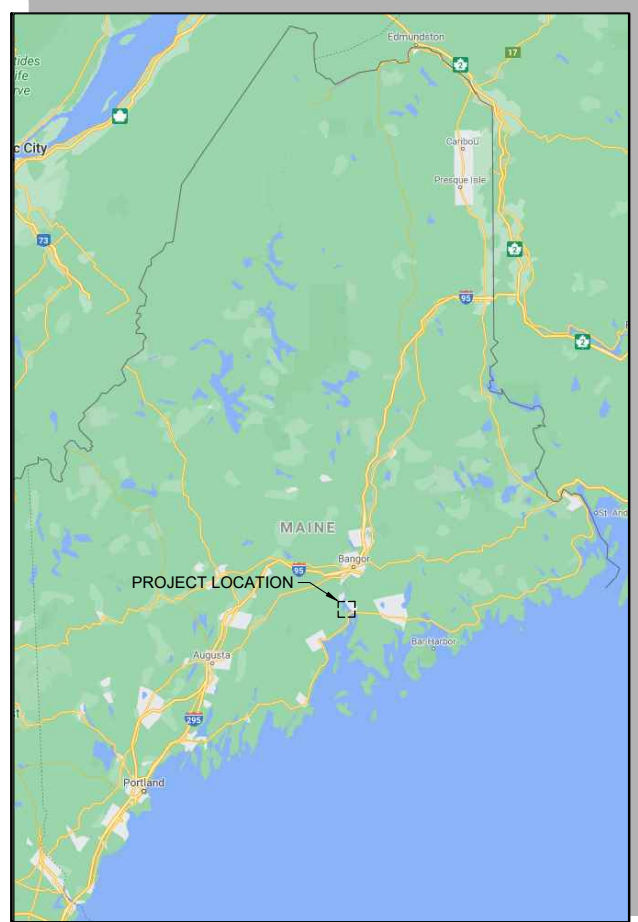


ATTACHMENT 7
DRAWINGS

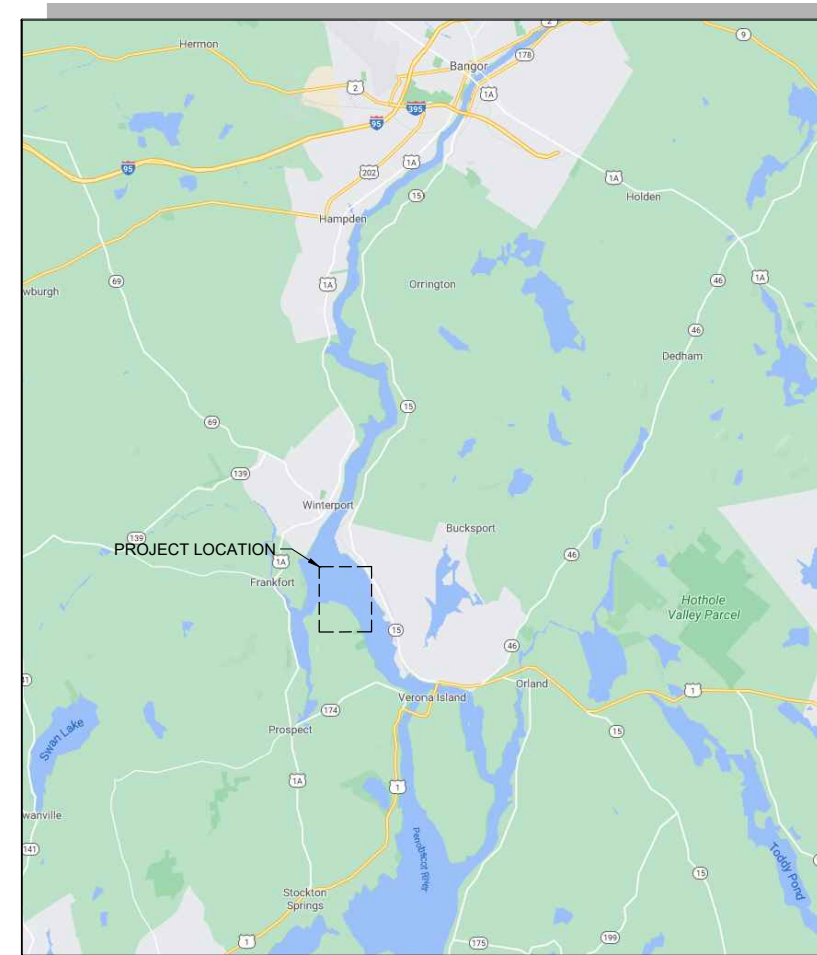
PROSPECT PIER

BOWDEN POINT TERMINAL DEVELOPMENT



VICINITY MAP
SCALE: NTS

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LOCATION PLAN
SCALE: NTS

Mark	Description	Date	Appr

PERMIT DRAWINGS FOR PROSPECT PIER

TITLE SHEET

<p>MOFFATT & NICHOL 101 W. MAIN ST. SUITE 3000 NORFOLK, VA 23510</p>	<p>SAUMONS, INC. 781 PRINCESS ANNE RD VIRGINIA BEACH, VA 23457</p>	<p>Date: 2/25/2021 MAN Project No. 11120-01</p>	<p>Designed by: MSM Dwn by: MSM Ckd by: SBU Reviewed by: SBU Submitted by: MOFFATT & NICHOL</p>	<p>Drawing code: Drawing Scale: Plot scale: 1" = 10 SHEET</p>
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ISSUED: 2021-04-20
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SEAL

Sheet Reference No. **G-001**
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DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING

GENERAL NOTES

- ALL FEDERAL, STATE, AND LOCAL SAFETY REGULATIONS ARE TO BE STRICTLY FOLLOWED.
- THE CONTRACTOR SHALL ABIDE BY ALL APPLICABLE FEDERAL, STATE, AND LOCAL ENVIRONMENTAL PROTECTION STANDARDS, LAWS AND REGULATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF THE CONSTRUCTION SITE AND THE AREAS OF WORK WHILE PERFORMING THE WORK OF THIS CONTRACT. CONSTRUCTION DEBRIS SHALL BE REMOVED FROM THE CONSTRUCTION SITE ON A DAILY BASIS. NO BURNING OF DEBRIS SHALL BE PERMITTED.
