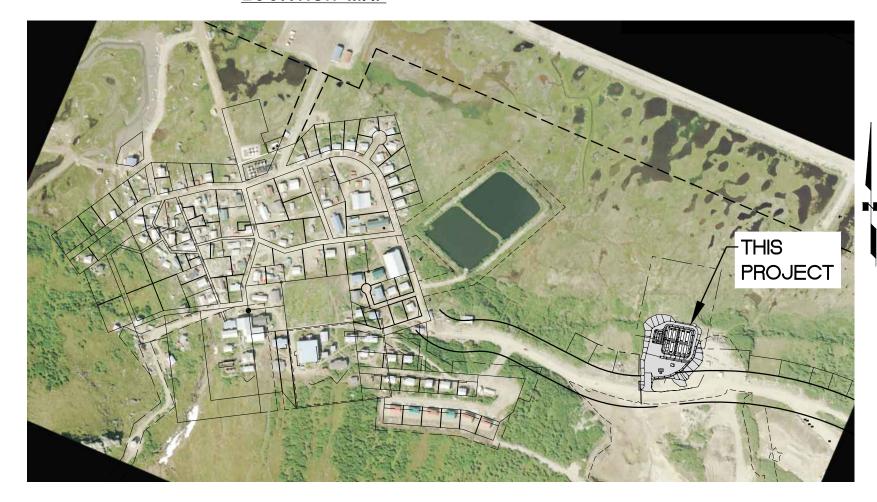
Arctic Ocean SCAMMON BAY, ALASKA

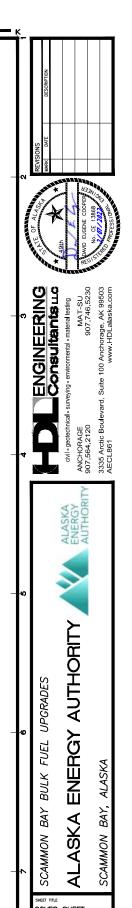
SCAMMON BAY BULK FUEL UPGRADES SCAMMON BAY, ALASKA **CONSTRUCTION DRAWINGS**

LOCATION MAP



VICINITY MAP

REVISED 11-28-2023



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DRAWING INDEX					
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E6.0	ELECTRICAL DETAILS				
E6.1	ELECTRICAL DETAILS				

TESTING, START-UP, AND COMMISSIONING

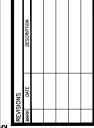
TANK FARM:

- 1. PERFORM SYSTEM TESTING, START-UP, AND COMMISSIONING IN ACCORDANCE WITH THE FOLLOWING PROCEDURES:
- PRESSURE TEST ALL PIPING IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, DELIVER ORIGINAL TEST RESULTS TO PROJECT MANAGER
- UPON FILLING OF TANKS, VERIFY PRODUCT LEVEL WITH GAUGING STICK AND CALIBRATE ALL TANK GAUGES.
- CHECK ALL PUMPS FOR PROPER ROTATION. PRIOR TO OPERATING CENTRIFUGAL PUMPS. PRIME THE PUMP CAVITY WITH FUEL. ON INITIAL STARTUP, WARM PUMP BODY IF AMBIENT TEMPERATURE IS
- CHECK ALL CONTROL AND ALARM FUNCTIONS. MANIPULATE FLOATS TO SIMULATE LOW AND HIGH LEVEL CONDITIONS. SET TIMING RELAYS FOR 30 SECONDS AND VERIFY TIME-OUT FUNCTION. RE-SET TIMERS TO VALUES INDICATED. VERIFY LATCHING AND RESET FUNCTIONS. EMERGENCY STOP FUNCTION, AND OPERATION OF ALL SIGNAL LAMPS AND HORNS. OBSERVE OPERATION OF ACTUATED VALVES. CHECK AREA LIGHTING AND VERIFY OPERATION OF PHOTOCELL CONTROLS.
- FILL AND DISPENSING TANKS: REMOVE AND CLEAN STRAINER SCREENS UPON COMPLETION OF INITIAL FILLING OF TANKS. REPLACE FILTER AT DISPENSER AFTER FIRST 100 GALLONS OF PRODUCT HAS BEEN PUMPED THROUGH DISPENSER.
- TEST ALL FUEL TRANSFER FUNCTIONS.
- VERIFY ALL SIGNS, PLACARDS, AND VALVE TAGS ARE PROPERLY LOCATED. VERIFY PROPER COLOR CODE AND LABELING FOR ALL

GENERAL

- TOPOGRAPHIC AND PLANIMETRIC INFORMATION SHOWN IN THESE DRAWINGS WAS PROVIDED BY A FIELD SURVEY PERFORMED BY HDL ENGINEERING CONSULTANTS, LLC (HDL), SEPTEMBER, 2020.
- CONTRACTOR SHALL VERIFY SITE CONDITIONS. DIMENSIONS, AND DETAILS PRIOR TO THE START OF CONSTRUCTION. IF ANY DISCREPANCIES AND/OR UNKNOWN CONDITIONS WHICH AFFECT THE PROJECT ARE FOUND, THE CONTRACTOR SHALL NOTIFY THE ENGINEER. THE CONTRACTOR WILL BE REQUIRED TO PROVIDE MINOR LAYOUT CHANGES IN THE FIELD. SUBJECT TO APPROVAL BY THE ENGINEER.
- NOT ALL UTILITIES MAY BE SHOWN ON THE PLANS. CONTRACTOR SHALL FIELD VERIFY EXISTING UTILITIES BEFORE CONSTRUCTION, CONTRACTOR SHALL PROTECT UTILITIES AT ALL TIMES DURING CONSTRUCTION. AND REPAIR DAMAGES IN ACCORDANCE WITH THE RESPECTIVE UTILITY COMPANIES REQUIREMENTS.
- CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL SIGNS, BARRICADES, WARNING LIGHTS, AND OTHER PROTECTIVE DEVICES NECESSARY FOR SAFFTY.
- CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE (IBC), INTERNATIONAL FIRE CODE (IFC), STATE AND FEDERAL OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATIONS U.S. ENVIRONMENTAL PROTECTION AGENCY ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION (ADEC) AND ALL OTHER STATE, FEDERAL, AND LOCAL LAWS AND REGULATIONS PERTAINING TO THIS PROJECT. ANY WORK PERFORMED BY THE CONTRACTOR CONTRARY TO SUCH LAWS OR REGULATIONS SHALL BE AT THE CONTRACTORS SOLE RISK AND EXPENSE.
- IN CASES OF CONFLICT IN THE REQUIREMENTS OF THE CONTRACT DOCUMENTS SUCH CONFLICT SHALL BE RECONCILED BY THE ACCEPTANCE OF THE FOLLOWING ORDER OF PRECEDENCE FOR THE VARIOUS CONTRACT DOCUMENTS: (1) THE CONTRACT; (2) THE BID; (3) SPECIAL CONDITIONS; (4) DIVISION 1-16 OR THE CONTRACT DOCUMENTS; (5) THE DRAWINGS; (6) THE STANDARD GENERAL PROVISIONS; AND (7) SPECIFICATIONS INCORPORATED BY REFERENCE IN ANY OF THE ABOVE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WORK WITH OTHER CONTRACTORS,
 SUBCONTRACTORS, THE OWNER, AND STATE AND FEDERAL
- CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS NOT PROVIDED BY THE OWNER INCLUDING BUT NOT LIMITED TO ROW PERMITS, DEWATERING PERMITS, LANDFILL PERMITS, AND ADEC
- ALL ITEMS SHOWN ARE NEW UNLESS SPECIFICALLY INDICATED AS EXISTING. INSTALL ALL MATERIAL AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, INSTRUCTIONS, AND INSTALLATION DRAWINGS UNLESS INDICATED OTHERWISE
- WORK SHALL BE PERFORMED WITH SKILLED CRAFTSMEN SPECIALIZING IN THE REQUIRED WORK. INSTALL ALL MATERIALS IN A NEAT, ORDERLY, AND SECURE FASHION, AS REQUIRED BY THESE DRAWINGS AND COMMONLY RECOGNIZED STANDARDS OF GOOD WORKMANSHIP
- THE PURPOSE OF SPECIFYING A NAME BRAND PRODUCT, OR EQUAL, IS TO ESTABLISH THE LEVEL OF QUALITY OF MATERIALS AND EQUIPMENT REQUIRED AND IS NOT A PRODUCT ENDORSEMENT, SUBMIT SUBSTITUTIONS IN WRITING FOR REVIEW AND APPROVAL
- PROVIDE MARKED UP DESIGN DRAWINGS TO REFLECT 23. FIELD CHANGES THROUGHOUT CONSTRUCTION. TURN OVER "RED LINE" CONSTRUCTION DRAWINGS TO ENGINEER AT COMPLETION OF THE PROJECT
- CONTRACTOR SHALL PROTECT ALL ITEMS NOT SCHEDULED FOR DEMOLITION DURING CONSTRUCTION. DISTURBED AREAS SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITION

- DRAWINGS ARE DIAGRAMMATIC AND DO NOT NECESSARILY SHOW ALL FEATURES OF THE REQUIRED WORK, PROVIDE ALL LABOR, EQUIPMENT AND MATERIALS REQUIRED FOR A COMPLETE, AND CODE COMPLIANT SYSTEM. VERIFY EXISTING FIELD CONDITIONS PRIOR TO STARTING CONSTRUCTION. IMMEDIATELY CONTACT THE ENGINEER FOR CLARIFICATION OF QUESTIONABLE ITEMS OR APPARENT CONFLICTS.
- ALL CONSTRUCTION SURVEYING AND LAYOUT SHALL BE PROVIDED BY THE CONTRACTOR UNLESS NOTED
- CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING AND MAINTAINING AN APPROVED PROJECT SPECIFIC STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IN ACCORDANCE WITH STATE AND FEDERAL REGULATIONS.
- ACCORDANCE WITH GENERALLY CONSTRUCTION PRACTICES, THE CONTRACTOR SHALL HAVE SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION THE PROJECT, INCLUDING SAFETY OF ALL PERSONS, SUBCONTRACTORS, SUPPLIERS, AND PROPERTY. THIS SHALL PERTAIN TO MATERIALS STAGED WHERE THE CONTRACTORS IS NOT ACTIVELY WORKING, STAGING AREAS, AND HAUL ROUTES. THIS SHALL INCLUDE CLEARING SNOW DRIFTS AND MAINTAINING ACCESS TO EXISTING FOUIPMENT AND FACILITIES AT ALL TIMES. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND IS NOT LIMITED TO NORMAL WORKING HOURS.
- CONTRACTORS WORKS SHALL NOT IMPACT OR RESTRICT VEHICLE MOVEMENT ON TRAVELED WAYS OUTSIDE OF THE PROJECT AREA.
- NO GROUND DISTURBING ACTIVITIES SHALL OCCUR BEYOND THE LIMITS OF THE EASEMENTS, EXCEPT NOTED
- CONTRACTOR SHALL PREPARE AND IMPLEMENT AN 20. APPROVED TRAFFIC CONTROL PLAN (TCP) SPECIFIC TO THEIR HAUL ROUTES AND SITE ACCESS. TCP SHALL NOT PREVENT OR HINDER THE FLOW OF VEHICLE PEDESTRIAN TRAFFIC IN THE COMMUNITY AND PROVIDE UNFETTER MOVEMENT BY EMERGENCY VEHICLES AT ALL TIMES. THE TCP SHALL CONFORM TO THE STANDARDS IN THE LATEST EDITION OF PART VI OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), AND SHALL ALSO CONFORM TO THE REQUIREMENTS IN THE LATEST EDITION AND SUPPLEMENTS OF THE ALASKA TRAFFIC MANUAL (ATM) PREPARED BY THE ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES.
- INSTALL ALL MATERIALS AND EQUIPMENT IN ACCORDANCE 21. WITH THE MANUFACTURER'S RECOMMENDATIONS, INSTRUCTIONS, INSTALLATION MANUALS, AND DRAWINGS.
 - NO BARGE LANDING AREAS, HAUL ROUTES, MATERIAL SOURCES, OR STOCKPILE AND STAGING AREAS ARE PROVIDED BY THE OWNER OUTSIDE OF THE PROJECT FOOTPRINT. THESE AREAS AND MATERIALS ARE TO BE CONTRACTOR-PROVIDED. CONTRACTORS SHALL MAKE THEIR OWN ARRANGEMENTS FOR BARGING, HAULING, MATERIAL PROCUREMENT, AND STOCKPILE AND STAGING AREAS SPECIFIC TO THEIR OWN MEANS AND METHODS AND OBTAIN ALL REQUIRED PERMITS, AUTHORIZATIONS, AND APPROVALS FOR THE USE OF THESE ROUTES AND AREAS AT NO ADDITIONAL COST TO THE OWNER. PAY ALL ROYALTIES FOR MATERIALS AND PROVIDE THE OWNER WITH A COPY OF ALL PERMITS, AGREEMENTS, AND APPROVALS. THE CONTRACTOR SHALL VERIFY CONDITION OF LOCAL ROADS AND TRADITIONAL BARGE LANDINGS PRIOR TO USE DETERMINE THEIR SUITABILITY TO MEET THEIR NEEDS. CONTRACTOR SHALL TAILOR THEIR OPERATIONS AND EQUIPMENT AS NEEDED TO DELIVER THE SPECIFIED MATERIAL TO THE PROJECT SITE.
- CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL BARGE LANDING AND HAUL ROUTES AND RETURNING THESE AREAS TO THEIR PRE-PROJECT CONDITION AFTER





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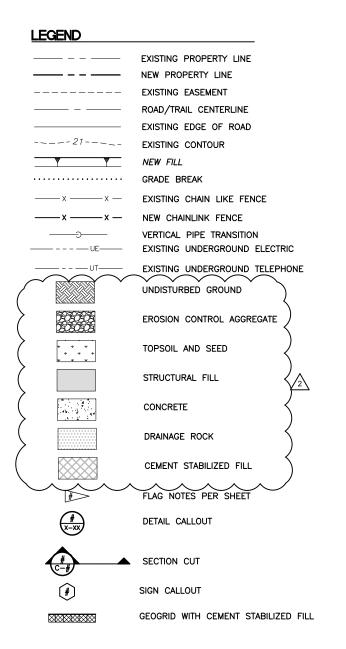
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7 DRAWING INDEX GENERAL NOTES

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HDL DEC /31/22 NONE



ABBREVIATIONS

AAC	ALASKA ADMINISTRATIVE CODE
ACI	AMERICAN CONCRETE INSTITUTE
ADEC	ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION
APS	FIBER EXPANSION JOINT MANUFACTURER
ASME	AMERICAN SOCIETY MECHANICAL ENGINEERS

AMERICAN SOCIETY FOR TESTING & MATERIALS
AMERICAN WOOD PROTECTION ASSOCIATION
ALUMINUM AWPA ALUM CMP CP CORRUGATED METAL PIPE CATHODIC PROTECTION

CU ELEV COPPER ELEVATION EACH WAY EXISTING
FINISHED GROUND
FEMALE PIPE THREAD FG FPT GAUGE GALVANIZED

GALV HDPE IBC IFC HIGH DENSITY POLYETHYLENE INTERNATIONAL BUILDING CODE INTERNATIONAL FIRE CODE

LENGTH MAXIMUM MAX ME MIN MPT NFPA MATCH EXISTING

MINIMUM
MALE PIPE THREAD
NATIONAL FIRE PROTECTION ASSOCIATION ON CENTER

OC OD

OUTSIDE DIAMETER
OCCUPATIONAL SAFETY AND HAZARD ADMINISTRATIONS
PRESSURE RELEASE VALVE OSHA PRV

POUNDS PER SQUARE INCH POUNDS PER SQUARE INCH GAUGE RIGHT OF WAY

PSI PSIG ROW SCH STA SCHEDULE STATION

STATION
STORM WATER POLLUTION PREVENTION PLAN
TEMPORARY CONSTRUCTION EASEMENT
TRAFFIC CONTROL PLAN SWPPP TCE

TCP TP TYP TEST PIT

TYPICAL UNDERGROUND ELECTRIC UE USS UT UNIT OF STUDY SURVEY UNDERGROUND TELEPHONE DIAMETER

TANK SCHEDULE (CAPACITY IN GALLONS)

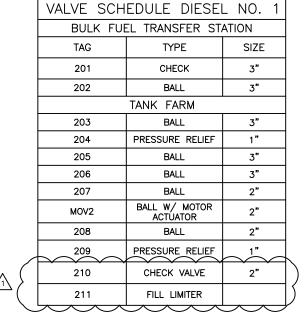
		DIE	SEL	GASC	DLINE	
TANK ID	OWNER	GROSS CAPACITY	NET CAPACITY (90% SHELL)	GROSS CAPACITY	NET CAPACITY (90% SHELL)	TANK DESCRIPTION
TANK 1	CITY OF SCAMMON BAY	27,000	24,300			NEW HORIZONTAL BULK TANK, SINGLE WALL
TANK 2	CITY OF SCAMMON BAY	27,000	24,300			NEW HORIZONTAL BULK TANK, SINGLE WALL
TANK 3	CITY OF SCAMMON BAY	27,000	24,300			NEW HORIZONTAL BULK TANK, SINGLE WALL
TANK 4	CITY OF SCAMMON BAY	6,000	5,400	6,000	5,400	NEW DUAL PRODUCT HORIZONTAL DISPENSING TANK, SINGLE WALL
TANK 5	CITY OF SCAMMON BAY			27,000	24,300	NEW HORIZONTAL BULK TANK, SINGLE WALL
TANK6	CITY OF SCAMMON BAY			27,000	24,300	NEW HORIZONTAL BULK TANK, SINGLE WALL
TANK 7	CITY OF SCAMMON BAY			27,000	24,300	NEW HORIZONTAL BULK TANK, SINGLE WALL
TANK 8	CITY OF SCAMMON BAY			27,000	24,300	NEW HORIZONTAL BULK TANK, SINGLE WALL
TOTAL		87,000	78,300	114,000	102,600	

VALVE SCHEDULE GASOLINE					
BULK FU	EL TRANSFER S	TATION			
TAG	TYPE	SIZE			
101	CHECK	3"			
102	BALL	3"			
	TANK FARM				
103	BALL	3"			
104	BALL	3"			
105	PRESSURE RELIEF	1"			
106	BALL	3"			
107	BALL	3"			
108	BALL	2"			
MOV1	BALL W/ MOTOR ACTUATOR	2"			
109	BALL	2"			
110	PRESSURE RELIEF	1"			
111	CHECK VALVE	2"			
112'	FILL LIMITER				

	BULK FUE	EL TRANSFER STA	ATION
	TAG	TYPE	SIZE
	201	CHECK	3"
	202	BALL	3"
		TANK FARM	
	203	BALL	3"
	204	PRESSURE RELIEF	1"
	205	BALL	3"
	206	BALL	3"
	207	BALL	2"
	MOV2	BALL W/ MOTOR ACTUATOR	2"
	208	BALL	2"
	209	PRESSURE RELIEF	1"
	210	CHECK VALVE	2"
, (211	FILL LIMITER	

PUMP SCHEDULE						
TANK FARM						
TAG	TYPE	SIZE	PRODUCT			
TP1	TRANSFER PUMP	2"	GASOLINE			
SP1	SUBMERSIBLE PUMP	2"	GASOLINE			
SP2	SUBMERSIBLE PUMP	2"	DIESEL			
TP2 TRANSFER PUMP 2" DIESEL						
	·	·				

DISPENSER VALVE SCHEDULE					
DISPENSING FACILITY					
TAG	TYPE	SIZE	PRODUCT		
D1	BALL VALVE	1-1/2"	GASOLINE		
D2	BALL VALVE	1-1/2"	DIESEL		



BULK BAY 었 F

LEGEND, ABBREVIATIONS, AND SCHEDULES

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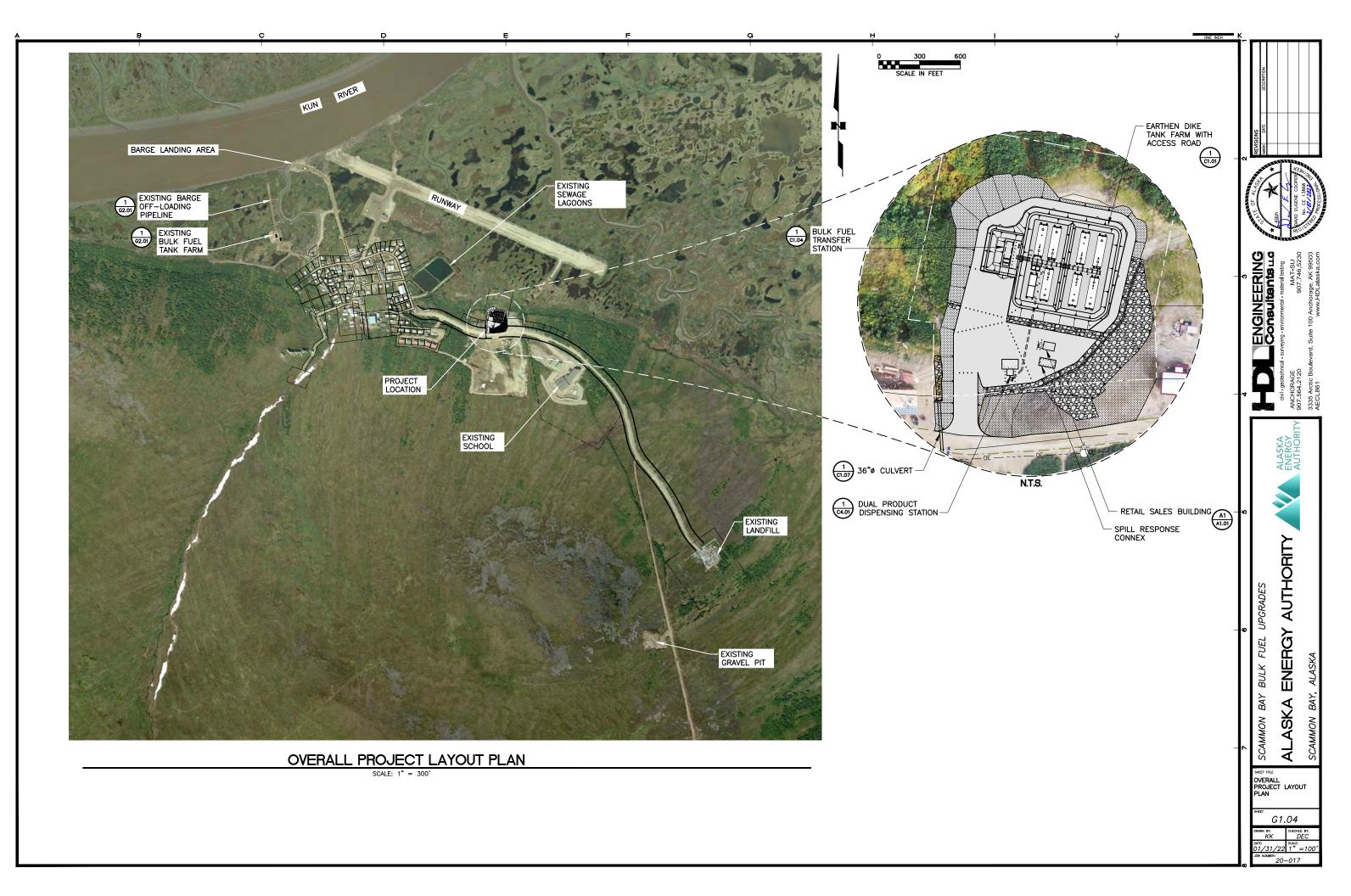
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CODE ANALYSIS

THE CONSOLIDATED TANK FARM WILL PERFORM THREE FUNCTIONS — BULK STORAGE, BULK TRANSFER, AND DISPENSING. ALL TANKS ARE INSTALLED ABOVE GROUND. TO COMPLY WITH THE REQUIREMENTS OF THE 2012 INTERNATIONAL FIRE CODE (IFC), THE 2015 FLAMMABLE AND COMBUSTIBLE LIQUIDS CODE (NFPA 30), AND THE ALASKA ADMINISTRATIVE CODE (AAC) THE FOLLOWING MINIMUM CLEARANCES ARE REQUIRED:

CODE REFERENCE	SETBACK REQUIREMENT	CRITERIA
IFC	25'	FROM BULK STORAGE TANKS TO ALL COMBUSTIBLE MATERIALS.
NFPA 30 TABLE 22.4.2.1	3'	FROM TANK TO TANK OR 1/6 SUM OF ADJACENT TANK DIAMETERS.
13 AAC 50.025 (66)	5'	FROM TANKS TO FENCE.
NFPA 30 TABLE 22.4.1.1(a)(b)	40'	FROM LOT LINE WHICH IS OR CAN BE BUILT UPON, INCLUDING THE OPPOSITE SIDE OF A PUBLIC WAY (30,001 TO 50,000 GAL.)
NFPA 30 TABLE 22.4.1.1(a)(b)	10'	FROM NEAREST SIDE OF ANY PUBLIC WAY OR FROM NEAREST IMPORTANT BUILDING ON THE SAME PROPERTY (12,001 TO 30,000 GAL.)
NFPA 30 TABLE 22.11.2.5	5'	FROM INTERIOR DIKE WALL TO TANK

UNPROTECTED DISPENSING TANK REQUIREMENTS

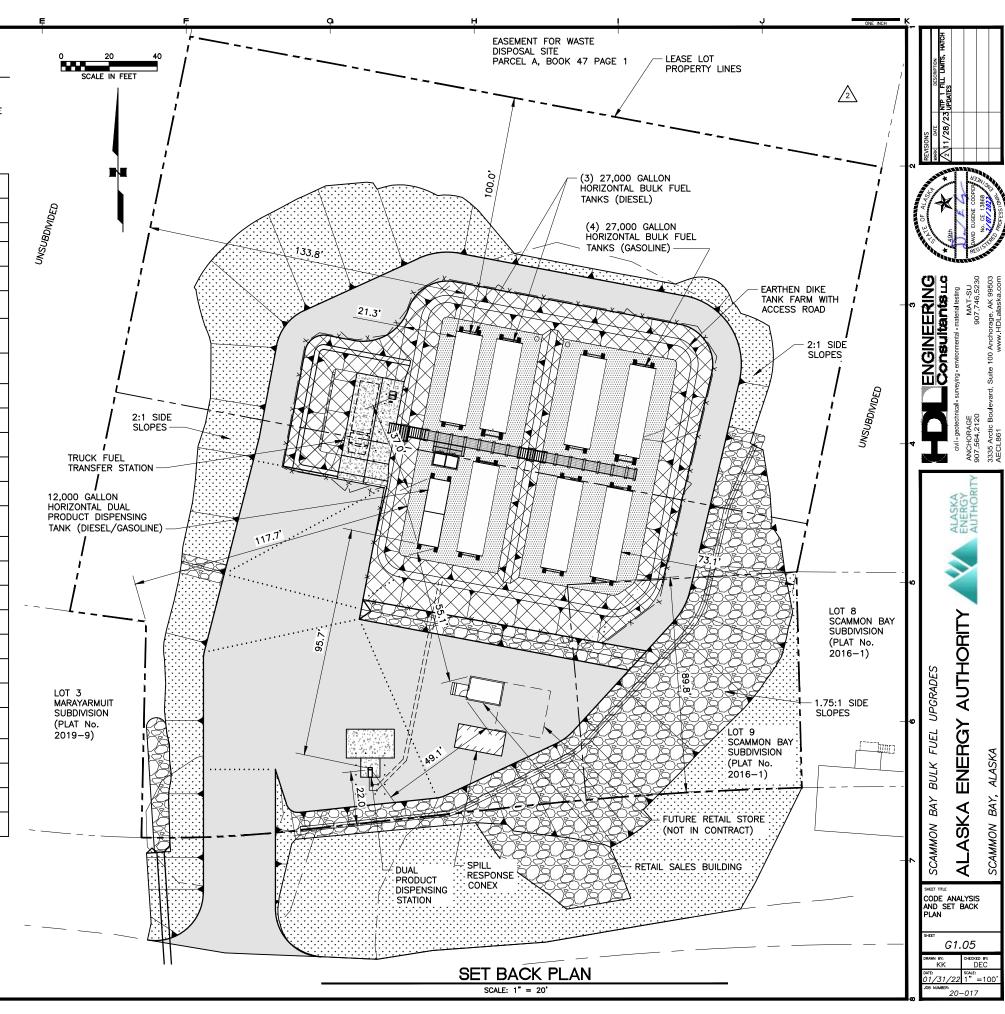
CODE REFERENCE	SETBACK REQUIREMENT	CRITERIA
IFC TABLE 2306.2.3	50'	FROM DISPENSERS TO ALL UNPROTECTED DISPENSING TANKS.
IFC TABLE 2306.2.3	50'	FROM NEAREST IMPORTANT BUILDING ON SAME PROPERTY TO ALL UNPROTECTED DISPENSING TANKS.
IFC TABLE 2306.2.3	100'	FROM LOT LINE THAT IS OR CAN BE BUILT UPON, INCLUDING THE OPPOSITE SIDE OF A PUBLIC WAY TO ALL UNPROTECTED DISPENSING TANKS.
IFC TABLE 2306.2.3	50'	FROM NEAREST SIDE OF A PUBLIC WAY TO ALL UNPROTECTED DISPENSING TANKS.

DISPENSER REQUIREMENTS

CODE REFERENCE	SETBACK REQUIREMENT	CRITERIA
IFC 2303.1	5'	FROM BUILDING OPENINGS WHEN HOSE IS FULLY EXTENDED.
IFC 2303.1	10'	FROM LOT LINES AND BUILDINGS.
IFC 2303.1	20'	FROM FIXED SOURCES OF IGNITION.
NFPA 30 28.4.1	15'	FROM BULK LOADING FACILITIES TO ABOVEGROUND TANKS, WAREHOUSES, OTHER PLANT BUILDINGS, OR LOT LINES FOR CLASS II LIQUIDS.

CLEARANCE FROM CLASS A PUBLIC WELL

CODE REFERENCE	SETBACK REQUIREMENT	CRITERIA
18 AAC 80.020 TABLE A	100'	FROM FUEL TANKS AND PIPELINES TO PUBLIC WATER WELLS.



SIGNAGE NOTES:

- 1. INSTALLATION ATTACH TO FENCING WITH HOG RINGS OR STAINLESS STEEL CABLE TIES. ATTACH TO STRUCTURES WITH LAGS OR BOLTS.
- 2. WARNING SIGNS & INFORMATIONAL PLACARDS PROVIDE ALL SIGNS INDICATED IN THE SCHEDULE BELOW, QUANTITY & LOCATION AS INDICATED ON DRAWINGS. ALL SIGNS SHALL BE 0.08" ALUMINUM PLATE,10"x14" UNLESS INDICATED OTHERWISE OR REQUIRED TO BE LARGER FOR SPECIFIED LETTER SIZE. PROVIDE 3/16" HOLES IN ALL FOUR CORNERS. WHITE NON-REFLECTIVE VINYL BACKGROUND, 3M 3650-10, WITH 3M SERIES 225 HIGH PERFORMANCE VINYL LETTERS, ONE SIDE ONLY. WARNING LITES OR EQUAL.
- 3. INSTALL 5 PORTABLE FIRE EXTINGUISHERS (TYPE 4 40BC), INCLUDING TWO IN THE FENCED AREA, ONE AT THE DISPENSER AND TWO SPARES TO BE STORED WITH SPILL RESPONSE EQUIPMENT. EXTINGUISHERS MOUNTED OUTSIDE SHALL BE WITHIN APPROVED WEATHER PROOF ENCLOSURE WITH HINGED DOORS.
- 4. SEE ELECTRICAL SHEETS FOR LOCATIONS OF EMERGENCY STOPS AND INSTALL SIGNS AT THOSE LOCATION.

SIGNAGE:

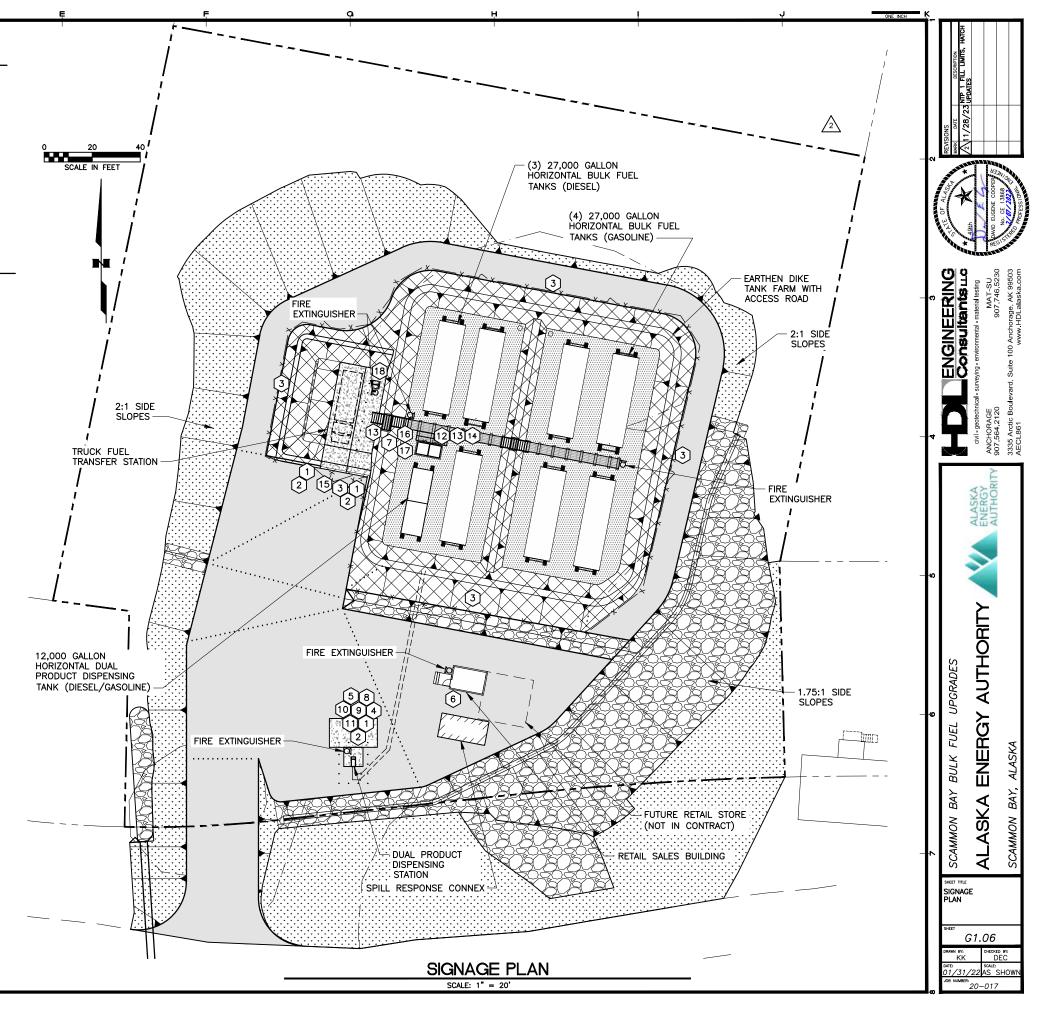
WARNING SIGNS - RED ON NON-REFLECTIVE WHITE BACKGROUND.

