

STANDARD ABBREVIATIONS

@	AT	MCE	MAXIMUM CONSIDERED EARTHQUAKE
Ø	DIAMETER	MFR	MANUFACTURER, MANUFACTURED
AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS	MHW	MEAN HIGH WATER
AC	ASPHALT CONCRETE	MIL	0.001 INCHES
ACI	AMERICAN CONCRETE INSTITUTE	MIN	MINIMUM
AFD	ANCHORAGE FIRE DEPARTMENT	MLLW	MEAN LOWER LOW WATER
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	MOA	MUNICIPALITY OF ANCHORAGE
APPROX	APPROXIMATE	MOTEMS	MARINE OIL TERMINAL ENGINEERING AND MAINTENANCE STANDARDS
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS	MPH	MILES PER HOUR
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	MS4	MUNICIPAL SEPARATE STORM SEWER SYSTEM
AWS	AMERICAN WELDING SOCIETY	N/A	NOT APPLICABLE
AWWA	AMERICAN WATER WORKS ASSOCIATION	NIC	NOT IN CONTRACT
AWWU	ANCHORAGE WATER AND WASTEWATER UTILITY	NO.	NUMBER
		NTS	NOT TO SCALE
		N	NORTH, NORTHING
BLDG	BUILDING	OC	ON CENTER
BM	BENCHMARK	OD	OUTSIDE DIAMETER
BMP	BEST MANAGEMENT PRACTICES	OG	ORIGINAL GROUND
BOT	BOTTOM	OLE	OPERATIONAL LEVEL EARTHQUAKE
BRG	BEARING	OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
C, c	CENTERLINE	%	PERCENT
CB	CATCHBASIN	PCC	PORTLAND CEMENT CONCRETE
CF	CUBIC FOOT(FEET)	PCF	POUNDS PER CUBIC FOOT
CIP	CAST-IN-PLACE	PE	POLYETHYLENE
CLE	CONTINGENCY LEVEL EARTHQUAKE	PERF	PERFORATED
CMP	CORRUGATED METAL PIPE	PG	PROFILE GRADE
CONC	CONCRETE	PI	POINT OF INTERSECTION
CONT	CONTINUED, CONTINUOUS	PIANC	WORLD ASSOCIATION FOR WATERBORNE TRANSPORT INFRASTRUCTURE
COPRI	COASTS, OCEANS, PORTS, AND RIVERS INSTITUTE		
CP	CATHODIC PROTECTION	PL	PLATE
CPEP	CORRUGATED POLYETHYLENE PIPE	PLF	POUNDS PER LINEAR FOOT
CTR	CENTER	POA	PORT OF ALASKA
CY	CUBIC YARDS	POL	PETROLEUM, OIL, AND LUBRICANTS
		PS	PRESTRESSED
°F	DEGREES FAHRENHEIT	PSF	POUNDS PER SQUARE FOOT
DC	DEAD LOAD – COMPONENTS AND ATTACHMENTS	PSI	POUNDS PER SQUARE INCH
DCEM	DESIGN AND CONSTRUCTION PRACTICES MANUAL	PVC	POLYVINYL CHLORIDE
DE	DESIGN EARTHQUAKE	QRH	QUICK RELEASE HOOK
DIA	DIAMETER		
DIM	DIMENSION	R	RADIUS
DSM	DEEP SOIL MIXING	REQD	REQUIRED
DW	DEAD LOAD – WEARING SURFACE AND UTILITIES	RO-RO	ROLL-ON ROLL-OFF
DWG	DRAWING	RO/RO	ROLL-ON ROLL-OFF
		ROW, R/W	RIGHT OF WAY
E	EAST, EASTING	RT	RIGHT
EA	EACH		
EG	EXISTING GROUND	S	SOUTH
EL	ELEVATION	SC	SURVEY CONTROL MONUMENT
ELEV	ELEVATION	SCH	SCHEDULE
EOP	EDGE OF PAVEMENT	SDM	SEISMIC DESIGN MANUAL
ESCP	EROSION AND SEDIMENT CONTROL PLAN	SDR	STANDARD DIMENSION RATIO
EW	EACH WAY	SF	SQUARE FEET
EX, EXST	EXISTING	SI	SYSTEM INTERNATIONAL (METRIC UNITS)
		SQ	SQUARE
FG	FINISH GRADE	SST	STAINLESS STEEL
FT	FOOT (FEET)	STA	STATION
F	FLOWLINE	STD	STANDARD
		STL	STEEL
GA	GAUGE	SWPPP	STORM WATER POLLUTION PREVENTION PLAN
GALV	GALVANIZED		
GR	GRADE	T1	TERMINAL 1
		T2	TERMINAL 2
HDG	HOT DIP GALVANIZED	TESC	TEMPORARY EROSION AND SEDIMENT CONTROL
HDPE	HIGH DENSITY POLYETHYLENE	TOPO	TOPOGRAPHY
HORIZ	HORIZONTAL	TYP	TYPICAL
HSS	HOLLOW STRUCTURAL SECTION		
HT	HEIGHT	UFC	UNIFIED FACILITIES CRITERIA
HTL	HIGH TIDE LINE	UNO	UNLESS NOTED OTHERWISE
ICCP	IMPRESSED CURRENT CORROSION PROTECTION	UPG	UNDERGROUND POWER
ID	INSIDE DIAMETER	USACE	UNITED STATES ARMY CORPS OF ENGINEERS
IE	INVERT ELEVATION	USC	UNITED STATES CODE
IM	IMPERIAL UNITS	USGS	UNITED STATES COAST AND GEODETIC SURVEY
IN	INCH (INCHES)		
		V	VELOCITY
KG	KILOGRAM	VERT	VERTICAL
KLF	KIPS PER LINEAR FOOT		
KSI	KIPS PER SQUARE INCH	W	WEST
		W/	WITH
LB	POUND	W/OUT	WITHOUT
LF	LINEAR FEET	WT	WEIGHT
LRFD	LOAD AND RESISTANCE FACTOR DESIGN		
LT	LEFT		
MAX	MAXIMUM		

CIVIL LEGENDS

GRADING

- 10 - EXISTING MAJOR CONTOUR
- 10 - EXISTING MINOR CONTOUR
- 36.00 EXISTING SURFACE ELEVATION
- 1.00% EXISTING SURFACE SLOPE
- 10 MAJOR CONTOUR
- 10 MINOR CONTOUR
- 36.00 SURFACE ELEVATION
- 1.00% SURFACE SLOPE

STORM

- SD STORM DRAIN PIPE
- SD STORM DRAIN OUTFALL
- STORM DRAIN MANHOLE
- STORM DRAIN CATCHBASIN

POTABLE WATER

- FIRE HYDRANT
- ⊕ WATER LINE VALVE BOX
- ⊖ CAPPED STUBOUT
- DRY STANDPIPE HOSE OUTLET STATION
- W ALL SEASON SHORE TO SHIP WATER SERVICE ASSEMBLY
- 6-OUTLET FLUSH FIRE DEPARTMENT CONNECTION-FREE STAND
- WS WATER SERVICE LINE
- W WATER MAIN

SITE LAYOUT

- EXISTING ASPHALT PAVEMENT
- EXISTING CONCRETE
- EXISTING SHORE ARMOR
- ASPHALT PAVEMENT
- INFILL AREA
- SHORE ARMOR
- GRAVEL SURFACE
- CONCRETE PAD
- ASPHALT JOINT
- BOLLARD
- GUARDRAIL
- ② LAYOUT POINT

SANITARY

- S SANITARY SEWER LINE
- C.O. SANITARY SEWER CLEANOUT

PAVEMENT MARKINGS

- SOLID LANE MARKING
- PRECAST CONCRETE WHEEL STOP
- DASHED LANE MARKING
- PAINTED YIELD MARKING
- NO ACCESS OR CRANE RAIL EXCLUSION AREA
- CROSS WALK MARKING
- ACCESSIBLE PARKING SPACE
- TRAFFIC SIGN

OTHER UTILITIES

- E UNDERGROUND ELECTRICAL - MEDIUM VOLTAGE
- UNDERGROUND CONDUIT
- T UNDERGROUND TELECOMMUNICATION
- OUTDOOR STREET LIGHT
- P PETROLEUM PIPELINE

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65% SUBMITTAL

<p>VERIFY SCALES</p> <p>BAR IS ONE INCH ON ORIGINAL DRAWING</p> <p>IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.</p>		<p>GHD-WSP JV 1400 W. BENSON BLVD, SUITE 400 ANCHORAGE, ALASKA 99503 AK ENGINEERING LICENSE # 197742(GHD) - AECC236(WSP) AK BUSINESS LICENSE # 2164152(GHD) - 113511(WSP)</p>	<p>PORT OF ALASKA</p>		<p>CIVIL</p> <p>ABBREVIATIONS AND LEGEND</p>	<p>PORT OF ALASKA</p> <p>PORT OF ALASKA MODERNIZATION PROGRAM</p> <p>CARGO TERMINAL 1 DESIGN</p> <p>ANCHORAGE, ALASKA</p>																											
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>REV</th> <th>DATE</th> <th>DESCRIPTION</th> <th>BY</th> <th>APVD</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	REV	DATE	DESCRIPTION	BY	APVD																<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>DSGN</td> <td>DR</td> <td>CHK</td> <td>APVD</td> </tr> <tr> <td>AEM</td> <td>DJW</td> <td>AWC</td> <td>VHN</td> </tr> </table>	DSGN	DR	CHK	APVD	AEM	DJW	AWC	VHN	<p>SEAL</p>	<p>HORIZ SCALE:</p> <p>VERT SCALE:</p>	<p>DATE: SEPT 1, 2023</p> <p>SHEET: OF</p>	<p>T1-C-001</p>
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GENERAL CIVIL NOTES

1. THE HORIZONTAL COORDINATE SYSTEM IS LOCATED WITHIN THE LOCAL COORDINATE SYSTEM, ANCHORAGE BOWL 2000 ADJUSTMENT AND THE VERTICAL DATUM FOR THE PROJECT MEAN LOWER LOW WATER (MLLW=0.00'). FOR THE PORT OF ALASKA MODERNIZATION PROGRAM SURVEY CONTROL DRAWING, REFERENCE ANCHORAGE RECORDING DISTRICT PLAT 2015-142.
2. EXISTING GROUND INFORMATION SHOWN IN PLANS REPRESENT DATA FROM MULTIPLE SOURCES. TOPOGRAPHY AT TIME OF CONSTRUCTION WITHIN THE PROJECT LIMITS MAY VARY FROM THAT SHOWN. SOURCES OF BATHYMETRY DATA (GROUND DATA BELOW 0.0' MLLW): SEPTEMBER 2014 USACE SURVEY. SOURCE OF UPLAND TOPOGRAPHY DATA (GROUND DATA ABOVE 0.0' MLLW): FIELD SURVEY CONDUCTED BY CRW ENGINEERING GROUP FROM JULY 12 THROUGH AUGUST 4, 2023.
3. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO BEGINNING CONSTRUCTION. THE PERMITS SHALL BE KEPT AT THE JOB SITE.
4. CONTRACTOR SHALL RECORD SURVEY NOTES AND ALL DEVIATIONS (REDLINES OF AS-BUILT CHANGES) MADE DURING CONSTRUCTION ON A CLEAN SET OF CONSTRUCTION DRAWINGS. REDLINES SHALL INCLUDE HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITIES ENCOUNTERED IN THE FIELD DURING CONSTRUCTION.
5. ALL DIMENSIONS AND ELEVATIONS ARE IN FEET UNLESS OTHERWISE NOTED.
6. CONSTRUCTION TO BE IN ACCORDANCE WITH ALL APPLICABLE REGULATORY REQUIREMENTS AND STANDARDS.
7. ALL CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO AREAS SHOWN ON THE PLANS. WORK BEYOND THESE LIMITS SHALL BE AS DIRECTED BY THE ENGINEER.
8. THE CONTRACTOR SHALL RESTORE ALL AREAS DISTURBED TO A CONDITION EQUAL TO OR BETTER THAN BEFORE CONSTRUCTION TO THE ENGINEER'S APPROVAL.
9. THE CONTRACTOR IS RESPONSIBLE FOR DUST CONTROL. AT THE SITE, DUST SHALL BE PREVENTED THROUGH APPLICATION OF WATER TO EXPOSED DRY GROUND TO PREVENT DUST FROM BEING GENERATED AND BLOWN OFF SITE.

EXISTING UTILITY NOTES

1. LOCATIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES SHOULD BE CONSIDERED APPROXIMATE AND NOT NECESSARILY COMPLETE. VERIFY ACCURACY OF ALL UTILITY LOCATIONS SHOWN, AND FURTHER DISCOVER OTHER UTILITIES NOT SHOWN WHICH MAY BE IMPACTED BY CONSTRUCTION. COORDINATE WITH THE PORT FOR UTILITY LOCATES. OBTAIN THE REQUIRED PERMITS THAT VERIFY THE TRUE AND CORRECT LOCATION PRIOR TO CONSTRUCTION SO AS TO AVOID DAMAGE OR DISTURBANCE. AVOID AND PROTECT ALL UTILITIES DURING CONSTRUCTION.
2. UNDERGROUND AND OVERHEAD ELECTRICAL AND TELECOMMUNICATION LINES (AND POLES) OCCUR WITHIN THE PROJECT AREA. ALL WORK IN CLOSE PROXIMITY TO EXISTING UNDERGROUND AND OVERHEAD LINES (AND POLES) SHALL COMPLY WITH APPLICABLE FEDERAL, STATE, AND LOCAL STATUTES, CODES, AND GUIDELINES, AND THE ELECTRICAL FACILITY CLEARANCE REQUIREMENTS OF THE GOVERNING UTILITY. HAND DIGGING IS REQUIRED WITHIN 2 FEET OF BURIED ELECTRICAL CABLE.

TEMPORARY EROSION & SEDIMENTATION CONTROL (TESC) NOTES

1. PROVIDE / SUBMIT A STORMWATER POLLUTION PREVENTION PLAN FOR REVIEW AND APPROVAL. CONSTRUCT, MAINTAIN, REPLACE, AND UPGRADE TESC BMP FACILITIES AS NECESSARY UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED.
2. THE CONTRACTOR SHALL CARRY OUT EROSION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH APPLICABLE PERMITS AND REGULATORY REQUIREMENTS, INCLUDING THE PORT OF ALASKA'S MS4 PERMIT (PERMIT NO. AKS-052426). ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED BY THE CONTRACTOR AND INSPECTED BY THE ENGINEER PRIOR TO THE BEGINNING OF EARTHWORKS.
3. THE CONTRACTOR SHALL INSPECT EROSION AND SEDIMENT CONTROL MEASURES ON A DAILY BASIS AND BEFORE AND AFTER HEAVY PRECIPITATION EVENTS AND REPAIR AS NECESSARY. MODIFY AND MAINTAIN AS REQUIRED. CONTRACTOR RESPONSIBLE FOR MANAGING/MAINTENANCE OF EROSION CONTROL.
4. ENSURE THE SYSTEM DISCHARGE COMPLIES WITH STORMWATER DISCHARGE REGULATIONS. ENGINEER RESPONSIBLE FOR REVIEW OF CONTRACTOR'S STORMWATER MANAGEMENT PLAN. CONTRACTOR RESPONSIBLE FOR ALL DISCHARGE TESTING AND VARIANCE REPORTING.

EXCAVATION, FILL, & BACKFILL NOTES

1. LOCATION OF EXCAVATION, FILL AND BACKFILL IS SHOWN ON THE DRAWINGS, OR AS DIRECTED BY THE ENGINEER.
2. CONTRACTOR SHALL REMOVE ORGANIC MATERIAL, MUCK, OR ANY OTHER UNSUITABLE MATERIAL FROM THE SUBGRADE TO A DEPTH AS SHOWN ON DESIGN DRAWINGS. CONTRACTOR SHALL NOT USE ORGANIC MATERIAL OR OTHER DELETERIOUS MATERIAL FOR BACKFILL, UNLESS DIRECTED BY THE ENGINEER.
3. CONTRACTOR MAY NOT PUMP OR OTHERWISE DIVERT WATER RESULTING FROM CONTRACTOR'S DEWATERING EFFORT DIRECTLY INTO EXISTING STORM DRAINS OR WATERBODIES UNLESS REQUIRED PERMITS ARE OBTAINED BY CONTRACTOR. UNDER NO CIRCUMSTANCES IS THE CONTRACTOR ALLOWED TO DIVERT WATER FROM THE EXCAVATION ONTO THE ROADWAYS. CONTRACTOR SHALL PROVIDE DISPOSAL SITE FOR EXCESS WATER AND IS RESPONSIBLE FOR SECURING ALL NECESSARY PERMITS AND APPROVALS. CONTRACTOR SHALL PROVIDE COPIES OF PERMITS AND APPROVALS TO THE PORT.
4. ANY BOREHOLE LOG INFORMATION SHOWN ON THESE DRAWINGS IS ABBREVIATED. SEE PORT OF ALASKA MODERNIZATION PROGRAM GEOTECHNICAL EXPLORATION PLAN (MOA/POA) AND ALL ASSOCIATED DOCUMENTS FOR COMPLETE BOREHOLE LOG INFORMATION.
5. ALL EXCAVATED MATERIALS SHALL BE DISPOSED OFFSITE UNLESS OTHERWISE NOTED. OFFSITE DISPOSAL TO BE AT AN APPROVED LOCATION IN ACCORDANCE WITH APPLICABLE REGULATORY REQUIREMENTS.
6. BACKFILLING MATERIAL MUST NOT CONTAIN SHARP OBJECTS, LARGE ROCKS, COMPACTED OR FROZEN EARTH, OR DELETERIOUS MATERIALS.

PAVING AND STRIPING NOTES

1. HOT-MIX ASPHALT PAVEMENT TO BE PROVIDED PER THE PROJECT'S ASPHALT PAVING SPECIFICATION.
2. CONTRACTOR SHALL RESTORE ALL EXISTING PAINTED TRAFFIC MARKINGS IMPACTED BY CONSTRUCTION.
3. STRIPING TO BE IN ACCORDANCE WITH THIS PROJECT'S PAVEMENT MARKING SPECIFICATION, DETAILS, AND DRAWINGS.

STORM DRAINAGE NOTES

1. GRADE SURFACE OF OVER-WATER PIER TO DIRECT STORMWATER RUNOFF TO DECK DRAINS AND SCUPPERS AS SHOWN ON THE PLANS. SLOPE TRESTLES DOWN FROM PIER TO UPLAND AREA. DISTURBED UPLAND AREAS SHALL BE GRADED TOWARD THE WATER BODY FROM EAST TO WEST MATCHING EXISTING DRAINAGE PATTERN.

POTABLE WATER AND DRY FIRE LINE NOTES

GENERAL

1. "BOP" IS DEFINED AS THE OUTSIDE BOTTOM OF PIPE. "INVERT" IS DEFINED AS THE INSIDE BOTTOM OF PIPE.
2. ALL NUTS, BOLTS AND WASHERS SHALL BE STAINLESS STEEL (TYPE 316).
3. AWWU, THE PORT, ANCHORAGE WATER AND WASTEWATER UTILITY, ANCHORAGE FIRE DEPARTMENT (AFD), AND EXISTING CUSTOMERS SHALL BE NOTIFIED A MINIMUM OF 72 HOURS IN ADVANCE OF WATER SERVICE INTERRUPTION. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE TEMPORARY WATER SERVICE TO THE EXISTING CUSTOMERS IF THE OUTAGE EXCEEDS 6 HOURS OR IF DEEMED NECESSARY BY THE ENGINEER. THE CONTRACTOR SHALL SUBMIT A TEMPORARY WATER SERVICE PLAN FOR REVIEW AND APPROVAL. ALL WATER MAINS AND SERVICES SHALL HAVE A MINIMUM OF 10 FEET OF BURY AT ALL POINTS UNLESS SPECIFIED OTHERWISE ON PLANS.
4. THE CONTRACTOR SHALL PROVIDE ALL SETUP AND TEAR DOWN REQUIRED TO FLUSH NEWLY INSTALLED WATER PIPE. CONTRACTOR SHALL COORDINATE WITH THE PORT FOR USE OF EXISTING FIRE HYDRANTS FOR FLUSH WATER. CONTRACTOR SHALL USE AN APPROVED BACKFLOW PREVENT AT HYDRANT CONNECTION. THE CONTRACTOR MUST REQUEST WATER AT LEAST 48 HOURS PRIOR TO FLUSHING. FLUSHING MUST TAKE PLACE PRIOR TO INSTALLATION OF WATER SERVICES. NEW PIPES THAT ARE TO BE LEFT DRY UPON CONCLUSION OF WORK NEED TO BE THOROUGHLY DRAINED AFTER FLUSHING TO PREVENT FREEZING OF RESIDUAL WATER.
5. THE CONTRACTOR SHALL PERFORM HYDROSTATIC TESTING OF ALL NEWLY INSTALLED PIPE SECTIONS. IF PERMANENT AIR VENTS ARE NOT LOCATED AT ALL HIGH POINTS AND DEAD ENDS, THE CONTRACTOR MUST INSTALL AND ABANDON CORPORATION STOPS AT SUCH POINTS.
6. ALL WATER MAIN STATIONING IS PIPE CENTERLINE STATIONING.

BURIED POTABLE WATER

1. ALL CONSTRUCTION SHALL BE INSTALLED AS SPECIFIED IN CONTRACT DOCUMENTS AND THE MOST CURRENT EDITION OF THE AWWU DESIGN AND CONSTRUCTION PRACTICES MANUAL (DCPM).
2. ALL WATER MAINS AND SERVICES SHALL HAVE A MINIMUM OF 10 FEET OF BURY AT ALL POINTS UNLESS SPECIFIED OTHERWISE ON PLANS.
3. MAINTAIN A MINIMUM OF TEN (10) FEET HORIZONTAL AND EIGHTEEN (18) INCHES VERTICAL SEPARATION BETWEEN WATER AND SANITARY OR STORM SEWER MAINS AND SERVICES.
4. MAINTAIN A MINIMUM OF 36-INCHES OF VERTICAL SEPARATION BETWEEN ANY STORM SEWER (STORM DRAIN OR FOOTING DRAIN) AND WATERLINE (MANS OR SERVICES) OR SANITARY SEWER (MANS OR SERVICES). IF 36-INCHES CANNOT BE MAINTAINED, PROVIDE A MINIMUM OF 4-INCH THICK (R-20) INSULATION.
5. WATER MAINS SHALL BE CL52 DUCTILE IRON PIPE WITH RESTRAINED JOINTS AS SHOWN IN THE PLANS, CONFORMING TO THE REQUIREMENTS OF AWWA C151.
6. ALL WATER/SEWER PIPE INSULATION SHALL BE RIGID BOARD, HIGH DENSITY EXTRUDED POLYSTYRENE MIN. 60 P.S.I., FOR UNDERGROUND INSTALLATIONS EQUIVALENT TO R-20 PER FOUR (4) INCH THICK INSULATION.
7. ALL TEES, FIRE HYDRANTS, AND DEAD ENDS SHALL HAVE RESTRAINED FITTINGS. ALL BENDS MUST BE CONSTRUCTED WITH FERRIC FITTINGS AND HAVE RESTRAINED JOINTS AND CONCRETE THRUST BLOCKS.
8. NO PIPE LENGTH LESS THAN 8 FEET SHALL BE INCORPORATED IN THE WATER SYSTEM EXCEPT FOR RESTRAINED FIRE HYDRANT AND VALVE LOCATIONS.
9. WATER MAINS MUST NOT BE ANGLED, BENT OR FLEXED AT BELL AND SPIGOT. ANY NECESSARY DEFLECTION IN PIPE ALIGNMENT SHALL BE ACHIEVED THROUGH THE USE OF FITTINGS AND DEFLECTION COUPLINGS.
10. ALL BEDDING AND BACKFILL SHALL BE COMPACTED TO MINIMUM OF 95% OF MAXIMUM DENSITY.
11. ADJUST HYDRANTS TO FINAL GRADE.

POTABLE WATER AND DRY FIRE LINE NOTES CONT.

EXPOSED POTABLE WATER

1. ALL EXPOSED POTABLE WATER MAIN SHALL BE INSULATED HIGH DENSITY POLYETHYLENE (HDPE) PIPE. A MINIMUM OF 3 INCHES OF URETHANE FOAM THICKNESS SHALL BE PROVIDED BETWEEN THE HDPE WATER PIPE AND AN ALUMINUM OUTER JACKET. THE ENTIRE LENGTH OF WATER PIPE SHALL BE CENTERED WITHIN INSULATED PIPE CROSS SECTION.
2. ALL EXPOSED ARCTIC INSULATED PIPE SHALL BE HEAT TRACED. ARCTIC PIPE SHALL INCLUDE TWO HEAT TRACE CHANNELS WITH SELF LIMITING HEAT TRACE.
3. ALUMINUM OUTER JACKET SHALL BE CLASS 5052-H32 MARINE GRADE ALUMINUM METAL WITH 16-GAUGE (0.60-INCH) WALL THICKNESS WITH SPIRAL LOCKSEAM.
4. INSULATED PIPE SHALL BE MANUFACTURED OFF SITE AND SHIPPED TO THE PROJECT LOCATION. LENGTHS OF MANUFACTURED PIPE SEGMENTS SHALL BE MAXIMIZED TO THE EXTENT POSSIBLE TO MINIMIZE THE NUMBER OF JOINTS IN EACH INSTALLED PIPELINE.
5. ALL HDPE PIPELINES ASSEMBLIES SHALL BE SUCCESSFULLY HYDROSTATICALLY TESTED IN THE PRESENCE OF THE ENGINEER. CONTRACTOR SHALL SUBMIT A TESTING PLAN FOR ENGINEER'S REVIEW AND APPROVAL PRIOR TO CONSTRUCTION. ALL TESTING SHALL BE DONE IN ACCORDANCE WITH RECOMMENDED STANDARDS OF THE PLASTIC PIPE INSTITUTE.
6. HDPE JOINTS SHALL BE BUTT FUSED TO THE MAXIMUM EXTENT POSSIBLE. ELECTRO-FUSION COUPLINGS MAY BE USED UPON SPECIFIC APPROVAL OF ENGINEER. ALL BUTT-FUSING AND ELECTRO-FUSING SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS IN THE PROPER AMBIENT ENVIRONMENT BY QUALIFIED, EXPERIENCED PERSONNEL.
7. ALL PIPING, HANGARS, SEISMIC BRACING, PIPE FITTINGS AND FLEXIBLE PIPING ASSEMBLIES ASSOCIATED WITH THE MANUAL DRY STANDPIPE SYSTEM SHALL BE HOT DIPPED GALVANIZED COATED (DESIGNED TO PROTECT AGAINST SALTWATER AND SALTWATER AIR EXPOSURES) AND DIALECTRIC UNIONS SHALL BE PROVIDED BETWEEN GALVANIZED PIPING AND BRASS HOSE OUTLETS/ HOSE VALVES.

MANUAL DRY STANDPIPE SYSTEM AND APPURTENANCES

1. FOR COORDINATION PURPOSES, REFER TO DRAWING T1-F-001 THROUGH T1-F-501 FOR FURTHER DETAILS OF NEW T1 MANUAL DRY STANDPIPE SYSTEM SCOPE OF WORK AND RELATED PROVISION OF NEW DRY BARREL FIRE HYDRANTS/INTERCONNECTIONS TO EXISTING AND NEW UNDERGROUND WATER DISTRIBUTION PIPING NETWORK AS PART OF THE OVERALL T1 PROJECT SCOPE OF WORK.
2. NEW WORK SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH CODES AND STANDARDS, AS ADOPTED BY THE STATE OF ALASKA AND ANCHORAGE TOWNSHIP, TO INCLUDE THE FOLLOWING:
 - 2.1. TITLE 23 - BUILDING CODES MUNICIPALITY OF ANCHORAGE (MOA), 2018 EDITION
 - 2.2. ANCHORAGE ADMINISTRATIVE CODE, 2018 EDITION
 - 2.3. INTERNATIONAL BUILDING CODE (IBC), 2018 EDITION WITH MOA AMENDMENTS
 - 2.4. INTERNATIONAL FIRE CODE (IFC), 2018 EDITION WITH MOA AMENDMENTS
 - 2.5. NFPA 13, STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS, 2019 EDITION
 - 2.6. NFPA 14, STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS, 2019 EDITION
 - 2.7. NFPA 24 - STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND APPURTENANCES, 2019 EDITION
 - 2.8. NFPA 72 - NATIONAL FIRE ALARM AND SIGNALING CODE, 2019 EDITION, WITH MOA AMENDMENTS
 - 2.9. NFPA 307, STANDARD FOR THE CONSTRUCTION AND FIRE PROTECTION OF MARINE TERMINALS, PIERS AND WHARVES, 2016 EDITION
 - 2.10. NFPA 101 - THE LIFE SAFETY CODE.
3. ALL UNDERGROUND DRY BARREL FIRE HYDRANT PIPING, FITTINGS AND THRUST BLOCKING SHALL BE DESIGNED, INSTALLED, AND TESTED IN ACCORDANCE WITH NFPA 24 - STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES.
4. ALL PIPING, HANGARS, SEISMIC BRACING, PIPE FITTINGS AND FLEXIBLE PIPING ASSEMBLIES ASSOCIATED WITH THE MANUAL DRY STANDPIPE SYSTEM SHALL BE HOT DIPPED GALVANIZED COATED (DESIGNED TO PROTECT AGAINST SALTWATER AND SALTWATER AIR EXPOSURES) AND DIALECTRIC UNIONS SHALL BE PROVIDED BETWEEN GALVANIZED PIPING AND BRASS HOSE OUTLETS/ HOSE VALVES.

65% SUBMITTAL

REV	DATE	DESCRIPTION	BY	APVD

REVISIONS

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DSGN	DR	CHK	APVD
AEM	DJW	AWC	VHN
CONSULTANT			

SEAL



CIVIL
NOTES

PORT OF ALASKA
PORT OF ALASKA MODERNIZATION PROGRAM
CARGO TERMINAL 1 DESIGN
ANCHORAGE, ALASKA

HORIZ SCALE:	DATE: SEPT 1, 2023	T1-C-002
VERT SCALE:	SHEET: OF	

SCOPE OF WORK - POTABLE WATER

- EXISTING POTABLE WATER MAIN SERVING PORT ADMIN BUILDING AND TERMINAL 1 WILL BE DEMOLISHED.
- EXISTING POTABLE WATER MAIN SERVING TERMINAL 2 WILL REMAIN IN PLACE AND BE CAPPED.
- CONNECT NEW 8-INCH DUCTILE IRON BURIED WATER MAIN TO EXISTING BURIED WATER MAIN AT LOCATION NORTH OF TRESTLE 1A AS SHOWN ON THE DRAWINGS
- CONSTRUCT TWO NEW FIRE HYDRANTS TO SERVE FIRE DEPARTMENT CONNECTION AT TRESTLE 1A PER AWWU STANDARD DRAWINGS.
- TRANSITION WATER MAIN FROM BURIED TO ABOVE GRADE AT TRESTLE 1A AS SHOWN ON DRAWINGS. INSTALL WATER UTILITY BOX WITH METER AND REDUCED ZONE ASSEMBLY.
- EXTEND 8-INCH DIAMETER INSULATED HDPE PIPE ALONG TRESTLE AND WHARF AS SHOWN ON DRAWINGS. SUPPORT PIPE AS SHOWN ON STRUCTURAL DRAWINGS.
- CONSTRUCT THREE SHORE TO SHIP WATER UTILITY BOXES WITH ELECTRICALLY ACTUATED VALVES AND VACUUM BREAKER ASSEMBLY AS SHOWN ON DRAWINGS.
- EXTEND NEW 8-INCH DUCTILE IRON WATER MAIN FROM TIDEWATER ROAD TO NEW TERMINAL 1B. EXTEND WATER SERVICE FROM WATER MAIN TO NEW STEVEDORE BUILDING.
- CONSTRUCT TWO NEW FIRE HYDRANTS TO SERVE FIRE DEPARTMENT CONNECTION AT TRESTLE 1B PER AWWU STANDARD DRAWINGS.
- EXTEND 8-INCH DIAMETER BURIED DUCTILE IRON WATER MAIN SOUTH, THROUGH INFILL SECTION, TO ALLOW INSTALLATION OF NEW HYDRANT SERVING ELECTRICAL SUBSTATION.
- ALL INSULATED HDPE PIPE AND PIPING WITHIN WATER UTILITY BOXES MUST HAVE ELECTRIC HEAT TRACE.

EXISTING FIRE HYDRANT FLOW TEST

EXISTING POA FIRE HYDRANT FLOW TEST RESULTS RECORDED ON AUGUST 8, 2023

TEST 1:
 TEST HYDRANT HY31030017
 STATIC PRESSURE AT TEST HYDRANT (NO FLOW) = 100 PSI
 RESIDUAL PRESSURE AT TEST HYDRANT WHILE FLOWING FROM HY31030001 = 85 PSI
 FLOW/PRESSURE AT HY31030001 = 2,000 GPM/91 PSI

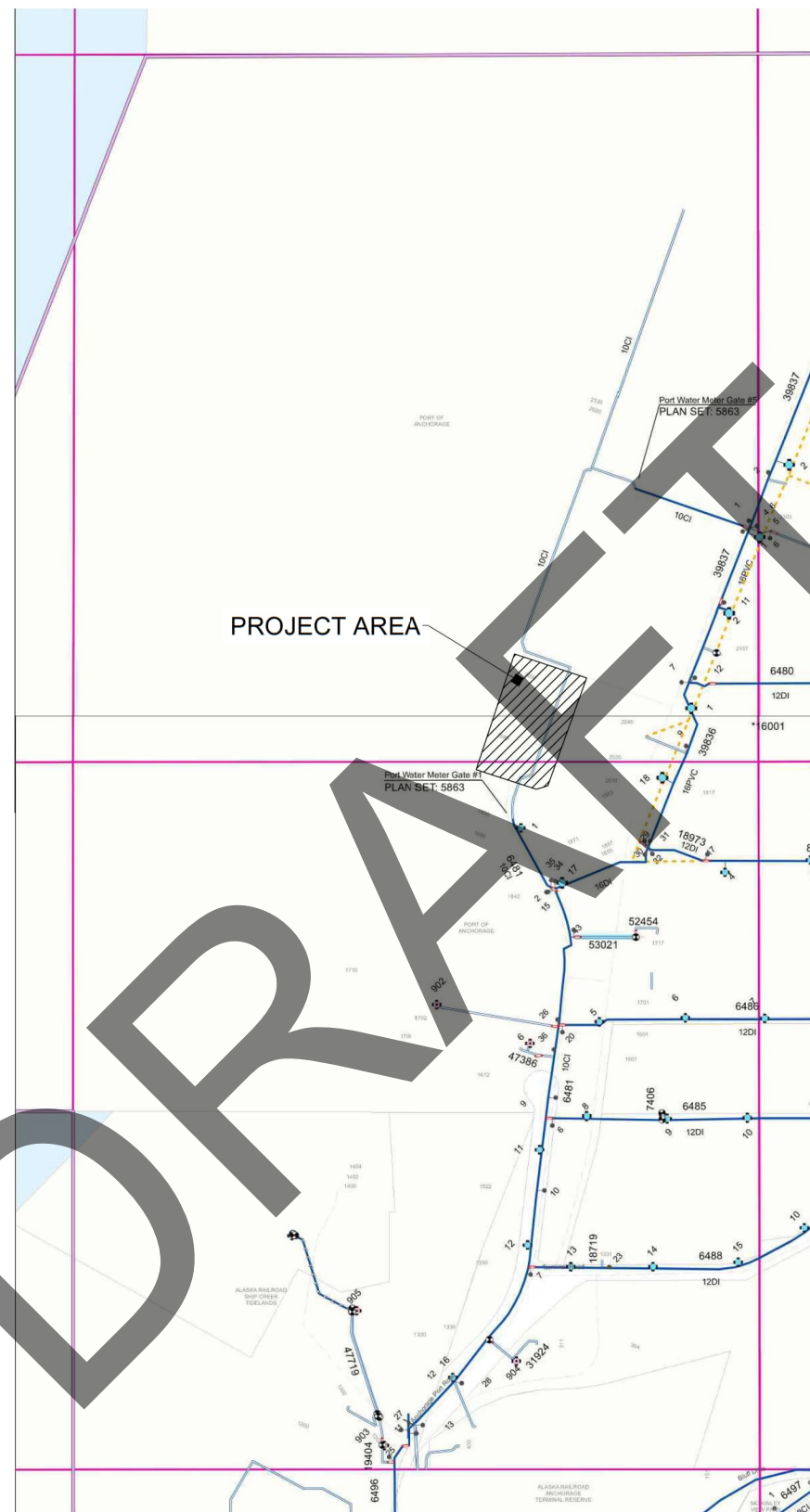
TEST 2:
 TEST HYDRANT HY31030001
 STATIC PRESSURE AT TEST HYDRANT (NO FLOW) = 95 PSI
 RESIDUAL PRESSURE AT TEST HYDRANT WHILE FLOWING FROM HY31030017 = 85 PSI
 FLOW/PRESSURE AT HY31030017 = 1,920 GPM/80 PSI
 STATIC PRESSURE AT HY31030018 = 100 PSI
 RESIDUAL PRESSURE AT HY31030018 WHILE FLOWING FROM HY31030017 = 95 PSI

PROPOSED FIRE HYDRANT MODELED FLOW RATES

MODELED FLOW RATES PROVIDED BY AWWU

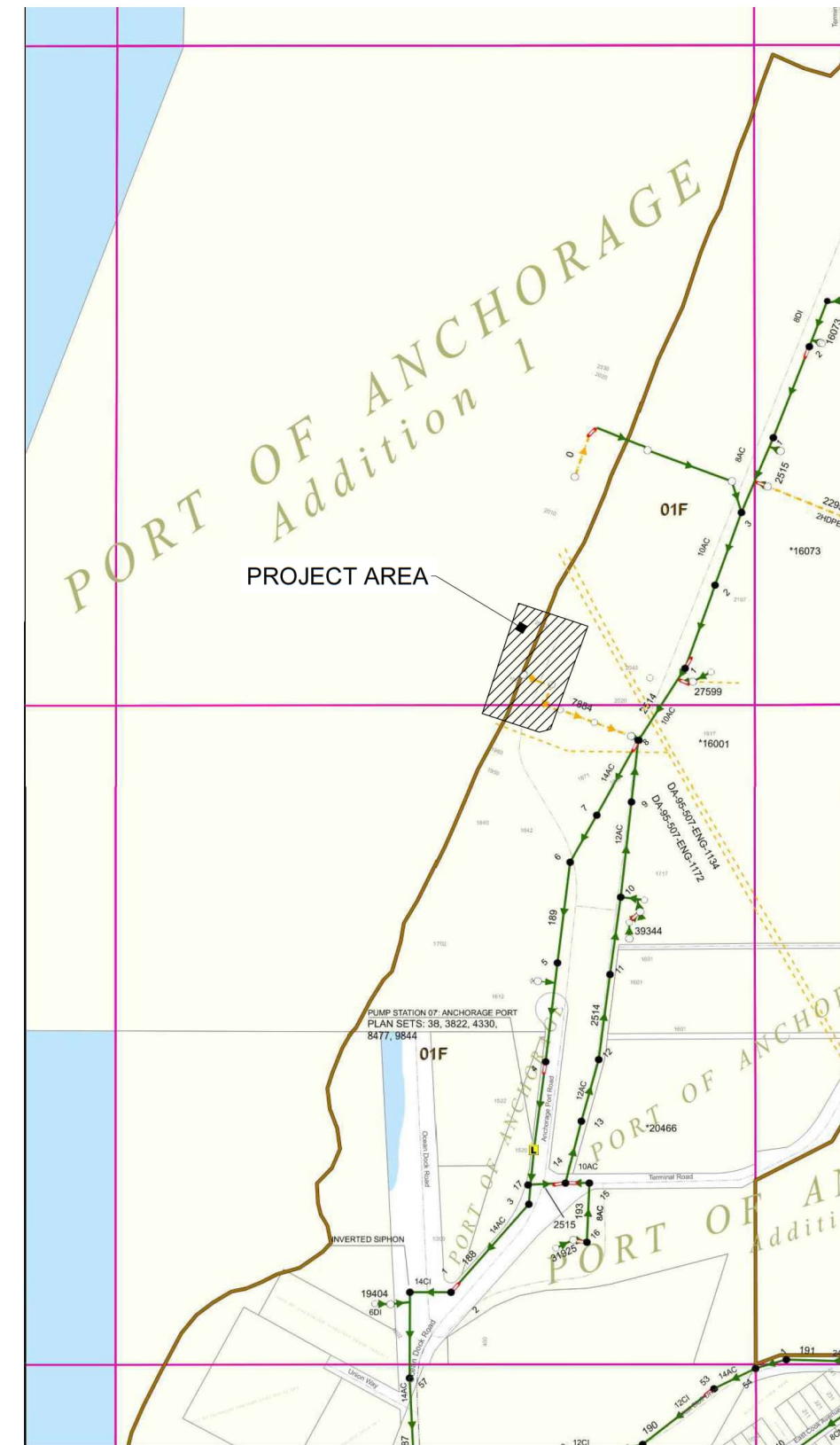
PROPOSED FIRE HYDRANT AT TRESTLE 1A:
 STATIC PRESSURE AT TEST HYDRANT (NO FLOW) = 95 PSI
 RESIDUAL PRESSURE AT 1,500 GPM = 84 PSI
 AVAILABLE FLOW AT 20 PSI = 3,210 GPM

PROPOSED FIRE HYDRANT AT TRESTLE 1B:
 STATIC PRESSURE AT TEST HYDRANT (NO FLOW) = 95 PSI
 RESIDUAL PRESSURE AT 1,500 GPM = 85 PSI
 AVAILABLE FLOW AT 20 PSI = 3,220 GPM



WATER KEY MAP - GRID SW0930 & 1030

SCALE: NTS



SEWER KEY MAP - GRID SW0930 & 1030

SCALE: NTS

65% SUBMITTAL

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REV	DATE	DESCRIPTION	BY	APVD

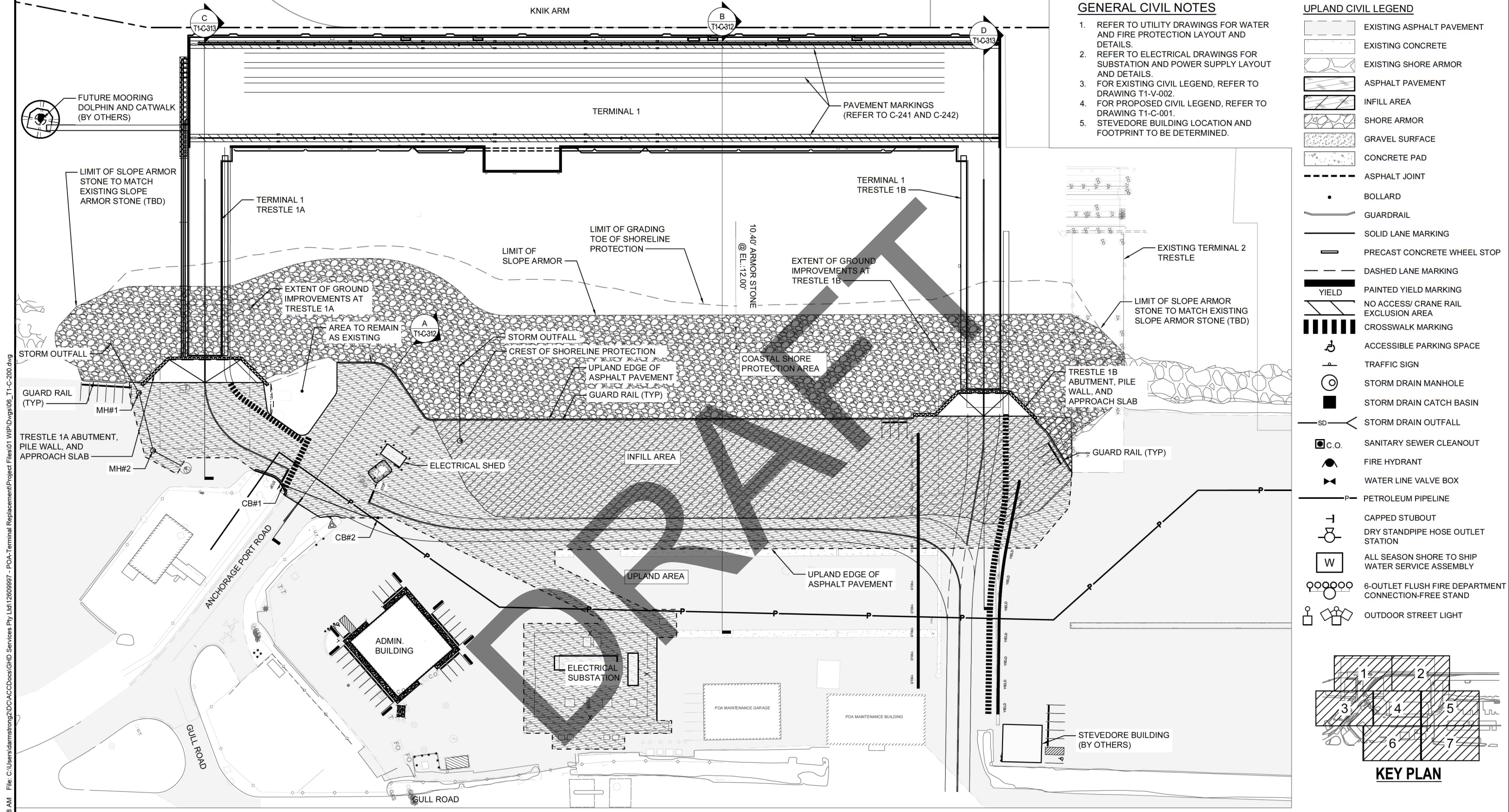
VERIFY SCALES
 BAR IS ONE INCH ON ORIGINAL DRAWING
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GHD-WSP JV 1400 W. BENSON BLVD, SUITE 400 ANCHORAGE, ALASKA 99503 AK ENGINEERING LICENSE # 197742(GHD) - AECC236(WSP) AK BUSINESS LICENSE # 2164152(GHD) - 1113511(WSP) DSGN DR CHK APVD JR EH ME ME CONSULTANT		
 3940 ARCTIC BLVD, SUITE 300 ANCHORAGE, ALASKA 99503 PHONE: (907) 562-3252 #AEC01852-AK		
 SEAL ####/###/###		

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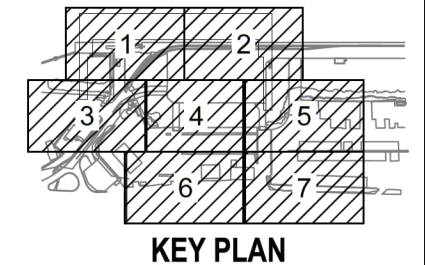
CIVIL
 POTABLE WATER CRITERIA

PORT OF ALASKA	
PORT OF ALASKA MODERNIZATION PROGRAM CARGO TERMINAL 1 DESIGN ANCHORAGE, ALASKA	
HORIZ SCALE: AS SHOWN VERT SCALE: AS SHOWN	DATE: 11/14/23 SHEET: # OF #
T1-C-003	



- GENERAL CIVIL NOTES**
- REFER TO UTILITY DRAWINGS FOR WATER AND FIRE PROTECTION LAYOUT AND DETAILS.
 - REFER TO ELECTRICAL DRAWINGS FOR SUBSTATION AND POWER SUPPLY LAYOUT AND DETAILS.
 - FOR EXISTING CIVIL LEGEND, REFER TO DRAWING T1-V-002.
 - FOR PROPOSED CIVIL LEGEND, REFER TO DRAWING T1-C-001.
 - STEVEDORE BUILDING LOCATION AND FOOTPRINT TO BE DETERMINED.