- DURING ALL PHASES OF THE WORK ALL PRECAUTIONS SHALL BE TAKEN AS NECESSARY OR AS REQUIRED TO PERMANENTLY PREVENT CONTAMINATED WATER, VEHICLE FLUIDS, CONSTRUCTION DEBRIS, AND ANY OTHER CONTAMINANT FROM ENTERING THE WATERWAY.
- CONTRACTOR SHALL INSTALL A FLOATING BOOM SYSTEM THAT FULLY ENCLOSES THE WORK AREA. THIS BOOM SHALL BE ANCHORED IN PLACE OR ATTACHED TO A FIXED STRUCTURE. THIS BOOM SHALL BE CAPABLE OF COLLECTING ANY FLOATING DEBRIS GENERATED DURING CONSTRUCTION ACTIVITIES. DEBRIS SHALL BE COLLECTED AND DISPOSED OF FROM THIS BOOM ON A DAILY BASIS.

TURBIDITY CURTAIN:

- A FLOATING TURBIDITY BARRIER MAY BE DEPLOYED AROUND AND/OR IMMEDIATELY ADJACENT TO ANY WORK AREA THAT IS EXPECTED TO PRODUCE DEBRIS AND/OR SEDIMENT IN 600 FOOT (MAX) LENGTHS. THE CONTRACTOR IS RESPONSIBLE FOR STAYING UNDER THE TURBIDITY LIMIT SET BY THE STATE. DURING ALL PHASES OF WORK, THE CONTRACTOR MAY PROPOSE AN ALTERNATIVE METHODOLOGY AND SUBMIT TO THE STATE FOR APPROVAL.
- TURBIDITY CURTAIN WILL BE AVAILABLE ON-SITE FOR USE AS WARRANTED BASED ON MONITORING OF TURBIDITY TO MAINTAIN COMPLIANCE WITH PERMIT CONDITIONS.