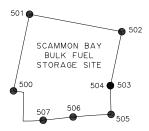
- "DANGER FLAMMABLE, NO SMOKING" (3" HIGH 1/2" STROKE LETTERS-24"x18")
- (2) "IN CASE OF SPILL CALL DEC 1-800-478-9300"
- "DANGEROUS CARGO, NO VISITORS, NO SMOKING, NO OPEN LIGHTS" (3" HIGH 1/2" STROKE LETTERS 36"x24")

INFORMATIONAL PLACARDS - BLACK ON NON-REFLECTIVE WHITE BACKGROUND.

- [4] "DISPENSING INTO UNAPPROVED CONTAINERS PROHIBITED"
- 5 "STOP YOUR MOTOR"
- (6) "EMERGENCY FUEL SHUT OFF"
- 7) "IN CASE OF FIRE OR SPILL TURN OFF MAIN BREAKER"
- 8 "DISCHARGE YOUR STATIC ELECTRICITY BEFORE FUELING BY TOUCHING A METAL SURFACE AWAY FROM THE NOZZLE"
- "TO PREVENT A STATIC CHARGE DO NOT RE-ENTER YOUR VEHICLE WHILE GASOLINE IS PUMPING"
- (10) "NO FILLING OF PORTABLE CONTAINERS IN OR ON A MOTOR VEHICLE. PLACE CONTAINER ON GROUND BEFORE FILLING"
- "IF FIRE STARTS, DO NOT REMOVE NOZZLE BACK AWAY
- "CLOSE & LOCK BULK TANK MAIN VALVES AFTER EACH TRANSFER"
- 13 "TURN OFF MAIN POWER EACH NIGHT"
- "PRIOR TO FILLING BULK TANKS CEASE TRANSFER OPERATIONS"
- (15) "CHOCK WHEELS, ATTACH STATIC WIRE, & VERIFY TANK CAPACITY PRIOR TO BULK TRANSFER"
- [16] "DISPENSING NOT PERMITTED WHILE DISPENSING TANK BEING FILLED"
- (17) "CHECK GASOLINE DISPENSING TANK LEVEL DAILY, FILL WHEN BELOW 3'-0":

 1) VERIFY BULK TANK LEVEL DO NOT TRANSFER IF BELOW 1'-0"
 - 2) OPEN VALVE AT TANK
 - 3) PRESS START BUTTON
 - 4) MONITOR TANK LEVELS CONTINUOUSLY
 - 5) WHEN DISPENSING TANK LEVEL REACHES 90% PRESS STOP BUTTON
 - 6) CLOSE & LOCK VALVE"
- "MAXIMUM PRESSURE" = 75 PSI DO NOT OPERATE PIPELINES WITH PRESSURES IN EXCESS OF MAXIMUM





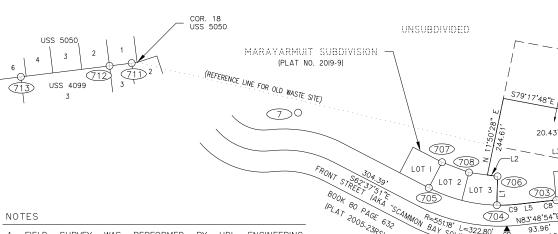
DETAIL LEASE PARCEL CORNERS TO BE SET

LEASE PAR	CEL CORNERS	TO BE SET
POINT	NORTHING	EASTING
500	60202.6553	39601.0183
501	60442.0616	39651.2117
502	60387.6036	39939.3280
503	60219.0710	39903.9938
504	60219.0725	39903.7340
505	60129.0966	39906.0171
506	60121.1596	39787.0813
507	60111.0367	39693.6724

	LINE TABL	E
LINE	DIRECTION	LENGTH
L1	N01°17'32"E	89.99
L2	N82*11'34"W	32.15
L3	N89*39'58"W	0.26'
L4	S01°27'10"E	90.00'
L5	N83°48'54"E	93.96

	CURVE TABLE					
CURVE	RADIUS	LENGTH	DELTA	CHORD	CHORD BEARING	
C7	1443.57	90.01	3°34'22"	90.00'	S 86°45'40" W	
C8	1443.57	29.22'	1*09'35"	29.22'	S 84°23'41" W	
C9	485.56	62.93'	7°25'34"	62.89'	S 87°31'41" W	

UNSUBDIVIDED



- 1. FIELD SURVEY WAS PERFORMED BY HDL ENGINEERING CONSULTANTS, LLC FROM SEPTEMBER 10 THROUGH SEPTEMBER 13, 2020. FIELD SURVEY INFORMATION CAN BE FOUND IN FIELD BOOK 20-017-04, SCAMMON BAY BFU, PAGES 2 THROUGH 22.
- 2. A TITLE REPORT WAS NOT PERFORMED. EASEMENTS OF RECORD, OTHER THAN THOSE SHOWN ON THE PLATS OF RECORD, ARE NOT SHOWN HEREON.
- 3. ALL MEASUREMENTS ARE IN U.S. SURVEY FEET UNLESS

HORIZONTAL CONTROL STATEMENT

BASIS OF COORDINATES:
HORIZONTAL CONTROL FOR THIS SURVEY IS LOCATED ENTIRELY WITHIN A LOCAL GRID COORDINATE SYSTEM WITH THE BASIS OF COORDINATES AT CONTROL POINT No. 1, A SET 5/8"X30" REBAR WITH A 2" ALUMINUM CAP LOCATED ON THE SOUTH SIDE OF THE ACCESS ROAD . SAID CONTROL POINT HAS LOCAL GRID COORDINATES OF 60,000.0000 NORTH, 40,000.0000 EAST.

BASIS OF BEARINGS:

THE BASIS OF BEARINGS IS NAD 83(2011) EPOCH 2010.00 ALASKA STATE PLANE ZONE 8 GRID FROM GPS OBSERVATIONS.

TO CONVERT THE LOCAL COORDINATES TO NAD 83(2011) EPOCH 2010.00 ALASKA STATE PLANE ZONE 8 U.S. SURVEY FOOT COORDINATES, TRANSLATE USING +2,805,132.1661 NORTH, +1,674,797.2343 EAST AND SCALE USING 0.99990159.

VERTICAL CONTROL STATEMENT

VERTICAL CONTROL FOR THIS SURVEY IS BASED ON THE VERTICAL DATUM NAVD 88 (COMPUTED USING GEOID 12B). AN ELEVATION OF 72.57 US SURVEY FEET AT CONTROL POINT No. 1 WAS DERIVED THROUGH A GPS STATIC SURVEY WHICH WAS THEN SUBMITTED TO NGS' OPUS FOR PROCESSING. FROM CONTROL POINT No. 1, DIFFERENTIAL LEVELING LOOPS WERE RUN TO ESTABLISH ELEVATIONS ON OTHER CONTROL POINTS AND TEMPORARY BENCH MARKS FOR USE IN DATA COLLECTION AND TO AID IN FUTURE CONSTRUCTION.

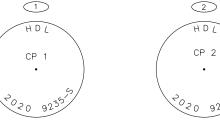
5/9·17·48″E 293.22,			
/≥	✓ SCAMMON BAY	2014 SUBDIVISIO)N
20.43' 20.43' 20.43' 3) / (PLAT	NO. 2016-I)	
12/2/ CB			
708) 4 40		/	BAY 2010 SUBDIVISION (PLAT NO. 2013-18)
2 LOT 3 - 706 LOT 9 LOT 8 LOT	7	/	(EAT 110. E010 10)
1 1 00	LOTI		
(704)	702) R=1377.95' L=1240.74'	4/	
N83'48'94' L/D 2 N83'48'94' L/D 293.96' WASTE ACCESS ROAD' TEM	15/7.95' L=1240.74'	LOT 5	
CP	X IBM	LOT 6	
	602		
			,
			Se di
		85.6	`\\\
THICHDONANTO			709
UNSUBDIVIDED			
			`
		S44*35'41"E	
		226.56	`
1	2		3

NEW LEASE LOT TO BE RECORDED FOR SCAMMON BAY BULK FUEL STORAGE. - ONCE LEASE LOT HAS BEEN RECORDED, CONTRACTOR'S PLS TO SET EXTERIOR

EASEMENT FOR WASTE

DISPOSAL SITE PARCEL A BOOK 47 PAGE I

LOT CORNER MONUMENTS



SET 2' ALUMINUM CAP ON 5/8"X30" REBAR 0.2' BELOW GROUND

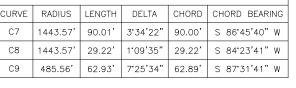
SET 2' ALUMINUM CAP ON 5/8"X30" REBAR 0.4' BELOW GROUND

SET 2' ALUMINUM CAP ON 5/8"X30" REBAR 0.2' BELOW GROUND

HDI

CP 3

	VERTICAL CONTROL							
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION				
601	60050	39986	67.93	SET SPIKE IN TELEPHONE POLE				
602	59988	40297	85.59	TOP OF EAST BOLT LIGHT POLE				



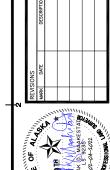


LEGEND

- O FOUND PROPERTY CORNER
- CONTROL POINT
- TEMPORARY BENCH MARK
- ## SURVEY POINT NUMBER
- LEASE CORNER TO BE SET, 2" ALUMINUM CAP ON 5/8"X30' REBAR

	RECOVERED MONUMENTATION						
POINT	NORTHING	EASTING	DESCRIPTION				
7	60397.3662	39009.6930	FOUND 2" ALUMINUM CAP				
701	60211.9900	40094.7372	FOUND 2" ALUMINUM CAP				
702	60122.4296	40085.7613	FOUND 2" ALUMINUM CAP				
703	60123.6567	39816.2780	FOUND 5/8' REBAR				
704	60108.3241	39630.8409	FOUND 2" ALUMINUM CAP				
705	60162.5384	39418.1812	FOUND 2" ALUMINUM CAP				
706	60198.2881	39632.8703	FOUND 2" ALUMINUM CAP				
707	60242.4660	39459.5497	FOUND 2" ALUMINUM CAP				
708	60210.5286	39543.5948	FOUND 2" ALUMINUM CAP				
709	59653.2640	40924.0106	FOUND 2" ALUMINUM CAP				
710	59492.0458	41082.8120	FOUND 2" ALUMINUM CAP				
711	60552.1267	38489.7379	FOUND 2" ALUMINUM CAP				
712	60543.6188	38420.3716	FOUND 2" ALUMINUM CAP				
713	60509.3180	38143.2474	FOUND COPPERWELD				

HORIZONTAL CONTROL						
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION		
1	60000.0000	40000.0000	72.57	SET 2" ALUMINUM CAP		
2	60032.6141	39662.1741	43.39	SET 2" ALUMINUM CAP		
3	60296.0473	40005.3915	28.07	SET 2" ALUMINUM CAP		



ENGINEERING Consultantsuc

ANCI 907.5 3335 AECL

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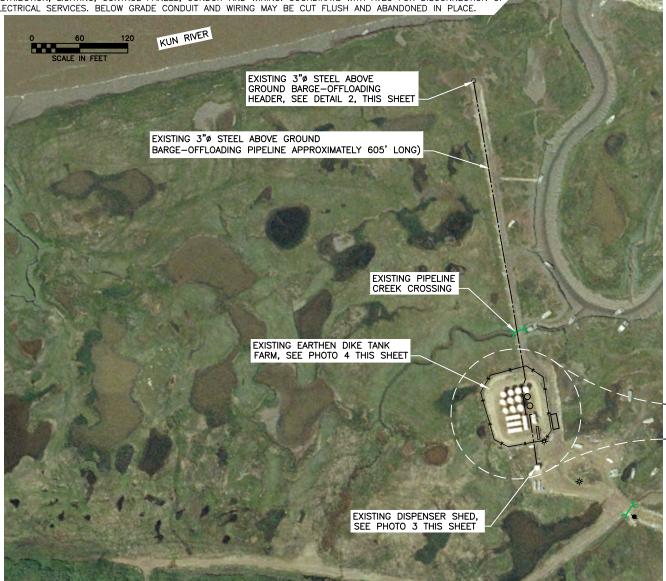
SURVEY CONTROL DRAWING

G1.07

inte: SCALE: 1'=150

SCOPE OF WORK

- VISUALLY INSPECT ALL ABOVEGROUND TANKS DESIGNATED ON THE CONTRACT DRAWINGS FOR DECOMMISSIONING, DETERMINE IF PRODUCT EXISTS WITHIN EACH TANK. IF PRODUCT EXISTS, PUMP, FILTER, AND TRANSFER ALL USEABLE PRODUCT TO THE NEW TANK(S) BEING CONSTRUCTED TO REPLACE THE EXISTING TANKS.
- CLEAN THE INTERIOR OF EACH TANK IN ACCORDANCE TO API 2015 OR OTHER APPROVED METHOD.
- IMPLEMENT A CONFINED SPACE ENTRY PERMIT SYSTEM BEFORE ANY WORKER ENTERS EACH TANK. MONITOR THE TANK ATMOSPHERE FOR TOXICITY, OXYGEN LEVELS, AND EXPLOSIVE VAPORS.
- ALL TANKS SHALL BE RENDERED UNUSABLE BY THE CONTRACTOR AT THE TIME OF DECOMMISSIONING. REMOVE NOZZLES AND VENTS. DISMANTLE AND DISPOSE OF EXISTING TANKS IN ACCORDANCE WITH THE AWARDED BID SCHEDULE AND ADDITIVE ALTERNATIVE.
- CONSOLIDATE AND STORE ALL DECOMMISSIONED TANK MATERIAL IN NEAT AND ORGANIZED STACKS WITHIN THE OLD TANK FARM FUEL CONTAINMENT AREA, OR REMOVE AND DISPOSE OF DECOMMISSIONED MATERIAL IN ACCORDANCE WITH THE AWARDED BID SCHEDULE AND ADDITIVE ALTERNATIVE.
- PURGE ALL REMAINING FUEL AND RESIDUAL LIQUID FROM THE EXISTING LINES. DECOMMISSION THE PIPELINES AS SPECIFIED IN THE CONTRACT DOCUMENTS AND CUT THE FUEL PIPING IN MAXIMUM OF 20-FOOT SECTIONS.
- STORE ALL DECOMMISSIONED PIPING IN NEAT AND ORGANIZED STACKS NEXT TO THE OLD TANK FARM FUEL CONTAINMENT AREA, OR REMOVE AND DISPOSE OF DECOMMISSIONED MATERIAL IN ACCORDANCE WITH THE AWARDED BID SCHEDULE AND ADDITIVE ALTERNATIVE.
- DECOMMISSION, REMOVE THE EXISTING VEHICLE DISPENSER AND STORE THE DISPENSER IN A LOCATION DESIGNATED BY THE ASKINUK CORPORATION, OR REMOVE AND DISPOSE OF DECOMMISSIONED MATERIAL IN ACCORDANCE WITH THE AWARDED BID SCHEDULE AND ADDITIVE ALTERNATIVE . THE CONTRACTOR SHALL DEMOLISH THE EXISTING FUEL DISPENSER SHED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.
- DECOMMISSION ALL ASSOCIATED ABOVE GRADE ELECTRICAL EQUIPMENT INCLUDING ELECTRICAL SERVICES, POWER DISTRIBUTION, LIGHTING, CONTROL PANELS, CONDUIT AND WIRING. COORDINATE WITH AVEC FOR DISCONNECTION OF ELECTRICAL SERVICES. BELOW GRADE CONDUIT AND WIRING MAY BE CUT FLUSH AND ABANDONED IN PLACE.







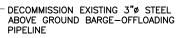
BARGE LANDING











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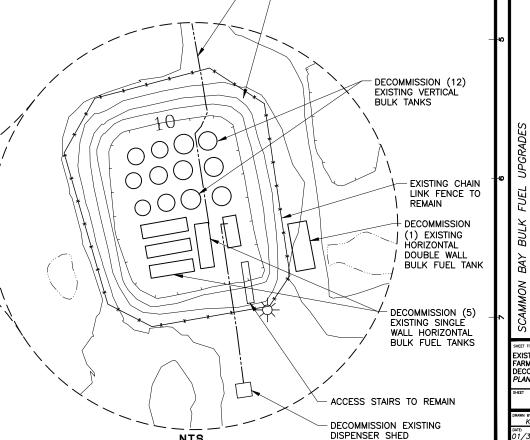
EXISTING TANK ECOMMISSIONING

G2.01 WN BY: CHECKED BY:

KK DEC

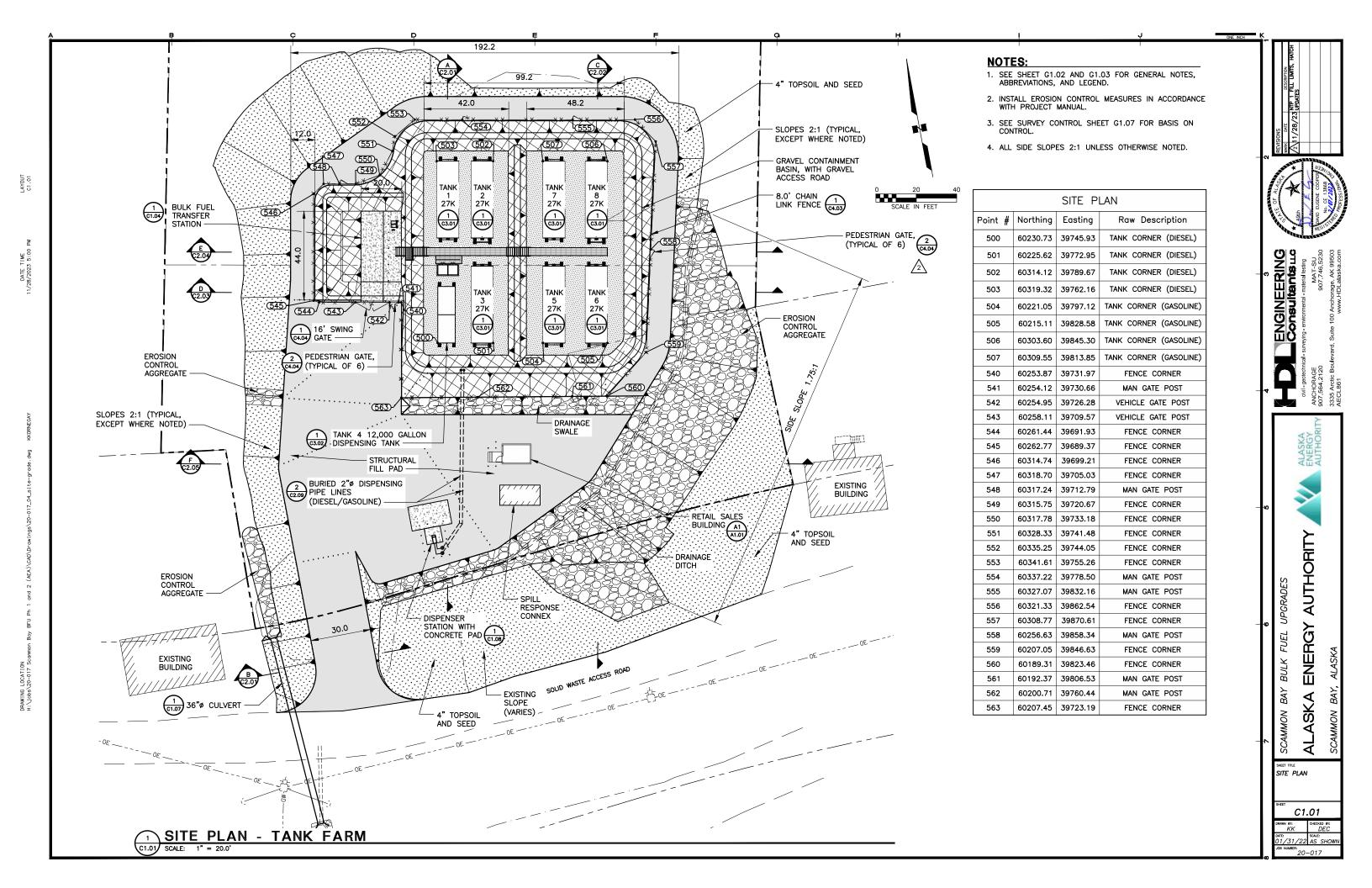
1/31/22 AS SHOW

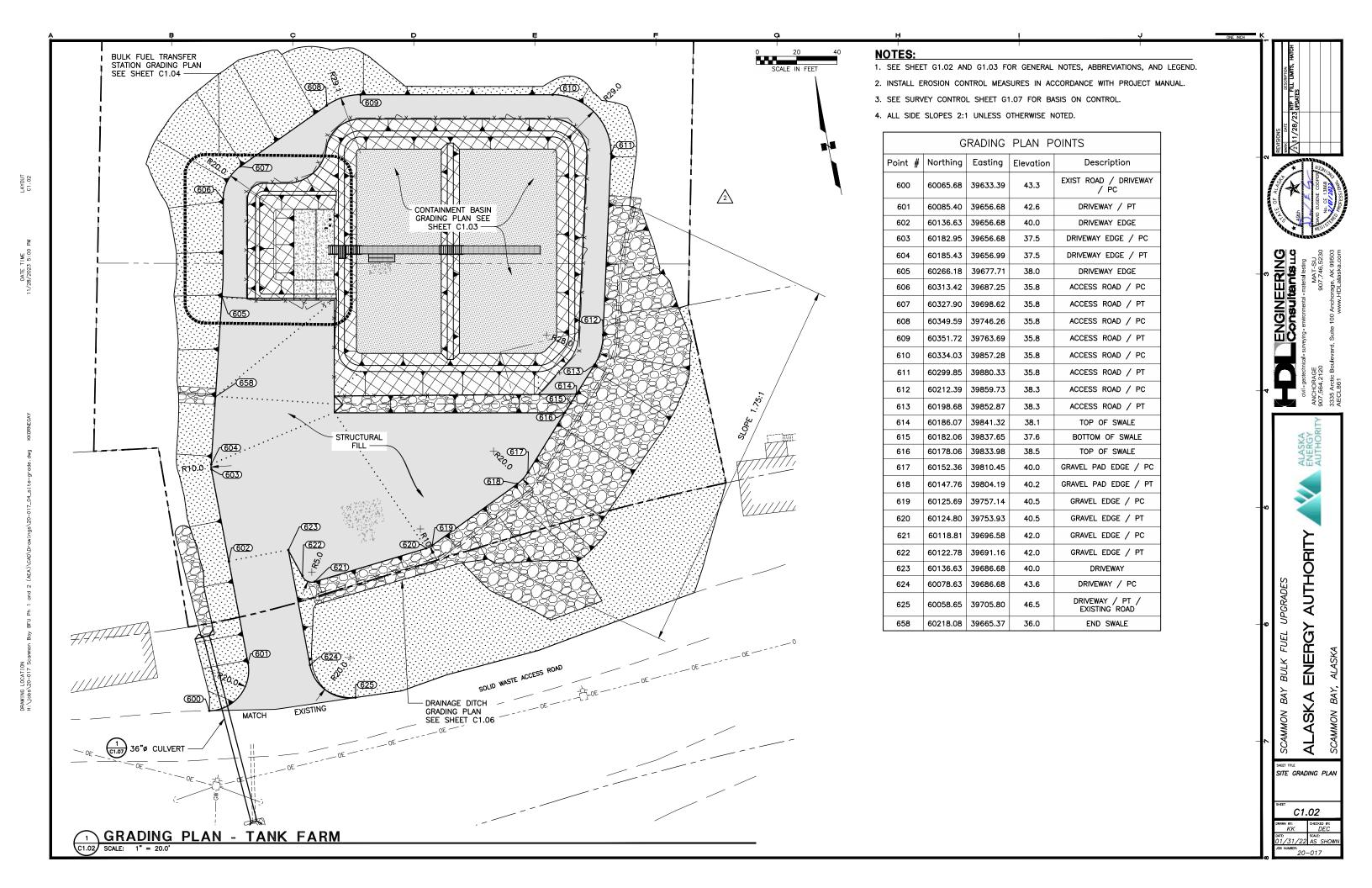
EXISTING EARTHEN DIKE TANK FARM TO REMAIN



N.T.S.

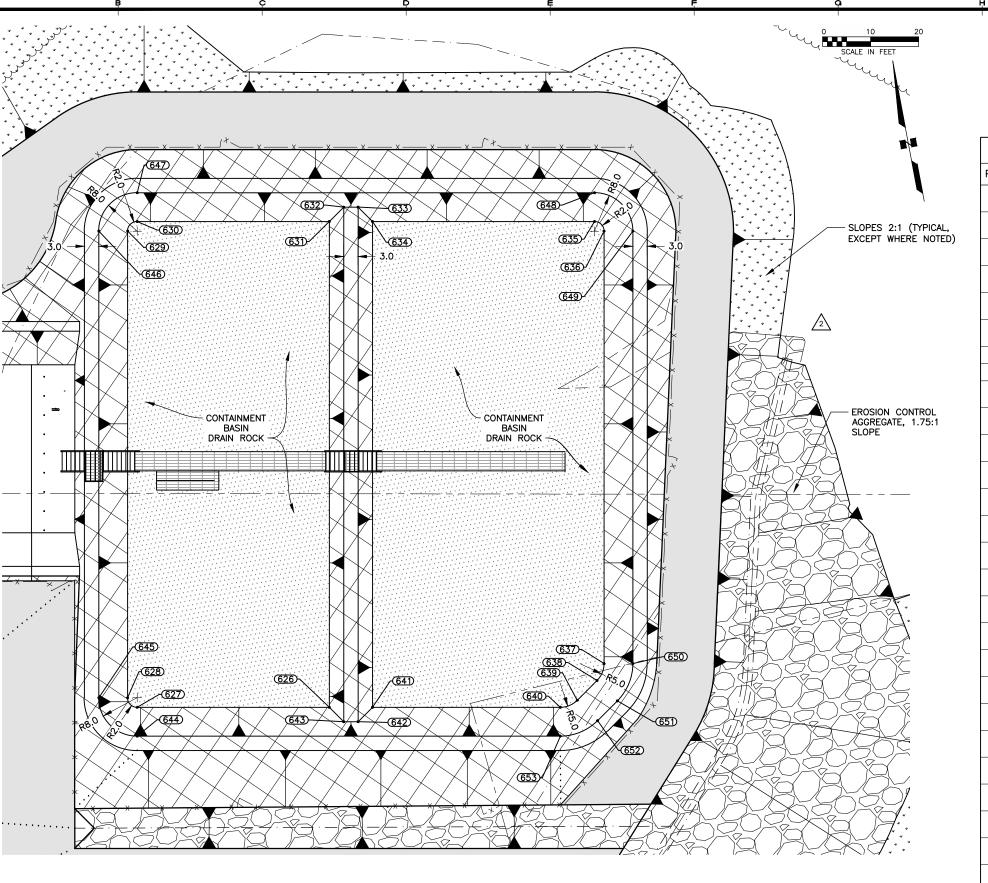






GRADING PLAN - CONTAINMENT BASIN

1 GRADING C1.03 SCALE: 1" = 10.0'



NOTES:

- 1. SEE SHEET G1.02 AND G1.03 FOR GENERAL NOTES, ABBREVIATIONS, AND LEGEND.
- 2. INSTALL EROSION CONTROL MEASURES IN ACCORDANCE WITH PROJECT MANUAL.
- 3. SEE SURVEY CONTROL SHEET G1.07 FOR BASIS ON CONTROL.
- 4. ALL SIDE SLOPES 2:1 UNLESS OTHERWISE NOTED.

		RADING	PLAN P	Olivia
Point #	Northing	Easting	Elevation	Description
626	60218.34	39779.19	36.5	BOTTOM OF CONTAINMENT DIKE
627	60225.77	39739.89	36.5	BOTTOM OF CONTAINMENT DIKE
628	60228.10	39738.29	36.5	BOTTOM OF CONTAINMENT DIKE
629	60323.60	39756.34	36.5	BOTTOM OF CONTAINMENT DIKE
630	60325.19	39758.68	36.5	BOTTOM OF CONTAINMENT DIKE
631	60317.76	39797.98	36.5	BOTTOM OF CONTAINMENT DIKE
632	60320.15	39801.49	38.0	TOP INTERMEDIATE DIKE
633	60319.59	39804.44	38.0	TOP INTERMEDIATE DIKE
634	60316.09	39806.83	36.5	BOTTOM OF CONTAINMENT DIKE
635	60307.50	39852.26	36.5	BOTTOM OF CONTAINMENT DIKE
636	60305.16	39853.86	36.5	BOTTOM OF CONTAINMENT DIKE
637	60216.66	39837.13	36.5	BOTTOM OF CONTAINMENT DIKE
638	60213.46	39835.03	36.5	BOTTOM OF CONTAINMENT DIKE
639	60210.18	39830.23	36.5	BOTTOM OF CONTAINMENT DIKE
640	60209.40	39826.48	36.5	BOTTOM OF CONTAINMENT DIKE
641	60216.67	39788.04	36.5	BOTTOM OF CONTAINMENT DIKE
642	60214.28	39784.53	38.0	TOP OF INTERMEDIATE DIKE
643	60214.83	39781.58	38.0	TOP OF INTERMEDIATE DIKE
644	60219.87	39738.77	39.5	TOP OF CONTAINMENT DIKE
645	60229.22	39732.40	39.5	TOP OF CONTAINMENT DIKE
646	60324.71	39750.45	39.5	TOP OF CONTAINMENT DIKE
647	60331.08	39759.79	39.5	TOP OF CONTAINMENT DIKE
648	60313.40	39853.38	39.5	TOP OF CONTAINMENT DIKE
649	60304.05	39859.75	39.5	TOP OF CONTAINMENT DIKE
650	60215.55	39843.02	39.5	TOP OF CONTAINMENT DIKE
651	60208.50	39838.41	39.5	TOP OF CONTAINMENT DIKE
652	60205.23	39833.61	39.5	TOP OF CONTAINMENT DIKE
653	60203.50	39825.37	39.5	TOP OF CONTAINMENT DIKE





AUTHORITY

ENERGY BULK BAY

ASKA

CONTAINMENT BASIN — GRADING PLAN

C1.03

(683)

1 (51.03)

(688)

DIKE DRAIN SUMP AND PIPE

PERFORATED DRAIN PIPE

(519)√

(526)

(524)~

1 SITE PLAN - BULK FUEL TRANSFER STATION
C1.04 SCALE: 1" = 5.0'

<u>(523</u>)

×<u>675</u>) 674

> **67**0 687)

∕671\√ (686)

× × × 545) (527)

685

6" CONCRETE PAD -

(518)

BULK FUEL TRANSFER STATION

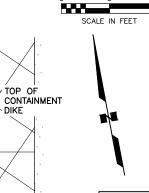
(520)

(521)_\

(522) (690)



- 1. SEE SHEET G1.02 AND G1.03 FOR GENERAL NOTES, ABBREVIATIONS, AND LEGEND.
- 2. SEE SHEET G1.03 FOR TANK, PUMP AND VALVE SCHEDULES.



