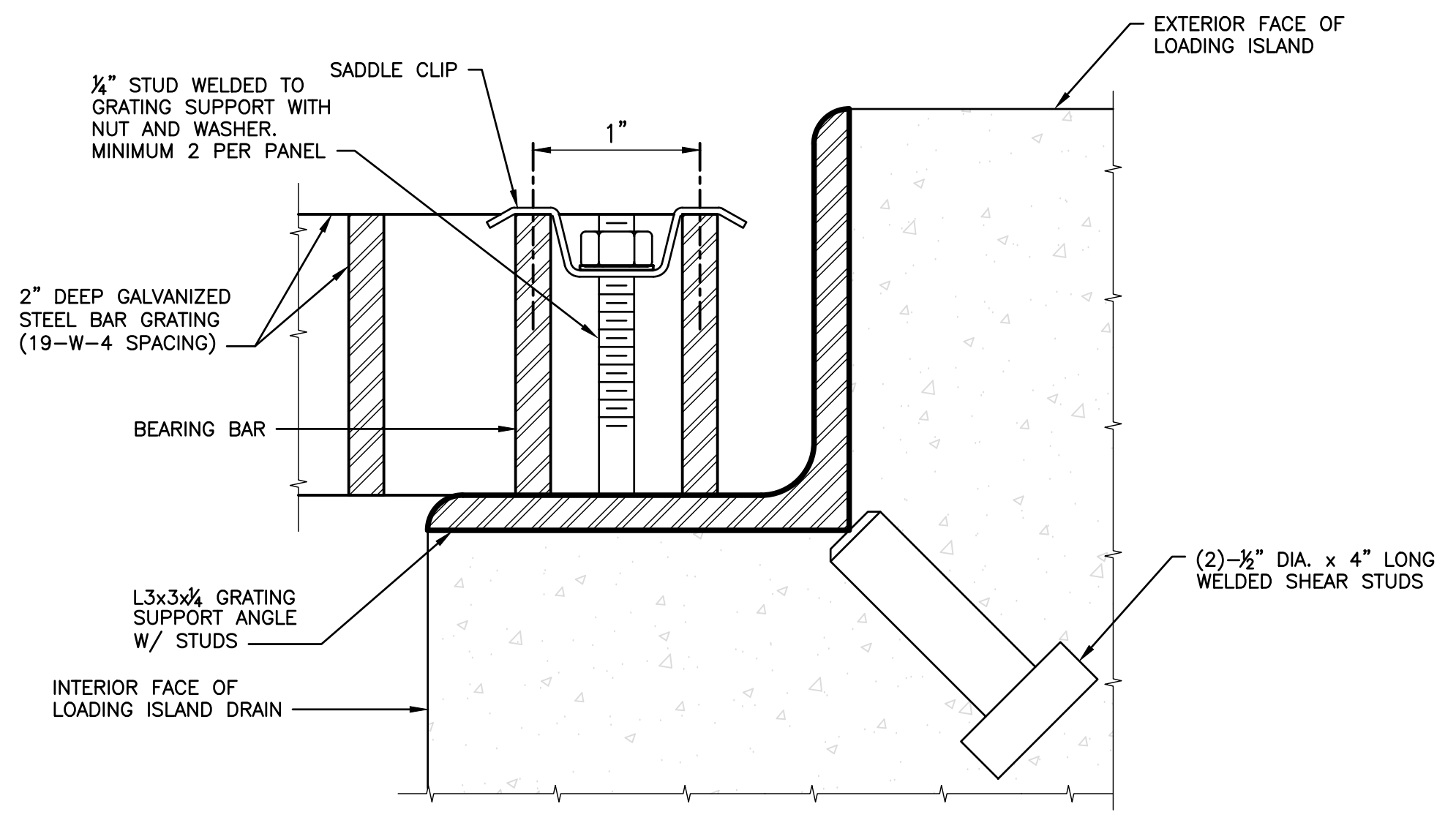
DATE	
REVISIONS	
FUEL FARM IMPROVEMENTS PROJECT NAPLES AIRPORT (APF) FUEL FACILITY SECTIONS	
PROJECT NAME	
PROJECT LOCATION	
DRAWING NAME	
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DESIGNED BY: HEW	DATE: 04/02/2024
DRAWN BY: HEW	PROJ. NO: 22A0138_02
APPROVED BY: JMC	FILE NAME: S1.03
SHEET NUMBER:	S1.03



3 ISLAND THROUGH DRAIN PLAN
SCALE: 1" = 1'-0"

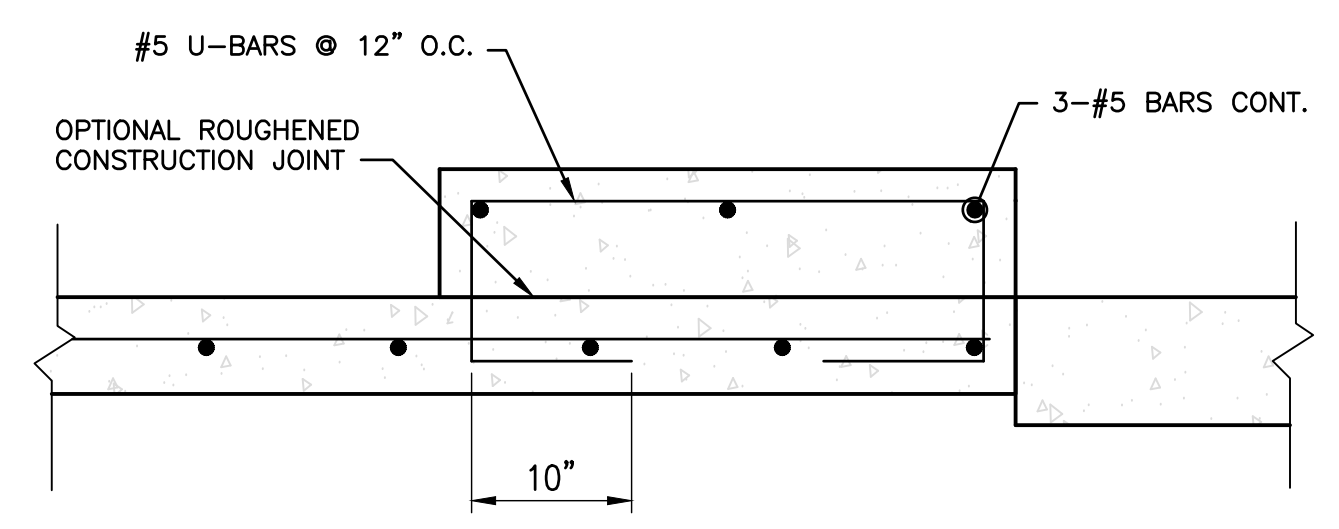


2 ISLAND THROUGH DRAIN DETAIL
SCALE: 1" = 1'-0"



4 ISLAND THROUGH GRATING SUPPORT
SCALE: 1" = 1'-0"

NOTE:
1. ALL STEEL COMPONENTS TO BE HOT-DIP GALVANIZED PER ASTM A123.



5 TYPICAL SECTION THROUGH ISLAND
SCALE: 1" = 1'-0"

DATE	
REVISIONS	

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ENGINEERING MANAGEMENT CONSULTING

Naples AIRPORT

FUEL FARM IMPROVEMENTS PROJECT
NAPLES AIRPORT (APF)
LOADING ISLAND DETAILS

PROJECT NAME	PROJECT LOCATION	DRAWING NAME
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STATE OF FLORIDA

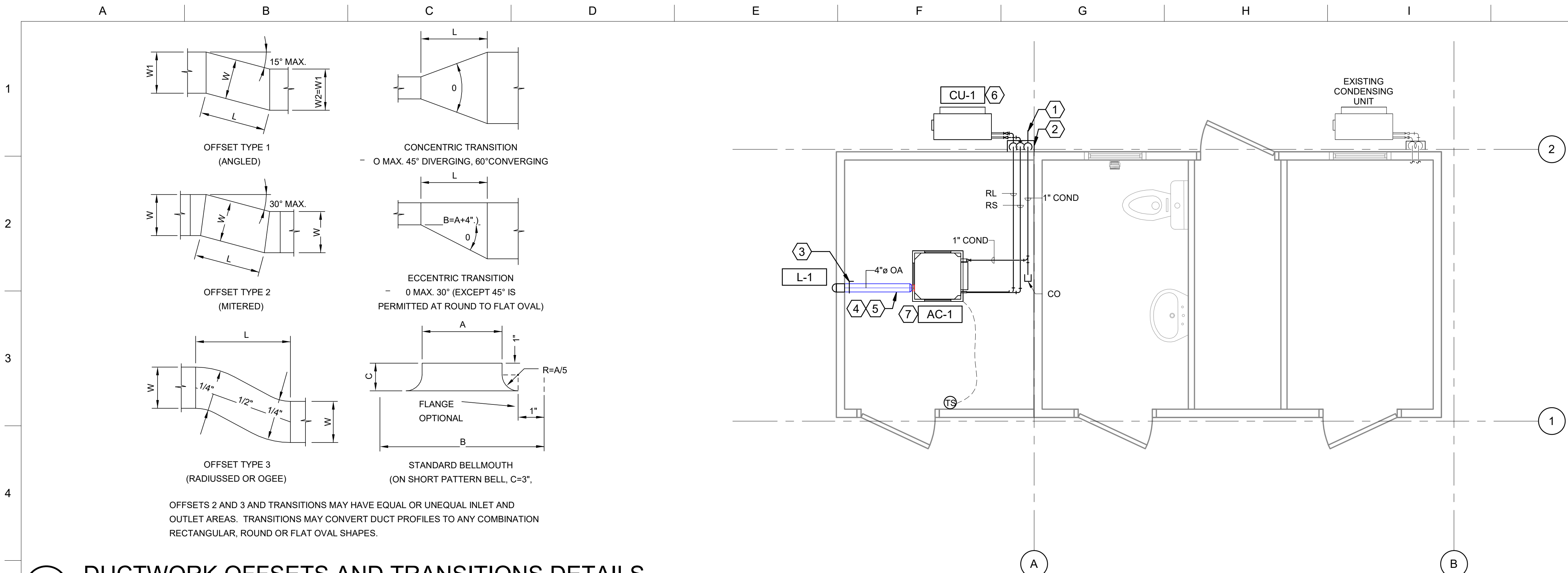
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DRAWN BY:	HEW	PLOT NO.:	22A0138_02
APPROVED BY:	JMC	FILE NAME:	S2.01
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GENERAL SHEET NOTES

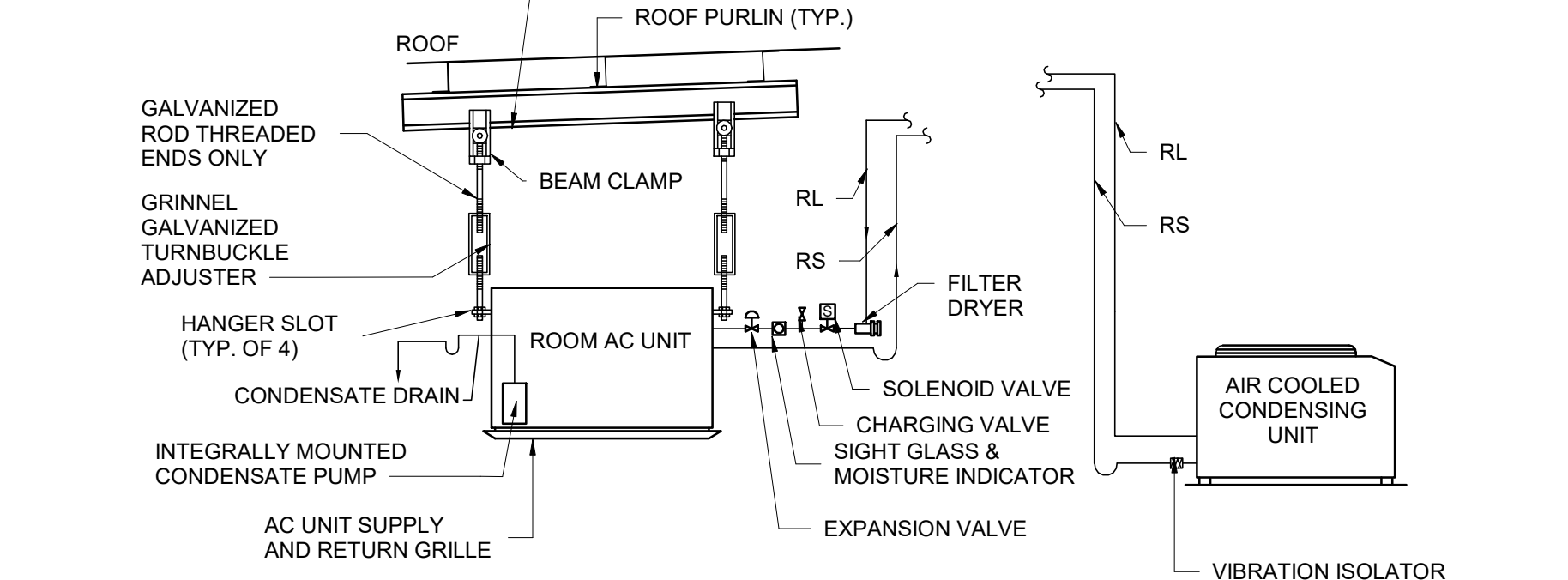
- REFER TO MECHANICAL GENERAL NOTES ON SHEET M-001.
- REFER TO SPECIFICATIONS.

SHEET KEYNOTES

- CONTRACTOR TO ROUTE 1" CONDENSATE LINE TO DISCHARGE ON TO CONCRETE.
- CONTRACTOR TO PROVIDE STAINLESS STEEL REFRIGERANT PIPE COVER FOR NEW CONDENSING UNIT, SIMILAR TO THE EXISTING PIPE COVER FOR THE RESTROOM PORTION OF THE EXISTING BUILDING.
- CONTRACTOR TO BALANCE OA DAMPER TO 20 CFM.
- SLOPE OUTSIDE AIR DUCTWORK TO FOLLOW THE ROOFLINE.
- CONTRACTOR TO PROVIDE 4" BACKDRAFT DAMPER.
- INSTALL CONDENSING UNIT IN ACCORDANCE TO ALL MANUFACTURER REQUIRED CLEARANCES FOR ALL SIDES OF THE UNIT.
- COORDINATE AC-1'S EXACT LOCATION AND ELEVATION WITH LIGHTING FIXTURES IN THIS AREA.

2 DUCTWORK OFFSETS AND TRANSITIONS DETAILS

SCALE: NTS



1 FUEL FACILITY EQUIPMENT SHELTER ADDITION HVAC PLAN

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

SYMBOL	SERVICE	CFM	DIAMETER (IN.)	FREE AREA VEL. FPM	S.P. IN. W.C.	MANUFACTURER	MODEL	REMARKS
L-1	OUTDOOR AIR	20	4"	500	0.04	SEIHO	SFX-N 4	ALL

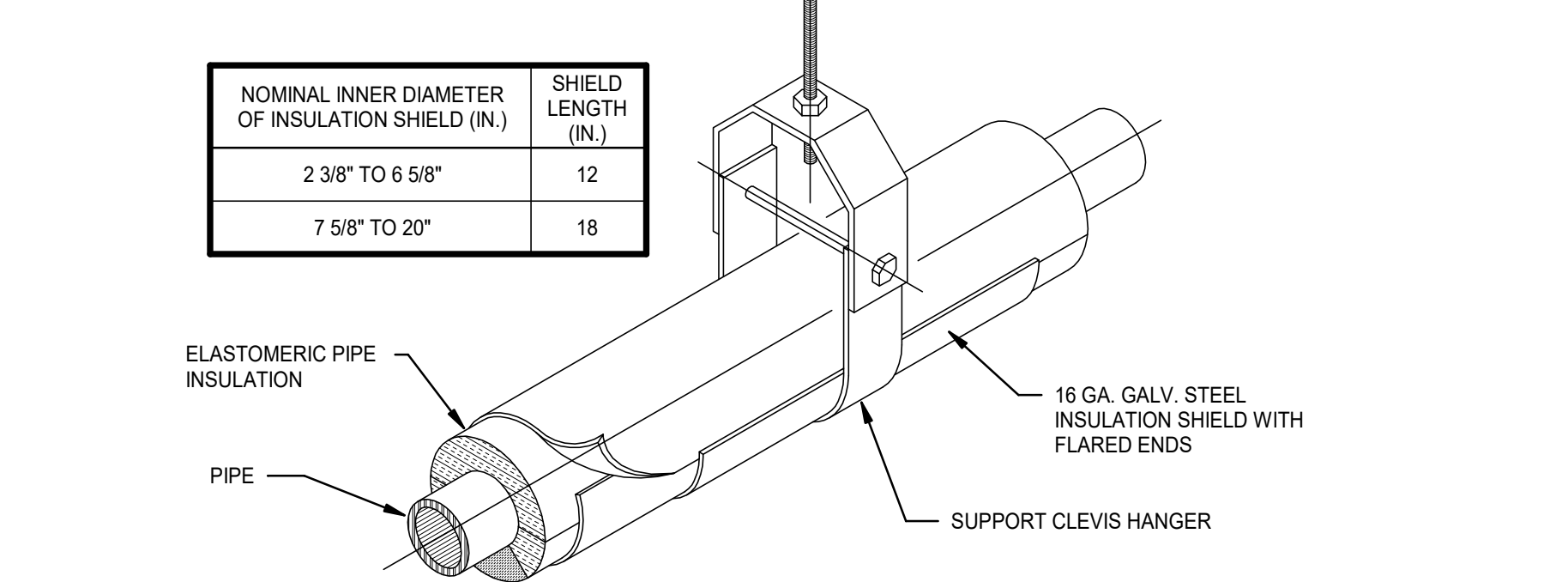
NOTES:
1. ANODIZED ALUMINUM HOODED VENT CAP. COLOR AS SELECTED BY OWNER FROM MANUFACTURER'S FULL RANGE.
2. REMOVABLE INSECT-SCREEN.

UNIT NO.	SERVING	FAN DATA				UNIT ELECTRICAL DATA			SELECTION BASED ON		REMARKS
		TOTAL CFM	OA CFM	SEER/SEER 2 @ ARI	HSPF / HSFP2 @ ARI	VOLT	PH	FAN FLA	MANUFACTURER	MODEL	
AC-1	NEW ADDITION	207-239-270	20	22.4 / 24.0	12.2 / 10.0	208/230	1	0.29	TRANE	NTXKS09A112BA	ALL

NOTES:
1 INDOOR UNIT POWERED FROM OUTDOOR UNIT
2 PROVIDE MANUFACTURER'S WIRED 7 DAY PROGRAMMABLE THERMOSTAT
3 LOW AMBIENT COOLING TO 14 F
4 CASSETTE-STYLE INDOOR UNIT
5 UNIT SHALL HAVE BUILT-IN CONDENSATE PUMP WITH 33" LIFT
6 PROVIDE CONDENSATE FLOAT SWITCH WIRED TO SHUT DOWN THE SYSTEM IN THE EVENT OF A HIGH CONDENSATE LEVEL

3 DUCTLESS SPLIT SYSTEM PIPING DETAIL

SCALE: NTS



UNIT NO.	SERVING	COOLING DATA		HEATING DATA AT 17F	FAN MOTOR				COMPRESSOR DATA			UNIT ELECTRICAL DATA				SELECTION BASED ON		REMARKS	
		CAPACITY MBH	COND. EAT F	CAPACITY MBH	NO.	WATTS	VOLT	PH	QUANTITY	VOLT	PH	VOLT	PH	FAN FLA	MCA	MOCF	MANUFACTURER		MODEL
CU-1	AC-1	9	95	6.9	1	55	208/230	1	1	208/230	1	208/230	1	0.5	9	15	TRANE	NTXKS09A112AA	ALL

NOTES:
1 HEAT PUMP OUTDOOR UNIT
2 SECURE UNIT TO BUILDING CONCRETE PAD AND PROVIDE HURRICANE TIE-DOWNS. SUBMIT SIGN AND SEALED ENGINEERING DRAWINGS OF TIE-DOWNS FOR APPROVAL.