EROSION AND SEDIMENT CONTROL NOTES

GENERAL EROSION CONTROL NOTES

- SOIL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE IN CONFORMANCE WITH THE MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION "EROSION AND SEDIMENT CONTROL BMPs", LATEST REVISION.
- INSTALL ALL EROSION CONTROL MEASURES SHOWN, SPECIFIED OR REQUIRED BY THE ENGINEER PRIOR TO ANY CONSTRUCTION MEASURES UNTIL FINAL SURFACE TREATMENTS ARE IN PLACE AND/OR UNTIL ALL PERMANENT VEGETATION IS ESTABLISHED.
- MARK WORK LIMIT LINE(S) PRIOR TO STARTING WORK. DO NOT DISTURB VEGETATION OR TOPSOIL BEYOND THE PROPOSED LIMIT LINE. COORDINATE WITH THE ENGINEER FOR THE LOCATIONS FOR THE TEMPORARY STOCKPILING OF TOPSOIL DURING CONSTRUCTION.
- FINE GRADE AND IMMEDIATELY SEED ALL SIDE SLOPES, SHOULDER AREAS, AND DISTURBED VEGETATED AREAS. ALL GRADING TO BE A MAXIMUM SLOPE OF 2:1, COMPACTED, AND STABILIZED. SLOPES GREATER THAN 2:1 TO RECEIVE EROSION CONTROL BLANKET.
- REMOVE ALL SEDIMENT TRACKED ON PUBLIC RIGHT-OF-WAYS AT THE END OF EACH DAY.
- LAND DISTURBANCE SHALL BE KEPT TO A MINIMUM NECESSARY FOR CONSTRUCTION.
- ALL CATCH BASINS SHALL BE PROTECTED WITH SILT SACKS, HAY BALE RINGS, OR SILT FENCE THROUGHOUT THE CONSTRUCTION PERIOD AND UNTIL ALL DISTURBED AREAS ARE THOROUGHLY STABILIZED.
- WHENEVER POSSIBLE, EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO CONSTRUCTION, ADDITIONAL CONTROL MEASURES SHALL BE INSTALLED DURING CONSTRUCTION.
- THE CONTRACTOR SHALL USE APPROVED METHODS/MATERIALS FOR PREVENTING THE BLOWING AND MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES ONTO ADJACENT PROPERTIES AND SITE AREAS.
- MINIMIZING WIND EROSION AND CONTROLLING DUST WILL BE ACCOMPLISHED BY ONE OR MORE OF THE FOLLOWING METHODS:
 - COVERING 30% OR MORE OF THE SOIL SURFACE WITH NON-ERODIBLE MATERIAL.
 - ROUGHENING THE SOIL TO PRODUCE RIDGES PERPENDICULAR TO THE PREVAILING WIND.
 - FREQUENT WATERING OF EXCAVATION AND FILL AREAS.
- THE CONSTRUCTION ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACK OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1.3" OF STONE, AS CONDITIONS DEMAND. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY.

- CONTRACTOR SHALL INSPECT CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.
- EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE AS DIRECTED BY THE ON SITE INSPECTOR OR THE CIVIL ENGINEER.
- FAILURE TO INSTALL, OPERATE, OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE APPROVED EROSION CONTROL PLANS.
- THE SITE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTENANCE OF ALL EROSION CONTROL MEASURES INCLUDING REPLACING OR REPAIRING ANY DAMAGED DEVICES DUE TO ANY CONSTRUCTION ACTIVITY BY OTHERS.
- EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
- SEDIMENT AND EROSION CONTROL MEASURES SHOULD BE CHECKED AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.