DIKE

CONCRETE PAD 1

6"ø STEEL BOLLARDS (TYPICAL OF 9)

692

691)

689

<u>(681)</u>

`(676)~

(516)_{\(\)}

~695).[™]₄

	BULK FUEL TRANSFER STATION POINTS					
Point #	Northing	Easting	Elevation	Description		
515	60263.89	39733.86	38.5	CONCRETE PAD BULK FUEL TRANSFER		
516	60298.28	39740.36	38.5	CONCRETE PAD BULK FUEL TRANSFER		
517	60299.96	39731.52	38.3	CONCRETE PAD BULK FUEL TRANSFER		
518	60302.00	39720.72	38.0	CONCRETE PAD BULK FUEL TRANSFER		
519	60267.61	39714.21	38.0	CONCRETE PAD BULK FUEL TRANSFER		
520	60265.56	39725.02	38.3	CONCRETE PAD BULK FUEL TRANSFER		
521	60258.69	39723.72	39.0	CONCRETE PAD BULK FUEL TRANSFER		
522	60256.72	39723.35	39.0	CONCRETE PAD BULK FUEL TRANSFER		
523	60257.78	39712.36	38.5	BOTTOM OF DIKE		
524	60258.77	39712.49	39.0	TOP OF DIKE/CONCRETE PAD		
526	60260.73	39712.91	39.0	TOP OF DIKE/CONCRETE PAD		
527	60261.32	39693.67	38.5	BOTTOM OF DIKE		
545	60263.04	39689.93	38.0	BOTTOM OF SLOPE/FENCE CORNER		
670	60301.78	39711.10	33.3	12" DIA DRAINAGE SUMP ID BOTTOM INV		
671	60271.19	39705.31	33.9	4" DIA DRAINAGE PIPE INV		
672	60263.52	39698.16	39.0	TOP OF DIKE		
673	60265.86	39696.57	39.0	TOP OF DIKE		
674	60310.07	39704.94	39.0	TOP OF DIKE		

39.0

	BULK F	TUEL TRA	NSFER S	TATION POINTS
Point #	Northing	Easting	Elevation	Description
676	60304.98	39742.65	39.0	TOP OF DIKE
681	60306.94	39743.02	39.0	TOP OF DIKE
682	60313.63	39707.65	39.0	TOP OF DIKE
683	60310.44	39702.97	39.0	TOP OF DIKE
684	60262.30	39693.86	39.0	TOP OF DIKE
685	60269.10	39706.35	35.3	TOE OF DIKE
686	60271.43	39704.76	35.0	TOE OF DIKE
687	60301.94	39710.53	34.7	TOE OF DIKE
688	60303.49	39712.85	35.0	TOE OF DIKE
689	60254.07	39732.01	38.8	BOTTOM OF DIKE
690	60255.74	39723.17	38.6	BOTTOM OF DIKE
691	60254.86	39733.17	39.0	TOP OF DIKE/CONCRETE PAD
692	60256.83	39733.55	39.0	TOP OF DIKE/CONCRETE PAD
694	60265.59	39727.69		6" DIA BOLLARD
695	60297.04	39733.63		6" DIA BOLLARD

/				ı
RETE	515	60263.89	39733.86	
(1) (S1.03)	516	60298.28	39740.36	
	517	60299.96	39731.52	
-	518	60302.00	39720.72	Ī
	519	60267.61	39714.21	L
STEEL ACCESS	520	60265.56	39725.02	Ī
STAIRS 1	521	60258.69	39723.72	Ĺ
	522	60256.72	39723.35	Ī
<u> </u>	523	60257.78	39712.36	Ĺ
	524	60258.77	39712.49	
	526	60260.73	39712.91	l
-	527	60261.32	39693.67	Ī
	545	60263.04	39689.93	Ī
STEEL	670	60301.78	39711.10	Ī
LARDS PICAL OF 9) 3	671	60271.19	39705.31	
X (2.07)	672	60263.52	39698.16	-
	673	60265.86	39696.57	
	674	60310.07	39704.94	
	675	60311.66	39707.28	L

 $\sqrt{2}$

4" CEMENT STABILIZED FILL -4" CEMENT STABILIZED FILL -FABRICATE SUMP FROM ADS N-12 DUAL WALL SMOOTH I.D. PIPE FINISHED GRADE OF DIKE FLOOR DIKE MEMBRANE LINER AND WOVEN 4" GEOGRID GEOTEXTILES - 4" ADS 432 DEPRESS LINER END CAP BELOW SUMP -DEPRESS LINER BELOW PIPE AS REQUIRED AS REQUIRED 4" FABRIC WRAPPED 1/2" HDPE PLATE PERFORATED ADS 472 DRAIN PIPE, SEE PLANS FOR LENGTH BOTTOM FUSE WELDED TO SUMP 4" ADS 412 4" ADS 402 PIPE FUSE WELDED TO SUMP SECTION A-A

TOP OF DIKE

DRAINAGE SUMP - BULK FUEL TRANSFER STATION

ALASKA ENERGY AUTHOR

AUTHORITY

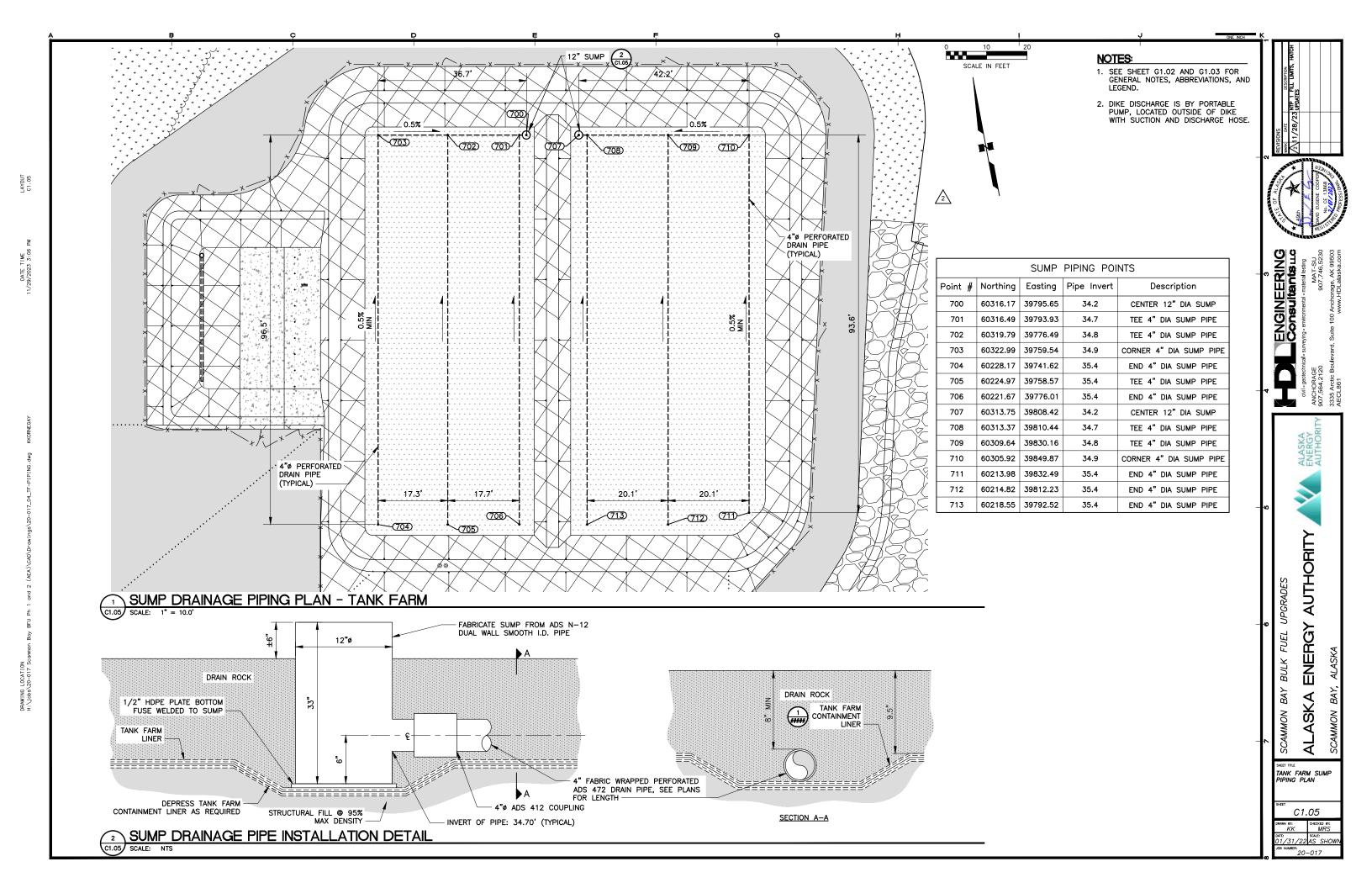
ENERGY BULK BAY ASKA

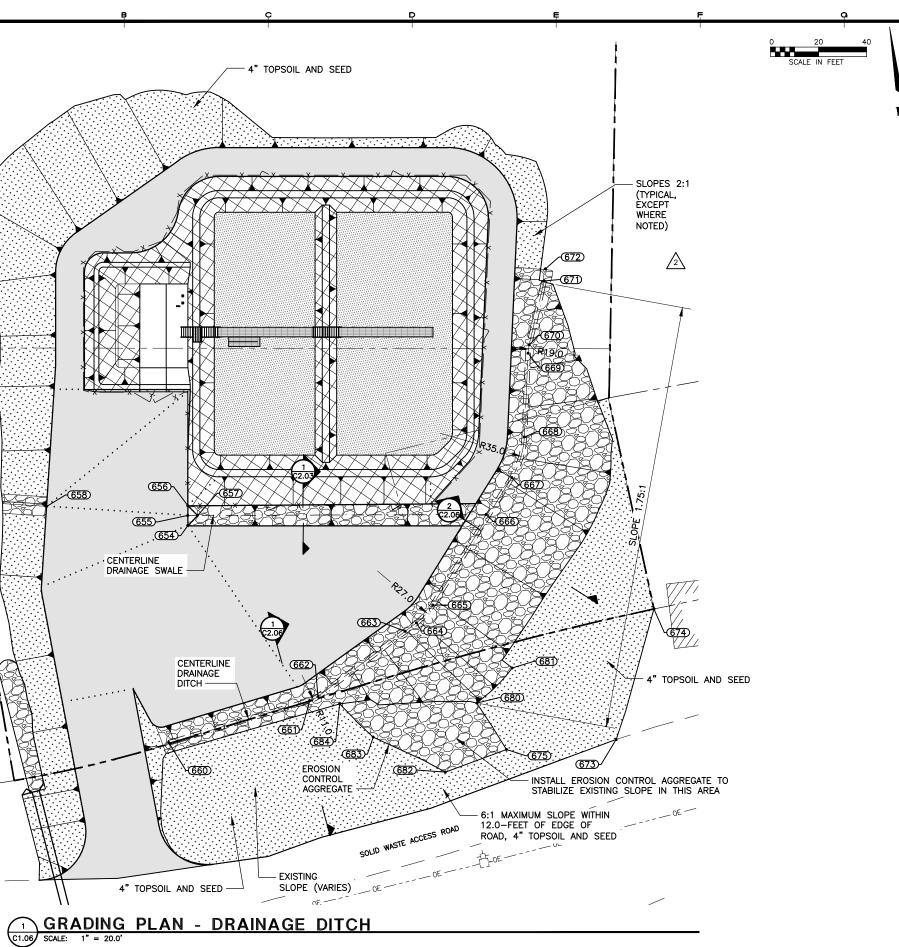
SCAMMON F BULK FUEL TRANSFER STATION SITE— GRADING PLAN

C1.04

DRAWN BY: CHECKED BY:

KK DEC nte: scale: 01/31/22 AS SHOW





NOTES:

- 1. SEE SHEET G1.02 AND G1.03 FOR GENERAL NOTES, ABBREVIATIONS, AND LEGEND.
- 2. INSTALL EROSION CONTROL MEASURES IN ACCORDANCE WITH PROJECT MANUAL.
- 3. SEE SURVEY CONTROL SHEET G1.07 FOR BASIS ON CONTROL.
- 4. ALL SIDE SLOPES 2:1 UNLESS OTHERWISE NOTED.

Point #	Northing	Easting	DITCH P	Description
TOTAL #	Horamig	Lusting	Lievation	· .
654	60199.29	39721.65	38.5	GRAVEL PAD / SWALE
655	60203.43	39722.44	38.5	BEGIN SWALE
656	60207.45	39723.19	38.5	GRAVEL PAD/SWALE
657	60202.69	39726.44	37.8	SWALE
658	60218.08	39665.37	36.0	END SWALE
660	60111.83	39697.13	37.8	BEGIN CENTERLINE DITCH
661	60118.19	39758.03	37.2	PC CENTERLINE DITCH
662	60119.25	39761.73	37.2	PC CENTERLINE DITCH
663	60139.19	39802.42	36.5	CONNECTION DITCH CENTERLINE
664	60141.80	39807.74	36.4	PC CENTERLINE DITCH
665	60147.81	39815.78	36.3	PT CENTERLINE DITCH
666	60180.77	39844.60	35.0	CENTERLINE DITCH
667	60193.93	39858.01	35.0	PC CENTERLINE DITCH
668	60209.55	39866.26	34.7	PT CENTERLINE DITCH
669	60243.59	39874.28	34.0	PC CENTERLINE DITCH
670	60246.92	39875.39	33.9	PT CENTERLINE DITCH
671	60271.94	39886.45	31.3	END CENTERLINE DITCH
672	60276.76	39887.92	31.0	END EROSION ROCK
673	60078.57	39880.46	58.7	TOPSOIL / ME
674	60129.10	39906.01	60.4	TOPSOIL / ME
675	60082.98	39834.75	56.1	GRADING EDGE / ME
680	60104.24	39826.27	56.8	GRADING EDGE / ME
681	60115.90	39843.41	56.8	GRADING EDGE / ME
682	60078.44	39808.05	52.8	GRADING EDGE / ME
683	60098.33	39781.19	46.0	GRADING EDGE / ME
684	60114.51	39770.03	40.2	GRADING EDGE / ME

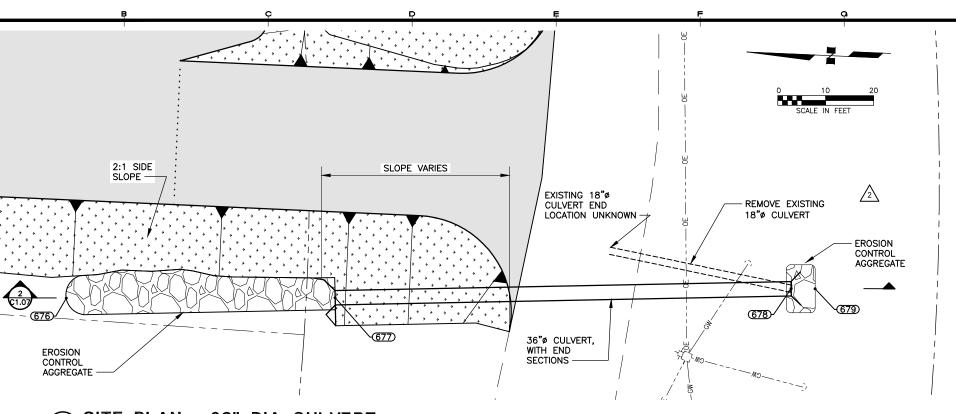


AUTHORITY

BULK BAY

DRAINAGE DITCH GRADING PLAN

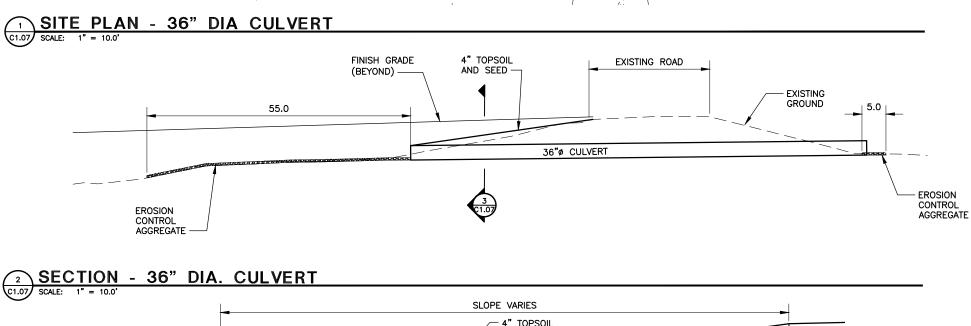
C1.06

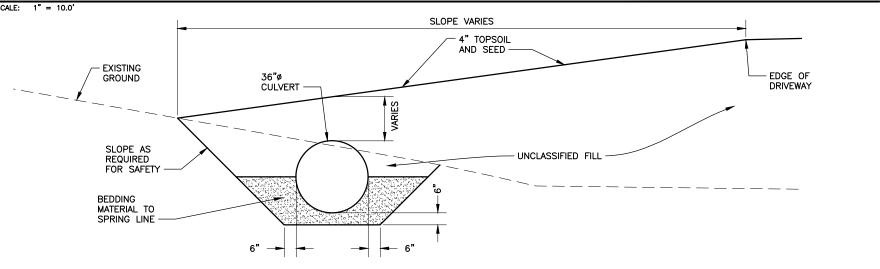


NOTES:

- SEE SHEET G1.02, AND G1.03 FOR GENERAL NOTES, ABBREVIATIONS, AND LEGEND.
- 2. INSTALL EROSION CONTROL MEASURES IN ACCORDANCE WITH PROJECT MANUAL.
- SEE SURVEY CONTROL SHEET G1.07 FOR BASIS ON CONTROL.
- 4. GRADE AREA TO PROVIDE POSITIVE DRAINAGE TO CULVERT, TOPSOIL AND SEED, INCIDENTAL TO CULVERT.
- 5. MAINTAIN TRAFFIC ON EXISTING ROAD IN ACCORDANCE WITH THE PROJECT MANUAL.

CULVERT POINTS				
Point #	Northing	Easting	Elevation	Description
676	60158.16	39636.22	31.4	EROSION CONTROL AGGREGATE/ME
677	60102.21	39638.83	35.2	END/INVERT 36" DIA CULVERT
678	60007.41	39644.94	36.2	BEGIN/INVERT 36" DIA CULVERT
679	60002.41	39645.17	36.2	EROSION CONTROL AGGREGATE/ME





3 SECTION - 36" DIA. CULVERT

SITE PLAN — 36 INCH DIA. CULVERT C1.07

AUTHORITY

ENERGY

SKA

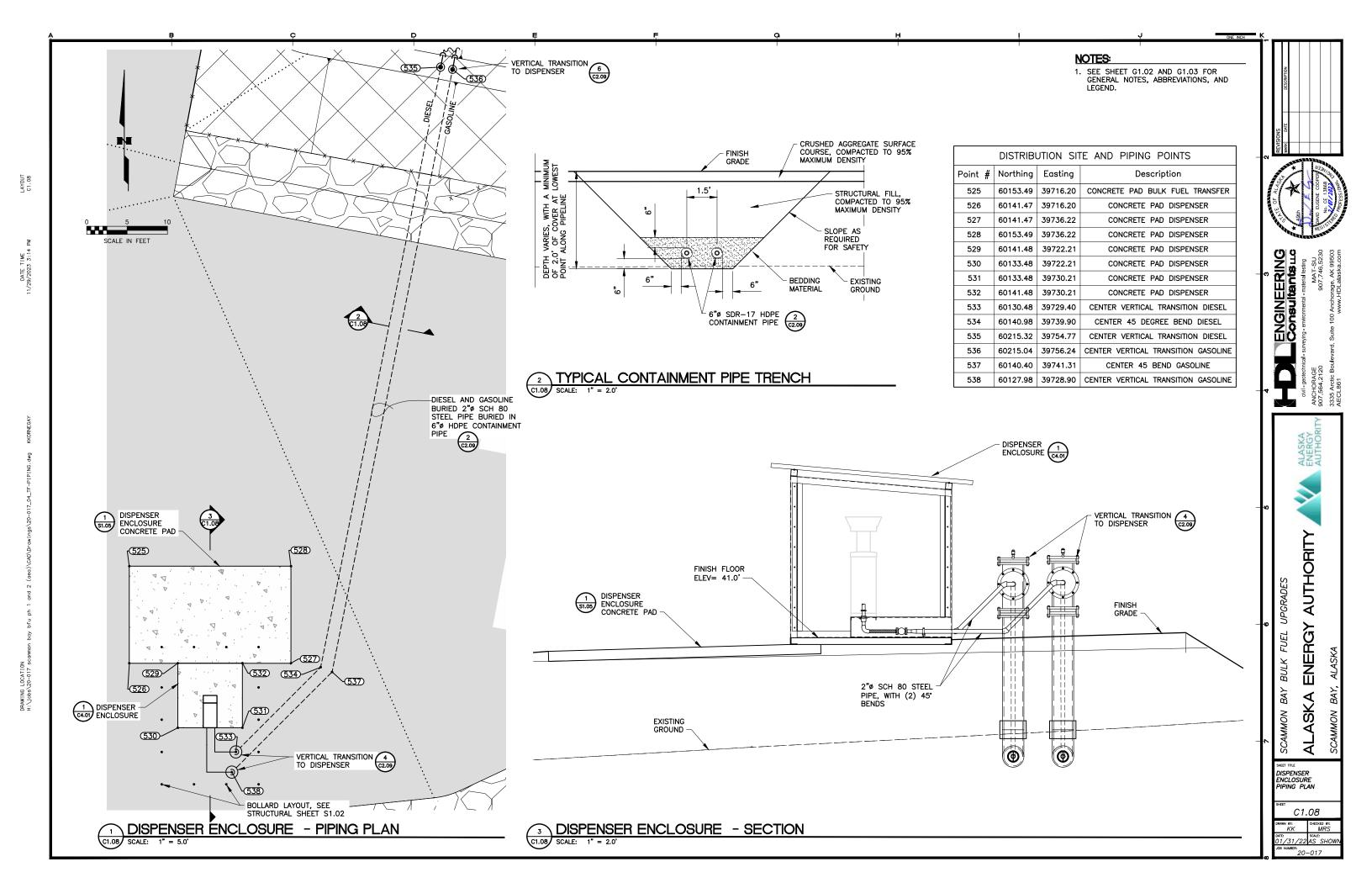
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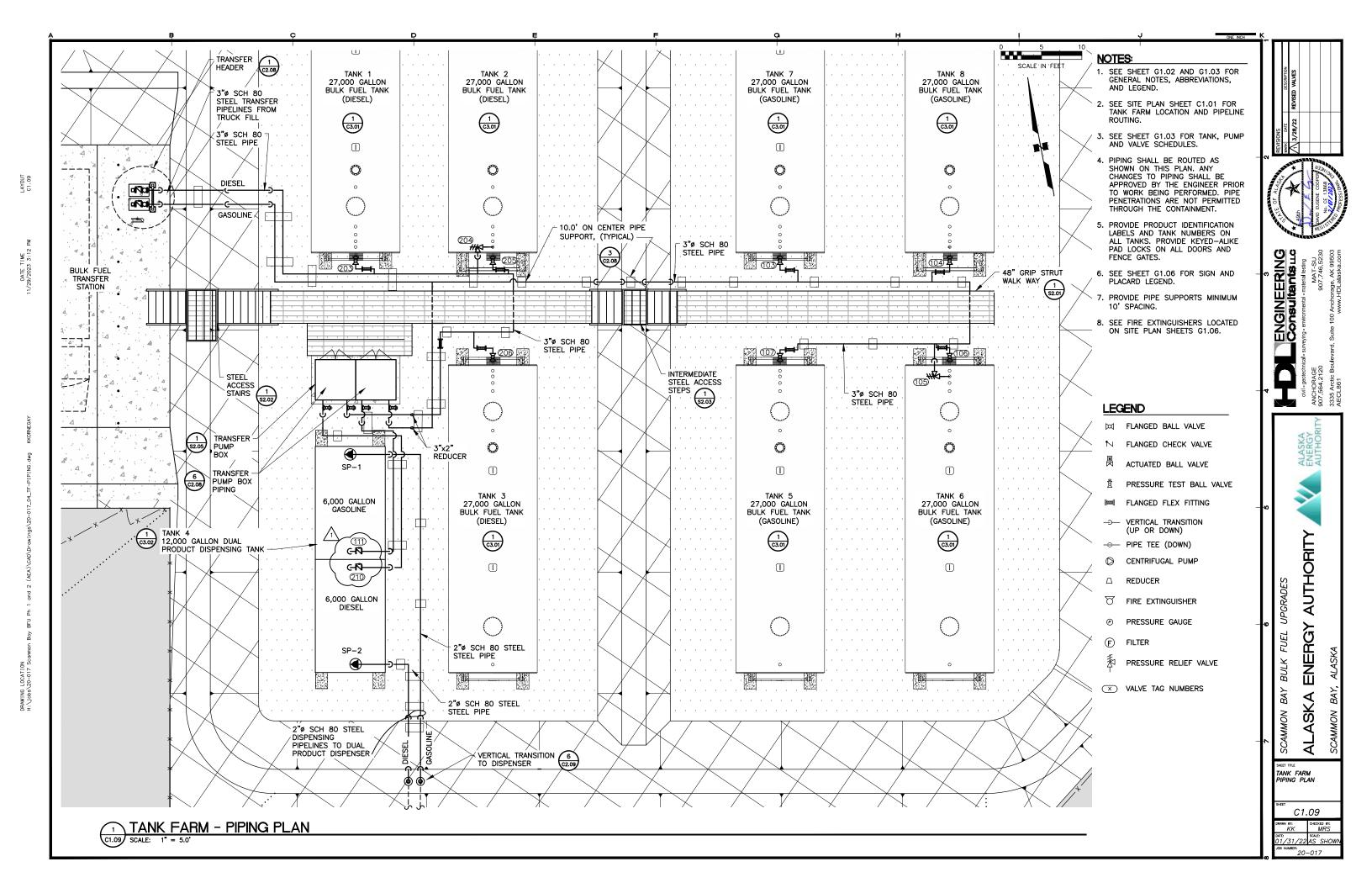
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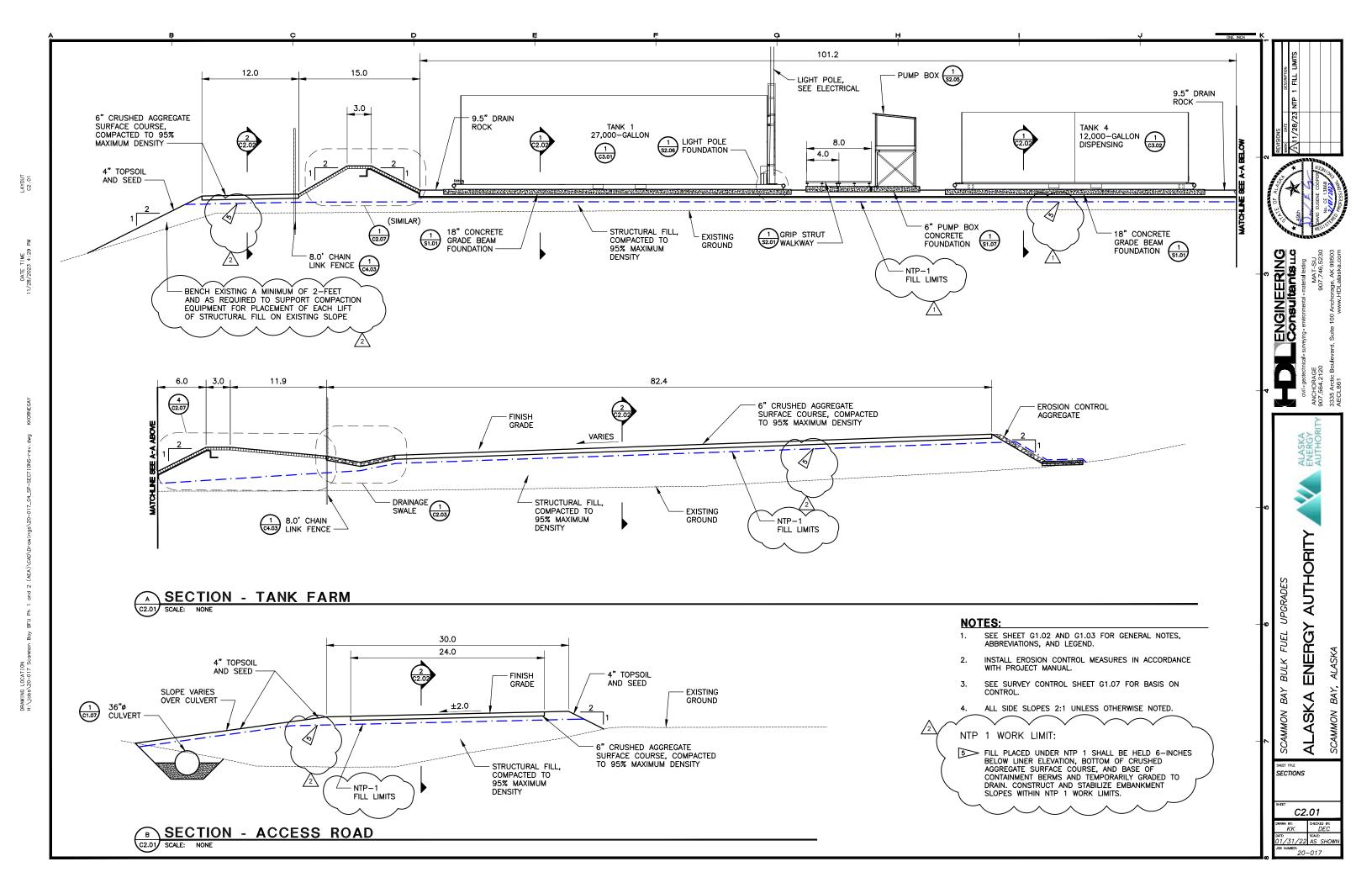
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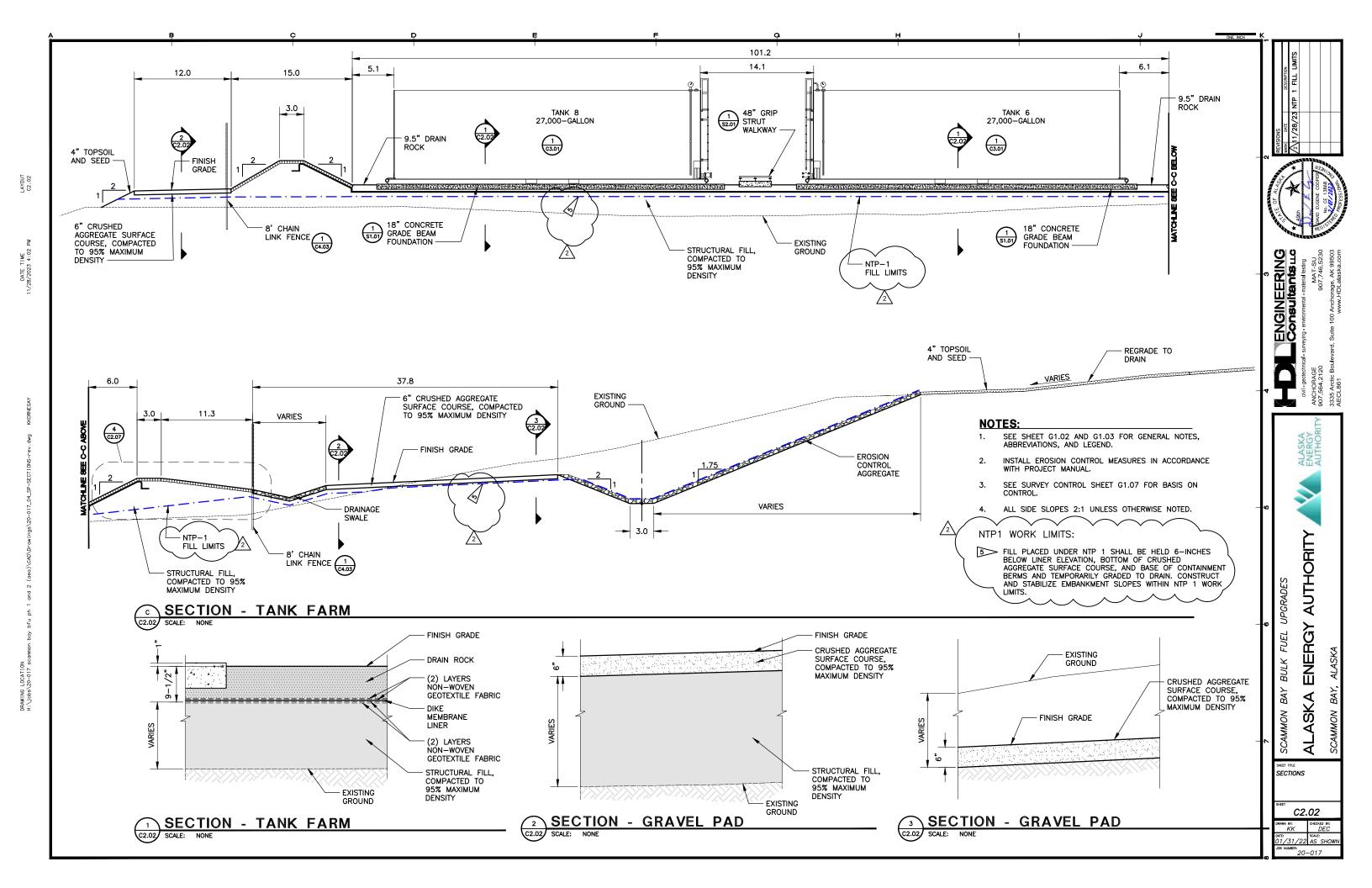
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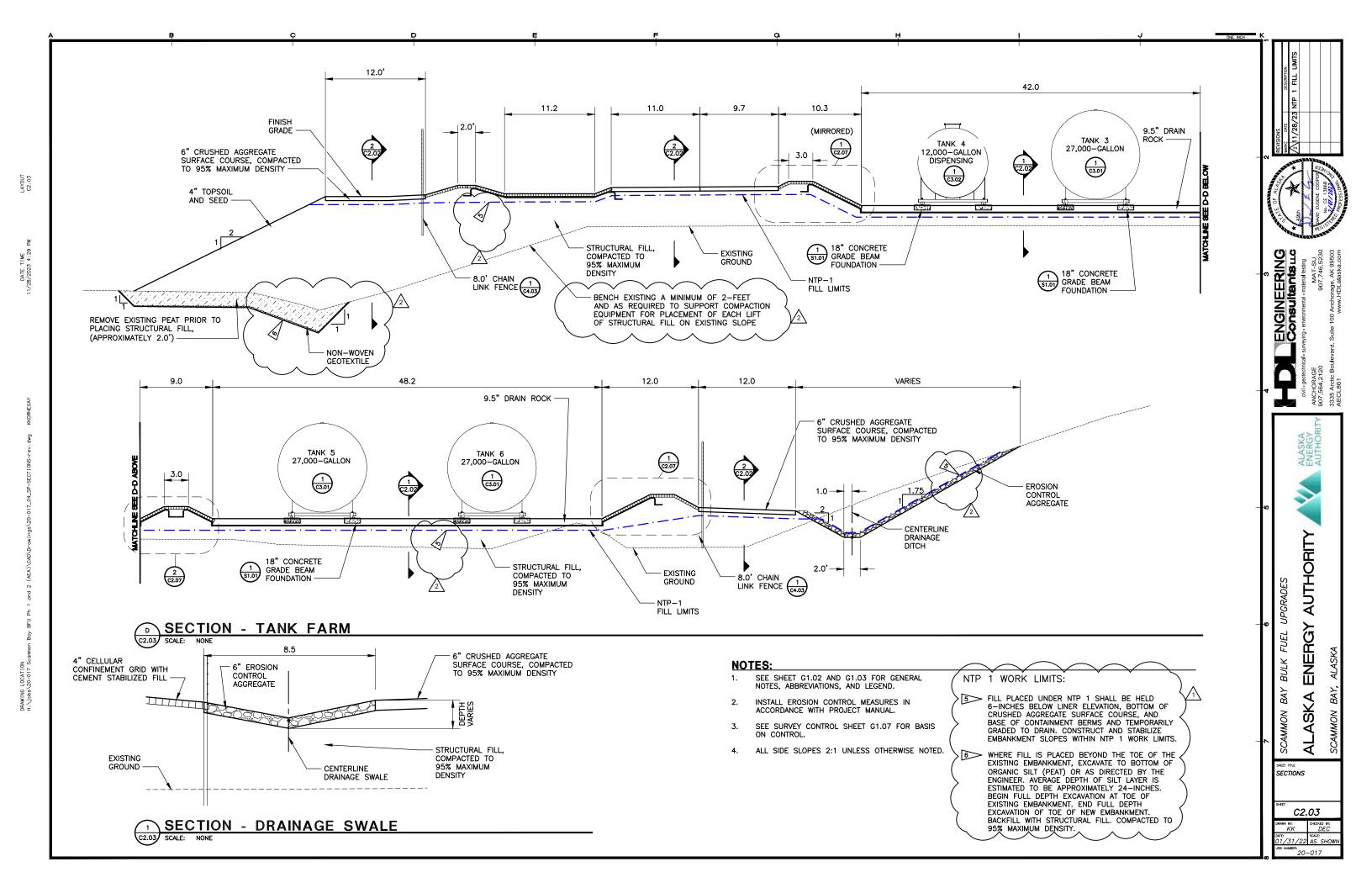
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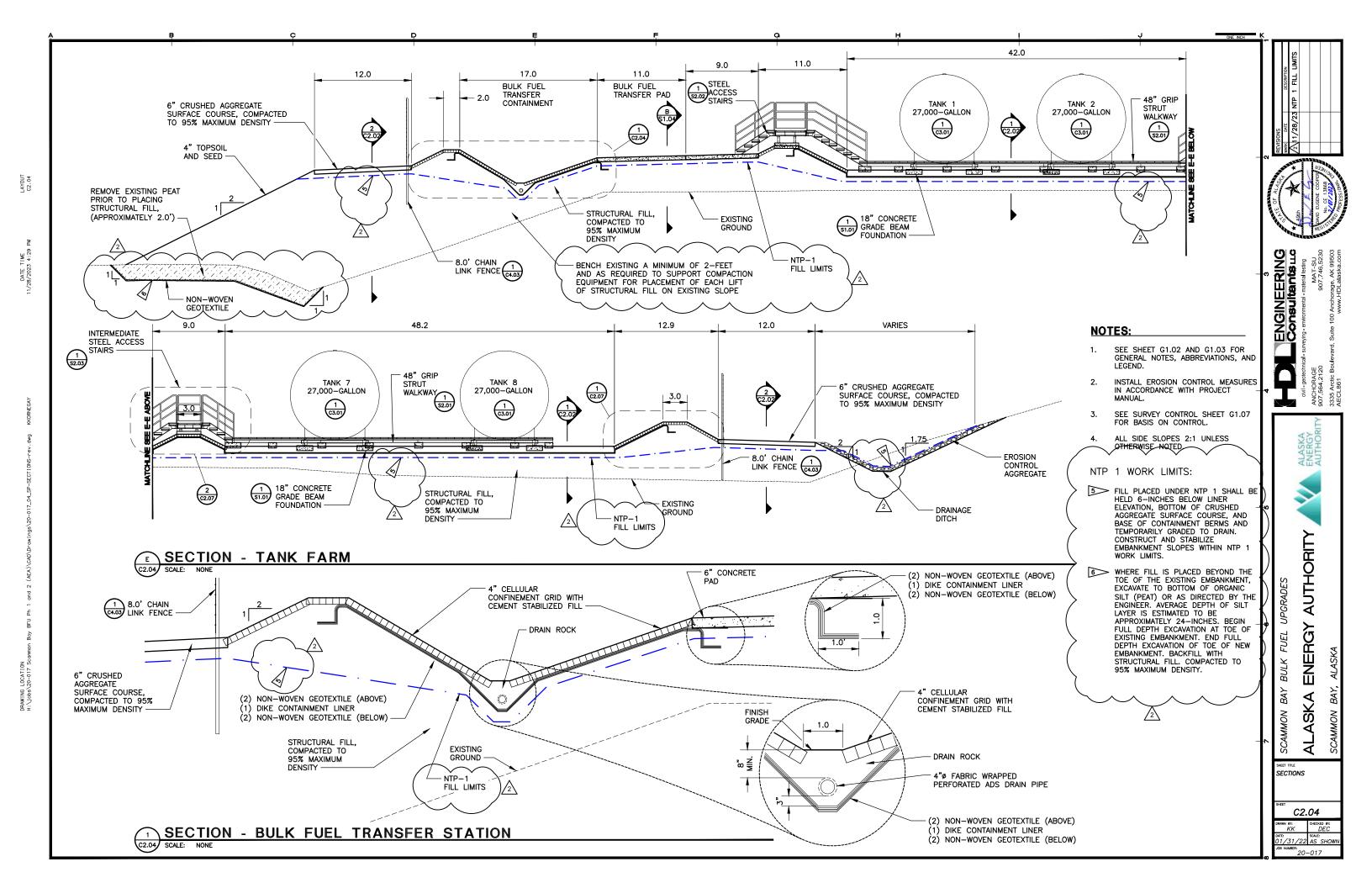