4 INSULATED PIPE SUPPORT DETAIL

SCALE: NTS

DATE: _____

REVISIONS:

PROJECT NAME	FUEL FACILITY EXPANSION
PROJECT LOCATION	FUEL FARM IMPROVEMENTS PROJECT
DRAWING NAME	FUEL FACILITY EQUIPMENT SHELTER ADDITION HVAC PLAN

100% DESIGN

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SEAL: PAUL L. HOLLOWAY
No. 90175
STATE OF FLORIDA
PROFESSIONAL ENGINEER
PROFESSIONAL ENGINEER
STATE OF FLORIDA

DESIGNED BY: LMW DATE: 04/02/2023
DRAWN BY: LMW PROJ. NO.: 22A0138
APPROVED BY: PLH
SHEET NUMBER: M-2

This item has been digitally signed and sealed by Paul L Holloway, PE on 04/02/2024

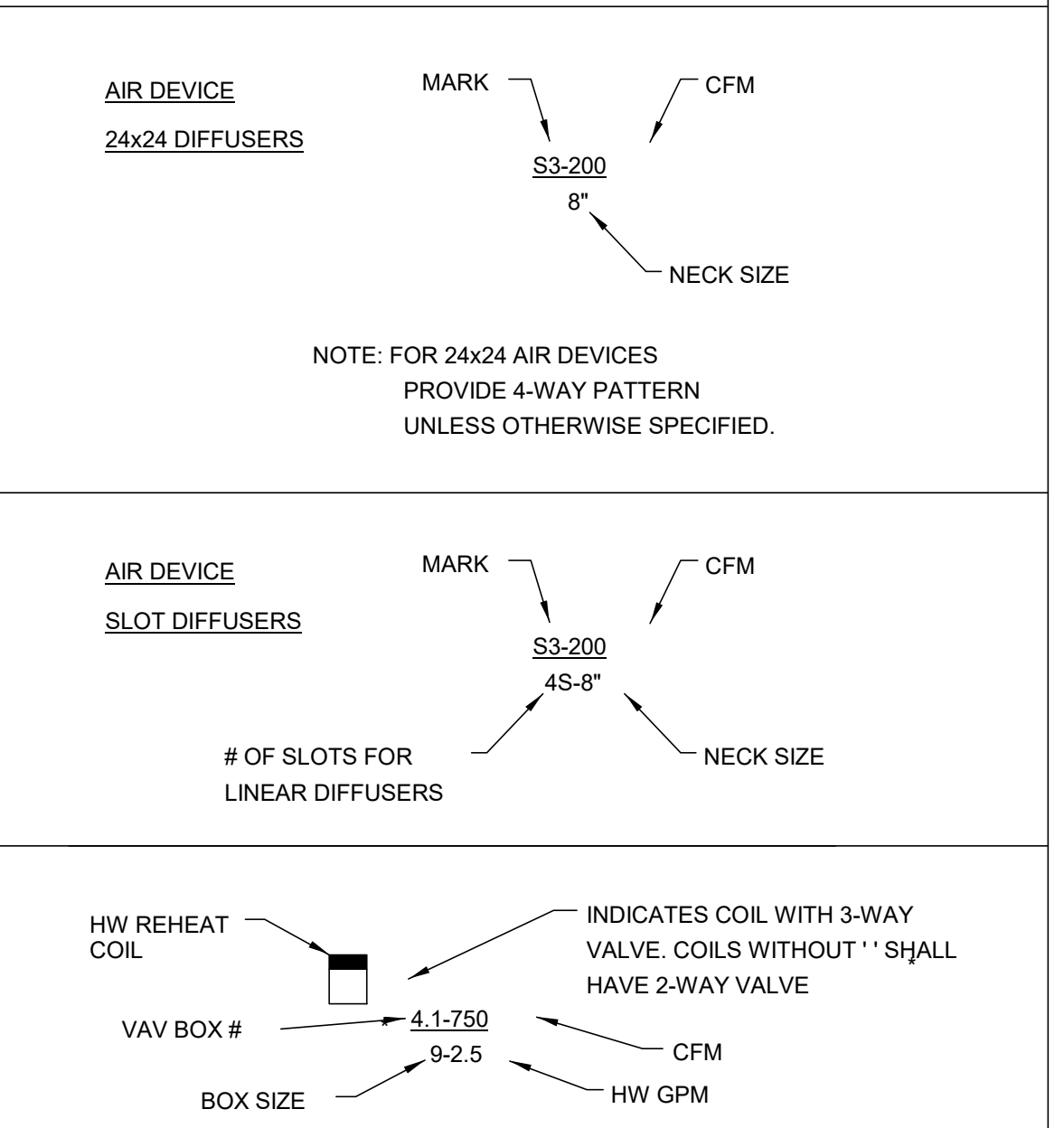
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	A	B	C	D	E	F	G
1	MECHANICAL SYMBOLS (PIPING)		MECHANICAL SYMBOLS (HVAC)		MECHANICAL LEGEND (PIPING)		
		UNION JOINT	OA	OUTDOOR AIR			
		FLANGE JOINT	SA	SUPPLY AIR			
		"Y" STRAINER	EA	EXHAUST AIR			
		TEE - UP, BRANCH OUT OF TOP	RA	RETURN AIR			
		TEE - DOWN, BRANCH OUT OF BOTTOM	AFF	ABOVE FINISHED FLOOR			
		ELBOW - UP	TDE	TOP DUCT ELEVATION			
		ELBOW - DOWN	RBJ	RUN BETWEEN JOIST			
		RISE OR DROP	MD	MOTORIZED DAMPER			
		DIRECTION OF FLOW	ACC	AIR COOLED CONDENSER			
2		SLEEVE THRU WALL	PH	PENTHOUSE (INTAKE OR RELIEF)			
		RELIEF AIR	RLFA	RELIEF AIR			
		CAP ON END OF PIPE	M	MOTORIZED DAMPER			
		AIR VENT, MANUAL (MAV)	T _X	THERMOSTAT (X = COIL OR BOX NUMBER)			
		THERMOMETER, THERMOMETER WELL	N	NIGHT SETBACK STAT			
		PRESSURE GAUGE WITH GAUGE COCK	H	HUMIDISTAT			
		PUMP (TRIANGLE POINTS IN DIR. OF FLOW)		VAV BOX TAG			
		FLOW SWITCH		REHEAT OR BOOSTER COIL TAG			
		PRESSURE SWITCH		CEILING SUPPLY AND RETURN AIR DEVICE			
		GATE VALVE		AIR DEVICE DESIGNATION			
3		CHECK VALVE		DUCT SIZE DESIGNATION. SIDE SHOWN IS FIRST DIMENSION. SIZE SHOWN IS INTERNAL CLEAR OPENING. SHEET METAL SIZE MUST BE INCREASED FOR INTERNAL INSULATION, WHERE SPECIFIED			
		AUTOMATIC CONTROL VALVE, PNEUMATIC STRAIGHT THRU OR THREE - WAY AS INDICATED		TURNING VANES (NUMBER OF VANES SHALL BE BASED ON ACTUAL DUCT SIZE & NOT ON SCHEMATIC SYMBOL ON DRAWING)			
		COMBINATION BALANCE & SHUTOFF VALVE WITH PRESSURE TAPS		EXHAUST DUCT			
		BALL VALVE		RETURN OR OUTSIDE AIR DUCT			
		PLUG VALVE		DISCHARGE OR SUPPLY DUCT			
		GAUGE COCK		FLEXIBLE DUCT CONNECTION			
		REDUCED PRESSURE BACK FLOW PREVENTER		FLEXIBLE DUCT			
		PRESSURE - TEMPERATURE RELIEF VALVE		VOLUME DAMPER (VD)			
		PRESSURE REGULATING VALVE (STEAM, AIR & WATER, ARROW POINTS TO LOWER PRESSURE.)		ACCESS PANEL (AP) ACCESS DOOR (AD)			
		VENTURI FLOW MEASURING STATION		FIRE DAMPER (F) SMOKE DAMPER (S)			
4		FLEXIBLE PIPE CONNECTION		MOTORIZED DAMPER (ELEC. OR PNEU.)			
		BUTTERFLY VALVE		INCLINE DROP IN DIRECTION OF ARROW			
		SOLENOID VALVE		INCLINE RISE IN DIRECTION OF ARROW			
		PRESSURE RELIEF VALVE TAG		TRANSITIONS: GIVE SIZES. FOT = FLAT ON TOP OR FOB = FLAT ON BOTTOM (IF APPLICABLE)			
		ACCESS PANEL (AP)					
		ACCESS DOOR (AD)					
		FIRE DAMPER (F)					
		SMOKE DAMPER (S)					
		MOTORIZED DAMPER (ELEC. OR PNEU.)					
		INCLINE DROP IN DIRECTION OF ARROW					
5		INCLINE RISE IN DIRECTION OF ARROW					
		TRANSITIONS: GIVE SIZES. FOT = FLAT ON TOP OR FOB = FLAT ON BOTTOM (IF APPLICABLE)					
		TRANSITIONS: GIVE SIZES. FOT = FLAT ON TOP OR FOB = FLAT ON BOTTOM (IF APPLICABLE)					
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		TRANSITIONS: GIVE SIZES. FOT = FLAT ON TOP OR FOB = FLAT ON BOTTOM (IF APPLICABLE)					

MECHANICAL SYMBOLS (GENERAL)

	X = SECTION [LETTER] OR DETAIL [NUMBER] Z = WHERE DETAIL OR SECTION IS SHOWN
	HEX NOTES ON DRAWINGS & SCHEDULES
	REVISIONS
	ROOM NUMBERS
	EQUIPMENT TAGS (XX = MARKS BELOW)
	AHU = AIR HANDLING UNIT
	AS = AIR SEPARATOR
	FCU = FAN COIL UNIT
	CH = CHILLER
	CT = COOLING TOWER
	EF = EXHAUST FAN
	HX = HT. EXCHANGER
	CU = CONDENSING UNIT
	EHC = ELECTRIC HEATING COIL
	UH = UNIT HEATER
	RTU = ROOFTOP UNIT
	POINT OF DISCONNECT
	POINT OF CONNECT

AIR DEVICE LEGEND



GENERAL NOTES

- BEFORE SUBMITTING BID, CONTRACTOR SHALL VISIT THOSE PORTIONS OF THE BUILDING AND SITE AFFECTED BY THIS WORK SO AS TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND DIFFICULTIES THAT MAY AFFECT EXECUTION OF THE WORK. SUBMISSION OF A BID DENOTES THAT SUCH EXAMINATION HAS BEEN MADE AND CLAIMS FOR LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED MAY NOT BE RECOGNIZED. SUBMIT ANY QUESTIONS REQUIRED TO CLARIFY SCOPE PRIOR TO BID. INCLUDE ALL REQUIRED WORK IN BID PRICE.
- ALL DUCT SIZES INDICATED ON THE DOCUMENTS ARE NET FREE AREA DIMENSIONS.
- UNFORESEEN SITE CONDITIONS MAY EXIST AND EXISTING UTILITIES MAY NOT BE FIELD LOCATED EXACTLY AS SHOWN ON THE DRAWINGS. COOPERATION WITH OTHER TRADES IN ROUTING AND/OR BURIAL DEPTHS AS DETERMINED DURING CONSTRUCTION AND AS DIRECTED BY THE ARCHITECT/ENGINEER MAY BE NECESSARY. IT IS INTENDED THAT SUCH DEVIATIONS SHALL BE CONSIDERED AS PART OF THIS CONTRACT. SUCH DEVIATIONS MAY NOT BE CONSIDERED AS PART OF THIS CONTRACT WHEN PROPERLY DOCUMENTED IN WRITING.
- WORK SHALL BE PERFORMED IN COMPLIANCE WITH THE ESTABLISHED WORK SCHEDULE SET FORTH BY OWNER. COORDINATE ALL WORK WITH GENERAL CONTRACTOR.
- UNLESS OTHERWISE NOTED, ALL CONCRETE PATCHING, WALL PATCHING, CEILING REPAIR, FENCE WORK AND OTHER GENERAL CONSTRUCTION WORK REQUIRED FOR INSTALLING MECHANICAL SYSTEMS SHALL BE PROVIDED BY THE CONTRACTOR RESPONSIBLE FOR SAID WORK. THAT CONTRACTOR SHALL FULLY COORDINATE THAT WORK WITH GENERAL CONTRACTOR USING THE APPROPRIATE CONSTRUCTION TRADES.
- ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BE UL LISTED WHERE APPLICABLE.
- PENETRATION OF THE ROOF DECK WILL NOT BE ACCEPTABLE FOR SUPPORT OF DUCTWORK, PIPING EQUIPMENT OR ANY OTHER DEVICES. ALL SUPPORTS SHALL SPAN BETWEEN THE STRUCTURAL ELEMENTS TO SUPPORT THE MECHANICAL EQUIPMENT.
- DRAWINGS ARE DIAGRAMMATIC IN NATURE AND SHOULD NOT BE SCALED. COORDINATE EXACT LOCATION OF ALL CEILING MOUNTED EQUIPMENT SO ALL SERVICEABLE COMPONENTS CAN BE EASILY ACCESSED BY REMOVING CEILING TILES ONLY. REMOVAL OR RELOCATION OF LIGHTING FIXTURES FOR SERVICE ACCESS IS NOT ACCEPTABLE. THE CONTRACTOR SHALL REINSTALL EQUIPMENT THAT HAS INADEQUATE OR UNSAFE ACCESSIBILITY. LOCATE ALL OTHER EQUIPMENT WITH MANUFACTURER RECOMMENDED ACCESS FOR OPERATION AND MAINTENANCE. INSTALL EQUIPMENT WITH PROPER ELECTRICAL CODE CLEARANCES.
- WHENEVER A REFERENCE IS MADE TO A STANDARD, THE WORK SHALL COMPLY WITH THE LATEST PUBLISHED EDITION OF THE STANDARD AT THE TIME THE PROJECT IS BID UNLESS OTHERWISE SPECIFIED.
- ALL MATERIAL STORED ON SITE SHALL BE PROPERLY PROTECTED FROM DAMAGE OR DETERIORATION. MATERIAL SHALL NOT BE STORED IN CONTACT WITH THE GROUND. ALL DUCTWORK AND EQUIPMENT, WHETHER INSTALLED OR NOT, SHALL BE SEALED AT ANY OPENING.
- DUCTWORK SHALL BE SHEET METAL, EXTERNALLY WRAPPED UNLESS OTHERWISE NOTED, MIN. 26 GA. AND CONSTRUCTED IN STRICT ACCORDANCE WITH SMACNA STANDARDS.
- ALL INSULATION USED FOR DUCTWORK SHALL BE INSTALLED THICKNESS REQUIRED BY THE DRAWINGS AND SPECIFICATIONS. INSULATION MATERIAL SHALL MEET NFPA 90A REQUIREMENTS AND SHALL HAVE COMPOSITE FIRE AND SMOKE HAZARD RATING AS TESTED IN ACCORDANCE WITH UL 723 NOT EXCEEDING FLAME SPREAD INDEX OF 25 AND SMOKE DEVELOPED INDEX OF 50. REFER TO SPECIFICATION SECTION 23 07 13.
- REFER TO DIVISION 23 SPECIFICATIONS FOR ADDITIONAL INFORMATION AND ALL REQUIREMENTS NOT INDICATED ON THE DRAWINGS. IF THERE ARE ANY APPARENT CONFLICTS BETWEEN THE SPECIFICATIONS AND DRAWINGS, THE MORE STRINGENT REQUIREMENTS SHALL APPLY. NOTIFY THE ARCHITECT/ENGINEER OF ANY CONFLICTS PRIOR TO PURCHASING EQUIPMENT AND PRIOR TO CUTTING OPENINGS.
- VERIFY EXISTING CONDITIONS IN THE FIELD AND COORDINATE WITH ALL TRADES PRIOR TO INSTALLING OR FABRICATING EQUIPMENT.
- LOCATE ALL OUTSIDE AIR INTAKES A MINIMUM OF 10'-0" CLEAR FROM ALL PLUMBING VENTS AND EXHAUST AIR DISCHARGE LOCATIONS.
- ALL WORK, AT A MINIMUM, SHALL BE IN ACCORDANCE WITH OSHA, NFPA STANDARDS AND THE LOCAL GOVERNING AUTHORITIES. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2023 (8TH ED.) FLORIDA BUILDING CODE, FLORIDA ENERGY CONSERVATION CODE, AND FLORIDA MECHANICAL CODE & STANDARDS (WITH SUPPLEMENTS) AS REFERENCED THROUGHOUT THE SPECIFICATIONS. THE DRAWINGS AND SPECIFICATIONS DO NOT ATTEMPT TO INDICATE ALL WORK REQUIRED BY THE CODES AND AUTHORITIES. DO NOT INSTALL WORK THAT DOES NOT MEET THE MINIMUM REQUIREMENTS. IF NECESSARY, REQUEST CLARIFICATION FROM A/E PRIOR TO PROCEEDING.
- CONTRACTOR SHALL NOT CONCEAL ANY WORK UNTIL INSPECTED BY MECHANICAL INSPECTOR AND/OR THE WORK IS OBSERVED BY THE ARCHITECT/ENGINEER. CONTRACTOR SHALL NOTIFY THE A/E OF A SCHEDULED INSPECTION/REVIEW TIME WITHIN 72 HOURS. GENERAL CONTRACTOR SHALL NOT CONCEAL WORK UNTIL INSPECTED AND OBSERVED, REGARDLESS OF SCHEDULE.
- PRIME CONTRACTOR IS RESPONSIBLE TO HAVE LICENSED AND QUALIFIED SUBCONTRACTORS PERFORMING ALL WORK.
- ALL PIPING AND DUCT PENETRATIONS THROUGH FLOOR AND WALLS SHALL BE MADE THROUGH NEATLY CUT OR DRILLED OPENINGS. PROVIDE SLEEVES THROUGH RATED WALLS. SEAL AROUND ALL PENETRATIONS. SEAL NON-RATED WALLS WITH GROUT OR CAULK. BACKING MATERIAL MAY BE USED. SEAL PENETRATIONS IN ALL RATED WALLS WITH UL-LISTED FIRESTOPPING ASSEMBLY MANUFACTURED BY 3M, HILTI, OR STI FIRESTOP.
- INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY INDICATED OTHERWISE OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.
- REPAIR ALL ACCIDENTAL OR INTENTIONAL DAMAGE TO MATCH NEW AND EXISTING CONSTRUCTION WITH NO NOTICEABLE DIFFERENCE IN CONTINUITY, APPEARANCE, OR FUNCTION.
- IT IS THE INTENT OF THESE PLANS AND SPECIFICATION TO PROVIDE A WORKING INSTALLATION IN EVERY DETAIL AND ALL ITEMS REQUIRED FOR SUCH AND INSTALLATION SHALL BE PROVIDED WHETHER OR NOT SPECIFICALLY INDICATED OR MENTIONED.

PROJECT DESIGN CONDITIONS			
TEMPERATURE DESIGN CRITERIA			
OUTDOOR			
SUMMER:	92.0 F DB / 78.0 F WB	0.4% MEAN COINCIDENTAL DB/WB	
SUMMER:	87.7 WB	0.4% WET BULB USED FOR COOLING TOWER SELECTION	
WINTER:	44.5 F DB	99.6% DB	
DAILY RANGE:	13.6 F DB		
ASHRAE WEATHER DATA LOCATION: NAPLES AIRPORT, FL			
INDOOR			
COOLING:	75 F DB / 50% RH	+/- 2 DEG F	
HEATING:	70 F DB	+/- 2 DEG F	

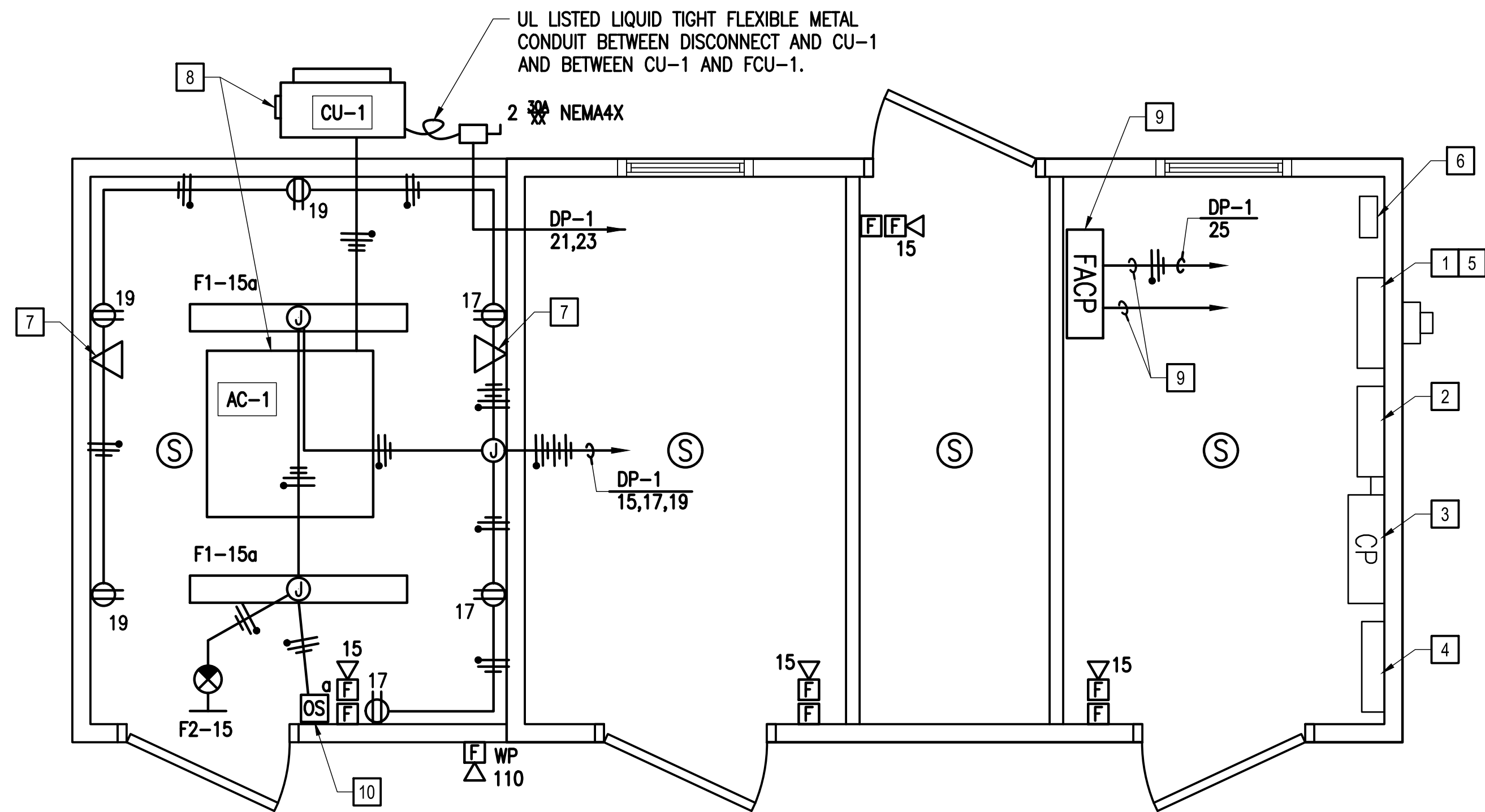
DATE										
REVISIONS										
FUEL FACILITY EXPANSION FUEL FARM IMPROVEMENTS PROJECT MECHANICAL NOTES, LEGENDS, AND ABBREVIATIONS										
PROJECT NAME	FUEL FACILITY EXPANSION		PROJECT LOCATION	FUEL FARM IMPROVEMENTS PROJECT		DRAWING NAME	MECHANICAL NOTES, LEGENDS, AND ABBREVIATIONS			
100% DESIGN										
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DRAWN BY	LMW	SCALE	22x01/38							
APPROVED BY	PLH	DATE								
SHEET NUMBER	M-1									