INITIAL PHASE EROSION CONTROL NOTES

- PRIOR TO THE LAND DISTURBING CONSTRUCTION, THE CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE OWNER.
- A COPY OF THE APPROVED LAND DISTURBANCE PLAN SHALL BE PRESENT ON THE SITE AT ALL TIMES.
- THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND-DISTURBING ACTIVITIES.
- PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITY, THE LIMITS OF LAND DISTURBANCE SHALL BE CLEARLY AND ACCURATELY DEMARCATED WITH STAKES, RIBBONS, OR OTHER APPROPRIATE MEANS. THE LOCATION AND EXTENT OF ALL AUTHORIZED LAND DISTURBANCE ACTIVITY SHALL BE DEMARCATED FOR THE DURATION OF THE CONSTRUCTION ACTIVITY. NO LAND DISTURBANCE SHALL OCCUR OUTSIDE THE APPROVED LIMITS INDICATED ON THE APPROVED PLANS.
- PRIOR TO ANY OTHER CONSTRUCTION, A CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT EACH POINT OF ENTRY TO OR EXIT FROM THE SITE OR ONTO ANY PUBLIC ROADWAY.
- THE FOLLOWING INITIAL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY.
 - THE CONSTRUCTION ENTRANCE, CONSISTING OF A MINIMUM PAD SIZE OF 12 FT BY 50 FT WITH A MINIMUM OF 6" THICK STONE. THE STONE SIZE SHOULD CONSIST OF COURSE AGGREGATE BETWEEN 1-1/2" & 3-1/2" IN DIAMETER AND OVERLAID ON A GEOTEXTILE UNDERLINER. THE GEOTEXTILE UNDERLINER SHALL MEET THE REQUIREMENTS OF AASHTO M288-96, SECTION 7.3 SEPARATION REQUIREMENTS. (ROCK INSTALLATION TO COINCIDE WITH DEMOLITION)
 - IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION ENTRANCE, ALL PERIMETER EROSION CONTROL AND STORM WATER MANAGEMENT DEVICES SHALL BE INSTALLED AS SHOWN ON THE INITIAL EROSION CONTROL PLAN.
 - GEOTEXTILE SILT FENCE SHOULD BE INSTALLED AT THE PERIMETER OF THE DISTURBED AREA IF CONDITIONS WARRANT INSTALLATION OR SHOWN ON THE PLANS. THE GEOTEXTILE SILT FENCE SHOULD BE PLACED IN ACCORDANCE WITH THE CONNECTICUT EROSION & SEDIMENTATION CONTROL GUIDELINES. THE GEOTEXTILE SILT FENCE SHOULD BE KEPT ERECT AT ALL TIMES AND REPAIRED WHEN REQUESTED BY THE SITE INSPECTOR OR THE PROJECT DESIGN PROFESSIONAL OF RECORD. SILT SHOULD BE REMOVED WHEN ACCUMULATION REACHES 1/2 HEIGHT OF THE BARRIER. THE PERIMETER SILT FENCE SHOULD BE INSPECTED DAILY FOR ANY FAILURES. ANY FAILURES OF SAID FENCING SHOULD BE REPAIRED IMMEDIATELY.
- AFTER INSTALLATION OF INITIAL EROSION CONTROL MEASURES THE SITE CONTRACTOR SHALL SCHEDULE AN INSPECTION BY THE PROJECT RESIDENT ENGINEER. NO OTHER CONSTRUCTION ACTIVITIES SHALL OCCUR UNTIL THE PROJECT RESIDENT ENGINEER APPROVES THE INSTALLATION OF SAID EROSION CONTROL MEASURES. IF UNFORESEEN CONDITIONS EXIST IN THE FIELD THAT WARRANT ADDITIONAL EROSION CONTROL MEASURES, THE CONTRACTOR MUST CONSTRUCT ANY ADDITIONAL EROSION CONTROL DEVICES DEEMED NECESSARY BY THE SITE INSPECTION.
- AFTER APPROVAL OF THE INITIAL EROSION CONTROL INSTALLATION, THE CONTRACTOR MAY PROCEED WITH CONSTRUCTION, CLEARING AND GRUBBING ACTIVITIES.
- NO BURN OR BURY PITS SHALL BE PERMITTED ON THE CONSTRUCTION SITE.

GRADING AND FINAL PHASE EROSION CONTROL NOTES

- DURING CONSTRUCTION, THE CONTRACTOR SHALL MAINTAIN CAREFUL SCHEDULING AND PERFORMANCE TO ENSURE THAT LAND STRIPPED OF ITS NATURAL GROUND COVER IS EXPOSED ONLY IN SMALL QUANTITIES AND THEREFORE LIMITED DURATIONS, BEFORE PERMANENT EROSION PROTECTION IS ESTABLISHED.
- EROSION CONTROL DEVICES SHALL BE INSTALLED IMMEDIATELY AFTER GROUND DISTURBANCE OCCURS. THE LOCATION OF SOME OF THE EROSION CONTROL DEVICES MAY HAVE TO BE ALTERED FROM THAT SHOWN ON THE APPROVED PLANS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE PROPOSED DRAINAGE PATTERNS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH EROSION CONTROL FOR ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES DURING CONSTRUCTION. ANY DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE DESIGN PROFESSIONAL IMMEDIATELY.
- CUT AND FILL SLOPES ARE TO BE AS SHOWN ON PLAN BUT SHALL NOT EXCEED "2H:1V"
- UPON COMPLETION OF THE PROJECT AND RECEIPT OF CERTIFICATE OF OCCUPANCY, THE CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL MEASURES AND DISPOSE OF THEM UNLESS NOTED ON PLANS.