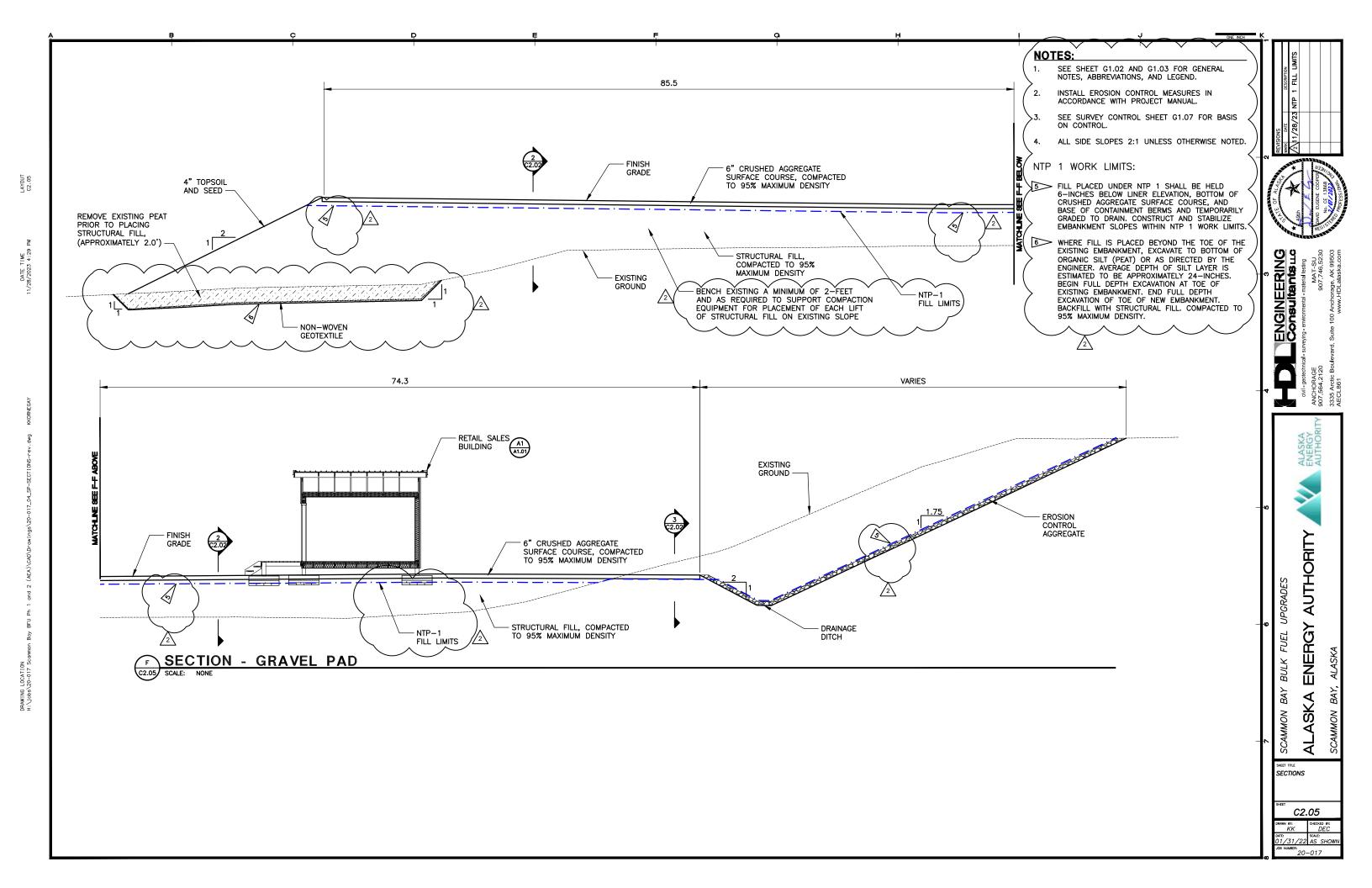


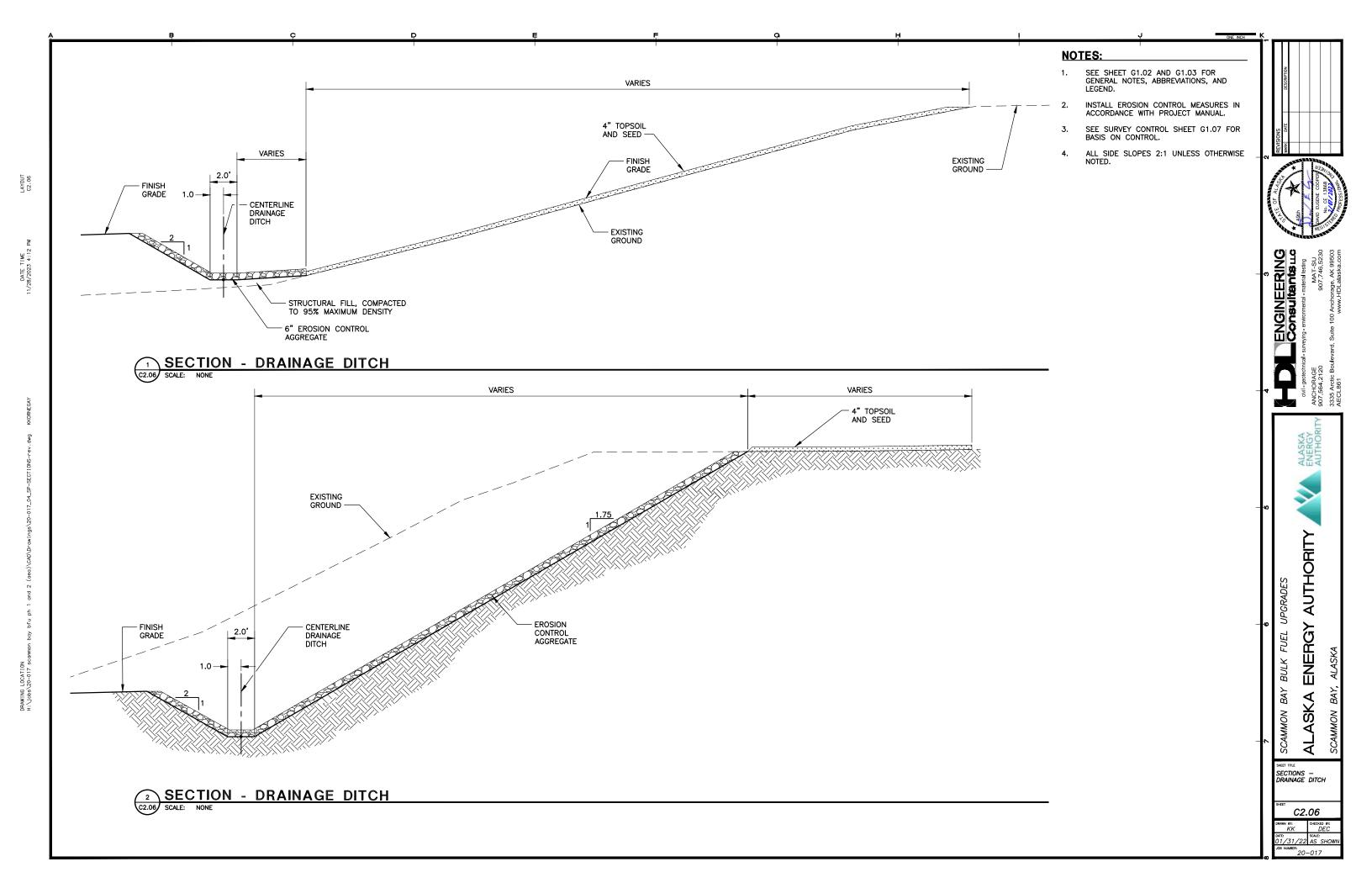


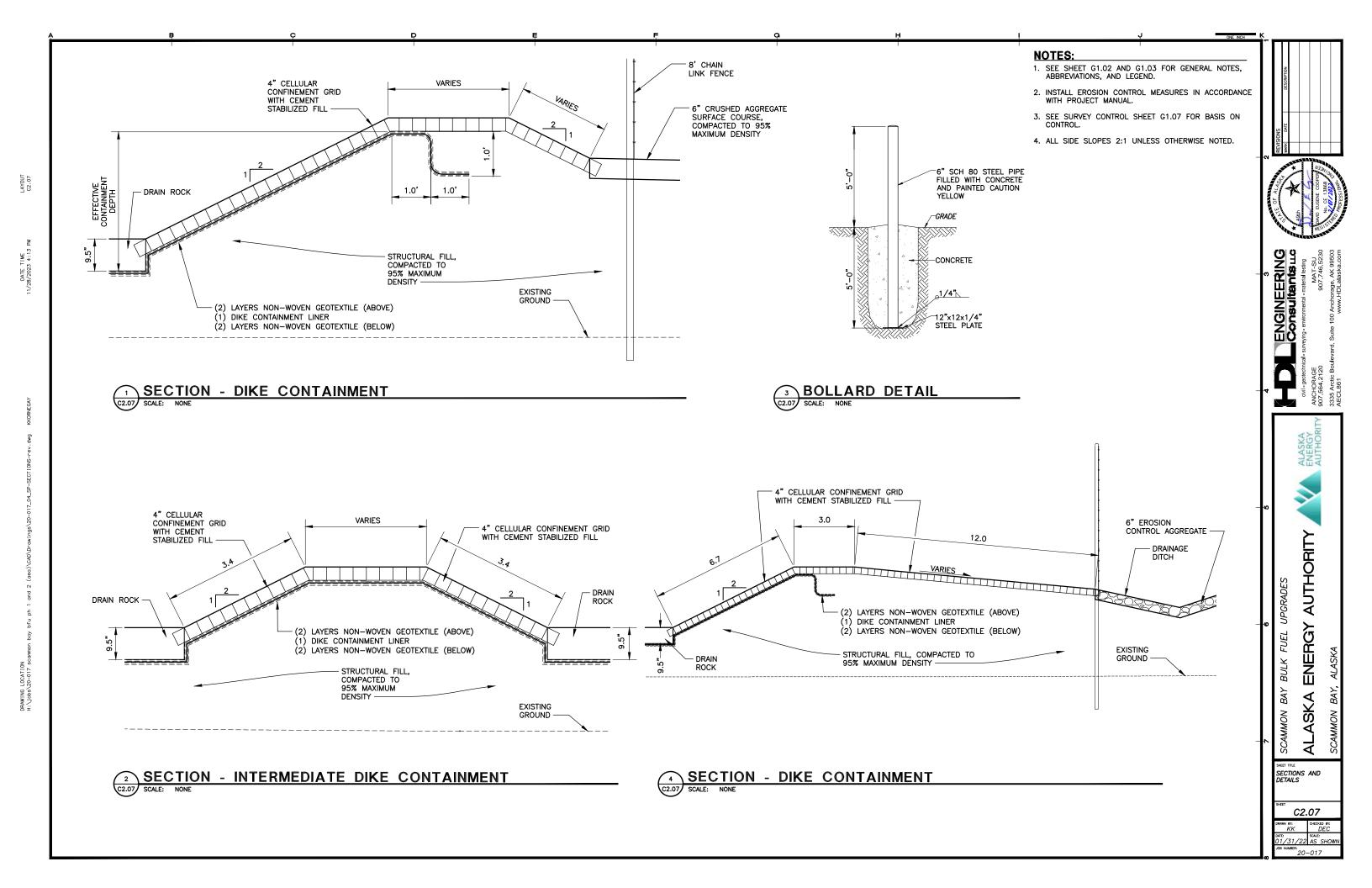


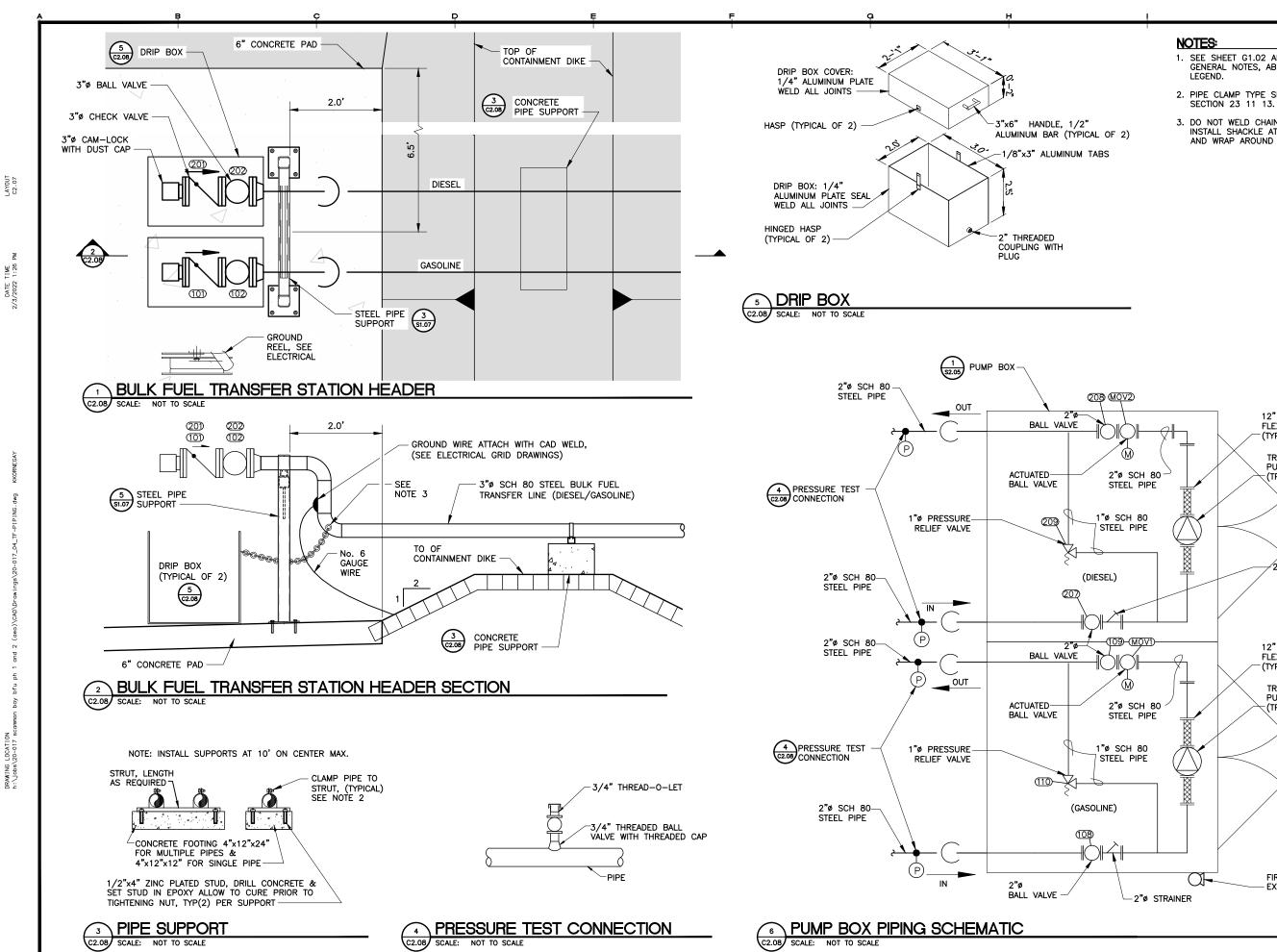












1. SEE SHEET G1.02 AND G1.03 FOR GENERAL NOTES, ABBREVIATIONS, AND

2. PIPE CLAMP TYPE SHALL BE PER

3. DO NOT WELD CHAIN LINK TO PIPING. INSTALL SHACKLE AT END OF CHAIN AND WRAP AROUND PIPE.

12" FLANGED

FLEX FITTING

TRANSFER

2"ø STRAINER

12" FLANGED

FLEX FITTING

TRANSFER

EXTINGUISHER

PUMP

(TP-1)

(TP-2)

(TYP)

ALAS

AUTHORITY

ENERGY SKA

 $\frac{1}{2}$

C2.08

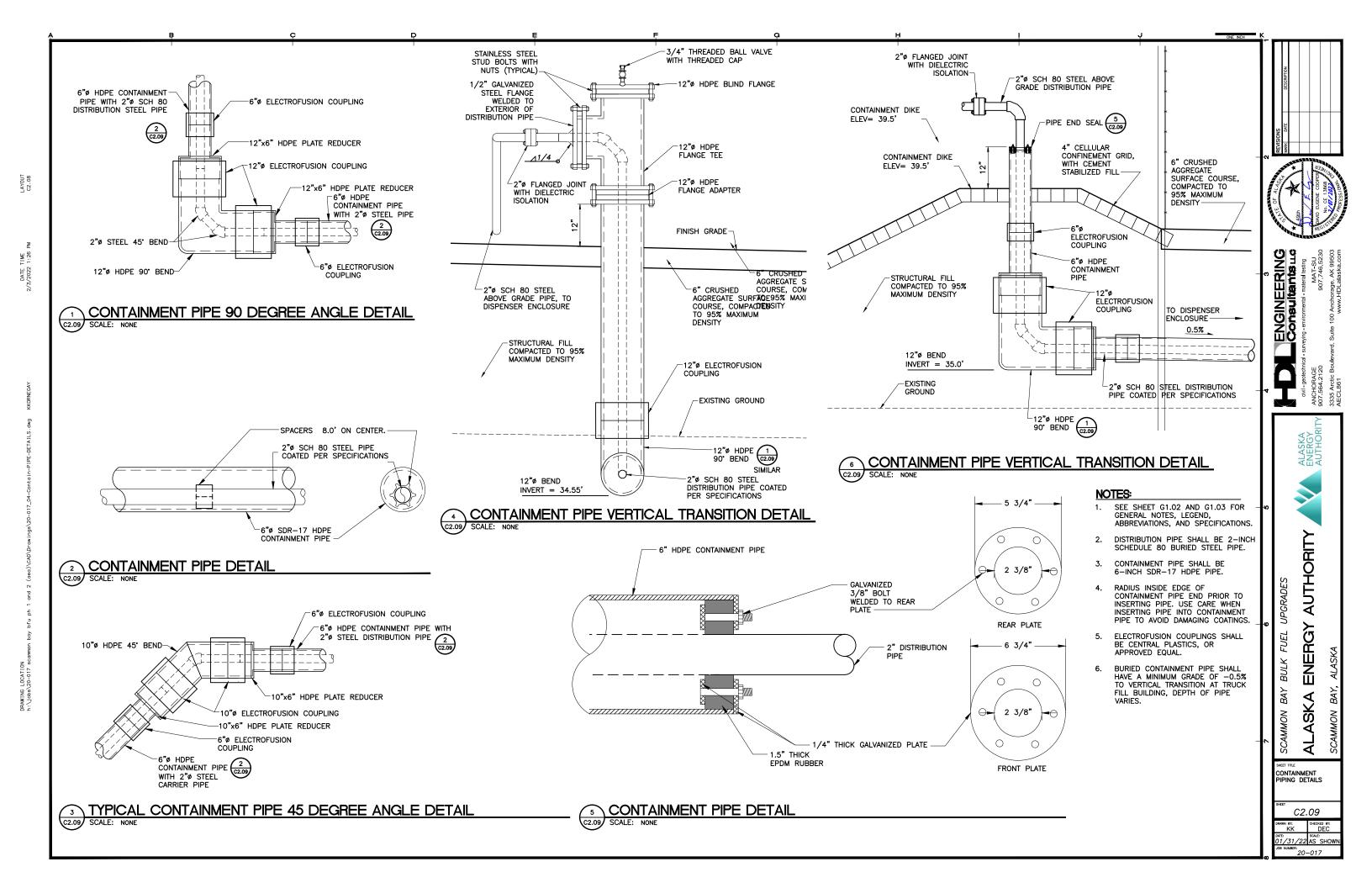
1/31/22 AS SHOW

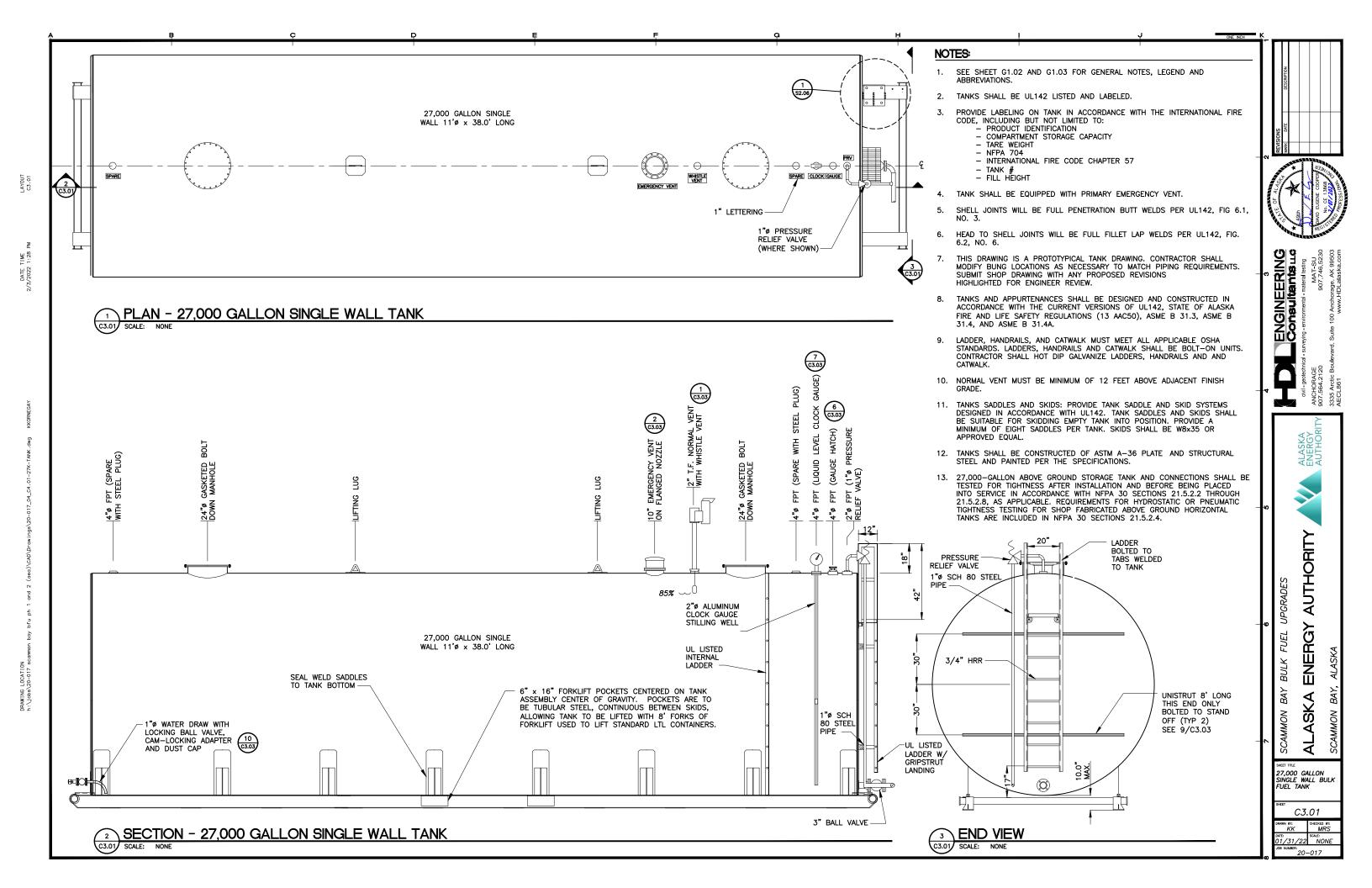
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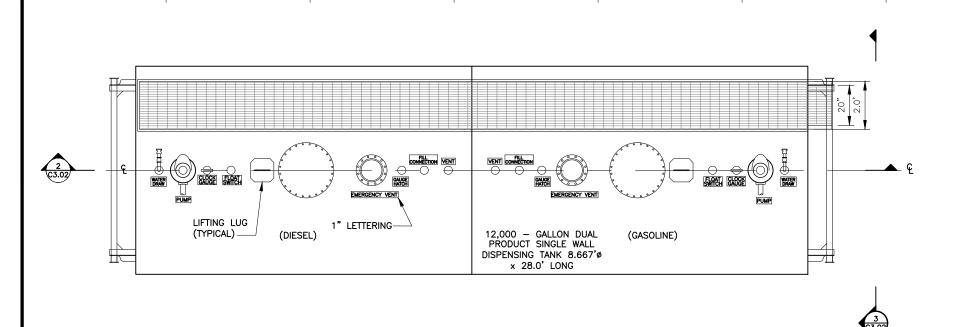
PIPING DETAILS

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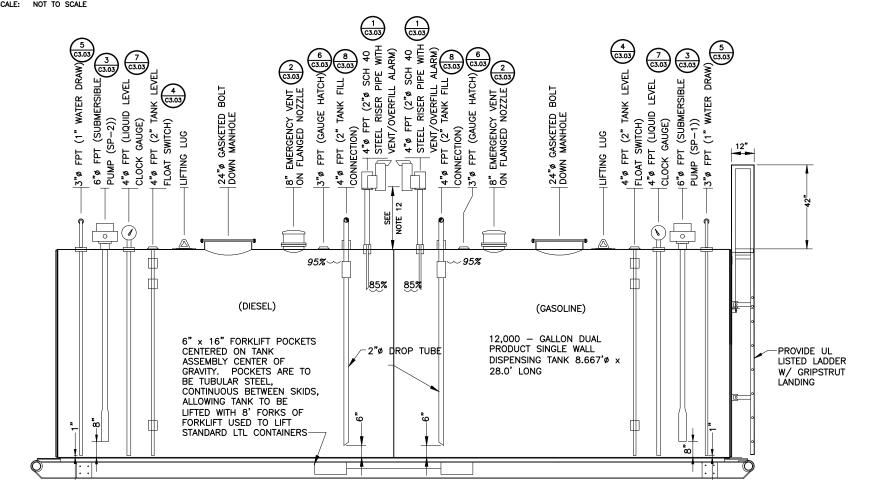
KK MRS





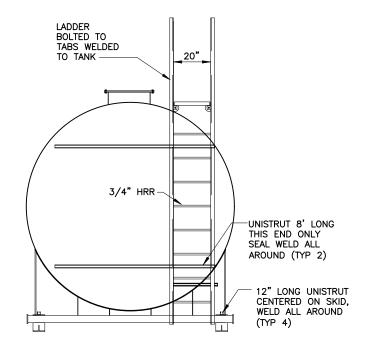


PLAN VIEW - 12,000 - GALLON DUAL PRODUCT DISPENSING TANK C3.02 SCALE: NOT TO SCALE

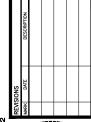


NOTES:

- 1. SEE SHEET G1.02 AND G1.03 FOR GENERAL NOTES, ABBREVIATIONS AND LEGEND.
- THE TANK AND APPURTENANCES SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE STATE OF ALASKA FIRE AND LIFE SAFETY REGULATIONS (13 AAC50), ASME B31.3, ASME B31.4. AND B31.4A.
- 3. TANK SHALL BE NEW UL 142 LISTED AND LABELED.
- 4. SHELL JOINTS WILL BE FULL PENETRATION BUTT WELDS PER UL 142, FIG. 6.1, NO. 3.
- 5. HEAD TO SHELL JOINTS WILL BE FULL FILLET LAP WELDS PER UL 142, FIG. 6.2, NO. 6.
- 6. TANK SHALL BE CONSTRUCTED OF ASTM A-36 PLATE AND STRUCTURAL STEEL.
- 7. TANK SADDLES AND SKIDS: PROVIDE TANK SADDLES AND SKID SYSTEMS DESIGNED IN ACCORDANCE WITH UL 142. TANK SADDLES AND SKIDS SHALL BE SUITABLE FOR SKIDDING EMPTY TANK INTO POSITION AT SITE DURING INSTALLATION. PROVIDE A MINIMUM OF FOUR SADDLES. SKIDS SHALL BE W8x35, OR APPROVED EQUAL.
- 8. TANK SHALL BE EQUIPPED WITH EMERGENCY VENT.
- PROVIDE LABELING ON TANK IN ACCORDANCE WITH THE INTERNATIONAL FIRE CODE, INCLUDING BUT NOT LIMITED TO:
 - PRODUCT IDENTIFICATION
 - COMPARTMENT STORAGE CAPACITY
 - TARE WEIGHT
 - NFPA 704
 - INTERNATIONAL FIRE CODE CHAPTER 57.
 - TANK #
 - FILL HEIGHT
- 10. ALL PRIMARY TANKS SHALL BE EQUIPPED WITH A COMBINATION VENT/OVERFILL ALARM IN PLACE OF THE NORMAL VENT. SET WHISTLE TO START AT 85% OF TANK CAPACITY.
- 11. LADDER, HANDRAILS, AND CATWALK MUST MEET ALL APPLICABLE OSHA AND UL 142 STANDARDS AND SHALL BE BOLT-ON UNITS COATED WITH A HOT DIP ZINC GALVANIZE.
- 12. NORMAL VENT MUST BE MINIMUM OF 12 FEET ABOVE ADJACENT FINISH GRADE.
- 13. THIS DRAWING IS A PROTOTYPICAL TANK DRAWING. CONTRACTOR SHALL MOVE FILL AND ISSUE BUNG LOCATIONS TO MATCH EACH TANK'S PIPING LOCATION REQUIREMENTS.
- 14. TANK SHALL BE PAINTED PER CONTRACT DOCUMENTS.
- 15. 12,000—GALLON ABOVE GROUND STORAGE TANK AND CONNECTIONS SHALL BE TESTED FOR TIGHTNESS AFTER INSTALLATION AND BEFORE BEING PLACED INTO SERVICE IN ACCORDANCE WITH NFPA 30 SECTIONS 21.5.2.2 THROUGH 21.5.2.8, AS APPLICABLE. REQUIREMENTS FOR HYDROSTATIC OR PNEUMATIC TIGHTNESS TESTING FOR SHOP FABRICATED ABOVE GROUND HORIZONTAL TANKS ARE INCLUDED IN NFPA 30 SECTIONS 21.5.2.4.









material testing
MAT-SU
907.746,5230
rage, AK 99503
IDLalaska.com

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Consultants LLc
surveying - environmental material testing
NAT-SU
907.746.5230
and, Suite 100 Anchorage, AK 99503

oivil - geotechnical - surveyir
ANCHORAGE
907.564.2120
3335 Arctic Boulevard, S.
AECL861

ALASKA ENERGY AUTHORIT

TY

FUEL UPGRADES

RGY AUTHO

KA ENERG

SCAMMON BAY BULK
ALASKA ENE

SHEET TITLE

12,000 GALLON
SINGLE WALL
DUAL PRODUCT
DISPENSING TANK

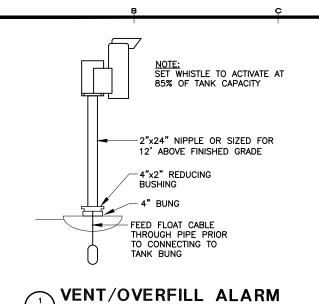
C3.02

DRAWN 67: CHECKED 67: CKK DC

DATE: SCALE: NONE

2 SECTION - 12,000 - GALLON DUAL PRODUCT DISPENSING TANK
C3.02 SCALE: NOT TO SCALE





C3.03 SCALE: NOT TO SCALE

NOTE: SEE TANK DRAWING FOR FLOAT CONFIGURATION. TOP OF TANK 2" TANK FLANGE CRITICAL HIGH LEVEL FLOAT 316 STAINLESS STEEL HIGH LEVEL FLOAT LOW LEVEL FLOAT 6" CLEAR - BOTTOM OF TANK

CLOCK GAUGE NOTES:

SET RED ARROW AT 90% CAPACITY

& GREEN ARROW

AT 50% CAPACITY

- 4"x2" REDUCING BUSHING

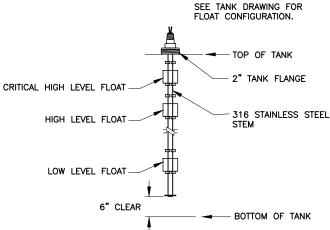
2" COUPLING

- 2"x8" NIPPLE

-4" BUNG

- DROP THE FLOAT

- 1. FEED FLOAT CABLE THROUGH NIPPLE PRIOR TO CONNECTING TO TANK.
- 2. GREASE FLOAT PRIOR TO INSTALLING IN TANK TO PREVENT FREEZING TO BOTTOM.
- 3. CALIBRATE GAUGE AFTER FILLING TANK AND VERIFY WITH MANUAL GAUGING ROD.
- 4. ENSURE THAT BACK COVER PLATE IS PROPERLY SEALED AFTER REASSEMBLY (ANY LOOSENESS OR RATTLING WHEN TAPPED INDICATES A POOR SEAL).





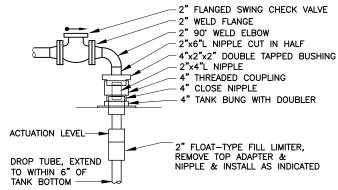
CAMLOCK WITH CAP



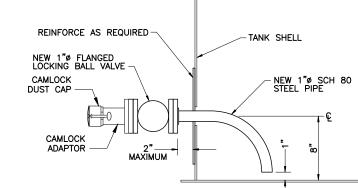
2"ø ALUMINUM

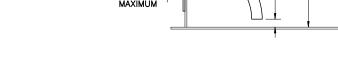
STILLING WELL

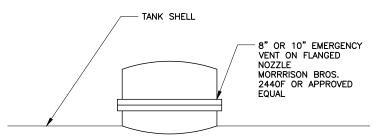
(TYPICAL)

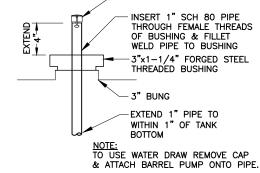


NOTE: PIPING SIZED TO PROVIDE SHUT OFF WHEN ACTUATION LEVEL IS AT FIELD VERIFY SHUT OFF HEIGHT & ADJUST LINKAGE AS REQUIRED.



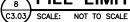




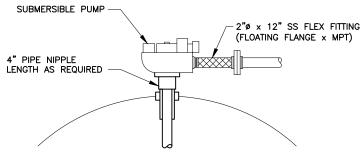










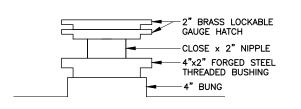


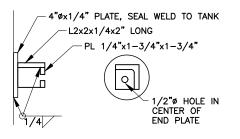
EMERGENCY VENT

C3.03 SCALE: NOT TO SCALE

SUBMERSIBLE PUMP ASSEMBLY NOTES:

- 1. PRIOR TO PLACING PUMP IN TANK, INSTALL TRAPPER SCREEN AND SET PUMP LENGTH SO THAT INTAKE WILL BE 8" ABOVE TANK BOTTOM. SECURELY TIGHTEN AND LOCK ADJUSTING MECHANISM.
- 2. AFTER INSTALLATION REMOVE ALL BOLTS, PLUGS, AND FITTINGS ON TOP. THOROUGHLY COAT THREADS WITH ANTI-SIEZE COMPOUND, REINSTALL, AND TIGHTEN SECURELY.