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KEYED NOTES:

- 1 EXISTING SERVICE AND DISTRIBUTION PANELBOARD DP-1. EXISTING PANEL IS A EATON PRL2A, 225A, 120/240V, SINGLE PHASE
- 2 EXISTING EMERGENCY PANEL
- 3 EXISTING LIGHTING CONTACTOR AND EXHAUST FAN CONTROL PANEL.
- 4 EXISTING VEEDER-ROOT TANK MONITORING PANEL
- 5 PROVIDE 4-20A/1P & 1-15A/2P BRANCH CIRCUIT BREAKERS SUITABLE FOR 2 TIER SERIES RATING OF 65,000 AMPS INTERRUPTING RATING AT 240 VAC WHEN PROTECTED BY A MAIN BREAKER WITH A 65,000 AIC RATING AT 240 VAC. SEE KEYED NOTE 1 FOR PANEL MANUFACTURER AND MODEL NUMBERS. SEE KEYED NOTE 9 FOR RED BREAKER REQUIREMENT FOR FACP.
- 6 APPROXIMATE LOCATION OF EXISTING NETWORK SWITCH, COORDINATE WITH OWNER ON UPGRADE FOR THIS SWITCH TO ALLOW CONNECTION OF THE NEW NETWORK PORTS IN THE ADDITION.
- 7 PROVIDE 1" CONDUIT WITH 2-CATEGORY 6 NETWORK CABLES TO LOCATION OF EXISTING NETWORK SWITCH. PROVIDE 2-PORT ETHERNET FACEPLATE WITH TWO WIRED JACKS.
- 8 NEW SPLIT TYPE AIR CONDITION SYSTEM. INDOOR AC-1 UNIT IS FED FROM OUTDOOR CU-1
- 9 PROVIDE CONVENTIONAL 5 ZONE FIRE ALARM PANEL EDWARDS FX-5R OR APPROVED EQUAL. PROVIDE DIALER AND 2 TELEPHONE LINES IN 3/4" C & 1-20A DEDICATED CIRCUIT BREAKER IN PANEL DP-1-CIRCUIT BREAKER TO BE RED IN COLOR. COORDINATE FINAL LOCATION IN THE FIELD TO AVOID CONFLICTS.
- 10 SENSOR SWITCH MODEL #WSX-PDT-WH OR APPROVED EQUAL.



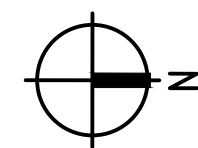
NOTES

1. 15 AMP & 20 AMP BRANCH CIRCUITS FOR LIGHTING & RECEPTACLES SHALL USE #12 AWG THWN (MIN.). 3/4" MINIMUM EMT MAY BE USED FOR INTERIOR LIGHTING AND RECEPTACLE BRANCH CIRCUITS.
2. OCCUPANCY SENSOR AND CONVENIENCE RECEPTACLES SHALL BE MOUNTED 48" ABOVE FINISHED FLOOR.
3. CONVENIENCE RECEPTACLES FOR THE ADDITION SHALL BE DUPLEX, 120 VAC SPEC GRADE, 20 AMP, NEMA 5-20R UL LISTED.
4. SURFACE MOUNTED OUTLET BOXES SHALL BE DIE CAST CONSTRUCTION HUBBELL/RACO/BELL, APPLETON, OR CROUSE-HINDS WEATHERPROOF OUTLET BOXES WITH STAINLESS STEEL COVER PLATES.
5. EXIT LIGHTS SHALL BE WIRED ON 24 HOURS PER DAY.

ELECTRICAL LEGEND - PLANS

	CONDUIT (EXPOSED)
	CONDUIT OR DUCT (CONCEALED OR BURIED)
	DUPLEX CONVENIENCE RECEPTACLE, 120V, 20 AMP SINGLE PHASE, NEMA 5-20R, GROUNDING TYPE.
	WALL OR CEILING MTD. JUNCTION BOX. CONFIGURATION VARIES WITH USE
	SINGLE THROW DISCONNECT SWITCH, 2 = # OF POLES, 30A = AMP RATING, XX = FUSE SIZE IF REQUIRED
	CIRCUIT BREAKER PANEL-SEE SCHEDULES
	#12 AWG THWN COPPER UNLESS NOTED OTHERWISE. LONG SLASHES INDICATE NEUTRAL. SHORT SLASHES INDICATE HOT OR SWITCHED LEG. "G" OR SLASHES WITH DOT INDICATE SEPARATE GROUND WIRE.
	HOMERUN TO PANEL PNL A INDICATES PANEL 1,3,5 INDICATES CIRCUIT NUMBERS
	SURFACE MOUNTED LED FIXTURE. LETTER WITH NUMBER INDICATES FIXTURE TYPE. X= CIRCUIT NUMBER a= SWITCH LEG
	SURFACE MOUNTED LED FIXTURE WITH EMERGENCY BALLAST BATTERY BACKUP. LETTER WITH NUMBER INDICATES FIXTURE TYPE. X= CIRCUIT NUMBER A= SWITCH LEG
	WALL OR CEILING MOUNTED LED FIXTURE.
	WALL MOUNTED SWITCH TYPE OCCUPANCY SENSOR A= SWITCH LEG
	2 PORT CAT 6 ETHERNET WALL OUTLET WITH 1" C. AND 2 CAT 6 CABLES TO LOCATION INDICATED
	DOUBLE ACTION TYPE MANUAL FIRE ALARM PULL STATION
	PHOTOELECTRIC TYPE FIRE ALARM SMOKE DETECTOR
	FIRE ALARM HORN STROBE, 15 = CANDELLA LEVEL, WP INDICATES WEATHER PROOF
	FIRE ALARM CONTROL PANEL

FUEL FACILITY EQUIPMENT SHELTER ADDITION LIGHTING AND RECEPTACLE PLAN

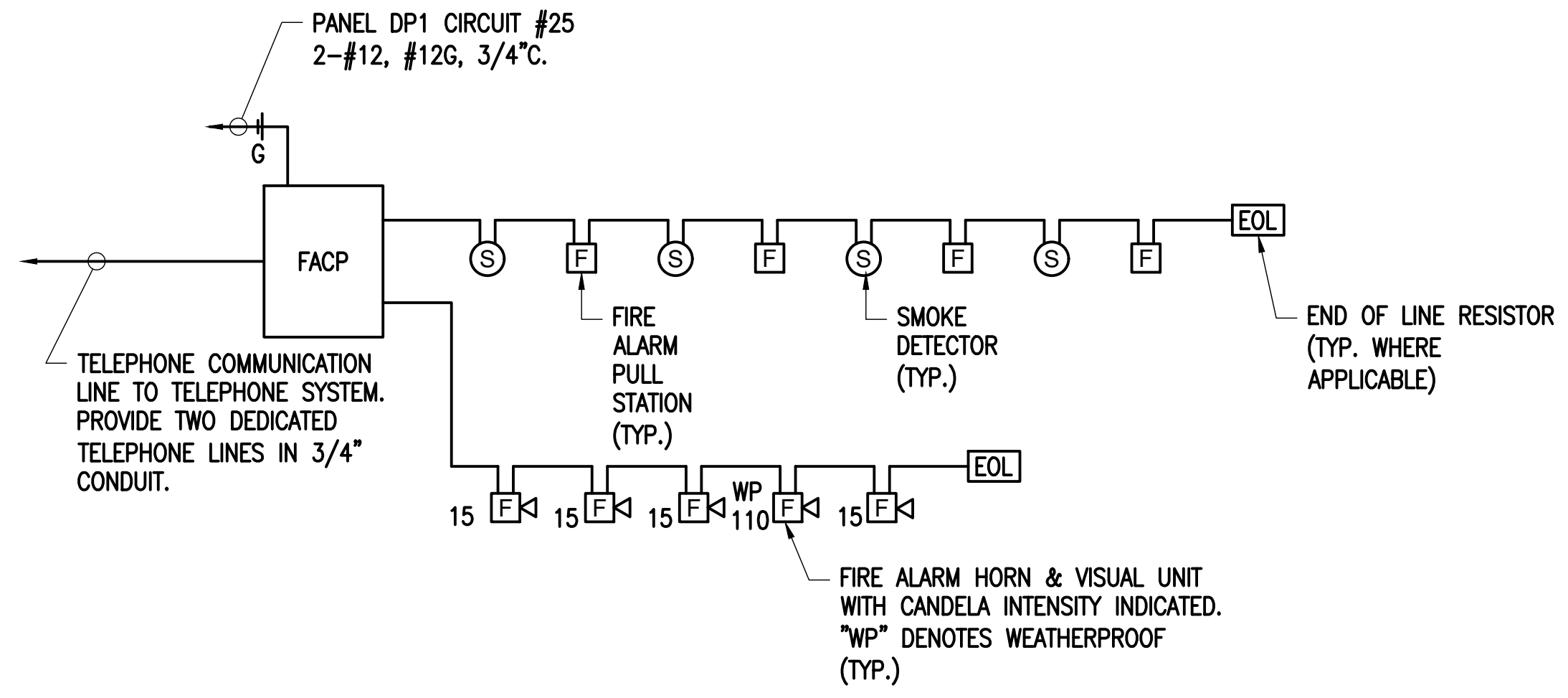


SCALE 1/2"=1'-0"
1 0 2 4 FEET

LIGHTING FIXTURE SCHEDULE

FIXT. TYPE	DESCRIPTION	MANUFACTURER & CATALOG NO.	LAMPS/WATTS	VOLTS	MOUNTING	REMARKS
F1	4 FT. WET LOCATION LISTED ENCLOSED AND GASKETED INDUSTRIAL LED LIGHT FIXTURE, IMPACT RESISTANT, UV RESISTANT REINFORCED POLYESTER FIBERGLASS HOUSING, HIGH IMPACT ACRYLIC DIFFUSER.	LITHONIA: FEM-L48-4000LM-LPAFL-WD-MVOLT-40K-80CRI OR APPROVED EQUAL	LED. APPROX. 23.8 INPUT WATTS	120	SURFACE TO HARD CEILING	
F2	LED EXIT SIGN WITH TWIN LED LAMP HEAD EMERGENCY LIGHTS WITH BATTERY BACKUP AND SELF DIAGNOSTICS	LITHONIA: CAT. NO. LHQM-LED-R-HO-SD OR APPROVED EQUAL	LED	120	MOUNT ON WALL ABOVE EXIT DOORWAY	EXIT LIGHT SHALL BE WIRED TO BE ON 24 HRS/DAY.

DATE									
REVISIONS									
FUEL FARM IMPROVEMENTS PROJECT NAPLES AIRPORT (APF)		EQUIPMENT SHELTER ADDITION LIGHTING AND RECEPTACLE PLAN							
PROJECT NAME	PROJECT LOCATION	DRAWING NAME							
ISSUED FOR PERMIT									
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DRAWN BY: CWS	PROJ. NO.: 22A0138_02								
APPROVED BY: KNL	FILE NAME: E-103-LTG								
SHEET NUMBER: E-1									



FIRE ALARM ONE-LINE DIAGRAM

FIRE ALARM GENERAL NOTES:

1. FIRE DETECTION AND ALARM SYSTEM SHALL BE EDWARDS MODEL FX-5R, OR APPROVED EQUAL.
2. ALL FIRE DETECTION AND ALARM WIRING SHALL BE IN EMT (INTERIOR) AND GRSC (EXTERIOR) AND ALL BOXES PAINTED RED AND MARKED FIRE ALARM. INSTALL IN ACCORDANCE WITH NFPA 72 AND MANUFACTURERS RECOMMENDATIONS.
3. FURNISH AND INSTALL CONDUIT, FITTINGS, RACEWAYS, WIRING, ADJUSTMENTS, RELOCATIONS, AND ACCESSORIES TO ACCOMMODATE THE RESPECTIVE WORK.
4. COORDINATE TELEPHONE SERVICE WORK WITH THE AIRPORT DIRECTOR AND THE AIRPORT'S SERVING TELEPHONE COMPANY. FOR HARD WIRE TELEPHONE SERVICE SYSTEM PROVIDE CONDUITS TO FIRE ALARM CONTROL PANEL. PROVIDE GRSC OUTSIDE AND EMT INSIDE.

NOTES:

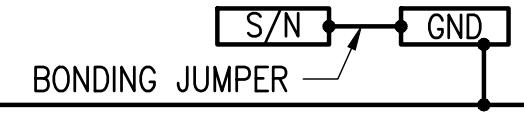
1. ALL WORK, POWER OUTAGES, AND/OR SHUT DOWN OF EXISTING SYSTEMS SHALL BE COORDINATED WITH THE AIRPORT MANAGEMENT. ONCE SHUT DOWN, THE CIRCUITS SHALL BE LABELED AS SUCH TO PREVENT ACCIDENTAL ENERGIZING OF THE RESPECTIVE CIRCUITS. ALL PERSONNEL SHALL FOLLOW U.S. DEPARTMENT OF LABOR OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION (OSHA) 29 CFR PART 1910 OCCUPATIONAL SAFETY & HEALTH STANDARDS FOR ELECTRICAL SAFETY AND LOCKOUT/TAGOUT PROCEDURES INCLUDING, BUT NOT LIMITED TO, 29 CFR SECTIONS 1910.147 THE CONTROL OF HAZARDOUS ENERGY (LOCKOUT/TAGOUT).
2. ALL ELECTRICAL EQUIPMENT AND MATERIALS SHALL BE INSTALLED IN CONFORMANCE WITH NFPA 70 - NATIONAL ELECTRICAL CODE (NEC) MOST CURRENT ISSUE IN FORCE, THE RESPECTIVE EQUIPMENT MANUFACTURER'S DIRECTIONS AND ALL OTHER APPLICABLE LOCAL CODES, LAWS, ORDINANCES AND REQUIREMENTS IN FORCE. ANY INSTALLATIONS WHICH VOID THE U.L. LISTING, INTERTEK TESTING SERVICES VERIFICATIONS/ETL LISTING, (OR OTHER THIRD PARTY LISTING) AND/OR THE MANUFACTURER'S WARRANTY OF A DEVICE WILL NOT BE PERMITTED.
3. ALL CONDUCTORS/WIRING SHALL BE COPPER.
4. COLOR CODE PHASE AND NEUTRAL CONDUCTOR INSULATION FOR NO. 6 AWG OR SMALLER. PROVIDE COLORED INSULATION OR COLORED MARKING TAPE FOR PHASE AND NEUTRAL CONDUCTORS FOR NO. 4 AWG AND LARGER. INSULATED GROUND CONDUCTORS SHALL HAVE GREEN COLORED INSULATION FOR ALL CONDUCTOR AWG AND/OR KCMIL TO COMPLY WITH NEC 250.119. NEUTRAL CONDUCTORS SHALL HAVE WHITE COLOR INSULATION FOR NO. 6 AWG OR SMALLER TO MEET THE REQUIREMENTS OF NEC 200.6. STANDARD COLORS FOR POWER WIRING AND BRANCH CIRCUITS SHALL BE AS FOLLOWS:

120/240 VAC, 1 PHASE, 3 WIRE
 PHASE A -BLACK
 PHASE C -BLUE
 NEUTRAL -WHITE
 GROUND -GREEN

NOTE THE ABOVE COLOR CODING APPLIES TO A 120/240 VAC, 1 PHASE, 3-WIRE SYSTEM THAT ORIGINATES FROM A 240/120 VAC, 3 PHASE, 4 WIRE SYSTEM.

EXISTING SHELTER SERVICE AND DISTRIBUTION PANEL						
CKT #	DUTY	SIZE		SIZE	DUTY	CKT #
1	INTERIOR LIGHTS	20A, 1P		20A, 1P	EQUIPMENT ROOM FAN	2
3	RESTROOM FAN	20A, 1P		20A, 1P	EXTERIOR LIGHTS	4
5	RESTROOM RECEPTACLES	15A, 1P		20A, 1P	RECEPTACLES STORAGE CHASE	6
7	AC	15A, 2P		20A, 2P	HAND DRYER	8
9						10
11	POWER CONTACTER REST ROOM	15A, 1P		20A, 2P	SECURITY CAM.	12
13	POWER CONTACTER EQUIPMENT FAN	15A, 1P				14
15	LIGHTS OFFICE AREA	20A, 1P			BLANK	16
17	RECEPTACLES OFFICE AREA	20A, 1P			BLANK	18
19	RECEPTACLES OFFICE AREA	20A, 1P			BLANK	20
21	NEW AC SYSTEM	15A, 2P			BLANK	22
23					BLANK	24
25	FACP (RED BREAKER)	20A, 1P			BLANK	26
27	BLANK				BLANK	28
29	BLANK				BLANK	30
31	BLANK				BLANK	32
33	BLANK				BLANK	34
35	BLANK				BLANK	36
37	BLANK				BLANK	38
39	BLANK				BLANK	40
41	BLANK				BLANK	42

SEE KEYED NOTE 5 ON SHEET E-1



EXISTING 225AMP, 120/240VAC, 1 PHASE, 3 WIRE 42 CIRCUIT PANELBOARD WITH 200AMP, 2 POLE MAIN BREAKER WITH 65,000 AIC AT 240VAC IN A NEMA 1 ENCLOSURE UL-LISTED SUITABLE FOR SERVICE ENTRANCE. BRANCH BREAKERS SHALL BE SUITABLE FOR 2 TIER SERIES RATING OF 65,000 AIC AT 120/240 VAC WHEN PROTECTED BY A MAIN BREAKER WITH 65,000 AIC RATING AT 240 VAC.

NOTES:

1. CIRCUIT BREAKERS AND WIRING SHALL BE SIZED FOR THE ACTUAL EQUIPMENT FURNISHED IN CONFORMANCE WITH THE RESPECTIVE MANUFACTURER'S RECOMMENDATION AND N.E.C. CONTRACTOR SHALL ADJUST CIRCUIT BREAKER SIZES & WIRING WHERE APPLICABLE TO CONFORM WITH THE MANUFACTURER'S RECOMMENDATIONS AND N.E.C.