- UPLAND CIVIL LEGEND**
- EXISTING ASPHALT PAVEMENT
 - EXISTING CONCRETE
 - EXISTING SHORE ARMOR
 - ASPHALT PAVEMENT
 - INFILL AREA
 - SHORE ARMOR
 - GRAVEL SURFACE
 - CONCRETE PAD
 - ASPHALT JOINT
 - BOLLARD
 - GUARDRAIL
 - SOLID LANE MARKING
 - PRECAST CONCRETE WHEEL STOP
 - DASHED LANE MARKING
 - PAINTED YIELD MARKING
 - NO ACCESS/ CRANE RAIL EXCLUSION AREA
 - CROSSWALK MARKING
 - ACCESSIBLE PARKING SPACE
 - TRAFFIC SIGN
 - STORM DRAIN MANHOLE
 - STORM DRAIN CATCH BASIN
 - STORM DRAIN OUTFALL
 - SANITARY SEWER CLEANOUT
 - FIRE HYDRANT
 - WATER LINE VALVE BOX
 - PETROLEUM PIPELINE
 - CAPPED STUBOUT
 - DRY STANDPIPE HOSE OUTLET STATION
 - ALL SEASON SHORE TO SHIP WATER SERVICE ASSEMBLY
 - 6-OUTLET FLUSH FIRE DEPARTMENT CONNECTION-FREE STAND
 - OUTDOOR STREET LIGHT



OVERALL SITE PLAN
SCALE: 1" = 50'

1" = 50' scale 50 0 50 100 feet **65% SUBMITTAL**

REV	DATE	DESCRIPTION	BY	APVD

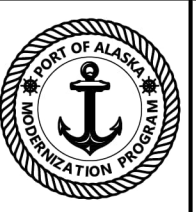
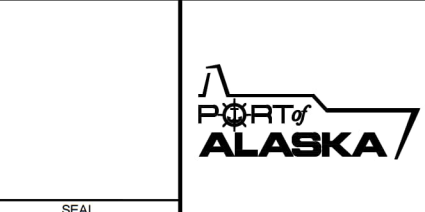
VERIFY SCALES
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GHD **wsp**

GHD-WSP JV
1400 W. BENSON BLVD, SUITE 400
ANCHORAGE, ALASKA 99503
AK ENGINEERING LICENSE # 197742(GHD) - AECC236(WSP) AK BUSINESS LICENSE # 2164152(GHD) - 1113511(WSP)

DSGN: AEM DR: DJW CHK: AWC APVD: VHN

CONSULTANT SEAL



CIVIL
OVERALL SITE PLAN

PORT OF ALASKA
PORT OF ALASKA MODERNIZATION PROGRAM
CARGO TERMINAL 1 DESIGN
ANCHORAGE, ALASKA

HORIZ SCALE: 1"=50' DATE: SEPT 1, 2023
VERT SCALE: SHEET: OF **T1-C-200**

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*****PRELIMINARY. NOT FOR USE IN DEVELOPING CONSTRUCTION BIDS*****

MATCHLINE - SEE T1-C-201

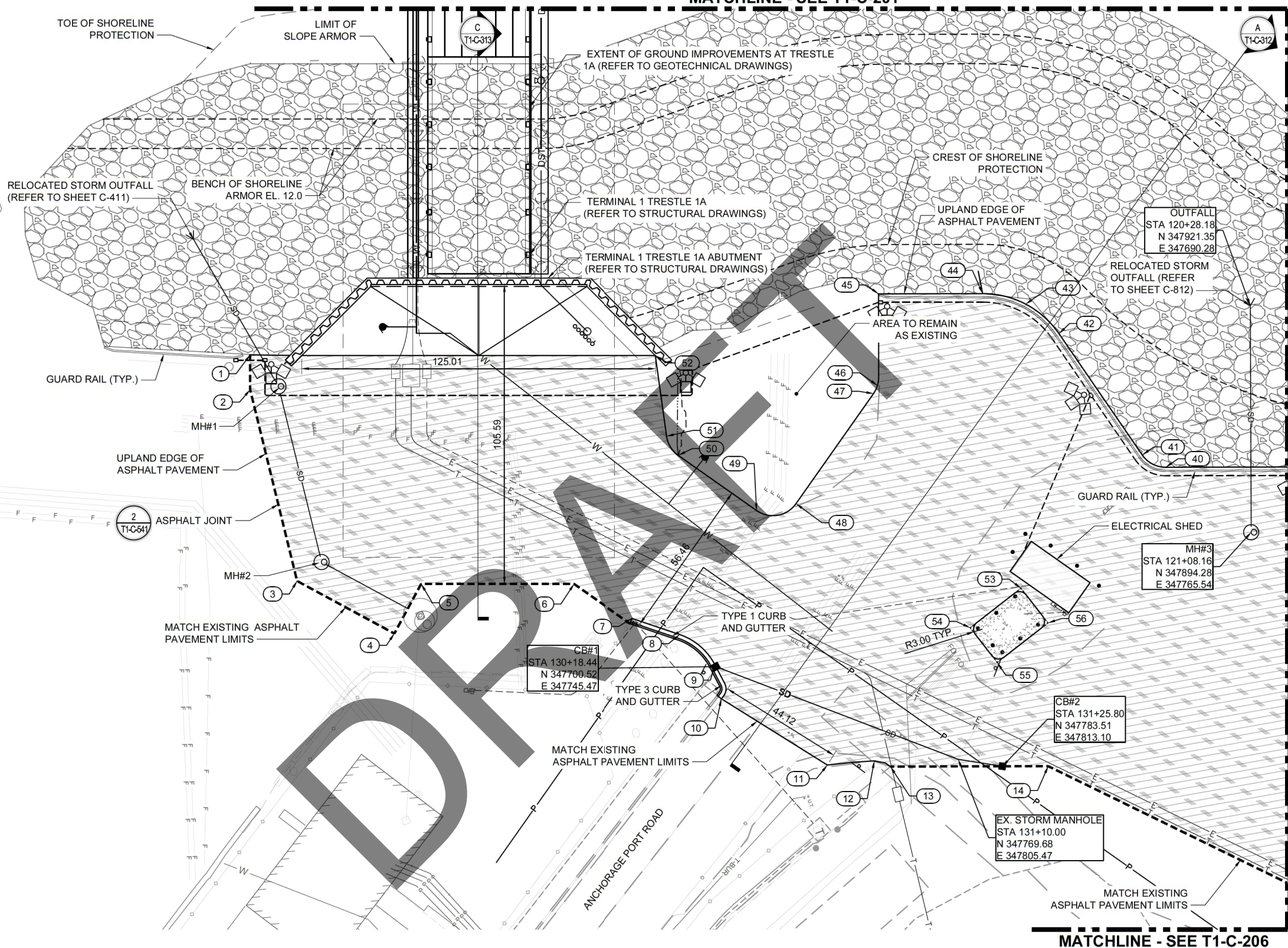
GENERAL CIVIL NOTES

1. REFER TO UTILITY DRAWINGS FOR WATER AND FIRE PROTECTION LAYOUT AND DETAILS.
2. REFER TO ELECTRICAL DRAWINGS FOR SUBSTATION AND POWER SUPPLY LAYOUT AND DETAILS.
3. FOR EXISTING CIVIL LEGEND, REFER TO DRAWING T1-V-002.
4. FOR PROPOSED CIVIL LEGEND, REFER TO DRAWING T1-C-001.

SITE LAYOUT LEGEND

- EXISTING ASPHALT PAVEMENT
- EXISTING CONCRETE
- EXISTING SHORE ARMOR
- ASPHALT PAVEMENT
- INFILL AREA
- SHORE ARMOR
- GRAVEL SURFACE
- CONCRETE PAD
- ASPHALT JOINT
- BOLLARD
- GUARDRAIL
- LAYOUT POINT

EDGE OF PAVEMENT LAYOUT			
POINT	NORTHING	EASTING	TOP OF ASPHALT ELEVATION
1	347583.447	347585.766	36.087
2	347579.244	347597.335	36.246
3	347571.730	347666.440	36.867
4	347597.643	347695.603	37.110
5	347612.528	347682.377	36.889
6	347663.250	347700.839	36.881
7	347678.452	347719.313	37.477
8	347692.359	347730.452	37.270
9	347700.413	347744.717	37.066
10	347698.446	347756.800	36.918
11	347725.620	347791.564	36.112
12	347741.690	347795.839	36.034
13	347746.349	347799.680	35.876
14	347798.713	347818.594	36.077
40	347873.760	347733.653	36.650
41	347867.474	347726.745	36.650
42	347854.510	347676.488	36.650
43	347846.991	347662.667	36.650
44	347834.018	347653.970	36.650
45	347799.434	347641.478	36.650
46	347788.030	347671.741	36.871
47	347785.747	347673.945	36.893
48	347746.756	347701.096	37.217
49	347732.836	347698.604	37.335
50	347713.561	347670.896	36.430
51	347711.964	347663.086	36.382
52	347717.967	347634.990	37.125
53	347811.170	347756.298	37.115
54	347789.553	347763.279	37.286
55	347794.323	347778.050	37.258
56	347815.940	347771.069	37.095

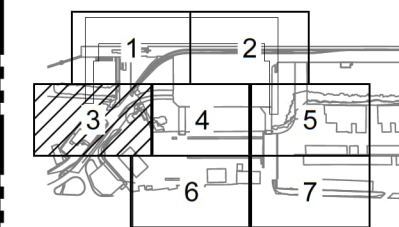


MATCHLINE - SEE T1-C-204

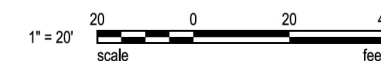
MATCHLINE - SEE T1-C-206

LAYOUT PLAN - UPLAND

SCALE: 1" = 20'



KEY PLAN



65% SUBMITTAL

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REV	DATE	DESCRIPTION	BY	APVD

VERIFY SCALES
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GHD-WSP JV
1400 W. BENSON BLVD, SUITE 400
ANCHORAGE, ALASKA 99503
AK ENGINEERING LICENSE # 197742(GHD) - AECC236(WSP) AK BUSINESS LICENSE # 2164152(GHD) - 1113511(WSP)
DSGN DR CHK APVD
AEM DJW AWC VHN
CONSULTANT SEAL

PORT OF ALASKA
ALASKA

PORT OF ALASKA
MODERNIZATION PROGRAM

CIVIL
LAYOUT PLAN
UPLAND (1 OF 5)

PORT OF ALASKA
PORT OF ALASKA MODERNIZATION PROGRAM
CARGO TERMINAL 1 DESIGN
ANCHORAGE, ALASKA
HORIZ SCALE: 1"=20'
VERT SCALE:
DATE: SEPT 1, 2023
SHEET: OF
T1-C-203

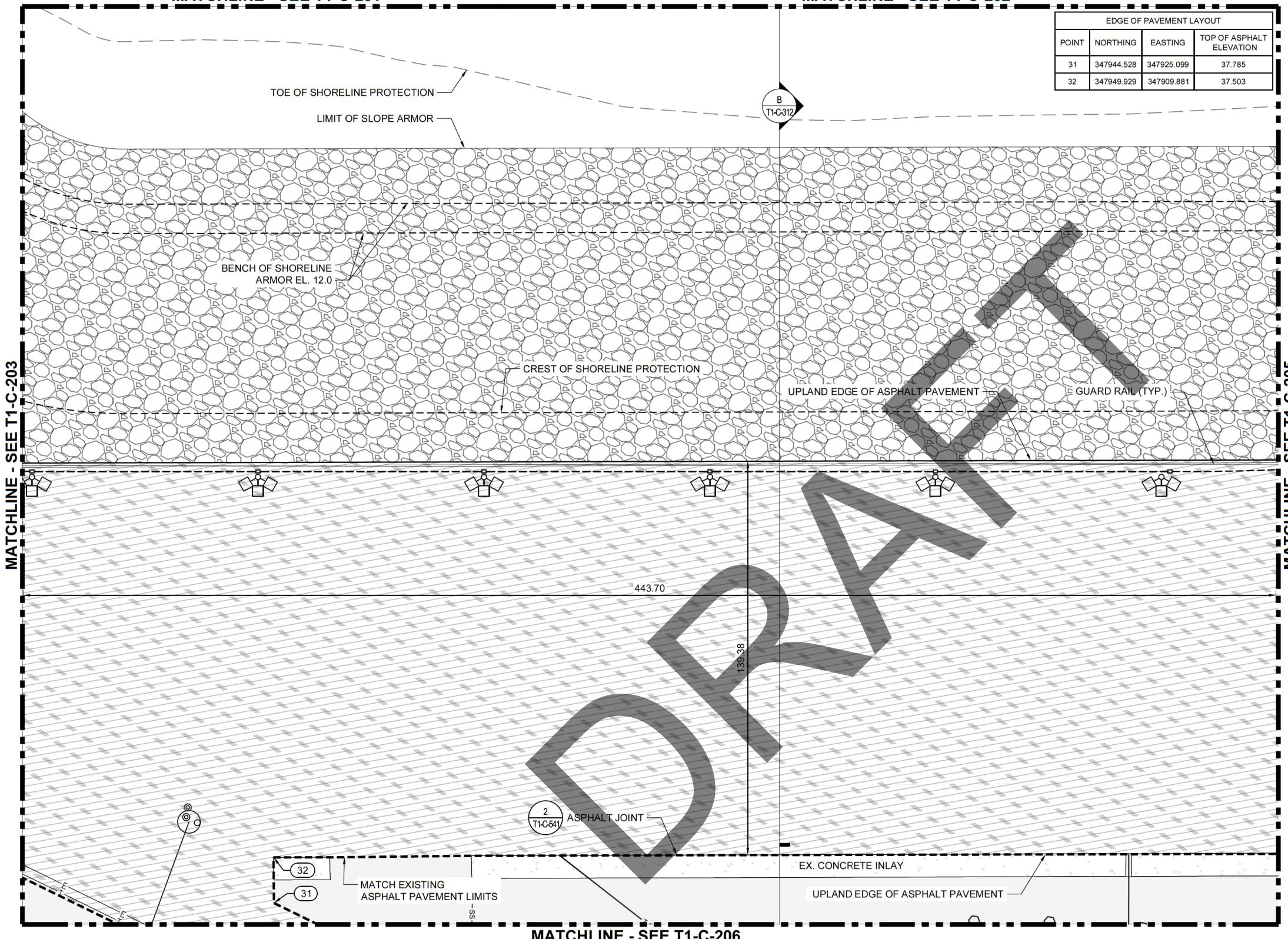
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MATCHLINE - SEE T1-C-201

MATCHLINE - SEE T1-C-202

EDGE OF PAVEMENT LAYOUT			
POINT	NORTHING	EASTING	TOP OF ASPHALT ELEVATION
31	347944.528	347925.099	37.785
32	347949.929	347909.881	37.503



GENERAL CIVIL NOTES

1. REFER TO UTILITY DRAWINGS FOR WATER AND FIRE PROTECTION LAYOUT AND DETAILS.
2. REFER TO ELECTRICAL DRAWINGS FOR SUBSTATION AND POWER SUPPLY LAYOUT AND DETAILS.
3. FOR EXISTING CIVIL LEGEND, REFER TO DRAWING T1-V-002.
4. FOR PROPOSED CIVIL LEGEND, REFER TO DRAWING T1-C-001.

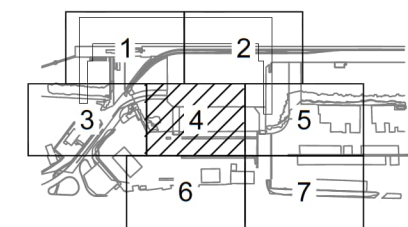
SITE LAYOUT LEGEND

- EXISTING ASPHALT PAVEMENT
- EXISTING CONCRETE
- EXISTING SHORE ARMOR
- ASPHALT PAVEMENT
- INFILL AREA
- SHORE ARMOR
- GRAVEL SURFACE
- CONCRETE PAD
- ASPHALT JOINT
- BOLLARD
- GUARDRAIL
- LAYOUT POINT

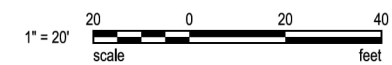
MATCHLINE - SEE T1-C-203

MATCHLINE - SEE T1-C-205

DRAFT



KEY PLAN



65% SUBMITTAL

LAYOUT PLAN - UPLAND

SCALE: 1" = 20'



REV	DATE	DESCRIPTION	BY	APVD

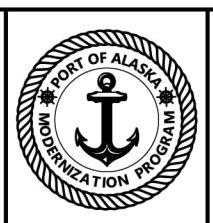
REVISIONS

GHD-WSP JV
 1400 W. BENSON BLVD, SUITE 400
 ANCHORAGE, ALASKA 99503
 AK ENGINEERING LICENSE # 197742(GHD) - AECC236(WSP) AK BUSINESS LICENSE # 2164152(GHD) - 1113511(WSP)

DSGN	DR	CHK	APVD
AEM	DJW	AWC	VHN

CONSULTANT

SEAL



CIVIL
LAYOUT PLAN
UPLAND (2 OF 5)

PORT OF ALASKA

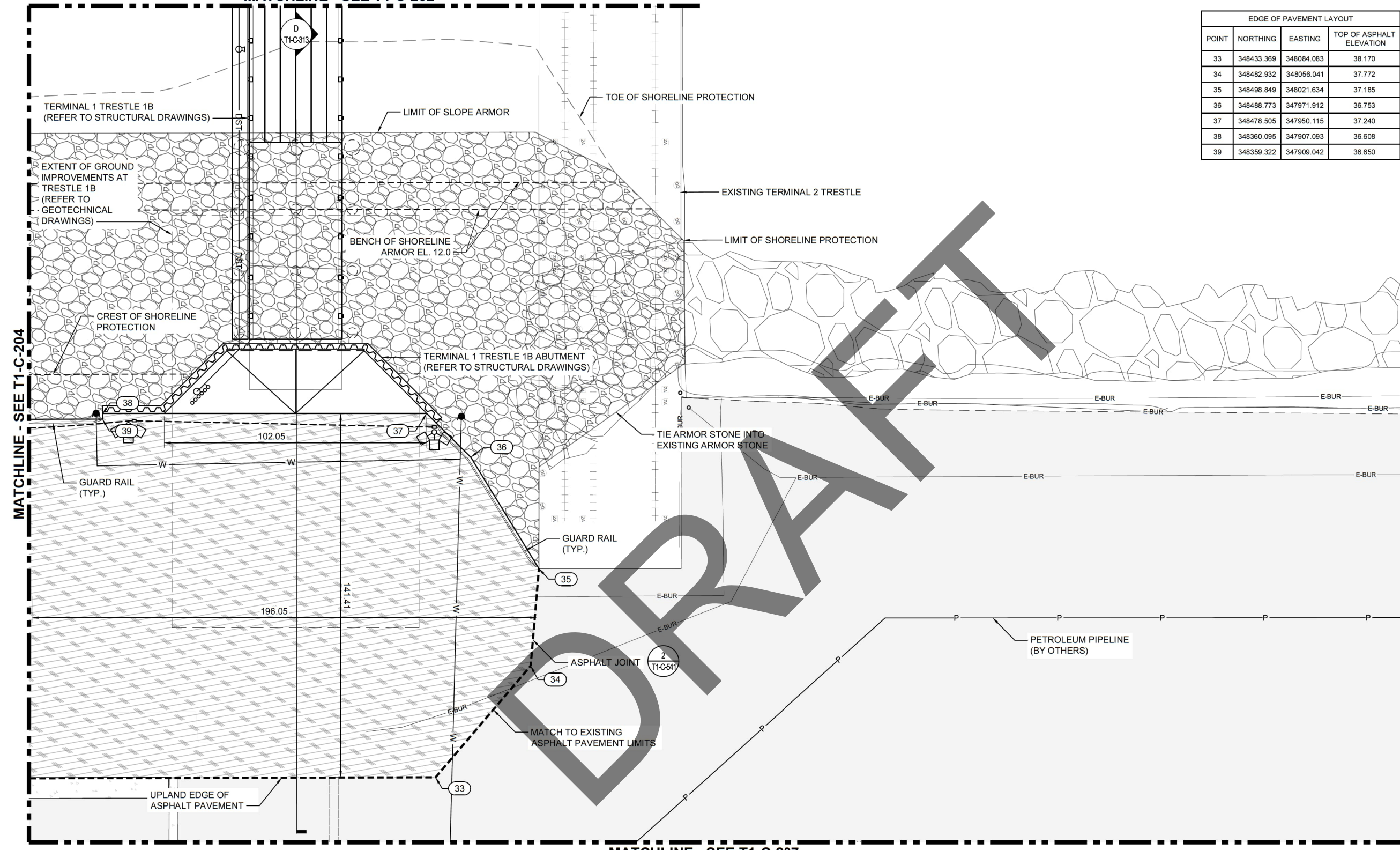
PORT OF ALASKA MODERNIZATION PROGRAM
CARGO TERMINAL 1 DESIGN
ANCHORAGE, ALASKA

HORIZ SCALE: 1"=20'	DATE: SEPT 1, 2023	T1-C-204
VERT SCALE:	SHEET: OF	

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MATCHLINE - SEE T1-C-202



EDGE OF PAVEMENT LAYOUT			
POINT	NORTHING	EASTING	TOP OF ASPHALT ELEVATION
33	348433.369	348084.083	38.170
34	348482.932	348056.041	37.772
35	348498.849	348021.634	37.185
36	348488.773	347971.912	36.753
37	348478.505	347950.115	37.240
38	348360.095	347907.093	36.608
39	348359.322	347909.042	36.650

GENERAL CIVIL NOTES

- REFER TO UTILITY DRAWINGS FOR WATER AND FIRE PROTECTION LAYOUT AND DETAILS.
- REFER TO ELECTRICAL DRAWINGS FOR SUBSTATION AND POWER SUPPLY LAYOUT AND DETAILS.
- FOR EXISTING CIVIL LEGEND, REFER TO DRAWING T1-V-002.
- FOR PROPOSED CIVIL LEGEND, REFER TO DRAWING T1-C-001.

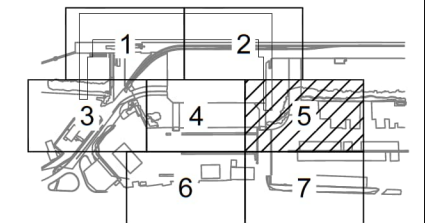
SITE LAYOUT LEGEND

- EXISTING ASPHALT PAVEMENT
- EXISTING CONCRETE
- EXISTING SHORE ARMOR
- ASPHALT PAVEMENT
- INFILL AREA
- SHORE ARMOR
- GRAVEL SURFACE
- CONCRETE PAD
- ASPHALT JOINT
- BOLLARD
- GUARDRAIL
- LAYOUT POINT

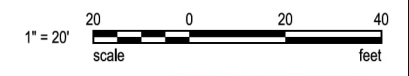
MATCHLINE - SEE T1-C-204

MATCHLINE - SEE T1-C-207

LAYOUT PLAN - UPLAND
SCALE: 1" = 20'



KEY PLAN



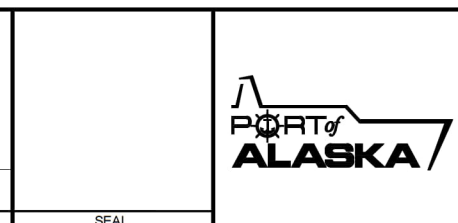
65% SUBMITTAL

REV	DATE	DESCRIPTION	BY	APVD

REVISIONS

GHD-WSP JV
 1400 W. BENSON BLVD, SUITE 400
 ANCHORAGE, ALASKA 99503
 AK ENGINEERING LICENSE # 197742(GHD) - AECC236(WSP) AK BUSINESS LICENSE # 2164152(GHD) - 113511(WSP)

DSGN	DR	CHK	APVD
AEM	DJW	AWC	VHN
CONSULTANT			
SEAL			



CIVIL
LAYOUT PLAN
UPLAND (3 OF 5)

PORT OF ALASKA		
PORT OF ALASKA MODERNIZATION PROGRAM		
CARGO TERMINAL 1 DESIGN		
ANCHORAGE, ALASKA		
HORIZ SCALE: 1"=20'	DATE: SEPT 1, 2023	T1-C-205
VERT SCALE:	SHEET: OF	

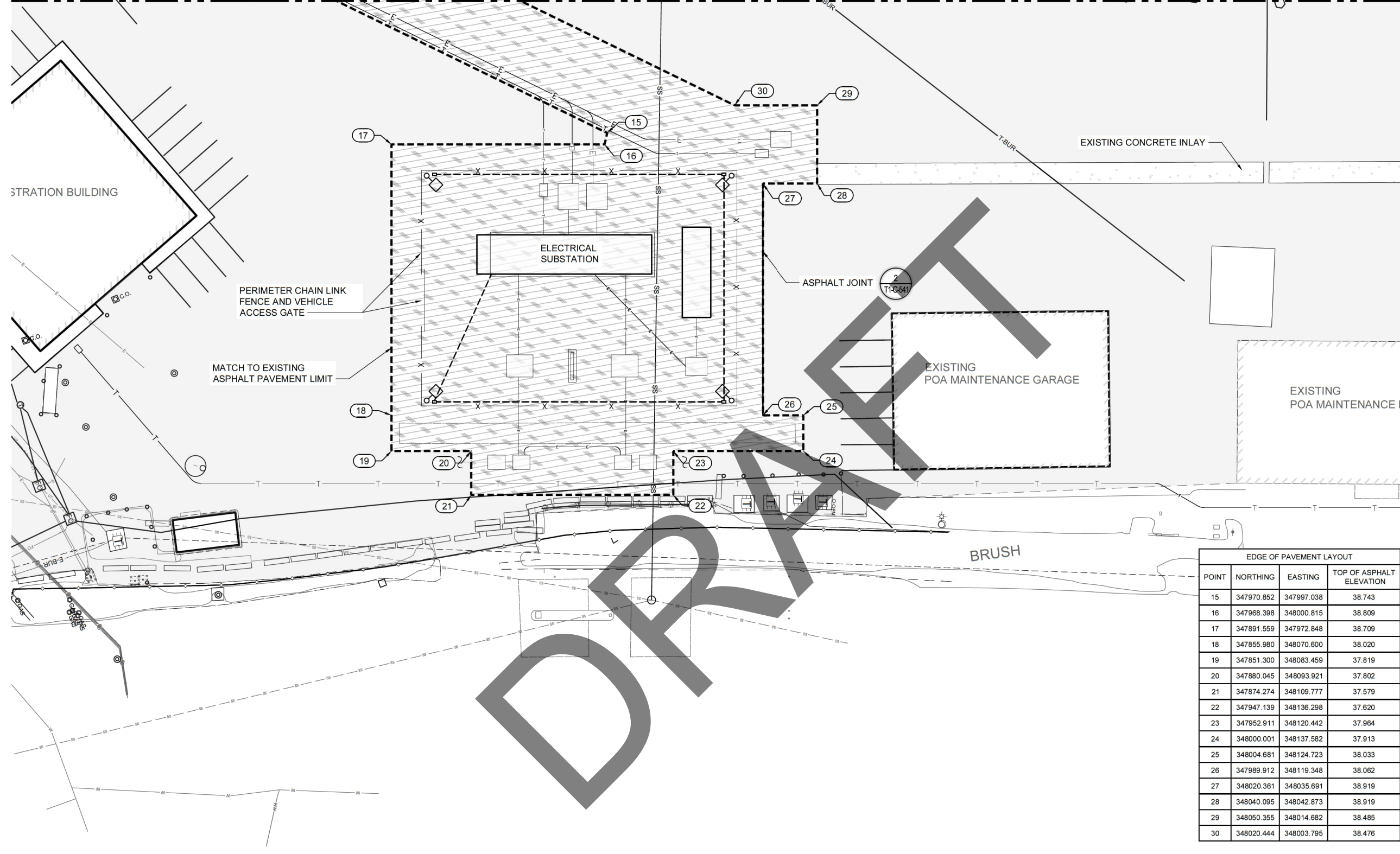
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MATCHLINE - SEE T1-C-203

MATCHLINE - SEE T1-C-204

GENERAL CIVIL NOTES



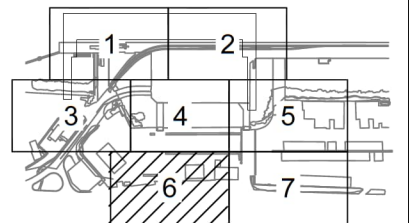
- REFER TO UTILITY DRAWINGS FOR WATER AND FIRE PROTECTION LAYOUT AND DETAILS.
- REFER TO ELECTRICAL DRAWINGS FOR SUBSTATION AND POWER SUPPLY LAYOUT AND DETAILS.
- FOR EXISTING CIVIL LEGEND, REFER TO DRAWING T1-V-002.
- FOR PROPOSED CIVIL LEGEND, REFER TO DRAWING T1-C-001.

SITE LAYOUT LEGEND

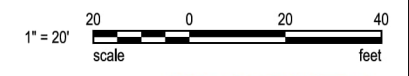
- EXISTING ASPHALT PAVEMENT
- EXISTING CONCRETE
- EXISTING SHORE ARMOR
- ASPHALT PAVEMENT
- INFILL AREA
- SHORE ARMOR
- GRAVEL SURFACE
- CONCRETE PAD
- ASPHALT JOINT
- BOLLARD
- GUARDRAIL
- LAYOUT POINT

MATCHLINE - SEE T1-C-207

EDGE OF PAVEMENT LAYOUT			
POINT	NORTHING	EASTING	TOP OF ASPHALT ELEVATION
15	347970.852	347997.038	38.743
16	347968.398	348000.815	38.809
17	347891.559	347972.848	38.709
18	347855.980	348070.600	38.020
19	347851.300	348083.459	37.819
20	347880.045	348093.921	37.802
21	347874.274	348109.777	37.579
22	347947.139	348136.298	37.620
23	347952.911	348120.442	37.964
24	348000.001	348137.582	37.913
25	348004.681	348124.723	38.033
26	347989.912	348119.348	38.062
27	348020.361	348035.691	38.919
28	348040.095	348042.873	38.919
29	348050.355	348014.682	38.485
30	348020.444	348003.795	38.476



KEY PLAN



65% SUBMITTAL

LAYOUT PLAN - UPLAND
SCALE: 1" = 20'



REV	DATE	DESCRIPTION	BY	APVD

GHD-WSP JV
 1400 W. BENSON BLVD, SUITE 400
 ANCHORAGE, ALASKA 99503
 AK ENGINEERING LICENSE # 197742(GHD) - AECC236(WSP) AK BUSINESS LICENSE # 2164152(GHD) - 113511(WSP)

DSGN	DR	CHK	APVD
AEM	DJW	AWC	VHN

CONSULTANT

CIVIL
LAYOUT PLAN
UPLAND (4 OF 5)

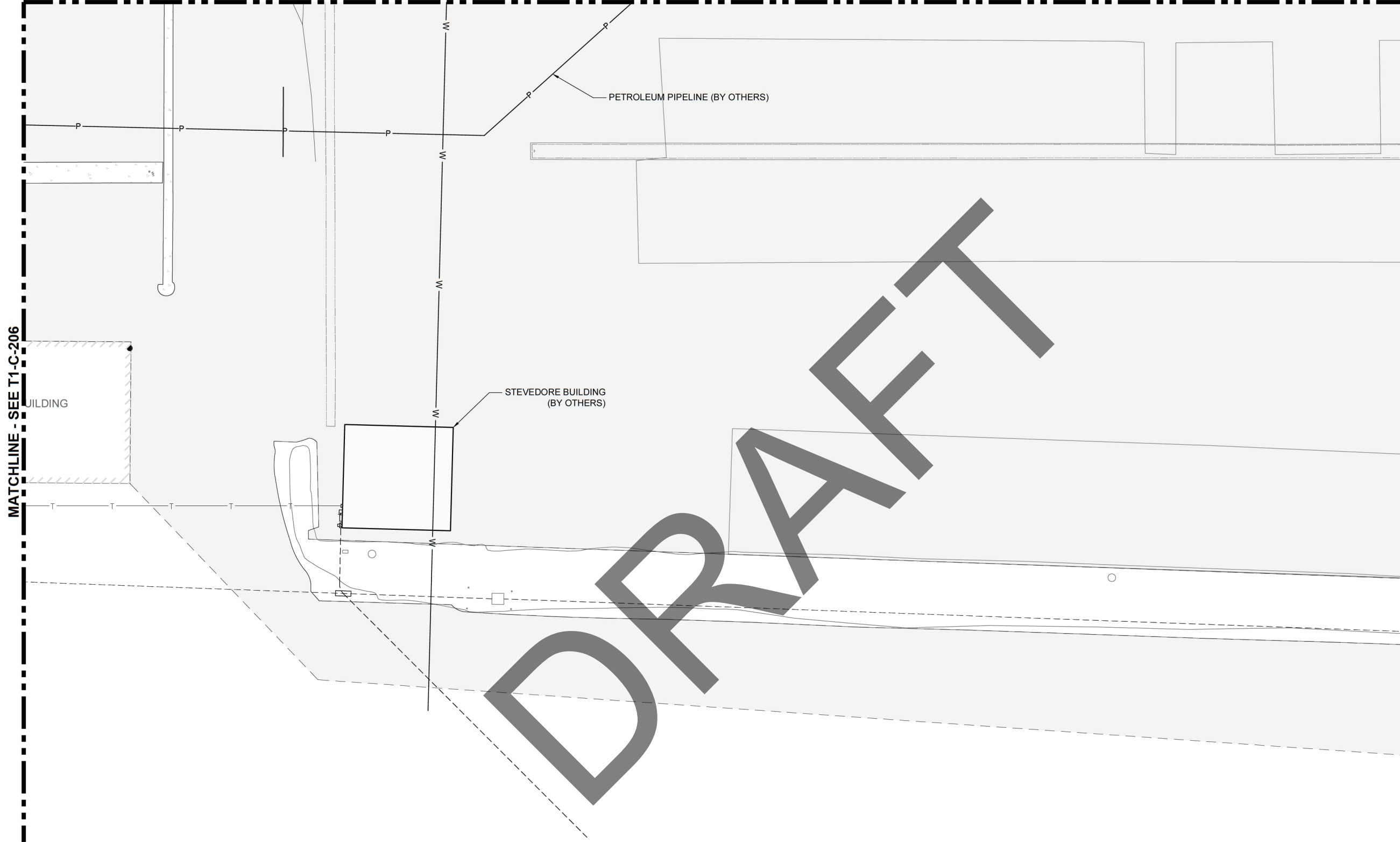
PORT OF ALASKA
PORT OF ALASKA MODERNIZATION PROGRAM
CARGO TERMINAL 1 DESIGN
ANCHORAGE, ALASKA

HORIZ SCALE: 1"=20'	DATE: SEPT 1, 2023	T1-C-206
VERT SCALE:	SHEET: OF	

PRELIMINARY. NOT FOR USE IN DEVELOPING CONSTRUCTION BIDS

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MATCHLINE - SEE T1-C-205



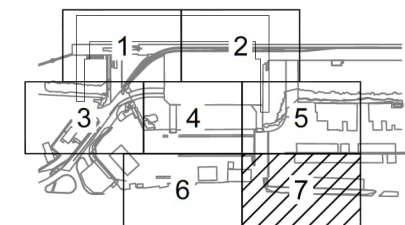
GENERAL CIVIL NOTES

1. REFER TO UTILITY DRAWINGS FOR WATER AND FIRE PROTECTION LAYOUT AND DETAILS.
2. REFER TO ELECTRICAL DRAWINGS FOR SUBSTATION AND POWER SUPPLY LAYOUT AND DETAILS.
3. FOR EXISTING CIVIL LEGEND, REFER TO DRAWING T1-V-002.
4. FOR PROPOSED CIVIL LEGEND, REFER TO DRAWING T1-C-001.
5. STEVEDORE BUILDING LOCATION AND FOOTPRINT TO BE DETERMINED.

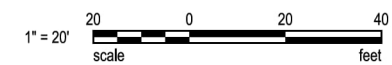
SITE LAYOUT LEGEND

- EXISTING ASPHALT PAVEMENT
- EXISTING CONCRETE
- EXISTING SHORE ARMOR
- ASPHALT PAVEMENT
- INFILL AREA
- SHORE ARMOR
- GRAVEL SURFACE
- CONCRETE PAD
- ASPHALT JOINT
- BOLLARD
- GUARDRAIL
- LAYOUT POINT

DRAFT



KEY PLAN



65% SUBMITTAL

LAYOUT PLAN - UPLAND

SCALE: 1" = 20'



REV	DATE	DESCRIPTION	BY	APVD

REVISIONS

GHD-WSP JV
1400 W. BENSON BLVD, SUITE 400
ANCHORAGE, ALASKA 99503
AK ENGINEERING LICENSE # 197742(GHD) - AECC236(WSP)
AK BUSINESS LICENSE # 2164152(GHD) - 113511(WSP)

DR DJW
AWC
CONSULTANT

APVD VHN

SEAL

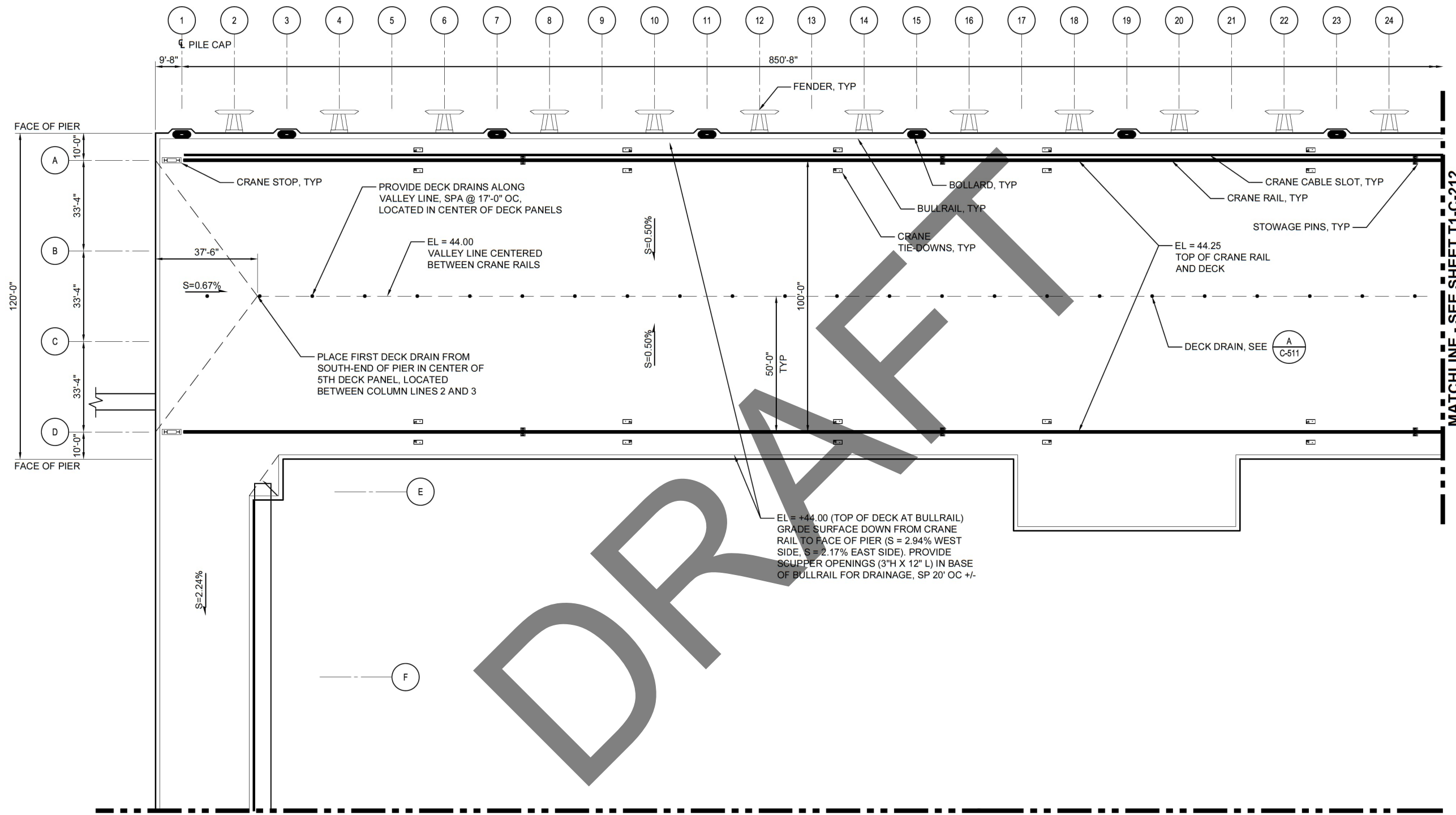


CIVIL
LAYOUT PLAN
UPLAND (5 OF 5)

PORT OF ALASKA		
PORT OF ALASKA MODERNIZATION PROGRAM		
CARGO TERMINAL 1 DESIGN		
ANCHORAGE, ALASKA		
HORIZ SCALE: 1"=20'	DATE: SEPT 1, 2023	T1-C-207
VERT SCALE:	SHEET: OF	

PRELIMINARY. NOT FOR USE IN DEVELOPING CONSTRUCTION BIDS

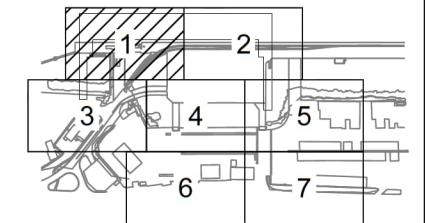
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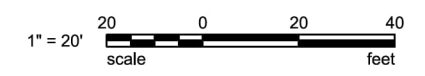
MATCHLINE - SEE SHEET T1-C-212

MATCHLINE - SEE SHEET T1-C-213

MATCHLINE - SEE SHEET T1-C-214



KEY PLAN



PLAN - PIER GRADING AND DRAINAGE
SCALE: 1" = 20'

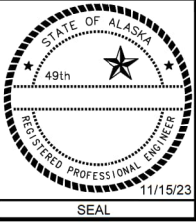


65% SUBMITTAL

REV	DATE	DESCRIPTION	BY	APVD

GHD-WSP JV
 1400 W. BENSON BLVD, SUITE 400
 ANCHORAGE, ALASKA 99503
 AK ENGINEERING LICENSE # 197742(GHD) - AECC236(WSP) AK BUSINESS LICENSE # 2164152(GHD) - 1113511(WSP)

DSGN	DR	CHK	APVD
XXX	JDM	MM	JRG
CONSULTANT			



CIVIL

GRADING & DRAINAGE - WHARF (1 OF 2)