Mark	Description	Date	Age

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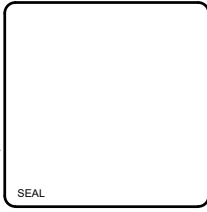
GENERAL NOTES - SHEET 1 OF 2

Date: 2/25/2021 M&N Project No: 11120-01 Drawing code:	Rev: --- Drawing Scale: 1" = 10' (0 SHEET) Plot scale: 1" = 10' (0 SHEET)
Designed by: MSM Dwn by: MSM Ckd by: SBJ	Submitted by: MOFFATT & NICHOL Drawing Scale: 1" = 10' (0 SHEET)



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VIRGINIA BEACH, VA 23457



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Sheet Reference No.
G-002
INDEX: 2 OF 20

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EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN (ESPC)

EROSION AND SEDIMENT CONTROLS

- ALL PERIMETER GEOTEXTILE SILT FENCES AND CONSTRUCTION EXITS SHALL BE IN PLACE PRIOR TO ANY LAND DISTURBING ACTIVITIES.
- WHEN CONSTRUCTION ACTIVITIES HAVE CEASED IN AN AREA, THAT AREA SHALL BE STABILIZED WITHIN 14 DAYS.

OTHER CONTROLS

- NO WASTE WILL BE DISPOSED OF INTO STORMWATER INLETS OR WATERS OF THE STATE.

WASTE MATERIALS

- ALL WASTE MATERIALS WILL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL SOLID WASTE MANAGEMENT REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN THE DUMPSTER. THE DUMPSTER WILL BE EMPTIED A MINIMUM OF ONCE PER WEEK OR MORE OFTEN IF NECESSARY AND TRASH WILL BE HAULED AS REQUIRED BY LOCAL REGULATIONS. NO CONSTRUCTION WASTE WILL BE BURIED ON-SITE.
- ALL PERSONNEL WILL BE INSTRUCTED ON PROPER PROCEDURES FOR WASTE DISPOSAL. A NOTICE STATING THESE PRACTICES WILL BE POSTED AT THE JOBSITE AND THE CONTRACTOR WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.

HAZARDOUS WASTE

- ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL STATE, AND/OR FEDERAL REGULATIONS AND BY THE MANUFACTURER OF SUCH PRODUCTS. THE JOB SITE SUPERINTENDENT, WHO WILL ALSO BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED, WILL INSTRUCT SITE PERSONNEL IN THESE PRACTICES. MATERIAL SAFETY DATA SHEETS (MSDS'S) FOR EACH SUBSTANCE WITH HAZARDOUS PROPERTIES THAT IS USED ON THE JOB SITE WILL BE OBTAINED AND USED FOR THE PROPER MANAGEMENT OF POTENTIAL WASTES THAT MAY RESULT FROM THESE PRODUCTS. AN MSDS WILL BE POSTED IN THE IMMEDIATE AREA WHERE SUCH PRODUCT IS STORED AND/OR USED AND ANOTHER COPY OF EACH MSDS WILL BE MAINTAINED IN THE ESPCP FILE AT THE JOB SITE CONSTRUCTION TRAILER OFFICE. EACH EMPLOYEE WHO MUST HANDLE A SUBSTANCE WITH HAZARDOUS PROPERTIES WILL BE INSTRUCTED ON THE USE OF MSDS SHEETS AND THE SPECIFIC INFORMATION IN THE APPLICABLE MSDS FOR THE PRODUCT HE/SHE IS USING, PARTICULARLY REGARDING SPILL CONTROL TECHNIQUES.
- THE CONTRACTOR WILL IMPLEMENT THE SPILL PREVENTION CONTROL AND COUNTERMEASURES (SPCC) PLAN FOUND WITHIN THE ESPCP AND WILL TRAIN ALL PERSONNEL IN THE PROPER CLEANUP AND HANDLING OF SPILLED MATERIALS. NO SPILLED HAZARDOUS MATERIALS OR HAZARDOUS WASTES WILL BE ALLOWED TO COME IN CONTACT WITH STORMWATER DISCHARGES. IF SUCH CONTACT OCCURS, THE STORMWATER DISCHARGE WILL BE CONTAINED ON SITE UNTIL APPROPRIATE MEASURES IN COMPLIANCE WITH STATE AND FEDERAL REGULATIONS ARE TAKEN TO DISPOSE OF SUCH CONTAMINATED STORMWATER. IT SHALL BE THE RESPONSIBILITY OF THE JOB SITE SUPERINTENDENT TO PROPERLY TRAIN ALL PERSONNEL IN THE USE OF THE SPCC PLAN.