This item has been digitally signed and sealed by Kevin N. Lightfoot, PE on 04/02/2024.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

DATE	
REVISIONS	
PROJECT NAME	FUEL FARM IMPROVEMENTS PROJECT
PROJECT LOCATION	NAPLES AIRPORT (APF)
DRAWING NAME	EQUIPMENT SHELTER ADDITION PANEL SCHEDULE AND NOTES
ISSUED FOR PERMIT	
<p>Hanson Professional Services Inc. Offices Nationwide FL CA Lic. No. 7961</p>	
DESIGNED BY:	RDN DATE: 04/02/2024
DRAWN BY:	CWS PROJ. NO: 22A0138_02
APPROVED BY:	KNL FILE NAME: 102-SCHD
SHEET NUMBER:	E-2

FUEL MECHANICAL LEGEND

VALVES	EQUIPMENT	APPURTENANCES & EQUIPMENT
3-WAY VALVE	AUTOMATIC AIR VENT ASSEMBLY	AIR ELIMINATOR VESSEL W/ AIR ELIMINATOR
ANGLE VALVE	BACKFLOW PREVENTION ASSEMBLY	CENTRIFUGAL PUMP
ANTI-SIPHON ANGLE VALVE	BASKET TYPE STRAINER	SLIDING VANE PD PUMP WITH INTERNAL BYPASS
FT SETTING	BLIND FLANGE	CLAY TREATER
ANTI-SIPHON CHECK	CAMLOCK COUPLING	EMERGENCY VENT
FLANGED BALL VALVE (MANUAL)	CONICAL STRAINER	FILTER SEPARATOR
SOCKET WELDED BALL VALVE	FLEXIBLE BALL JOINT	FLANGED FLEXIBLE PUMP CONNECTOR
FUSIBLE LINK SOCKET WELDED BALL VALVE	HIGH POINT VENT	FLOATING SUCTION
BALL VALVE (THREE WAY)	HOSE BIB	HORIZONTAL FILTER SEPARATOR
BALL VALVE (MOTOR OPERATED)	INSULATING FLANGE	PREFILTER
BALL VALVE (SPRING RETURN CLOSED)	LINE PROPORTIONER	P.V.V. (PRESSURE VACUUM PALLET VENT)
BUTTERFLY VALVE	LOW POINT DRAIN	P.V.V. (CARB IF NOTED)
FUSIBLE LINK BUTTERFLY VALVE	ORIFICE PLATE	PRIST INJECTOR
CHECK VALVE	REDUCER (CONCENTRIC)	STATIC GROUNDING REEL
CONTROL VALVE	REDUCER (ECCENTRIC)	STRAINER W/ AIR ELIMINATOR
CONTROL VALVE WITH CHECK FEATURE	REMOVABLE CAP (THREADED)	SUMP SEPARATOR
DIAPHRAGM VALVE	REMOVABLE PLUG (THREADED)	SURGE SUPPRESSOR WITH CHECK VALVE, ISOLATION VALVE AND 3/8" DRAIN
DOUBLE BLOCK & BLEED PLUG VALVE	SPECTACLE BLIND (OPEN)	SWIVEL JOINT, HOSE, & TRUCK LOADING NOZZLE
FUSIBLE LINK FIRE VALVE (FV)	SWIVEL JOINT, HOSE, & DRY BREAK COUPLING	UNION
GATE VALVE	UNION - DIELECTRIC	WATER MONITOR (WM) FILTER
GLOBE VALVE	WALL HYDRANT	WELD CAP
NEEDLE VALVE	Y-TYPE STRAINER	
PISTON PRESSURE CONTROL VALVE		
PLUG VALVE		
PRESSURE REGULATOR VALVE		
SELF CONTAINED DIAPHRAGM PRESSURE REDUCING (REGULATING) VALVE		
SOLENOID ACTUATED CONTROL VALVE		
THERMAL RELIEF VALVE (TRV)		
EXISTING SMALL BORE PIPING		
EXISTING LARGE BORE PIPING		
NEW SMALL BORE PIPING		
NEW LARGE BORE PIPING		
ADD ALTERNATE #1 SCOPE		
	MISCELLANEOUS	
	COMPONENTS TO BE FURNISHED WITH EQUIPMENT	
	DEMOLITION	
	PIPE SUPPORT	
	POINT OF NEW WORK TIE-IN	
	INSTRUMENTS	
	FLOW SWITCH	
	PRESSURE GAUGE	
	THERMOWELL	
	ULTRASONIC FLOW METER	
	POSITIVE DISPLACEMENT METER	
	MSP (MILLIPORE SAMPLE POINT)	
	SIGHT FLOW INDICATOR	

FLOW DIAGRAM LEGEND

CLOCK STYLE LEVEL GAUGE	HAND SWITCH	LEVEL INDICATOR	PUSH BUTTON
DIFFERENTIAL PRESSURE GAUGE	HORN	LEVEL SWITCH HIGH	RUN TIMER
EMERGENCY FUEL SHUT-OFF	IMMERSION HEATER KW XXX	LEVEL TRANSMITTER	STROBE
HAND OFF AUTO	I/O INPUT / OUTPUT	MOTOR	TEMPERATURE TRANSMITTER
	KEY SWITCH	PROGRAMMABLE LOGIC CONTROLLER	MOISTURE SENSOR
	LEVEL ALARM (LOCAL)	PILOT LIGHT	

INSTRUMENTATION LEGEND

INSTRUMENT IDENTIFICATION SYMBOLS				
FIRST LETTER		SUCCEEDING LETTERS		
MEASURED OF INITIATING VARIABLE	MODIFIER	READOUT OR PASSIVE FUNCTION	OUTPUT FUNCTION	MODIFIER
A	ANALYSIS	ALARM		
B	BURNER, COMBUSTION	USER CHOICE (1)	USER CHOICE (2)	USER CHOICE (3)
C	CONDUCTIVITY (ELECTRICAL)		CONTROL	
D	DENSITY (MASS) OR SPECIFIC GRAVITY	DIFFERENTIAL		
E	VOLTAGE	SENSOR (PRIMARY ELEMENT)		
F	FLOW RATE	RATIO (FRACTION)		
G	GAUGING (DIMENSIONAL)	GLASS VIEWING DEVICE		
H	HAND (MANUALLY INITIATED)			HIGH
I	CURRENT (ELECTRICAL)	INDICATE		
J	POWER	SCAN		
K	TIME (TIME SCHEDULE)	TIME RATE OF CHANGE	CONTROL STATION	
L	LEVEL	LIGHT		LOW
M	MOISTURE OR HUMIDITY	MOMENTARY		MIDDLE OR INTERMEDIATE
N	KEY			
O		ORIFICE (RESTRICTION)		
P	PRESSURE OR VACUUM		POINT (TEST) CONNECTION	
Q	QUANTITY OR EVENT	INTEGRATE OR TOTALIZE		
R	RADIOACTIVITY	RECORD OR PRINT		
S	SPEED OR FREQUENCY	SAFETY		SWITCH
T	TEMPERATURE		TRANSMIT	
U	MULTIVARIABLE		MULTIFUNCTION	MULTIFUNCTION
V	VIBRATION, MECHANICAL ANALYSIS		VALVE DAMPER OR LOUVER	
W	WEIGHT, FORCE	WALL		
X	UNCLASSIFIED	X-AXIS	UNCLASSIFIED	UNCLASSIFIED
Y	EVENT, STATE OR PRESENCE	Y-AXIS	RELAY, COMPUTER CONVERT	
Z	POSITION, DIMENSION	Z-AXIS	DRIVE, ACTUATE, UNCLASSIFIED FINAL CONTROL ELEMENT	

TAG NUMBERS & ADDITIONAL DESIGNATIONS		
FIRST LETTER (SEE LEGEND ABOVE)	READOUT OR PASSIVE FUNCTION	SEE SPECIFIED INSTRUMENT FUNCTIONAL DESIGNATIONS AND ABBREVIATIONS. (TAG NUMBER SUFFIX)
SUCCEEDING LETTERS (OUTPUT FUNCTION OR MODIFIER)		
INSTRUMENT LOOP DESIGNATION NUMBER	NUMBER AFTER DASH (-1, -2, ETC) DENOTES MULTIPLE DEVICES USED IN IDENTICAL DUPLICATE SYSTEMS. A LETTER AFTER THE LOOP NUMBER (31A, 31B, ETC) IS USED TO DISTINGUISH MULTIPLE SIMILAR DEVICES IN THE SAME INSTRUMENT LOOP.	



FUEL FACILITY IMPROVEMENTS PROJECT
 NAPLES AIRPORT (APF)
 FUELING LEGENDS

ISSUED FOR PERMIT

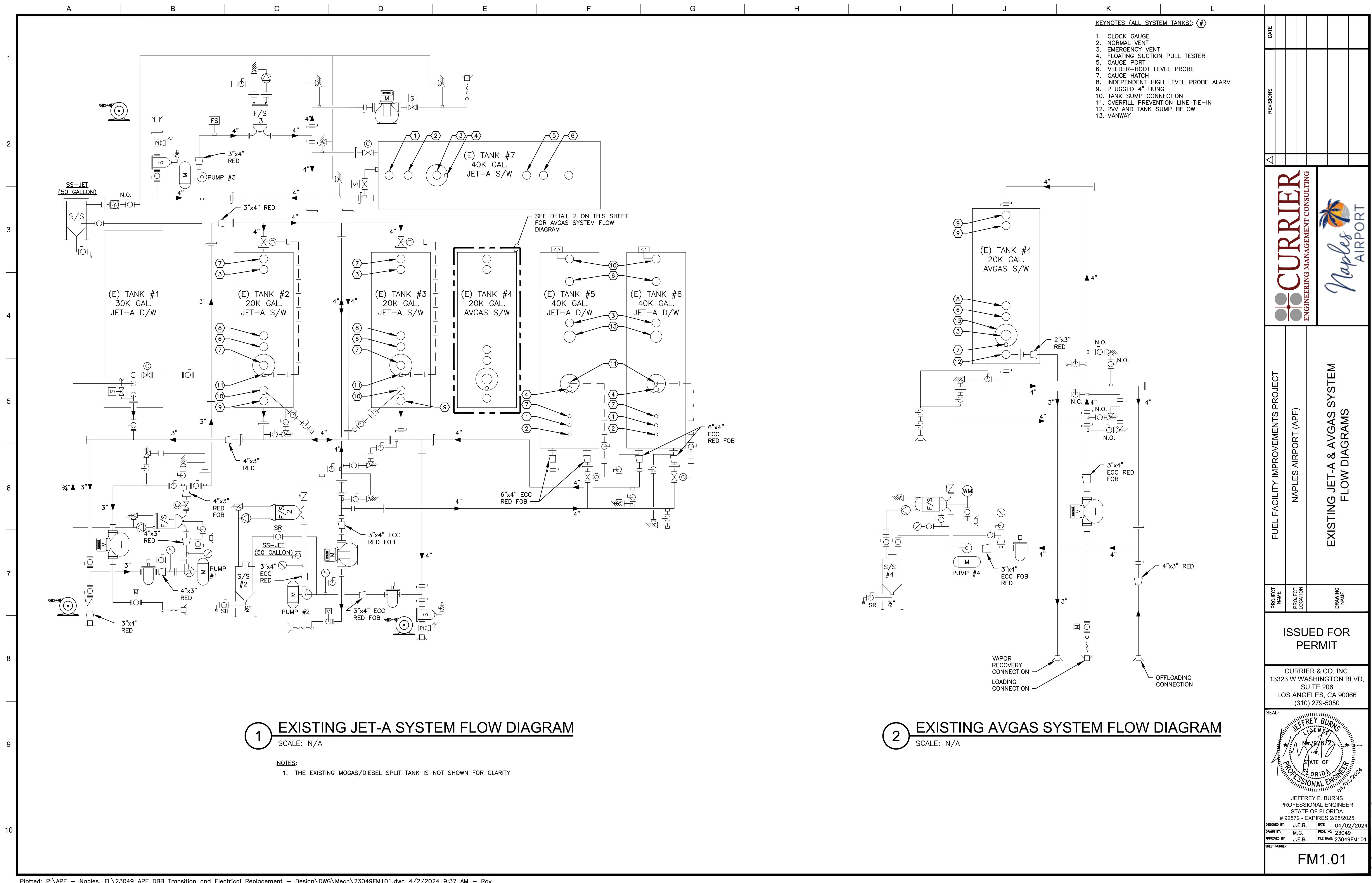
CURRIER & CO., INC.
 13323 W. WASHINGTON BLVD., SUITE 206
 LOS ANGELES, CA 90066
 (310) 279-5050

SEAL: JEFFREY E. BURNS
 PROFESSIONAL ENGINEER
 STATE OF FLORIDA
 # 92872 - EXPIRES 2/28/2025

DESIGNED BY: J.E.B. DATE: 04/02/2024
 DRAWN BY: M.G. PROJ. NO: 23049
 APPROVED BY: J.E.B. FILE NAME: 23049FM100
 SHEET NUMBER:

FM1.00

ISSUED FOR PERMIT



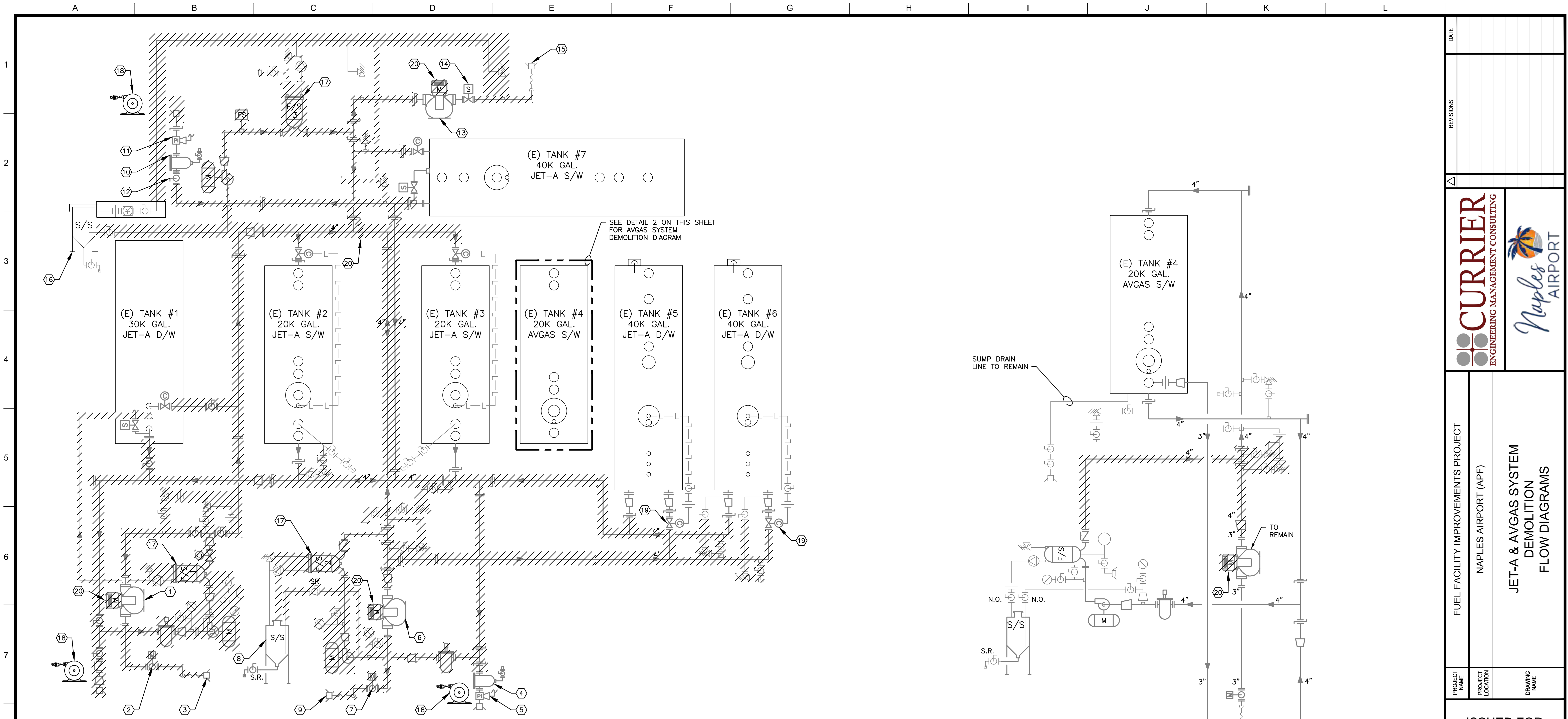
- KEYNOTES (ALL SYSTEM TANKS):**
1. CLOCK GAUGE
 2. NORMAL VENT
 3. EMERGENCY VENT
 4. FLOATING SUCTION PULL TESTER
 5. GAUGE PORT
 6. VEEDER-ROOT LEVEL PROBE
 7. GAUGE HATCH
 8. INDEPENDENT HIGH LEVEL PROBE ALARM
 9. PLUGGED 4" BUNG
 10. TANK SUMP CONNECTION
 11. OVERFILL PREVENTION LINE TIE-IN
 12. PVV AND TANK SUMP BELOW
 13. MANWAY

1 EXISTING JET-A SYSTEM FLOW DIAGRAM
SCALE: N/A

NOTES:
1. THE EXISTING MOGAS/DIESEL SPLIT TANK IS NOT SHOWN FOR CLARITY

2 EXISTING AVGAS SYSTEM FLOW DIAGRAM
SCALE: N/A

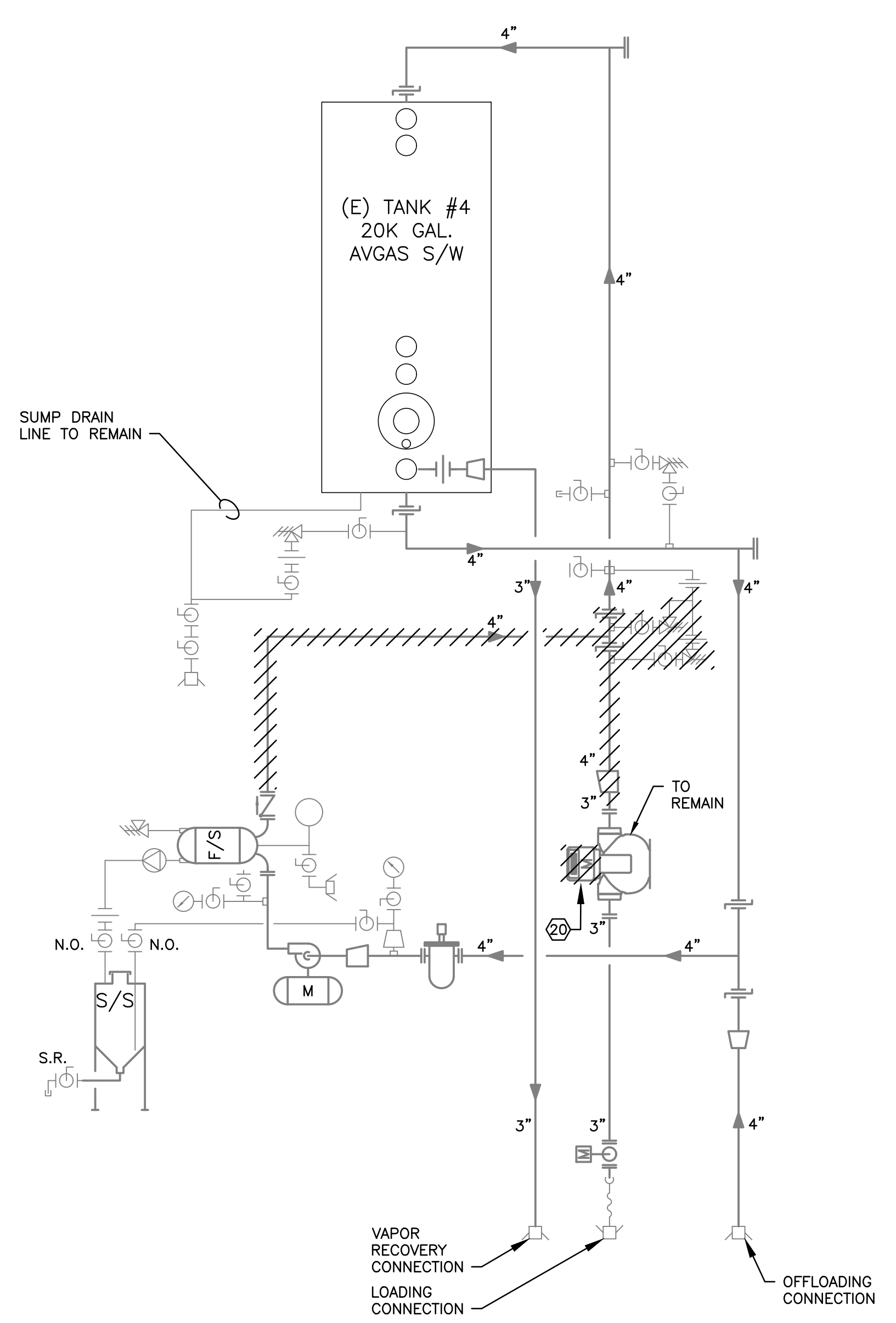
DATE		REVISIONS		
FUEL FACILITY IMPROVEMENTS PROJECT NAPLES AIRPORT (APF) EXISTING JET-A & AVGAS SYSTEM FLOW DIAGRAMS				
PROJECT NAME	PROJECT LOCATION	DRAWING NAME		
ISSUED FOR PERMIT	CURRIER & CO., INC. 13323 W. WASHINGTON BLVD., SUITE 206 LOS ANGELES, CA 90066 (310) 279-5050			
SEAL:				
DESIGNED BY: J.E.B.	DATE: 04/02/2024			
DRAWN BY: M.G.	PROJ. NO.: 23049			
APPROVED BY: J.E.B.	FILE NAME: 23049FM101			
SHEET NUMBER:	FM1.01			