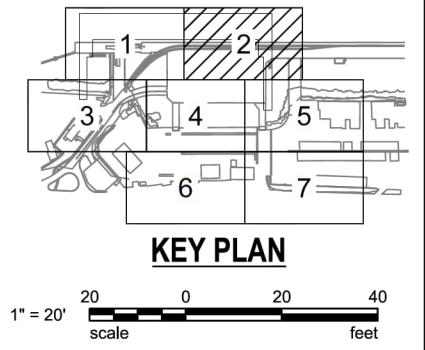
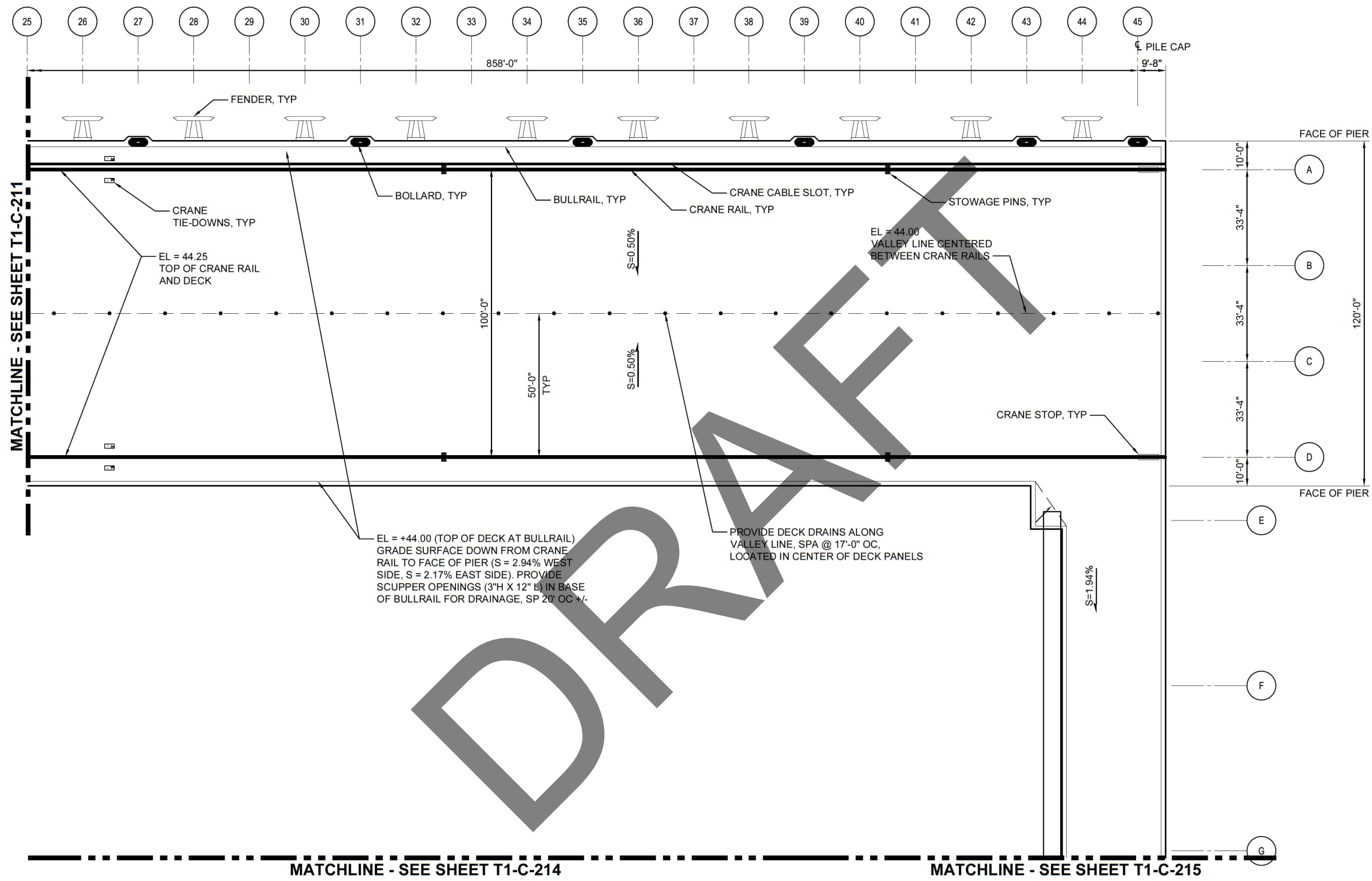
PORT OF ALASKA

PORT OF ALASKA MODERNIZATION PROGRAM
CARGO TERMINAL 1 DESIGN
ANCHORAGE, ALASKA

HORIZ SCALE: AS SHOWN	DATE: 11/17/23	T1-C-211
VERT SCALE: AS SHOWN	SHEET: 59 OF 420	

PRELIMINARY. NOT FOR USE IN DEVELOPING CONSTRUCTION BIDS

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65% SUBMITTAL

REV	DATE	DESCRIPTION	BY	APVD

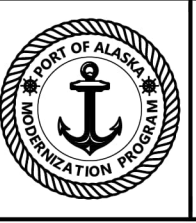
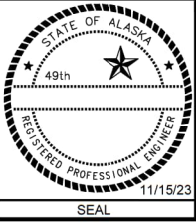
GHD **wsp**

GHD-WSP JV
1400 W. BENSON BLVD, SUITE 400
ANCHORAGE, ALASKA 99503

AK ENGINEERING LICENSE # 197742(GHD) - AECC236(WSP) AK BUSINESS LICENSE # 2164152(GHD) - 1113511(WSP)

DSGN: XXX DR: JDM CHK: MM APVD: JRG

CONSULTANT



CIVIL

GRADING & DRAINAGE - WHARF (2 OF 2)

PORT OF ALASKA

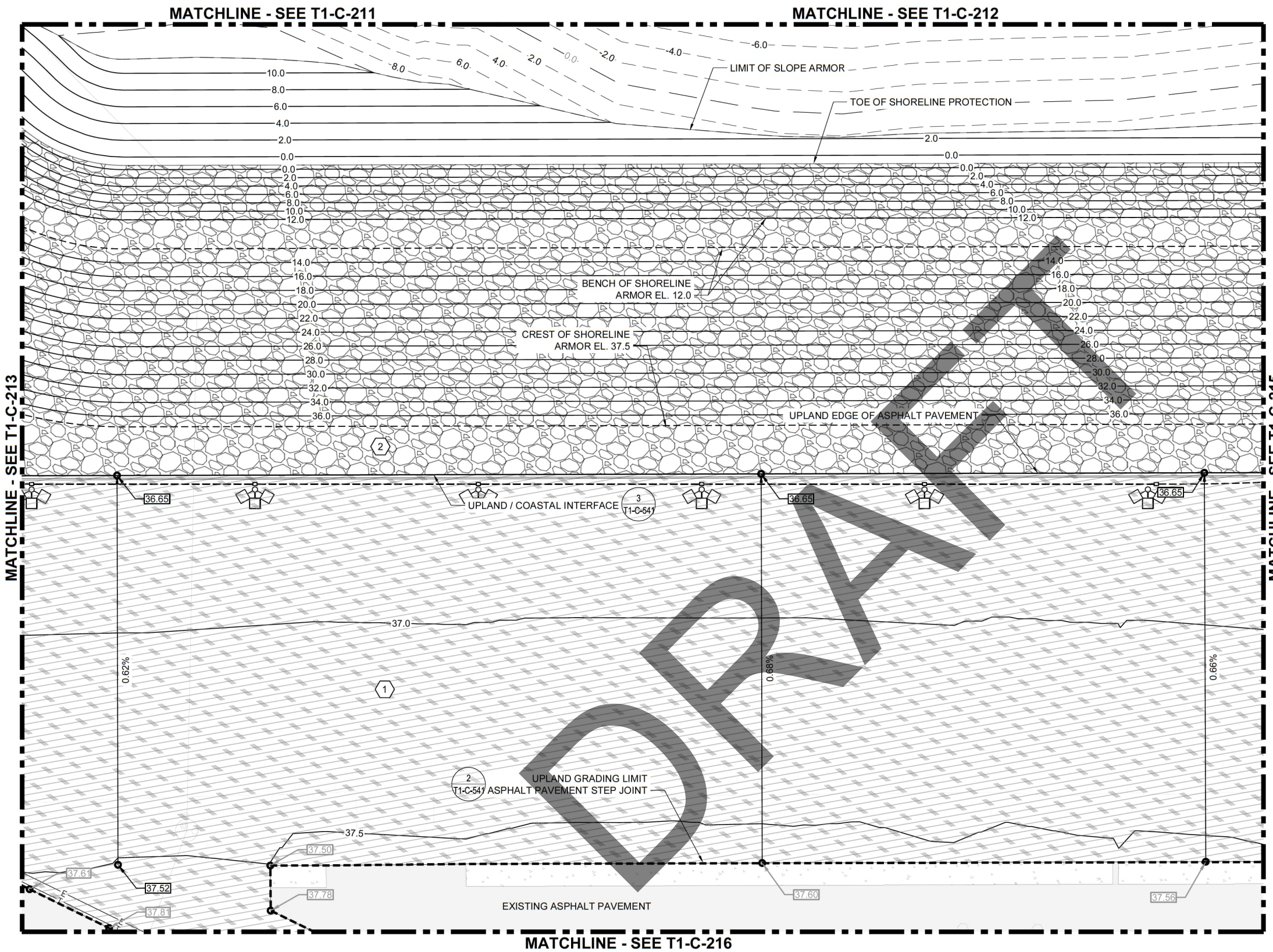
PORT OF ALASKA MODERNIZATION PROGRAM
CARGO TERMINAL 1 DESIGN
ANCHORAGE, ALASKA

HORIZ SCALE: AS SHOWN DATE: 11/17/23
VERT SCALE: AS SHOWN SHEET: 60 OF 420

T1-C-212

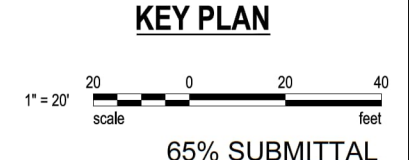
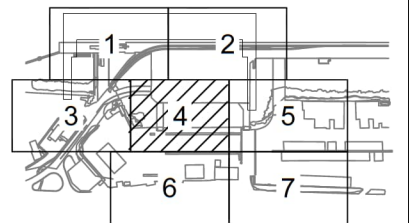
PRELIMINARY. NOT FOR USE IN DEVELOPING CONSTRUCTION BIDS

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- SHEET KEYNOTES**
- FOR UPLAND PAVEMENT DETAILS SEE DRAWING T1-C-541.
 - FOR COASTAL SHORE ARMOR, REFER TO DRAWINGS T1-C-251, T1-C-351 & T1-C-551
 - FOR STRUCTURAL ABUTMENT, APPROACH SLAB AND SHEET PILE, REFER TO DRAWINGS T1-S-718 & T1-S-719
 - FOR STORM SYSTEM DRAINAGE DETAILS, REFER TO DRAWINGS T1-C-811 & T1-C-812

- GRADING LEGEND**
- 10 - EXISTING MAJOR CONTOUR
 - 10 - EXISTING MINOR CONTOUR
 - 36.00 - EXISTING SURFACE ELEVATION
 - 1.00% - EXISTING SURFACE SLOPE
 - 10 - MAJOR CONTOUR
 - 10 - MINOR CONTOUR
 - 36.00 - SURFACE ELEVATION
 - 1.00% - SURFACE SLOPE
 - sd - STORM DRAIN PIPE
 - STORM DRAIN OUTFALL
 - - STORM DRAIN MANHOLE
 - - STORM DRAIN CATCHBASIN
 - ASPHALT PAVEMENT
 - INFILL AREA
 - SHORE ARMOR
 - GRAVEL SURFACE
 - CONCRETE PAD
 - ASPHALT JOINT
 - - BOLLARD
 - GUARDRAIL



GRADING & DRAINAGE PLAN - UPLAND
SCALE: 1" = 20'

REV	DATE	DESCRIPTION	BY	APVD

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

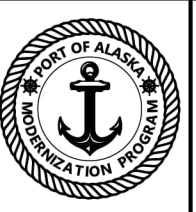
GHD **wsp**

GHD-WSP JV
1400 W. BENSON BLVD, SUITE 400
ANCHORAGE, ALASKA 99503
AK ENGINEERING LICENSE # 197742(GHD) - AECC236(WSP) AK BUSINESS LICENSE # 2164152(GHD) - 1113511(WSP)

DSGN: AEM DR: DJW CHK: AWC APVD: VHN

CONSULTANT

PORT OF ALASKA



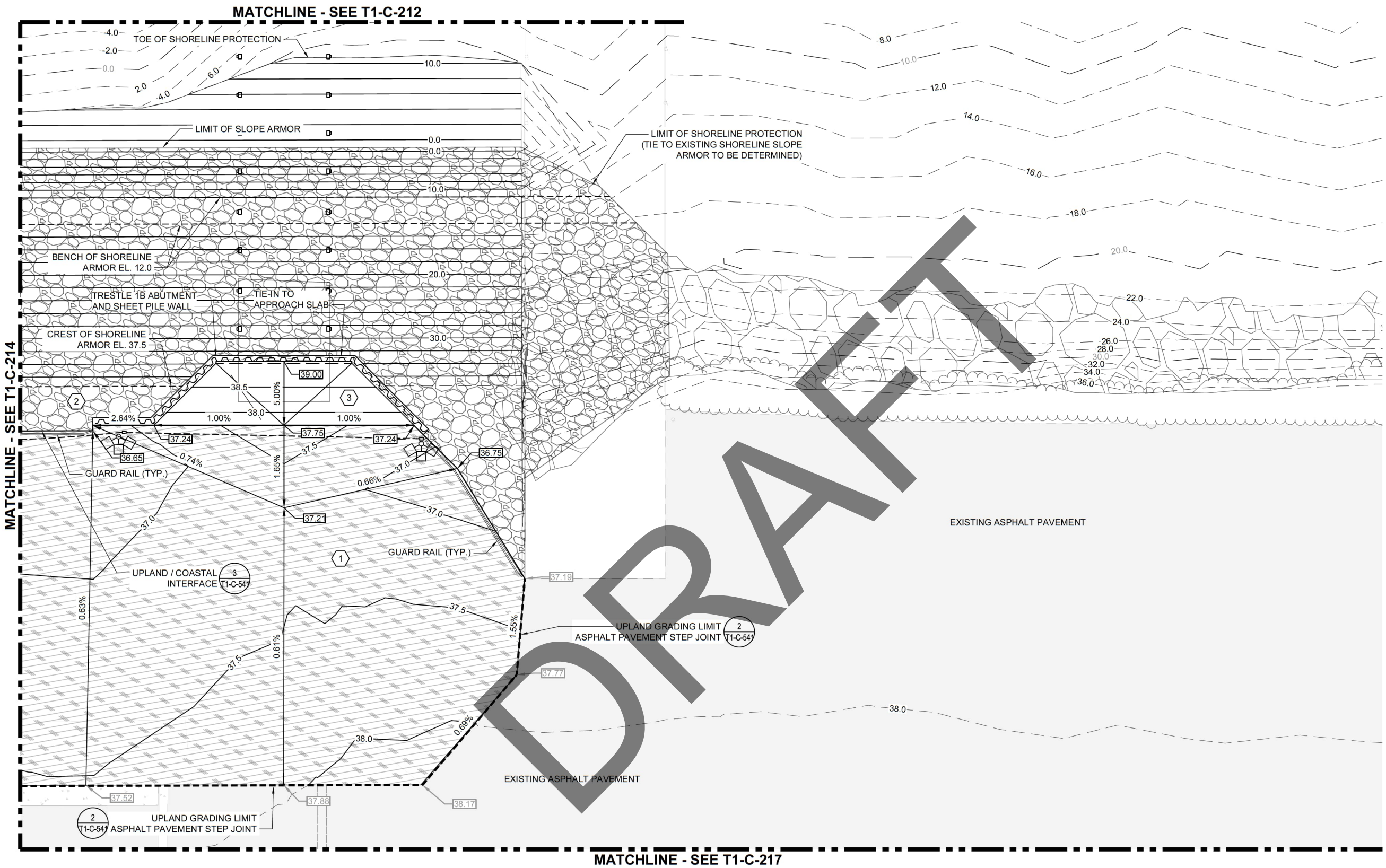
CIVIL
GRADING & DRAINAGE UPLAND (2 OF 5)

PORT OF ALASKA
PORT OF ALASKA MODERNIZATION PROGRAM
CARGO TERMINAL 1 DESIGN
ANCHORAGE, ALASKA

HORIZ SCALE: 1"=20' DATE: SEPT 1, 2023
VERT SCALE: SHEET: OF T1-C-214

PRELIMINARY. NOT FOR USE IN DEVELOPING CONSTRUCTION BIDS

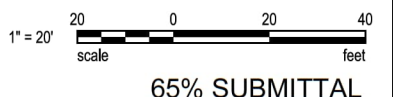
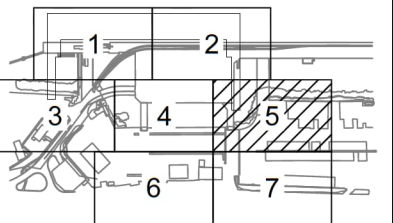
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- CIVIL GRADING NOTES**
- BREAKLINES ARE CONSIDERED TO HAVE CONSTANT SLOPES BETWEEN ELEVATION POINTS.
 - FOR EXISTING CIVIL LEGEND, REFER TO DRAWING T1-V-002
 - FOR PROPOSED CIVIL LEGEND, REFER TO DRAWING T1-C-001

- SHEET KEYNOTES**
- FOR UPLAND PAVEMENT DETAILS SEE DRAWING T1-C-541.
 - FOR COASTAL SHORE ARMOR, REFER TO DRAWINGS T1-C-251, T1-C-351 & T1-C-551
 - FOR STRUCTURAL ABUTMENT, APPROACH SLAB AND SHEET PILE, REFER TO DRAWINGS T1-S-718 & T1-S-719
 - FOR STORM SYSTEM DRAINAGE DETAILS, REFER TO DRAWINGS T1-C-811 & T1-C-812

- GRADING LEGEND**
- 10 - EXISTING MAJOR CONTOUR
 - 10 - EXISTING MINOR CONTOUR
 - 36.00 - EXISTING SURFACE ELEVATION
 - 1.00% - EXISTING SURFACE SLOPE
 - 10 - MAJOR CONTOUR
 - 10 - MINOR CONTOUR
 - 36.00 - SURFACE ELEVATION
 - 1.00% - SURFACE SLOPE
 - sd - STORM DRAIN PIPE
 - STORM DRAIN OUTFALL
 - STORM DRAIN MANHOLE
 - STORM DRAIN CATCHBASIN
 - ASPHALT PAVEMENT
 - INFILL AREA
 - SHORE ARMOR
 - GRAVEL SURFACE
 - CONCRETE PAD
 - ASPHALT JOINT
 - BOLLARD
 - GUARDRAIL



65% SUBMITTAL

REV	DATE	DESCRIPTION	BY	APVD

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

GHD **wsp**

GHD-WSP JV
1400 W. BENSON BLVD, SUITE 400
ANCHORAGE, ALASKA 99503
AK ENGINEERING LICENSE # 197742(GHD) - AECC236(WSP) AK BUSINESS LICENSE # 2164152(GHD) - 1113511(WSP)

DSGN: AEM DR: DJW CHK: AWC APVD: VHN

CONSULTANT

PORT OF ALASKA



CIVIL
GRADING & DRAINAGE UPLAND (3 OF 5)

PORT OF ALASKA
PORT OF ALASKA MODERNIZATION PROGRAM
CARGO TERMINAL 1 DESIGN
ANCHORAGE, ALASKA

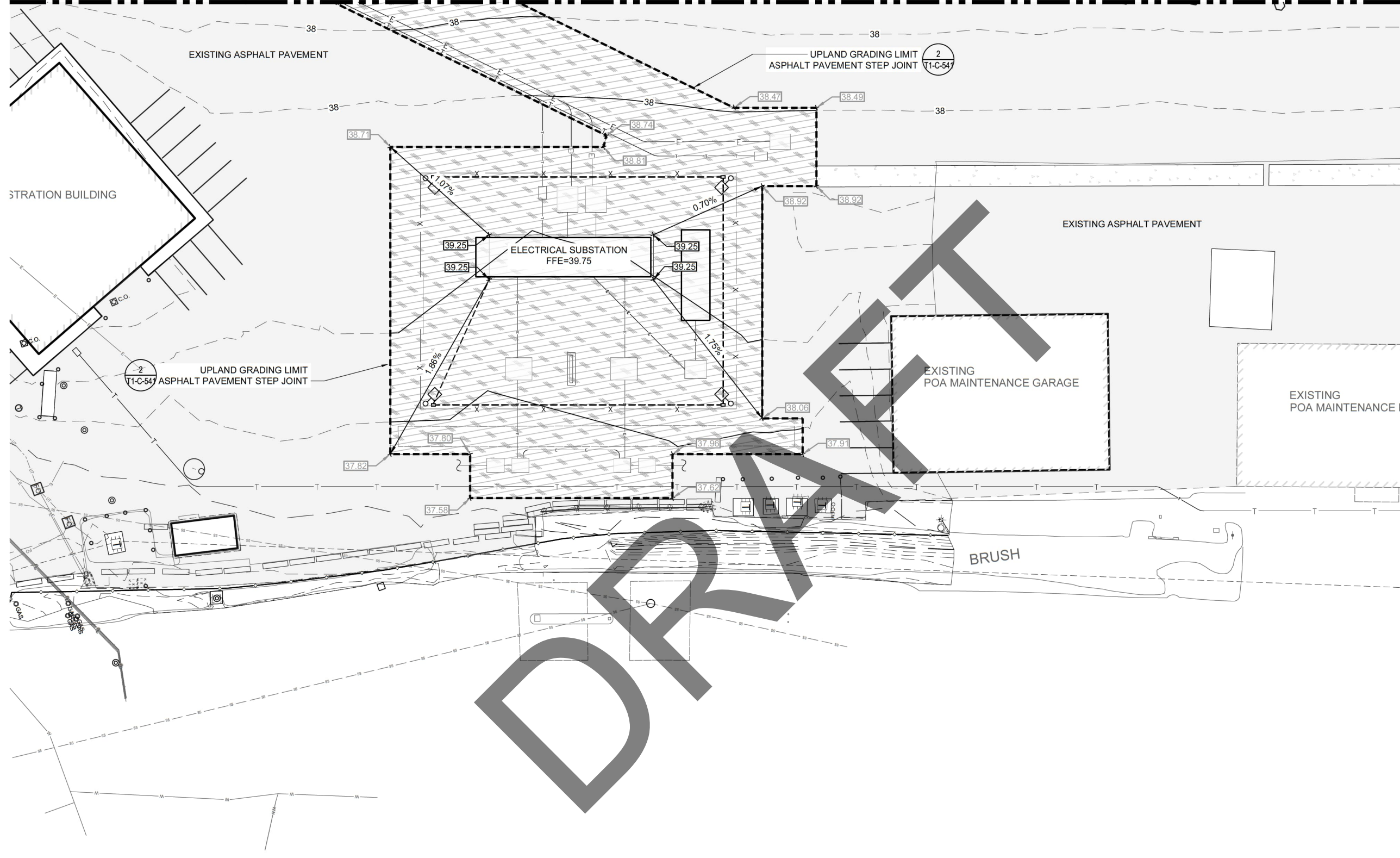
HORIZ SCALE: 1"=20'
DATE: SEPT 1, 2023
VERT SCALE: SHEET: OF

T1-C-215

PRELIMINARY. NOT FOR USE IN DEVELOPING CONSTRUCTION BIDS

MATCHLINE - SEE T1-C-213

MATCHLINE - SEE T1-C-214



CIVIL GRADING NOTES

- BREAKLINES ARE CONSIDERED TO HAVE CONSTANT SLOPES BETWEEN ELEVATION POINTS.
- FOR EXISTING CIVIL LEGEND, REFER TO DRAWING T1-V-002
- FOR PROPOSED CIVIL LEGEND, REFER TO DRAWING T1-C-001

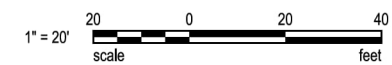
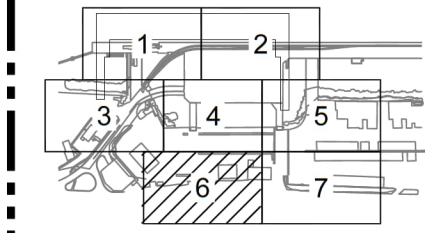
SHEET KEYNOTES

- FOR UPLAND PAVEMENT DETAILS SEE DRAWING T1-C-541.
- FOR COASTAL SHORE ARMOR, REFER TO DRAWINGS T1-C-251, T1-C-351 & T1-C-551
- FOR STRUCTURAL ABUTMENT, APPROACH SLAB AND SHEET PILE, REFER TO DRAWINGS T1-S-718 & T1-S-719
- FOR STORM SYSTEM DRAINAGE DETAILS, REFER TO DRAWINGS T1-C-811 & T1-C-812

GRADING LEGEND

- 10 - EXISTING MAJOR CONTOUR
- 10 - EXISTING MINOR CONTOUR
- 36.00 - EXISTING SURFACE ELEVATION
- 1.00% - EXISTING SURFACE SLOPE
- 10 - MAJOR CONTOUR
- 10 - MINOR CONTOUR
- 36.00 - SURFACE ELEVATION
- 1.00% - SURFACE SLOPE
- SD - STORM DRAIN PIPE
- STORM DRAIN OUTFALL
- STORM DRAIN MANHOLE
- STORM DRAIN CATCHBASIN
- ASPHALT PAVEMENT
- INFILL AREA
- SHORE ARMOR
- GRAVEL SURFACE
- CONCRETE PAD
- ASPHALT JOINT
- BOLLARD
- GUARDRAIL

MATCHLINE - SEE T1-C-217



65% SUBMITTAL

GRADING & DRAINAGE PLAN - UPLAND

SCALE: 1" = 20'



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REV	DATE	DESCRIPTION	BY	APVD

GHD-WSP JV
1400 W. BENSON BLVD, SUITE 400
ANCHORAGE, ALASKA 99503
AK ENGINEERING LICENSE # 197742(GHD) - AECC236(WSP)
AK BUSINESS LICENSE # 2164152(GHD) - 1113511(WSP)

WSP

DSGN	DR	CHK	APVD
AEM	DJW	AWC	VHN
CONSULTANT			
SEAL			

CIVIL

GRADING & DRAINAGE
UPLAND (4 OF 5)

PORT OF ALASKA

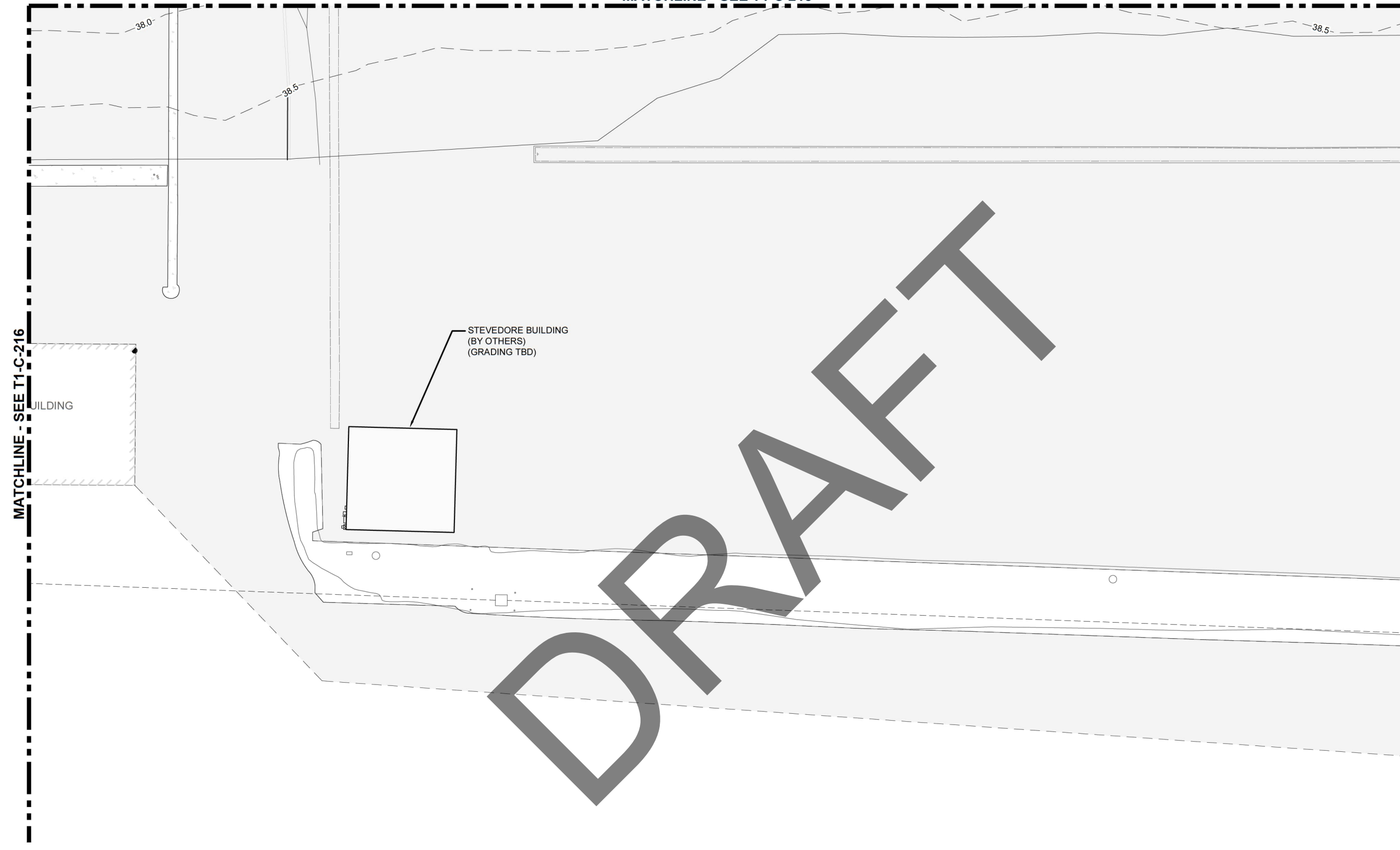
PORT OF ALASKA MODERNIZATION PROGRAM
CARGO TERMINAL 1 DESIGN
ANCHORAGE, ALASKA

HORIZ SCALE: 1"=20'	DATE: SEPT 1, 2023	T1-C-216
VERT SCALE:	SHEET: OF	

PRELIMINARY. NOT FOR USE IN DEVELOPING CONSTRUCTION BIDS

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MATCHLINE - SEE T1-C-215



CIVIL GRADING NOTES

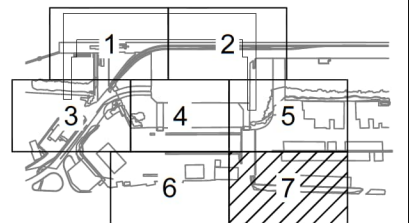
1. BREAKLINES ARE CONSIDERED TO HAVE CONSTANT SLOPES BETWEEN ELEVATION POINTS.
2. FOR EXISTING CIVIL LEGEND, REFER TO DRAWING T1-V-002
3. FOR PROPOSED CIVIL LEGEND, REFER TO DRAWING T1-C-001
4. STEVEDORE BUILDING LOCATION AND FOOTPRINT TO BE DETERMINED.

SHEET KEYNOTES

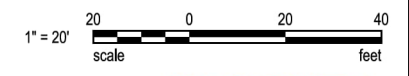
- ① FOR UPLAND PAVEMENT DETAILS SEE DRAWING T1-C-541.
- ② FOR COASTAL SHORE ARMOR, REFER TO DRAWINGS T1-C-251, T1-C-351 & T1-C-551
- ③ FOR STRUCTURAL ABUTMENT, APPROACH SLAB AND SHEET PILE, REFER TO DRAWINGS T1-S-718 & T1-S-719
- ④ FOR STORM SYSTEM DRAINAGE DETAILS, REFER TO DRAWINGS T1-C-811 & T1-C-812

GRADING LEGEND

- 10 - EXISTING MAJOR CONTOUR
- 10 - EXISTING MINOR CONTOUR
- 36.00 EXISTING SURFACE ELEVATION
- 1.00% EXISTING SURFACE SLOPE
- 10 MAJOR CONTOUR
- 10 MINOR CONTOUR
- 36.00 SURFACE ELEVATION
- 1.00% SURFACE SLOPE
- sd STORM DRAIN PIPE
- STORM DRAIN OUTFALL
- ⊙ STORM DRAIN MANHOLE
- STORM DRAIN CATCHBASIN
- ASPHALT PAVEMENT
- INFILL AREA
- SHORE ARMOR
- GRAVEL SURFACE
- CONCRETE PAD
- ASPHALT JOINT
- BOLLARD
- GUARDRAIL



KEY PLAN



65% SUBMITTAL

GRADING & DRAINAGE PLAN - UPLAND

SCALE: 1" = 20'



REV	DATE	DESCRIPTION	BY	APVD

REVISIONS

GHD-WSP JV
1400 W. BENSON BLVD, SUITE 400
ANCHORAGE, ALASKA 99503
AK ENGINEERING LICENSE # 197742(GHD) - AECC236(WSP)
AK BUSINESS LICENSE # 2164152(GHD) - 1113511(WSP)

WSP

DSGN	DR	CHK	APVD
AEM	DJW	AWC	VHN
CONSULTANT			

CIVIL
GRADING & DRAINAGE
UPLAND (5 OF 5)

PORT OF ALASKA
PORT OF ALASKA MODERNIZATION PROGRAM
CARGO TERMINAL 1 DESIGN
ANCHORAGE, ALASKA

HORIZ SCALE: 1"=20'	DATE: SEPT 1, 2023	T1-C-217
VERT SCALE:	SHEET: OF	



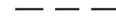





PRELIMINARY. NOT FOR USE IN DEVELOPING CONSTRUCTION BIDS

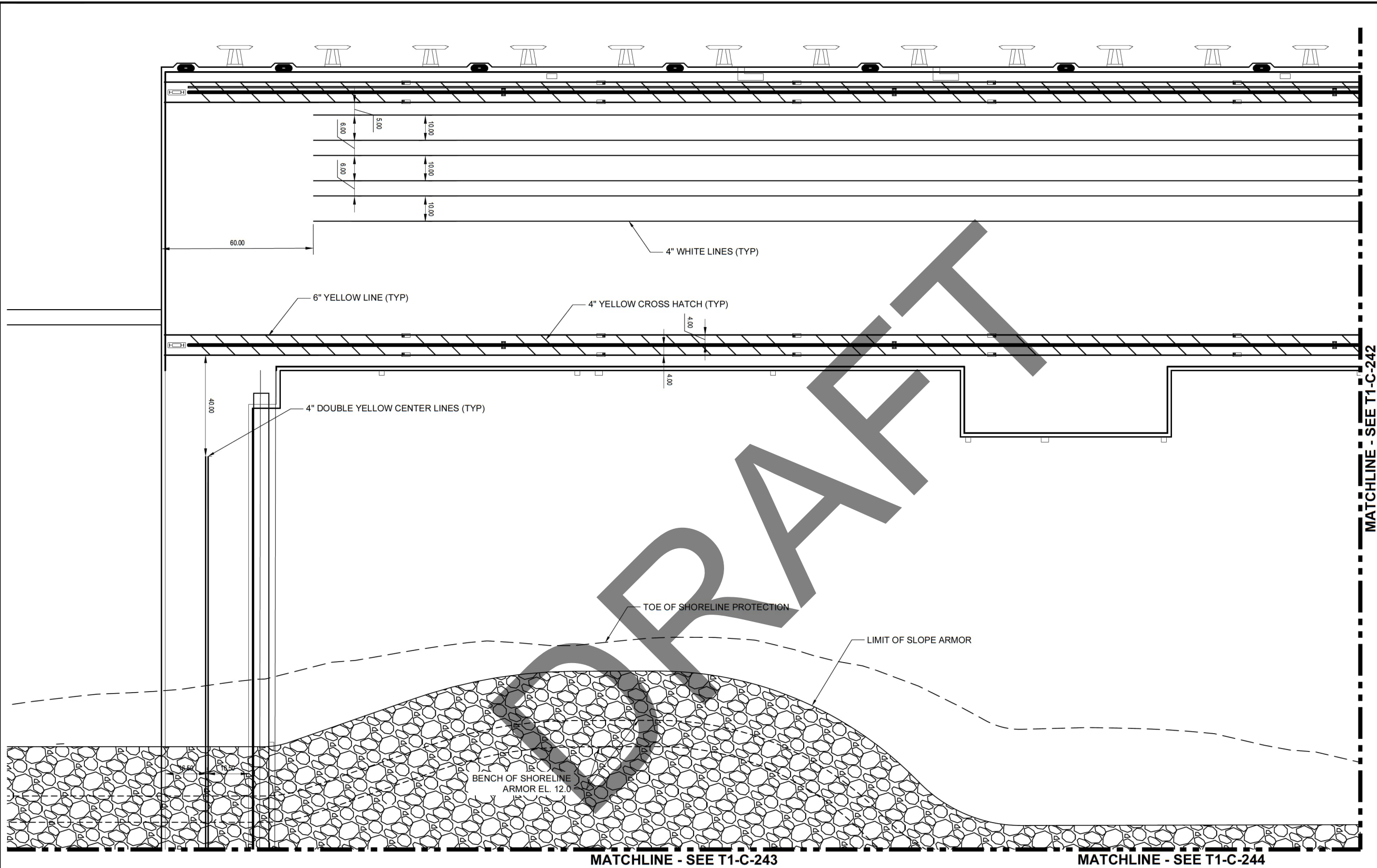
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GENERAL NOTES

REFER TO U.S. DEPARTMENT OF TRANSPORTATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR PAVEMENT MARKINGS.

PAVEMENT MARKINGS LEGEND

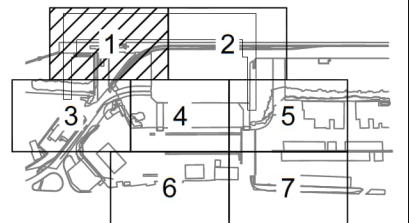
-  SOLID LANE MARKING
-  PRECAST CONCRETE WHEEL STOP
-  DASHED LANE MARKING
-  PAINTED YIELD MARKING
-  NO ACCESS OR CRANE RAIL EXCLUSION AREA
-  CROSS WALK MARKING
-  ACCESSIBLE PARKING SPACE
-  TRAFFIC SIGN



MATCHLINE - SEE T1-C-242

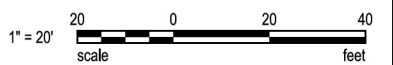
MATCHLINE - SEE T1-C-243

MATCHLINE - SEE T1-C-244



KEY PLAN

STRIPING PLAN - WHARF
SCALE: 1" = 20'



65% SUBMITTAL

REV	DATE	DESCRIPTION	BY	APVD

REVISIONS							



GHD




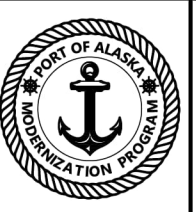
wsp

GHD-WSP JV
 1400 W. BENSON BLVD, SUITE 400
 ANCHORAGE, ALASKA 99503
 AK ENGINEERING LICENSE # 197742(GHD) - AECC236(WSP) AK BUSINESS LICENSE # 2164152(GHD) - 1113511(WSP)

DSGN	DR	CHK	APVD
AEM	DJW	AWC	VHN

CONSULTANT





CIVIL

STRIPING PLAN
WHARF (1 OF 2)

PORT OF ALASKA		
PORT OF ALASKA MODERNIZATION PROGRAM		
CARGO TERMINAL 1 DESIGN		
ANCHORAGE, ALASKA		
HORIZ SCALE: 1"=20'	DATE: SEPT 1, 2023	T1-C-241
VERT SCALE:	SHEET: OF	









PRELIMINARY. NOT FOR USE IN DEVELOPING CONSTRUCTION BIDS

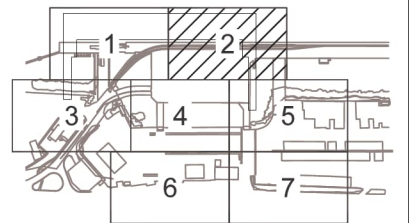
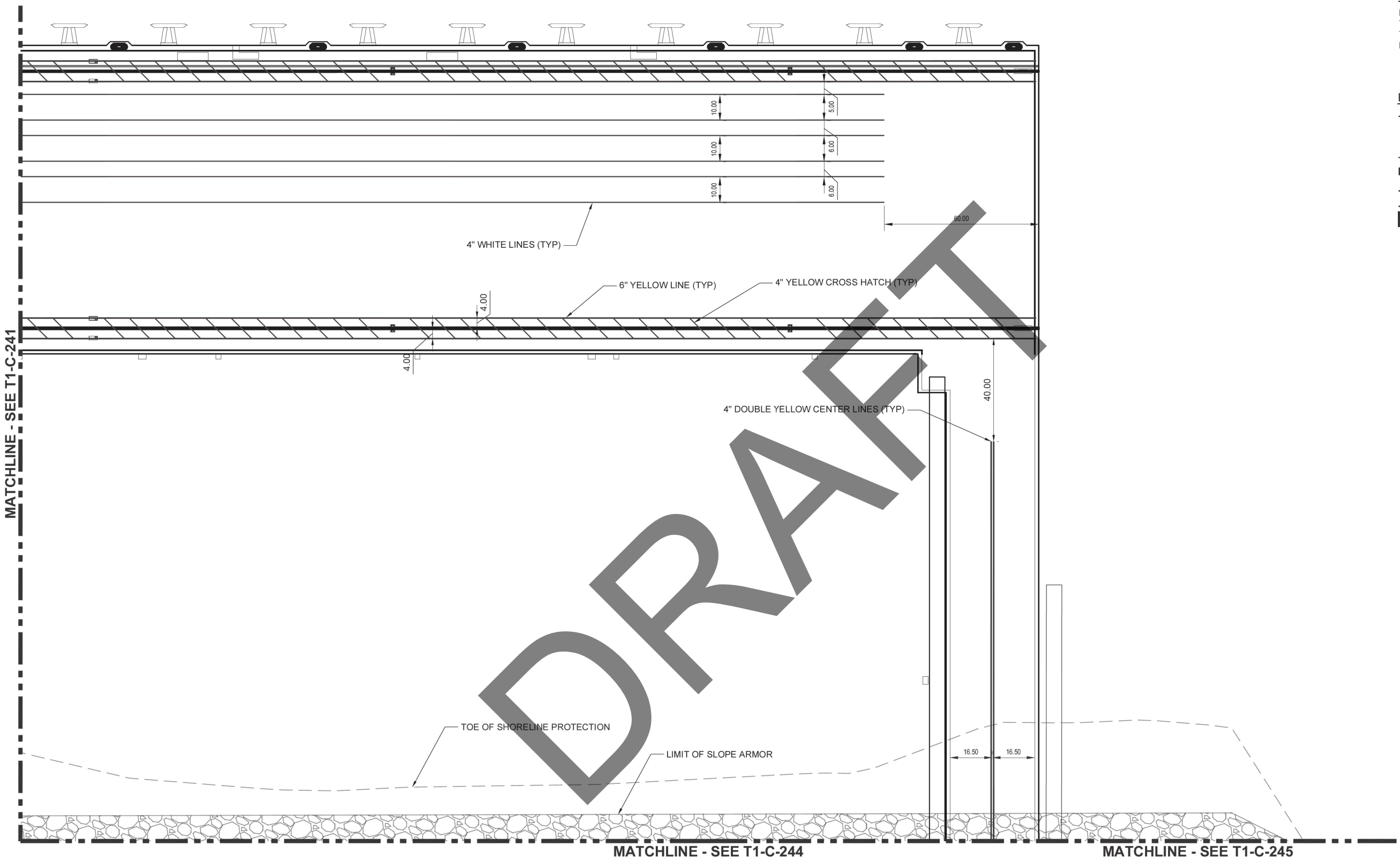
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GENERAL NOTES

REFER TO U.S. DEPARTMENT OF TRANSPORTATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR PAVEMENT MARKINGS.

PAVEMENT MARKINGS LEGEND

-  SOLID LANE MARKING
-  PRECAST CONCRETE WHEEL STOP
-  DASHED LANE MARKING
-  PAINTED YIELD MARKING
-  NO ACCESS OR CRANE RAIL EXCLUSION AREA
-  CROSS WALK MARKING
-  ACCESSIBLE PARKING SPACE
-  TRAFFIC SIGN




KEY PLAN




65% SUBMITTAL

STRIPING PLAN - WHARF
SCALE: 1" = 20'

REV	DATE	DESCRIPTION	BY	APVD





GHD-WSP JV
1400 W. BENSON BLVD, SUITE 400
ANCHORAGE, ALASKA 99503
AK ENGINEERING LICENSE # 197742(GHD) - AECC236(WSP) AK BUSINESS LICENSE # 2164152(GHD) - 1113511(WSP)



DSGN	DR	CHK	APVD
AEM	DJW	AWC	VHN

CONSULTANT

CIVIL

STRIPING PLAN
WHARF (2 OF 2)

PORT OF ALASKA

PORT OF ALASKA MODERNIZATION PROGRAM
CARGO TERMINAL 1 DESIGN
ANCHORAGE, ALASKA

HORIZ SCALE: 1"=20'	DATE: SEPT 1, 2023	T1-C-242
VERT SCALE:	SHEET: OF	

PRELIMINARY. NOT FOR USE IN DEVELOPING CONSTRUCTION BIDS

Last Saved by: Damstra2 on: Nov 13, 2023 3:30 PM File: C:\Users\damstra2\Documents\GHD Services Pty Ltd\12609907 - POA-Terminal Replacement\Project Files\01 WIP\Dwg\06_T1-C-243.dwg

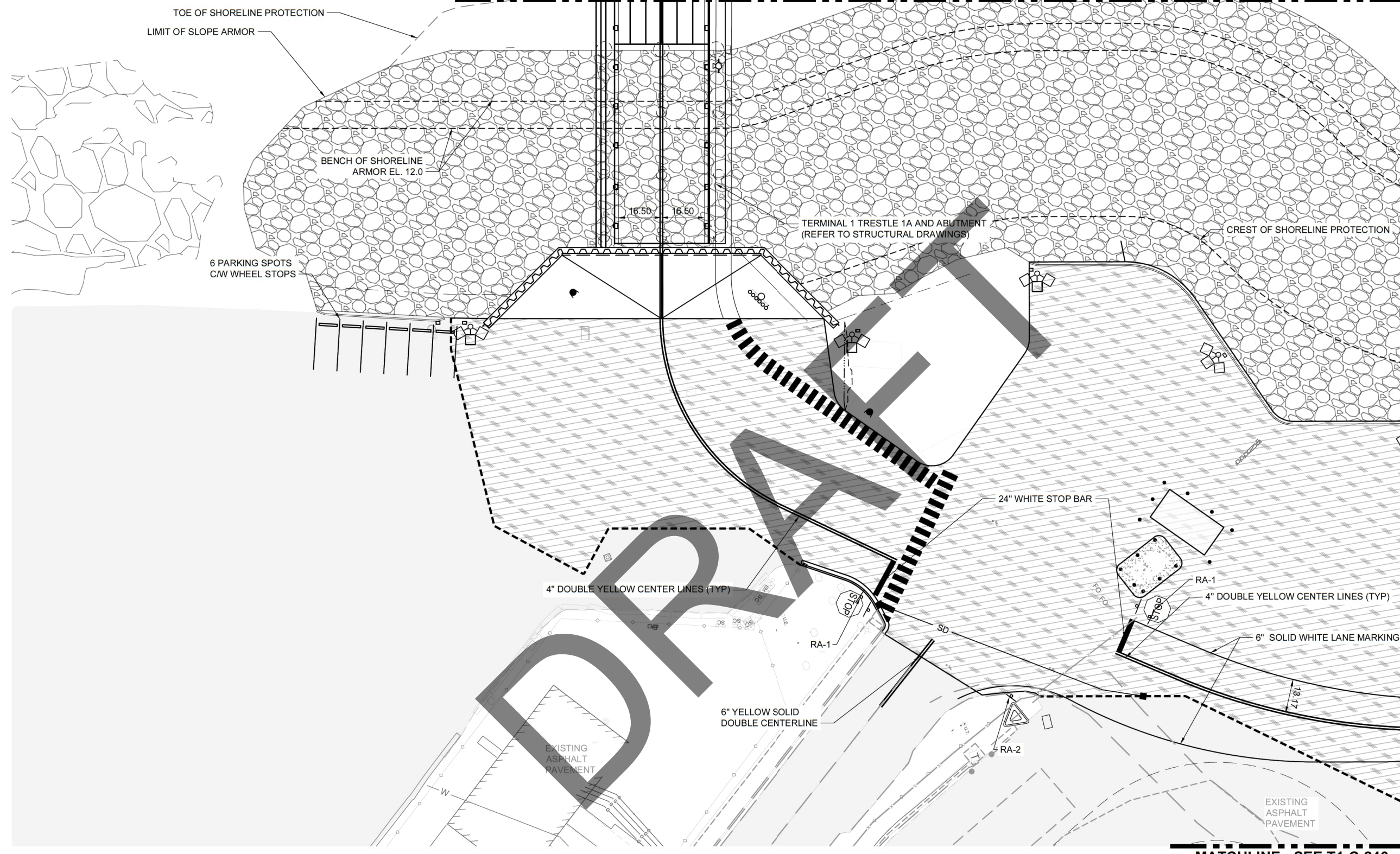
MATCHLINE - SEE T1-C-241

GENERAL NOTES

REFER TO U.S. DEPARTMENT OF TRANSPORTATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR PAVEMENT MARKINGS.