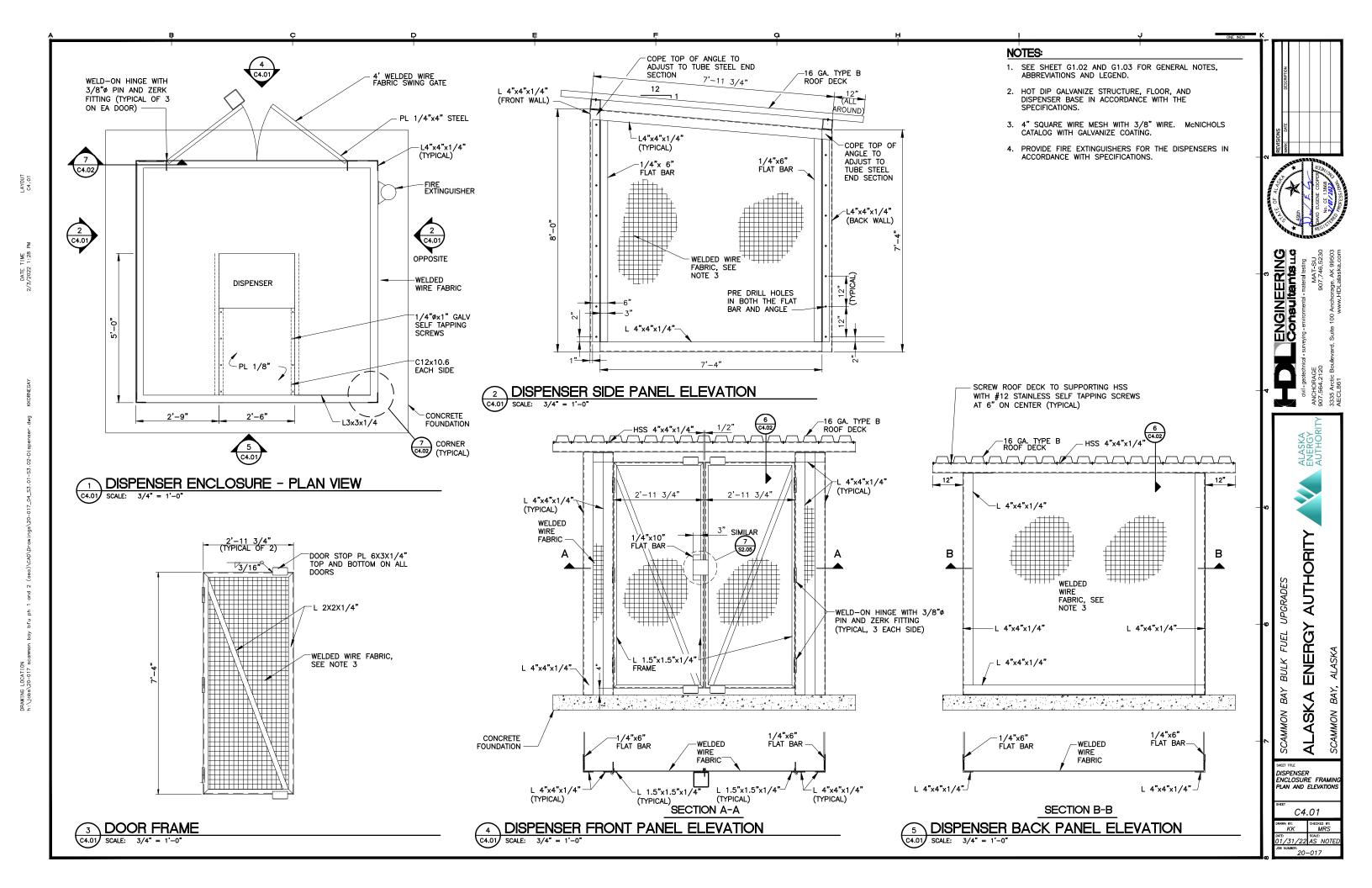
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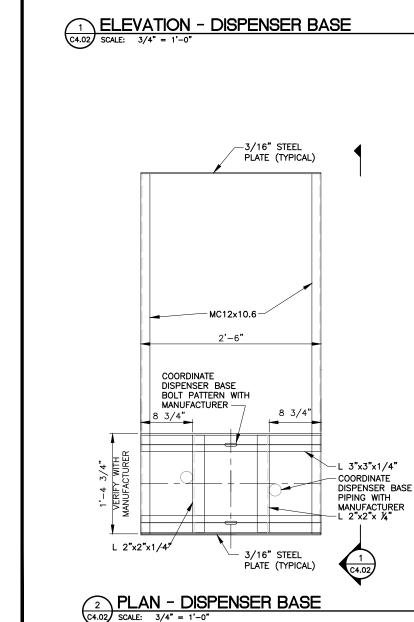
TYPICAL TANK APPURTENANCE DETAILS

C3.03 RAWN BY: CHECKED BY:

KK DEC ATE: SCALE: SCALE: AS SHOW







3/16" STEEL PLATE

L 2"x2"x1/4"

BE 1/8" FILLET SEAL WELDED.

L 3"x3"x1/4"

(TYPICAL)

3/16" STEEL PLATE

NOTES:

(TYPICAL)

32" HINGED DOOR

_ 3"x3"x1/4" COPE

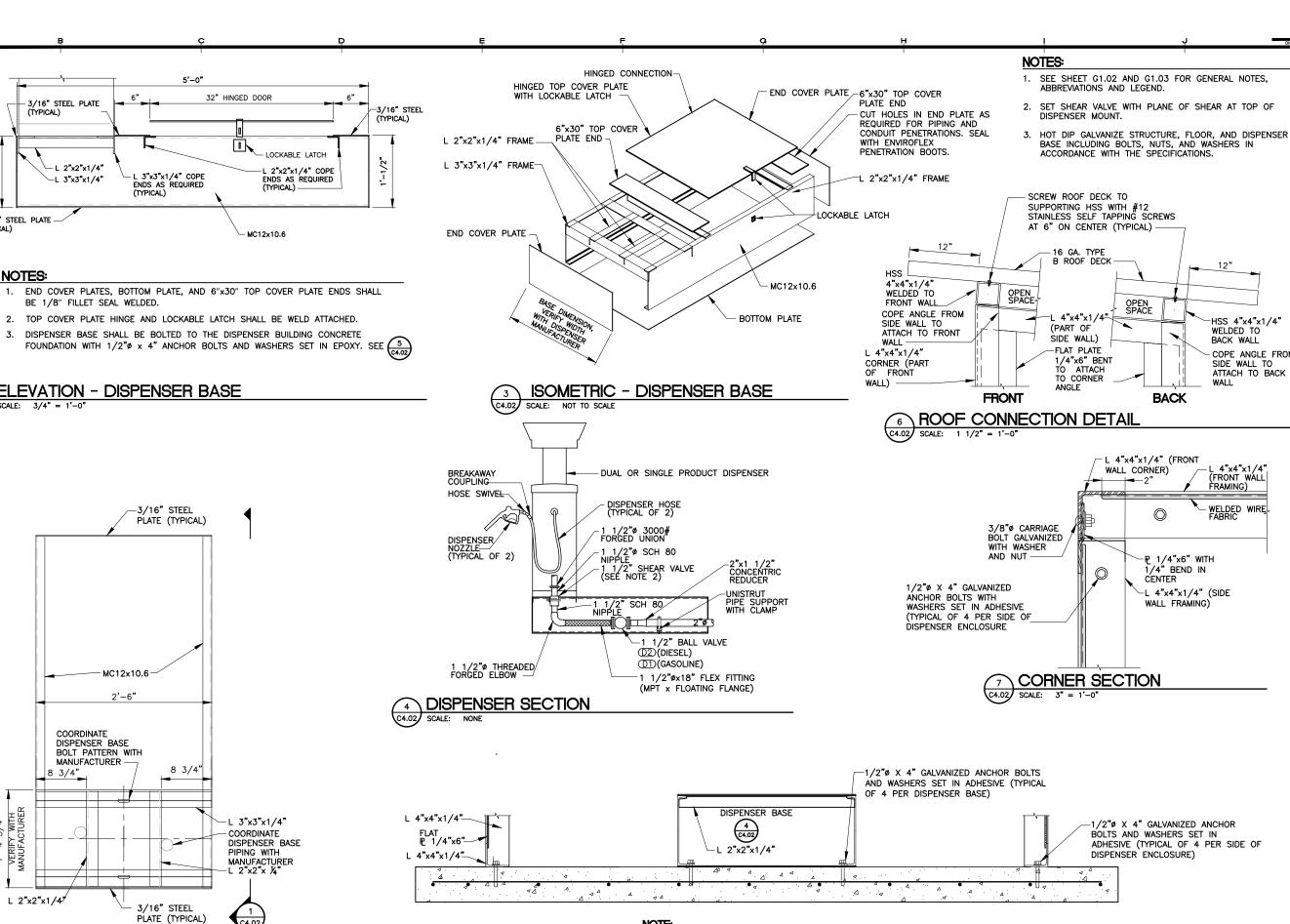
2. TOP COVER PLATE HINGE AND LOCKABLE LATCH SHALL BE WELD ATTACHED.

3. DISPENSER BASE SHALL BE BOLTED TO THE DISPENSER BUILDING CONCRETE

ENDS AS REQUIRED (TYPICAL)

L 2"x2"x1/4" COPE ENDS AS REQUIRED (TYPICAL)

MC12x10.6



SEE STRUCTURAL NOTES ON S1.02 FOR ADHESIVE SYSTEM

FRAMING SECTION C4.02 SCALE: $1 \frac{1}{2} = 1'-0"$

7 DISPENSER ENCLOSURE SECTION AND DETAILS

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HSS 4"x4"x1/4"

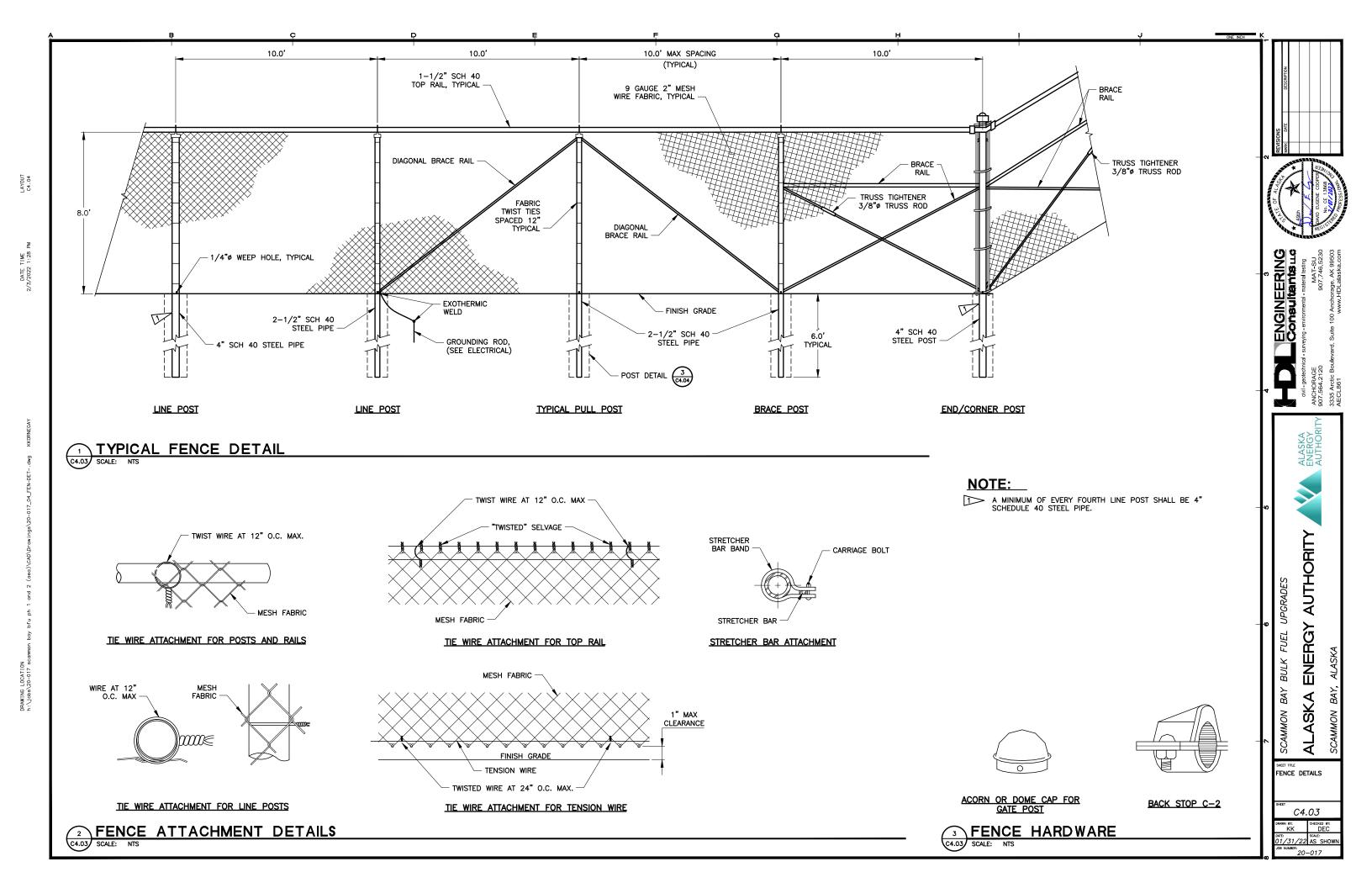
COPE ANGLE FROM

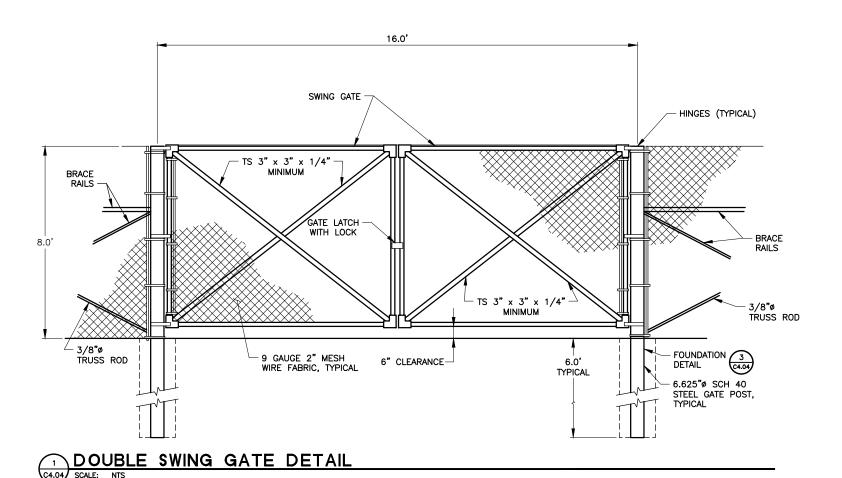
4"x4"x1/4"

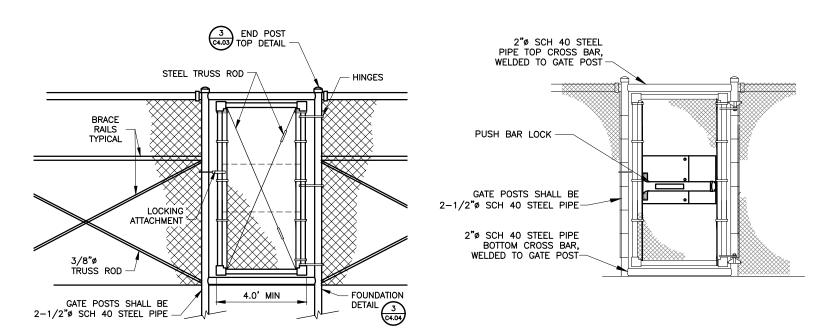
C4.02 WIN BY: CHECKED BY:

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1/31/22 AS NOT







INTERIOR VIEW

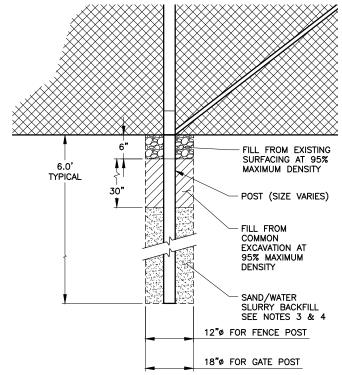
EXTERIOR VIEW

PEDESTRIAN GATE DETAIL

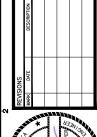
c4.04 SCALE: NTS

NOTES:

- 1. GATE FABRIC SHALL BE SAME DESIGN AND HEIGHT OF LINE FENCE FABRIC.
- GATE FRAMES SHALL BE WELDED PRIOR TO COATING AND SHALL BE BRACED TO ELIMINATE SAGGING. HINGES, LATCHES, AND OTHER GATE APPARATUSES SHALL BE OF SUFFICIENT STRENGTH AND DESIGN TO ASSURE EASY,
- 3. SLURRY BACKFILLING OPERATIONS SHALL BE PERFORMED IN LIFTS IN A CONTINUOUS MANNER.
- SLURRY BACKFILL SHALL BE THOROUGHLY RODDED, TAMPED OR MECHANICALLY VIBRATED WITH A DOWNHOLE, PENCIL TYPE VIBRATOR OR OTHER VIBRATOR TECHNIQUE APPROVED IN ADVANCE BY THE ENGINEER.
- 5. ALL GATE COMPONENTS SHALL BE HOT DIPPED GALVANIZED.
- CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR GATE ASSEMBLY.









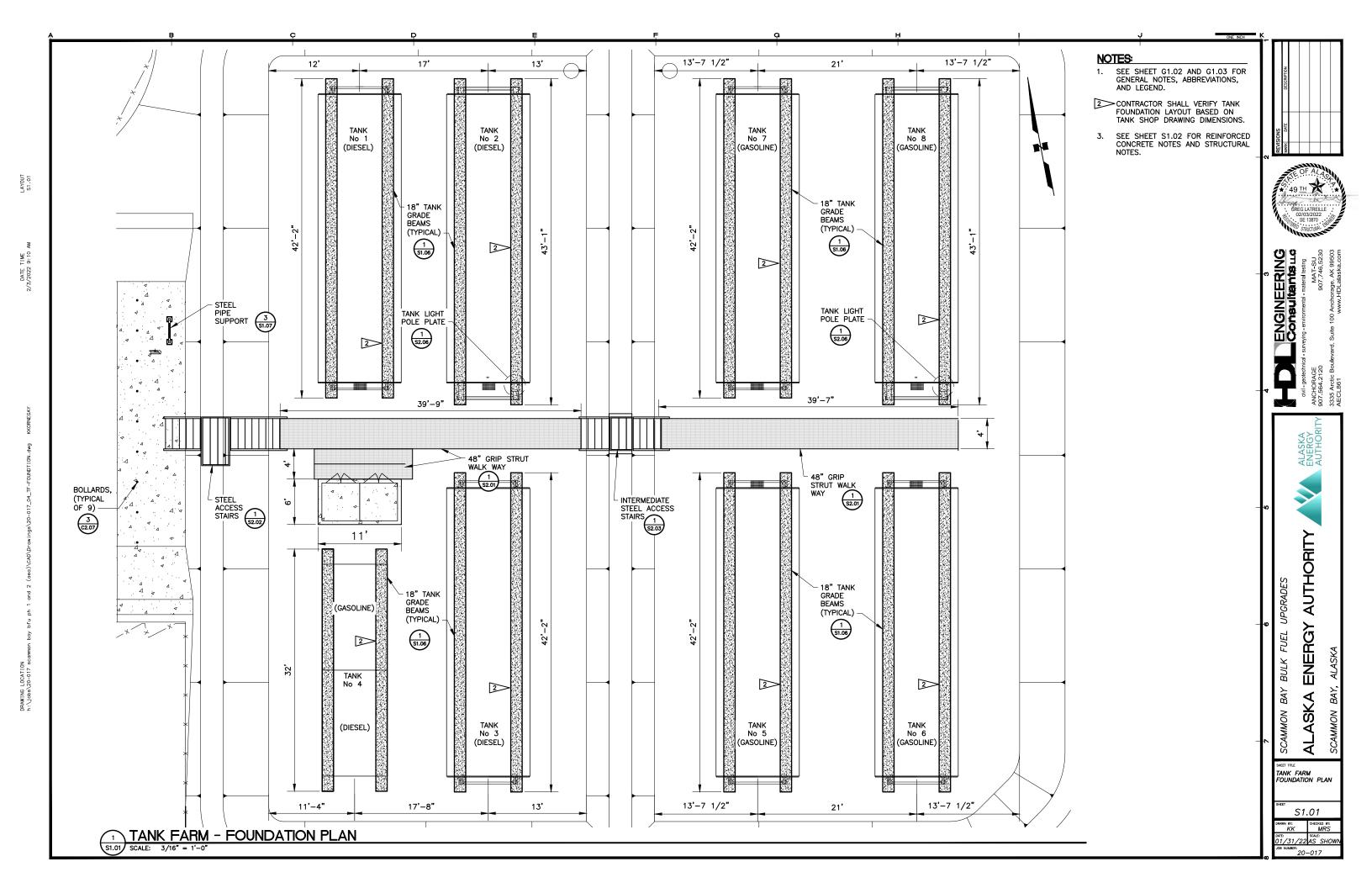
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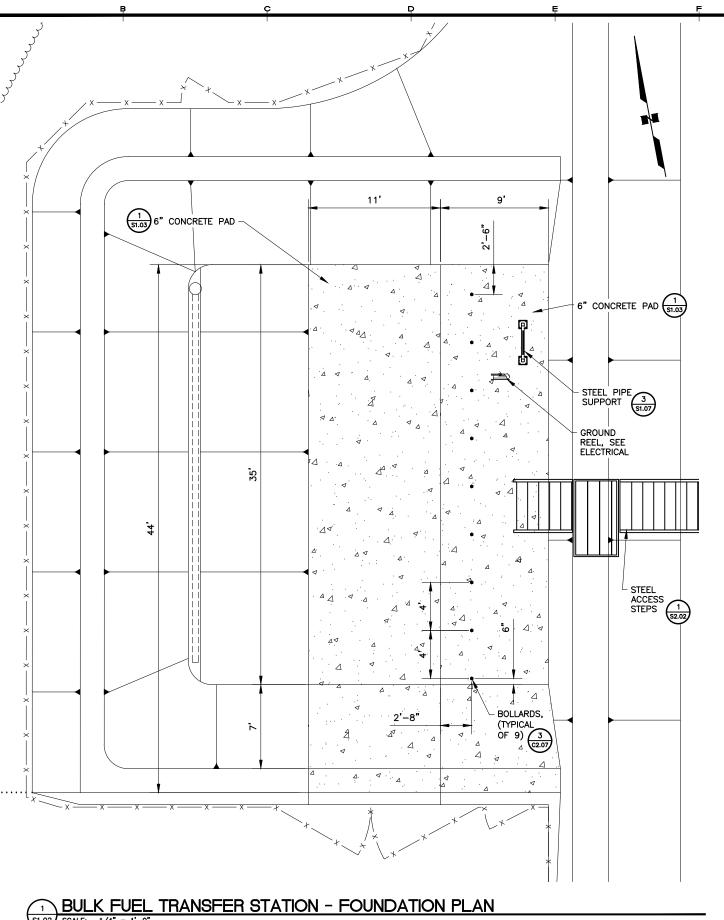
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4 FENCE DETAILS

C4.04

1/31/22 AS SHOW





REINFORCED CONCRETE:

1. ALL CONCRETE - fcQS = 3,000 PSI, MAXIMUM W/C = 0.52. SUBMIT MIX DESIGN. SEE SPECIFICATIONS FOR ADMIXTURES.

2. UNLESS OTHERWISE NOTED, REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60. PROVIDE CLASS B SPLICE. SUBMIT REINFORCING STEEL SHOP DRAWINGS WITH DETAILS PER ACI 315 MANUAL OF STANDARD PRACTICE.

- 3. CONCRETE COVER: FOOTINGS & GRADE BEAMS 3". SLABS ON GRADE 1 1/2".
- 4. ANCHOR BOLTS: ASTM A307 OR F1554, GRADE 36. EMBED HEADED END OR PROVIDE DOUBLE NUT OR SINGLE NUT WITH MARRED THREADS ABOVE AND BELOW NUT. WELDING, INCLUDING TACK WELDS, TO ANCHOR BOLTS IS NOT PERMITTED.
- 5. DRILL-IN EXPANSION ANCHORS:

"KWIK BOLT TZ" BY HILTI FASTENING SYSTEMS OR APPROVED EQUAL. ICC—ES CERTIFICATION FOR SEISMIC RESISTANCE IN CRACKED CONCRETE REQUIRED. SPECIAL INSPECTION

6. DRILL-IN ADHESIVE ANCHORS:

"HIT HY 200" ADHESIVE ANCHOR SYSTEM BY HILTI FASTENING SYSTEMS FOR CONCRETE OR APPROVED EQUAL. ICC-ES CERTIFICATION FOR SEISMIC RESISTANCE IN CRACKED CONCRETE REQUIRED. SPECIAL INSPECTION REQUIRED.

7. CONCRETE SCREW ANCHORS:

"KH-EZ" ANCHOR SYSTEM BY HILTI FASTENING SYSTEMS FOR CONCRETE OR APPROVED EQUAL. ICC-ES CERTIFICATION FOR SEISMIC LOAD RESISTANCE IN CRACKED CONCRETE REQUIRED.

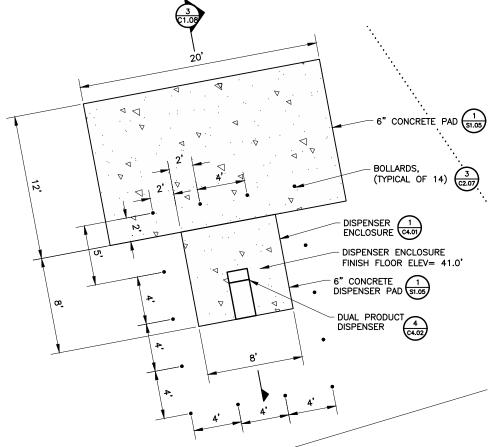
8. ALL EXPOSED CONCRETE SHALL HAVE 1-INCH CHAMFER.

STRUCTURAL STEEL:

- ALL STEEL ASTM A36, EXCEPT WIDE FLANGE SECTIONS TO BE ASTM A992, OR A572-50, TUBE SECTIONS TO BE ASTM A500 GRADE C, AND PIPE SECTIONS TO BE ASTM A53 TYPE E GRADE B. SUBMIT SHOP DRAWINGS.
- 2. WELDING PER AWS D1.1. MINIMUM SIZE WELDS 3/16" CONTINUOUS FILLET. WELDERS CERTIFIED PER AMERICAN WELDING SOCIETY FOR ROD AND POSITION. ELECTRODES SHALL BE E70XX MINIMUM, WITH MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20 FT-LB AT -20 DEG F.
- 3. HIGH-STRENGTH BOLTS PER ASTM F3125 TYPE 1, GRADE A325 OR F1852. TYPICAL BOLTED CONNECTIONS — SNUG TIGHTENED TYPE.
- 4. ALL REINFORCING STEEL SHALL BE BENT COLD AT THE MINIMUM RADIUS RECOMMENDED BY THE INTERNATIONAL BUILDING CODE (IBC) AND THE AMERICAN CONCRETE INSTITUTE (ACI).

NOTES:

1. SEE SHEET G1.02 AND G1.03 FOR GENERAL NOTES, ABBREVIATIONS, AND LEGEND.



DISPENSER ENCLOSURE - FOUNDATION PLAN 1 **DISPENSER** \$1.02 SCALE: 1/4" = 1'-0"





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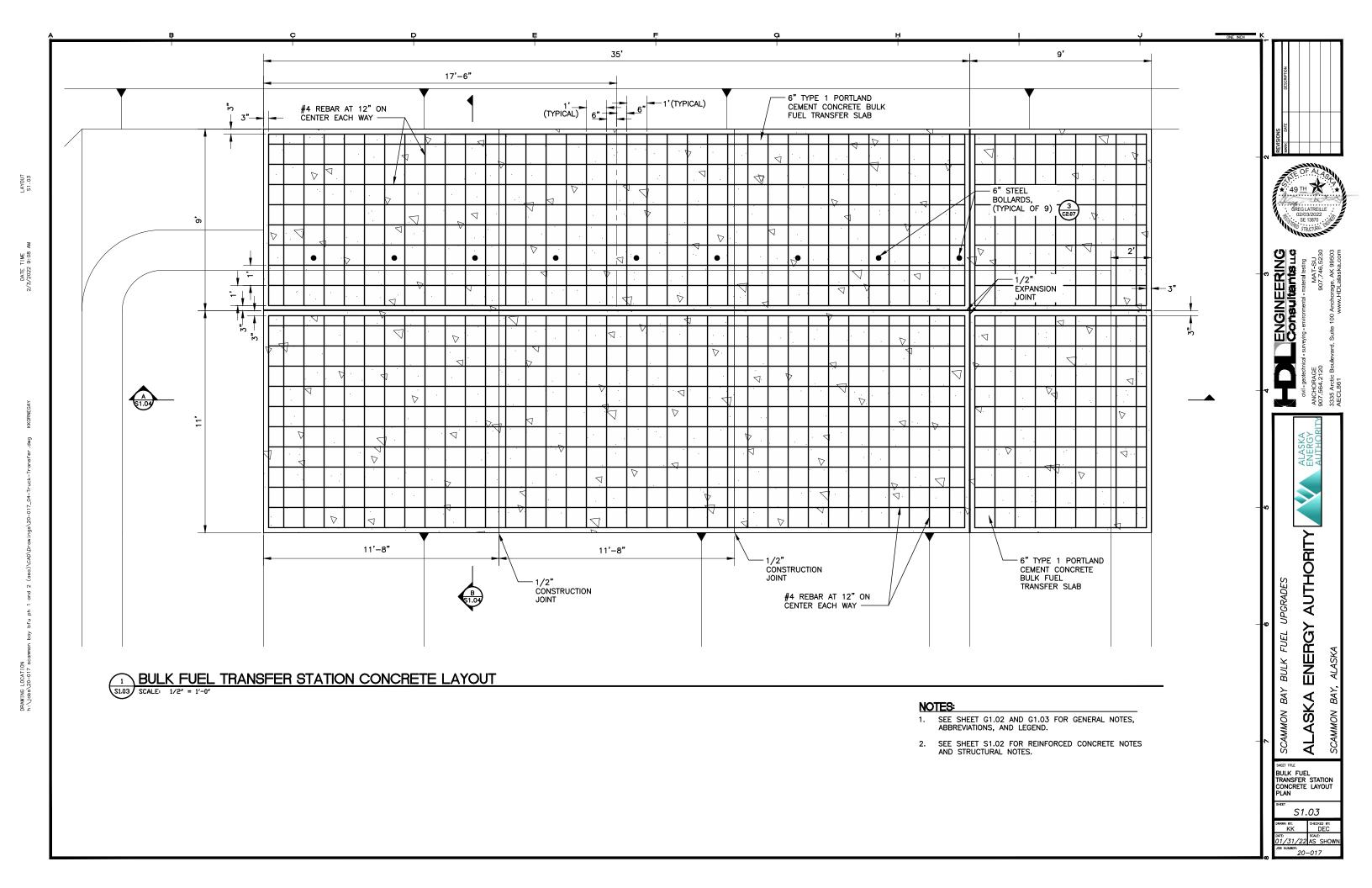
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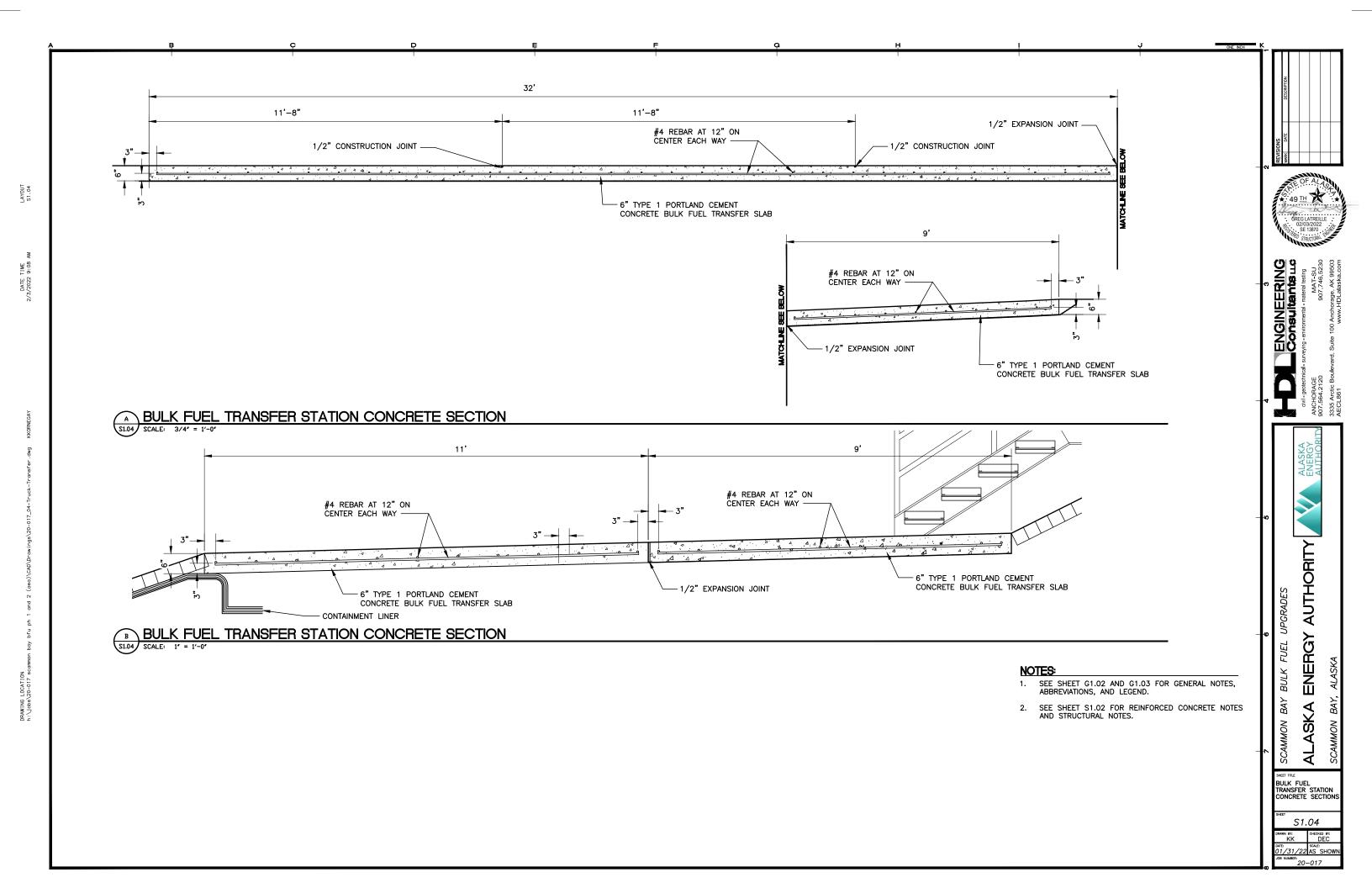
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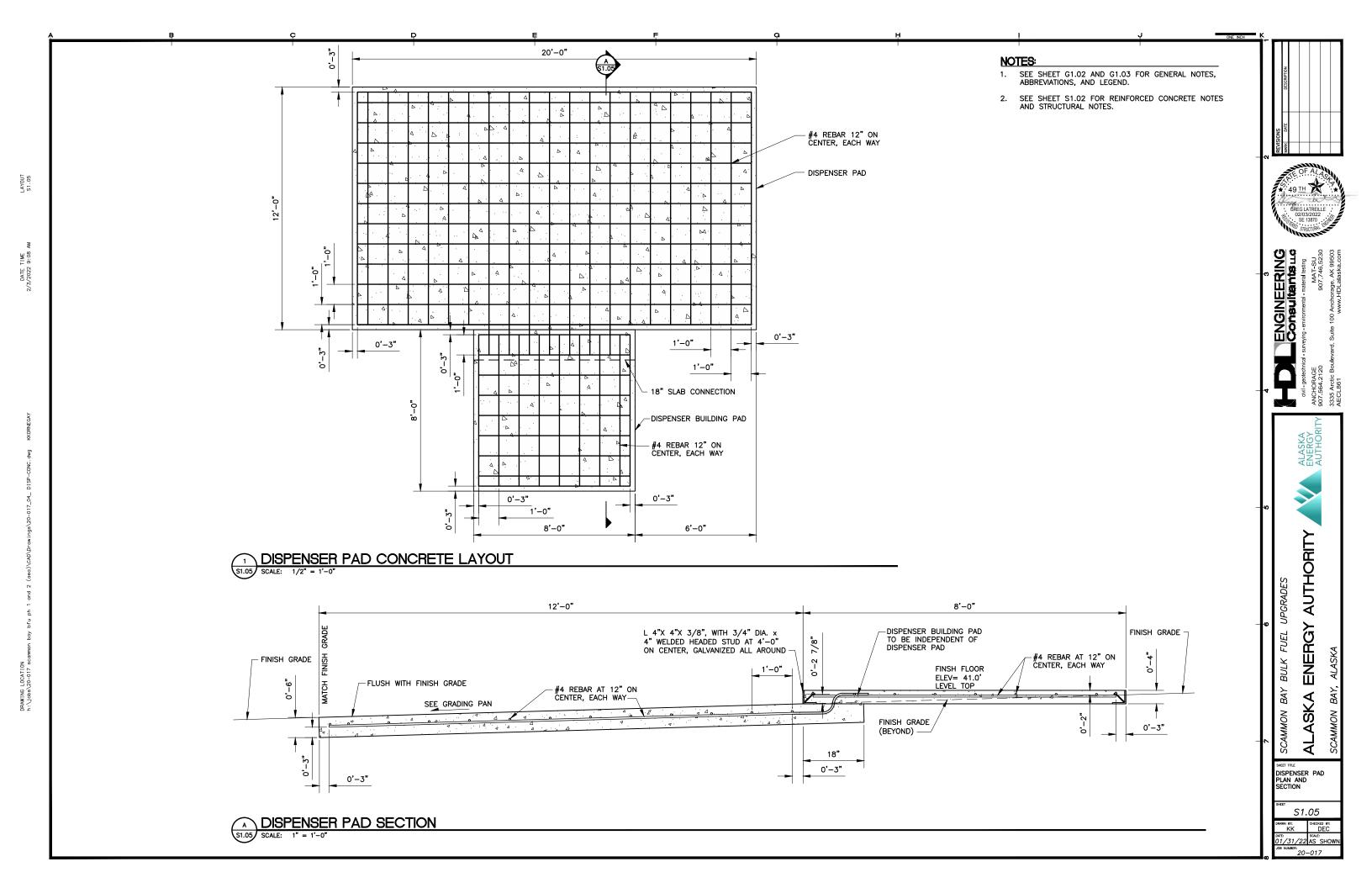
S1.02