SANITARY WASTES

- A MINIMUM OF ONE PORTABLE SANITARY UNIT WILL BE PROVIDED FOR EVERY TEN (10) WORKERS ON THE SITE. ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE SANITARY UNITS A MINIMUM OF ONE TIME PER WEEK BY A LICENSED PORTABLE FACILITY PROVIDER IN COMPLETE COMPLIANCE WITH LOCAL AND STATE REGULATIONS.
- ALL SANITARY WASTE UNITS WILL BE LOCATED IN AN AREA WHERE THE LIKELIHOOD OF THE UNIT CONTRIBUTING TO STORMWATER DISCHARGE IS NEGLIGIBLE. ADDITIONAL CONTAINMENT BMPs MUST BE IMPLEMENTED, SUCH AS GRAVEL BAGS OR SPECIALLY DESIGNED PLASTIC SKID CONTAINERS AROUND THE BASE, TO PREVENT WASTES FROM CONTRIBUTING TO STORMWATER DISCHARGES. THE LOCATION OF THE SANITARY WASTES UNITS MUST BE IDENTIFIED ON THE EROSION CONTROL PLAN GRADING PHASE BY THE CONTRACTOR ONCE THE LOCATIONS HAVE BEEN DETERMINED.

OFFSITE VEHICLE TRACKING

- A STABILIZED CONSTRUCTION ENTRANCE IS TO BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENT. SEE SHEET 4 FOR CONSTRUCTION ENTRANCE DETAILS. THE PAVED STREET ADJACENT TO THE SITE EXIT WILL BE INSPECTED DAILY FOR TRACKING OF MUD, DIRT OR ROCK. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARPULIN.

INVENTORY FOR POLLUTION PREVENTION PLAN

- THE FOLLOWING MATERIALS ARE EXPECTED ON-SITE DURING CONSTRUCTION: CONCRETE PRODUCTS, ASPHALT, PETROLEUM BASED FUELS AND LUBRICANTS FOR EQUIPMENT, TAR, METAL REINFORCING, PAINTS/FINISHES, PAINT SOLVENTS, LUMBER, CRUSHED STONE, PLASTIC, METAL, AND CONCRETE PIPES.

SPILL PREVENTION

- PRACTICES SUCH AS GOOD HOUSEKEEPING, PROPER HANDLING OF HAZARDOUS PRODUCTS AND PROPER SPILL CONTROL PRACTICES WILL BE FOLLOWED TO REDUCE THE RISK OF SPILLS AND SPILLS FROM DISCHARGING INTO STORMWATER RUNOFF.

GOOD HOUSEKEEPING

- QUANTITIES OF PRODUCTS STORED ON-SITE WILL BE LIMITED TO THE AMOUNT NEEDED FOR THE JOB.

- PRODUCTS AND MATERIALS WILL BE STORED IN A NEAT, ORDERLY MANNER IN APPROPRIATE CONTAINERS PROTECTED FROM RAINFALL, WHERE POSSIBLE.
- PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH MANUFACTURER LABELS LEGIBLE AND VISIBLE.
- PRODUCTS MIXING, DISPOSAL AND DISPOSAL OF PRODUCT CONTAINERS WILL BE ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.
- THE CONTRACTOR WILL INSPECT SUCH MATERIALS TO ENSURE PROPER USE, STORAGE AND DISPOSAL.