PAVEMENT MARKINGS LEGEND

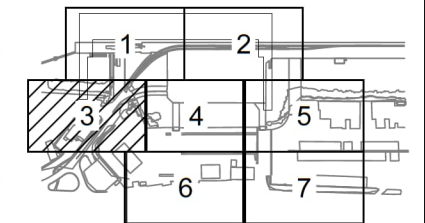
- SOLID LANE MARKING
- DASHED LANE MARKING
- PRECAST CONCRETE WHEEL STOP
- PAINTED YIELD MARKING
- NO ACCESS OR CRANE RAIL EXCLUSION AREA
- CROSS WALK MARKING
- ACCESSIBLE PARKING SPACE
- TRAFFIC SIGN



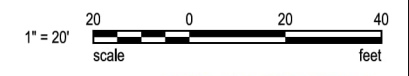
MATCHLINE - SEE T1-C-244

MATCHLINE - SEE T1-C-246

**PAVING, STRIPING & SIGNAGE PLAN
- UPLAND**
SCALE: 1" = 20'



KEY PLAN



65% SUBMITTAL

REV	DATE	DESCRIPTION	BY	APVD

REVISIONS	DATE	DESCRIPTION	BY	APVD

GHD-WSP JV
 1400 W. BENSON BLVD, SUITE 400
 ANCHORAGE, ALASKA 99503
 AK ENGINEERING LICENSE # 197742(GHD) - AECC236(WSP) AK BUSINESS LICENSE # 2164152(GHD) - 1113511(WSP)

DSGN	DR	CHK	APVD
AEM	DJW	AWC	VHN

CONSULTANT

CIVIL

PAVING, STRIPING & SIGNAGE PLAN
UPLAND (1 OF 5)

PORT OF ALASKA

PORT OF ALASKA MODERNIZATION PROGRAM
CARGO TERMINAL 1 DESIGN

ANCHORAGE, ALASKA

HORIZ SCALE: 1"=20'	DATE: SEPT 1, 2023	T1-C-243
VERT SCALE:	SHEET: OF	

PRELIMINARY. NOT FOR USE IN DEVELOPING CONSTRUCTION BIDS

Last Saved by: Damstra2 on: Nov 13, 2023 3:51 PM File: C:\Users\damstra2\OneDrive\Documents\GHD Services\Ply_Ltd\12609997 - POA-Terminal Replacement\Project Files\01 WIP\Drawings\T1-C-244.dwg







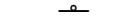

MATCHLINE - SEE T1-C-241

MATCHLINE - SEE T1-C-242

GENERAL NOTES

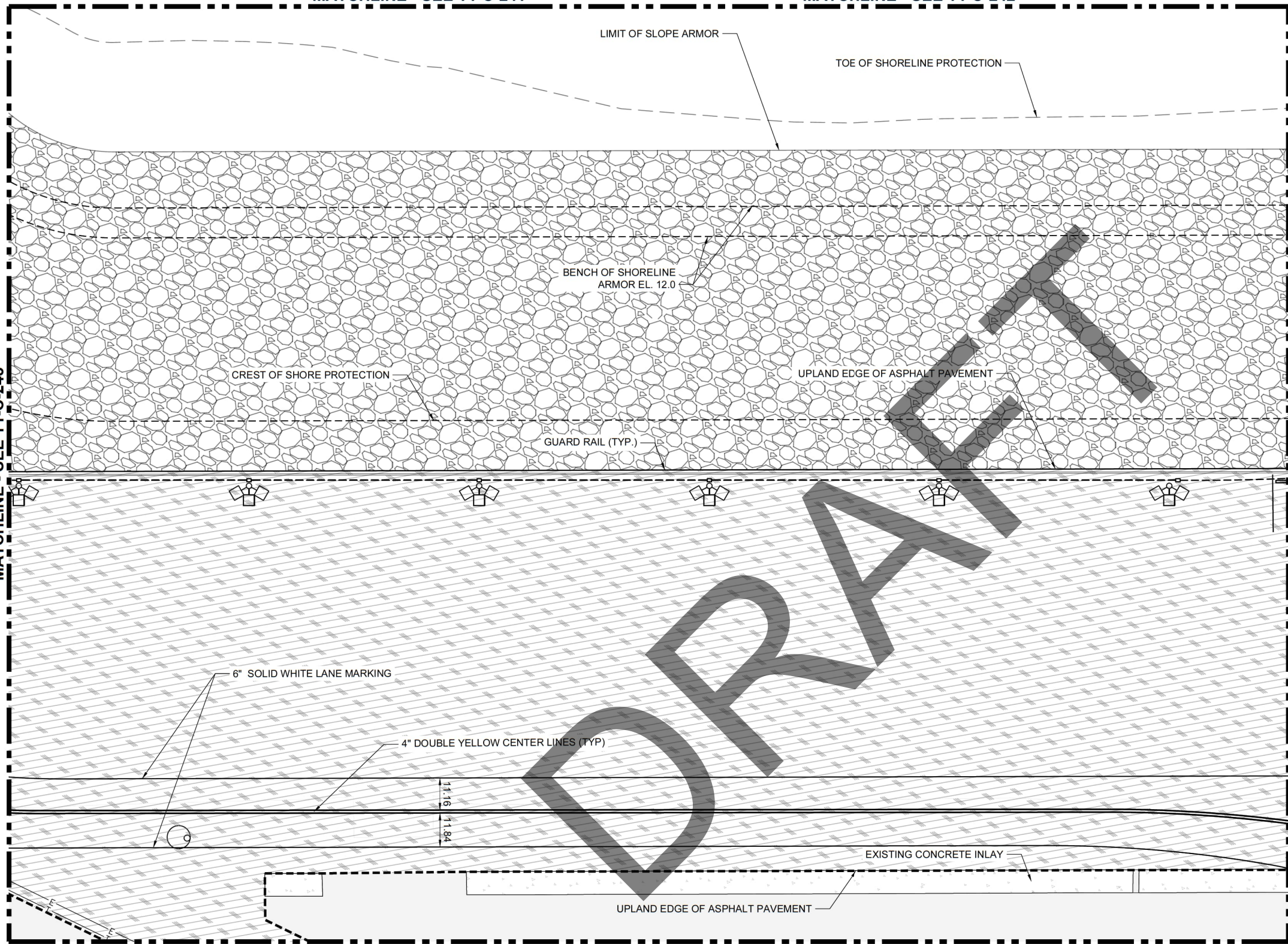
REFER TO U.S. DEPARTMENT OF TRANSPORTATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR PAVEMENT MARKINGS.

PAVEMENT MARKINGS LEGEND

-  SOLID LANE MARKING
-  DASHED LANE MARKING
-  PRECAST CONCRETE WHEEL STOP
-  PAINTED YIELD MARKING
-  NO ACCESS OR CRANE RAIL EXCLUSION AREA
-  CROSS WALK MARKING
-  ACCESSIBLE PARKING SPACE
-  TRAFFIC SIGN

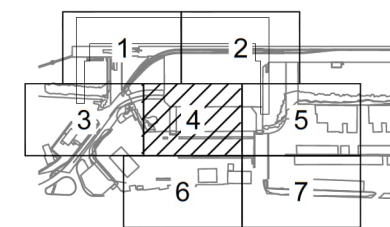
MATCHLINE - SEE T1-C-243

MATCHLINE - SEE T1-C-245



MATCHLINE - SEE T1-C-246

**PAVING, STRIPING & SIGNAGE PLAN
- UPLAND**
SCALE: 1" = 20'




KEY PLAN




65% SUBMITTAL

REV	DATE	DESCRIPTION	BY	APVD

REVISIONS







GHD-WSP JV
 1400 W. BENSON BLVD, SUITE 400
 ANCHORAGE, ALASKA 99503
 AK ENGINEERING LICENSE # 197742(GHD) - AECC236(WSP) AK BUSINESS LICENSE # 2164152(GHD) - 113511(WSP)

DSGN	DR	CHK	APVD
AEM	DJW	AWC	VHN

CONSULTANT





SEAL

CIVIL

PAVING, STRIPING, & SIGNAGE PLAN
UPLAND (2 OF 5)

PORT OF ALASKA

PORT OF ALASKA MODERNIZATION PROGRAM
CARGO TERMINAL 1 DESIGN

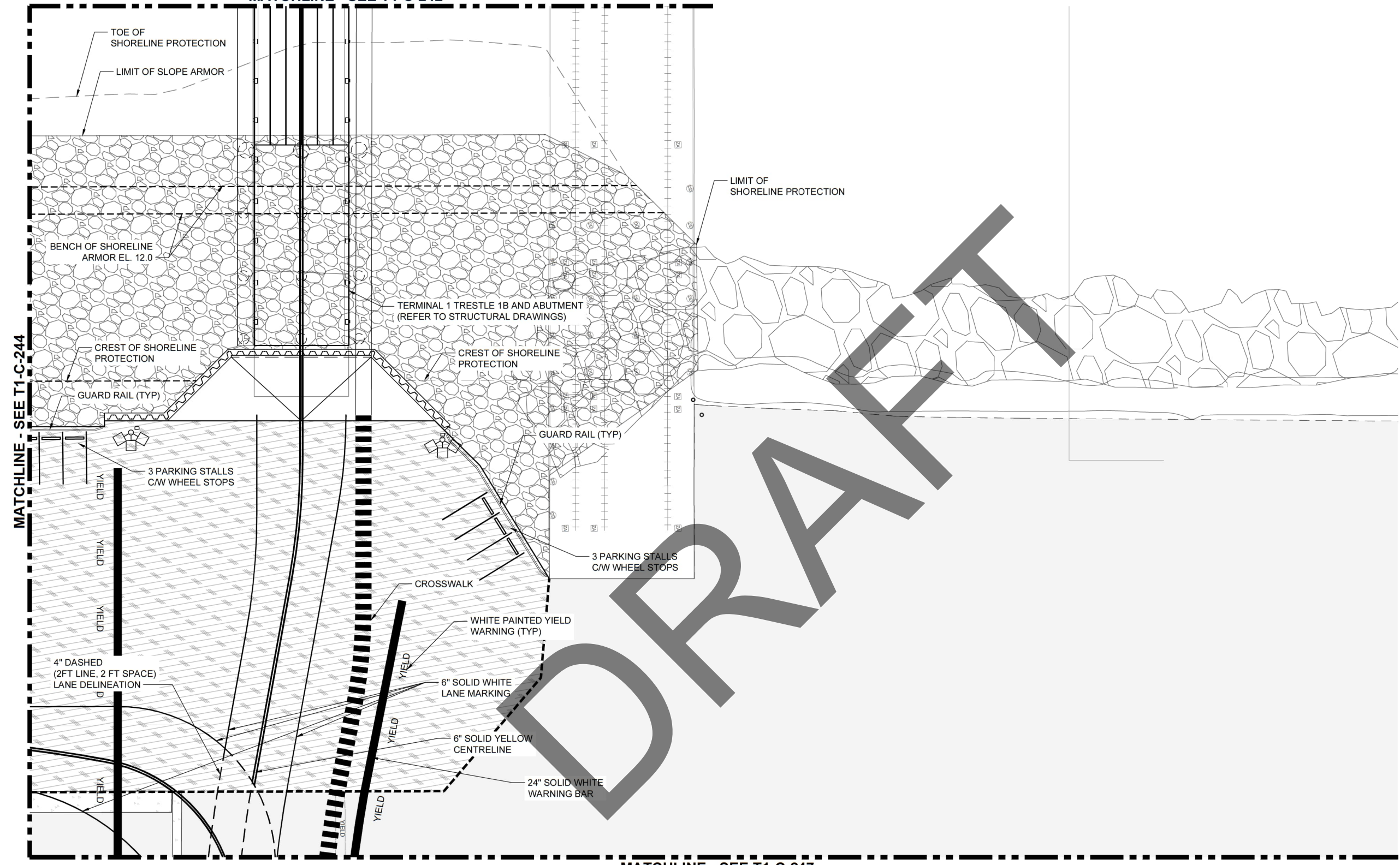
ANCHORAGE, ALASKA

HORIZ SCALE: 1"=20'	DATE: SEPT 1, 2023	T1-C-244
VERT SCALE:	SHEET: OF	

PRELIMINARY. NOT FOR USE IN DEVELOPING CONSTRUCTION BIDS

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MATCHLINE - SEE T1-C-242



GENERAL NOTES

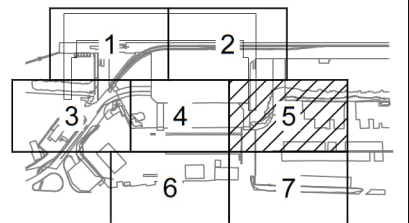
REFER TO U.S. DEPARTMENT OF TRANSPORTATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR PAVEMENT MARKINGS.

PAVEMENT MARKINGS LEGEND

- SOLID LANE MARKING
- PRECAST CONCRETE WHEEL STOP
- DASHED LANE MARKING
- PAINTED YIELD MARKING
- NO ACCESS OR CRANE RAIL EXCLUSION AREA
- CROSS WALK MARKING
- ACCESSIBLE PARKING SPACE
- TRAFFIC SIGN

MATCHLINE - SEE T1-C-247
PAVING, STRIPING & SIGNAGE PLAN

- UPLAND
SCALE: 1" = 20'



KEY PLAN



65% SUBMITTAL

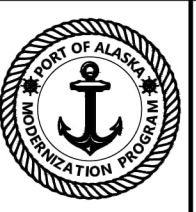
REV	DATE	DESCRIPTION	BY	APVD
REVISIONS				

GHD-WSP JV
 1400 W. BENSON BLVD, SUITE 400
 ANCHORAGE, ALASKA 99503
 AK ENGINEERING LICENSE # 197742(GHD) - AECC236(WSP) AK BUSINESS LICENSE # 2164152(GHD) - 1113511(WSP)

DSGN	DR	CHK	APVD
AEM	DJW	AWC	VHN

CONSULTANT

SEAL



CIVIL

PAVING, STRIPING & SIGNAGE PLAN
UPLAND (3 OF 5)

PORT OF ALASKA

PORT OF ALASKA MODERNIZATION PROGRAM
CARGO TERMINAL 1 DESIGN
ANCHORAGE, ALASKA

HORIZ SCALE: 1"=20'	DATE: SEPT 1, 2023	T1-C-245
VERT SCALE:	SHEET: OF	

PRELIMINARY. NOT FOR USE IN DEVELOPING CONSTRUCTION BIDS


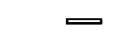
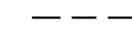
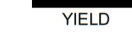





MATCHLINE - SEE T1-C-243

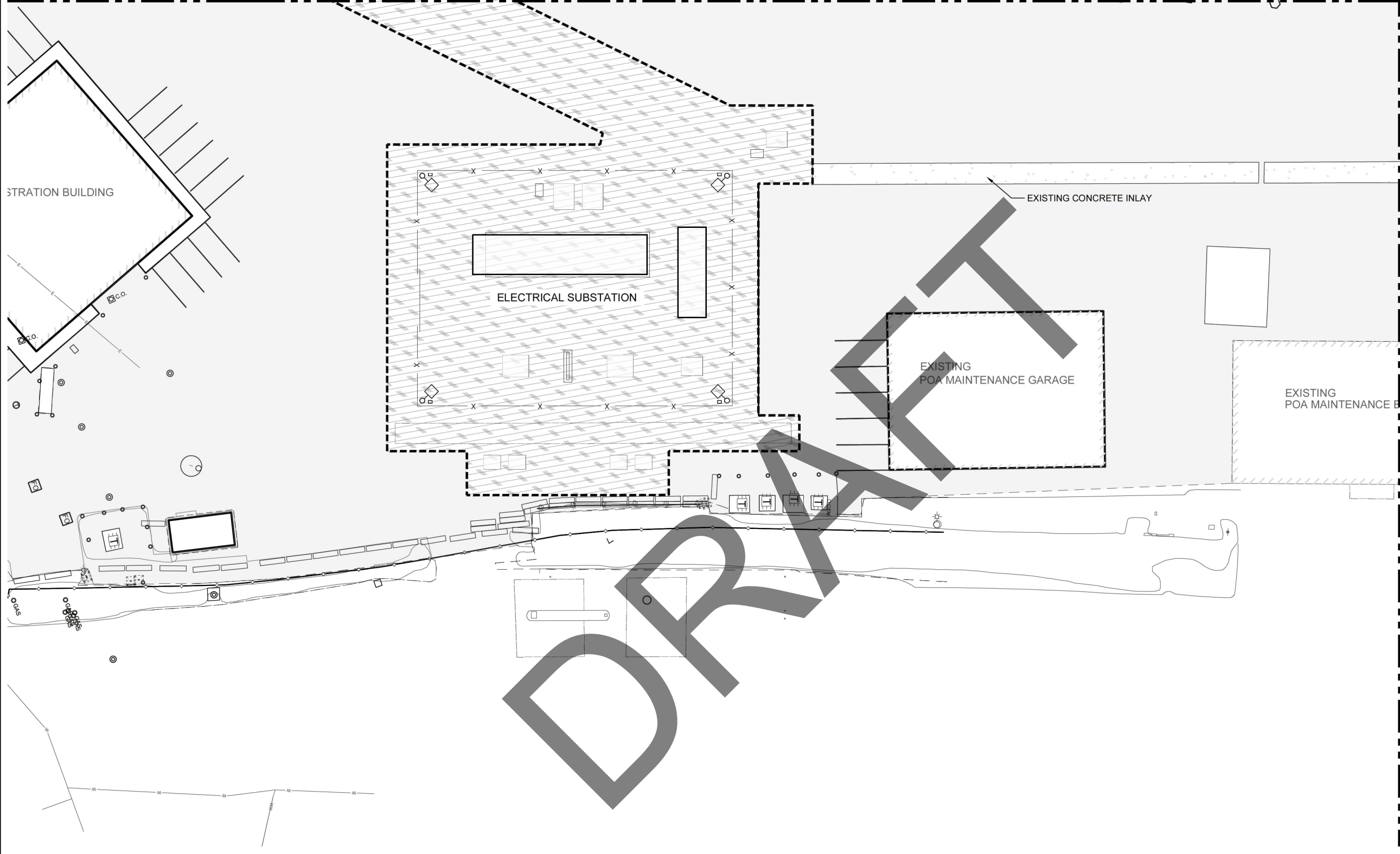
MATCHLINE - SEE T1-C-244

GENERAL NOTES

1. REFER TO U.S. DEPARTMENT OF TRANSPORTATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR PAVEMENT MARKINGS.
2. THERE IS NO STRIPING ON THIS SHEET.

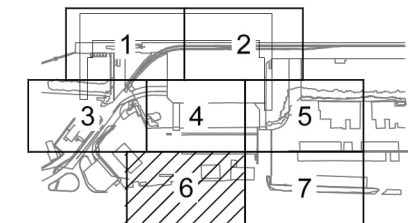
PAVEMENT MARKINGS LEGEND

-  SOLID LANE MARKING
-  PRECAST CONCRETE WHEEL STOP
-  DASHED LANE MARKING
-  YIELD
-  PAINTED YIELD MARKING
-  NO ACCESS OR CRANE RAIL EXCLUSION AREA
-  CROSS WALK MARKING
-  ACCESSIBLE PARKING SPACE
-  TRAFFIC SIGN



MATCHLINE - SEE T1-C-247

PAVING, STRIPING & SIGNAGE PLAN
- UPLAND
 SCALE: 1" = 20'




KEY PLAN




65% SUBMITTAL

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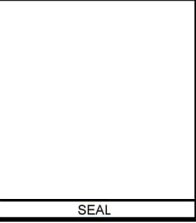
REV	DATE	DESCRIPTION	BY	APVD





GHD-WSP JV
 1400 W. BENSON BLVD, SUITE 400
 ANCHORAGE, ALASKA 99503
 AK ENGINEERING LICENSE # 197742(GHD) - AECC236(WSP) AK BUSINESS LICENSE # 2164152(GHD) - 113511(WSP)

DSGN	DR	CHK	APVD
AEM	DJW	AWC	VHN
CONSULTANT		SEAL	



CIVIL

PAVING, STRIPING & SIGNAGE PLAN
UPLAND (4 OF 5)

PORT OF ALASKA

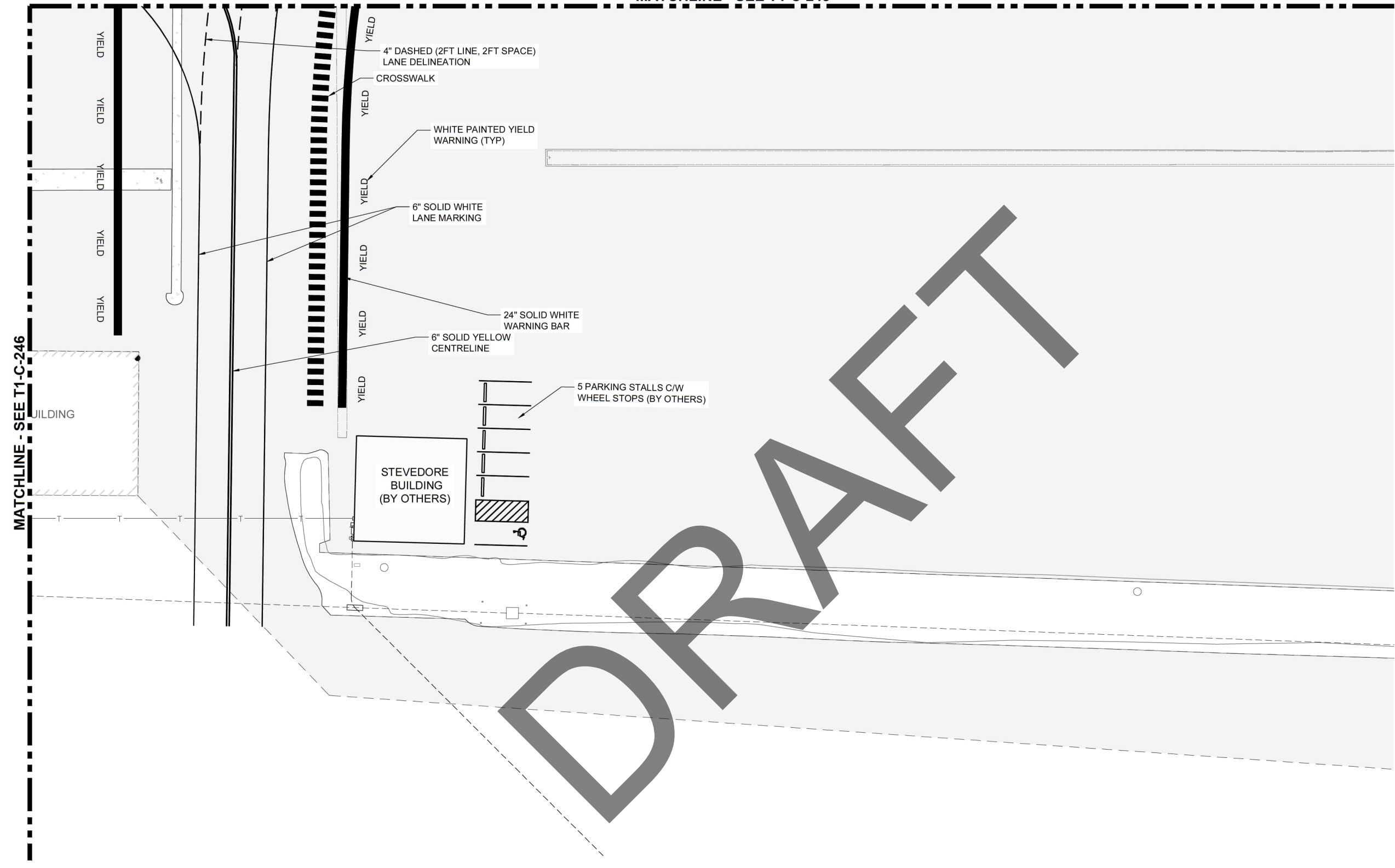
PORT OF ALASKA MODERNIZATION PROGRAM
CARGO TERMINAL 1 DESIGN
ANCHORAGE, ALASKA

HORIZ SCALE: 1"=20'	DATE: SEPT 1, 2023	T1-C-246
VERT SCALE:	SHEET: OF	

PRELIMINARY. NOT FOR USE IN DEVELOPING CONSTRUCTION BIDS

Last Saved by: Damir2 on: Nov 14, 2023 2:34 PM File: C:\Users\damir2\OneDrive\Documents\GHD\Projects\Port of Alaska\Terminal Replacement\Project Files\01 WIP\Drawings\T1-C-247.dwg

MATCHLINE - SEE T1-C-245



GENERAL NOTES

- REFER TO U.S. DEPARTMENT OF TRANSPORTATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR PAVEMENT MARKINGS.
- STEVEDORE BUILDING LOCATION AND FOOTPRINT TO BE DETERMINED.

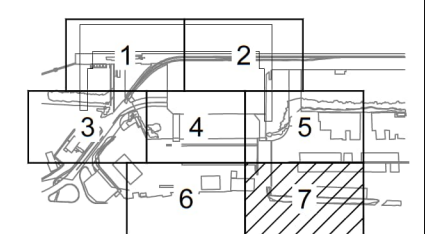
PAVEMENT MARKINGS LEGEND

- SOLID LANE MARKING
- PRECAST CONCRETE WHEEL STOP
- DASHED LANE MARKING
- PAINTED YIELD MARKING
- NO ACCESS OR CRANE RAIL EXCLUSION AREA
- CROSS WALK MARKING
- ACCESSIBLE PARKING SPACE
- TRAFFIC SIGN

MATCHLINE - SEE T1-C-246

DRAFT

**PAVING, STRIPING & SIGNAGE PLAN
- UPLAND**
SCALE: 1" = 20'

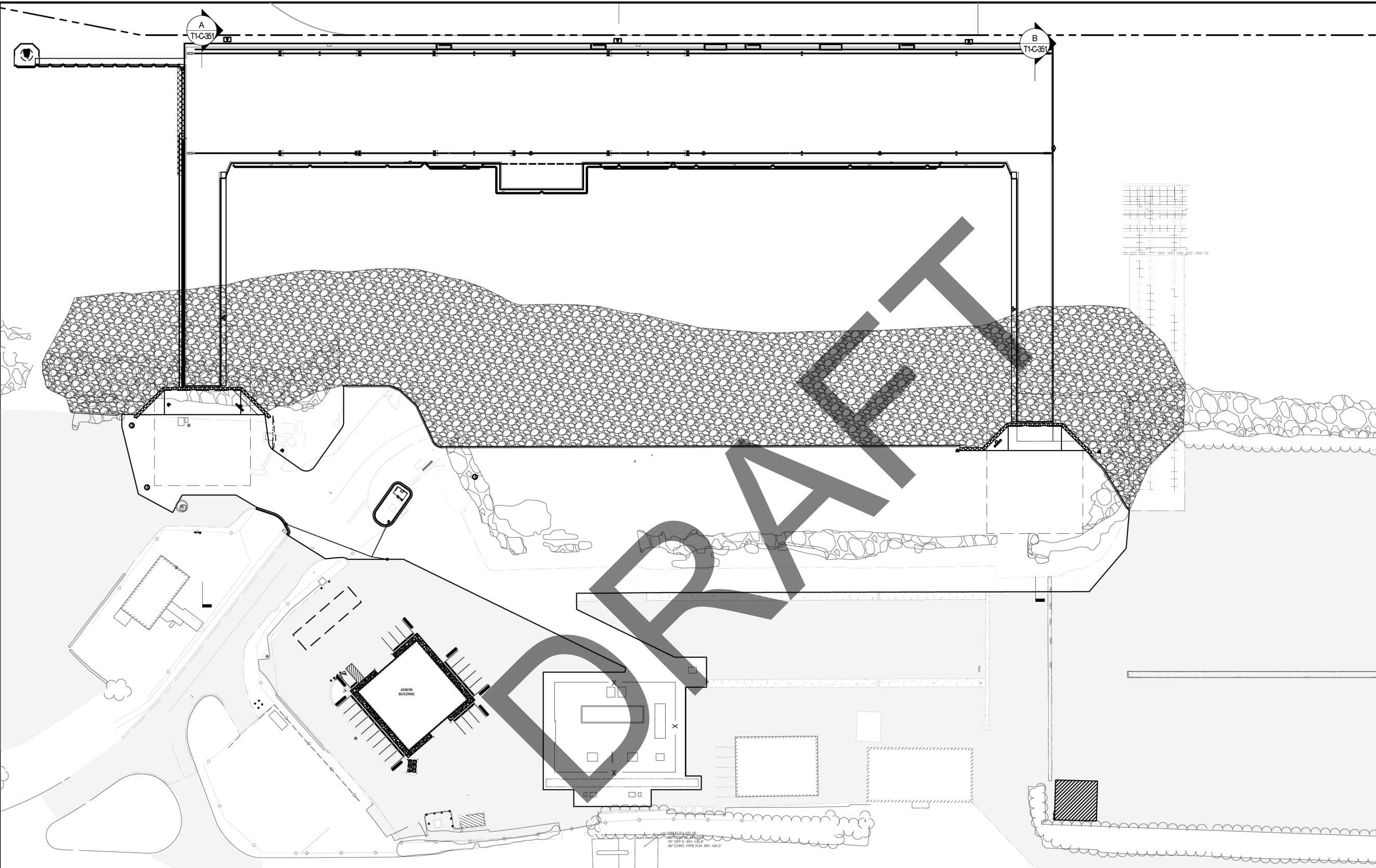


65% SUBMITTAL

<p>VERIFY SCALES</p> <p>BAR IS ONE INCH ON ORIGINAL DRAWING</p> <p>IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.</p>	REV	DATE	DESCRIPTION	BY	APVD	 <small>GHD-WSP JV 1400 W. BENSON BLVD, SUITE 400 ANCHORAGE, ALASKA 99503 AK ENGINEERING LICENSE # 197742(GHD) - AECC238(WSP) AK BUSINESS LICENSE # 2164152(GHD) - 113511(WSP)</small>			<p>CIVIL</p> <p>PAVING, STRIPING & SIGNAGE PLAN UPLAND (5 OF 5)</p>	PORT OF ALASKA			
										PORT OF ALASKA MODERNIZATION PROGRAM			
										CARGO TERMINAL 1 DESIGN			
REVISIONS						DSGN AEM	DR DJW	CHK AWC	APVD VHN	SEAL	ANCHORAGE, ALASKA	T1-C-247	
									HORIZ SCALE: 1"=20'	DATE: OCT. 6, 2023		SHEET: OF	
									VERT SCALE:				

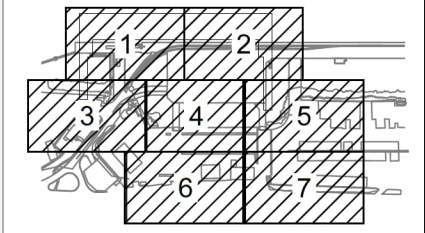
PRELIMINARY. NOT FOR USE IN DEVELOPING CONSTRUCTION BIDS

Last Saved by: jortiz on: Oct 27, 2023 10:33 PM File: C:\Users\jortiz\Documents\GHD Services Pty Ltd\2608997 - POA-Terminal Replacement\Project Files\01 WIP\Drawings\T1-C-251.dwg

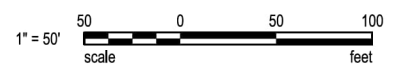


- GENERAL CIVIL NOTES**
- COORDINATE SITE WORKS WITH DEMOLITION DRAWINGS
 - REFER TO UTILITY DRAWING FOR WATER AND FIRE PROTECTION LAYOUT AND DETAILS.
 - REFER TO ELECTRICAL DRAWINGS FOR SUBSTATION AND POWER SUPPLY LAYOUT AND DETAILS.

LEGEND



SHORELINE PROTECTION PLAN
SCALE: 1" = 50'



65% SUBMITTAL

REV	DATE	DESCRIPTION	BY	APVD

REVISIONS

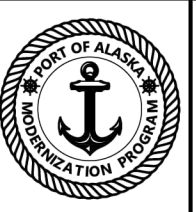
DSGN

DR DW

CHK

APVD

SEAL



CIVIL

SHORELINE PROTECTION PLAN

PORT OF ALASKA

PORT OF ALASKA MODERNIZATION PROGRAM

CARGO TERMINAL 1 DESIGN

ANCHORAGE, ALASKA

HORIZ SCALE: 1"=50'

DATE: SEPT 1, 2023

VERT SCALE:

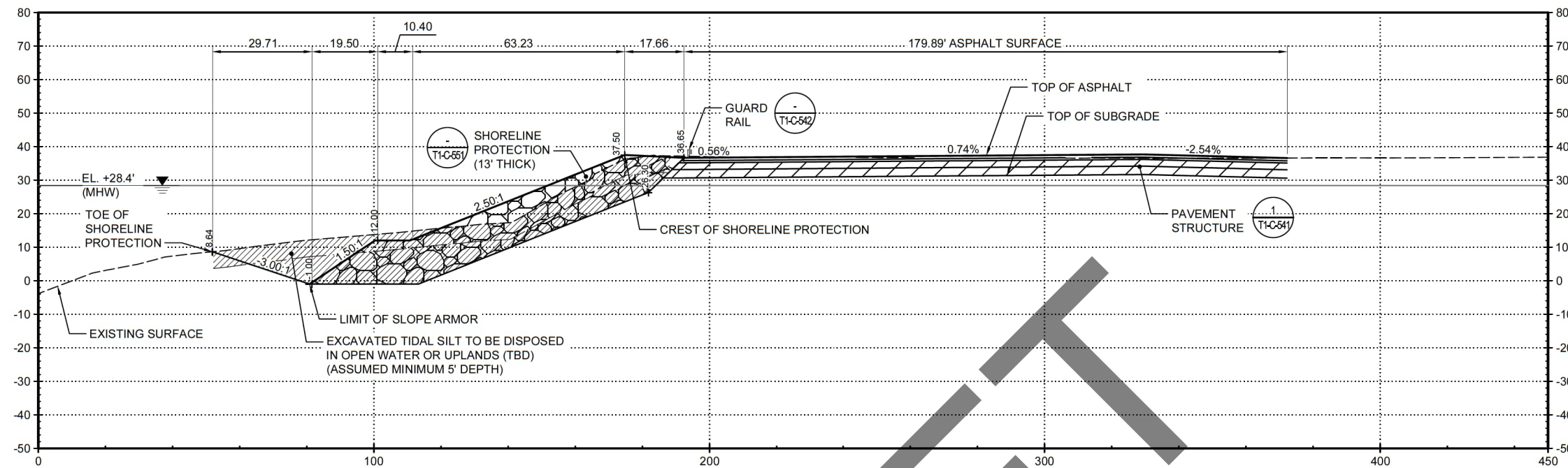
SHEET: OF

T1-C-251

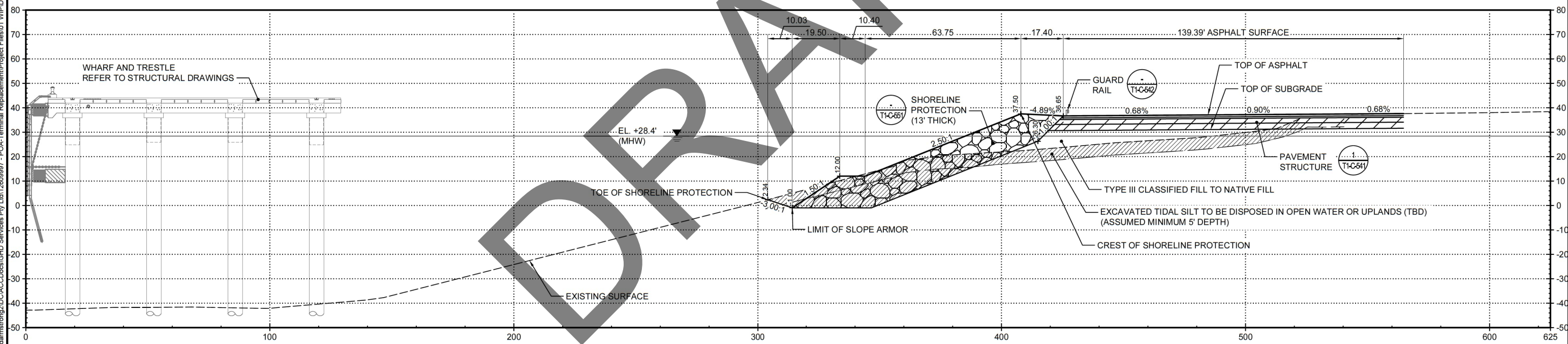
PRELIMINARY. NOT FOR USE IN DEVELOPING CONSTRUCTION BIDS

GENERAL CIVIL NOTES

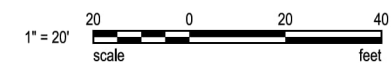
1. UNSUITABLE MATERIAL (ORGANICS OR SILT) WITHIN THE AREA OF THE SHORELINE INFILL ARE TO BE EXCAVATED, REMOVED, AND DISPOSED.



A UPLAND AND ROAD SECTION
SCALE: 1" = 20'
T1-C-200, T1-C-203



B UPLAND EXPANSION SECTION
SCALE: 1" = 20'
T1-C-200, T1-C-204



65% SUBMITTAL

Last Saved by: Damstra2 on: Nov 13, 2023 12:02 PM File: C:\Users\damstra2\OneDrive\GHD\Projects\Port of Alaska\Terminal Replacement\Project Files\01_WIP\Drawings\T1-C-312.dwg

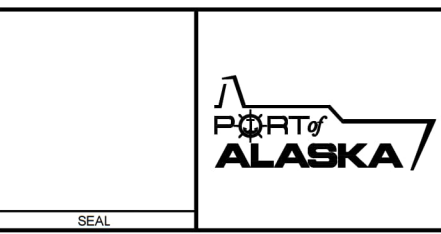
REV	DATE	DESCRIPTION	BY	APVD

REVISIONS

GHD-WSP JV
1400 W. BENSON BLVD, SUITE 400
ANCHORAGE, ALASKA 99503
AK ENGINEERING LICENSE # 197742(GHD) - AECC236(WSP)
AK BUSINESS LICENSE # 2164152(GHD) - 113511(WSP)

DR DJW
CHK AWC
APVD VHN

CONSULTANT



CIVIL
SECTIONS - UPLAND
(1 OF 2)

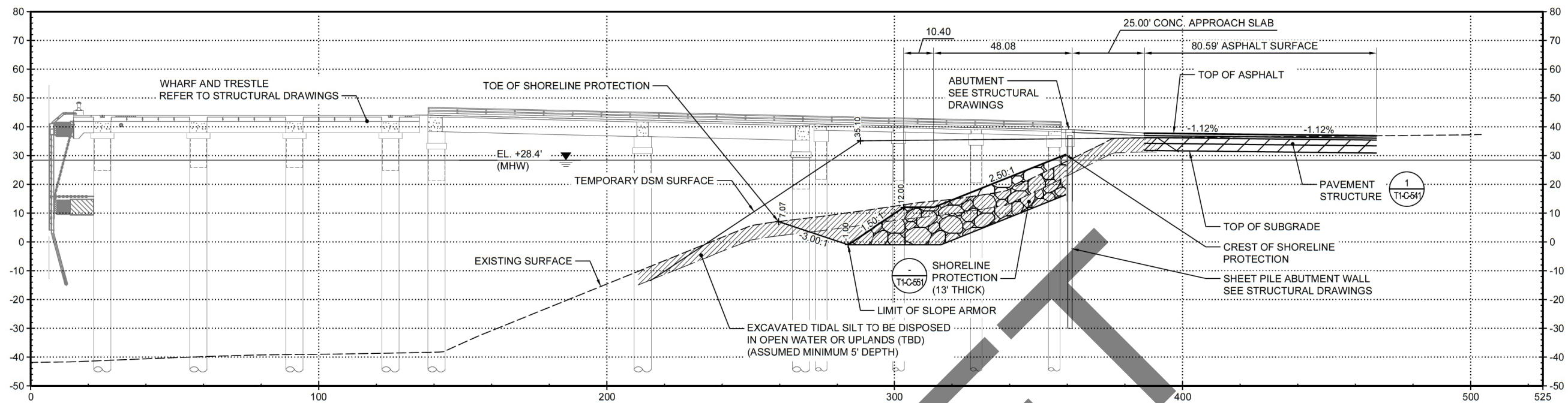
PORT OF ALASKA
PORT OF ALASKA MODERNIZATION PROGRAM
CARGO TERMINAL 1 DESIGN
ANCHORAGE, ALASKA

HORIZ SCALE: 1"=20'	DATE: SEPT 1, 2023	T1-C-312
VERT SCALE: 1"=20'	SHEET: OF	

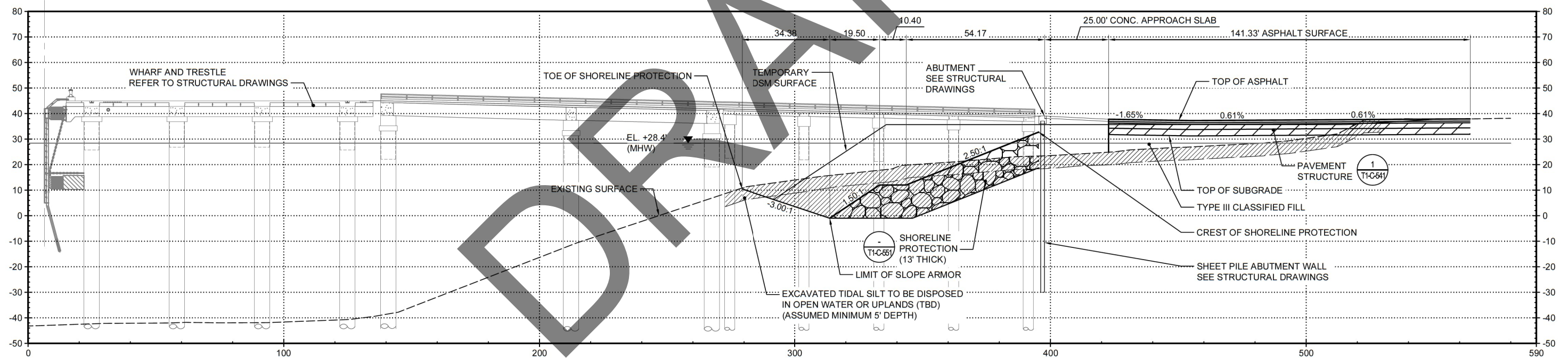
PRELIMINARY. NOT FOR USE IN DEVELOPING CONSTRUCTION BIDS

GENERAL CIVIL NOTES

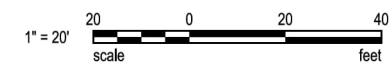
1. UNSUITABLE MATERIAL (ORGANICS OR SILT) WITHIN THE AREA OF THE SHORELINE INFILL ARE TO BE EXCAVATED, REMOVED, AND DISPOSED.