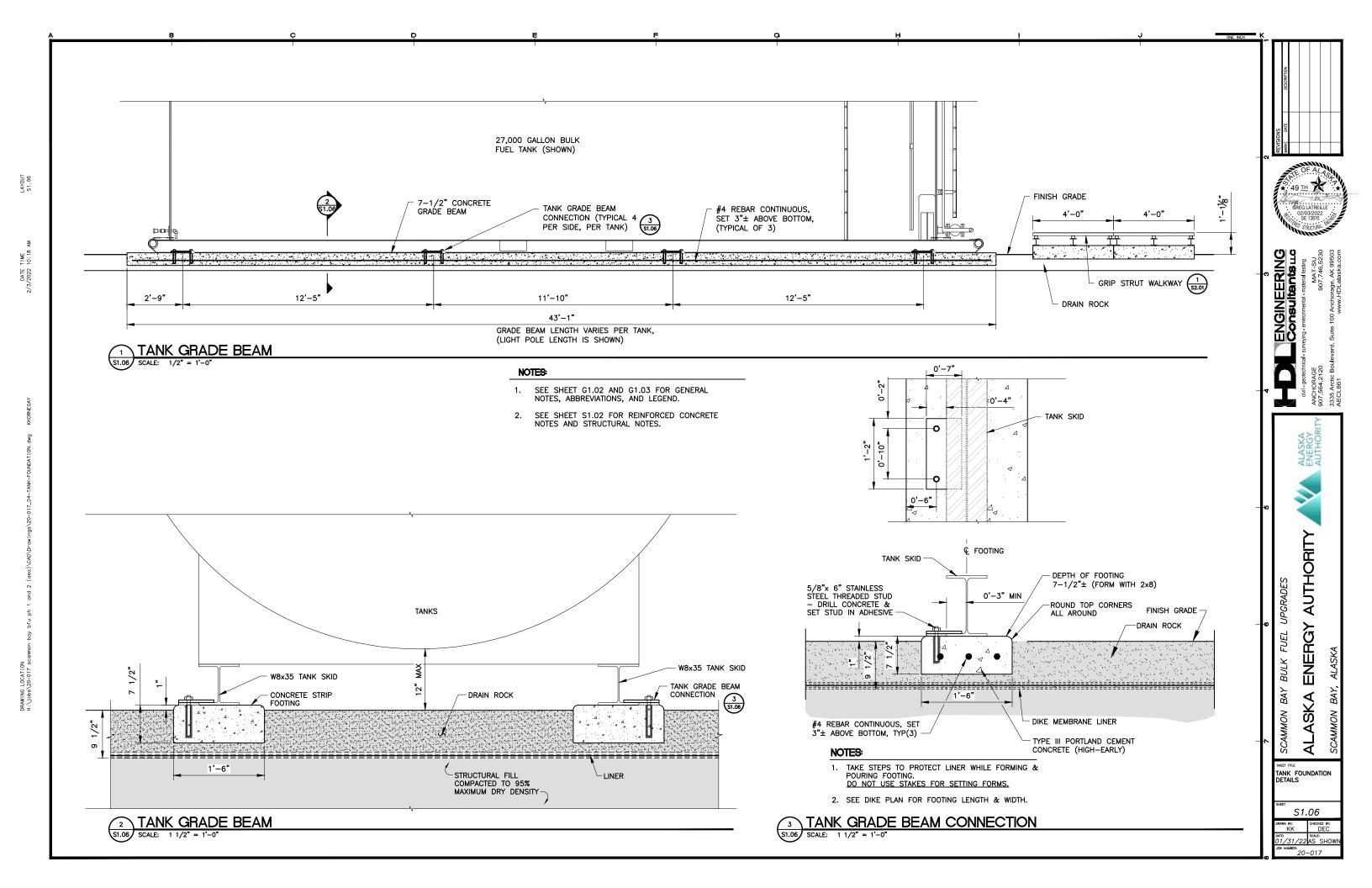
WIN BY: CHECKED BY:

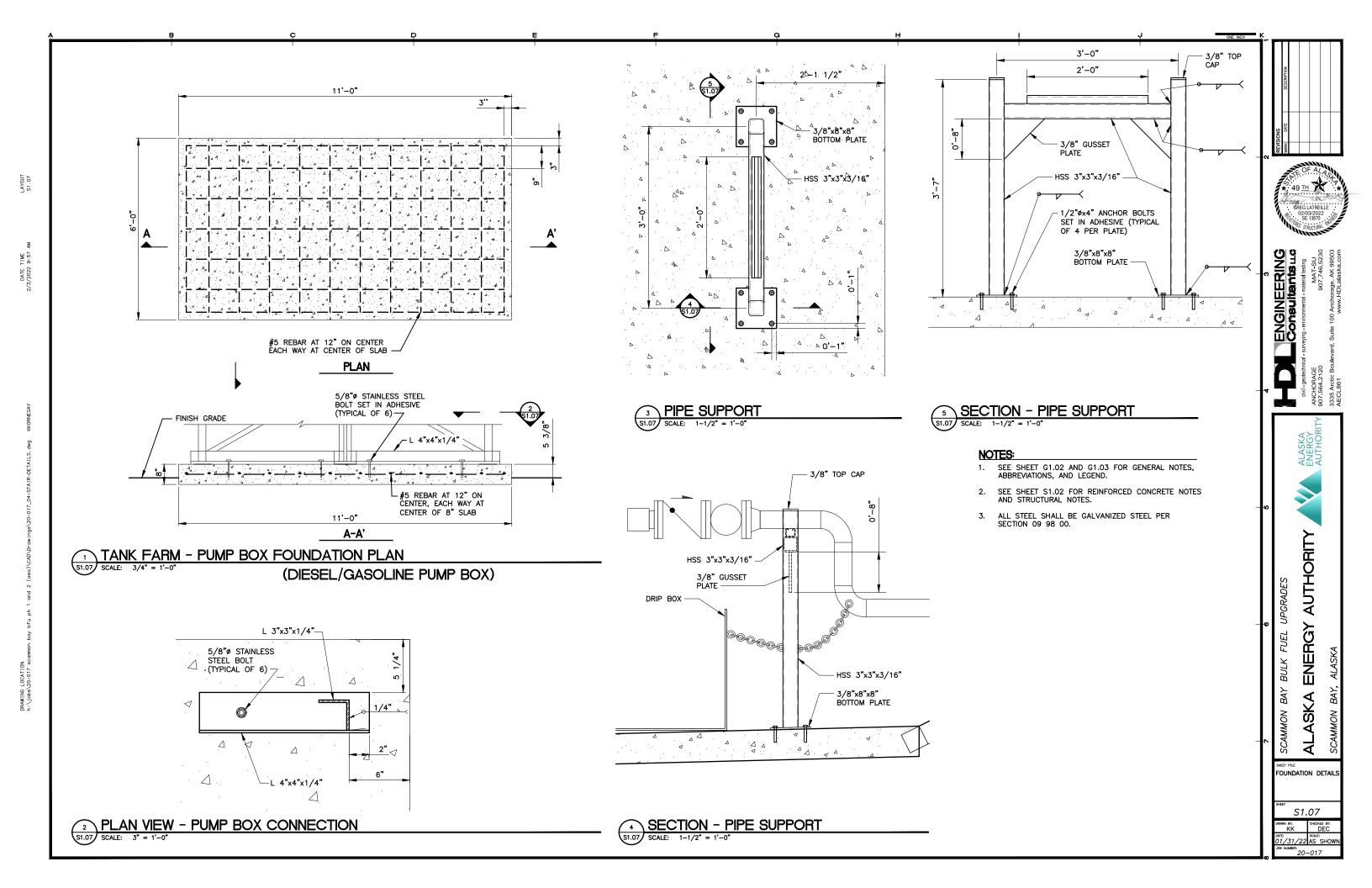
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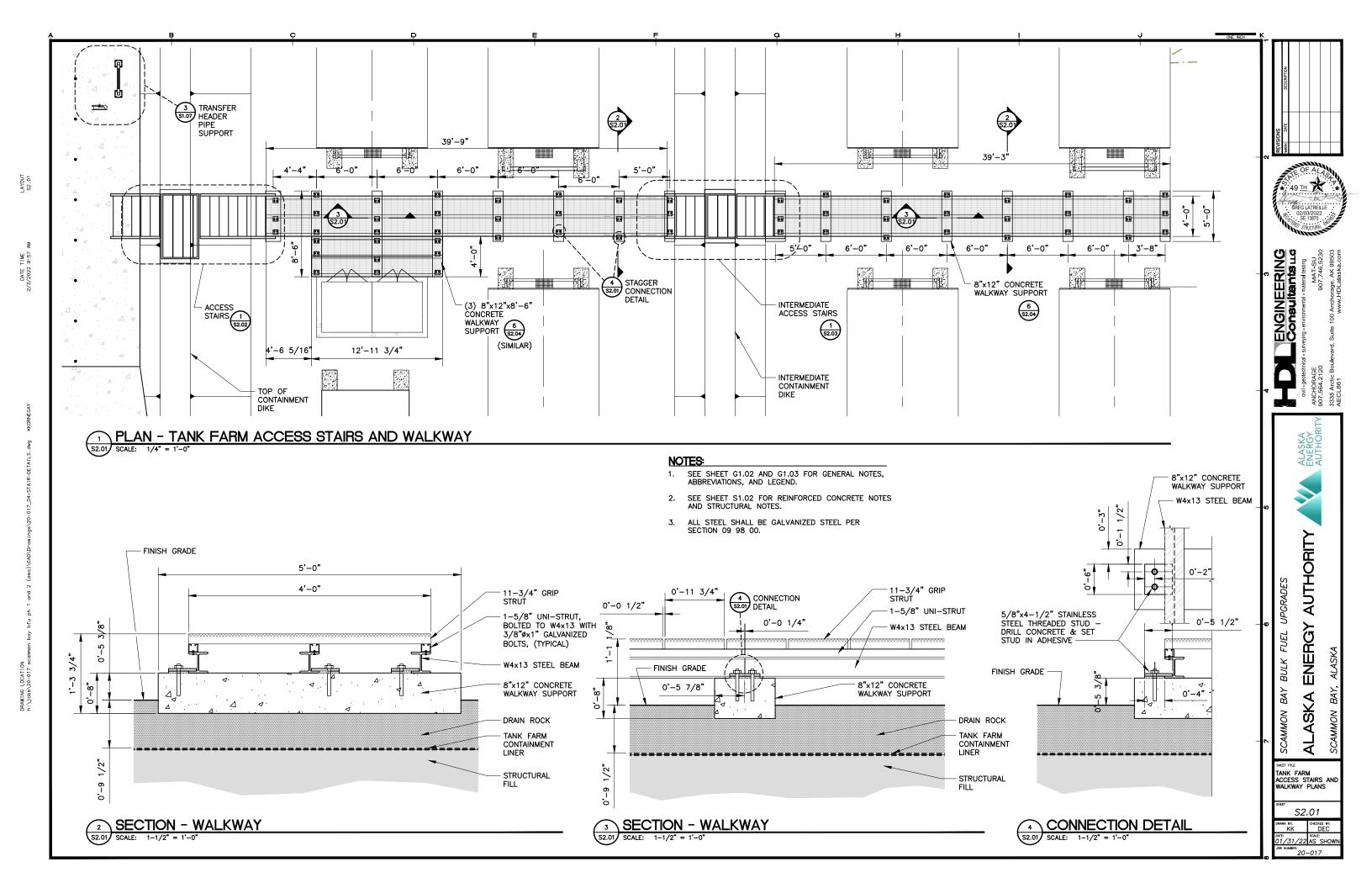


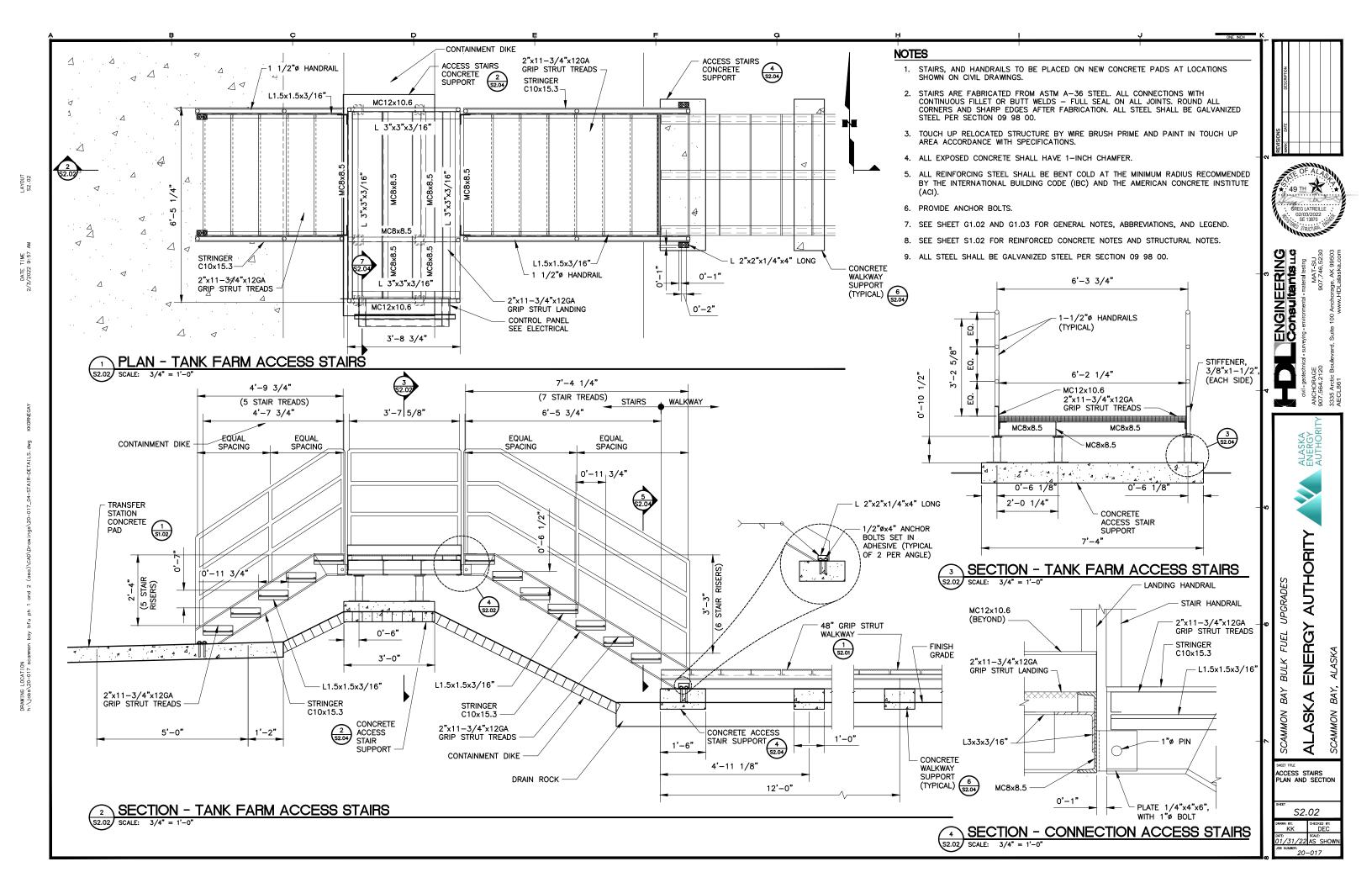


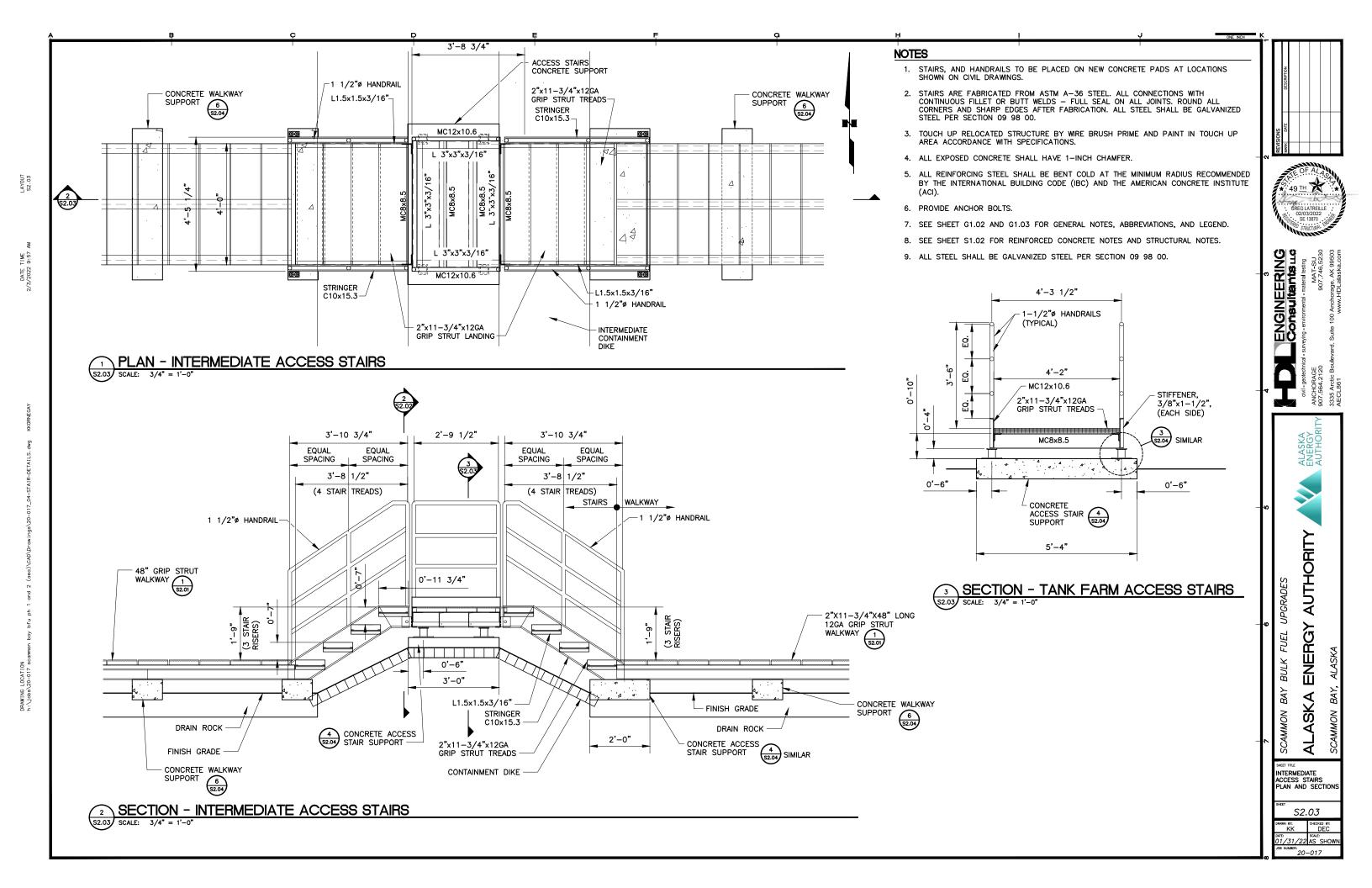


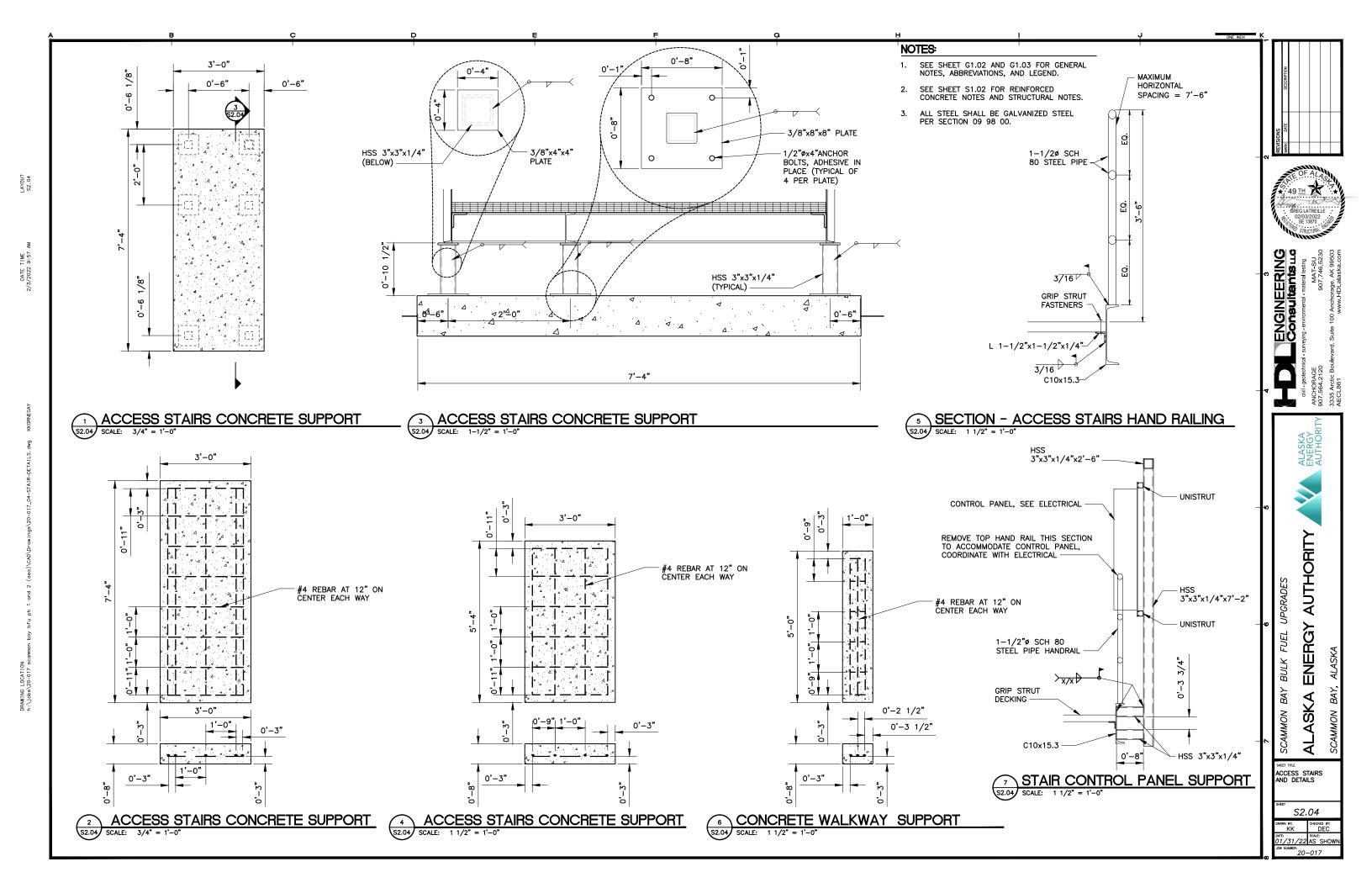












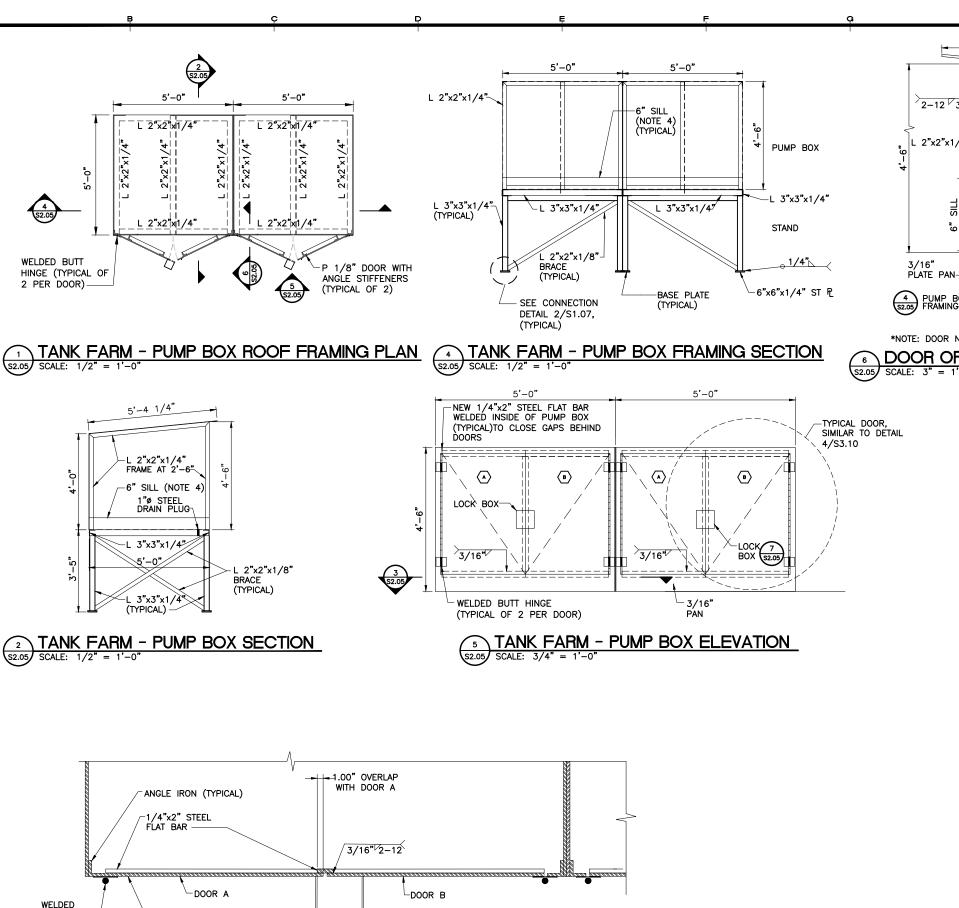
-INSTALL WEATHER STRIPPING

AROUND DOOR OPENING

TANK FARM - PUMP BOX SECTION

BUTT HINGE-

S2.05 SCALE: 1 1/2" = 1'-0"



DOOR 7

3/16[™] 2−12 -3/16" PLATE - 1/4"x2" STEEL FLAT _BAR 2-12 / 3/16" L 2"x2"x1/4" FLAT BAR . E 1/4" 2-12 L 2"x2"x1/4" PLATE PAN-PUMP BOX FRAMING TYP AT ALL ANGLE CONNECTION'S *NOTE: DOOR NOT SHOWN DOOR OPENING SECTION SCALE: 3'' = 1' - 0

NOTES

- 1. SEE SHEET G1.02 AND G1.03 FOR GENERAL NOTES, AND SPECIFICATIONS, LEGEND, AND ABBREVIATIONS.
- 2. ALL CONNECTIONS SHALL BE CONTINUOUSLY WELDED UNLESS OTHERWISE NOTED.
- 3. PUMP BOX SHALL BE FROM A36 STEEL.
- 4. PUMP BOX SHALL HAVE A 6" SILL FOR SECONDARY CONTAINMENT AND SHALL BE SEAL WELDED ALL AROUND, AND SHALL BE DRAINED VIA A 1"ø THREADED STEEL DRAIN PLUG.
- 1/4"x2" STEEL 5. PUMP BOX SHALL BE PAINTED PER SPECIFICATION
 - MOUNT ALL EQUIPMENT AND PIPE SUPPORTS TO INVERTED CHANNELS WELDED TO THE BOTTOM OF ENCLOSURE. PROVIDE 6" MINIMUM CLEARANCE UNDERNEATH EQUIPMENT FOR ACCESS TO ALL MOUNTING BOLTS.
 - SEE SHEET S1.02 FOR REINFORCED CONCRETE NOTES AND STRUCTURAL NOTES.