1 JET-A SYSTEM DEMOLITION DIAGRAM
SCALE: N/A

- KEYNOTES:** (#)
1. (E) 3" LIQUID CONTROLS M-25 (300-GPM MAX) POSITIVE DISPLACEMENT METER SHALL BE RE-USED AT SOUTHWEST UNLOADING RACK
 2. (E) 3" BALL VALVE W/ INDELAC ELEC. ACTUATOR TO BE DEMOLISHED
 3. (E) BAYONET CONNECTION SHALL BE RE-USED AT WEST LOADING RACK
 4. (E) 4" STRAINER SHALL BE RELOCATED TO SOUTH WEST OFFLOADING POSITION
 5. (E) 4" JET-A ANTI-ICING AGENT INJECTOR SHALL BE RELOCATED TO THE SOUTH-WEST UNLOADING RACK
 6. (E) 3" LIQUID CONTROLS M-30 (350-GPM MAX) POSITIVE DISPLACEMENT METER SHALL BE RE-USED AT THE SOUTH-WEST LOADING RACK
 7. (E) 3" BALL VALVE W/ INDELAC ELEC. ACTUATOR TO BE DEMOLISHED
 8. (E) 25-GAL JET-A SUMP SEPARATOR SHALL BE RELOCATED NEXT TO PUMP #3 AND HAVE 1" PIPING TO PUMP INLET FOR FUEL RECOVERY
 9. (E) BAYONET CONNECTION SHALL BE RELOCATED TO EAST LOADING RACK
 10. (E) 4" STRAINER SHALL BE RELOCATED TO NORTH OFFLOADING POSITION
 11. (E) 4" JET-A ANTI-ICING AGENT INJECTOR SHALL BE RELOCATED TO NORTH UNLOADING POSITION
 12. (E) 4" BALL VALVE SHALL BE RE-USED AT NORTH OFFLOADING POSITION
 13. (E) 4" LIQUID CONTROLS M-40 (450-GPM MAX) POSITIVE DISPLACEMENT METER SHALL BE RE-USED AT NORTH UNLOADING RACK
 14. (E) 4" SOLENOID DIAPHRAGM CONTROL VALVE SHALL BE RE-USED AT NORTH LOADING RACK
 15. (E) BAYONET CONNECTION SHALL BE RELOCATED TO NORTH LOADING RACK
 16. (E) SUMP SEPARATOR SHALL BE RELOCATED AT NORTH LOADING POSITION
 17. (E) FILTER SEPARATOR SHALL BE DEMOLISHED
 18. (E) GROUNDING REELS SHALL BE RELOCATED AT NORTH EQUIPMENT AREA
 19. (E) 4" HIGH-LEVEL SHUT-OFF CONTROL VALVE, TO BE RELOCATED
 20. (E) MECH. REGISTER SHALL BE REMOVED AND RELOCATED TO THE (N) AVGAS UNLOADING METER AND REPLACE WITH A (N) ELEC. REGISTER, SEE FM1.03 & FM1.04

2 AVGAS SYSTEM DEMOLITION DIAGRAM
SCALE: N/A



CONTRACTOR SHALL COMPLY WITH ALL COORDINATION NOTES RELATED TO SYSTEM OPERATIONS AT ALL TIMES

LEGEND	
[Hatched Box]	DEMOLITION

DATE	REVISIONS

CURRIER
ENGINEERING MANAGEMENT CONSULTING

Naples AIRPORT

FUEL FACILITY IMPROVEMENTS PROJECT

NAPLES AIRPORT (APF)

JET-A & AVGAS SYSTEM DEMOLITION FLOW DIAGRAMS

PROJECT NAME: FUEL FACILITY IMPROVEMENTS PROJECT
PROJECT LOCATION: NAPLES AIRPORT (APF)
DRAWING NAME: JET-A & AVGAS SYSTEM DEMOLITION FLOW DIAGRAMS

ISSUED FOR PERMIT

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13323 W. WASHINGTON BLVD., SUITE 206
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(310) 279-5050

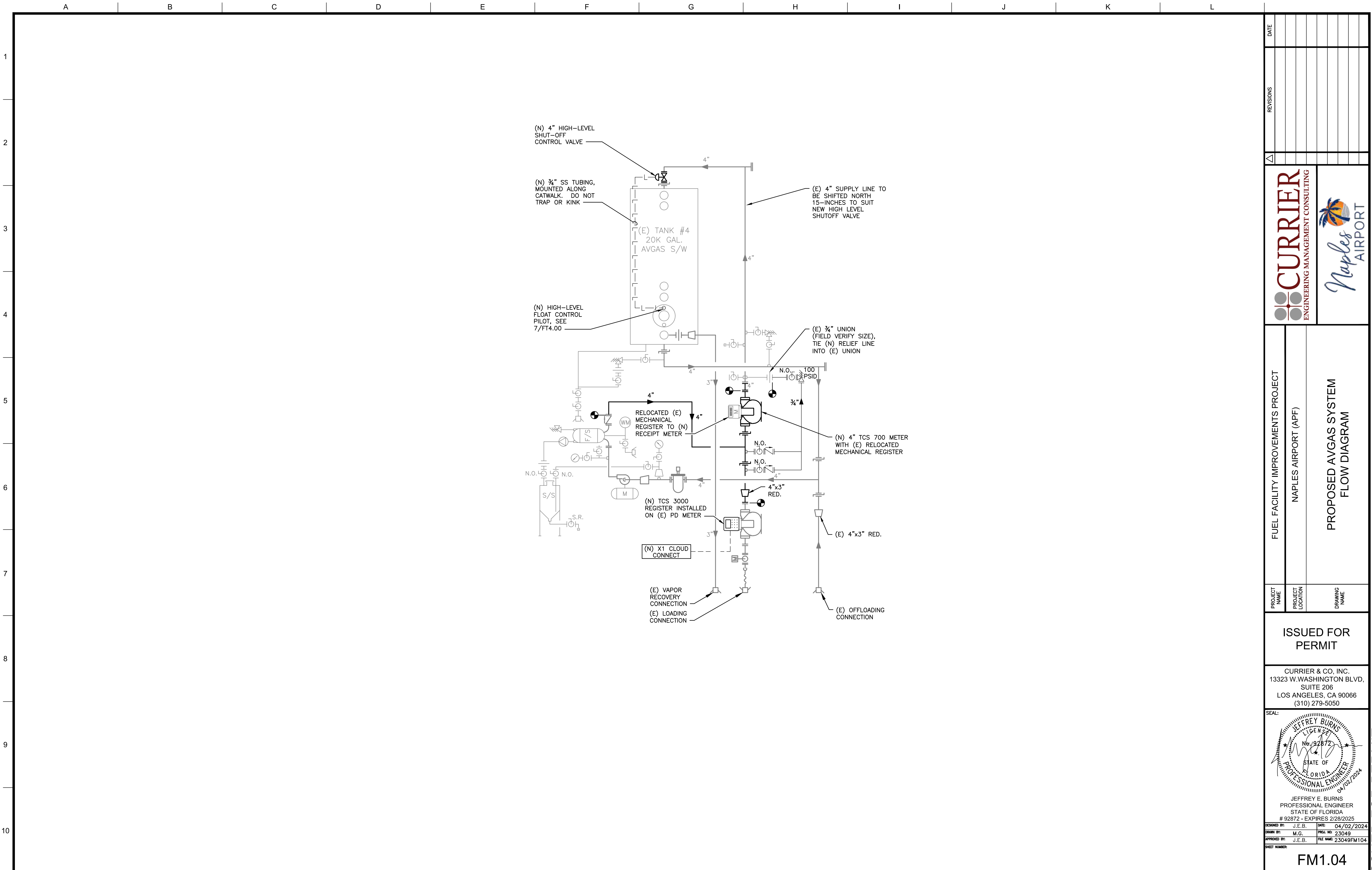
SEAL:

JEFFREY E. BURNS
PROFESSIONAL ENGINEER
STATE OF FLORIDA
92872 - EXPIRES 2/28/2025

DESIGNED BY: J.E.B. DATE: 04/02/2024
DRAWN BY: M.G. PROJ. NO: 23049
APPROVED BY: J.E.B. FILE NAME: 23049FM102
SHEET NUMBER:

FM1.02

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DATE	REVISIONS

CURRIER
ENGINEERING MANAGEMENT CONSULTING



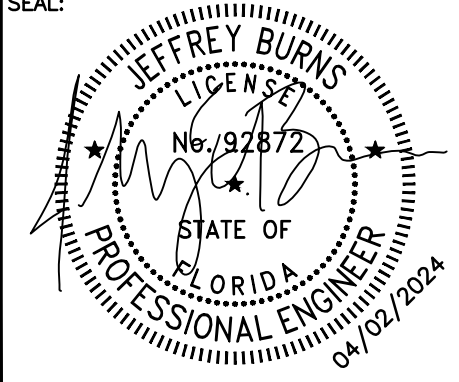
NAPLES AIRPORT

FUEL FACILITY IMPROVEMENTS PROJECT	NAPLES AIRPORT (APF)	PROPOSED AVGAS SYSTEM FLOW DIAGRAM
PROJECT NAME	PROJECT LOCATION	DRAWING NAME

ISSUED FOR PERMIT

CURRIER & CO., INC.
13323 W. WASHINGTON BLVD., SUITE 206
LOS ANGELES, CA 90066
(310) 279-5050

SEAL:



JEFFREY E. BURNS
PROFESSIONAL ENGINEER
STATE OF FLORIDA
92872 - EXPIRES 2/28/2025

DESIGNED BY: J.E.B.	DATE: 04/02/2024
DRAWN BY: M.G.	PROJ. NO: 23049
APPROVED BY: J.E.B.	FILE NAME: 23049FM104
SHEET NUMBER:	

FM1.04

ISSUED FOR PERMIT

DATE	REVISIONS



FUEL FACILITY IMPROVEMENTS PROJECT	
NAPLES AIRPORT (APF)	
INTERIM PROPOSED OIL WATER SEPARATOR SYSTEM DIAGRAM	
PROJECT NAME	DRAWING NAME
PROJECT LOCATION	DRAWING NAME

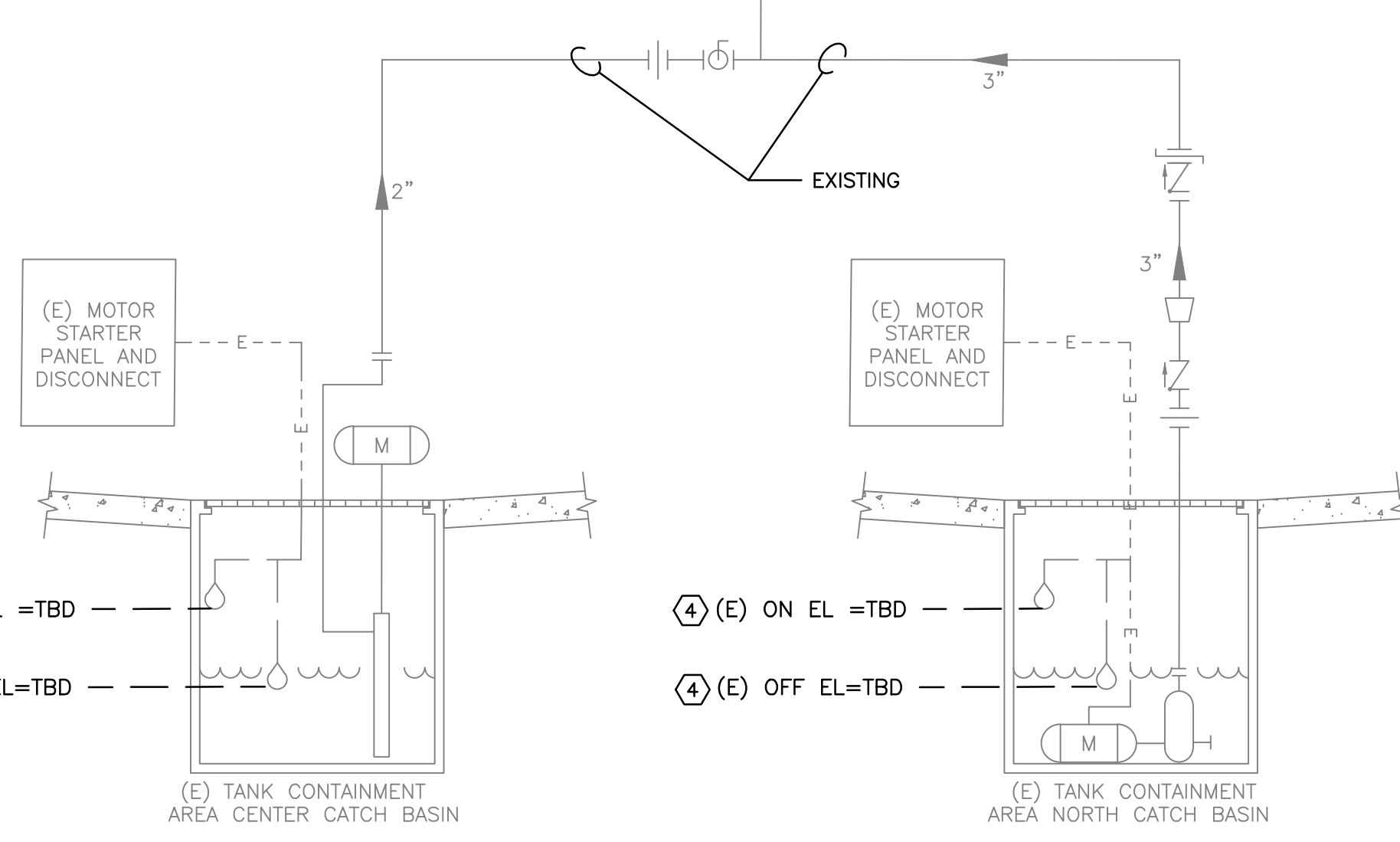
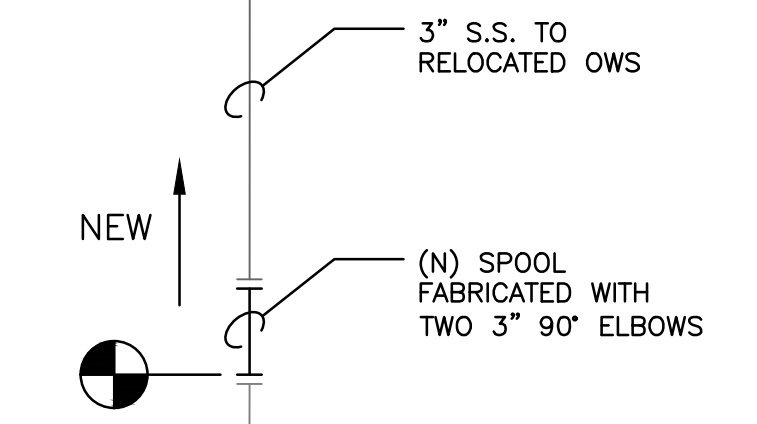
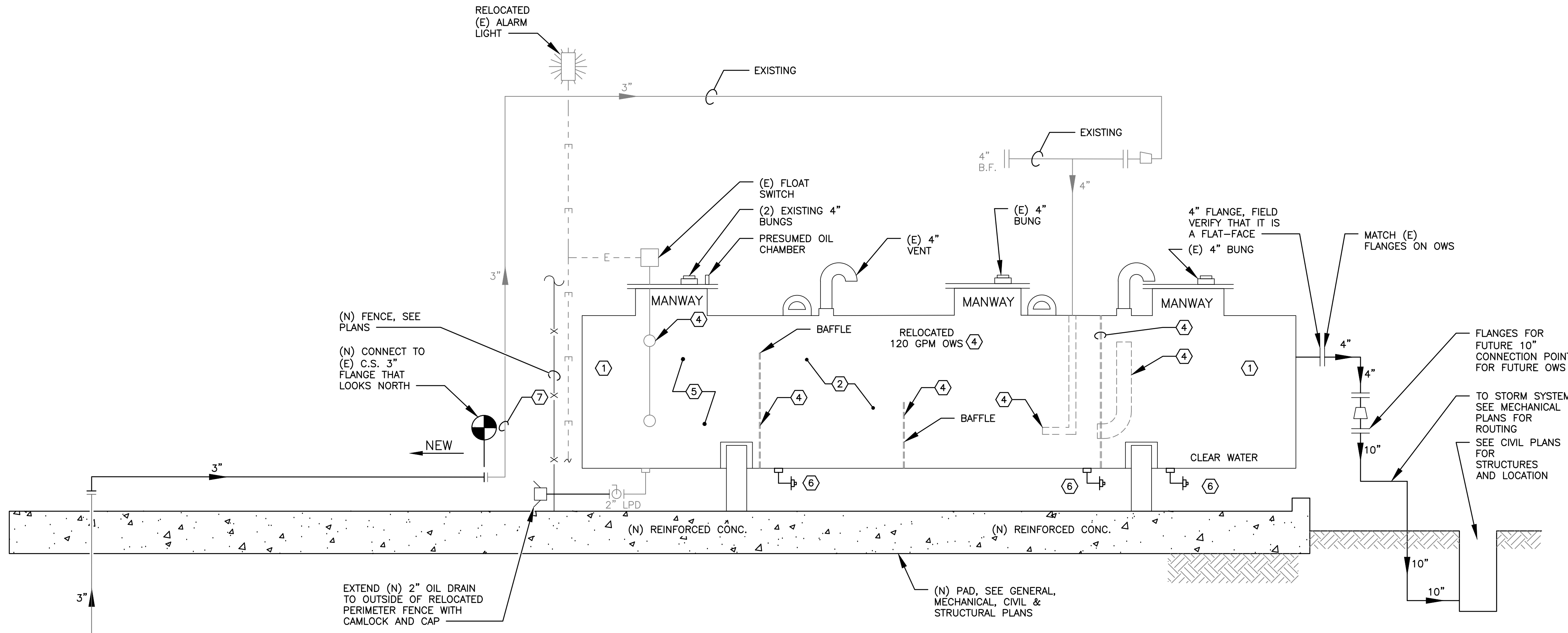
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CURRIER & CO., INC.
13323 W. WASHINGTON BLVD., SUITE 206
LOS ANGELES, CA 90066
(310) 279-5050

SEAL: **JEFFREY E. BURNS**
LICENSED PROFESSIONAL ENGINEER
STATE OF FLORIDA
No. 92872
EXPIRES 2/28/2025

DESIGNED BY: J.E.B. DATE: 04/02/2024
DRAWN BY: M.V. PROJ. NO: 23049
APPROVED BY: J.E.B. FILE NAME: 23049FM105A
SHEET NUMBER: **FM1.05A**

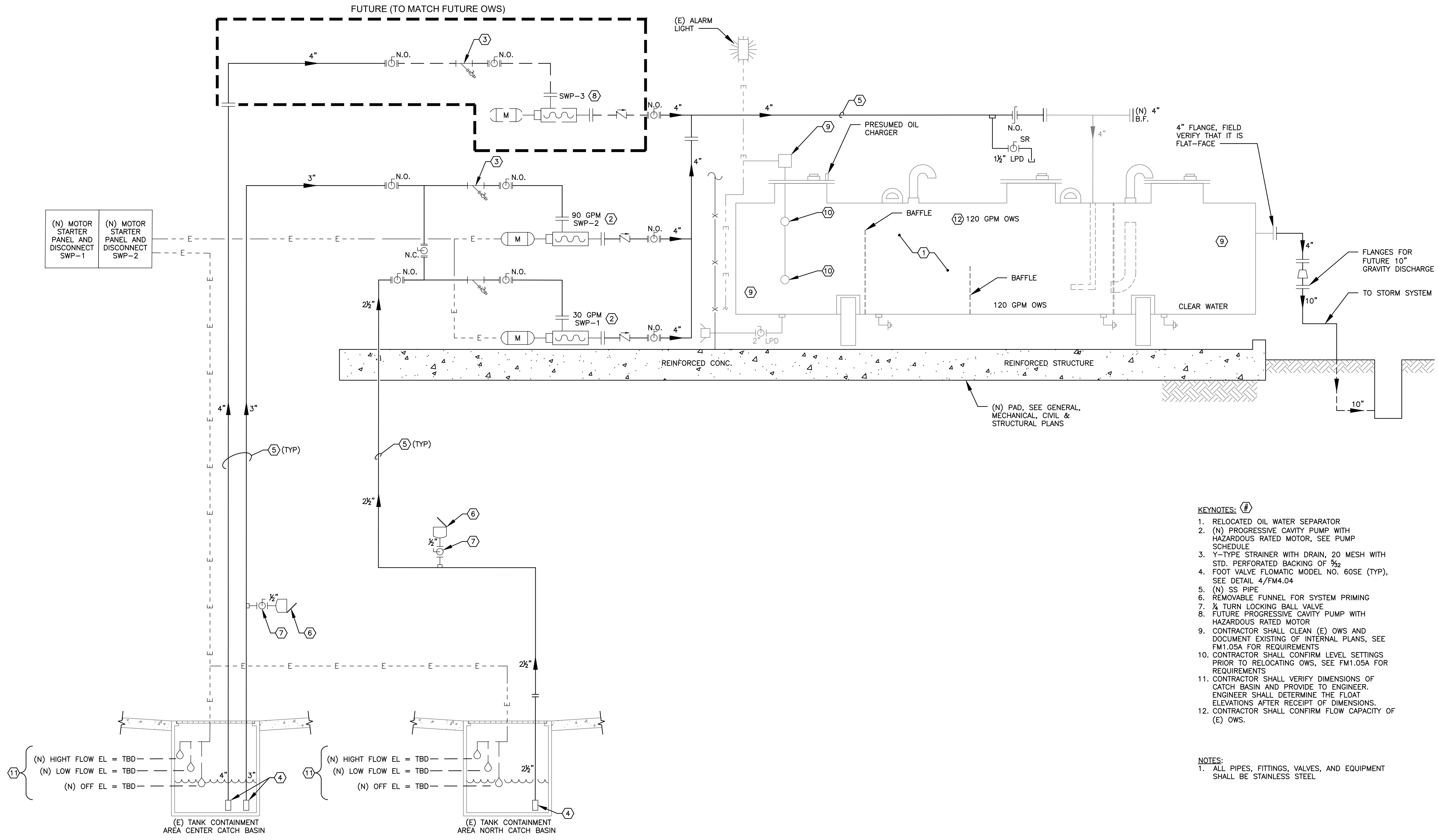
ISSUED FOR PERMIT



- KEYNOTES:** #
- CONTRACTOR SHALL CLEAN (E) OWS AND DOCUMENT EXISTING INTERNAL CONFIGURATION IN PHOTO AND WRITTEN DESCRIPTION AND ADVISE ENGINEER.
 - RELOCATED OIL WATER SEPARATOR
 - CONNECTION FOR FUTURE PROGRESSIVE CAVITY PUMP WITH HAZARDOUS RATED MOTOR, SEE FM 1.05B TO BE CONFIRMED BY CONTRACTOR
 - ASSUMED OIL CHAMBER, TO BE CONFIRMED BY CONTRACTOR
 - (E) PLUGGED DRAINS
 - CUT EXISTING RISER AND ROTATE TO EXIT NEW LOCATION. SEE PLANS