C TRESTLE 1A SECTION
SCALE: 1" = 20' T1-C-200, T1-C-203



D TRESTLE 1B SECTION
SCALE: 1" = 20' T1-C-200, T1-C-205



65% SUBMITTAL

Last Saved by: Damstra2 on: Nov 9, 2023 1:36 PM File: C:\Users\damstra2\OneDrive\GHD\Projects\Port of Alaska\Terminal Replacement\Project Files\01_WIP\Drawings\06_T1-C-312.dwg

REV	DATE	DESCRIPTION	BY	APVD

REVISIONS

GHD-WSP JV
 1400 W. BENSON BLVD, SUITE 400
 ANCHORAGE, ALASKA 99503
 AK ENGINEERING LICENSE # 197742(GHD) - AECC236(WSP) AK BUSINESS LICENSE # 2164152(GHD) - 113511(WSP)

DSGN	DR	CHK	APVD
AEM	DJW	AWC	VHN

CONSULTANT

CIVIL

SECTIONS - UPLAND (2 OF 2)

PORT OF ALASKA

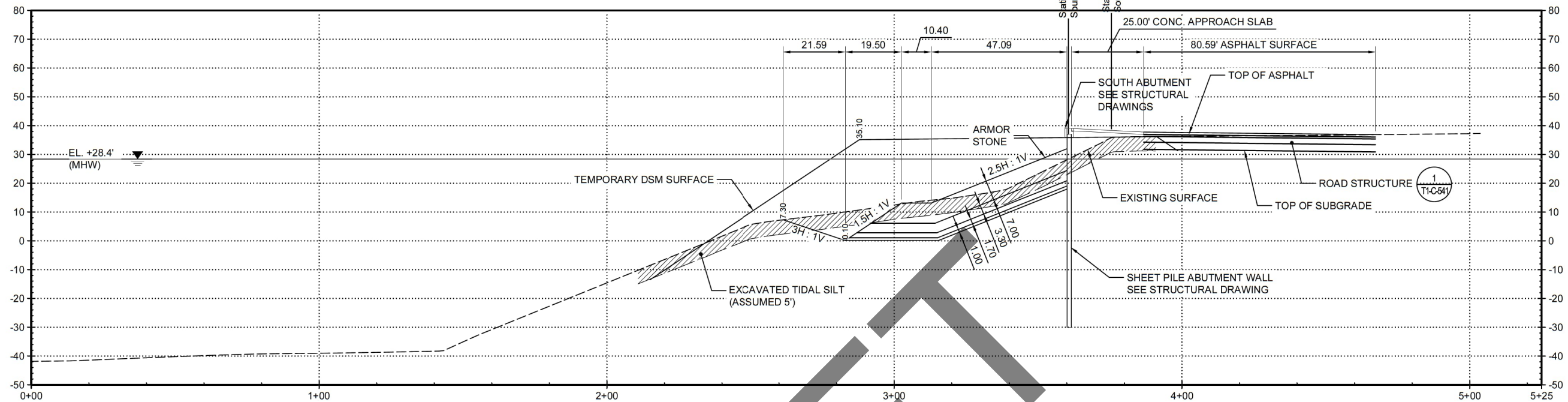
PORT OF ALASKA MODERNIZATION PROGRAM

CARGO TERMINAL 1 DESIGN

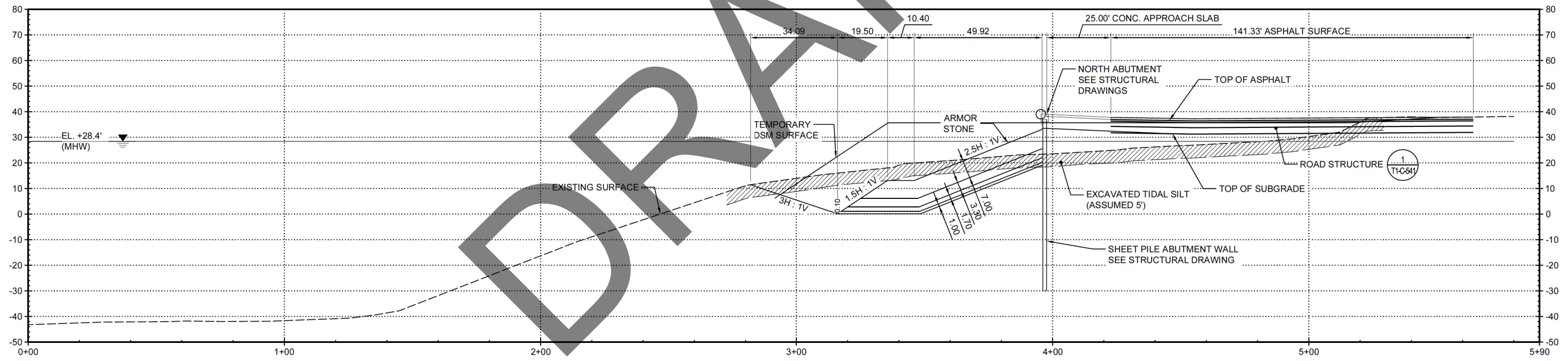
ANCHORAGE, ALASKA

HORIZ SCALE: 1"=20'	DATE: OCT 5, 2023	T1-C-313
VERT SCALE: 1"=20'	SHEET: OF	

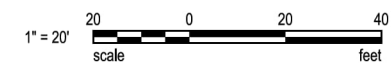
PRELIMINARY. NOT FOR USE IN DEVELOPING CONSTRUCTION BIDS



A SHORELINE PROTECTION SECTION
SCALE: 1" = 20'
T1-C-200



B SHORELINE PROTECTION SECTION
SCALE: 1" = 20'
T1-C-200



65% SUBMITTAL

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REV	DATE	DESCRIPTION	BY	APVD

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

GHD-WSP JV
1400 W. BENSON BLVD, SUITE 400
ANCHORAGE, ALASKA 99503
AK ENGINEERING LICENSE # 197742(GHD) - AECC236(WSP) AK BUSINESS LICENSE # 2164152(GHD) - 113511(WSP)

DSGN	DR	CHK	APVD
AWC	DW	JPL	VN

CONSULTANT

CIVIL

SHORELINE PROTECTION SECTION

PORT OF ALASKA

PORT OF ALASKA MODERNIZATION PROGRAM

CARGO TERMINAL 1 DESIGN

ANCHORAGE, ALASKA

HORIZ SCALE: 1"=20'	DATE: OCT 5, 2023	T1-C-351
VERT SCALE: 1"=20'	SHEET: OF	



PRELIMINARY. NOT FOR USE IN DEVELOPING CONSTRUCTION BIDS

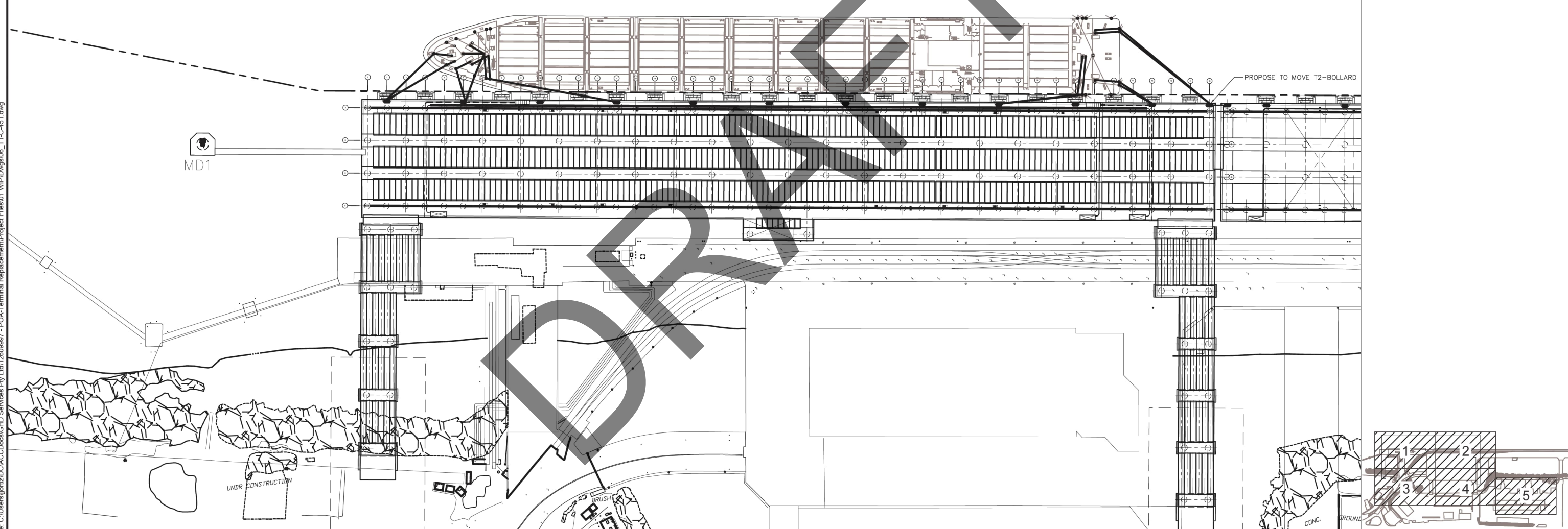
Last Saved by: jortiz on: Nov 8, 2023 5:16 PM File: C:\Users\jortiz\OneDrive\GHD\Projects\POA-Terminal Replacement\Project Files\01_WIP\Drawings\T1-C-451.dwg

GENERAL CIVIL NOTES

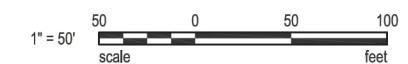
1. WINCHES AND FAIRLEAD LOCATIONS WERE DERIVED FROM SHIP DRAWINGS OF THE MATSON ANCHORAGE.
2. COORDINATE SITE WORKS WITH DEMOLITION DRAWINGS.
3. REFER TO UTILITY DRAWING FOR WATER AND FIRE PROTECTION LAYOUT AND DETAILS.
4. REFER TO ELECTRICAL DRAWINGS FOR SUBSTATION AND POWER SUPPLY LAYOUT AND DETAILS.
5. REFER TO EXISTING LEGEND AND ABBREVIATIONS ON SHEET T1-V-002.
6. REFER TO PROPOSED LEGEND AND ABBREVIATIONS ON SHEET T1-C-001.

LEGEND

-  FENDERS
-  BOLLARDS




MOORING ARRANGEMENT TERMINAL 1 - MATSON ANCHORAGE
SCALE: 1" = 50'




KEY PLAN
65% SUBMITTAL

REV	DATE	DESCRIPTION	BY	APVD

VERIFIY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

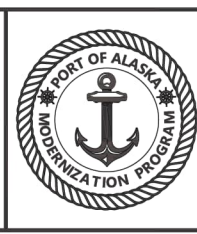
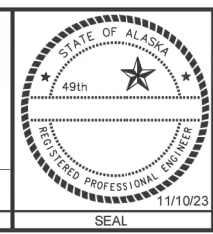


GHD-WSP JV
1400 W. BENSON BLVD, SUITE 400
ANCHORAGE, ALASKA 99503
AK ENGINEERING LICENSE # 197742(GHD) - AECC236(WSP) AK BUSINESS LICENSE # 2164152(GHD) - 1113511(WSP)



DR JJO
CHK
APVD

REVISIONS



CIVIL
MOORING ARRANGEMENT TERMINAL 1 -
MATSON ANCHORAGE

PORT OF ALASKA
PORT OF ALASKA MODERNIZATION PROGRAM
CARGO TERMINAL 1 DESIGN
ANCHORAGE, ALASKA

HORIZ SCALE: 1"=50'	DATE: SEPT. 1, 2023	T1-C-451
VERT SCALE:	SHEET: OF	


PRELIMINARY. NOT FOR USE IN DEVELOPING CONSTRUCTION BIDS

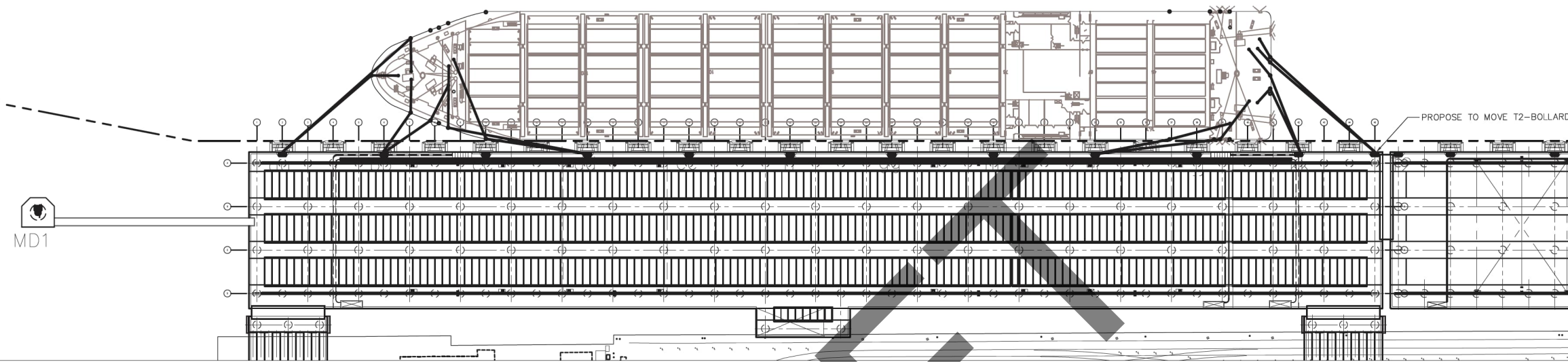
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GENERAL CIVIL NOTES

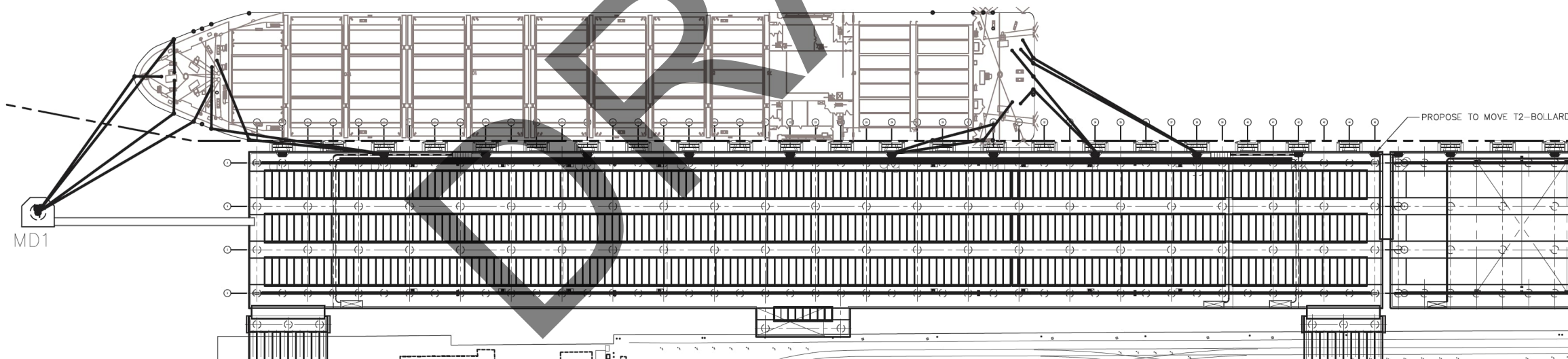
1. WINCHES AND FAIRLEAD LOCATIONS WERE DERIVED FROM SHIP DRAWINGS OF THE MATSON ANCHORAGE.
2. COORDINATE SITE WORKS WITH DEMOLITION DRAWINGS.
3. REFER TO UTILITY DRAWING FOR WATER AND FIRE PROTECTION LAYOUT AND DETAILS.
4. REFER TO ELECTRICAL DRAWINGS FOR SUBSTATION AND POWER SUPPLY LAYOUT AND DETAILS.
5. REFER TO EXISTING LEGEND AND ABBREVIATIONS ON SHEET T1-V-002.
6. REFER TO PROPOSED LEGEND AND ABBREVIATIONS ON SHEET T1-C-001.

LEGEND

-  FENDERS
-  BOLLARDS

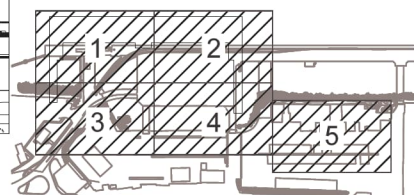


NO MOORING DOLPHIN
SCALE: 1" = 50'

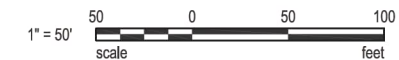


WITH MOORING DOLPHIN
SCALE: 1" = 50'

MOORING ARRANGEMENT TERMINAL 1 - MASON MAUNALEI
SCALE: 1" = 50'




KEY PLAN




65% SUBMITTAL

REV	DATE	DESCRIPTION	BY	APVD

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

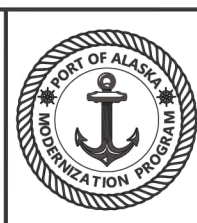
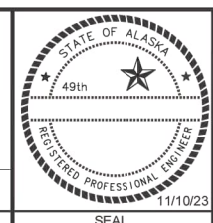




GHD-WSP JV
 1400 W. BENSON BLVD, SUITE 400
 ANCHORAGE, ALASKA 99503
 AK ENGINEERING LICENSE # 197742(GHD) - AECC236(WSP) AK BUSINESS LICENSE # 2164152(GHD) - 113511(WSP)

DSGN	DR	CHK	APVD
AWC	JJO	CHK	APVD

CONSULTANT



CIVIL

MOORING ARRANGEMENT TERMINAL 1 -
MASON MAUNALEI

PORT OF ALASKA

PORT OF ALASKA MODERNIZATION PROGRAM
CARGO TERMINAL 1 DESIGN
ANCHORAGE, ALASKA


HORIZ SCALE: 1"=50'	DATE: SEPT. 1, 2023	T1-C-452
VERT SCALE:	SHEET: OF	

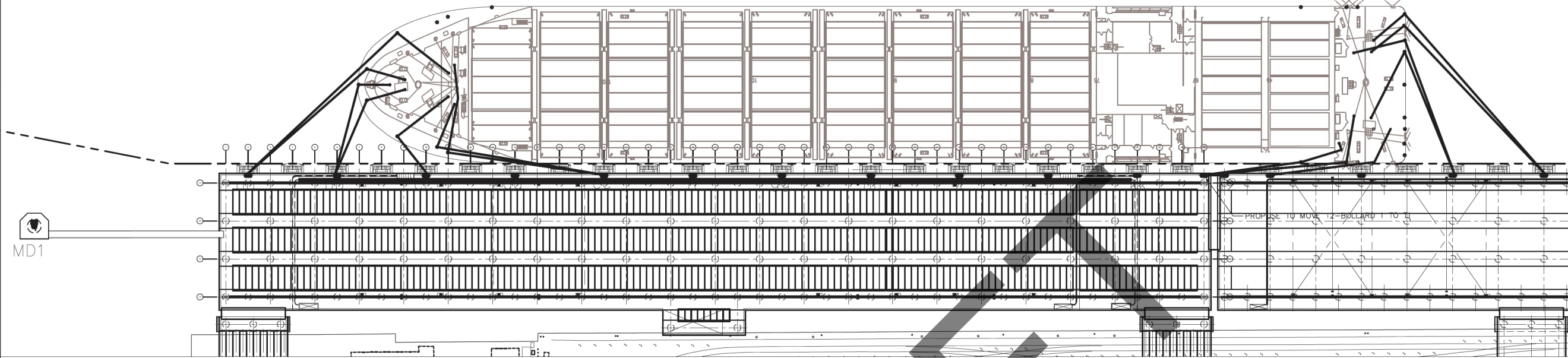
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GENERAL CIVIL NOTES

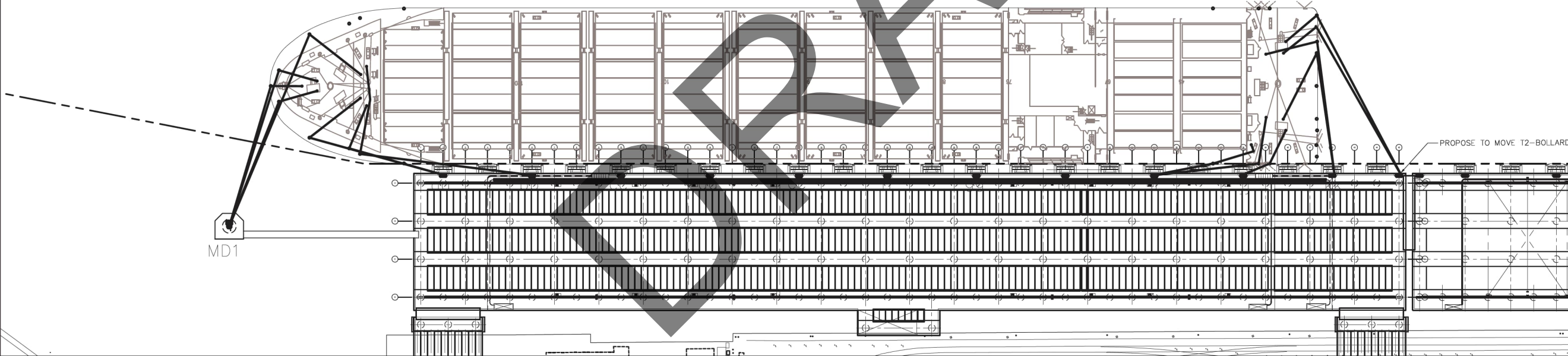
1. WINCHES AND FAIRLEAD LOCATIONS WERE DERIVED FROM SHIP DRAWINGS OF THE MATSON ANCHORAGE.
2. COORDINATE SITE WORKS WITH DEMOLITION DRAWINGS.
3. REFER TO UTILITY DRAWING FOR WATER AND FIRE PROTECTION LAYOUT AND DETAILS.
4. REFER TO ELECTRICAL DRAWINGS FOR SUBSTATION AND POWER SUPPLY LAYOUT AND DETAILS.
5. REFER TO EXISTING LEGEND AND ABBREVIATIONS ON SHEET T1-V-002.
6. REFER TO PROPOSED LEGEND AND ABBREVIATIONS ON SHEET T1-C-001.

LEGEND

-  FENDERS
-  BOLLARDS

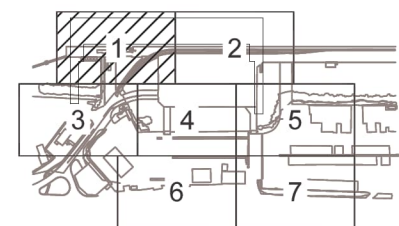


NO MOORING DOLPHIN
SCALE: 1" = 50'



WITH MOORING DOLPHIN
SCALE: 1" = 50'

MOORING ARRANGEMENT TERMINAL 1 - PROJECTED MATSON SHIP
SCALE: 1" = 50'



KEY PLAN



65% SUBMITTAL

REV	DATE	DESCRIPTION	BY	APVD

REVISIONS



GHD

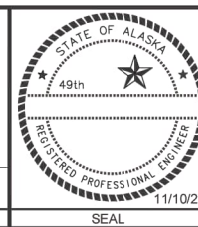


wsp

GHD-WSP JV
 1400 W. BENSON BLVD, SUITE 400
 ANCHORAGE, ALASKA 99503
 AK ENGINEERING LICENSE # 197742(GHD) - AECC236(WSP) AK BUSINESS LICENSE # 2164152(GHD) - 113511(WSP)

DSGN	DR	CHK	APVD
AWC	JJO		

CONSULTANT



CIVIL

MOORING ARRANGEMENT TERMINAL 1 -
PROJECTED MATSON SHIP

PORT OF ALASKA

PORT OF ALASKA MODERNIZATION PROGRAM
CARGO TERMINAL 1 DESIGN
ANCHORAGE, ALASKA

HORIZ SCALE: 1"=50'	DATE: SEPT. 1, 2023	T1-C-453
VERT SCALE:	SHEET: OF	


PRELIMINARY. NOT FOR USE IN DEVELOPING CONSTRUCTION BIDS

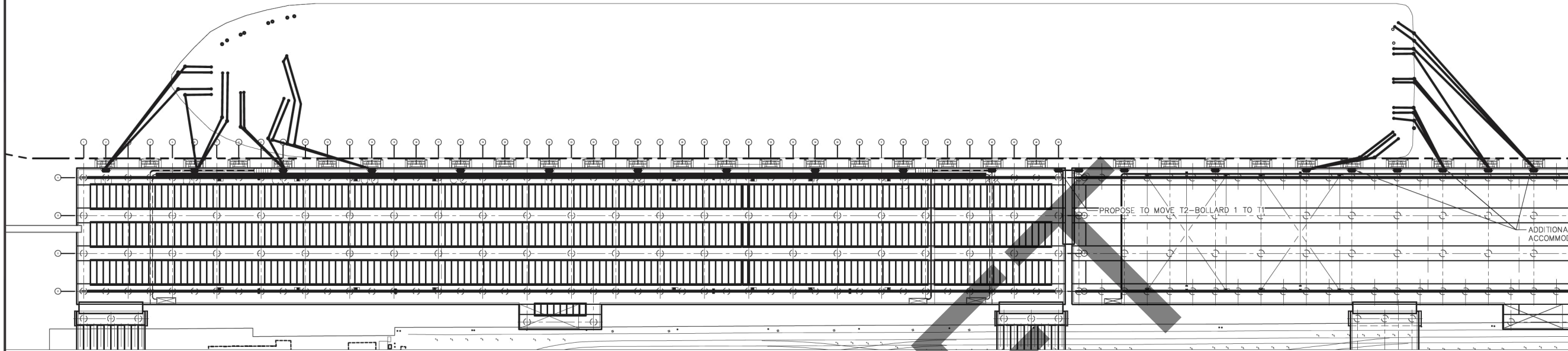
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GENERAL CIVIL NOTES

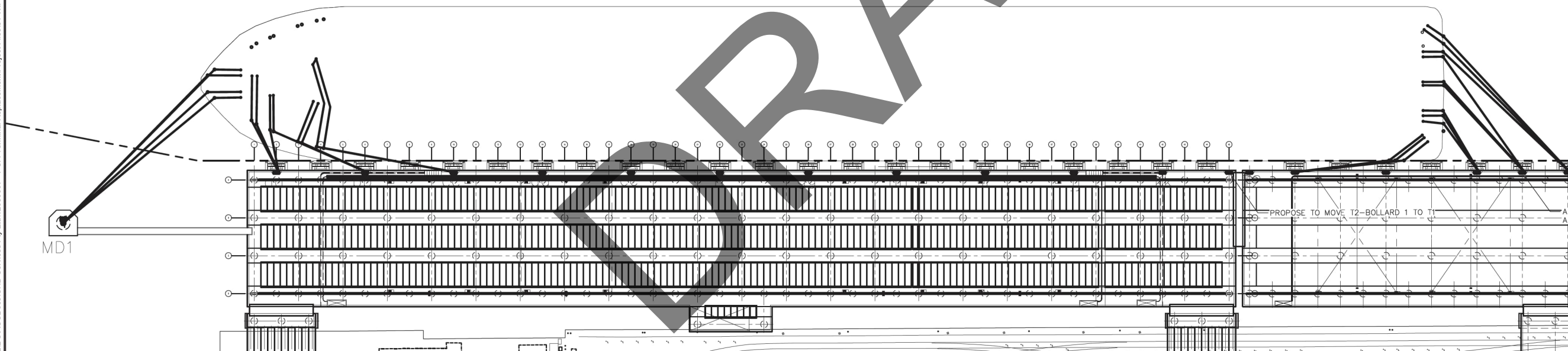
1. WINCHES AND FAIRLEAD LOCATIONS WERE DERIVED FROM SHIP DRAWINGS OF THE MATSON ANCHORAGE.
2. COORDINATE SITE WORKS WITH DEMOLITION DRAWINGS.
3. REFER TO UTILITY DRAWING FOR WATER AND FIRE PROTECTION LAYOUT AND DETAILS.
4. REFER TO ELECTRICAL DRAWINGS FOR SUBSTATION AND POWER SUPPLY LAYOUT AND DETAILS.
5. REFER TO EXISTING LEGEND AND ABBREVIATIONS ON SHEET T1-V-002.
6. REFER TO PROPOSED LEGEND AND ABBREVIATIONS ON SHEET T1-C-001.

LEGEND

-  FENDERS
-  BOLLARDS

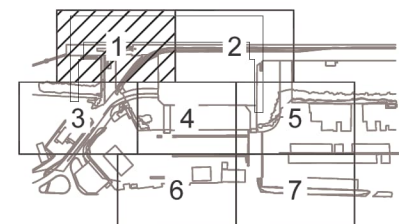


NO MOORING DOLPHIN
SCALE: 1" = 50'



WITH MOORING DOLPHIN
SCALE: 1" = 50'

MOORING ARRANGEMENT TERMINAL 1 - NORWEGIAN ENCORE
SCALE: 1" = 50'





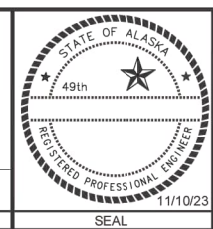
KEY PLAN



65% SUBMITTAL

REV	DATE	DESCRIPTION	BY	APVD
REVISIONS				

			
GHD-WSP JV 1400 W. BENSON BLVD, SUITE 400 ANCHORAGE, ALASKA 99503 AK ENGINEERING LICENSE # 197742(GHD) - AECC236(WSP) AK BUSINESS LICENSE # 2164152(GHD) - 1113511(WSP)			
DSGN	DR	CHK	APVD
AWC	JJO		
CONSULTANT			



CIVIL

MOORING ARRANGEMENT TERMINAL 1 - NORWEGIAN ENCORE


PORT OF ALASKA		
PORT OF ALASKA MODERNIZATION PROGRAM		
CARGO TERMINAL 1 DESIGN		
ANCHORAGE, ALASKA		
HORIZ SCALE: 1"=50'	DATE: SEPT. 1, 2023	T1-C-454
VERT SCALE:	SHEET: OF	

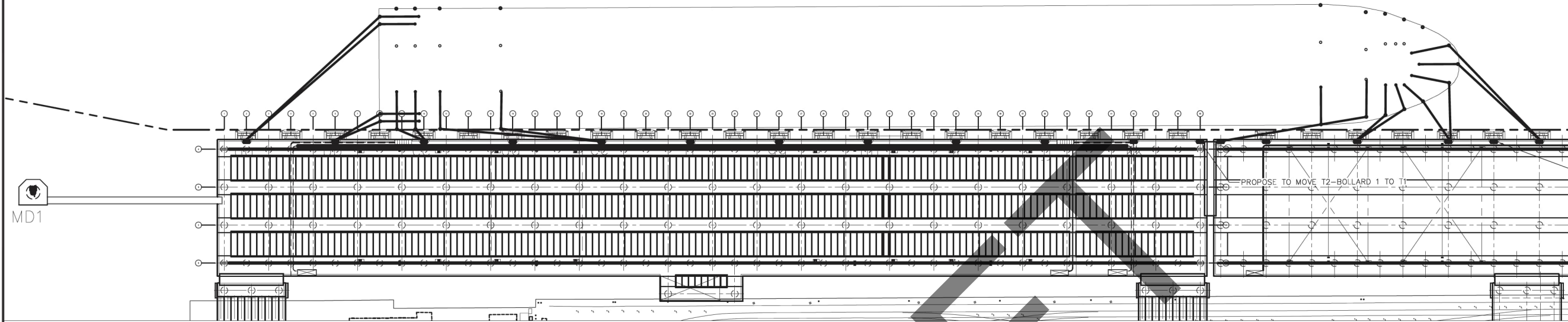
PRELIMINARY. NOT FOR USE IN DEVELOPING CONSTRUCTION BIDS

GENERAL CIVIL NOTES

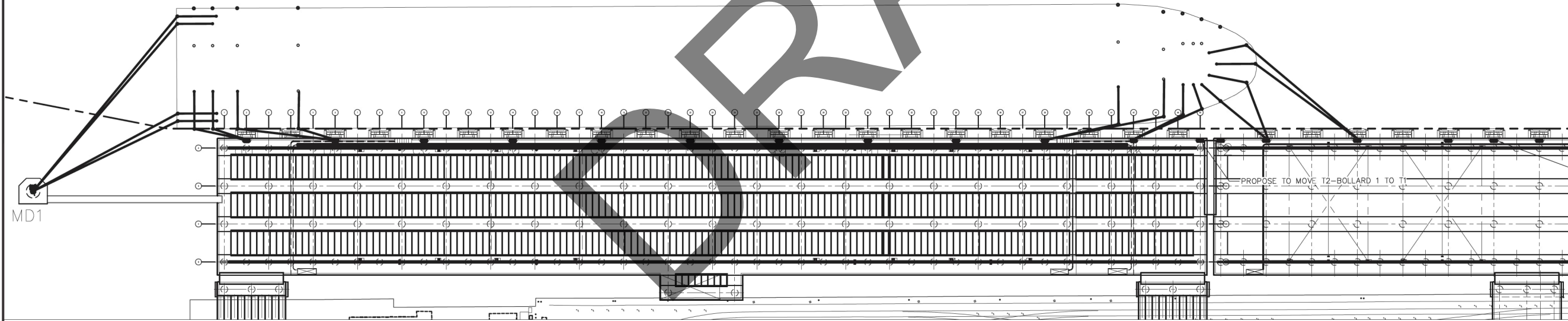
1. WINCHES AND FAIRLEAD LOCATIONS WERE DERIVED FROM SHIP DRAWINGS OF THE MATSON ANCHORAGE.
2. COORDINATE SITE WORKS WITH DEMOLITION DRAWINGS.
3. REFER TO UTILITY DRAWING FOR WATER AND FIRE PROTECTION LAYOUT AND DETAILS.
4. REFER TO ELECTRICAL DRAWINGS FOR SUBSTATION AND POWER SUPPLY LAYOUT AND DETAILS.
5. REFER TO EXISTING LEGEND AND ABBREVIATIONS ON SHEET T1-V-002.
6. REFER TO PROPOSED LEGEND AND ABBREVIATIONS ON SHEET T1-C-001.

LEGEND

-  FENDERS
-  BOLLARDS

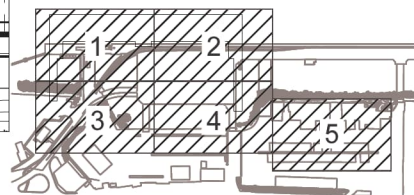


NO MOORING DOLPHIN
SCALE: 1" = 50'



WITH MOORING DOLPHIN
SCALE: 1" = 50'

MOORING ARRANGEMENT TERMINAL 1 - USNS BOB HOPE
SCALE: 1" = 50'



KEY PLAN



65% SUBMITTAL

Last Saved by: jortiz on: Nov 8, 2023 5:20 PM File: C:\Users\jortiz\Documents\GHD Services Pty Ltd\12609897 - POA-Terminal Replacement\Project Files\01 WIP\Drawings\T1-C-455.dwg

REV	DATE	DESCRIPTION	BY	APVD
REVISIONS				



GHD

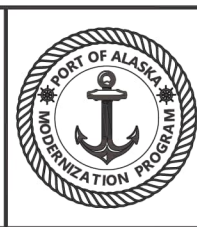
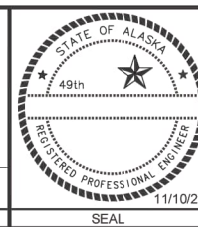


wsp

GHD-WSP JV
1400 W. BENSON BLVD, SUITE 400
ANCHORAGE, ALASKA 99503
AK ENGINEERING LICENSE # 197742(GHD) - AECC236(WSP) AK BUSINESS LICENSE # 2164152(GHD) - 1113511(WSP)

DSGN	DR	CHK	APVD
AWC	JJO	CHK	

CONSULTANT



CIVIL

MOORING ARRANGEMENT TERMINAL 1 -
USNS BOB HOPE

PORT OF ALASKA

PORT OF ALASKA MODERNIZATION PROGRAM
CARGO TERMINAL 1 DESIGN
ANCHORAGE, ALASKA

HORIZ SCALE: 1"=50'	DATE: SEPT. 1, 2023	T1-C-455
VERT SCALE:	SHEET: OF	

PRELIMINARY. NOT FOR USE IN DEVELOPING CONSTRUCTION BIDS

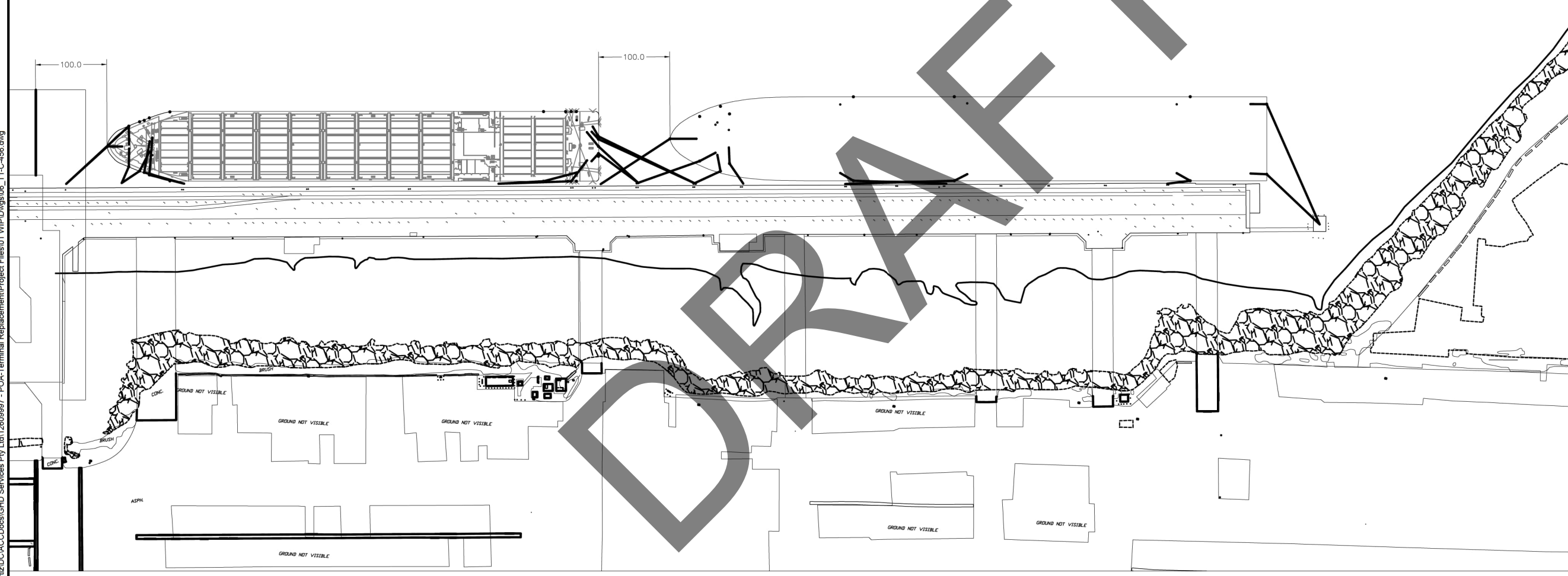
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GENERAL CIVIL NOTES

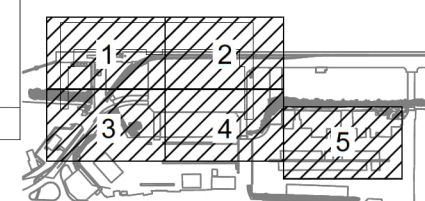
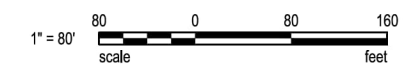
1. WINCHES AND FAIRLEAD LOCATIONS WERE DERIVED FROM SHIP DRAWINGS OF THE MATSON ANCHORAGE.
2. COORDINATE SITE WORKS WITH DEMOLITION DRAWINGS.
3. REFER TO UTILITY DRAWING FOR WATER AND FIRE PROTECTION LAYOUT AND DETAILS.
4. REFER TO ELECTRICAL DRAWINGS FOR SUBSTATION AND POWER SUPPLY LAYOUT AND DETAILS.
5. REFER TO EXISTING LEGEND AND ABBREVIATIONS ON SHEET T1-V-002.
6. REFER TO PROPOSED LEGEND AND ABBREVIATIONS ON SHEET T1-C-001.

LEGEND

-  FENDERS
-  BOLLARDS




MOORING ARRANGEMENT TEMPORARY CONSTRUCTION T1 - MATSON MAUNALEI AND TOTE MIDNIGHT SUN
SCALE: 1" = 80'




KEY PLAN
65% SUBMITTAL

REV	DATE	DESCRIPTION	BY	APVD

REVISIONS



GHD

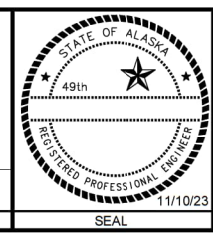


wsp

GHD-WSP JV
1400 W. BENSON BLVD, SUITE 400
ANCHORAGE, ALASKA 99503
AK ENGINEERING LICENSE # 197742(GHD) - AECC236(WSP) AK BUSINESS LICENSE # 2164152(GHD) - 1113511(WSP)

DSGN	DR	CHK	APVD
AWC	JJO		

CONSULTANT



CIVIL

MOORING ARRANGEMENT TEMPORARY
CONSTRUCTION T1 - MATSON MAUNALEI
AND TOTE MIDNIGHT SUN

PORT OF ALASKA

PORT OF ALASKA MODERNIZATION PROGRAM
CARGO TERMINAL 1 DESIGN
ANCHORAGE, ALASKA

HORIZ SCALE: 1"=80'	DATE: SEPT. 1, 2023	T1-C-456
VERT SCALE:	SHEET: OF	

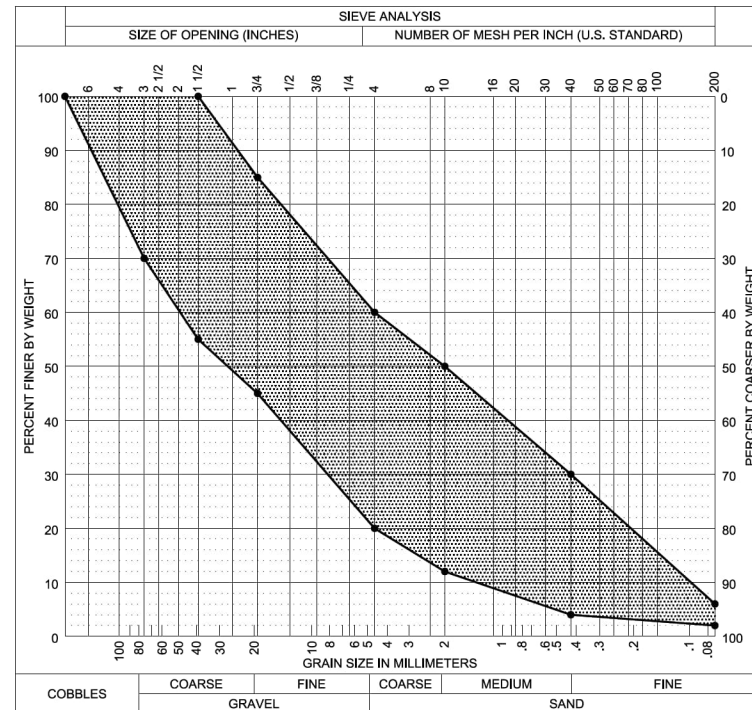
GENERAL NOTES

1. STANDARD DETAILS SHOWN ON THIS SHEET ARE SOURCED FROM THE MUNICIPALITY OF ANCHORAGE STANDARD DETAILS RETRIEVED OCTOBER 2023.

GRADING LIMITS

U.S. STANDARD SIEVE	CUMULATIVE % PASSING BY WEIGHT
8"	100
3"	70-100
1-1/2"	55-100
3/4"	45-85
#4	20-60
#10	12-50
#40	4-30
#200	*2-6

* IN ADDITION TO THE GRADING LIMITS LISTED ABOVE, THE FRACTION OF MATERIAL PASSING THE #200 SIEVE SHALL NOT BE GREATER THAN 15% OF THAT FRACTION PASSING THE #4 SIEVE.

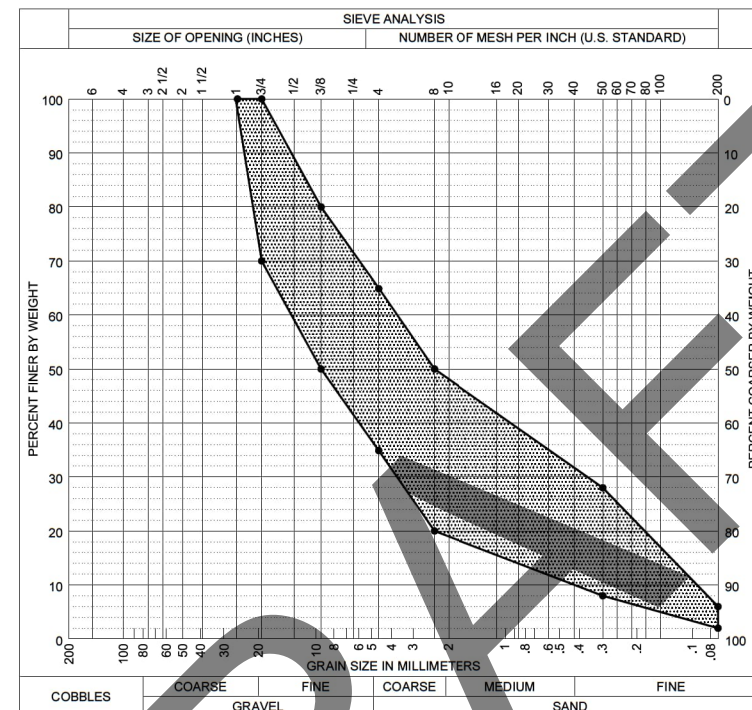


MUNICIPALITY OF ANCHORAGE	SCALE: NTS APPROVED: REVISED: 11/14	TYPE II CLASSIFIED FILL AND BACKFILL	SECTION # 20.21 DETAIL # 20-14
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GRADING LIMITS

U.S. STANDARD SIEVE	CUMULATIVE % PASSING BY WEIGHT
1"	100
3/4"	70-100
3/8"	50-80
#4	35-65
#8	20-50
#50	8-28
#200	*2-6

* IN ADDITION TO THE GRADING LIMITS LISTED ABOVE, THE FRACTION OF MATERIAL PASSING THE #200 SIEVE SHALL NOT BE GREATER THAN 75% OF THAT FRACTION PASSING THE #50 SIEVE.