-1/4"x2" STEEL FLAT BAR 1/4"/2-12 SLOT HSS STEEL FOR FLAT BAR PENETRATION DOOR--SECOND DOOR OR FIXED ANGLE FLAT BAR FOR PADLOCK (SEE BELOW) -HSS 1/4" R 6"x6"x1/4" (TOP) 6" LONG PLAN

DOOR--SECOND DOOR OR FIXED ANGLE CONTINUOUSLY WELDED TO TUBE HSS 6"x6"x1/4" 1-1/4"x3/8" THICK FLAT BAR DRILLED OPEN ON FOR PADLOCK. BOTTOM-PROVIDE INDUSTRIAL GRADE CORROSION RESISTANT PADLOCK



¥ TANK FARM PUMP BOX DETAILS

GREG LATREILLE

ANCI 907.£ 3335 AECL

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AUTHORITY

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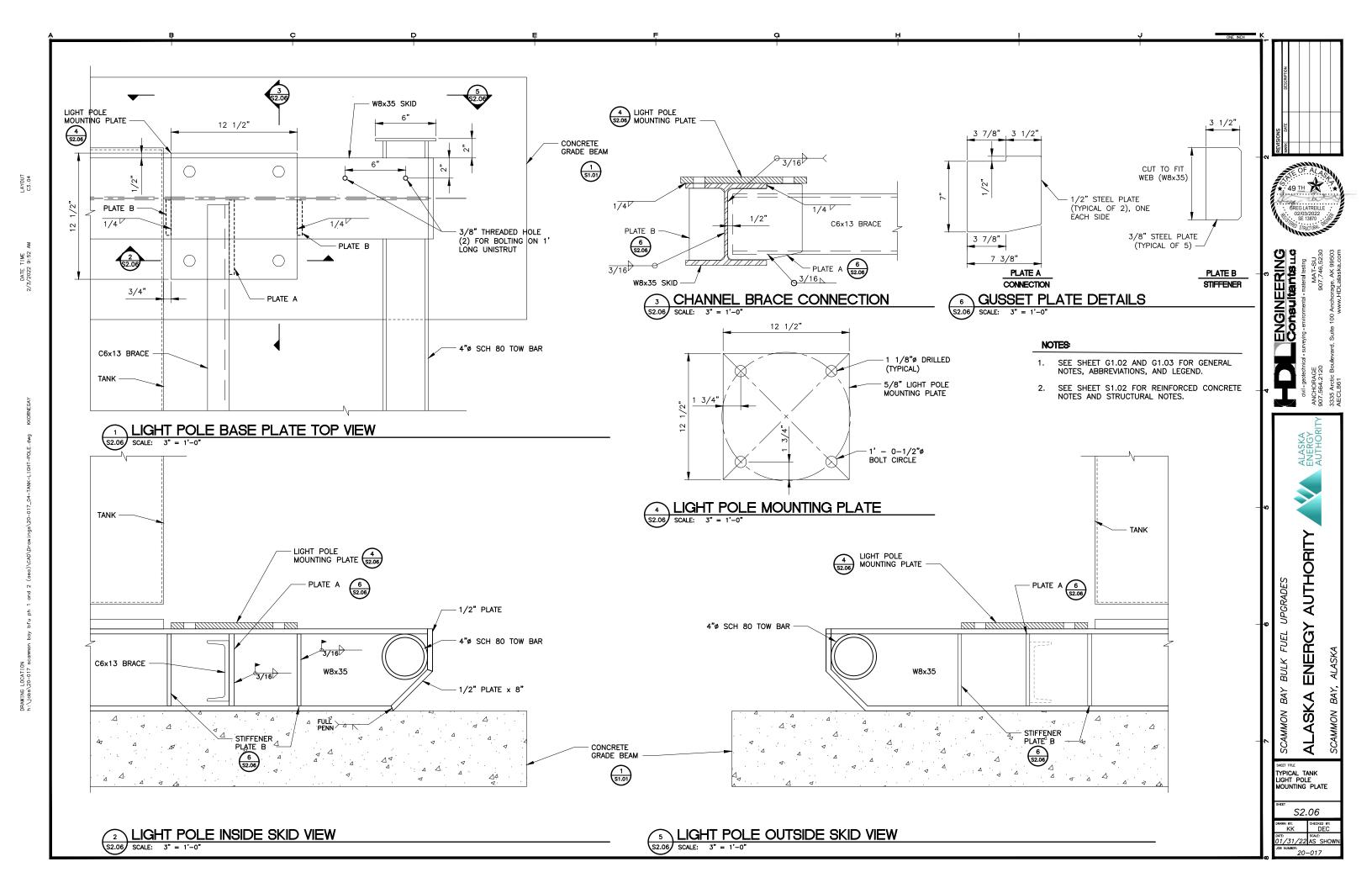
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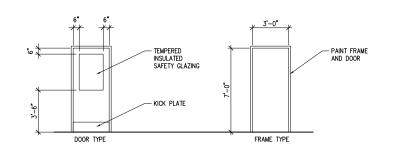
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S2.05 RAWN BY: CHECKED BY:

KK DC NTE: SCALE: NOTE





DOOR ELEVATION

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

SEE DIVISION OB SPECIFICATION SECTION "DOOR HARDWARE" FOR DOOR HARDWARE PRODUCTS BASIS OF DESIGN

MATERIAL AND FINISH LEGEND

EXTERIOR

METAL WALL PANELS: AEP SPAN, PC10-12C COLOR: TO BE SELECTED BY OWNER

METAL ROOF PANELS: AEP SPAN, DESIGN SPAN hp COLOR: TO BE SELECTED BY OWNER

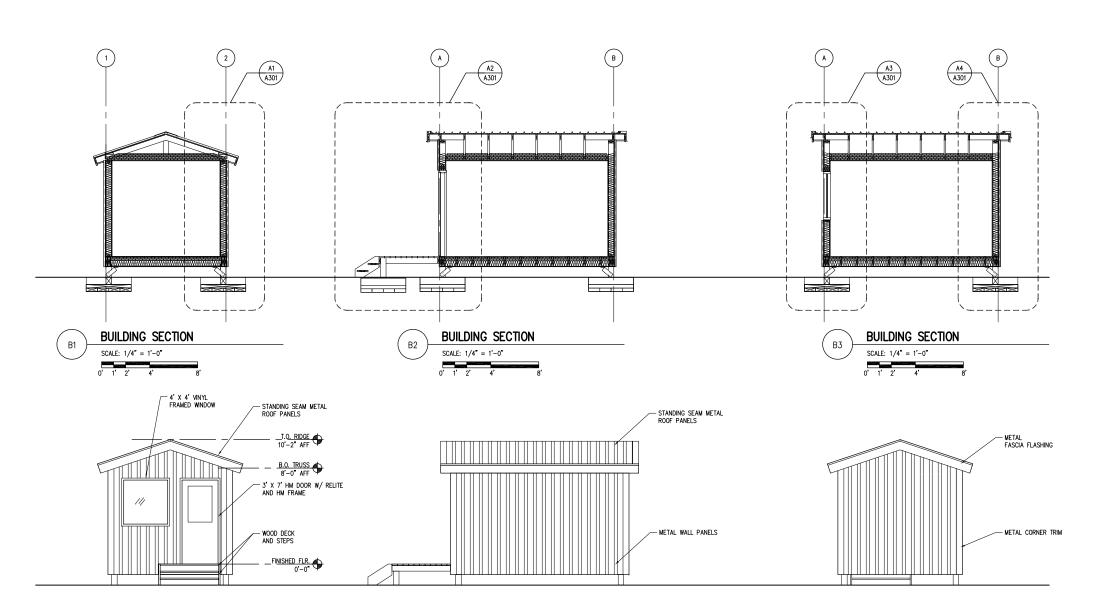
METAL FLASHING: COLOR TO MATCH ADJACENT PANEL

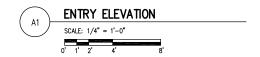
EXTERIOR PAINT EP1 (HOLLOW METAL DOOR & FRAME) SHERWIN WILLIAMS COLOR: TO BE SELECTED BY OWNER

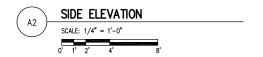
GLAZING: PROVIDE TEMPERED, INSULATED SAFETY GLAZING AT DOOR RELITE SEE DIVISION 08 SECTION "GLAZING."

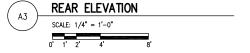
INTERIOR PAINT P1 (FIELD OF WALL) COLOR: TO BE SELECTED BY OWNER

INTERIOR PAINT P2 (FLOOR) COLOR: TO BE SELECTED BY OWNER









BULK BAY

ENGINEERING Consultantsuc

ALASKA ENERGY AUTHORI

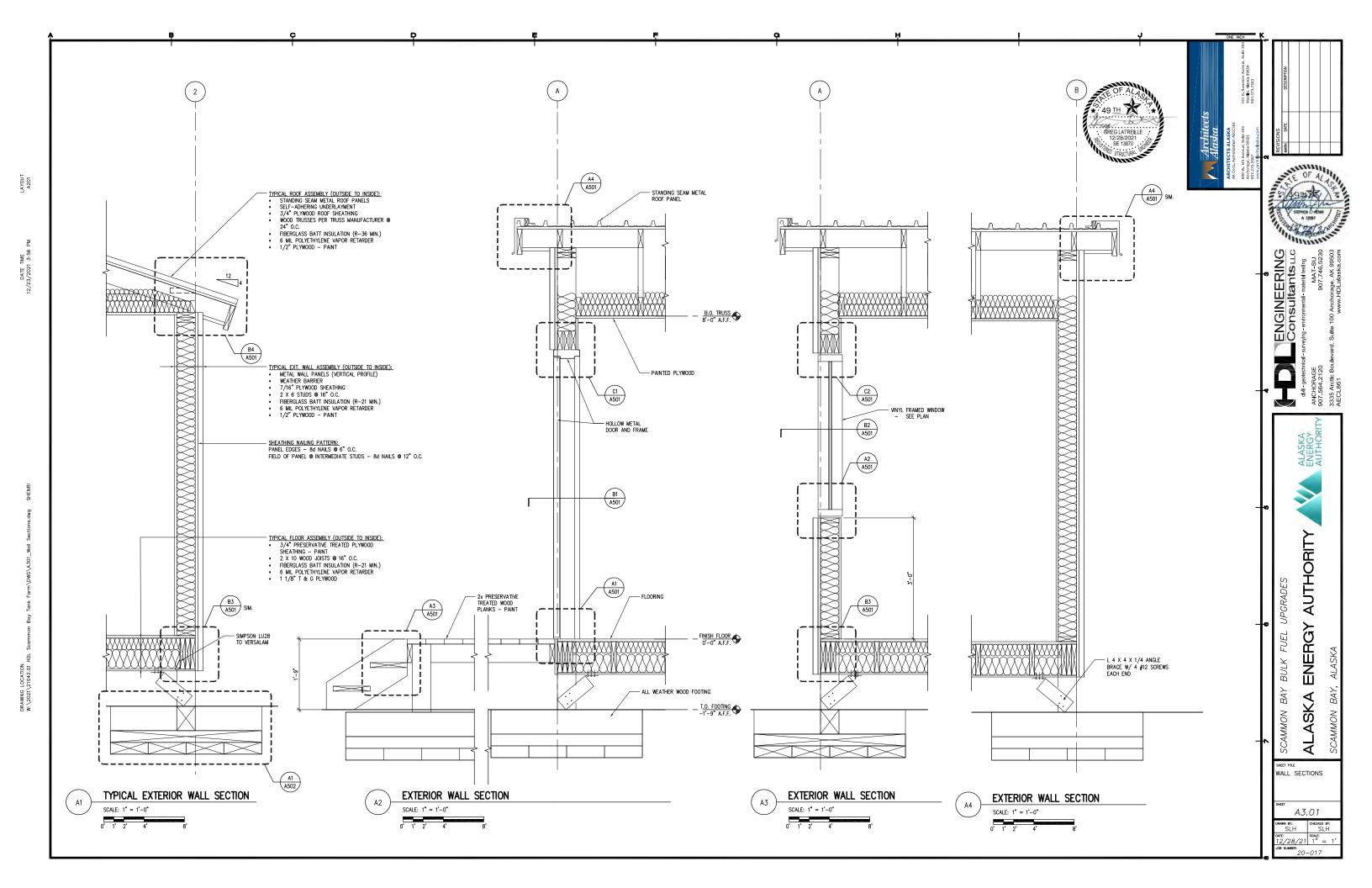
AUTHORITY

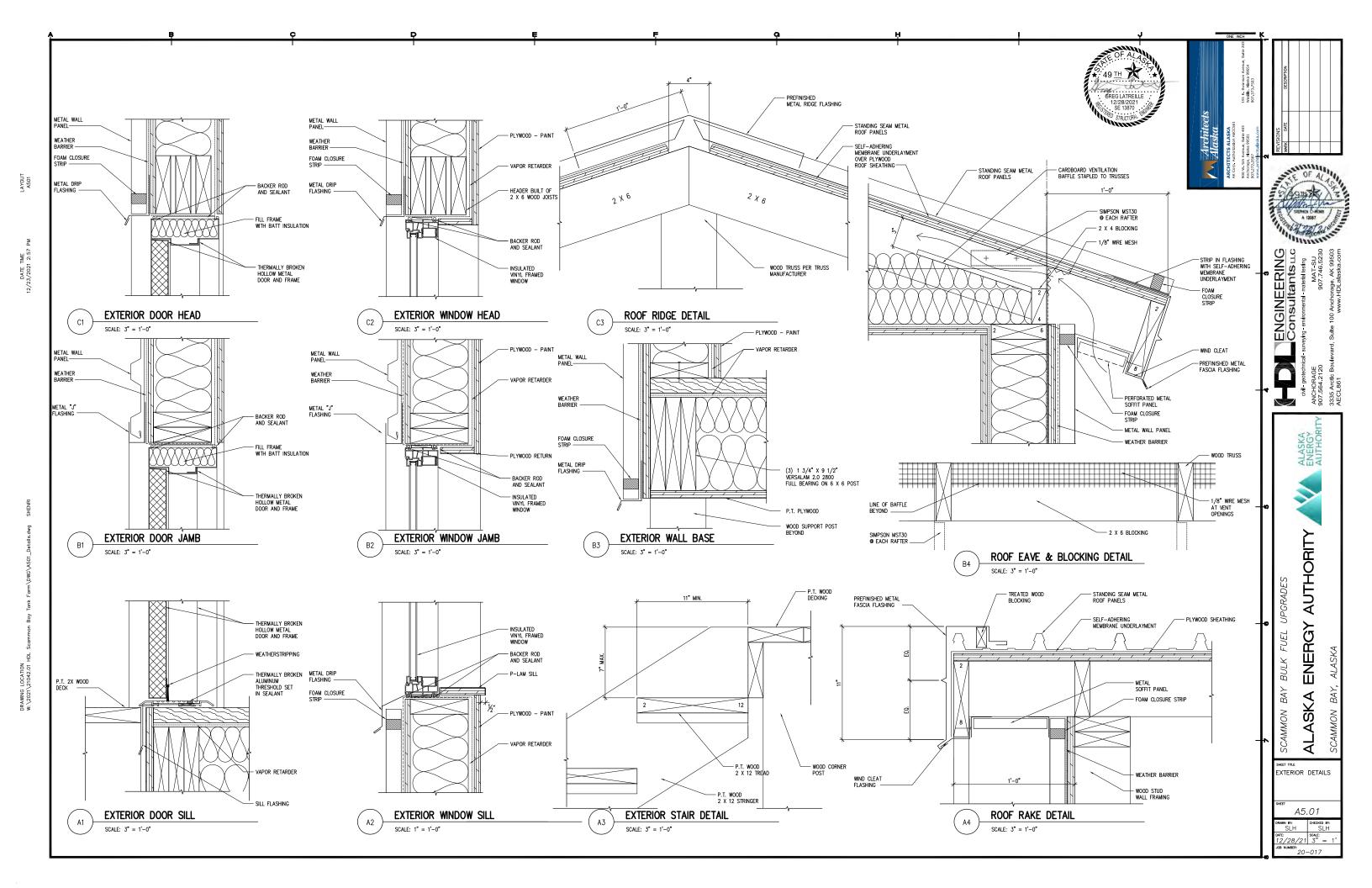
ENERGY

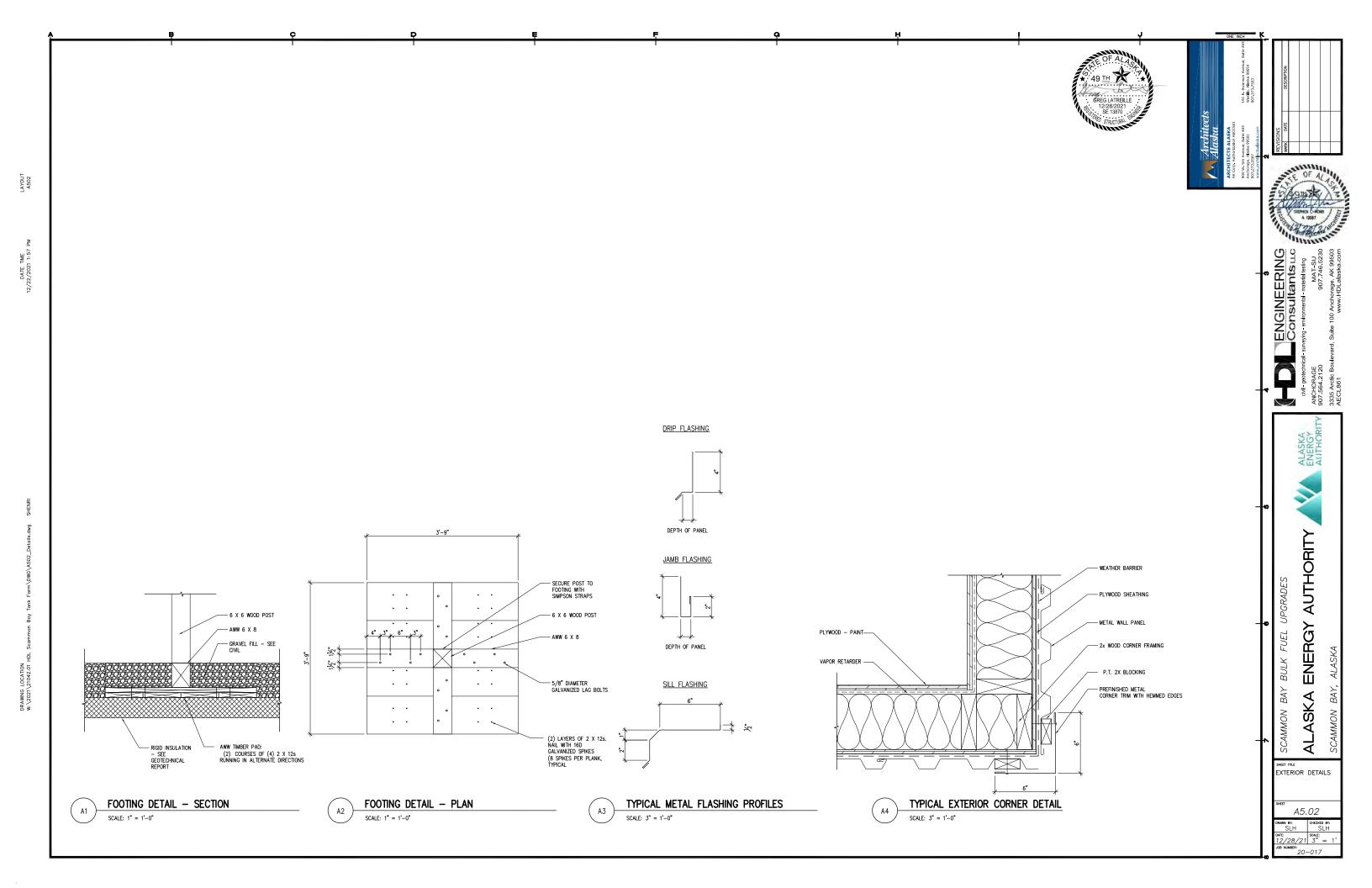
ASKA

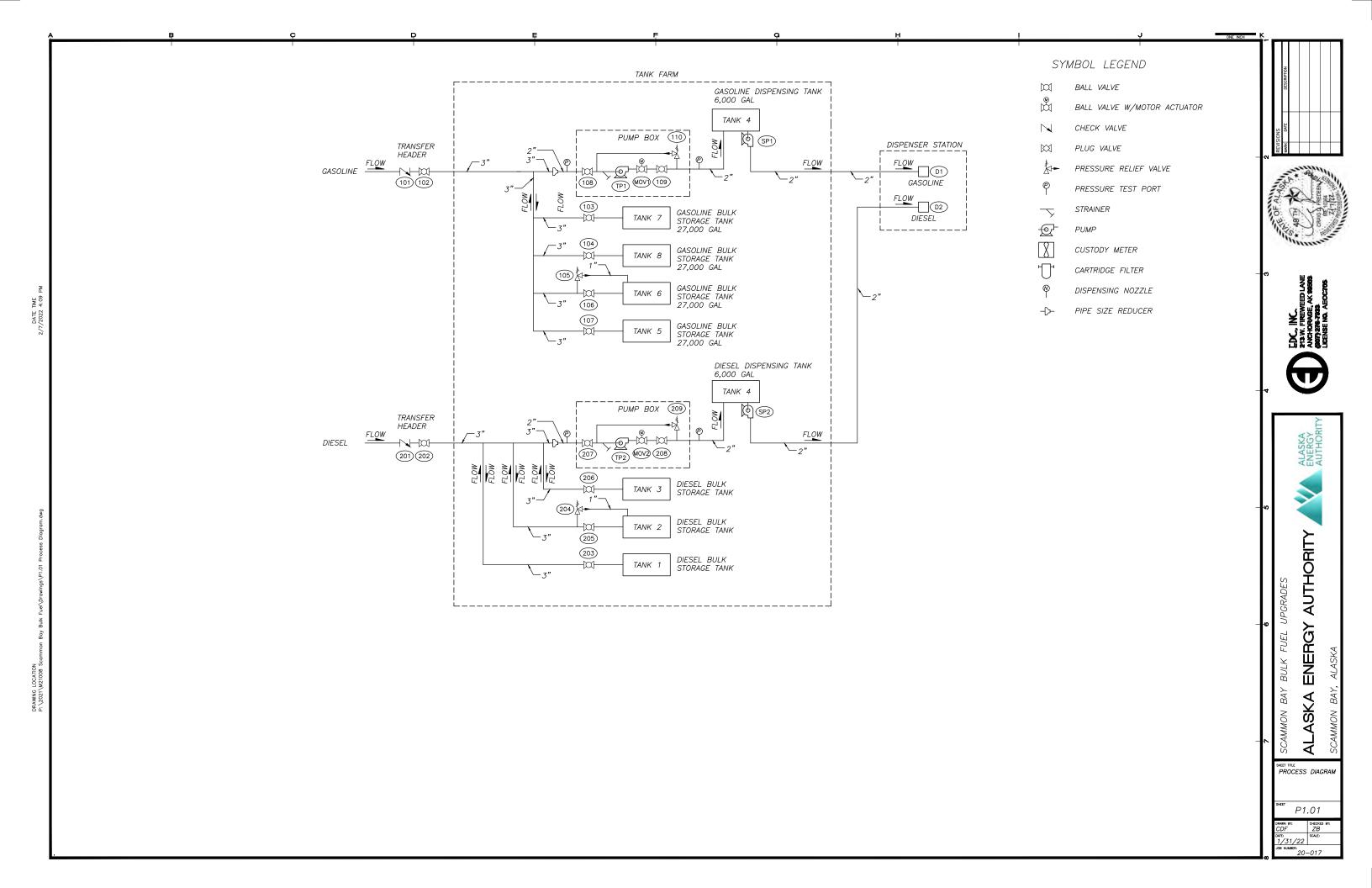
A F EXT ELEVATIONS BUILDING SECTIONS & FINISH LEGEND

A2.01 DATE: SCALE: 12/28/21 1/4" = JOB NUMBER: 20-017









ELECTRICAL LEGEND

SYMBOL	DESCRIPTION							
	EXPOSED CONDUIT							
	UNDERGROUND CONDUIT							
ΘŢ	3/4" X 10' COPPER CLAD STEEL GROUND ROD							
⊸ —	CONDUIT RUN - CHANGE IN ELEVATION							
\sim	LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT							
0	JUNCTION BOX OR FITTING							
-x _y -	MOLDED CASE CIRCUIT BREAKER, X = AMPERE RATING, Y = NO. OF POLES							
— UE —	UNDERGROUND ELECTRIC							
—он/е—	OVERHEAD ELECTRIC							
(A)	KILOWATT-HOUR METER							
Ŧ	THERMOSTAT							
\$	20A, 120V, SINGLE POLE SWITCH (SPST)							
П	PANELBOARD							
®	20A, 120V, GFI DUPLEX RECEPTACLE NEMA 5-20R							
φ	20A, 120V DUPLEX RECEPTACLE NEMA 5-20R							
0	MOTOR, SINGLE PHASE							
Ճ	COMBINATION MOTOR STARTER							
짣	FUSED DISCONNECT SWITCH							
_h	NON-FUSIBLE DISCONNECT SWITCH							
×	MOTORIZED VALVE							
01	THER SYMBOLS ARE AS DEFINED BY NOTE.							

(XX YY	INSTRUMENT IDENTIFIER								
	XX = FUNCTION / YY = LOOP								
ESD	EMERGENCY SHUTDOWN								
LSH	LEVEL SWITCH HIGH								
LSHH	LEVEL SWITCH HIGH HIGH								
LSL	LEVEL SWITCH LOW								
MOV	MOTOR OPERATED VALVE								

CIRCUIT AND DEVICE LEGEND

GROUP OR EQUIPMENT IDENTIFICATION.

"A" DENOTES PANEL NAME

"1" DENOTES CIRCUIT NUMBER

"a" DENOTES SWITCH LEG AS INDICATED.

SWITCH IDENTIFICATION.

"3" DENOTES SWITCH CONFIGURATION

"a" DENOTES SWITCH LEG AS INDICATED.

ABBREVIATIONS

3PDT THREE POLE, DOUBLE THROW

ANALOG SIGNAL, AMPERE

AFF ABOVE FINISH FLOOR

ALUMINUM ΑI

AVEC ALASKA VILLAGE ELECTRIC COOPERATIVE

BCU BARE COPPER

C CONDUIT OR CONDUCTOR

C1D1 CLASS I, DIVISION 1, GROUP D

C1D2 CLASS I, DIVISION 2, GROUP D

CCT COLOR CORRECTION TEMPERATURE CP CONTROL PANEL

CU COPPER

DIGITAL SIGNAL

DPDT DOUBLE POLE, DOUBLE THROW

EMERGENCY Ε

(E) EXISTING

EXP EXPLOSION PROOF (HAZARDOUS AREA)

FULL LOAD AMPERES

FS FLOW SWITCH

GROUND CONDUCTOR G

GFI GROUND FAULT INTERRUPTING

GRC GALVANIZED RIGID (STEEL) CONDUIT

HOA HAND-OFF-AUTO

HL HIGH LEVEL

HORSEPOWER

KILO-VOLT-AMPERES

LIQUID TIGHT FLEXIBLE CONDUIT (METALLIC) LTF

NEW

N.I.C. NOT IN CONTRACT

NORMALLY CLOSED

NO NORMALLY OPEN

PH PHASE

SIG SIGNAL

SP SPACE

SINGLE POLE, SINGLE THROW SPST

STL STEEL

SS STAINLESS STEEL

TO BE DETERMINED

TSP TWISTED SHIELDED PAIR

TWSH TWISTED WIRE SHIELDED

TYP TYPICAL

UON UNLESS OTHERWISE NOTED

VOLTS

WATTS. WIRF

WEATHERPROOF

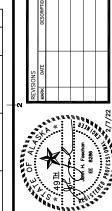
TRANSFORMER ZS LIMIT SWITCH

GENERAL NOTES

- 1. ALL ELECTRICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH ALL REQUIREMENTS OF THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE, STATE, MUNICIPAL, AND FEDERAL LAWS, AMENDMENTS AND/OR ORDINANCES GOVERNING THE PROJECT. IF DIRECT CONFLICT ARISES BETWEEN DESIGN DOCUMENTS AND GOVERNING CODES, LAWS, AND/OR ORDINANCES, THE CODES, LAWS, AND/OR ORDINANCES SHALL HAVE JURISDICTION AND THE WORK IN QUESTION SHALL BE INSTALLED ACCORDING TO THE CODES, LAWS, AND/OR ORDINANCES. ALL WORK SHALL BE PERFORMED BY OR UNDER THE SUPERVISION OF A STATE OF ALASKA LICENSED JOURNEYMAN ELECTRICIAN.
- 2. MATERIALS AND EQUIPMENT SHALL BE COMMERCIAL GRADE AND ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION AS SUITABLE FOR THE USE INTENDED. ALL ELECTRICAL EQUIPMENT SHALL INCLUDE THE SEAL OF NATIONAL TESTING LABORATORY RECOGNIZED BY THE STATE OF ALASKA FOR THE PURPOSE FOR WHICH IT IS INSTALLED. WHENEVER POSSIBLE, SIMILAR ITEMS SHALL BE SUPPLIED BY THE SAME MANUFACTURER THROUGHOUT THE PROJECT.
- 3. COORDINATE AND PROVIDE EQUIPMENT WITH THE SHORT CIRCUIT CURRENT RATING (SCCR) FOR THE AVAILABLE FAULT CURRENT AT THE POINT OF THE SYSTEM WHERE INSTALLED. PROVIDE FAULT CURRENT LABELS ON ALL SERVICE FOUIPMENT PER NEC ARTICLE 110.24 REQUIREMENTS
- 4. PROVIDE ARC-FLASH HAZARD WARNING LABELS ON ALL PANELBOARDS AND SIMILAR EQUIPMENT PER NEC ARTICLE
- 5. DIMENSIONS OF EQUIPMENT ARE APPROXIMATE. INSTALLATION SHALL BE VERIFIED BASED ON ACTUAL MANUFACTURER'S DATA AND SHOP DRAWINGS.
- 6. ALL SITE WORK AND UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS. VERIFY ALL INSTALLATIONS PRIOR TO COMMENCEMENT OF WORK. COORDINATE ALL WORK WITH UTILITIES AS REQUIRED.
- 7. ALL SINGLE PHASE BRANCH CIRCUITS SHALL BE 3/4"C, 3#12, AND ALL THREE PHASE BRANCH CIRCUITS SHALL BE 3/4"C, 4#12, UNLESS OTHERWISE NOTED. ALL CIRCUITS SHALL HAVE GROUND CONDUCTOR
- 8. CONTRACTOR SHALL SUBMIT REQUEST FOR SUBSTITUTION IN WRITING TO THE ENGINEER.
- 9. PROVIDE SEISMIC SUPPORT AND DESIGN PER IBC REQUIREMENTS.
- 10. WHERE EXISTING UNDERGROUND UTILITIES ARE SHOWN ON THE PLANS, MULTIPLE PARALLEL LINES MAY BE ENCOUNTERED IN THE SAME TRENCH OR GENERAL AREA. SINGLE LINES WERE SHOWN FOR CLARITY.
- 11. CAUTION ELECTRICALLY CLASSIFIED (HAZARDOUS) AREAS EXIST ON THE PROJECT. INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC AS OUTLINED IN ARTICLES 500 THRU 504, 513 AND 514 AS APPLICABLE.
- 12. IN ALL LOCATIONS WHERE CONDUIT RUNS TRANSITION FROM BELOW GRADE TO ABOVE GRADE PROVIDE A SECTION OF LTF WITH AN INSTALLED BEND TO ALLOW FOR DIFFERENTIAL

	FIXTURE SCHEDULE									
TYPE	FIXTURE SYMBOL	LAMP SIZE	MOUNTING	DESCRIPTION						
S1	•—	LED 94W	POLE MOUNT AT 30'-0" ABOVE GRADE	AREA FLOODLIGHT, WET LOCATION, 13,200 LUMEN, 120V, LITHONIA CAT# TFX2-LED-40K-MVOLT-IS-DDBXD.						
L1	¤	30W LED		EXPLOSION-PROOF, C1D1 RATED, 120V: EATON #EVLEDCX2C201.						
L2		32W LED		INTERIOR LED WRAP FIXTURE, 4,000 LUMEN, 4,000K CCT, 120V, LITHONIA CAT# LBL4LP840						
EX1	-	69W LED	WALL MOUNT ABOVE DOOR	WALL PACK WITH PHOTOCELL; LITHONIA CSXW LED #CSXW LED-30C-700-40K-T2M-MVOLT-BBW-PE -DBLXD WITH VANDAL GUARD LITHONIA #CSXWVG						
EX2		46W	SURFACE CEILING MOUNT	LED CANOPY LIGHT, 5,443 LUMEN, 4,000K, 120V, LITHONIA CAT#DSXSC-20C-700-40K-T5W-MVOLT-DDBXD.						
EM1	¥	(2)1.5W LED	WALL MOUNT ABOVE DOOR	DAMP LOCATION EXIT SIGN AND EMERGENCY LIGHT WITH NI-CAD BATTERY; LITHONIA #LHQM-LED-R-HO.						
EM2	Y	(1)1.5W LED	WALL MOUNT ABOVE DOOR	WEATHERPROOF REMOTE EMERGENCY LAMP HEAD LITHONIA #ELA-QWP-L0309						

EM2	Y	(1)1.5W LED	WALL MOUNT ABOVE DOOR	WEATHERPROOF REMOTE EMERGENCY LAMP HEAD LITH #ELA-QWP-L0309				
		001	TDOL DANIEL	OOMBONENT OOUEDIN E				
				COMPONENT SCHEDULE				
ITEM	DU 07 110117 40			S SPECIFIED (OR APPROVED EQUAL)				
1	SHOWN.	OV, LED, N	IEMA 4X, ALLEN BE	RADLEY CAT #800HC-QRH10*, WHERE * = LENS TINT AS				
2	BRADLEY CAT #	700-HA33	A1 AND #700-HN1					
3				MA 4X, ALLEN BRADLEY CAT #800HC-QRTH10*, WHERE * = CONTACTS AS REQUIRED.				
4	ALARM HORN, 1	20V, WEAT	HERPROOF, FEDERA	AL #350WB 120.				
5	AND SOLID STA ADDITIONAL AUX #193-ER1D AS	TE, SINGLE (ILIARY ANI REQUIRED.	PHASE, OVERLOAD D OVERLOAD CONT	CTOR WITH 120V COIL, ALLEN BRADLEY CAT #100-C12D10 CRELAY ALLEN BRADLEY CAT #193-ES1BB. PROVIDE WITH ACTS, AND REMOTE OVERLOAD RESET ALLEN BRADLEY CAT				
6			TON, 120V, 10A, N CKS AS REQUIRED.	IEMA 4X, ALLEN BRADLEY CAT #800HC-AR2D1. PROVIDE				
7	ALARM LIGHT, 1	20V, FEDER	RAL ELECTRA FLAS	H #141ST-120R W/ RED LEXAN DOME.				
8	120V, 10A, N.C., NEMA 4X, MUSHROOM HEAD PUSHBUTTON W/ MAINTAINED PUSH-PULL OPERATION, ALLEN BRADLEY CAT#800HC-TFRXT. PROVIDE W/ RED 'EMERGENCY SHUTDOWN' LEGEND PLATE AND CONTACTS AS REQUIRED.							
9	120V, PANEL H	EATER W/	INTEGRAL THERMOS	STAT WATTAGE AS REQUIRED, HOFFMAN SERIES #DAH.				
10	METAL OXIDE	VARISTOR,	GE PART # V130	DLA10A.				
11)	NORMALLY CLOSED PUSHBUTTON, 120V, 10A, NEMA 4X, ALLEN BRADLEY CAT #800HC-AR6D2. PROVIDE ADDITIONAL CONTACT BLOCKS AS REQUIRED.							
12	CAT#194RF-NN	060R24E		60A, 3-POLE W/ PADLOCK PROVISION, ALLEN BRADLEY				
13)	2-POSITION SEL CONTACTS BLOC			4X, ALLEN BRADLEY CAT #800HC-HR2A. PROVIDE				
14)	NEMA 4X, NON-METALLIC ENCLOSURE WITH REMOVABLE STEEL BACK PANEL, INNER DEAD-FRONT HINGED DOOR AND OUTER DOOR. SIZE AS REQUIRED. PROVIDE SWING OUT PANEL KIT. HOFFMAN OR EQUAL.							
(15)	MOUNTED W/BO	X LUGS, S	QUARE D MULTI 9	RATING AND NUMBER OF POLES AS SHOWN, DIN RAIL C60N CLASS 860 SERIES				
16			RELAY, 1.0—100 MII FOR 100 MINUTE	NUTE ON DELAY, 120V, DPDT, ALLEN BRADLEY TIME DELAY.				
17)	POWER DISTRIBU	JTION BLOC	CK, 600V, 335A, 3-	-POLE. ALLEN BRADLEY CAT#1492-PD3163.				
(18)	120V, LED PANE	EL LIGHT H	OFFMAN CAT# EL12	200MS-US.				