EXISTING OIL-WATER SEPARATOR CLEANING & DOCUMENTATION

- SCOPE OF WORK: THE SCOPE OF WORK INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING TASKS:
 - THOROUGH CLEANING OF THE HIGHLAND ABOVEGROUND STEEL OIL WATER SEPARATOR PROCESS TANK.
 - INSPECTION OF ALL COMPONENTS, INCLUDING BUT NOT LIMITED TO WALLS, BAFFLES, PIPES, VALVES, FITTINGS, AND ACCESS POINTS, FOR SIGNS OF DAMAGE, CORROSION, OR WEAR.
 - DOCUMENTATION OF THE TANK'S CONFIGURATION, INCLUDING DIMENSIONS, MATERIALS, AND SPECIFICATIONS.
 - IDENTIFICATION AND REPORTING OF ANY NECESSARY REPAIRS OR MAINTENANCE REQUIRED TO ENSURE OPTIMAL FUNCTIONALITY.
 - COMPLIANCE WITH SAFETY STANDARDS AND ENVIRONMENTAL REGULATIONS THROUGHOUT THE PROCESS.
- RESPONSIBILITIES: THE CONTRACTOR SHALL BE RESPONSIBLE FOR:
 - PROVIDING ALL NECESSARY EQUIPMENT, TOOLS, AND PERSONNEL FOR THE COMPLETION OF THE TASKS OUTLINED IN THIS SPECIFICATION.
 - CONDUCTING THE CLEANING AND INSPECTION ACTIVITIES WITH UTMOST CARE AND PRECISION TO AVOID ANY DAMAGE TO THE TANK OR ITS COMPONENTS.
 - DOCUMENTING THE CONFIGURATION OF THE TANK ACCURATELY, INCLUDING DIMENSIONS OF CRITICAL COMPONENTS SUCH AS WALLS, BAFFLES, AND ACCESS POINTS.
 - REPORTING FINDINGS PROMPTLY TO THE PROJECT MANAGER OR RELEVANT AUTHORITY.
 - ADHERING TO ALL SAFETY PROTOCOLS AND ENVIRONMENTAL REGULATIONS TO ENSURE THE SAFETY OF PERSONNEL AND PREVENT ANY ADVERSE IMPACTS ON THE ENVIRONMENT.
- METHODOLOGY:
 - CLEANING: UTILIZE STEAM POWER WASHING WITH WATER ONLY, AVOIDING THE USE OF DETERGENTS OR CHEMICAL CLEANERS, TO EFFECTIVELY REMOVE ANY ACCUMULATED SEDIMENTS, SLUDGE, OR CONTAMINANTS FROM THE TANK AND ITS COMPONENTS.
 - INSPECTION: PERFORM A VISUAL INSPECTION OF ALL COMPONENTS, TO ASSESS AND DOCUMENT THE CONDITION OF THE TANK THOROUGHLY. DOCUMENT THE LEVEL FLOAT SWITCH CONFIGURATION AND THE LEVEL OF FLOAT(S) WITHIN THE TANK.
 - DOCUMENTATION: RECORD DETAILED INFORMATION ABOUT THE TANK'S CONFIGURATION, INCLUDING DIMENSIONS, MATERIALS, SPECIFICATIONS, AND THE CONFIGURATION AND LEVEL OF FLOAT(S) OF THE LEVEL FLOAT SWITCH. UTILIZE SUITABLE MEASUREMENT TOOLS AND TECHNIQUES TO ACCURATELY DOCUMENT THIS INFORMATION.
 - REPORTING: PREPARE A REPORT DETAILING THE FINDINGS OF THE CLEANING AND INSPECTION ACTIVITIES, INCLUDING ANY IDENTIFIED ISSUES, RECOMMENDED REPAIRS, MAINTENANCE REQUIREMENTS, AND THE DOCUMENTED LEVEL FLOAT SWITCH CONFIGURATION AND LEVEL OF FLOAT(S).
- COMPLIANCE: THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE SAFETY STANDARDS AND ENVIRONMENTAL REGULATIONS THROUGHOUT THE DURATION OF THE PROJECT.
- ENVIRONMENTAL PROTECTION: THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT ENVIRONMENTAL CONTAMINATION OR DAMAGE DURING THE EXECUTION OF THE PROJECT. THIS INCLUDES UTILIZING STEAM POWER WASHING WITH WATER ONLY TO MINIMIZE THE INTRODUCTION OF CHEMICALS INTO THE ENVIRONMENT. ADDITIONALLY, DISPOSAL OF ANY AND ALL SLUDGE, PETROLEUM PRODUCTS OR PETROLEUM-LADEN WASTE SHALL BE CONDUCTED IN ACCORDANCE WITH FLORIDA AND COLLIER COUNTY RULES AND REGULATIONS GOVERNING HAZARDOUS WASTE DISPOSAL, AT NO INCREASE TO THE CONTRACT SUM.



- KEYNOTES: (#)**
1. RELOCATED OIL WATER SEPARATOR
 2. (N) PROGRESSIVE CAVITY PUMP WITH HAZARDOUS RATED MOTOR, SEE PUMP SCHEDULE
 3. Y-TYPE STRAINER WITH DRAIN, 20 MESH WITH STD. PERFORATED BACKING OF 5/32
 4. FOOT VALVE FLOMATIC MODEL NO. 60SE (TYP), SEE DETAIL 4/FM4.04
 5. (N) SS PIPE
 6. REMOVABLE FUNNEL FOR SYSTEM PRIMING
 7. 1/4 TURN LOCKING BALL VALVE
 8. FUTURE PROGRESSIVE CAVITY PUMP WITH HAZARDOUS RATED MOTOR
 9. CONTRACTOR SHALL CLEAN (E) OWS AND DOCUMENT EXISTING OF INTERNAL PLANS, SEE FM1.05A FOR REQUIREMENTS
 10. CONTRACTOR SHALL CONFIRM LEVEL SETTINGS PRIOR TO RELOCATING OWS, SEE FM1.05A FOR REQUIREMENTS
 11. CONTRACTOR SHALL VERIFY DIMENSIONS OF CATCH BASIN AND PROVIDE TO ENGINEER. ENGINEER SHALL DETERMINE THE FLOAT ELEVATIONS AFTER RECEIPT OF DIMENSIONS.
 12. CONTRACTOR SHALL CONFIRM FLOW CAPACITY OF (E) OWS.

NOTES:
1. ALL PIPES, FITTINGS, VALVES, AND EQUIPMENT SHALL BE STAINLESS STEEL

DATE	REVISIONS

CURRIER
ENGINEERING MANAGEMENT CONSULTING

Naples AIRPORT

FUEL FACILITY IMPROVEMENTS PROJECT
NAPLES AIRPORT (APF)

PROPOSED OIL WATER SEPARATOR SYSTEM DIAGRAM

PROJECT NAME: FUEL FACILITY IMPROVEMENTS PROJECT
PROJECT LOCATION: NAPLES AIRPORT (APF)
DRAWING NAME: PROPOSED OIL WATER SEPARATOR SYSTEM DIAGRAM

ISSUED FOR PERMIT

CURRIER & CO., INC.
13323 W. WASHINGTON BLVD., SUITE 206
LOS ANGELES, CA 90066
(310) 279-5050

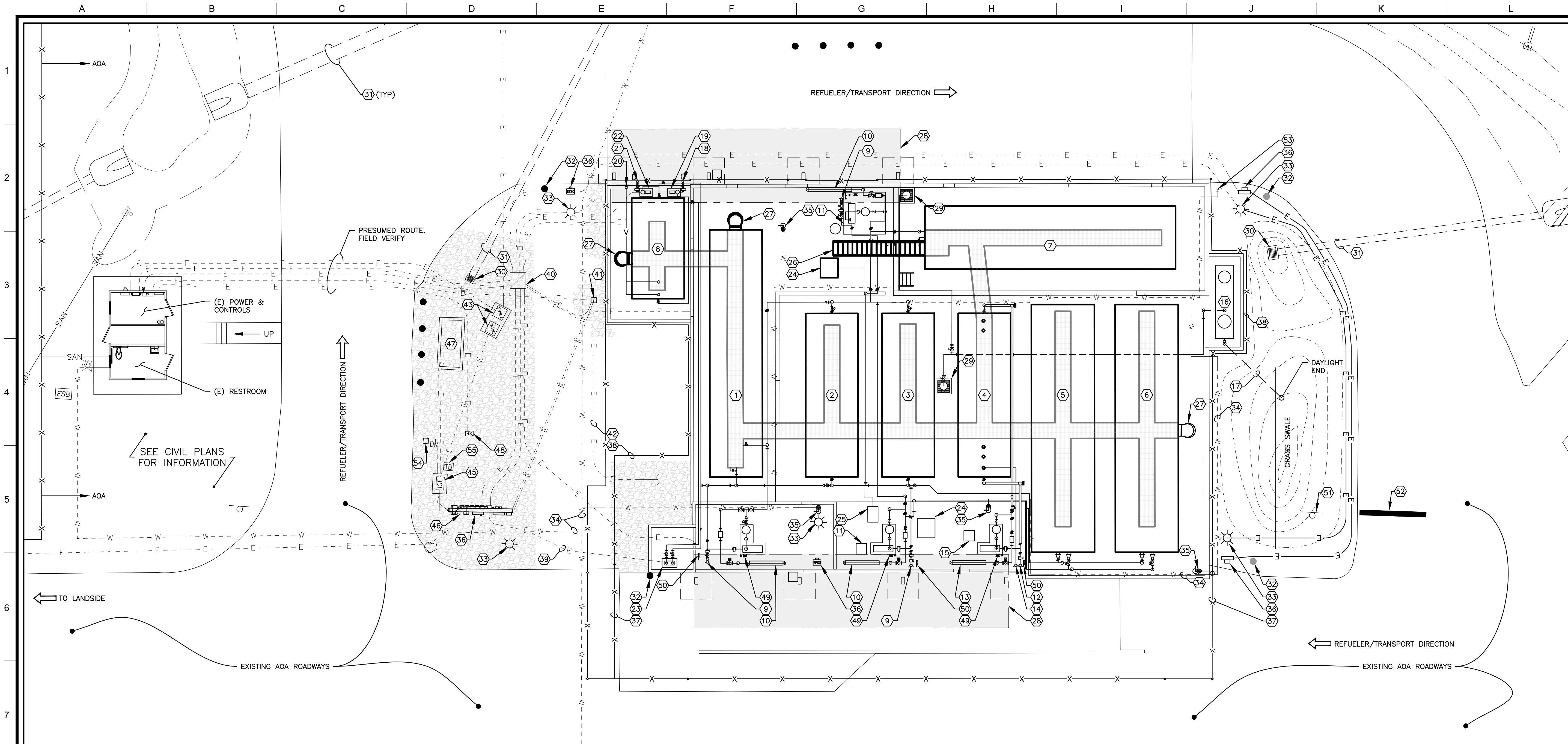
SEAL:

JEFFREY E. BURNS
PROFESSIONAL ENGINEER
STATE OF FLORIDA
92872 - EXPIRES 2/28/2025

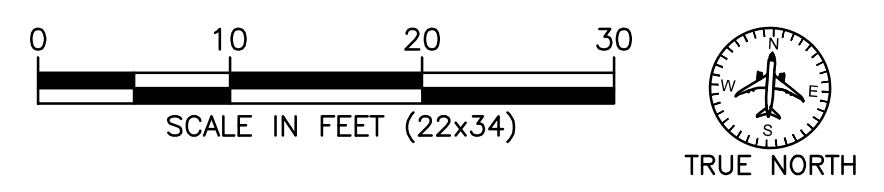
DESIGNED BY: J.E.B.	DATE: 04/02/2024
DRAWN BY: J.H.	PROJ. NO: 23049
APPROVED BY: J.E.B.	FILE NAME: 23049FM105B
SHEET NUMBER:	

FM1.05B

ISSUED FOR PERMIT



1 EXISTING OVERALL MECHANICAL CONDITIONS PLAN



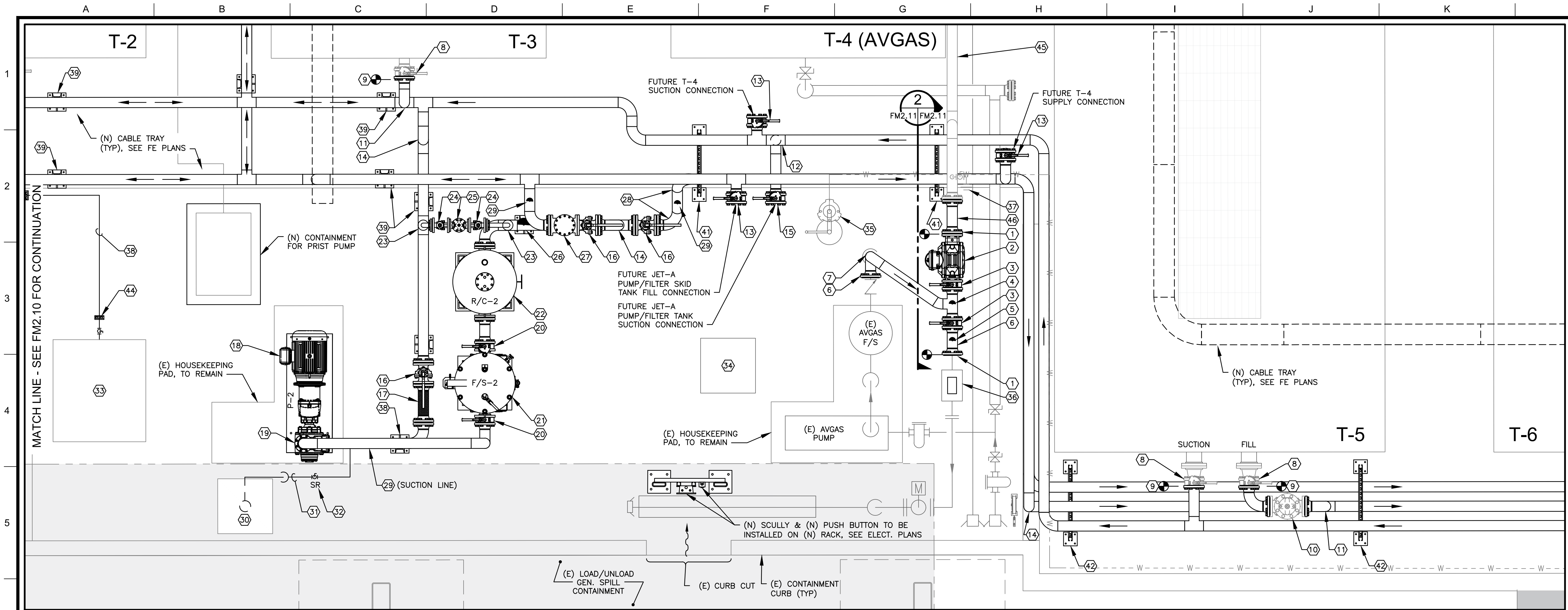
- KEYNOTES: (#)**
1. 30K GAL. D/W JET-A TANK #1
 2. 20K GAL. S/W JET-A TANK #2
 3. 20K GAL. S/W JET-A TANK #3
 4. 20K GAL. S/W AVGAS TANK #4
 5. 40K GAL. D/W JET-A TANK #5
 6. 40K GAL. D/W JET-A TANK #6
 7. 40K GAL. S/W JET-A TANK #7
 8. 12K GAL. S/W MOGAS/DIESEL TANKS #8 & #9 (10K GAL DIESEL TANK #8, 2K GAL MOGAS TANK #9)
 9. JET-A OFFLOADING CONNECTION
 10. JET-A LOADING POSITION
 11. JET-A SUMP SEPARATOR
 12. AVGAS OFFLOADING POSITION
 13. AVGAS LOADING POSITION
 14. AVGAS VAPOR RECOVERY
 15. AVGAS SUMP SEPARATOR
 16. 1.2 K-GAL. OWS
 17. 3" OWS EFFLUENT DISCHARGE
 18. MOGAS OFFLOADING POSITION
 19. MOGAS PUMP
 20. MOGAS VAPOR RECOVERY CONNECTION
 21. DIESEL OFFLOADING POSITION
 22. DIESEL PUMP
 23. MOGAS/DIESEL DISPENSER
 24. JET-A ANTI-ICING AGENT TANK
 25. JET-A ANTI-ICING TRANSFER PUMP
 26. TANK CATWALK ACCESS STAIR
 27. TANK CATWALK ACCESS LADDER
 28. CANOPY (SHADED)
 29. CONTAINMENT DRAIN INLET & PUMP
 30. STORM WATER DROP INLET

31. U/G STORM LINE
32. SITE BOLLARD
33. AREA LIGHT
34. U/G WATER SUPPLY
35. EMERGENCY SHOWER/EYE WASH STATION
36. EFSO
37. FACILITY ACCESS SLIDING GATE
38. FACILITY FENCE
39. DISPENSER WIRING
40. 24"x24"x8" J-BOX (DIMENSIONS APPROXIMATE - FIELD VERIFY)
41. 12"x12"x8" J-BOX FOR VEEDER ROOT WIRING (DIMENSIONS APPROXIMATE - FIELD VERIFY)
42. VEEDER ROOT WIRING
43. TRANSFORMERS - SEE ELECTRICAL PLANS
44. ELECTRICAL WIRING FROM CONTROL BUILDING
45. ELECTRICAL HAND HOLE
46. PUMP POWER & DISTRIBUTION PANEL - SEE ELECTRICAL PLANS
47. GENERATOR
48. VEEDER ROOT ALARM HORN
49. SCULLY RACK
50. GROUNDING REEL
51. STOP SIGN
52. STOP BAR PAVEMENT MARKING
53. HOSE BIB
54. DUCT MARKER
55. TELEPHONE SPLICE BOX

- GENERAL NOTES:**
1. PRE-EXISTING SURVEY DATA WAS OBTAINED BY CURRIER & COMPANY FOR GENERAL INFORMATION AND USED TO GENERATE THESE PLANS. NO NEW SURVEY WAS AUTHORIZED OR CONDUCTED.
 2. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONAL INFORMATION PRIOR TO EITHER ORDERING OR FABRICATING MATERIALS.