MUNICIPALITY OF ANCHORAGE	SCALE: NTS APPROVED: REVISED: 10/08	LEVELING COURSE	SECTION # 20.22 DETAIL # 20-18
---------------------------	---	------------------------	-----------------------------------

TO BE DEVELOPED

1 SWALE DETAIL
SCALE: N.T.S. T1-C-XXX

65% SUBMITTAL

Last Saved by: Damstron2 on: Nov 13, 2023 11:43 AM File: C:\Users\damstron2\Documents\GHD Services Pty Ltd\1260997 - POA-Terminal Replacement\Project Files\01_WIP\Drawings\T1-C-512.dwg

REV	DATE	DESCRIPTION	BY	APVD

GHD-WSP JV 1400 W. BENSON BLVD, SUITE 400 ANCHORAGE, ALASKA 99503	
AK ENGINEERING LICENSE # 197742(GHD) - AECC236(WSP) AK BUSINESS LICENSE # 2164152(GHD) - 113511(WSP)	
DSGN: AEM	DR: DJW
CHK: AWC	APVD: VHN
CONSULTANT	

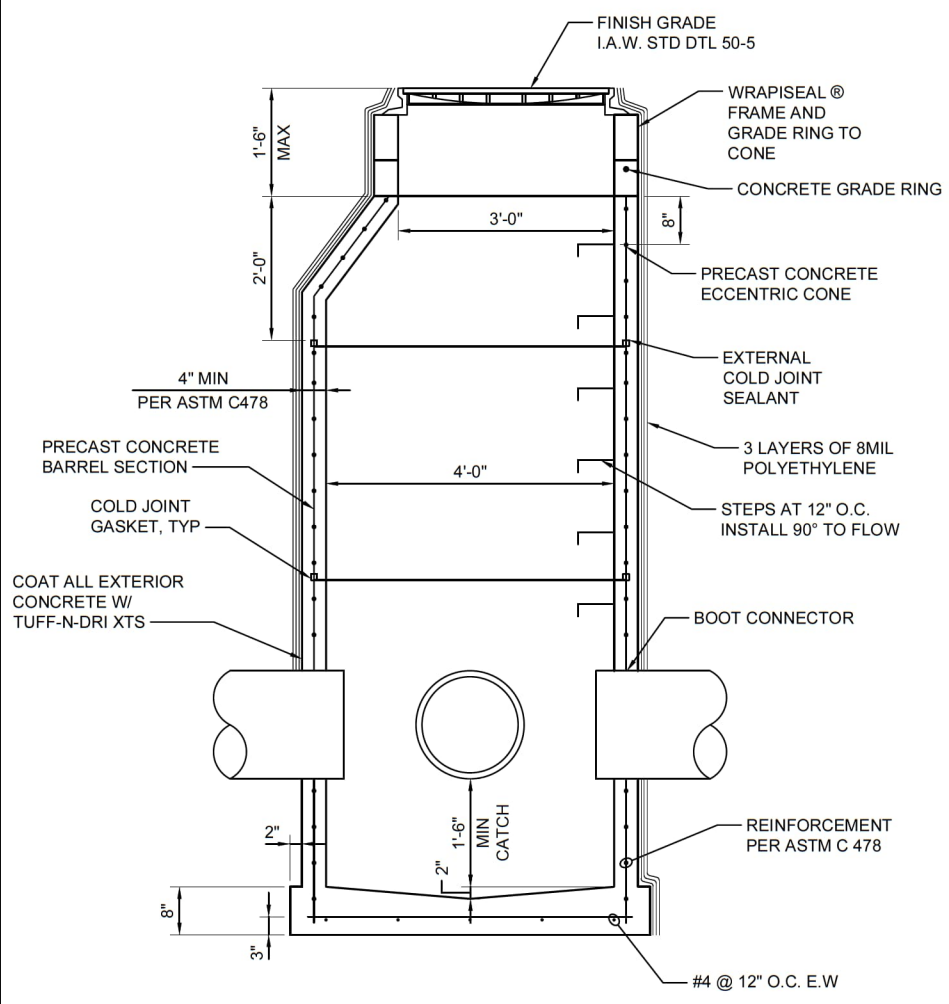
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CIVIL
DETAILS
UPLAND DRAINAGE & GRADING

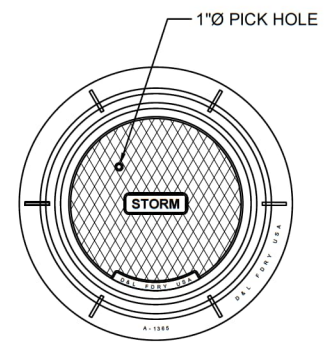
PORT OF ALASKA	
PORT OF ALASKA MODERNIZATION PROGRAM	
CARGO TERMINAL 1 DESIGN	
ANCHORAGE, ALASKA	
HORIZ SCALE:	DATE: OCT 10, 2023
VERT SCALE:	SHEET: OF
T1-C-512	

PRELIMINARY. NOT FOR USE IN DEVELOPING CONSTRUCTION BIDS

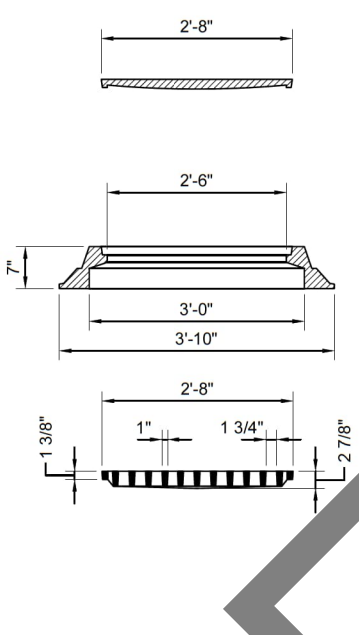
DRAFT



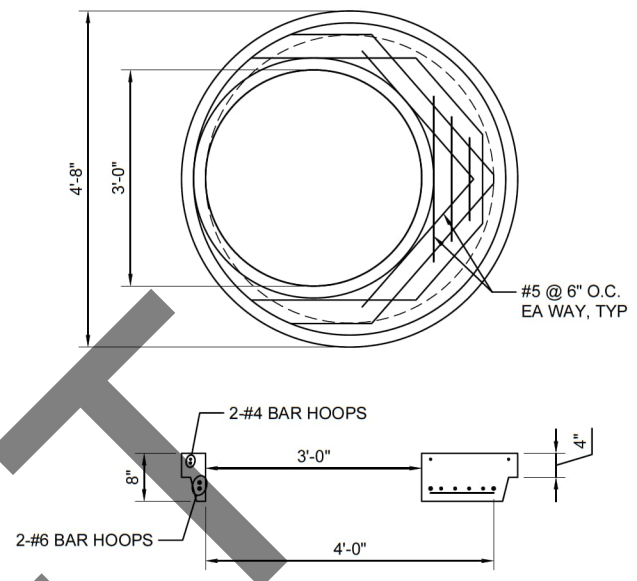
1 TYPE I STORM DRAIN MH DETAIL
SCALE: 3/4" = 1'-0"



2 32" LID, INTAKE LID AND FRAME
SCALE: 3/4" = 1'-0"



3 48" TO 36" FLAT LID
SCALE: 3/4" = 1'-0"



4 LINK SEAL DETAIL
SCALE: 1 1/2" = 1'-0"

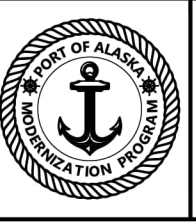
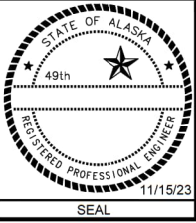
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65% SUBMITTAL

REV	DATE	DESCRIPTION	BY	APVD

GHD-WSP JV
1400 W. BENSON BLVD, SUITE 400
ANCHORAGE, ALASKA 99503
AK ENGINEERING LICENSE # 197742(GHD) - AECC236(WSP)
AK BUSINESS LICENSE # 2164152(GHD) - 113511(WSP)

DR JDM
CHK MM
APVD JRG

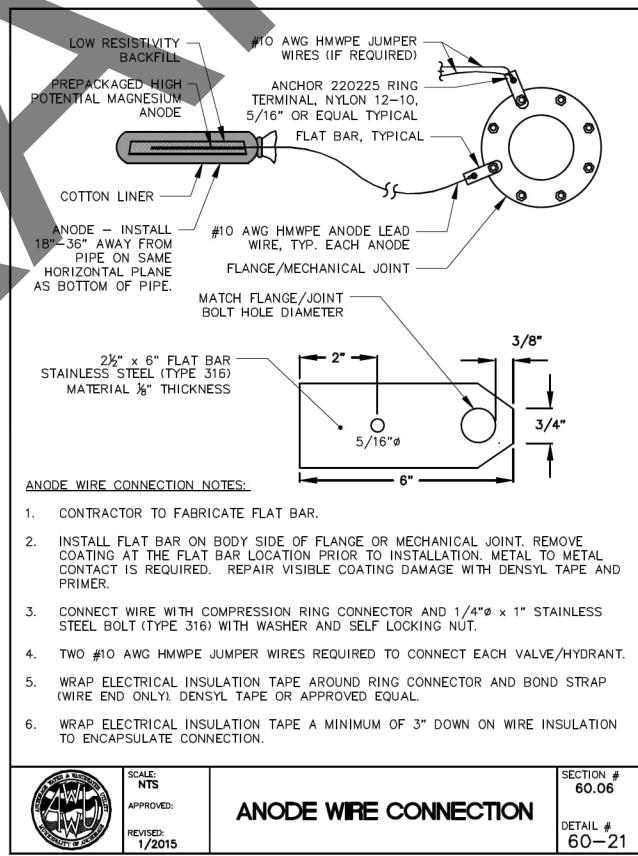
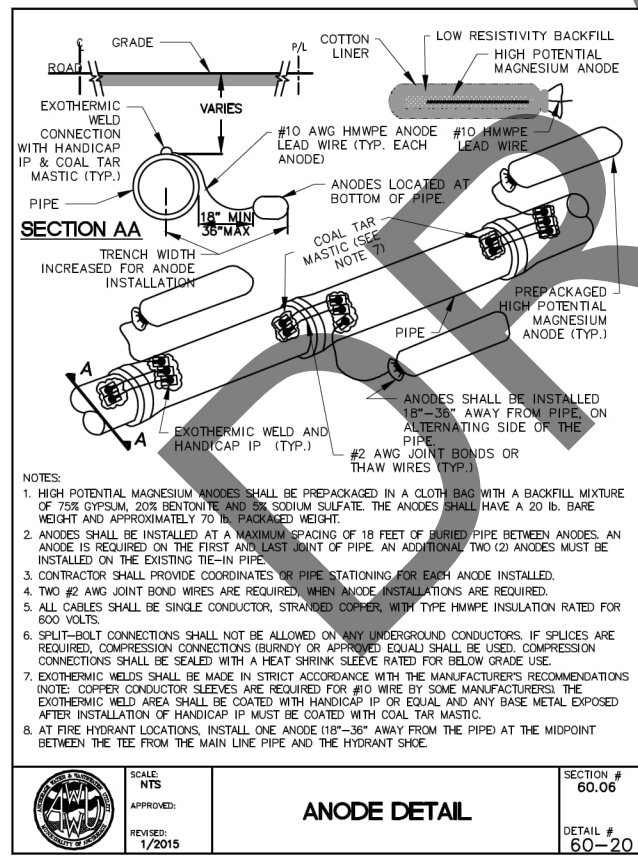
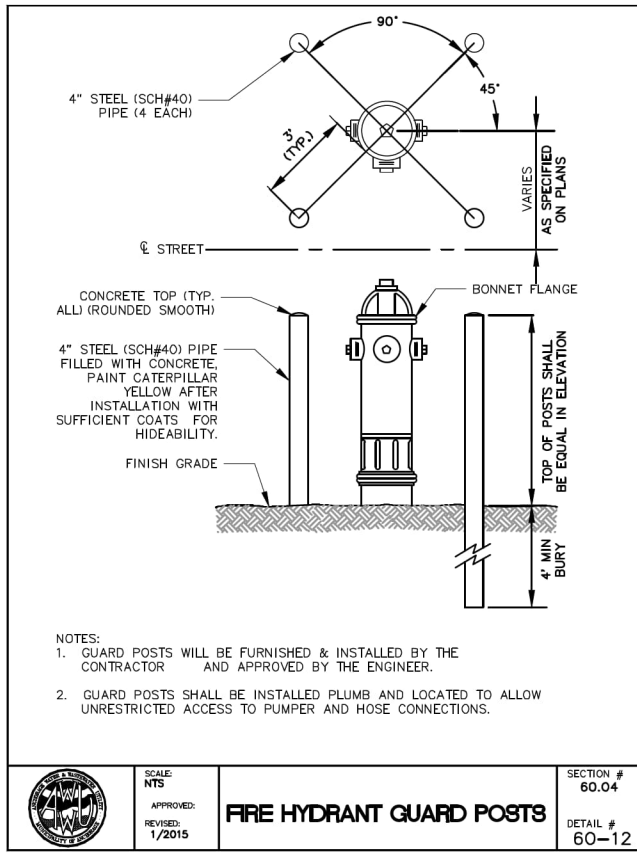
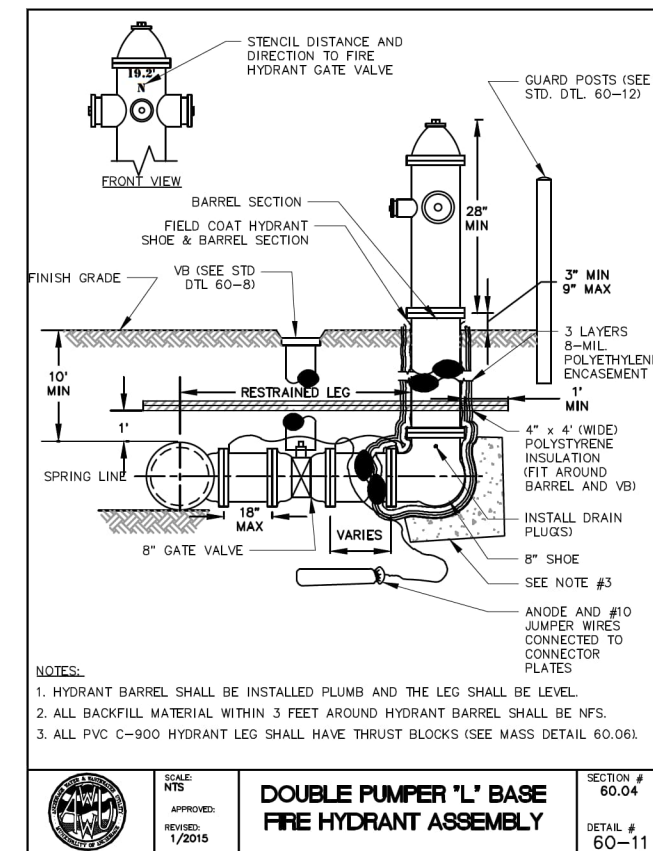
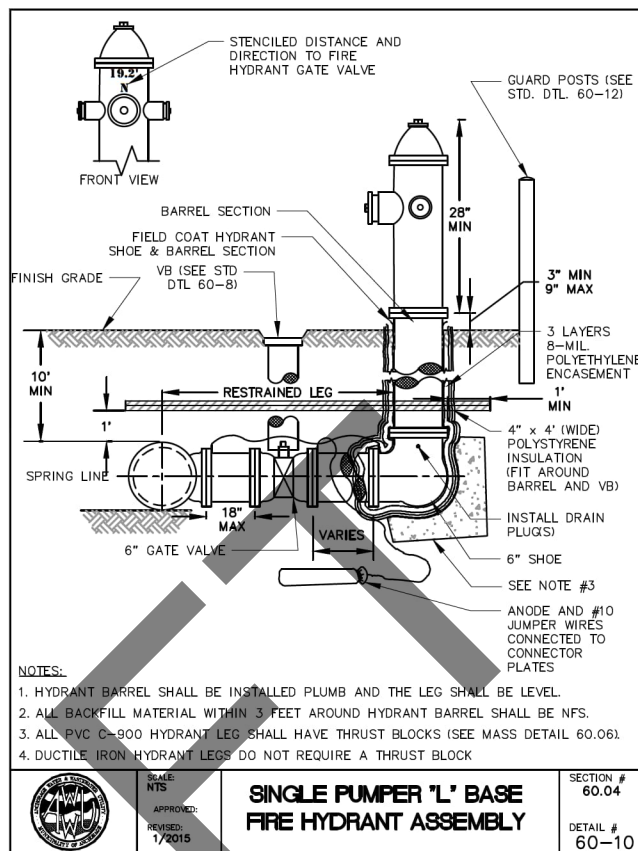
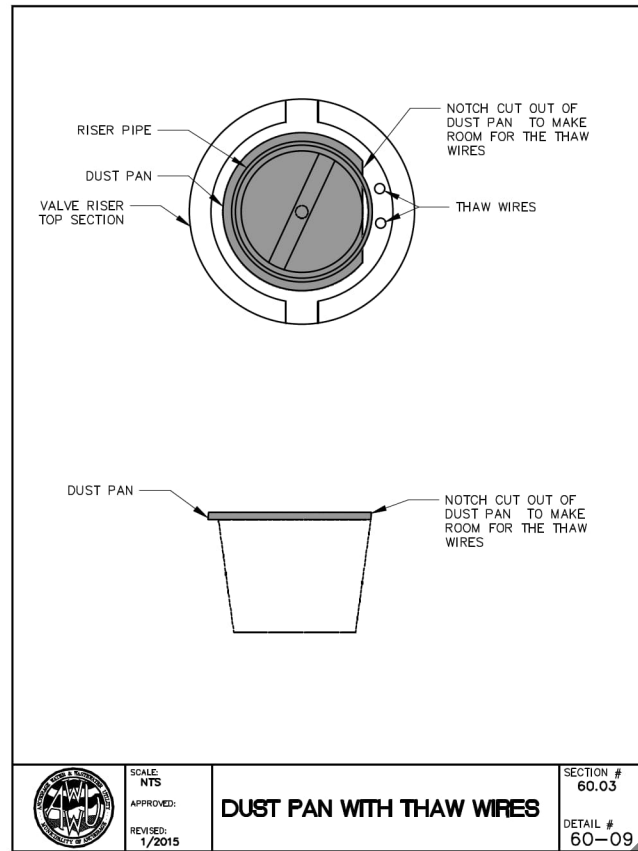
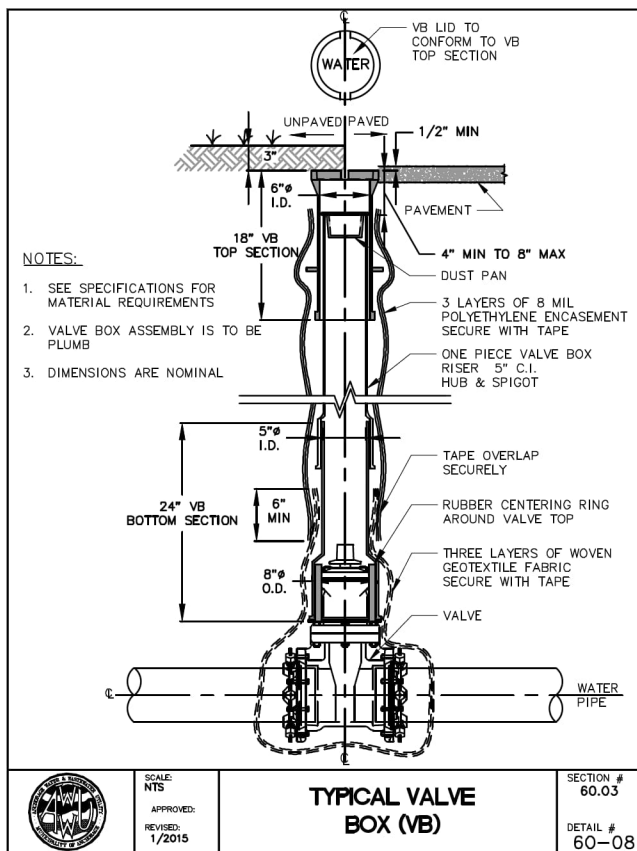


CIVIL
DETAILS - DRAINAGE

PORT OF ALASKA		
PORT OF ALASKA MODERNIZATION PROGRAM CARGO TERMINAL 1 DESIGN ANCHORAGE, ALASKA		
HORIZ SCALE: AS SHOWN	DATE: 11/17/23	T1-C-515
VERT SCALE: AS SHOWN	SHEET: 86 OF 420	

PRELIMINARY. NOT FOR USE IN DEVELOPING CONSTRUCTION BIDS

Last Saved by: E.Hanks on: Nov 14, 2023 7:02 PM. File: J:\JobsData\78701.00 port of alaska terminal 1 replacement\00 CADD\01 working set\01 Civil\05_T1-C-531.dwg



65% SUBMITTAL

REV	DATE	DESCRIPTION	BY	APVD

REVISIONS

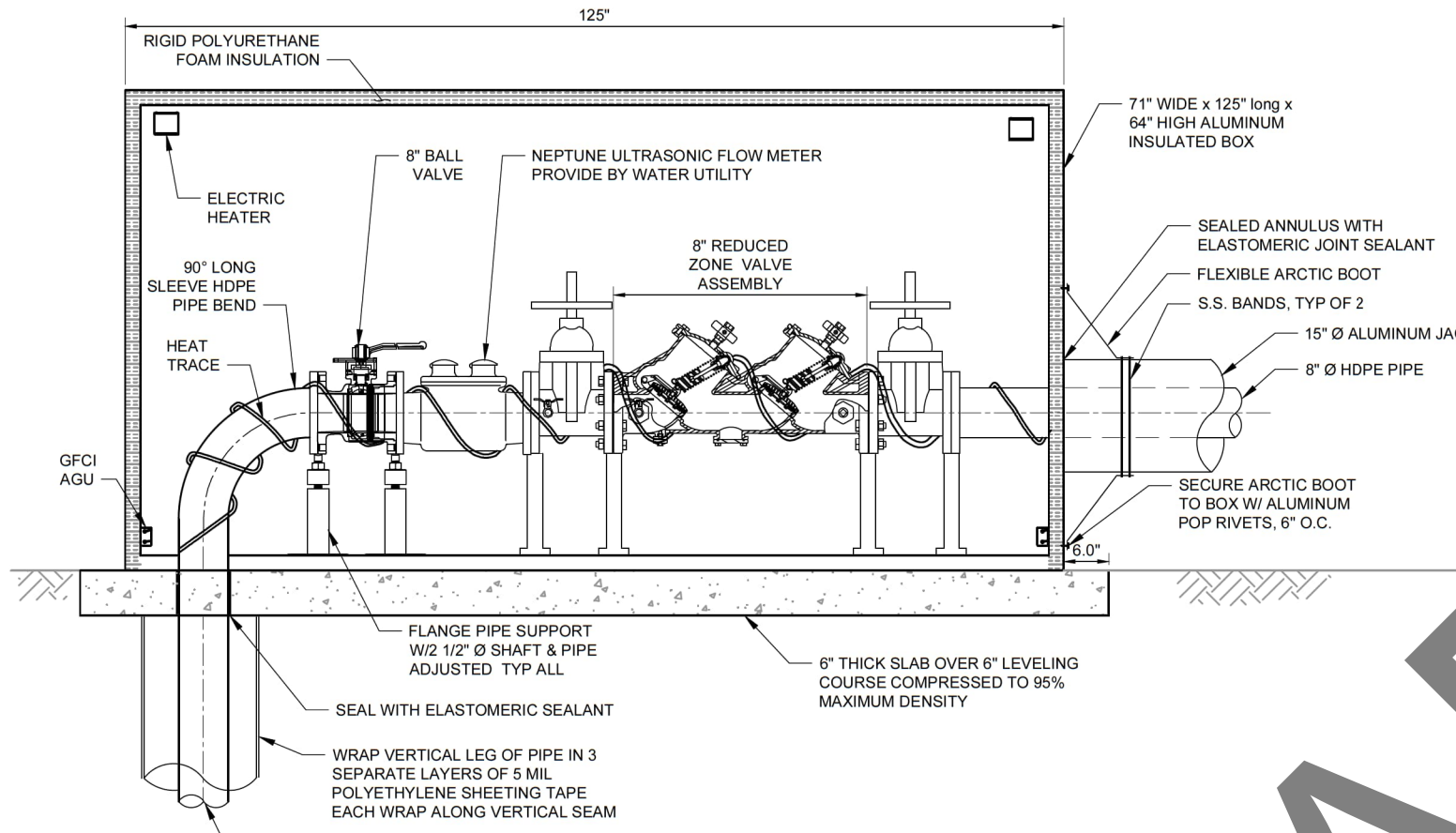
GHD-WSP JV 1400 W. BENSON BLVD, SUITE 400 ANCHORAGE, ALASKA 99503 AK ENGINEERING LICENSE # 19774(GHD) - AECC238(WSP) 2164152(GHD) - 1113511(WSP) #REC-892-AK		
DSGN	DR	CHK
EH	EH	ME
CONSULTANT		

#####	SEAL

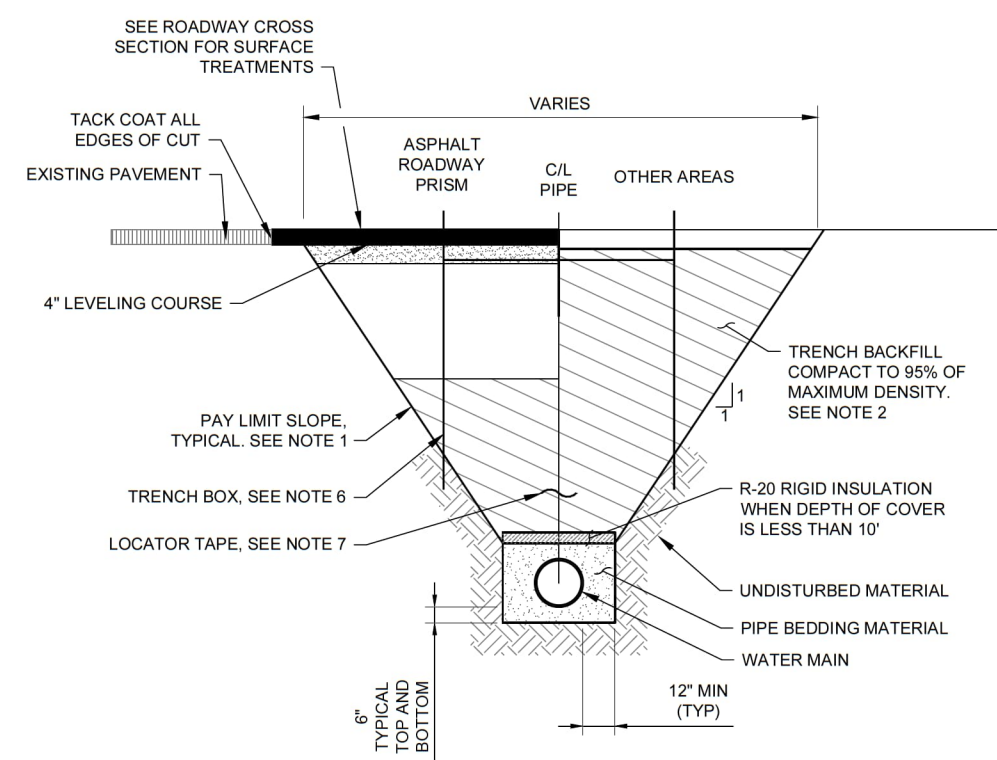
	CIVIL
POTABLE WATER DETAILS	

PORT OF ALASKA	
PORT OF ALASKA MODERNIZATION PROGRAM	
CARGO TERMINAL 1 DESIGN	
ANCHORAGE, ALASKA	
HORIZ SCALE: AS SHOWN	DATE: 11/14/23
VERT SCALE: AS SHOWN	SHEET: # OF #
T1-C-531	

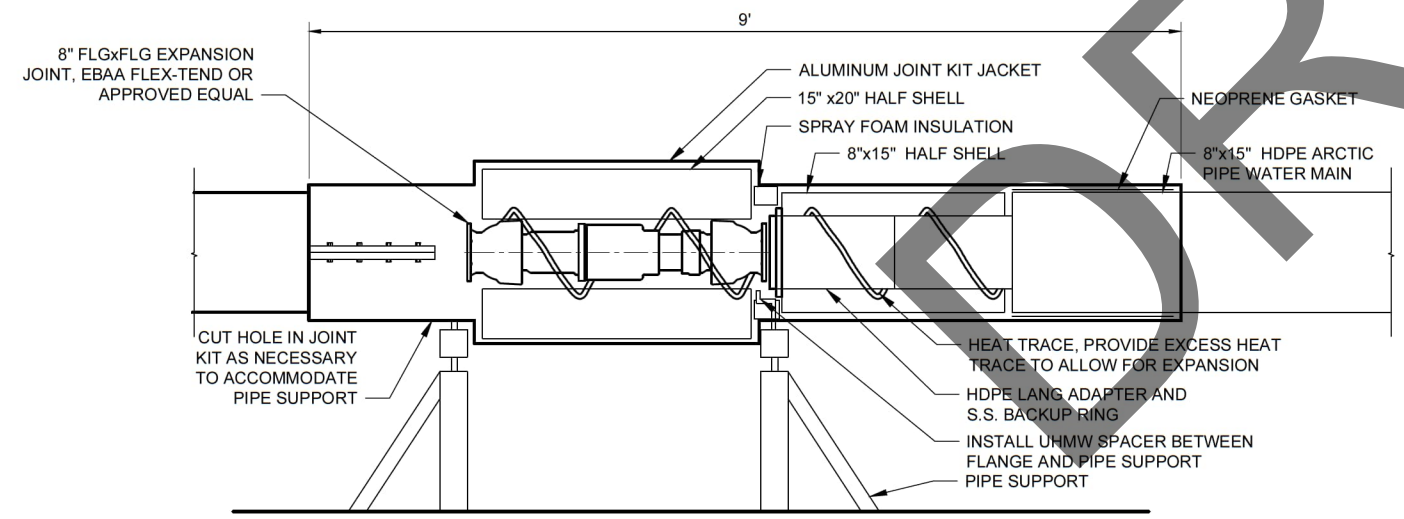
PRELIMINARY. NOT FOR USE IN DEVELOPING CONSTRUCTION BIDS



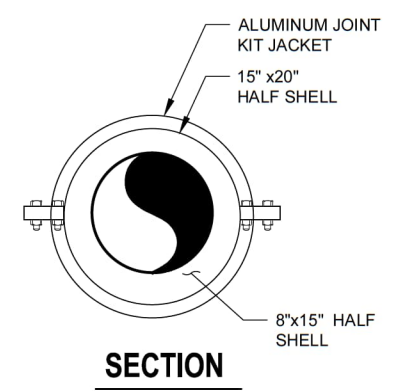
1 WATER UTILITY BOX ELEVATION
SCALE:



2 TYPICAL UTILITY TRENCH SECTION
SCALE:



3 FLEXIBLE EXPANSION JOINT DETAIL
SCALE:



TRENCH SECTION NOTES:

1. TRENCH EXCAVATION AND SHORING SHALL COMPLY WITH ALL LOCAL, STATE AND OSHA REGULATIONS AND REQUIREMENTS. INDICATED SLOPE IS FOR PAY QUANTITY DETERMINATIONS ONLY. CONTRACTOR SHALL SHORE EXCAVATIONS AS NECESSARY TO KEEP EXCAVATIONS WITHIN EXISTING RIGHT-OF-WAY AND EASEMENTS AND TO PROTECT EXISTING UTILITIES AND STRUCTURES
2. TRENCH BACKFILL BELOW STRUCTURAL SECTION (PAVED AREAS) OR BELOW TOPSOIL (UNPAVED AREAS) IS SUBSIDIARY TO PIPE PAY ITEM.
3. REMOVE AND PROPERLY DISPOSE OF ALL ORGANIC MATERIALS IN ACCORDANCE WITH MASS SECTION 20.13.
4. TRENCH BOX SHALL BE UTILIZED TO MINIMIZE TRENCH WIDTH, REDUCE IMPACTS TO ADJACENT PROPERTIES AND TO REMAIN WITHIN EXISTING ROW OR EASEMENTS.
5. INSTALL DETECTABLE LOCATOR TAPE AT LEAST 18 INCHES BUT NO MORE THAN 36 INCHES ABOVE THE CROWN OF THE PIPE.

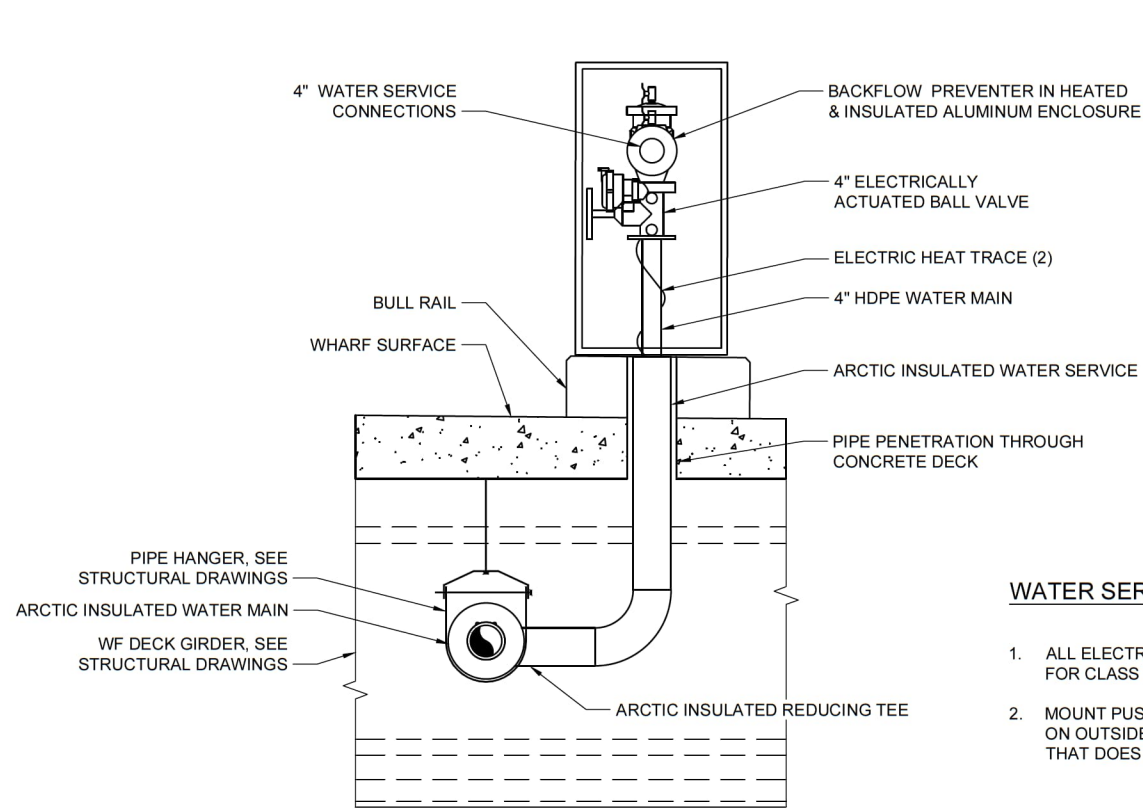
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<p>VERIFY SCALES</p> <p>BAR IS ONE INCH ON ORIGINAL DRAWING</p> <p>IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.</p>	<table border="1"> <thead> <tr> <th>REV</th> <th>DATE</th> <th>DESCRIPTION</th> <th>BY</th> <th>APVD</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	REV	DATE	DESCRIPTION	BY	APVD						<p>GHD-WSP JV 1400 W. BENSON BLVD, SUITE 400 ANCHORAGE, ALASKA 99503 AK ENGINEERING LICENSE # 197742(GHD) - AECC236(WSP) 2164152(GHD) - 1113511(WSP)</p>	<p>WSP 3940 ARCTIC BLVD, SUITE 300 ANCHORAGE, ALASKA 99503 PHONE: (907) 562-3252 #AEC0892-AK</p>	<p>CRW ENGINEERING GROUP 3940 ARCTIC BLVD, SUITE 300 ANCHORAGE, ALASKA 99503 PHONE: (907) 562-3252 #AEC0892-AK</p>	<p>PORT OF ALASKA</p>	<p>PORT OF ALASKA MODERNIZATION PROGRAM</p>	<p>CIVIL</p> <p>POTABLE WATER DETAILS</p>	<p>PORT OF ALASKA</p> <p>PORT OF ALASKA MODERNIZATION PROGRAM</p> <p>CARGO TERMINAL 1 DESIGN</p> <p>ANCHORAGE, ALASKA</p>	<p>HORIZ SCALE: AS SHOWN</p> <p>VERT SCALE: AS SHOWN</p>	<p>DATE: 11/14/23</p> <p>SHEET: # OF #</p>	<p>T1-C-533</p>
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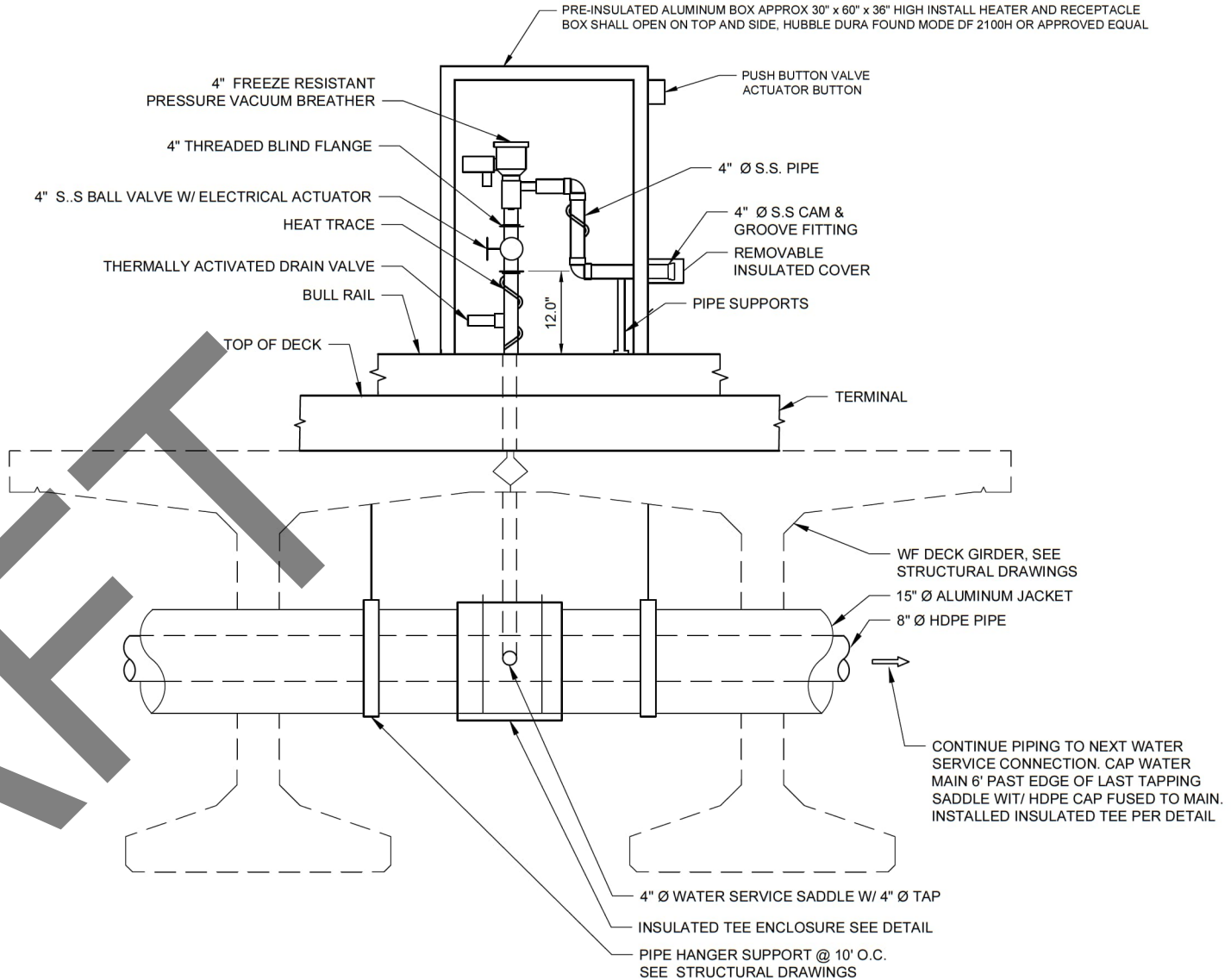
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WATER SERVICE ASSEMBLY NOTES:

1. ALL ELECTRICAL COMPONENTS SHALL BE SUITABLE FOR CLASS I, DIV 2 ENVIRONMENT.
2. MOUNT PUSH BUTTON VALVE ACTUATOR OPERATOR ON OUTSIDE OF BOX AS SHOWN AND IN LOCATION THAT DOES NOT INTERFERE W/ OPENING BOX

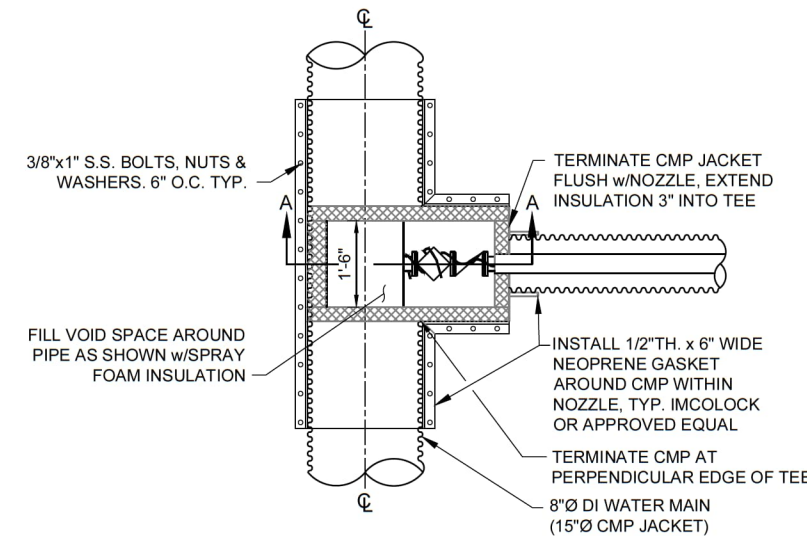


2 ALL - SEASON SHORE TO SHIP WATER SERVICE ASSEMBLY SECTION

SCALE:

1 ALL-SEASON SHORE TO SHIP WATER SERVICE ASSEMBLY SECTION

SCALE:



SPRAY FOAM INSULATION APPLIED TO INSIDE OF SERVICE TEE, 3\"/>

SERVICE TEE SECTION A-A

WATER SERVICE CONNECTION NOTES:

1. SUPPORT SERVICE PIPE UP TO MATCH WATER MAIN ELEVATION. DO NOT ROTATE SERVICE TEE.
2. SERVICE TEE INTENDED TO SPLIT INTO TOP & BOTTOM HALF & BOLT TOGETHER AROUND EDGE THROUGH ANGLE.
3. SERVICE TEE TO BE CONSTRUCTED WEATHER PROOF.
4. ALL INSULATION EXPOSED TO AIR CAVITY WITHIN SERVICE TEE SHALL BE COATED W/POLYSHIELD POLYUREA ELASTOMER 100 MILS, TYP.

3 WATER SERVICE CONNECTION TEE

SCALE:

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REV	DATE	DESCRIPTION	BY	APVD
REVISIONS				

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DSGN	DR	CHK	APVD
EH	EH	ME	ME
CONSULTANT			SEAL

3940 ARCTIC BLVD, SUITE 300
ANCHORAGE, ALASKA 99503
PHONE: (907) 952-3252
#ECL892-AK

CIVIL

POTABLE WATER DETILS

PORT OF ALASKA

PORT OF ALASKA MODERNIZATION PROGRAM

CARGO TERMINAL 1 DESIGN

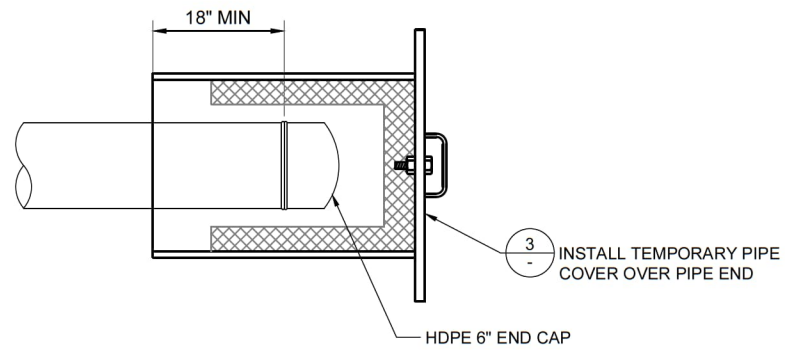
ANCHORAGE, ALASKA

HORIZ SCALE: AS SHOWN DATE: 11/14/23

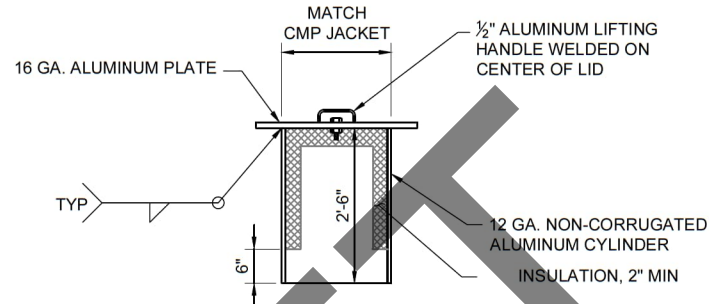
VERT SCALE: AS SHOWN SHEET: # OF #

T1-C-534

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1 WATER MAIN END CAP
SCALE:



2 PIPE COVER
SCALE:

DRAFT

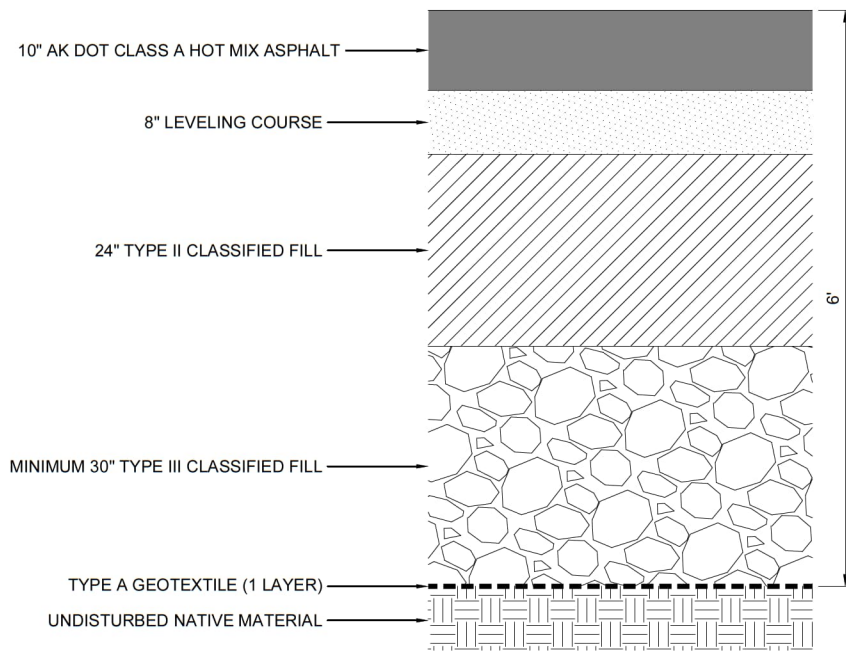
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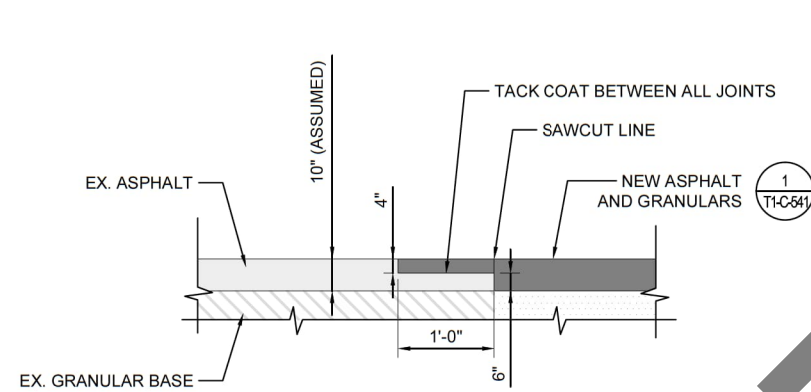
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REVISIONS		CONSULTANT		SEAL																																						

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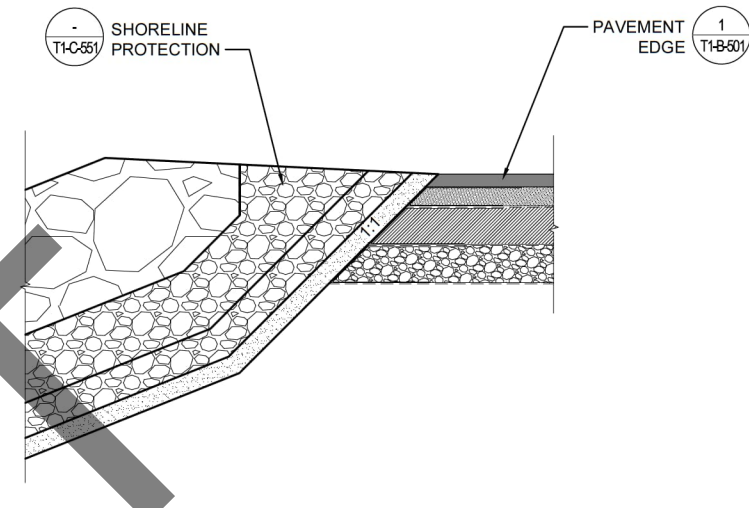


1 TYPICAL PAVEMENT DETAIL
SCALE: N.T.S. T1-C-312, T1-C-313



NOTE: CONTRACTOR TO VERIFY EXISTING ASPHALT THICKNESS.