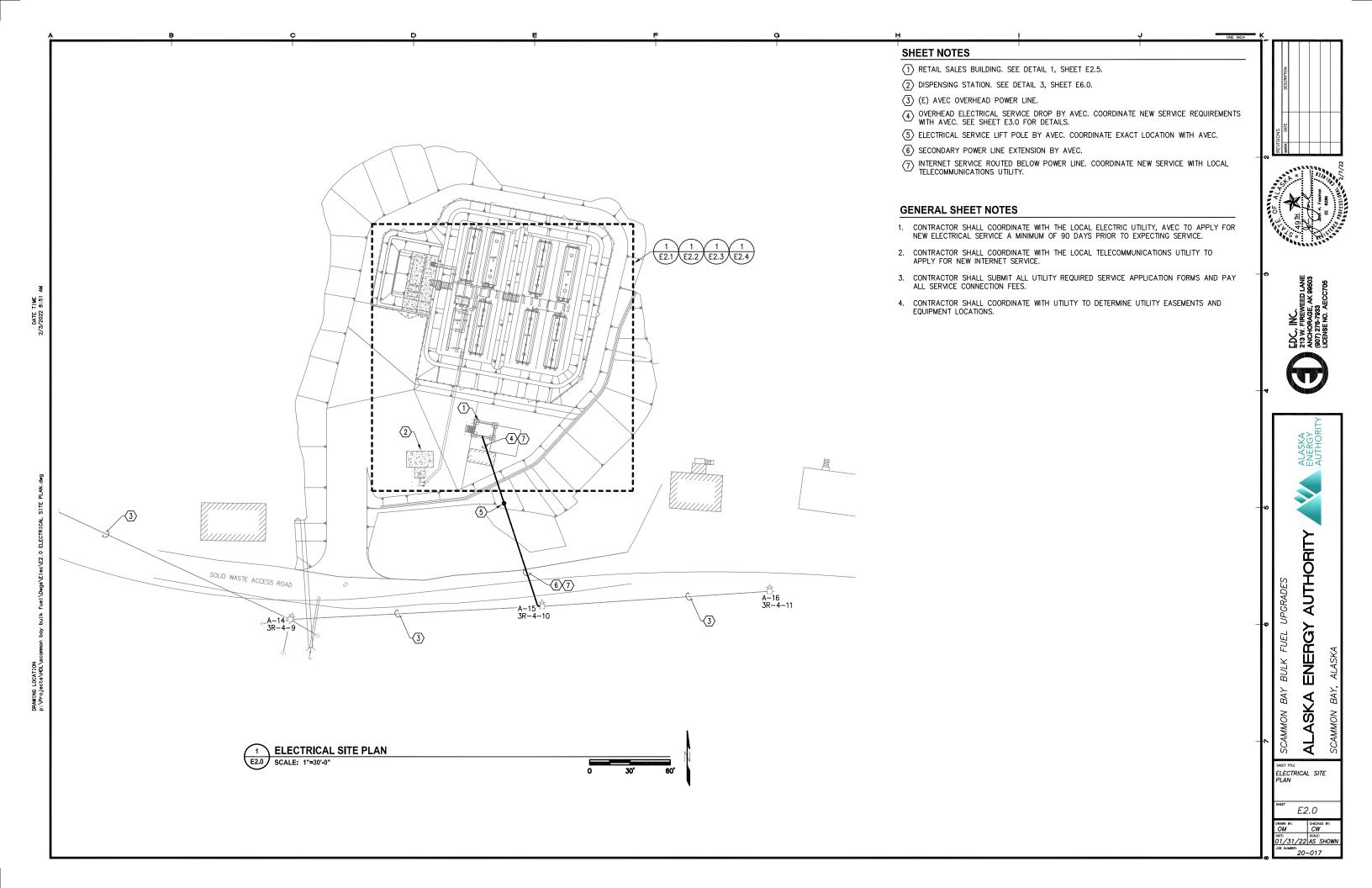


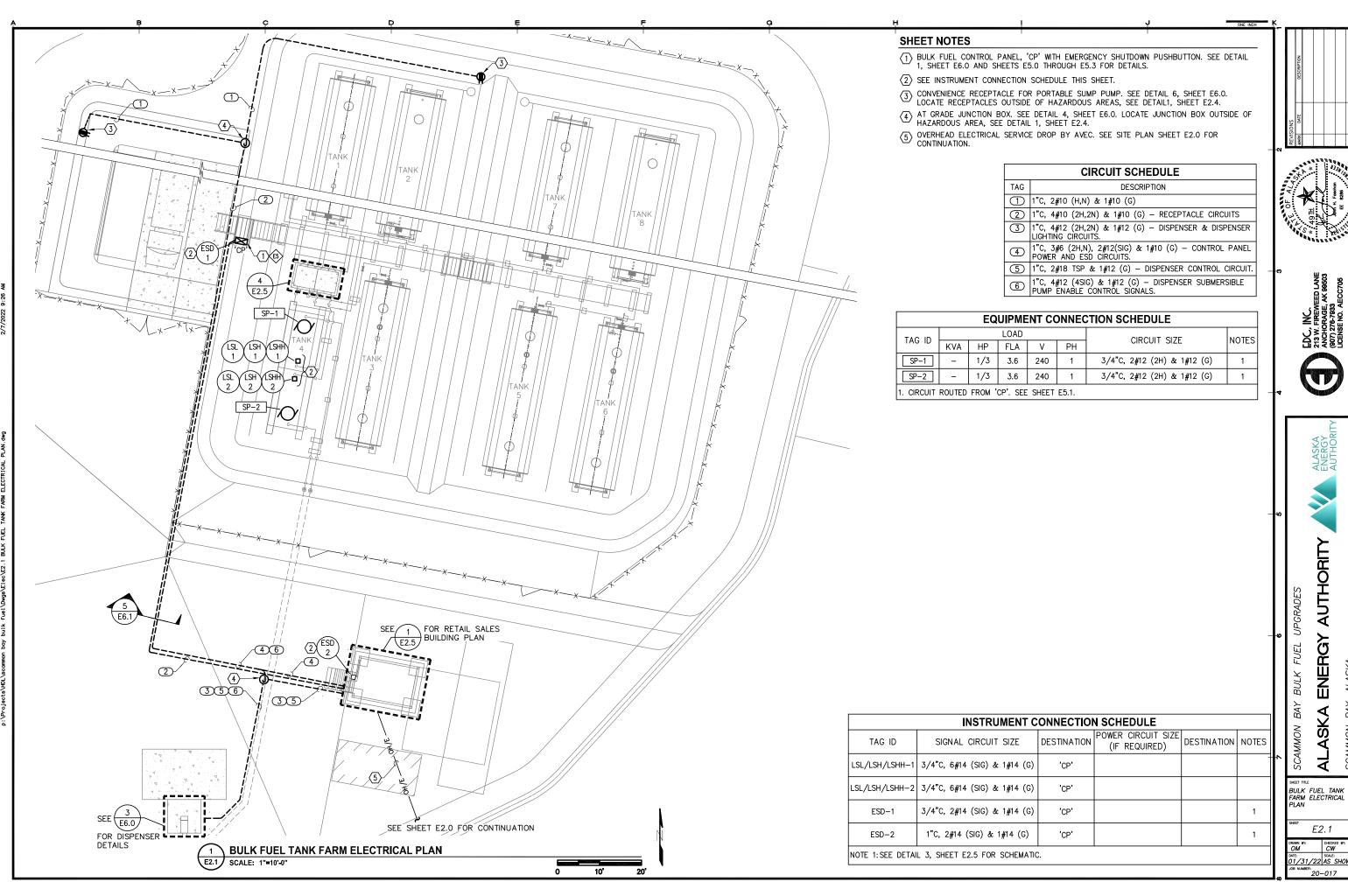


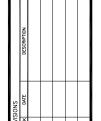
BULK BAY

ELECTRICAL LEGENDS. ABBREVIATIONS AND SCHEDULES

01/31/22 AS SHOW





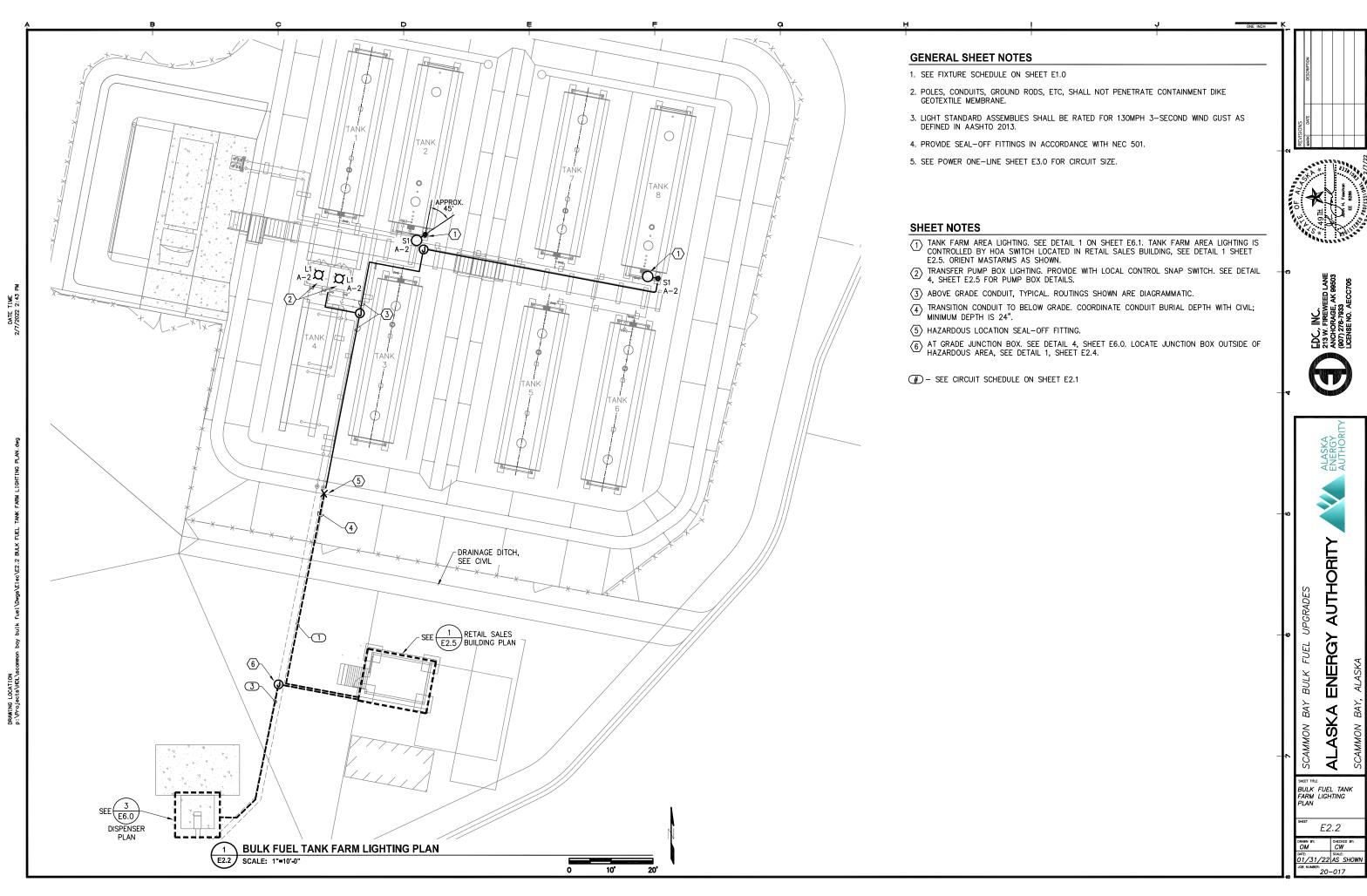




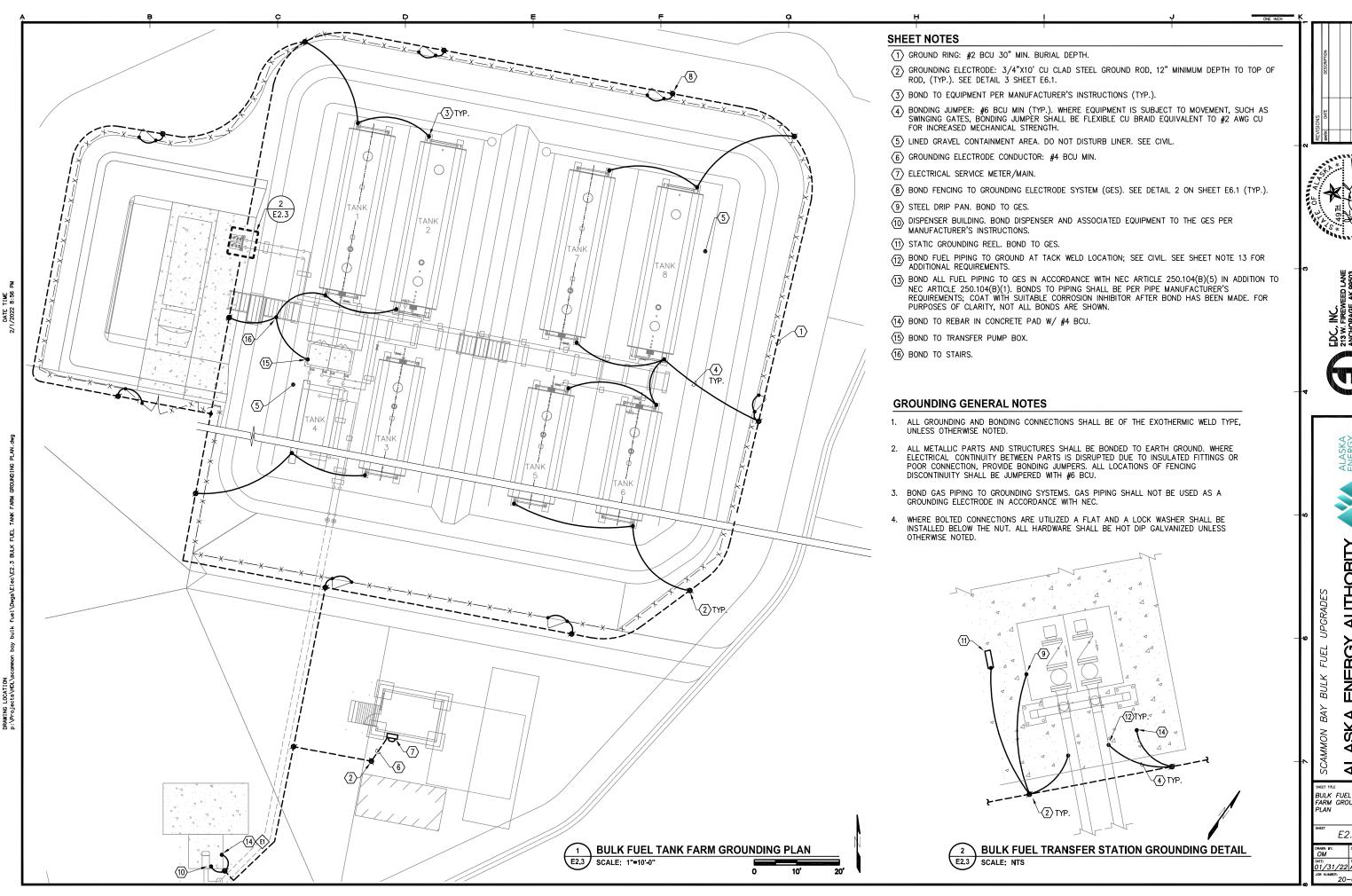




01/31/22 AS SHOW









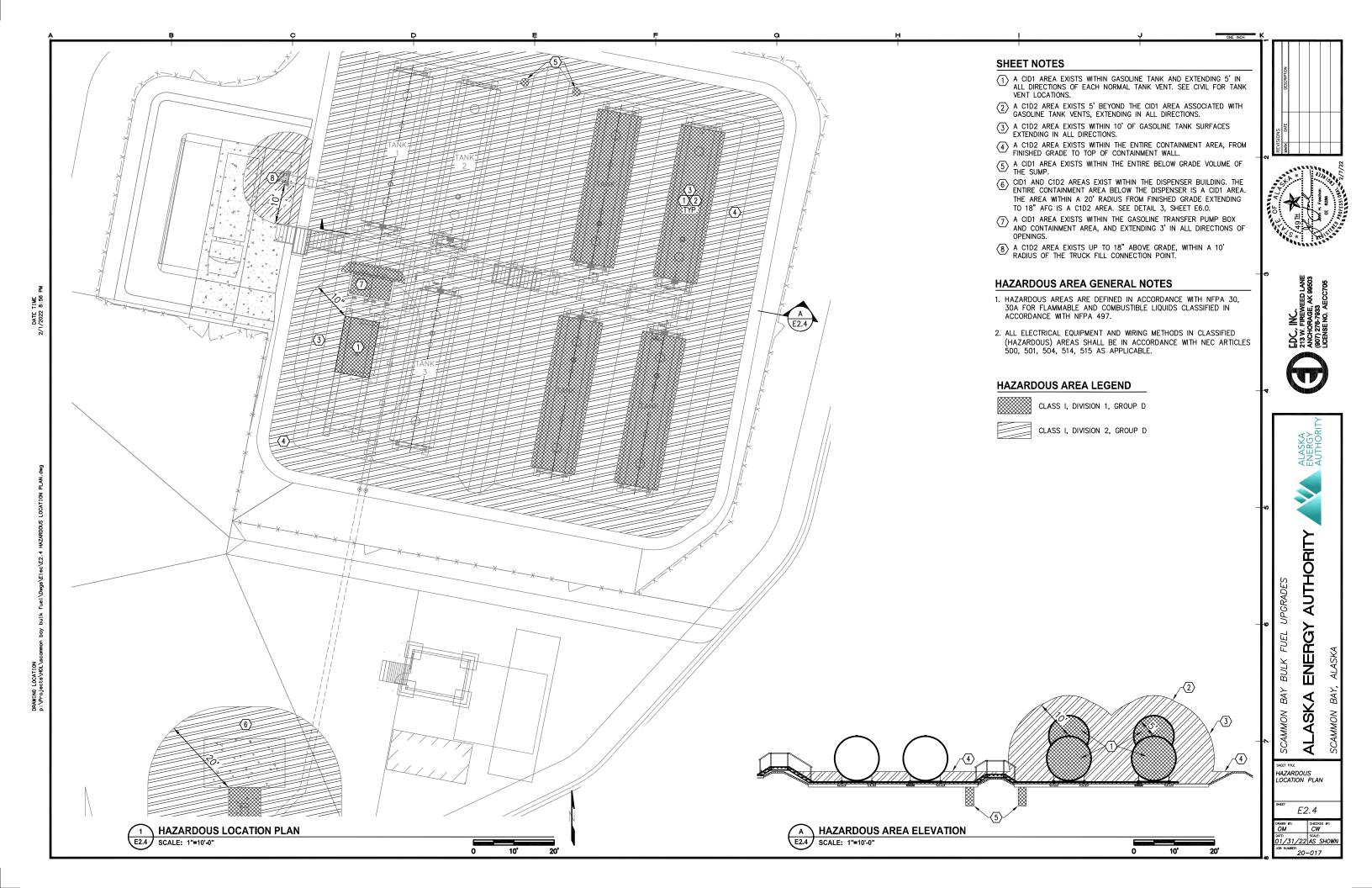


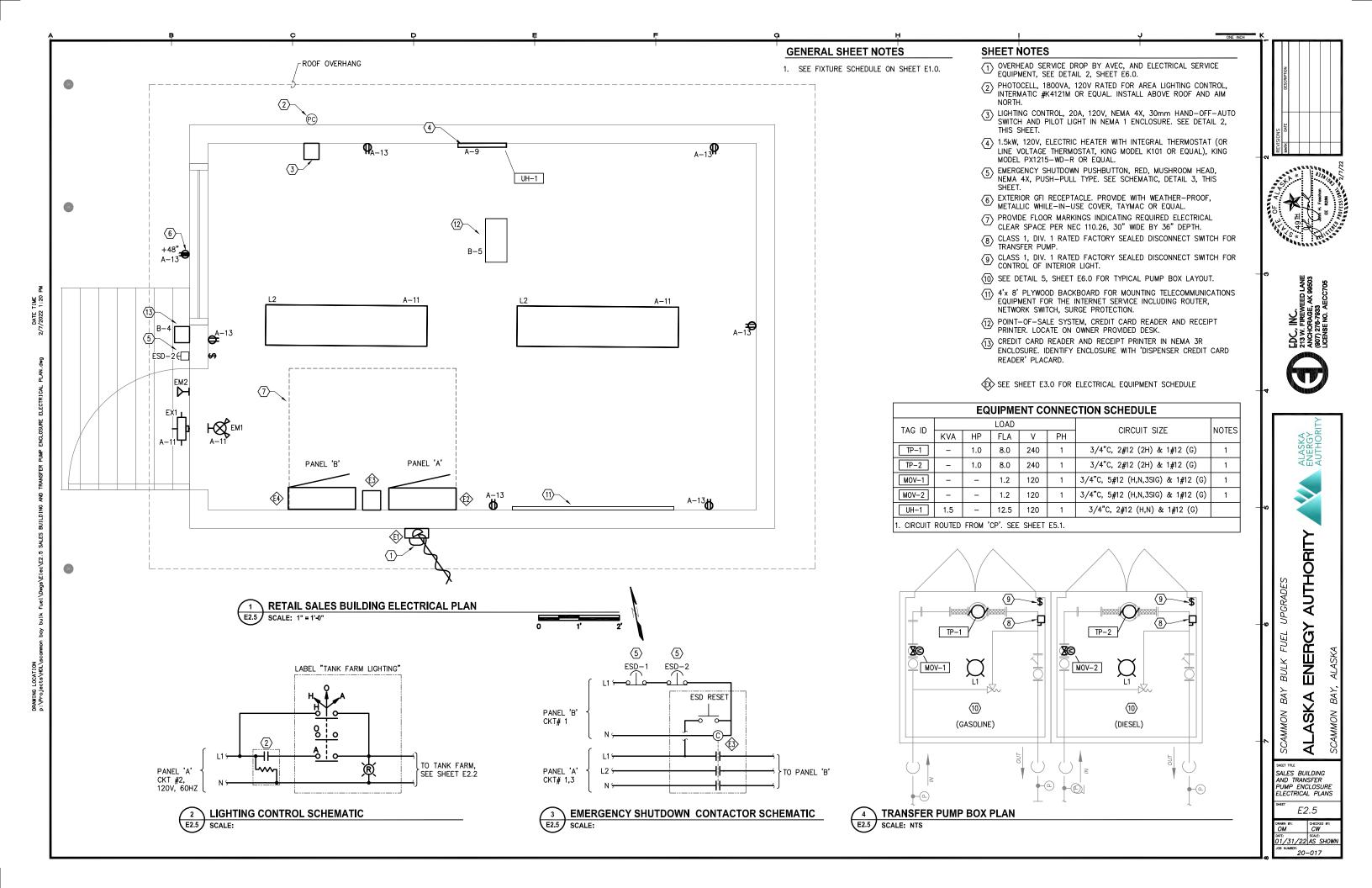


BULK FUEL TANK FARM GROUNDING PLAN

E2.3

01/31/22 AS SHOW





	VOLT:	120/240V		D./	NIE1	IALCO	HEDL	A.I.C. RATING:	10,000)	
	BUS:	225A		P.	AINEL	A 30	HEDU	ENCLOSURE:	NEMA	1	
	MAIN:	200A MCB	LOCA	ATION:	RETAI	L SALE:	S BUILD	ING	MOUNTING:	SURFA	CE
CKT	AMP	LOAD DESCRIPTION	KVA	LOAD	Α	В	LOAD	KVA	LOAD DESCRIPTION	AMP	СКТ
1	100/2	PANEL 'B'	6.6	F	6.9		L	0.3	BULK FUEL FARM LIGHTS	20/1	2
3	100/2	PANEL B	5.1	F		5.1	S	0.0	SPARE	20/1	4
5	20/1	SUMP PUMP RECEPTACLE	1.9	R	1.9		S	0.0	SPARE	20/1	6
7	20/1	SUMP PUMP RECEPTACLE	1.9	R		1.9	S	0.0	SPARE	20/1	8
9	20/1	BUILDING HEATER	1.5	N	1.5						10
11	20/1	BUILDING LIGHTS	0.2	L		0.2					12
13	20/1	BUILDING RECEPTACLES	1.3	R	1.3						14
15						0.0					16
17					0.0						18
19						0.0					20
21					0.0						22
23						0.0					24
25					0.0						26
27						0.0					28
29					0.0						30

11.6 7.2

POWER O
E1.0 SCALE: NTS

POWER ONE-LINE DIAGRAM

TOTAL KVA: 18.8 AMPS: 78.3

		CC	ONNECT	ED KVA	TOTA	NEC%	NEC TOTAL	
SUMMARY BY LOAD TYPE		PHA	PH B	FEED	L KVA	NEC/6	NEC TOTAL	NOTES:
L	LIGHTING	0.3	0.0		0.3	1.25	0.4	
R	RECEPTACLES	3.2	1.9		5.1	10K+50%	5.1	
М	MOTORS	0.0	0.0		0.0	1.00	0.0	
LM	LARGEST MOTOR	0.0	0.0		0.0	1.25	0.0	
С	CONTINUOUS	0.0	0.0		0.0	1.25	0.0	
N	NON-CONTINUOUS	1.5	0.0		1.5	1.00	1.5	
S	SPARE	0.0	0.0		0.0	1.00	0.0	
Χ	NON-COINCIDENT	0.0	0.0		0.0	0.00	0.0	
0	OTHER	0.0	0.0		0.0	1.00	0.0	
F	FEEDER	6.6	5.1		11.7	1.00	11.7	
TOTA	TOTAL KVA (PHASE)		7.0		18.6		7.0	
TOTAL AMPERES		96.7	58.3		77.5		29.1	
PHASI	BALANCE, AB	А-В	B-A			·		
PERCE	NT	62	38					

SHEET NOTES

- PROVIDE CONNECTION TO GROUNDING ELECTRODE SYSTEM (GES). SEE TANK FARM GROUNDING PLAN ON E2.3.
- (2) EMERGENCY SHUTDOWN CONTACTOR. SEE SCHEMATIC, DETAIL 3 ON E2.5.
- $\boxed{3}$ 120/240V, SINGLE-PHASE, 3WIRE, 120kA SURGE PROTECTOR.

	CIRCUIT SCHEDULE									
TAG	TAG DESCRIPTION									
1	1 2"C, 3#3/0 (2H,N)									
(N	2 2°C, 3#3/0 (2H,N) & 1#6 (G)									
3	1-1/2"C, 3#2 (2H,N) & 1#8 (G)									
4	1"C, 3#6 (2H,N) & 1#10 (G)									
5 3/4°C, 2#12 (2H) & 1#12 (G)										
6	3/4"C, 2#12 (H,N) & 1#12 (G)									

ELECTRICAL EQUIPMENT SCHEDULE									
ITEM NO.	DESCRIPTION	MANUFACTURER OR EQUAL							
€ 1>	200A, 240/120V, 1ø, NEMA 3R, 4-JAW, RING TYPE METER/MAIN.	B-LINE CAT# 2M2R							
£2>	225A, 240/120V, 10, NEMA 1, 30-SPACE PANELBOARD W/INTERNALLY MOUNTED 120KA SURGE PROTECTOR.	SQUARE D CAT# NQ30L2C							
⟨ □ (100A, 240V, 3-POLE, NEMA 1, CONTACTOR.	SQUARE D CAT# SFG2V02							
E4>	100A, 240/120V, 1ø, NEMA 1, 18-SPACE PANELBOARD.	SQUARE D CAT #NQ18L1C							
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	BULK FUEL CONTROL PANEL, SIZE AS REQUIRED. SEE E5.0 FOR LAYOUT, AND E5.1 THROUGH E5.3 FOR SCHEMATICS.								

	ELECTRICAL EQUIPMENT SCHEDULE									
ITEM NO.	DESCRIPTION	MANUFACTURER OR EQUAL								
€ 1>	200A, 240/120V, 1ø, NEMA 3R, 4-JAW, RING TYPE METER/MAIN.	B-LINE CAT# 2M2R								
€ 2>	225A, 240/120V, 10, NEMA 1, 30-SPACE PANELBOARD W/INTERNALLY MOUNTED 120kA SURGE PROTECTOR.	SQUARE D CAT# NQ30L2C								
€ 3	100A, 240V, 3-POLE, NEMA 1, CONTACTOR.	SQUARE D CAT# SFG2V02								
E4>	100A, 240/120V, 1ø, NEMA 1, 18-SPACE PANELBOARD.	SQUARE D CAT #NQ18L1C								
(E5)	BULK FUEL CONTROL PANEL, SIZE AS REQUIRED. SEE E5.0 FOR									

VOLT: 120/240V		PANEL 'B' SCHEDULE						A.I.C. RATING: 10,000			
	BUS: 100A		PAINEL B SCHEDULE						ENCLOSURE: NEMA 1		
	MAIN:	100A MLO	LOCA	ATION:	RETAI	LSALES	BUILD	ING	MOUNTING:	SURFA	\CE
CKT	AMP	LOAD DESCRIPTION	KVA	LOAD	Α	В	LOAD	KVA	LOAD DESCRIPTION	AMP	СКТ
1	60/2	BULK FUEL SYSTEM CONTROL	5.0	F	6.4		С	1.4	DISPENSER	15/1*	2
3	60/2	PANEL, 'CP'	5.0	F		5.1	C	0.1	EXTERIOR CREDIT CARD READER	20/1	4
5	20/1	DISPENSER POS CONSOLE	0.1	C	0.2		Г	0.1	DISPENSER LIGHT	15/1*	6
7	20/1	SPARE	0.0	S		0.0	S	0.0	SPARE	20/1	8
9					0.0						10
11						0.0					12
13					0.0						14
15						0.0					16
17					0.0						18

TOTAL KVA:	11.7
AMPS:	48.8

		CONNECTED KVA		TOTA	NEC%	NEC TOTAL		
SUMMARY BY LOAD TYPE		PHA	PH B	FEED	LKVA	INEC/6	NECTOTAL	NOTES:
L	LIGHTING	0.1	0.0		0.1	1.25	0.1	
R	RECEPTACLES	0.0	0.0		0.0	10K+50%	0.0	
M	MOTORS	0.0	0.0		0.0	1.00	0.0	
LM	LARGEST MOTOR	0.0	0.0		0.0	1.25	0.0	
С	CONTINUOUS	1.5	0.1		1.6	1.25	2.0	
N	NON-CONTINUOUS	0.0	0.0		0.0	1.00	0.0	
S	SPARE	0.0	0.0		0.0	1.00	0.0	
Χ	NON-COINCIDENT	0.0	0.0		0.0	0.00	0.0	
0	OTHER	0.0	0.0		0.0	1.00	0.0	
F	FEEDER	5.0	5.0		10.0	1.00	10.0	
TOTAL KVA (PHASE)		6.6	5.1		11.7		2.1	
TOTAL AMPERES		55.0	42.5		48.8		8.9	
PHASE BALANCE, AB		А-В	B-A					
PERCENT		56	44					











AUTHORITY

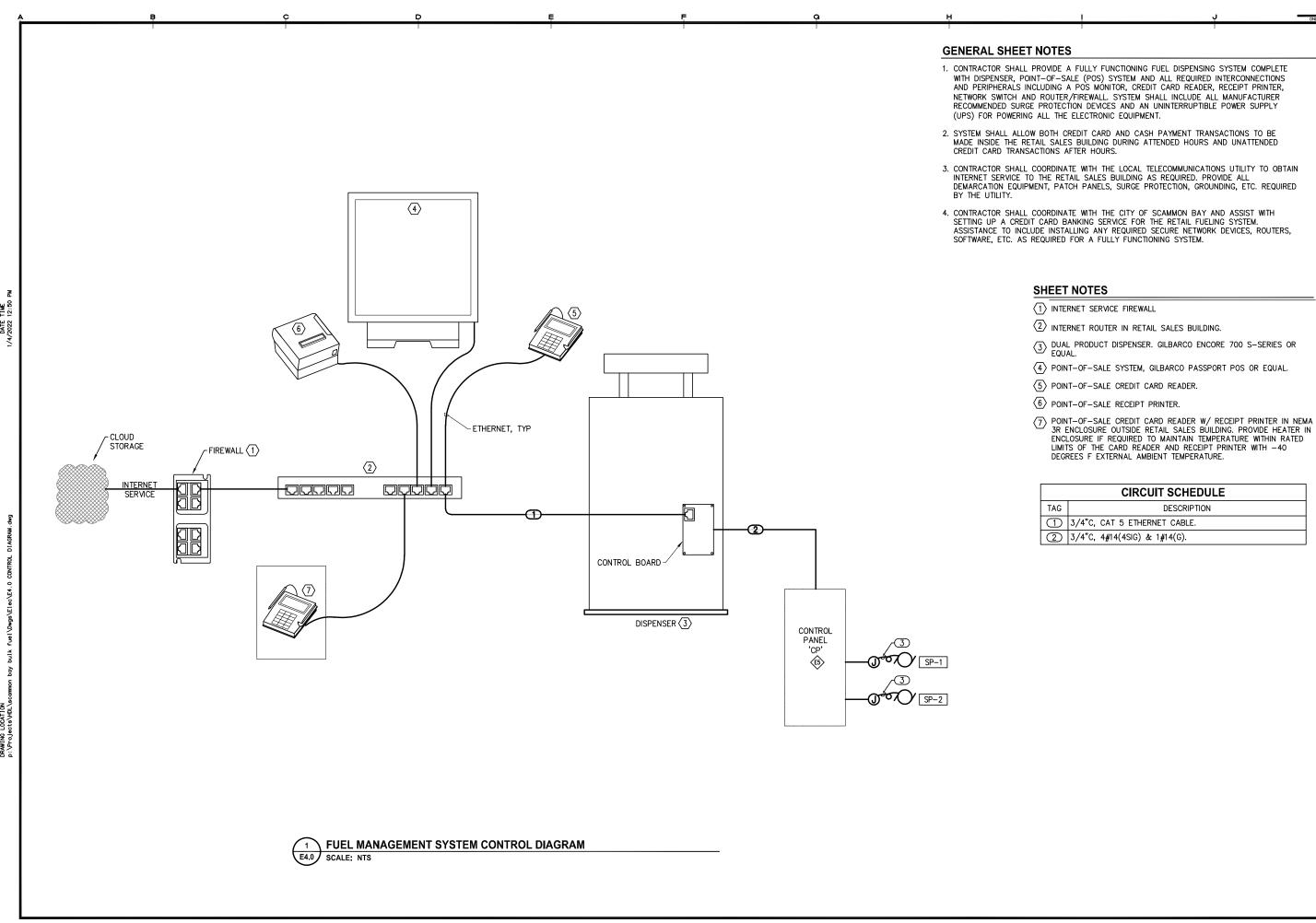
ENERGY ASKA

BULK FUEL SCAMMON BAY

Ą BULK FUEL TANK FARM POWER ONE—LINE DIAGRAM & PANEL SCHEDULE

E3.0

DATE: SCALE: 01/31/22 AS SHOWN JOB NUMBER: 20-017



- 1. CONTRACTOR SHALL PROVIDE A FULLY FUNCTIONING FUEL DISPENSING SYSTEM COMPLETE WITH DISPENSER, POINT-OF-SALE (POS) SYSTEM AND ALL REQUIRED INTERCONNECTIONS AND PERIPHERALS INCLUDING A POS MONITOR, CREDIT CARD READER, RECEIPT PRINTER, NETWORK SWITCH AND ROUTER/FIREWALL. SYSTEM SHALL INCLUDE ALL MANUFACTURER RECOMMENDED SURGE PROTECTION DEVICES AND AN UNINTERRUPTIBLE POWER SUPPLY
- 2. SYSTEM SHALL ALLOW BOTH CREDIT CARD AND CASH PAYMENT TRANSACTIONS TO BE MADE INSIDE THE RETAIL SALES BUILDING DURING ATTENDED HOURS AND UNATTENDED
- 3. CONTRACTOR SHALL COORDINATE WITH THE LOCAL TELECOMMUNICATIONS UTILITY TO OBTAIN INTERNET SERVICE TO THE RETAIL SALES BUILDING AS REQUIRED. PROVIDE ALL DEMARCATION EQUIPMENT, PATCH PANELS, SURGE PROTECTION, GROUNDING, ETC. REQUIRED
- SETTING UP A CREDIT CARD BANKING SERVICE FOR THE RETAIL FUELING SYSTEM. ASSISTANCE TO INCLUDE INSTALLING ANY REQUIRED SECURE NETWORK DEVICES, ROUTERS, SOFTWARE, ETC. AS REQUIRED FOR A FULLY FUNCTIONING SYSTEM.

 - $\ensuremath{\overline{\text{3}}}\xspace$ Dual product dispenser. Gilbarco encore 700 s—series or Equal.
 - 4 POINT-OF-SALE SYSTEM, GILBARCO PASSPORT POS OR EQUAL.
 - 3R ENCLOSURE OUTSIDE RETAIL SALES BUILDING. PROVIDE HEATER IN ENCLOSURE IF REQUIRED TO MAINTAIN TEMPERATURE WITHIN RATED LIMITS OF THE CARD READER AND RECEIPT PRINTER WITH -40

	CIRCUIT SCHEDULE							
TAG	DESCRIPTION							
1	3/4"C, CAT 5 ETHERNET CABLE.							
$\overline{\mathcal{O}}$	3/4"C. 4#14(4SIG) & 1#14(G).							











AUTHORIT

RGY

BULK BAY SKA ₹

CONTROL DIAGRAM

E4.0

CW CHECKED BY DATE: SCALE: AS SHOWN JOB NUMBER: 20-017