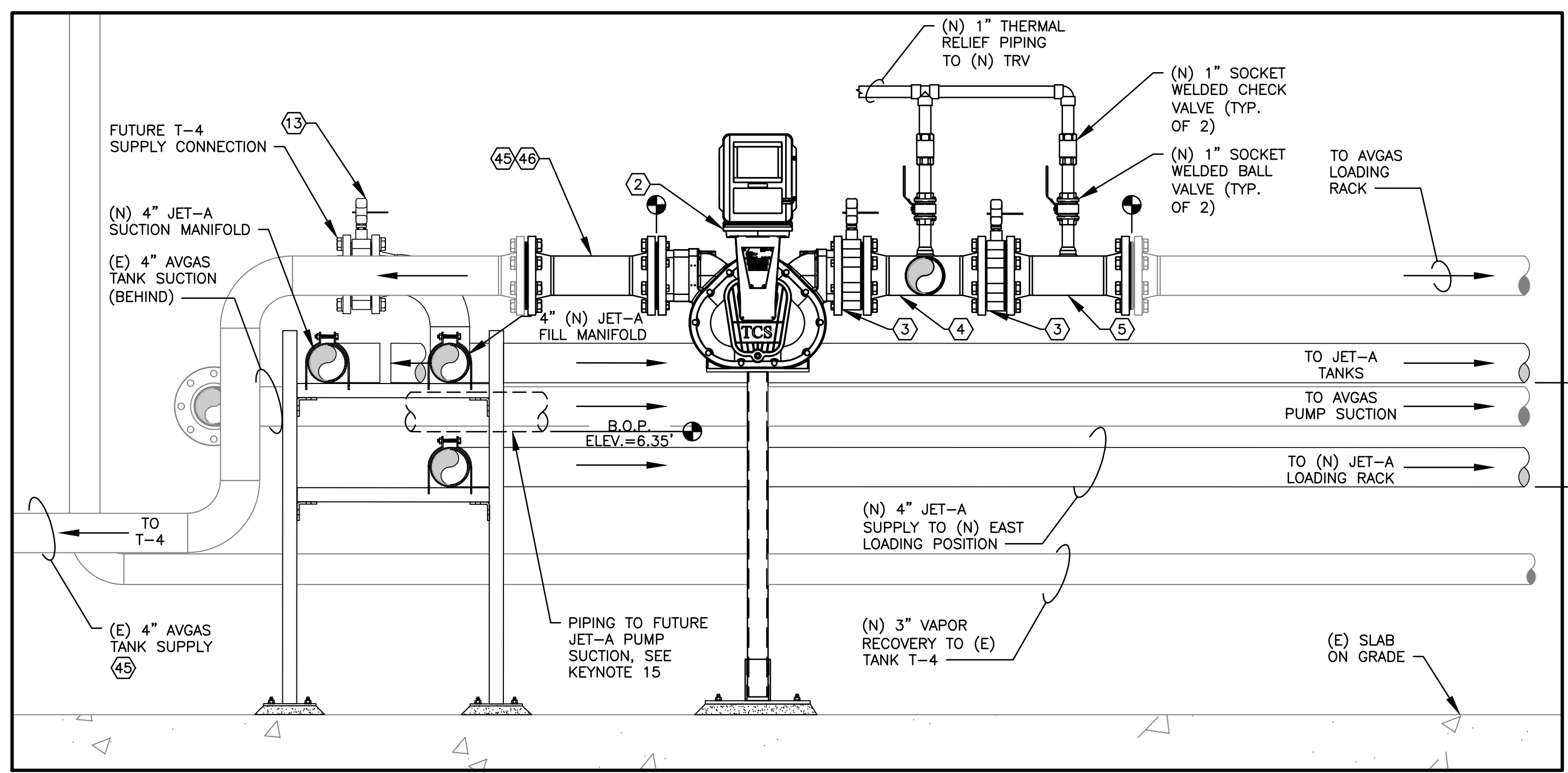
DATE		REVISIONS							
FUEL FACILITY IMPROVEMENTS PROJECT NAPLES AIRPORT (APF)		EXISTING OVERALL MECHANICAL CONDITIONS PLAN							
PROJECT NAME	PROJECT LOCATION	DRAWING NAME							
ISSUED FOR PERMIT									
CURRIER & CO., INC. 13323 W. WASHINGTON BLVD., SUITE 206 LOS ANGELES, CA 90066 (310) 279-5050									
DESIGNED BY: J.E.B.	DATE: 04/02/2024								
DRAWN BY: M.G.	PROJ. NO: 23049								
APPROVED BY: J.E.B.	FILE NAME: 23049FM200								
FM2.00									

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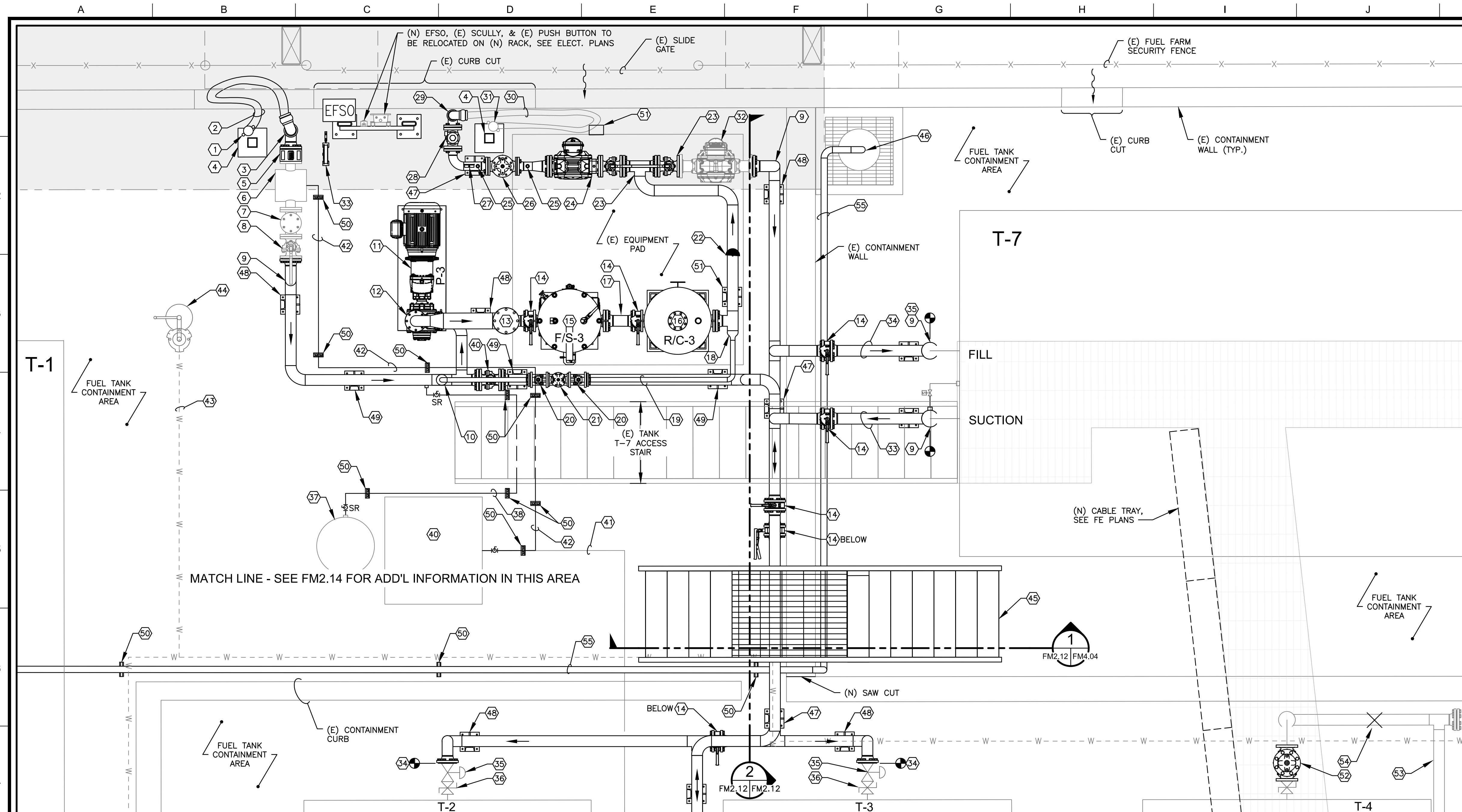
1 PROPOSED EAST PUMP AREA PLAN
 SCALE: NOTED
 SCALE IN FEET (22x34)
 TRUE NORTH

- KEYNOTES: (#)**
- (E) 4" FLANGE (AVGAS SYSTEM)
 - (N) TCS 700-35 METER WITH (N) TCS-3000 ELECTRONIC REGISTER, SEE KEYNOTE 36 (AVGAS SYSTEM)
 - (N) 4" BUTTERFLY VALVE (AVGAS SYSTEM)
 - (N) 4" TEE WITH 3/4" COUPLING FOR THERMAL RELIEF CONNECTION (AVGAS SYSTEM)
 - (N) 12" L SPOOL WITH 3/4" COUPLING FOR THERMAL RELIEF CONNECTION (AVGAS SYSTEM)
 - (N) 4"x12" FLANGED CONNECTION (AVGAS SYSTEM)
 - (N) STACKED 90-DEG ELBOWS FOR PIPING ELEVATION CHANGE (AVGAS SYSTEM)
 - (E) 4" BUTTERFLY VALVE, TO REMAIN
 - (N) 4" FLANGED CONNECTION TO (E) TANK BUTTERFLY VALVE (JET-A SYSTEM)
 - (E) RELOCATED TANK T-5 HIGH-LEVEL SHUTOFF CONTROL VALVE, RE-WORK TUBING AS NECESSARY TO SUIT RELOCATED VALVE. MATCH (E) PIPING SIZE, DO NOT TRAP OR KINK TUBING, BLEED ALL AIR
 - (N) 4" TEE ROLLED UPWARD WITH (N) 4" 90-DEG EL
 - (N) 4" TEE ROLLED DOWNWARD WITH (N) 4" 90-DEG EL
 - (N) 4" BUTTERFLY VALVE WITH (N) 4" BLIND FLANGE
 - (N) STACKED 90-DEG ELBOWS FOR PIPING ELEVATION CHANGE
 - (N) 4" BUTTERFLY VALVE WITH (N) 4" BLIND FLANGE TO FUTURE JET-A PUMP SUCTION
 - (N) 4" BALL VALVE
 - (N) 4" FLANGED X 16" L SS BRAIDED HOSE
 - (N) PUMP AND MOTOR P-2, SEE PROPOSED PUMP SCHEDULE ON SHT FM1.03. ANCHOR PER MANUFACTURER'S RECOMMENDATION AND GROUT BASE.
 - (N) 4" CHECK VALVE INSTALLED ON PUMP DISCHARGE
 - (N) 4" BUTTERFLY VALVE
 - (N) FILTER SEPARATOR VESSEL F/S-2, SEE FM1.03 VESSEL SCHEDULE
 - (N) RELAXATION CHAMBER R/C-2, SEE FM1.03 VESSEL SCHEDULE
 - (N) 4" TEE WITH (N) 4"x1 1/2" CONC. REDUCER FOR BACK PRESSURE RELIEF RETURN
 - (N) 1 1/2" BALL VALVE (HANDLES NOT SOWN)
 - (N) 1 1/2" BACK PRESSURE RELIEF CONTROL VALVE, SEE FM1.03 FOR RELIEF SETPOINT
 - (N) FLOW SWITCH, SEE DETAIL 5/FM4.01
 - (N) 4" CHECK VALVE
 - (N) 90-DEG ELBOWS, ROLLED TO SUIT ELEVATION CHANGE
 - (N) 3/4" COUPLING FOR THERMAL RELIEF CONNECTION
 - (E) RELOCATED JET-A SUMP SEPARATOR
 - (N) 1" JET-A RECOVERY LINE ROUTED TO PUMP P-2'S SUCTION
 - (N) SPRING RETURN BALL VALVE
 - (E) RELOCATED FUEL ADDITIVE TANK
 - (E) AVGAS SUMP SEPARATOR TO REMAIN
 - (E) EMERGENCY SHOWER/EYEWASH STATION, TO REMAIN
 - (N) TCS 3000 ELEC REGISTER INSTALLED ON (E) PD METER
 - (E) 3/4" UNION FOR (N) THERMAL RELIEF PIPING TIE-IN
 - (N) FUEL ADDITIVE PIPING TO ADDITIVE INJECTOR, SEE FM2.10 FOR CONTINUATION
 - (N) PIPE SUPPORT PS-1, SEE DETAIL 1/FM4.02
 - (N) PIPE SUPPORT PS-2, SEE DETAIL 2/FM4.02
 - (N) PIPE SUPPORT PS-3, SEE DETAIL 3/FM4.02
 - (N) PIPE SUPPORT PS-5, SEE DETAIL 5/FM4.02
 - (N) PIPE SUPPORT PS-6, SEE DETAIL 6/FM4.02
 - (N) PIPE SUPPORT PS-10, SEE DETAIL 10/FM4.02
 - CONTRACTOR SHALL SHIFT THE (E) 4" TANK 4 SUPPLY LINE 15-INCHES TO THE NORTH TO CREATE SPACE ON THE INLET NOZZLE TO ACCOMMODATE THE (N) 4" HIGH-LEVEL SHUTOFF VALVE (SEE FM2.12, KEYNOTE 52).
 - (N) 4" X 15" SPOOL



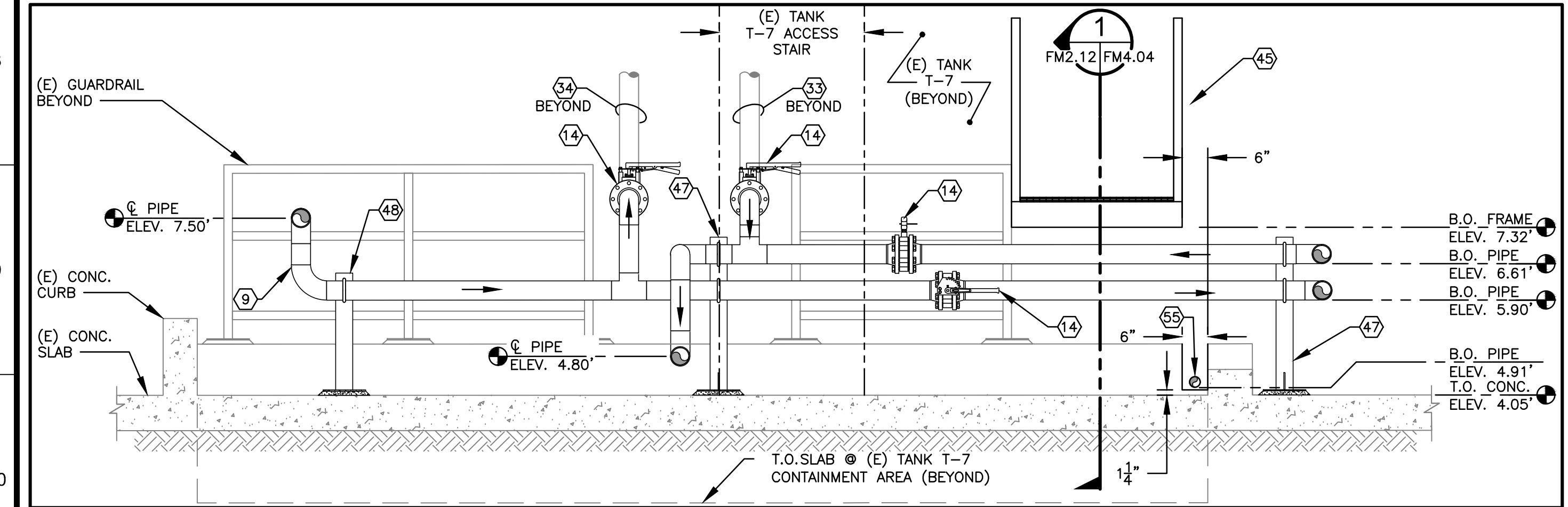
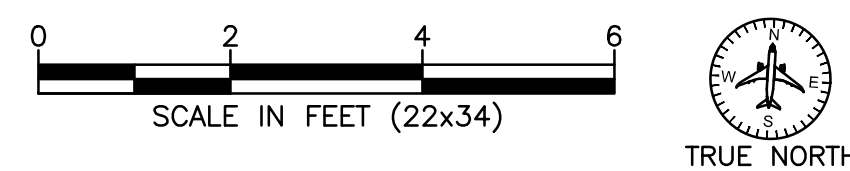
2 PIPING (LOOKING EAST)
 FM2.11 FM3.00 SCALE: 1"=1'

DATE	
REVISIONS	
FUEL FACILITY IMPROVEMENTS PROJECT NAPLES AIRPORT (APF) PROPOSED EAST PUMP AREA PLAN	
PROJECT NAME	
PROJECT LOCATION	
DRAWING NAME	
ISSUED FOR PERMIT	
CURRIER & CO., INC. 13323 W. WASHINGTON BLVD., SUITE 206 LOS ANGELES, CA 90066 (310) 279-5050	
SEAL:	
DESIGNED BY: J.E.B.	DATE: 04/02/2024
DRAWN BY: M.G.	PROJ. NO: 23049
APPROVED BY: J.E.B.	FILE NAME: 23049FM211
FM2.11	



- KEYNOTES:**
- (N) 4" API COUPLER, SEE DETAIL 7/FM4.01
 - (N) 4" DIA. X 10' UNLOADING HOSE
 - (N) 4" SWIVEL JOINT
 - (N) HOSE HANGER, SEE DETAIL 2/FM4.04
 - (N) 4" CHECK VALVE
 - (E) RELOCATED 4" PRIST INJECTOR, REWORK SMALL BORE PRIST SUPPLY LINE TO SUIT REVISED LOCATION (FIELD VERIFY SIZE)
 - (E) RELOCATED 4" BASKET STRAINER
 - (E) RELOCATED 4" BALL VALVE
 - (N) STACKED 90-DEG ELBOWS FOR PIPING ELEVATION CHANGE
 - (N) 4" TEE ROLLED UPWARD, WITH (N) 4"x1 1/2" CONC. REDUCER FOR BACK PRESSURE RELIEF RETURN
 - (N) PUMP AND MOTOR P-3 WITH CHECK VALVE ON PUMP DISCHARGE, SEE FM1.03 FOR PROPOSED PUMP SCHEDULE. ANCHOR PER MANUFACTURER'S RECOMMENDATION AND GROUT BASE.
 - (N) 4" CHECK VALVE INSTALLED ON PUMP DISCHARGE
 - (N) 6" PIPING WITH AIR ELIMINATOR ASSEMBLY, SEE DETAIL 1/FM4.01
 - (N) 4" BUTTERFLY VALVE
 - (N) FILTER SEPARATOR VESSEL F/S-3, SEE FM1.03 FOR PROPOSED VESSEL SCHEDULE
 - (N) RELAXATION CHAMBER R/C-3, SEE FM1.03 FOR PROPOSED VESSEL SCHEDULE
 - (N) 4"x12" L FLANGED SPOOL
 - (N) 4"x1 1/2" CONC. REDUCER
 - (N) 1 1/2" BACK PRESSURE RELIEF LINE
 - (N) 1 1/2" BALL VALVE
 - (N) 1 1/2" BACK PRESSURE RELIEF CONTROL VALVE, SEE FM1.03 FOR RELIEF SETPOINT
 - (N) FLOW SWITCH, SEE DETAIL 5/FM4.01
 - (N) 4" BALL VALVE
 - (N) TCS 700-35 METER WITH (N) TCS-3000 ELECTRONIC REGISTER & SUPPORT, SEE DETAIL 8/FM4.02
 - (N) 3/4" COUPLING FOR THERMAL RELIEF CONNECTION, SEE DETAIL 5/FM4.00
 - (N) 3" PRESSURE REDUCING SOLENOID OPERATED CONTROL VALVE
 - (N) PRESSURE GAUGE ASSEMBLY, SEE DETAIL 1/FM4.00 AND FM1.03 FOR SETPOINT
 - (N) 3" FUSIBLE LINK (EXTERNAL SAFETY) VALVE
 - (N) 3" SWIVEL JOINT
 - (N) 2 1/2"x10' L API-1529 LOADING HOSE
 - (E) RELOCATED 2 1/2" LOADING BAYONET, SEE DETAIL 6/FM4.01
 - (E) RELOCATED METER WITH (E) MECHANICAL REGISTER
 - (N) 4" RISER TO (E) TANK #7 TANK SUCTION NOZZLE
 - (N) 4" RISER TO (E) TANK FILL NOZZLE
 - (E) 4" OVERFILL PREVENTION VALVE, TO REMAIN
 - (E) 4" BUTTERFLY VALVE, TO REMAIN
 - (E) RELOCATED JET-A SUMP SEPARATOR
 - (N) 1" RETURN-TO-SERVICE LINE, SEE FM1.03
 - (N) 1" COUPLING INSTALLED ON 4" SUCTION LINE FOR RETURN-TO-SERVICE CONNECTION
 - (E) PRIST TANK, TO REMAIN
 - (E) PRIST TRANSFER PIPING, TO REMAIN
 - (N) 1" PRIST PIPING TO RELOCATED PRIST INJECTOR
 - (E) U/G WATER SUPPLY TO EMERGENCY EYEWASH STATION/SHOWER, TO REMAIN
 - (E) EMERGENCY EYEWASH STATION/SHOWER, TO REMAIN
 - (N) CROSS-OVER STAIRS, SEE DETAIL 1/FM4.04
 - (N) FOOT VALVE, SEE DETAIL 4/FM4.04
 - (N) PIPE SUPPORT PS-1, SEE DETAIL 1/FM4.02
 - (N) PIPE SUPPORT PS-2, SEE DETAIL 2/FM4.02
 - (N) PIPE SUPPORT PS-4, SEE DETAIL 4/FM4.02
 - (N) PIPE SUPPORT PS-10, SEE DETAIL 10/FM4.02
 - (N) X1 CLOUD CONNECT COMMUNICATIONS UNIT, SEE ELECTRICAL PLANS
 - (N) 4" HIGH-LEVEL SHUTOFF CONTROL VALVE ON TANK 4 SUPPLY NOZZLE
 - CONTRACTOR SHALL SHIFT THE (E) 4" AVGAS SUPPLY LINE 15-INCHES NORTH TO SUIT NEW HIGH LEVEL SHUTOFF VALVE
 - RELOCATE (E) PIPE SUPPORT TO SUIT RELOCATED AVGAS SUPPLY PIPE (NOTE: THE OTHER U-BOLT SUPPORTS SHALL REMAIN. CONTRACTOR TO LOOSEN THEM TO SHIFT THE PIPE AND THEN RE-TIGHTEN.
 - 2 1/2" DRAIN PIPING TO OWS PUMPS, SEE FM2.14 AND FM1.05B FOR CONTINUATION

1 PROPOSED NORTH PUMP AREA PLAN
SCALE: NOTED



2 TANK #7 FILL & SUCTION PIPING - ELEVATION (LOOKING EAST)
SCALE: NOTED



DATE	REVISIONS

CURRIER
ENGINEERING MANAGEMENT CONSULTING

Naples AIRPORT

FUEL FACILITY IMPROVEMENTS PROJECT	NAPLES AIRPORT (APF)	PROPOSED NORTH PUMP AREA PLAN
PROJECT NAME	PROJECT LOCATION	DRAWING NAME