2 ASPHALT PAVEMENT STEP JOINT DETAIL
SCALE: N.T.S. T1-C-203



3 COASTAL/ GEOTECHNICAL INTERFACE DETAIL
SCALE: N.T.S. T1-C-213, T1-C-214, T1-C-215

TO BE DEVELOPED

DRAFT

4 CURB TRANSITION DETAIL
SCALE: N.T.S. T1-C-XXX

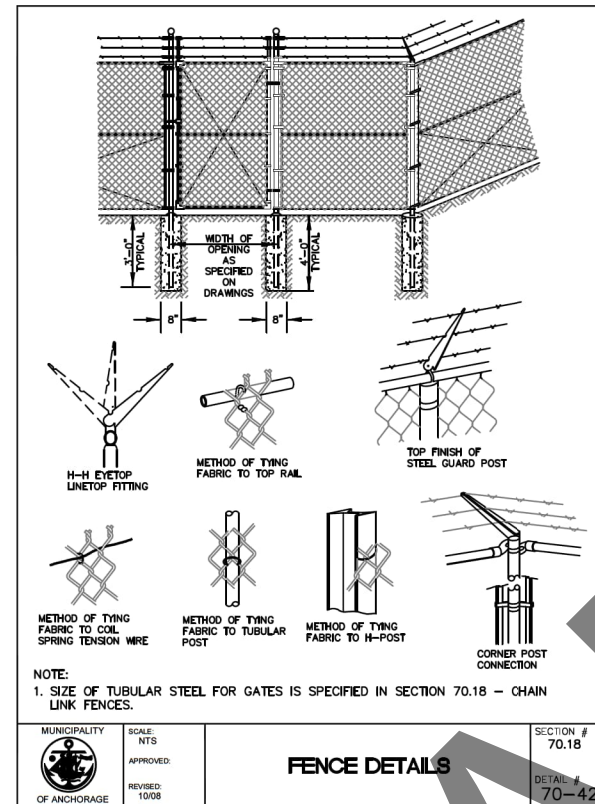
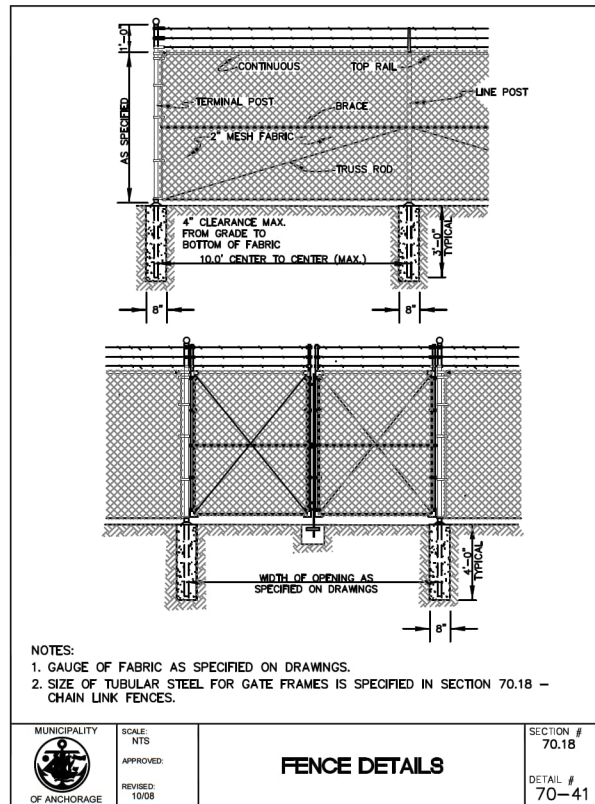
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<p>VERIFY SCALES</p> <p>BAR IS ONE INCH ON ORIGINAL DRAWING</p> <p>0 1"</p> <p>IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.</p>	REV	DATE	DESCRIPTION	BY	APVD	<p style="font-size: 8pt;">GHD-WSP JV 1400 W. BENSON BLVD, SUITE 400 ANCHORAGE, ALASKA 99503 AK ENGINEERING LICENSE # 197742(GHD) - AECC236(WSP) AK BUSINESS LICENSE # 2164152(GHD) - 1113511(WSP)</p>			<p>CIVIL</p> <p>DETAILS PAVING STRIPING & SIGNAGE (1 OF 3)</p>	PORT OF ALASKA											
	PORT OF ALASKA MODERNIZATION PROGRAM																				
	CARGO TERMINAL 1 DESIGN																				
REVISIONS						<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">DSGN</td> <td style="width: 25%;">DR</td> <td style="width: 25%;">CHK</td> <td style="width: 25%;">APVD</td> </tr> <tr> <td>AEM</td> <td>DJW</td> <td>AWC</td> <td>VHN</td> </tr> </table> <p style="text-align: center; font-size: 8pt;">CONSULTANT</p>	DSGN	DR	CHK	APVD	AEM	DJW	AWC	VHN	SEAL	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">HORIZ SCALE:</td> <td style="width: 50%;">DATE: OCT 10, 2023</td> </tr> <tr> <td>VERT SCALE:</td> <td>SHEET: OF</td> </tr> </table>	HORIZ SCALE:	DATE: OCT 10, 2023	VERT SCALE:	SHEET: OF	T1-C-541
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AEM	DJW	AWC	VHN																		
HORIZ SCALE:	DATE: OCT 10, 2023																				
VERT SCALE:	SHEET: OF																				

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GENERAL NOTES

1. STANDARD DETAILS SHOWN ON THIS SHEET ARE SOURCED FROM THE MUNICIPALITY OF ANCHORAGE STANDARD DETAILS RETRIEVED OCTOBER 2023.



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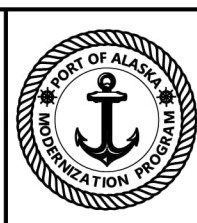
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REV	DATE	DESCRIPTION	BY	APVD

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DSGN	DR	CHK	APVD
AEM	DJW	AWC	VHN
CONSULTANT			

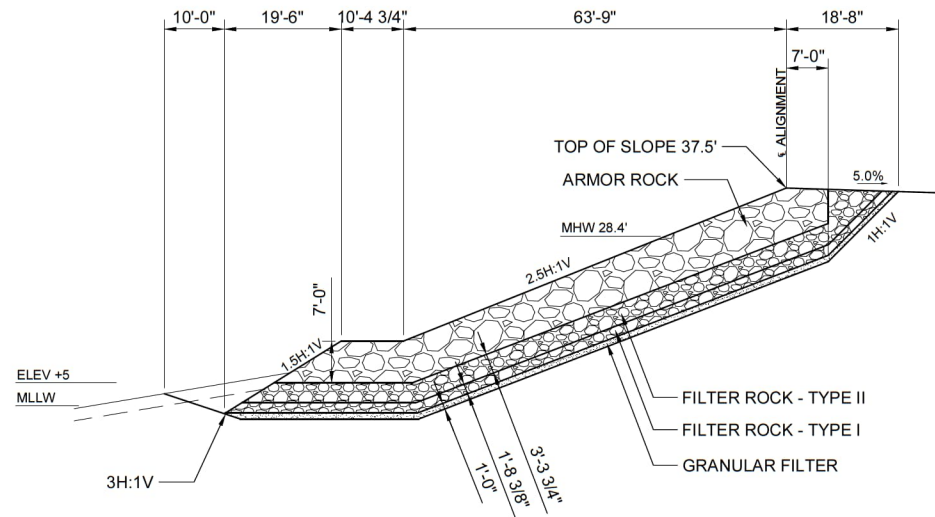
SEAL



CIVIL
 DETAILS
 PAVING STRIPING & SIGNAGE
 (3 OF 3)

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PORT OF ALASKA MODERNIZATION PROGRAM CARGO TERMINAL 1 DESIGN ANCHORAGE, ALASKA		
HORIZ SCALE:	DATE: OCT 10, 2023	T1-C-543
VERT SCALE:	SHEET: OF	

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SHORELINE PROTECTION DETAILS
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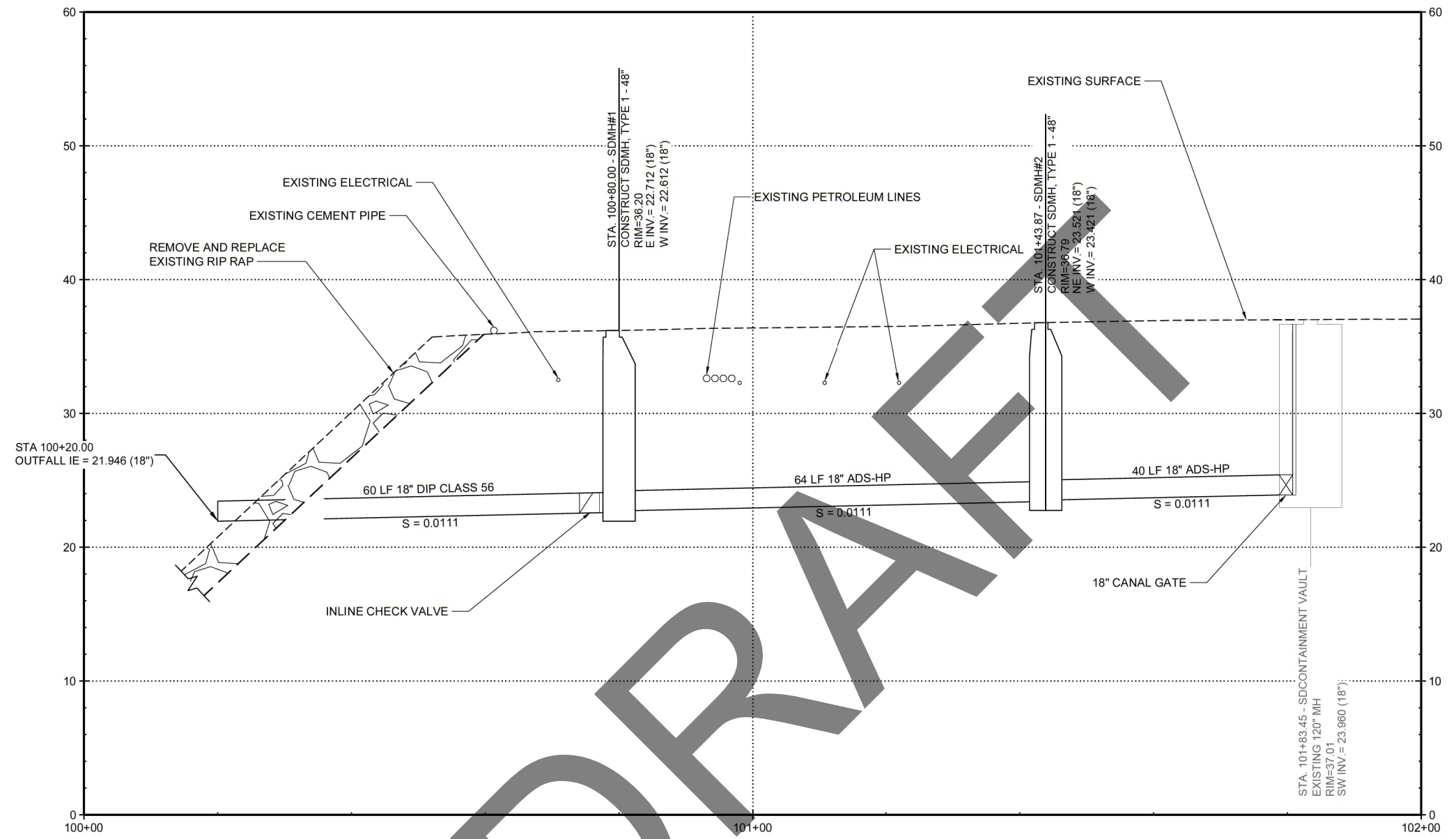
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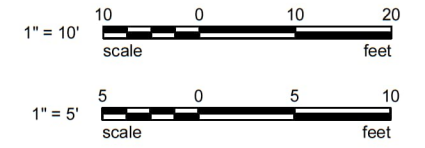
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		CONSULTANT						VERT SCALE:	SHEET: OF																																																					

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A PROFILE - SOUTH STORM DRAIN RELOCATION
 SCALE: HORIZ: 1" = 10' VERT: 1" = 5' C-411



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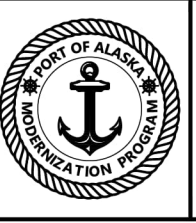
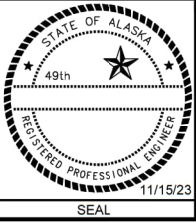
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REVISIONS

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 ANCHORAGE, ALASKA 99503
 AK ENGINEERING LICENSE # 197742(GHD) - AECC236(WSP)
 AK BUSINESS LICENSE # 2164152(GHD) - 113511(WSP)

WSP

DSGN	DR	CHK	APVD
XXX	JDM	MM	JRG
CONSULTANT			



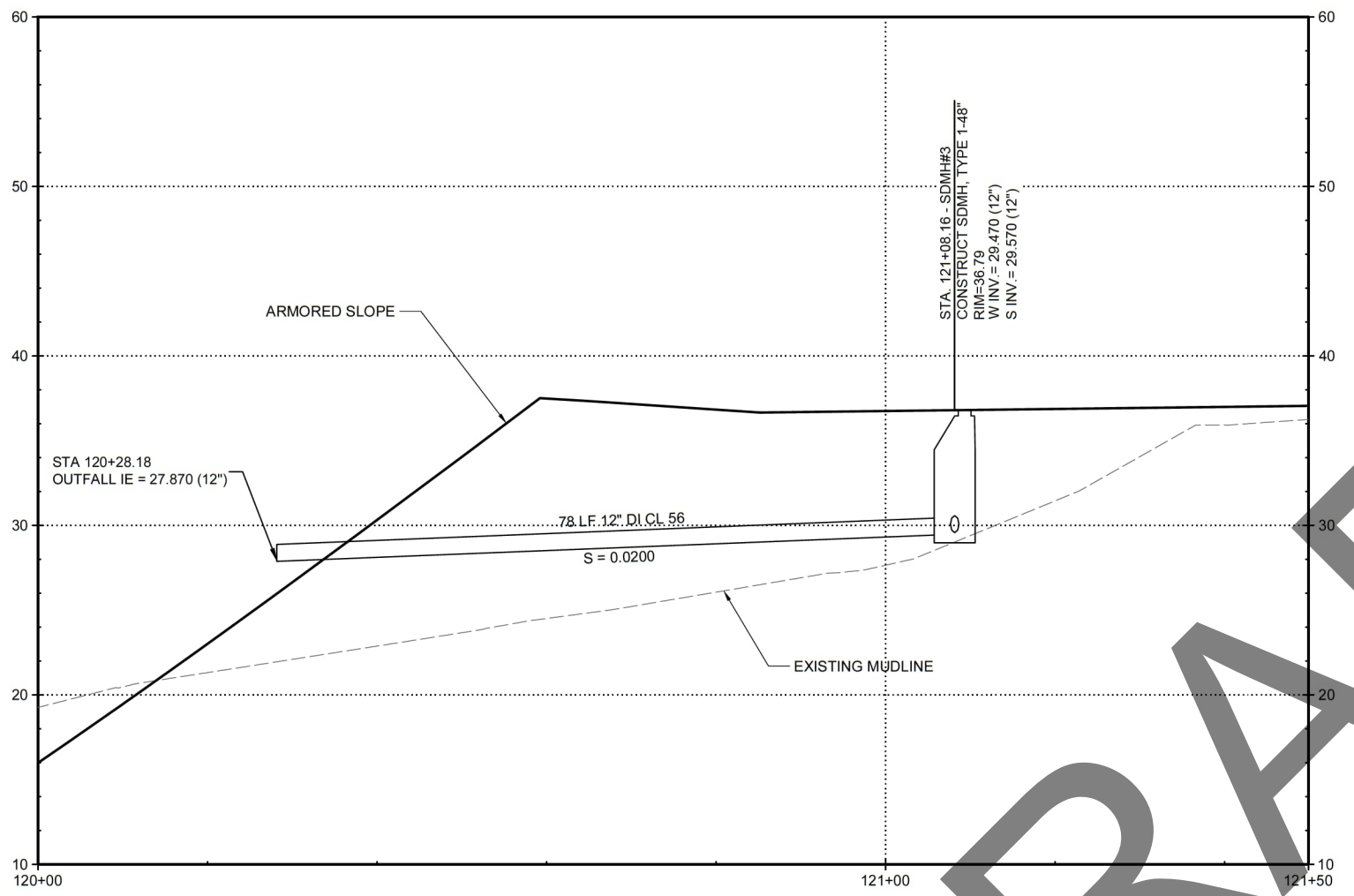
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DRAINAGE PROFILES (1 OF 2)

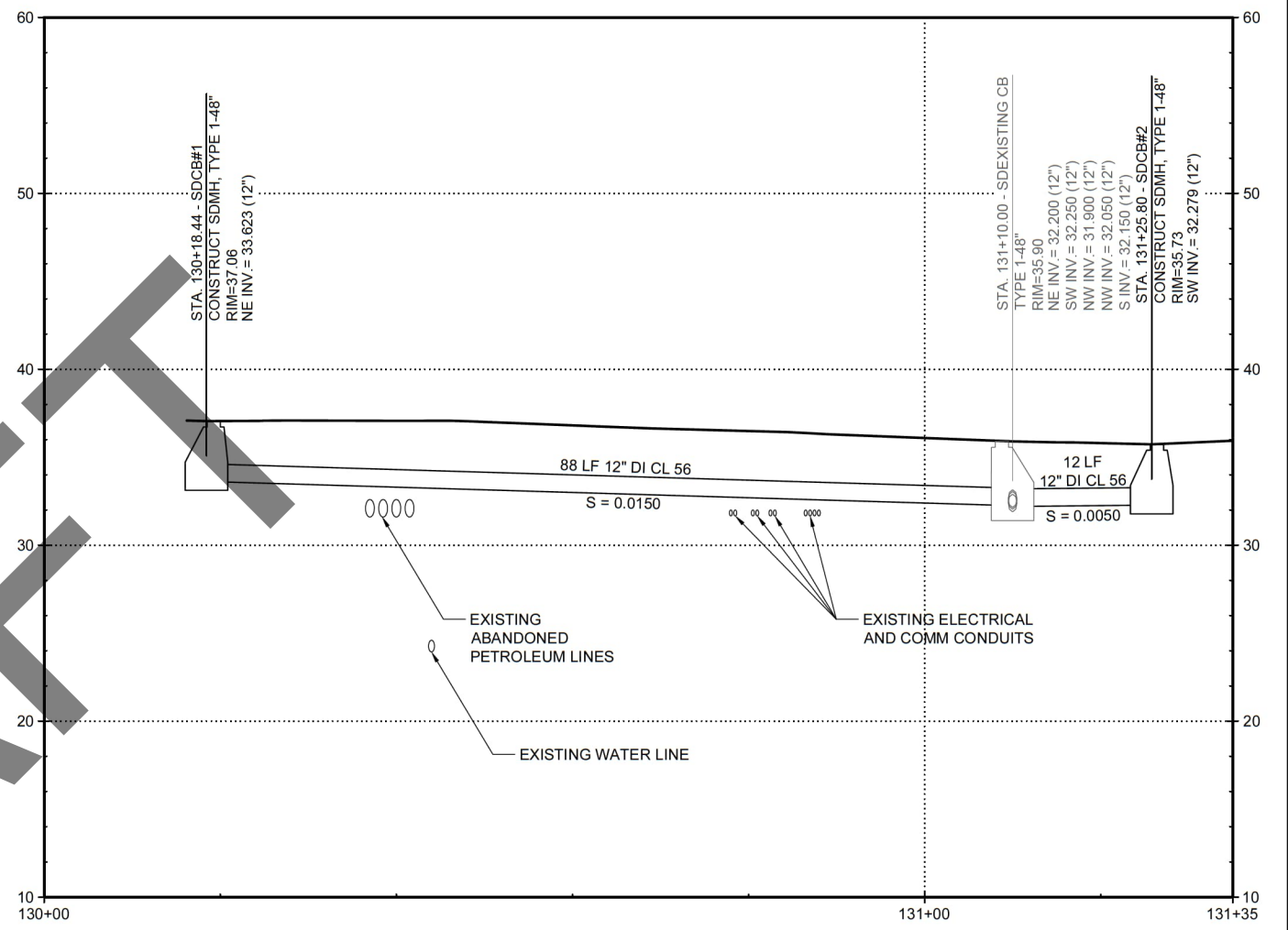
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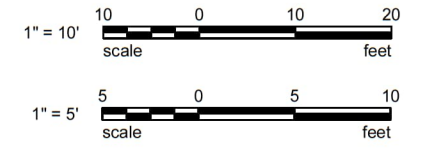


A PROFILE - SD-2
SCALE: HORIZ: 1" = 10' VERT: 1" = 5'



B PROFILE - SD-3
SCALE: HORIZ: 1" = 10' VERT: 1" = 5'

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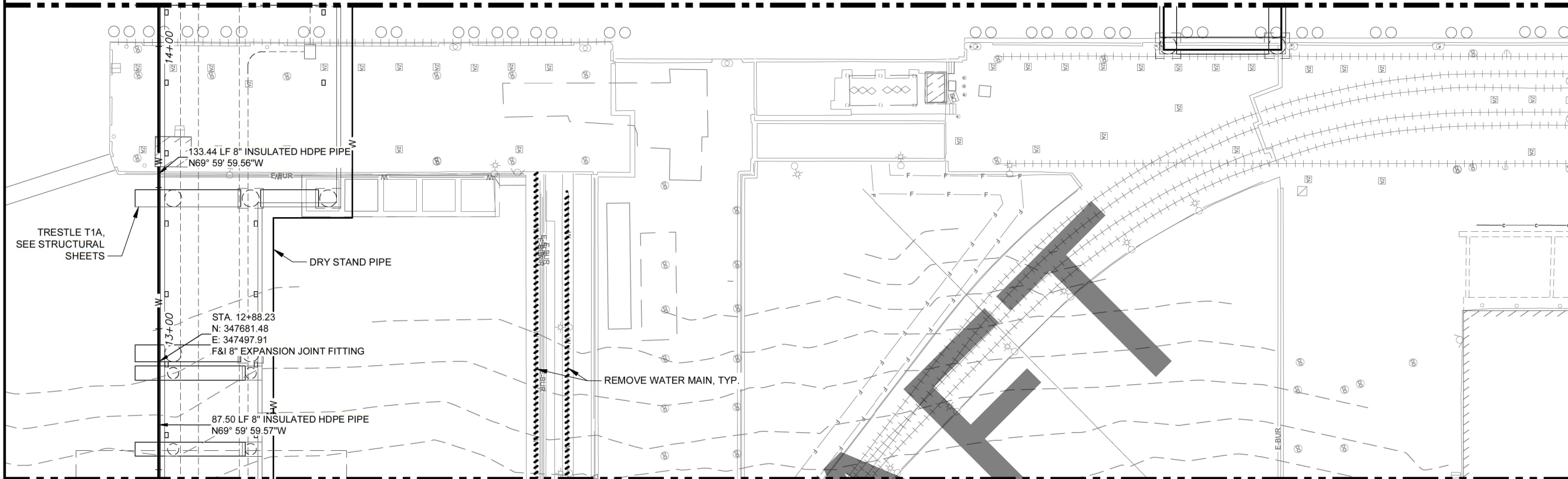


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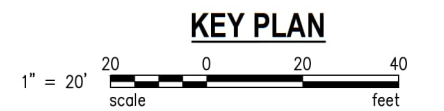
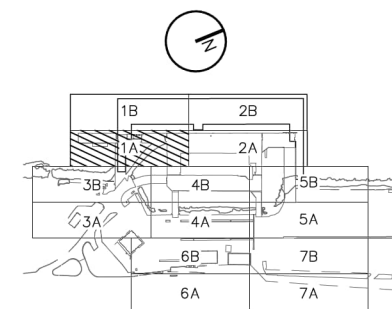
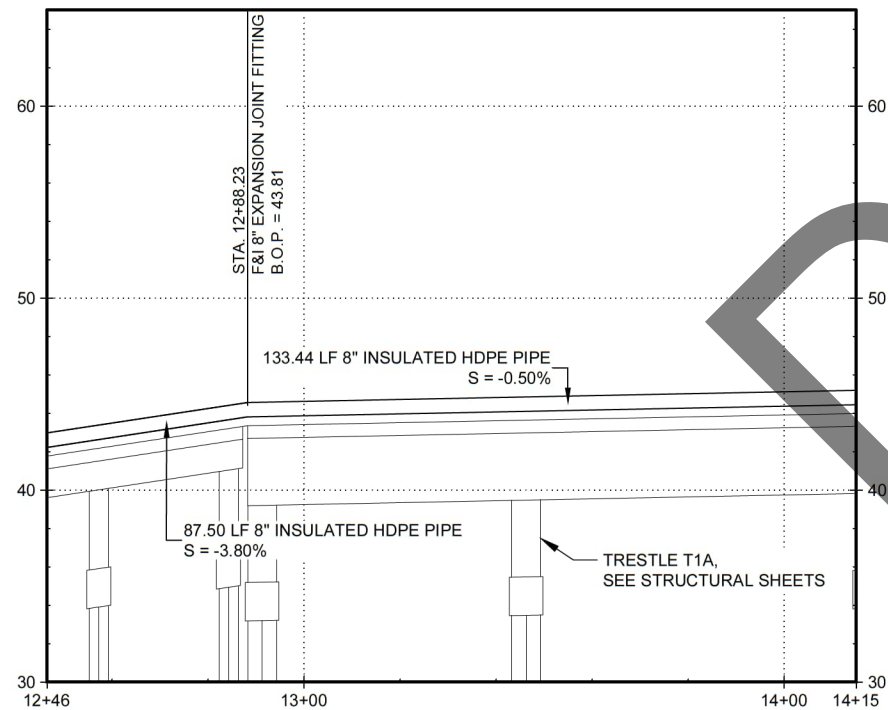
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DSGN	DR	CHK	APVD														
XXX	JDM	MM	JRG														
<p>REVISIONS</p>																	

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MATCHLINE, SEE SHEET C-832



MATCHLINE, SEE SHEET C-834




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REV	DATE	DESCRIPTION	BY	APVD

REVISIONS



GHD-WSP JV
1400 W. BENSON BLVD, SUITE 400
ANCHORAGE, ALASKA 99503
AK ENGINEERING LICENSE # 197742(GHD) - AECC236(WSP)
DSGN CC




WSP

2164152(GHD) - 111311(WSP)
DR CC



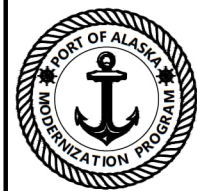
CRW ENGINEERING GROUP
3940 ARCTIC BLVD, SUITE 300
ANCHORAGE, ALASKA 99503
PHONE: (907) 562-3252
#REG182-AK
CHK ME
APVD ME

CONSULTANT



SEAL





CIVIL

UTILITIES - WHARF WATER PLAN & PROFILE

PORT OF ALASKA

PORT OF ALASKA MODERNIZATION PROGRAM

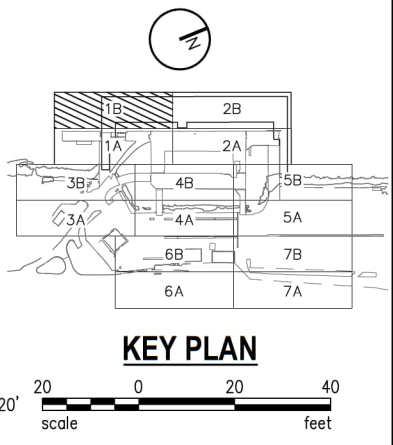
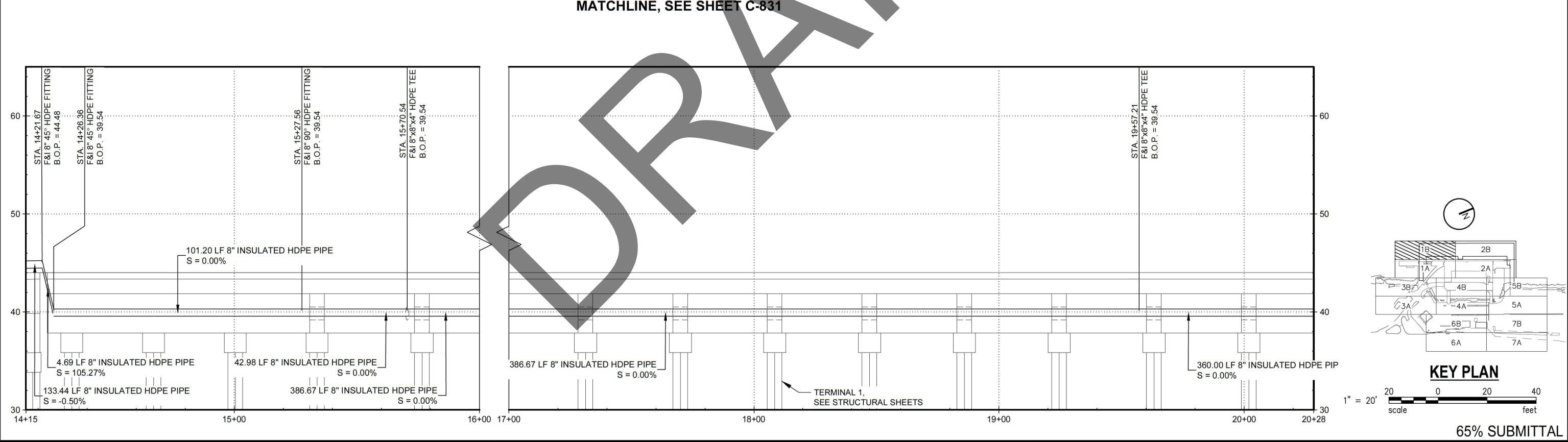
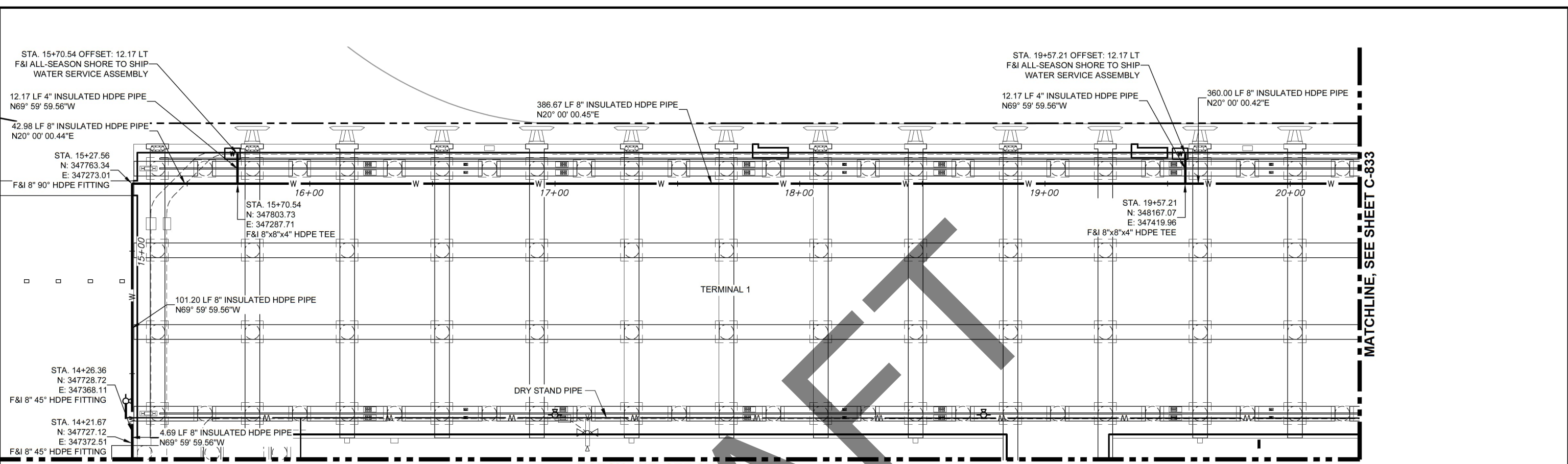
CARGO TERMINAL 1 DESIGN

ANCHORAGE, ALASKA

HORIZ SCALE: AS SHOWN	DATE: 11/14/23	T1-C-831
VERT SCALE: AS SHOWN	SHEET: # OF #	

PRELIMINARY. NOT FOR USE IN DEVELOPING CONSTRUCTION BIDS

Last Saved by: E.Hanks on: Nov 14, 2023 7:36 PM. File: J:\JobsData\78701.00 Port of Alaska Terminal 1 Replacement\00 CADD\01 Working Set\01 Civil\05_T1-C-832.dwg



REV	DATE	DESCRIPTION	BY	APVD

GHD-WSP JV
1400 W. BENSON BLVD, SUITE 400
ANCHORAGE, ALASKA 99503
AK ENGINEERING LICENSE # 197742(GHD) - AECC236(WSP)
DSGN CC

2164152(GHD) - 113511(WSP)
DR CC

3940 ARCTIC BLVD, SUITE 300
ANCHORAGE, ALASKA 99503
PHONE: (907) 952-3252
#ECL1852-AK
CHK ME

APVD ME

PORT OF ALASKA
MODERNIZATION PROGRAM

CIVIL

PORT OF ALASKA
MODERNIZATION PROGRAM

CIVIL

PORT OF ALASKA

PORT OF ALASKA MODERNIZATION PROGRAM

CARGO TERMINAL 1 DESIGN

ANCHORAGE, ALASKA

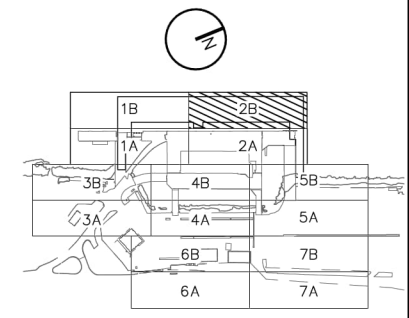
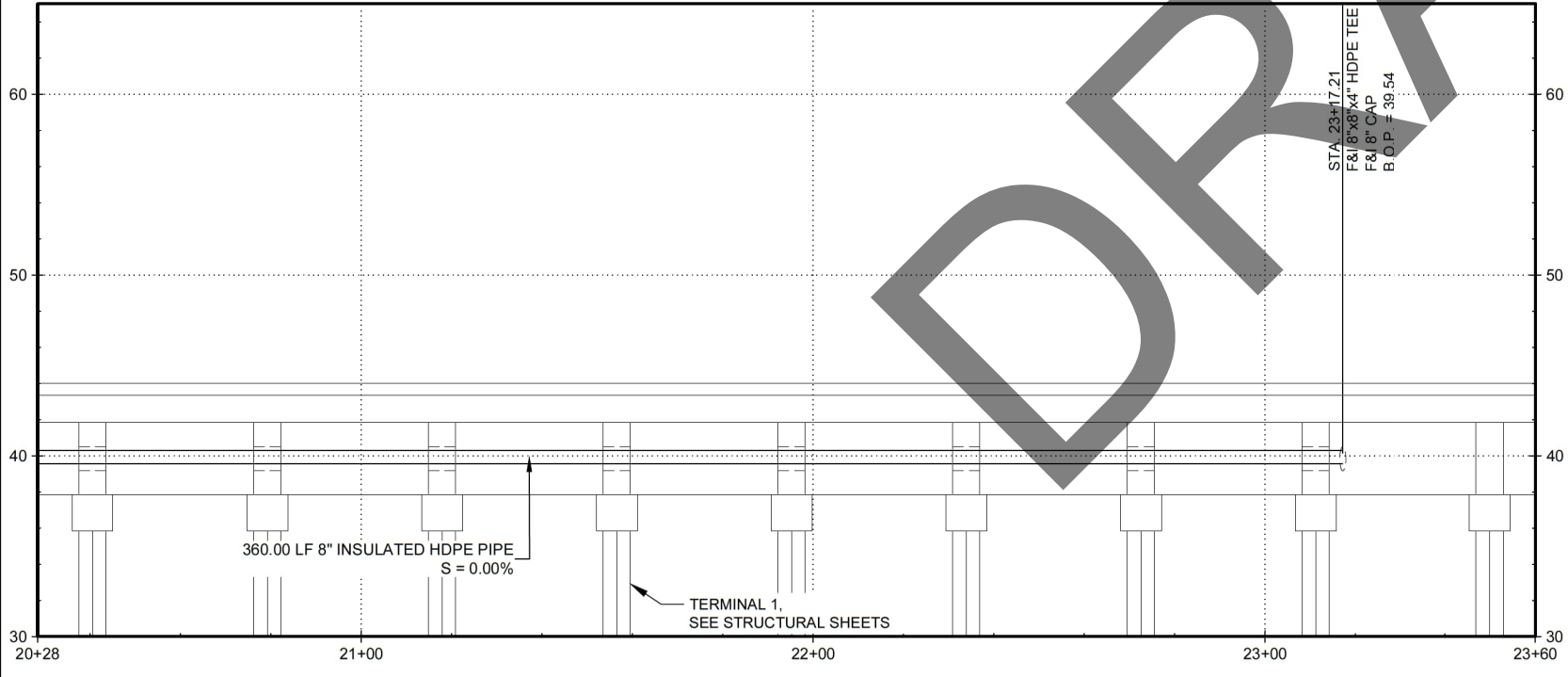
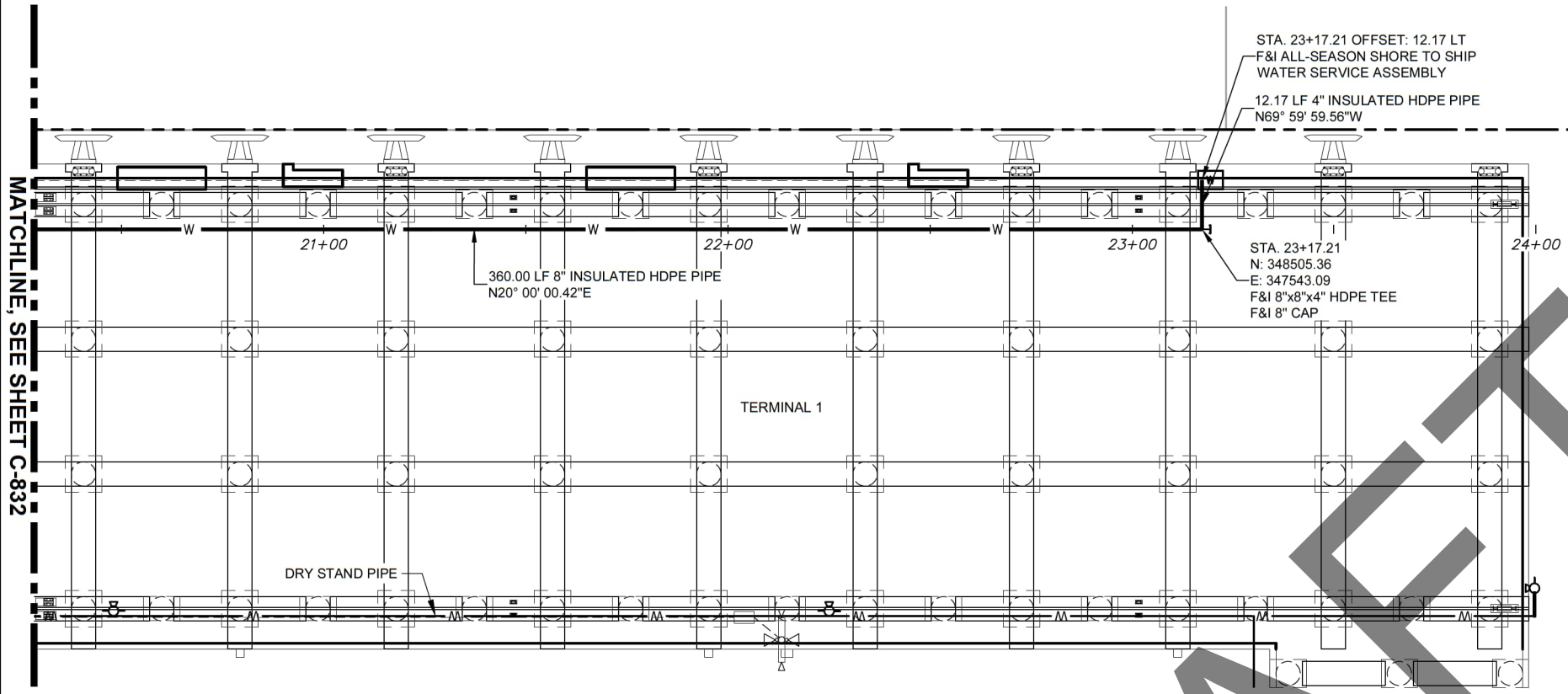
HORIZ SCALE: AS SHOWN
VERT SCALE: AS SHOWN

DATE: 11/14/23
SHEET: # OF #

T1-C-832

PRELIMINARY. NOT FOR USE IN DEVELOPING CONSTRUCTION BIDS

MATCHLINE, SEE SHEET C-832



1" = 20'
scale

65% SUBMITTAL

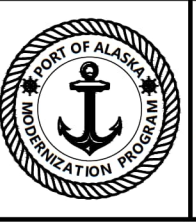
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REV	DATE	DESCRIPTION	BY	APVD

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

GHD-WSP JV 1400 W. BENSON BLVD, SUITE 400 ANCHORAGE, ALASKA 99503 AK ENGINEERING LICENSE # 197742(GHD) - AECC236(WSP) 2164152(GHD) - 1113511(WSP) DSGN DR CHK APVD CC CC ME ME CONSULTANT		