ISSUED FOR PERMIT

CURRIER & CO., INC.
13323 W. WASHINGTON BLVD., SUITE 206
LOS ANGELES, CA 90066
(310) 279-5050

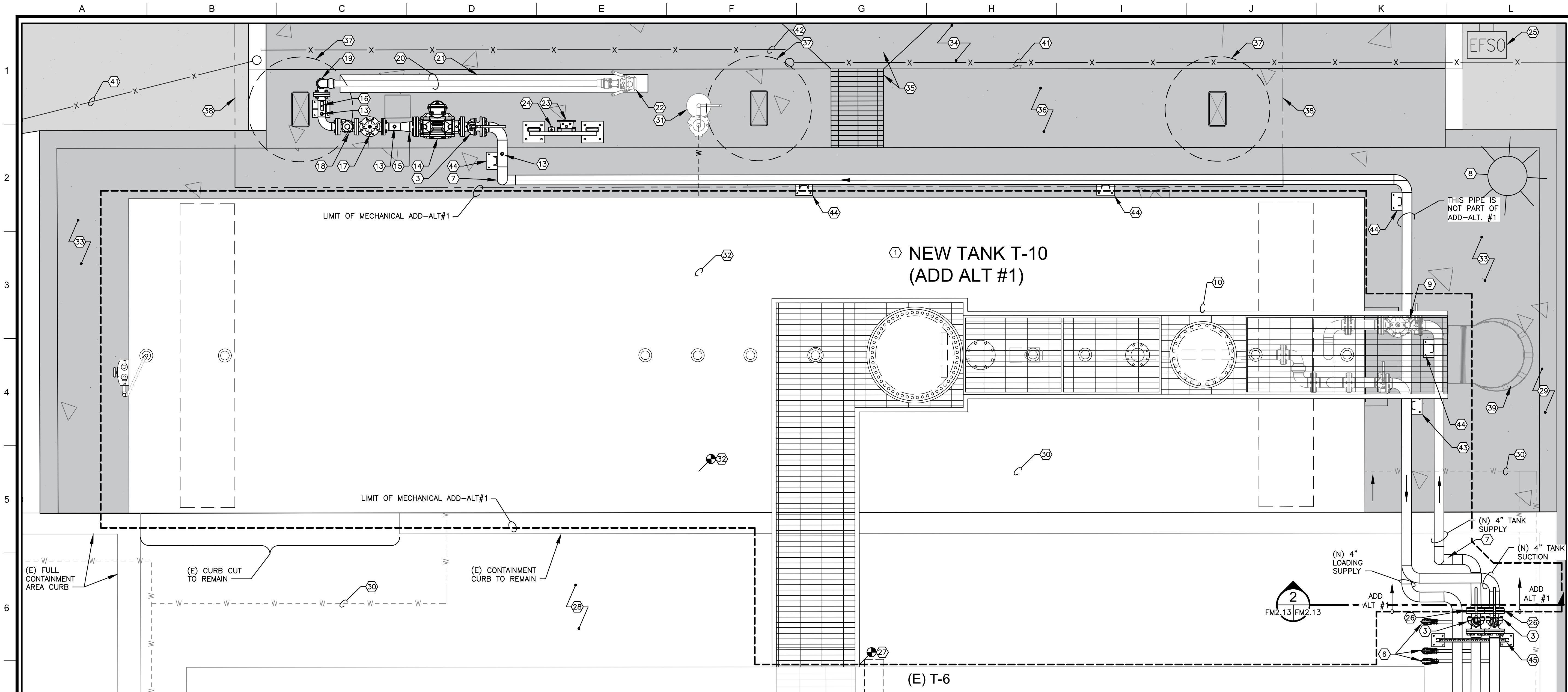
SEAL:

JEFFREY E. BURNS
PROFESSIONAL ENGINEER
STATE OF FLORIDA
92872 - EXPIRES 2/28/2025

DESIGNED BY: J.E.B. DATE: 04/02/2024
DRAWN BY: M.G. PROJ. NO: 23049
APPROVED BY: J.E.B. FILE NAME: 23049FM212

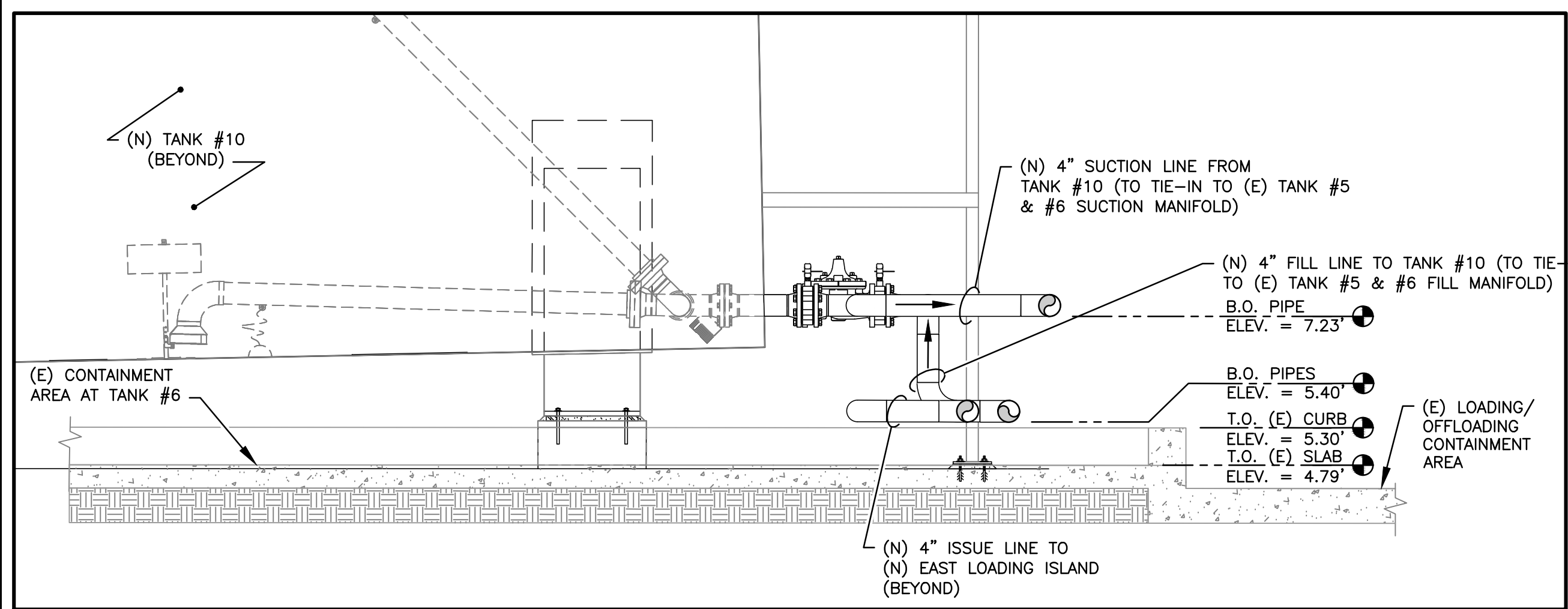
SHEET NUMBER: **FM2.12**

ISSUED FOR PERMIT



1 PROPOSED TANK #10 AREA PLAN

SCALE: NOTED



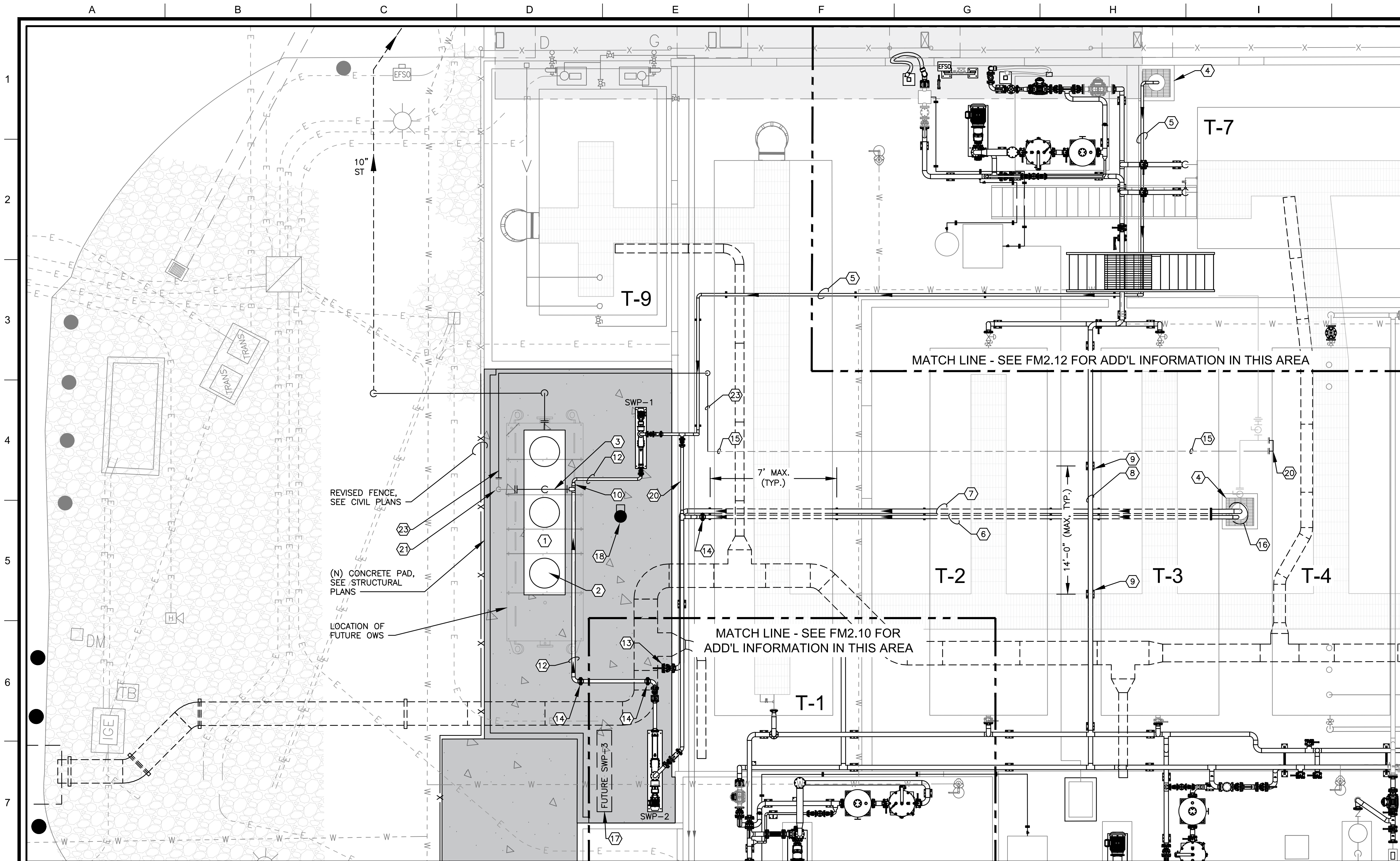
2 EAST LOADING AND TANK #10 FILL AND SUCTION PIPING

SCALE: 1"=2'

- KEYNOTES: (#)**
- (N) 40,000-GAL UL-142 SINGLE-WALLED JET-A TANK T-10 WITH CATWALK AND TANK APPURTENANCES, SEE SHEET FT1.00
 - (N) 4" FLANGED CONNECTION TO (E) BUTTERFLY VALVE
 - (N) 4" BALL VALVE
 - (E) RELOCATED TANK T-6 HIGH-LEVEL SHUTOFF CONTROL VALVE, RE-WORK TUBING AS NECESSARY TO SUIT RELOCATED VALVE. MATCH (E) TUBING SIZE, DO NOT TRAP OR KINK TUBING, BLEED ALL AIR
 - (N) 4" TEE ROLLED UPWARD WITH (N) 4" 90-DEG EL
 - (N) 2" LPD ASSEMBLY, SEE DETAIL 2/FM4.00
 - (N) STACKED 90-DEG ELBOWS FOR PIPING ELEVATION CHANGE
 - NOT USED
 - (N) 4" HIGH-LEVEL SHUTOFF CONTROL VALVE
 - (N) FLOAT CONTROL SS TUBING, SIZED PER MANUFACTURER'S RECOMMENDATIONS. ROUTE ALONG CATWALK TO FLOAT CONTROL PILOT, DO NOT KINK OR TRAP
 - NOT USED
 - NOT USED
 - (N) 3/4" COUPLING FOR THERMAL RELIEF CONNECTION
 - (N) TCS 700-35 METER WITH (N) TCS-3000 ELECTRONIC REGISTER & SUPPORT, SEE KEYNOTE 46
 - (N) 4"x3" CONC. RED. SPOOL (21"L)
 - (N) PRESSURE GAUGE ASSEMBLY, SEE DETAIL 5/FM4.00 AND FM1.03 FOR GRADATION
 - (N) 3" PRESSURE REDUCING SOLENOID OPERATED CONTROL VALVE
 - (N) 3" FUSIBLE LINK (EXTERNAL SAFETY) VALVE
 - (N) 3" FLANGED X NPT SWIVEL, REDUCE TO 2 1/2" WITH REDUCING BUSHING, SEE DETAIL 1/FM4.03
 - (N) 2 1/2"x10'L API 1529 LOADING HOSE
 - (N) HOSE TROUGH, SEE DETAIL 1/FM4.03
 - (E) RELOCATED 2 1/2" LOADING BAYONET, SEE DETAIL 6/FM4.01
 - (N) SCULLY ST-15 OVERFILL PREVENTION UNIT WITH TRUCK PLAN AND DEADMAN CONTROLLER
 - (N) PUMP P-2 ON/OFF PUSH BUTTON STATION
 - (N) EFSO STATION, SEE FE PLANS
 - IF ADD ALTERNATE #1 IS NOT PURSUED BY THE OWNER, CONTRACTOR SHALL INSTALL A (N) 4" BLIND AT THIS LOCATION (TYP OF 2)
 - IF ADD ALTERNATE #1 IS NOT PURSUED BY THE OWNER, CONTRACTOR SHALL INSTALL A (N) CATWALK EXTENSION & STAIR TO (E) TANK #6 CATWALK
 - (E) FULL TANK CONTAINMENT AREA
 - (E) LOADING/OFFLOADING CONTAINMENT AREA
 - (E) U/G WATER LINE TO BE PROTECTED IN PLACE

- (E) RELOCATED EYEWASH STATION
- TIE-IN (N) U/G WATER LINE FOR RELOCATED EMERGENCY SHOWER & EYE WASH STATION, SEE STRUCTURAL PLANS
- (N) CONCRETE TANK #10 CONTAINMENT AREA WHICH DRAIN INTO (E) FULL CONTAINMENT AREA, SEE STRUCTURAL PLANS
- (N) CONCRETE LOADING CONTAINMENT AREA WHICH DRAINS ONTO TANK #10 FULL CONTAINMENT AREA, SEE STRUCTURAL PLANS
- (N) CONCRETE DRAINAGE TROUGH THROUGH LOADING EQUIPMENT AREA, SEE STRUCTURAL PLANS
- (N) LOADING EQUIPMENT ISLAND, SEE STRUCTURAL PLANS
- (N) LOADING CANOPY FOUNDATION, SEE STRUCTURAL PLANS
- (N) LOADING CANOPY EXTENTS, BY OTHERS
- IF ADD ALTERNATE #1 IS NOT PURSUED BY THE OWNER, CONTRACTOR SHALL RELOCATE (E) TANK ACCESS STAIR WITH (N) EXTENSION, SEE DETAIL 2/FM4.03
- (N) LIGHTPOLE, SEE ELECTRICAL PLANS
- (N) SECURITY FENCE, SEE CIVIL & STRUCTURAL PLANS
- (N) SLIDING GATE, SEE CIVIL & STRUCTURAL PLANS
- (N) PIPE SUPPORT PS-1, SEE DETAIL 1/FM4.02
- (N) PIPE SUPPORT PS-2, SEE DETAIL 2/FM4.02
- (N) PIPE SUPPORT PS-6, SEE DETAIL 6/FM4.02
- (N) PIPE SUPPORT PS-8, SEE DETAIL 8/FM4.02

DATE	
REVISIONS	
FUEL FACILITY IMPROVEMENTS PROJECT NAPLES AIRPORT (APF) PROPOSED TANK #10 AREA PLAN	
PROJECT NAME	DRAWING NAME
PROJECT LOCATION	
ISSUED FOR PERMIT	
CURRIER & CO., INC. 13323 W. WASHINGTON BLVD., SUITE 206 LOS ANGELES, CA 90066 (310) 279-5050	
DESIGNED BY: J.E.B.	DATE: 04/02/2024
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APPROVED BY: J.E.B.	FILE NAME: 23049FM213
SHEET NUMBER:	FM2.13





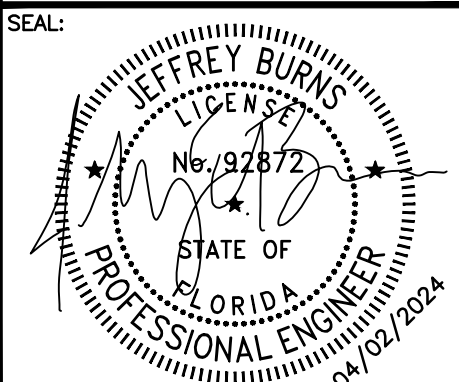
1 OIL / WATER SEPARATOR RELOCATION PLAN

SCALE: NOTED

KEYNOTES: (E)

1. (E) RELOCATED OIL-WATER SEPARATOR
2. (E) HIGH OIL-LEVEL PROBE, SEE FE PLANS
3. (E) 4" RELOCATED RISER SPOOL
4. (E) CATCH BASIN
5. (N) 2½" SS STORMWATER SUCTION LINE TO (N) POSITIVE CAVITY PUMP. SWP-1
6. (N) 3" SS STORMWATER SUCTION LINE TO (N) POSITIVE CAVITY PUMP. SWP-2
7. (N) 4" SS STORMWATER SUCTION LINE TO FUTURE POSITIVE CAVITY PUMP. SWP-3
8. (N) 4" SS SUCTION (TOP) AND 4" TANK FILL (BOTTOM) LINES
9. (N) PIPE SUPPORT PS-1, SEE DETAIL 1/FM4.02
10. (N) 4"x2½" SS REDUCER
11. (N) 4" SS TEE FOR FUTURE SWP-3 PUMP CONNECTION
12. (N) 3" SS FORCE MAIN TO RELOCATED OWS
13. (N) 4" SS BALL VALVE WITH BLIND FLANGE FOR FUTURE SWP-3 PUMP SUCTION CONNECTION
14. (N) 3" SS FLANGE SET
15. (E) RELOCATED 3" CS PIPE. CONTRACTOR SHALL RELOCATE THE EXISTING 3" PIPE AND SUPPORTS THAT CURRENTLY SUPPLIES THE OWS IN ITS EXISTING LOCATION TO SUIT THE RELOCATED OWS. THIS TEMPORARY CONDITION SHALL REMAIN UNTIL THE NEW SWP PUMPS AND SUCTION LINES ARE INSTALLED AND COMMISSIONED. CONTRACTOR TO PROVIDE ANY AND ALL FITTINGS, PIPE AND PIPE SUPPORTS NECESSARY TO SUIT THE TEMPORARY INSTALLATION AS NO INCREASE TO THE CONTRACT SUM. ALTERNATE PIPE ROUTING PROPOSED BY THE CONTRACTOR SHALL BE SUBMITTED THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION. SEE FM1.05A AND FM1.05B.
16. (N) 3" SS AND 4" SS DROP TUBES WITH FOOT VALVES, SEE DETAIL 4/FM4.04.
17. (N) 3" SS SUCTION DROP TUBE TO BE INSTALLED AT THE TIME OF THE INSTALLATION OF (N) SWP-2 PUMP, EXISTING SUMP PUMP TO BE REMOVED
18. FUTURE PUMP SPW-3
19. (E) RELOCATED OWS ALARM STROBE LIGHT.
20. (N) SS PIPE BRIDGE, SEE FM1.05B
21. (N) SPOOL FABRICATED OUT OF (2) 90° ELBOWS TO TEMPORARILY TIE IN (E) 3" RELOCATED PIPE INTO (E) STORMWATER PUMP MANIFOLD
22. (E) SPOOL TO BE TEMPORARILY RELOCATED AND MODIFIED TO SUIT TEMPORARY CONDITIONS.
23. (N) TEMPORARY 3" PIPE AND FITTINGS TO SUIT TEMPORARY INSTALLATION.



DATE									
REVISIONS									
									
FUEL FACILITY IMPROVEMENTS PROJECT			NAPLES AIRPORT (APF)			OIL / WATER SEPARATOR RELOCATION PLAN			
PROJECT NAME			PROJECT LOCATION			DRAWING NAME			
ISSUED FOR PERMIT			CURRIER & CO., INC. 13323 W. WASHINGTON BLVD., SUITE 206 LOS ANGELES, CA 90066 (310) 279-5050						
SEAL:									
DESIGNED BY:	J.E.B.	DATE:	04/02/2024						
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APPROVED BY:	J.E.B.	FILE NAME:	23049FM214						
SHEET NUMBER:			FM2.14						

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