	SEAL
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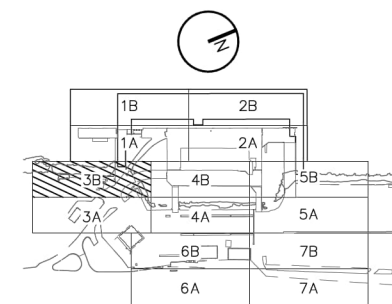
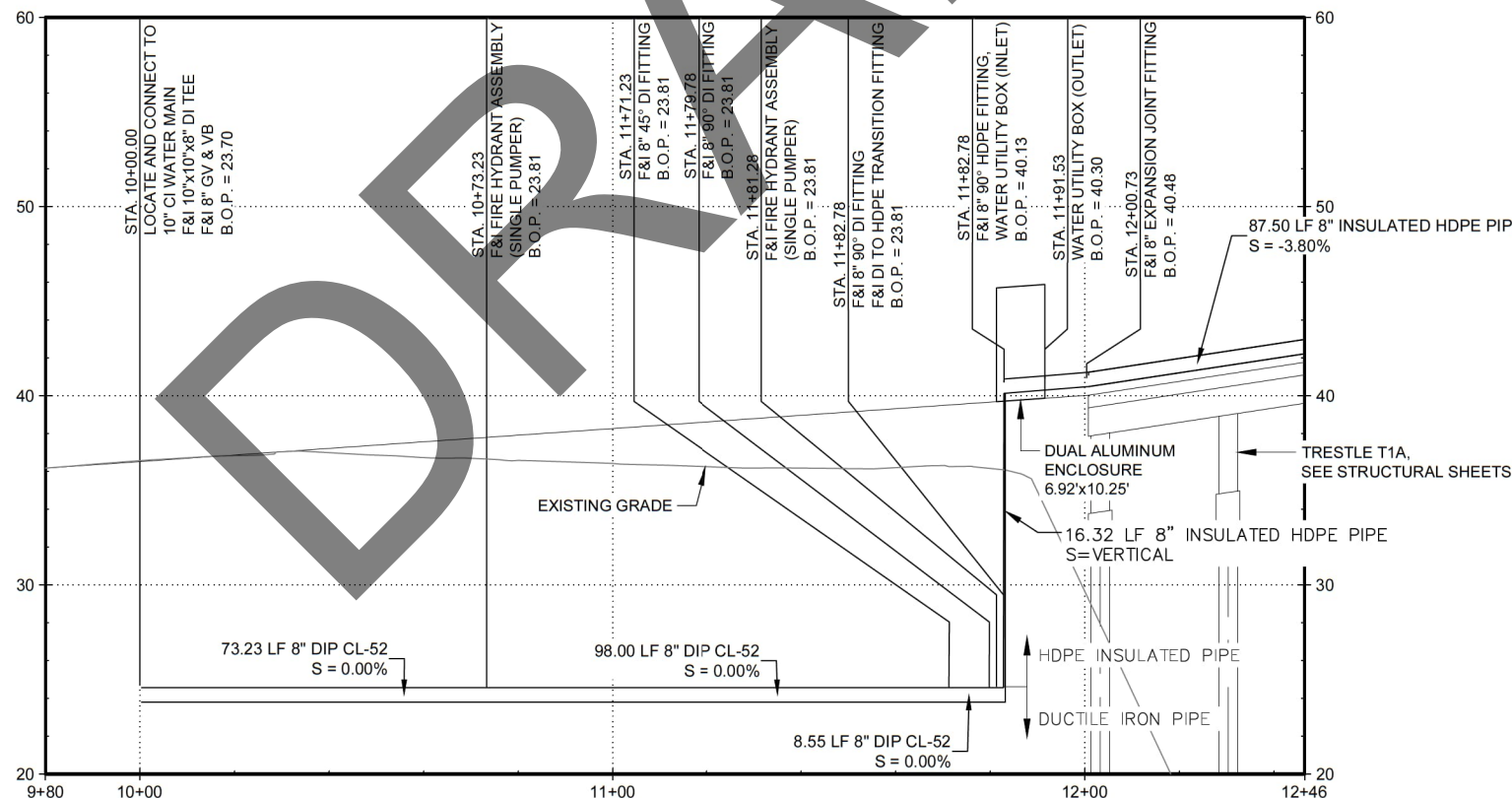
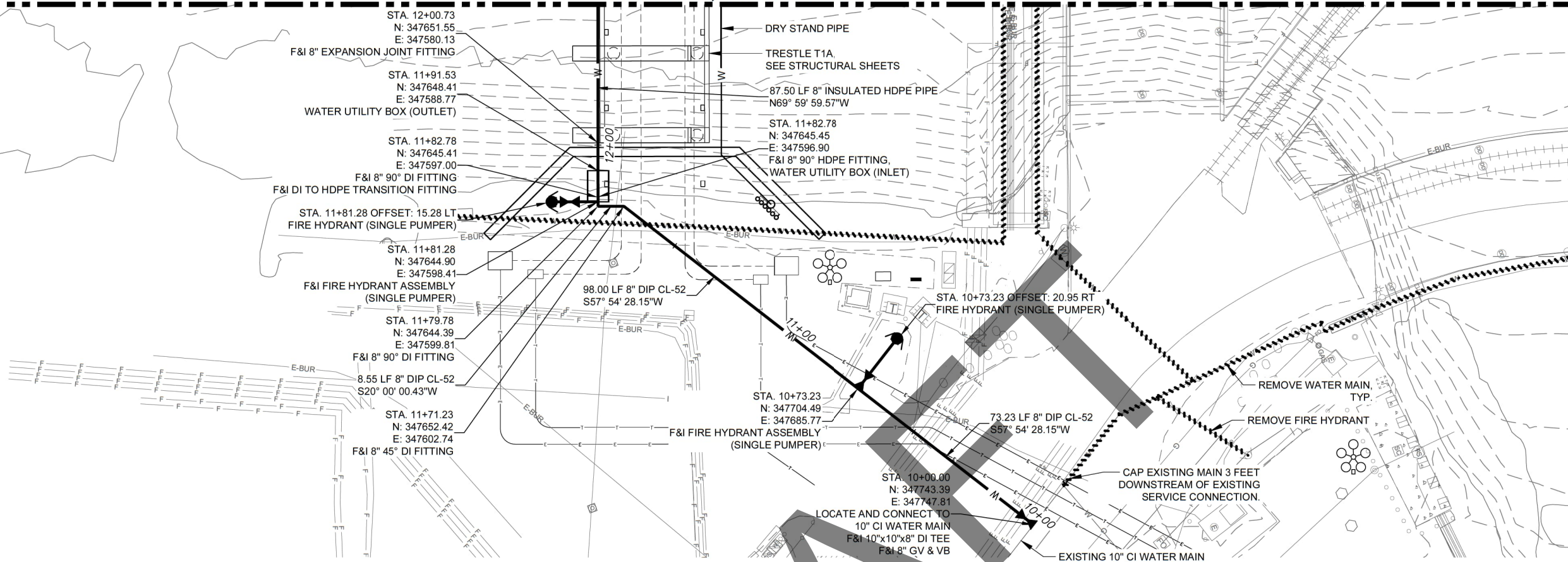


CIVIL
UTILITIES - WHARF WATER PLAN & PROFILE

PORT OF ALASKA	
PORT OF ALASKA MODERNIZATION PROGRAM	
CARGO TERMINAL 1 DESIGN	
ANCHORAGE, ALASKA	
HORIZ SCALE: AS SHOWN	DATE: 11/14/23
VERT SCALE: AS SHOWN	SHEET: # OF #
T1-C-833	

PRELIMINARY. NOT FOR USE IN DEVELOPING CONSTRUCTION BIDS

MATCHLINE, SEE SHEET C-831



1" = 20' scale feet

65% SUBMITTAL

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REV	DATE	DESCRIPTION	BY	APVD

VERIFY SCALES
 BAR IS ONE INCH ON ORIGINAL DRAWING
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

GHD-WSP JV
1400 W. BENSON BLVD, SUITE 400
ANCHORAGE, ALASKA 99503
AK ENGINEERING LICENSE # 197742(GHD) - AECC236(WSP)
2164152(GHD) - 113511(WSP)

WSP
2164152(GHD) - 113511(WSP)

CRW ENGINEERING GROUP
3940 ARCTIC BLVD, SUITE 300
ANCHORAGE, ALASKA 99503
PHONE: (907) 562-3252
#EEL892-AK

CC	DR	CHK	APVD
CONSULTANT		ME	ME

###/###/###
SEAL

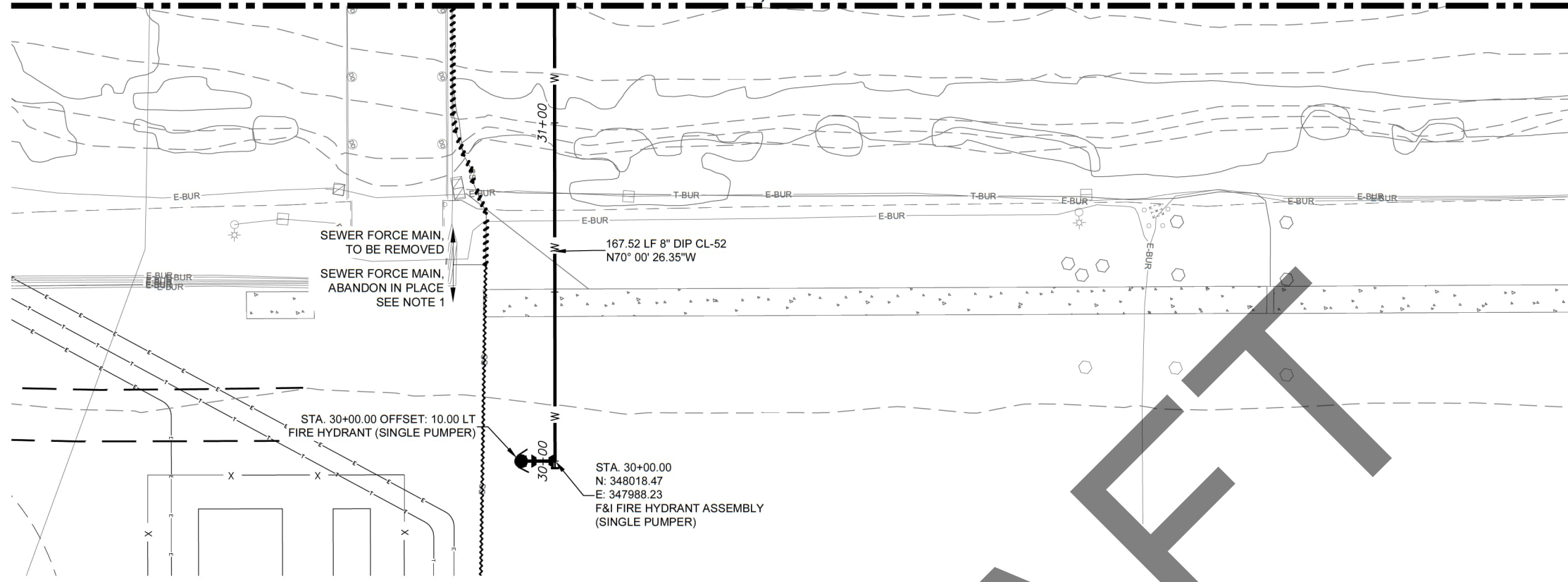
CIVIL
 UTILITIES - WHARF WATER PLAN & PROFILE

PORT OF ALASKA
 PORT OF ALASKA MODERNIZATION PROGRAM
 CARGO TERMINAL 1 DESIGN
 ANCHORAGE, ALASKA

HORIZ SCALE: AS SHOWN	DATE: 11/14/23	T1-C-834
VERT SCALE: AS SHOWN	SHEET: # OF #	

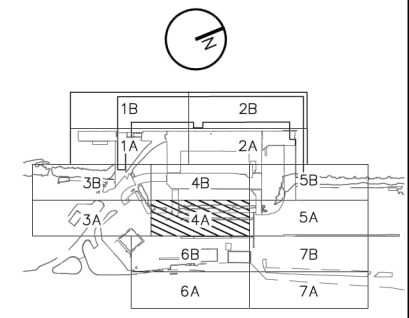
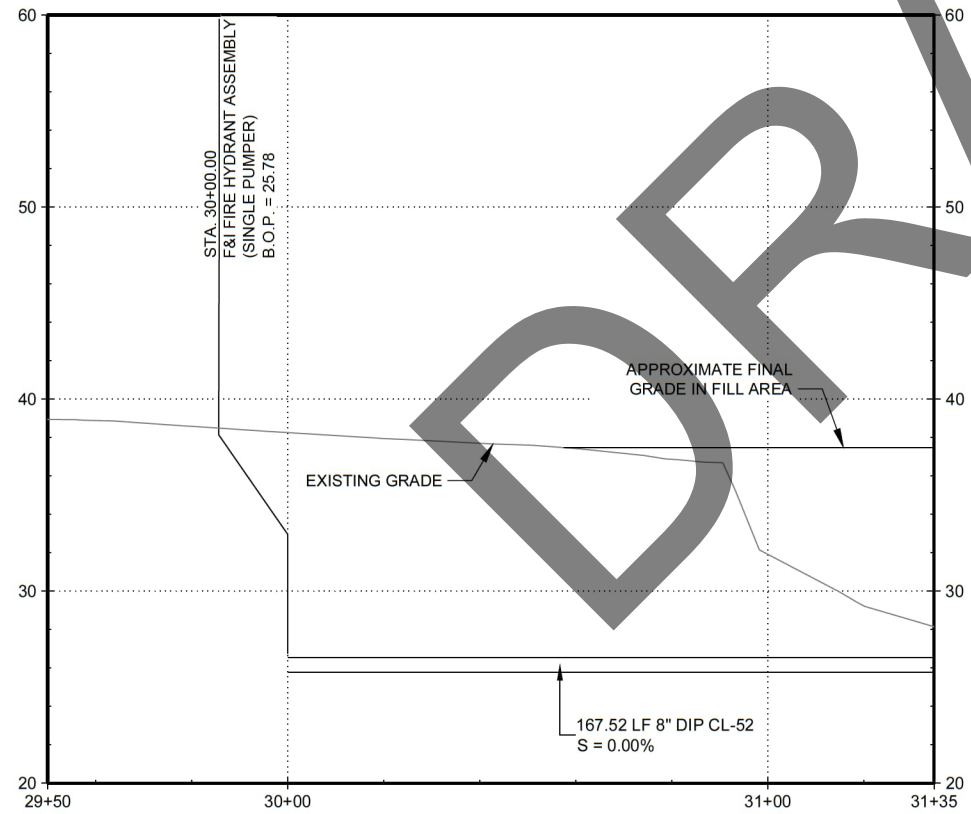
PRELIMINARY. NOT FOR USE IN DEVELOPING CONSTRUCTION BIDS

MATCHLINE, SEE SHEET C-836

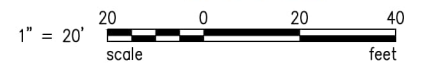


NOTES:

1. ABOVE GRADE SANITARY SEWER FORCE MAIN SHALL BE REMOVED, WHILE THE BELOW GRADE SEWER FORCE MAIN SHALL BE ABANDON-IN-PLACE IN IT ENTIRETY OR UNTIL THE NEXT SERVICE LINE CONNECTION.



KEY PLAN



65% SUBMITTAL

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REV	DATE	DESCRIPTION	BY	APVD

GHD-WSP JV 1400 W. BENSON BLVD, SUITE 400 ANCHORAGE, ALASKA 99503 AK ENGINEERING LICENSE # 197742(GHD) - AECC236(WSP) AK BUSINESS LICENSE # 2164152(GHD) - 113511(WSP)		
DSGN	DR	CHK
CC	CC	ME
CONSULTANT		

SEAL

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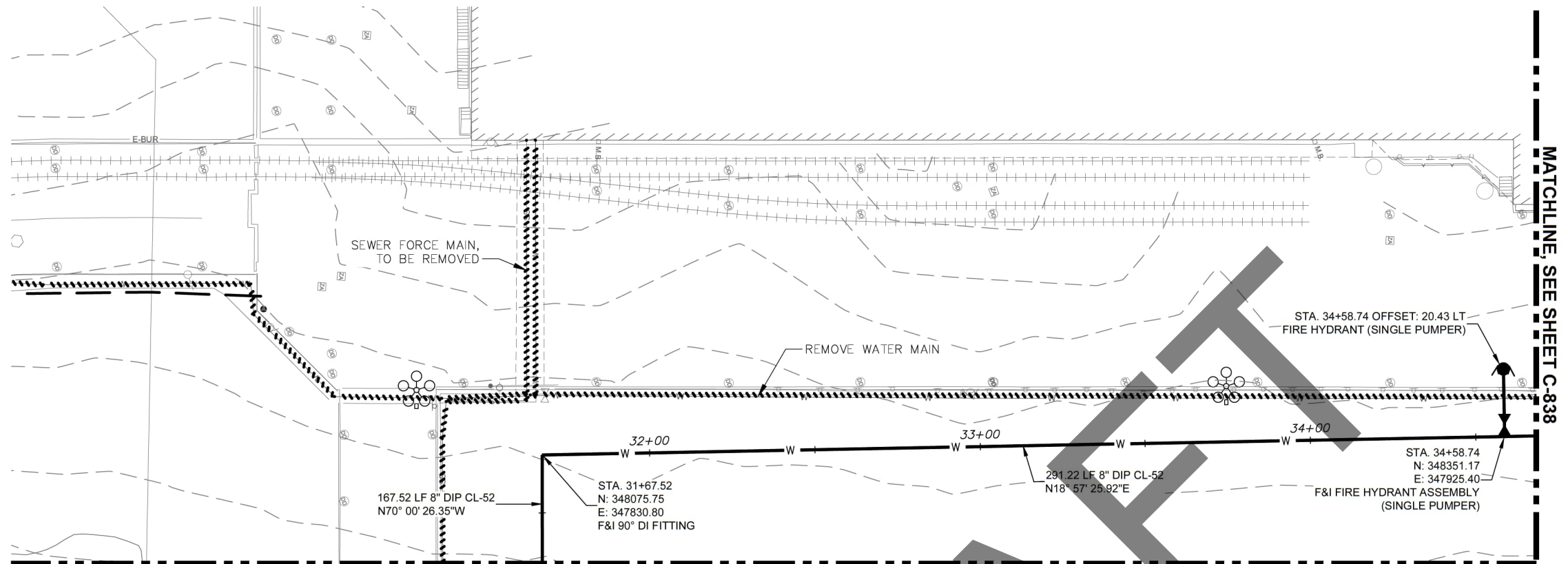
CIVIL

UTILITIES - WHARF WATER PLAN & PROFILE

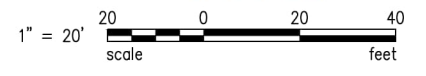
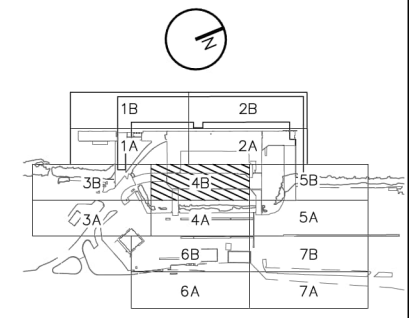
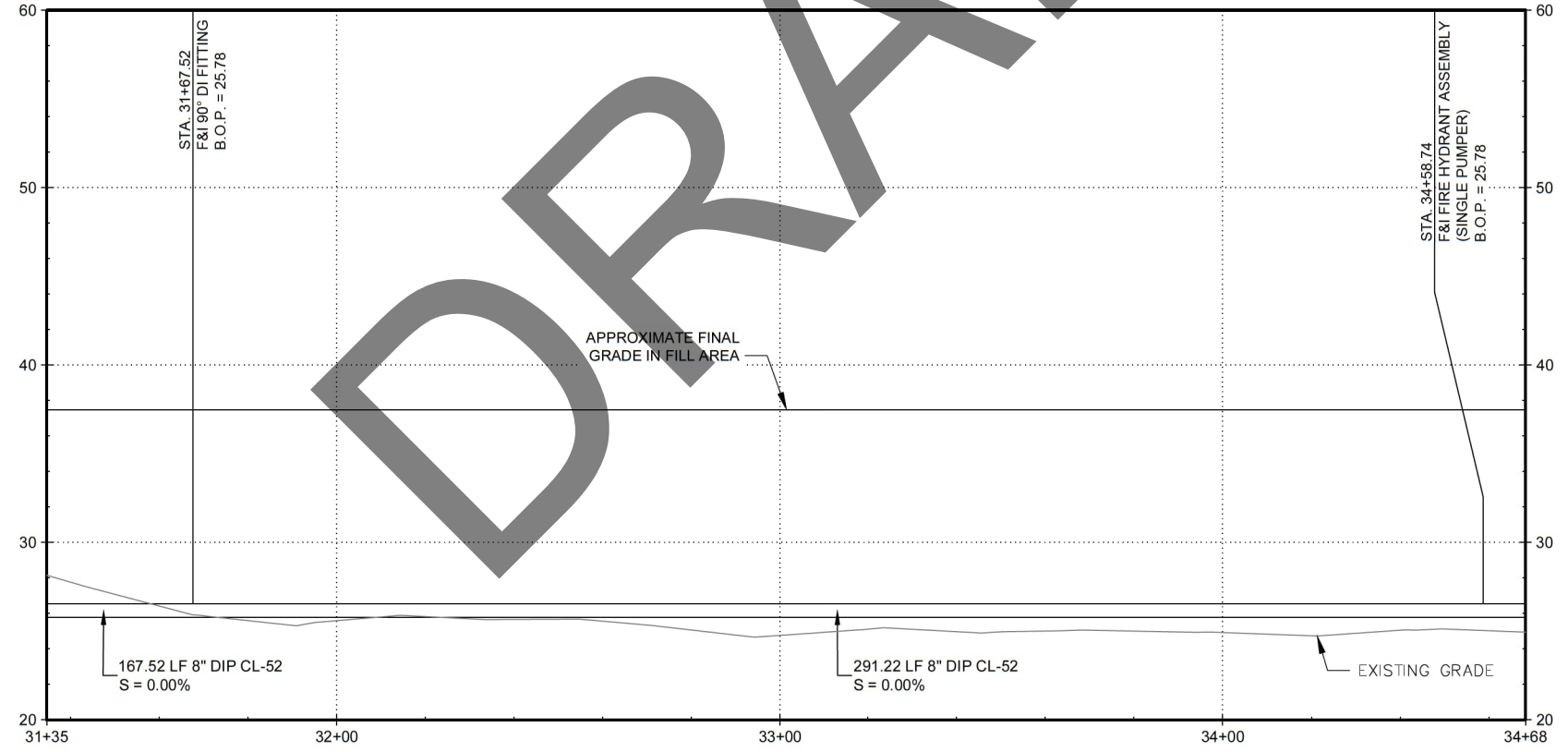
PORT OF ALASKA		
PORT OF ALASKA MODERNIZATION PROGRAM		
CARGO TERMINAL 1 DESIGN		
ANCHORAGE, ALASKA		
HORIZ SCALE: AS SHOWN	DATE: 11/14/23	T1-C-835
VERT SCALE: AS SHOWN	SHEET: # OF #	

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MATCHLINE, SEE SHEET C-835



65% SUBMITTAL

REV	DATE	DESCRIPTION	BY	APVD

VERIFY SCALES
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GHD	wsp	CRW
GHD-WSP JV 1400 W. BENSON BLVD, SUITE 400 ANCHORAGE, ALASKA 99503 AK ENGINEERING LICENSE # 197742(GHD) - AECC236(WSP) DSGN	2164152(GHD) - 1113511(WSP) CHK	3940 ARCTIC BLVD, SUITE 300 ANCHORAGE, ALASKA 99503 PHONE: (907) 562-3252 #ECL892-AK APVD
CC	ME	ME
CONSULTANT		

SEAL
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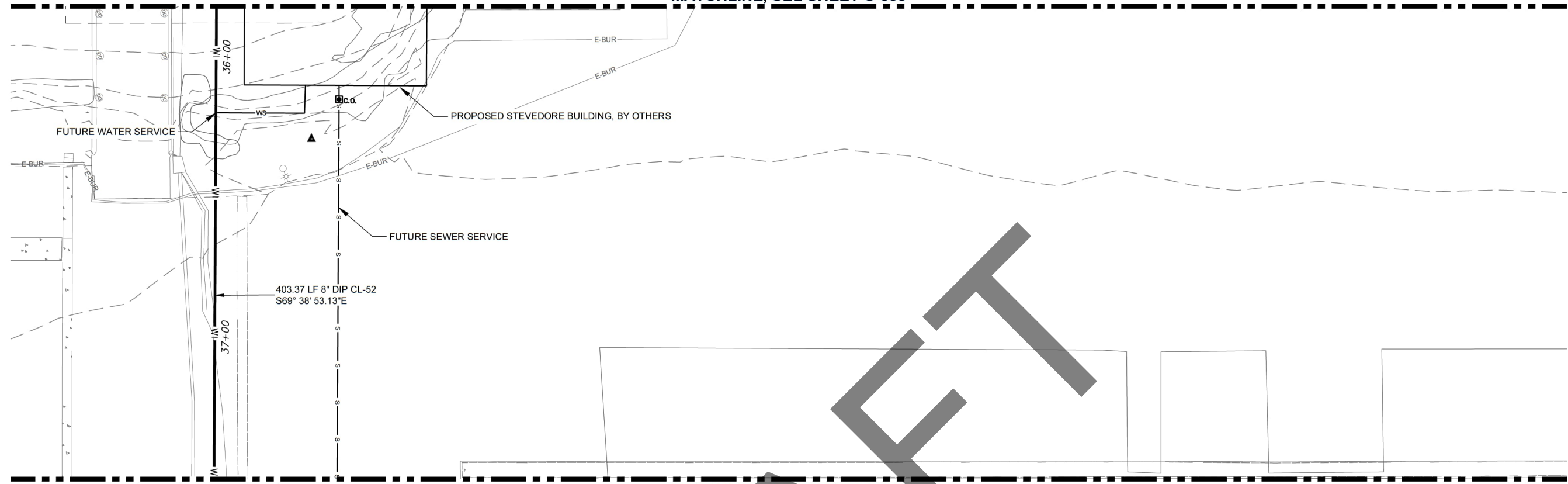


CIVIL
UTILITIES - WHARF WATER PLAN & PROFILE

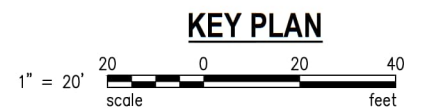
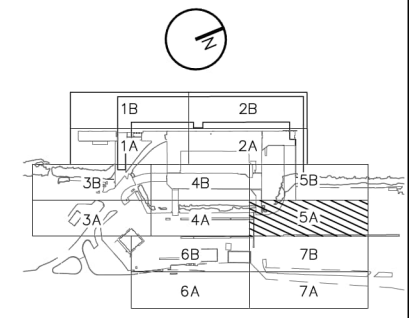
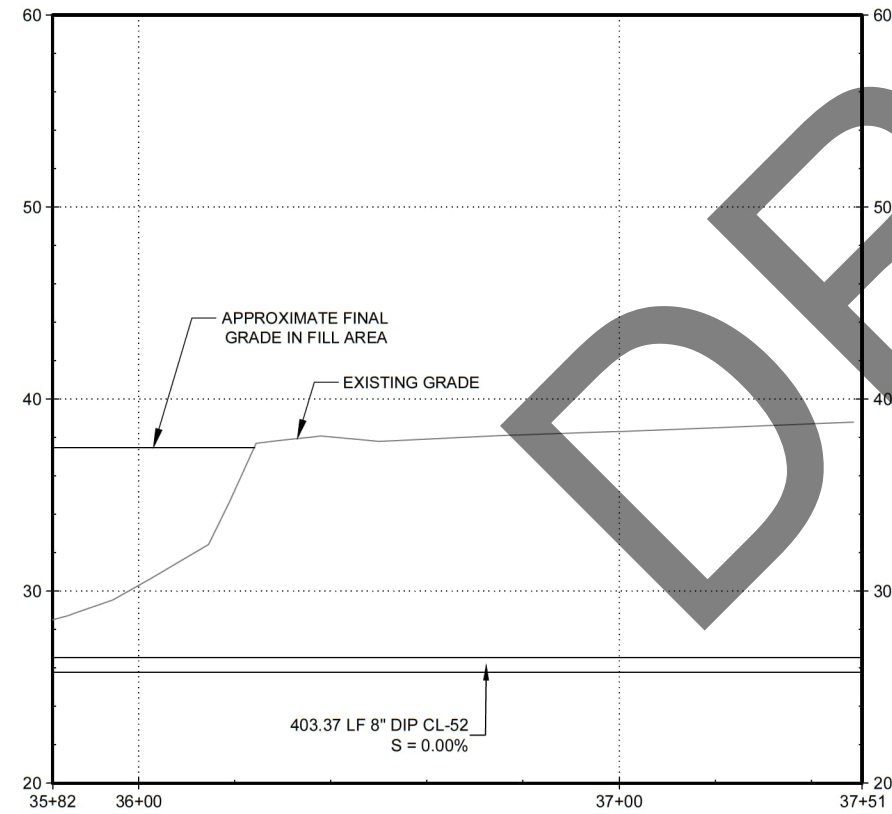
PORT OF ALASKA		
PORT OF ALASKA MODERNIZATION PROGRAM		
CARGO TERMINAL 1 DESIGN		
ANCHORAGE, ALASKA		
HORIZ SCALE: AS SHOWN	DATE: 11/14/23	T1-C-836
VERT SCALE: AS SHOWN	SHEET: # OF #	

PRELIMINARY. NOT FOR USE IN DEVELOPING CONSTRUCTION BIDS

MATCHLINE, SEE SHEET C-838



MATCHLINE, SEE SHEET C-840



65% SUBMITTAL

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REV	DATE	DESCRIPTION	BY	APVD

VERIFY SCALES
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 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

GHD-WSP JV 1400 W. BENSON BLVD, SUITE 400 ANCHORAGE, ALASKA 99503 AK ENGINEERING LICENSE # 197742(GHD) - AECC236(WSP) AK BUSINESS LICENSE # 2164152(GHD) - 1113511(WSP)			
DSGN	DR	CHK	APVD
CC	CC	ME	ME
CONSULTANT			SEAL

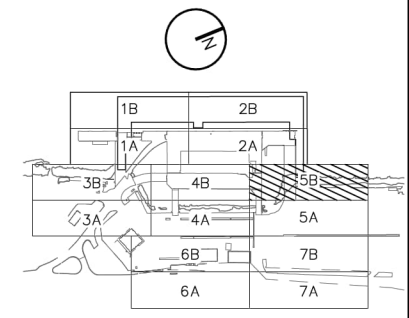
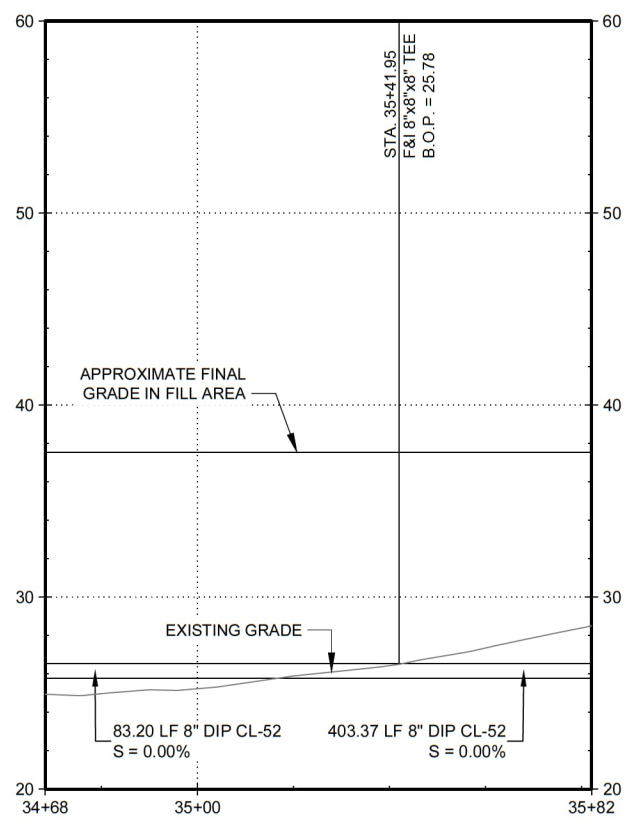
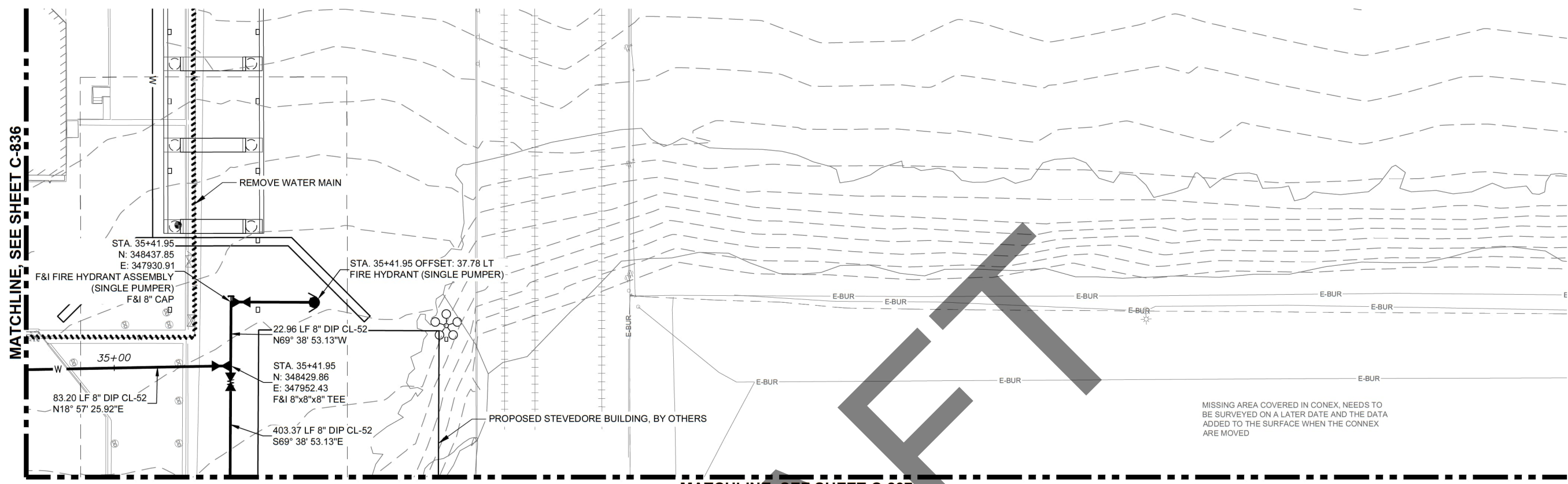


CIVIL
 UTILITIES - WHARF WATER PLAN & PROFILE

PORT OF ALASKA	
PORT OF ALASKA MODERNIZATION PROGRAM	
CARGO TERMINAL 1 DESIGN	
ANCHORAGE, ALASKA	
HORIZ SCALE: AS SHOWN	DATE: 11/14/23
VERT SCALE: AS SHOWN	SHEET: # OF #
T1-C-837	

PRELIMINARY. NOT FOR USE IN DEVELOPING CONSTRUCTION BIDS

DRAFT



1" = 20' scale

65% SUBMITTAL

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REV	DATE	DESCRIPTION	BY	APVD

GHD-WSP JV 1400 W. BENSON BLVD, SUITE 400 ANCHORAGE, ALASKA 99503 AK ENGINEERING LICENSE # 197742(GHD) - AECC236(WSP) AK BUSINESS LICENSE # 2164152(GHD) - 113511(WSP)			
DSGN	DR	CHK	APVD
CC	CC	ME	ME
CONSULTANT			

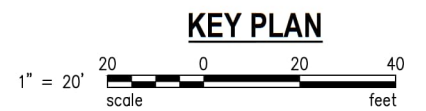
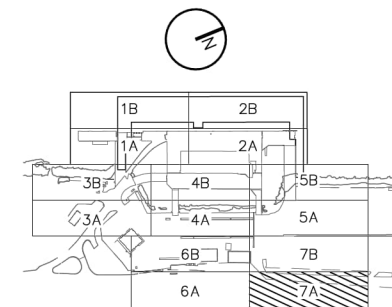
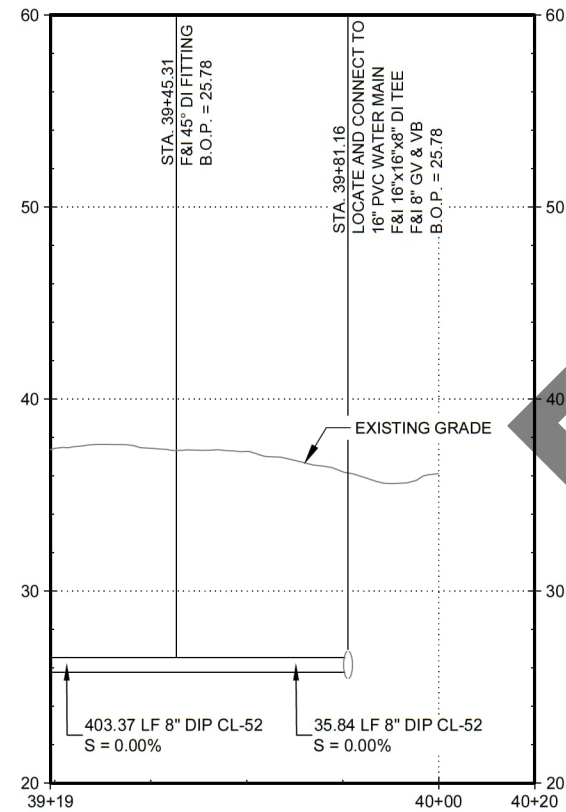
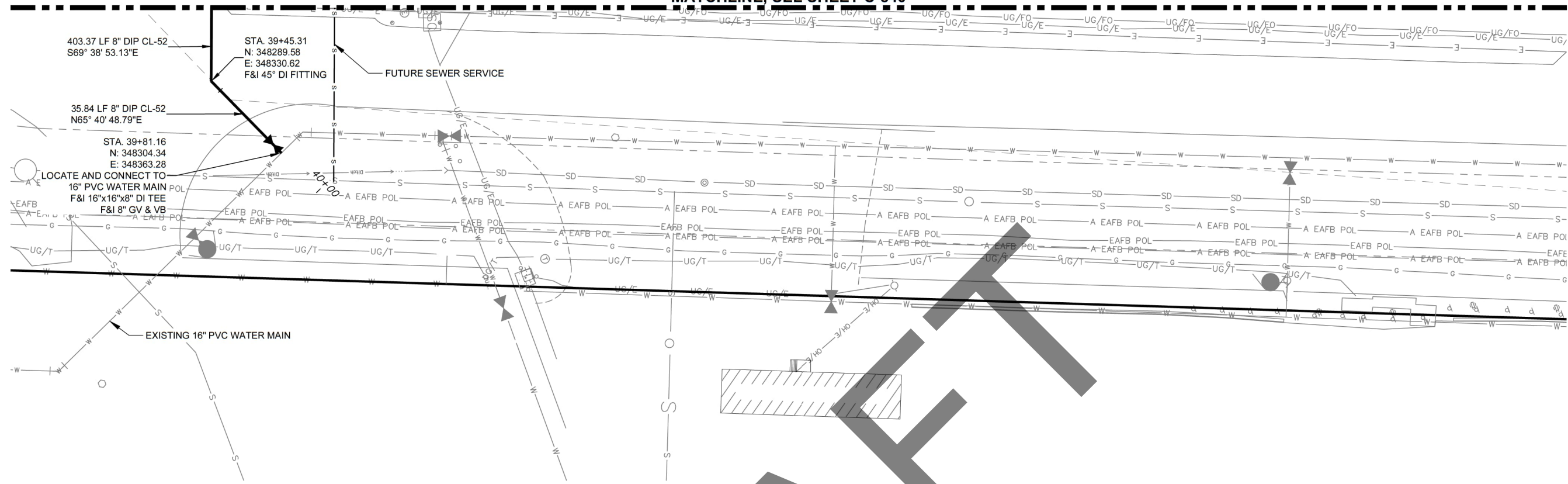
	SEAL
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	CIVIL
	UTILITIES - WHARF WATER PLAN & PROFILE

PORT OF ALASKA	
PORT OF ALASKA MODERNIZATION PROGRAM	
CARGO TERMINAL 1 DESIGN	
ANCHORAGE, ALASKA	
HORIZ SCALE: AS SHOWN	DATE: 11/14/23
VERT SCALE: AS SHOWN	SHEET: # OF #
T1-C-838	

PRELIMINARY. NOT FOR USE IN DEVELOPING CONSTRUCTION BIDS

MATCHLINE, SEE SHEET C-840



65% SUBMITTAL

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REV	DATE	DESCRIPTION	BY	APVD

GHD-WSP JV
1400 W. BENSON BLVD, SUITE 400
ANCHORAGE, ALASKA 99503
AK ENGINEERING LICENSE # 197742(GHD) - AECC236(WSP)

2164152(GHD) - 111311(WSP)

3940 ARCTIC BLVD, SUITE 300
ANCHORAGE, ALASKA 99503
PHONE: (907) 952-3252
#AEC092-AK

DSGN	DR	CHK	APVD
CC	CC	ME	ME

CONSULTANT

CIVIL

UTILITIES - WHARF WATER PLAN & PROFILE

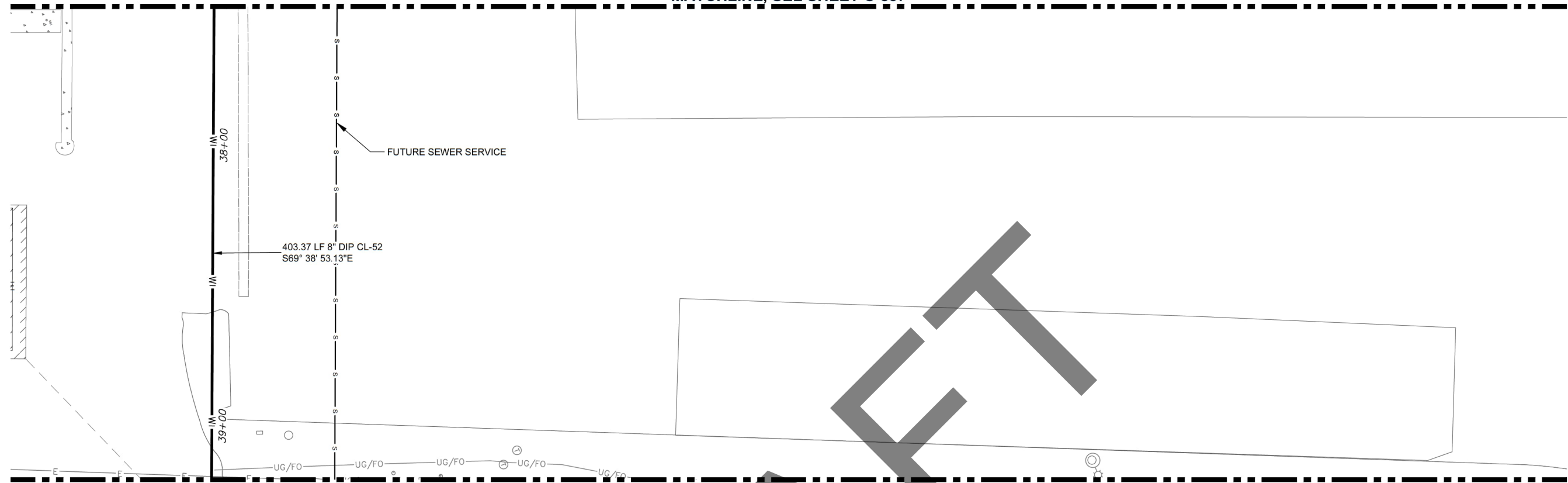
PORT OF ALASKA

PORT OF ALASKA MODERNIZATION PROGRAM
CARGO TERMINAL 1 DESIGN
ANCHORAGE, ALASKA

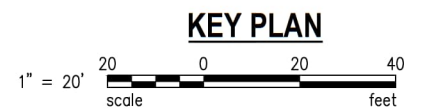
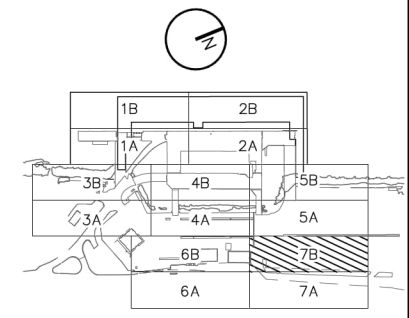
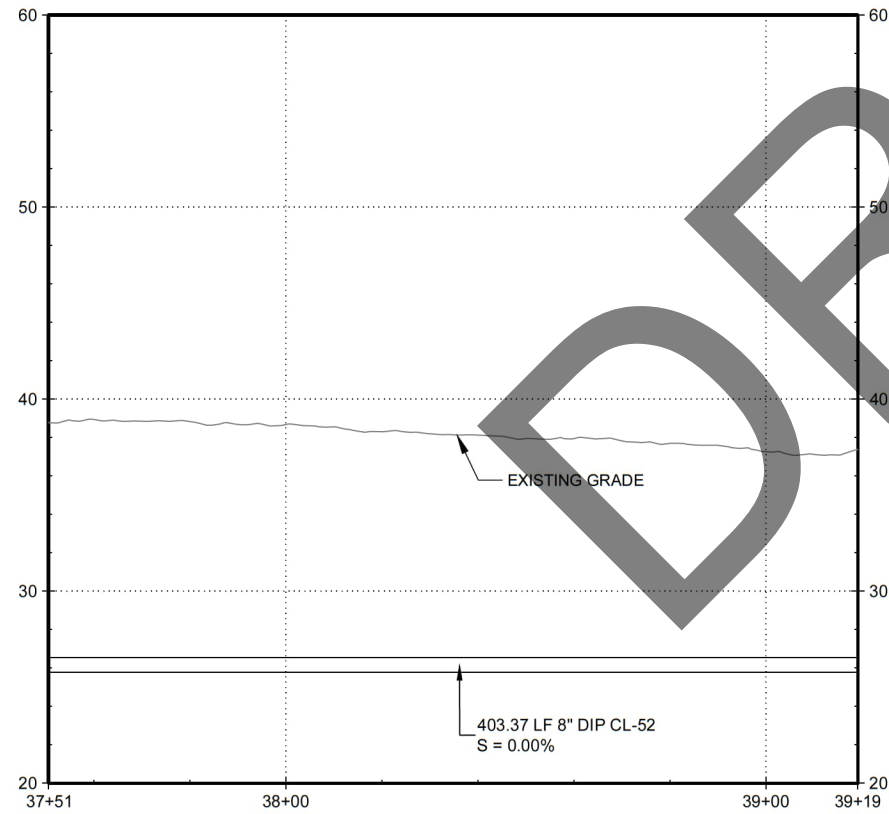
HORIZ SCALE: AS SHOWN	DATE: 11/14/23	T1-C-839
VERT SCALE: AS SHOWN	SHEET: # OF #	

PRELIMINARY. NOT FOR USE IN DEVELOPING CONSTRUCTION BIDS

MATCHLINE, SEE SHEET C-837



MATCHLINE, SEE SHEET C-839



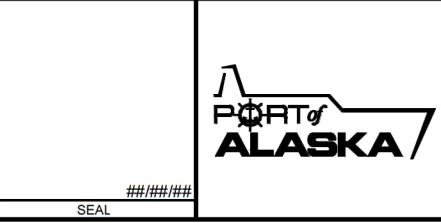
65% SUBMITTAL

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REV	DATE	DESCRIPTION	BY	APVD

VERIFY SCALES
 BAR IS ONE INCH ON ORIGINAL DRAWING
 0 1"
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

GHD-WSP JV 1400 W. BENSON BLVD, SUITE 400 ANCHORAGE, ALASKA 99503 AK ENGINEERING LICENSE # 197742(GHD) - AECC236(WSP) AK BUSINESS LICENSE # 2164152(GHD) - 1113511(WSP) DSGN DR CHK APVD CC CC ME ME CONSULTANT		
SEAL #####		



CIVIL
 UTILITIES - WHARF WATER PLAN & PROFILE

PORT OF ALASKA		
PORT OF ALASKA MODERNIZATION PROGRAM		
CARGO TERMINAL 1 DESIGN		
ANCHORAGE, ALASKA		
HORIZ SCALE: AS SHOWN	DATE: 11/14/23	T1-C-840
VERT SCALE: AS SHOWN	SHEET: # OF #	

PRELIMINARY. NOT FOR USE IN DEVELOPING CONSTRUCTION BIDS