PRODUCT SPECIFIC PRACTICES

- PETROLEUM BASED PRODUCTS - CONTAINERS FOR PRODUCTS SUCH AS FUELS, LUBRICANTS AND TARS WILL BE INSPECTED DAILY FOR LEAKS AND SPILLS. THIS INCLUDES ON-SITE VEHICLE AND MACHINERY DAILY INSPECTION AND REGULAR PREVENTIVE MAINTENANCE OF SUCH EQUIPMENT. EQUIPMENT MAINTENANCE AREAS WILL BE LOCATED AWAY FROM STATE WATER, NATURAL DRAINS AND STORMWATER DRAINAGE INLETS. IN ADDITION, TEMPORARY FUELING TANKS SHALL HAVE A SECONDARY CONTAINMENT LINER TO PREVENT/MINIMIZE SITE CONTAMINATION. DISCHARGE OF OILS, FUELS AND LUBRICANTS IS PROHIBITED. PROPER DISPOSAL METHODS WILL INCLUDE COLLECTION IN A SUITABLE CONTAINER AND DISPOSAL AS REQUIRED BY LOCAL AND STATE REGULATIONS.**
- PAINTS/FINISHES/SOLVENTS - ALL PRODUCTS WILL BE STORED IN TIGHTLY SEALED ORIGINAL CONTAINERS WHEN NOT IN USE. EXCESS PRODUCT WILL NOT BE DISCHARGED TO THE STORMWATER COLLECTION SYSTEM. EXCESS PRODUCT, MATERIALS USED WITH THESE PRODUCTS AND PRODUCT CONTAINERS WILL BE DISPOSED OF ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.**
- CONCRETE TRUCK WASHING - NO CONCRETE TRUCKS WILL BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ON THE OWNER'S PROPERTY.**
- FERTILIZER/HERBICIDES - THESE PRODUCTS WILL BE APPLIED AT RATES THAT DO NOT EXCEED THAT MANUFACTURER'S SPECIFICATIONS OR ABOVE THE GUIDELINES SET FORTH IN THE CROP .**
- BUILDING MATERIALS/FORMWORK - NO BUILDING OR CONSTRUCTION MATERIALS WILL BE BURIED OR DISPOSED OF ON-SITE. ALL SUCH MATERIAL WILL BE DISPOSED OF IN PROPER WASTE DISPOSAL PROCEDURES.**

SPILL CLEANUP AND CONTROL PRACTICES

- LOCAL, STATE AND MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND PROCEDURES WILL BE MADE AVAILABLE TO SITE PERSONNEL.
- MATERIAL AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREAS. TYPICAL MATERIALS AND EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO, BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOGGLES, CAT LITTER, SAND, SAWDUST AND PROPERLY LABELED PLASTIC AND METAL WASTE CONTAINERS.
- SPILL PREVENTION PRACTICES AND PROCEDURES WILL BE REVIEWED AFTER A SPILL AND ADJUSTED AS NECESSARY TO PREVENT FUTURE SPILLS.
- ALL SPILLS WILL BE CLEANED UP IMMEDIATELY UPON DISCOVERY. ALL SPILLS WILL BE REPORTS AS REQUIRED BY LOCAL, STAT, AND FEDERAL REGULATIONS.
- FOR SPILLS THAT IMPACT SURFACE WATER (LEAVE A SHEEN ON SURFACE WATER), THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-426-2675.
- FOR SPILLS OF UNKNOWN AMOUNT, THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-426-2675.
- FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE SPILL WILL BE CLEANED UP AND LOCAL AGENCIES WILL BE CONTACTED AS REQUIRED.

INSPECTIONS

- EACH DAY WHEN ANY TYPE OF CONSTRUCTION ACTIVITY HAS TAKEN PLACE AT THE CONTRACTOR'S SITE, QUALIFIED PERSONNEL PROVIDED BY THE CONTRACTOR SHALL INSPECT: (A) ALL AREAS AT THE CONTRACTOR'S SITE WHERE PETROLEUM PRODUCTS ARE STORED, USED, OR HANDLED FOR SPILLS AND LEAKS FROM VEHICLES AND EQUIPMENT; (B) ALL LOCATIONS AT THE CONTRACTOR'S SITE WHERE VEHICLES ENTER OF EXIT THE SITE FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING; AND (C) MEASURE RAINFALL ONCE EACH TWENTY-FOUR HOUR PERIOD AT THE SITE. THESE INSPECTIONS MUST BE CONDUCTED UNTIL PROJECT COMPLETION.
- QUALIFIED PERSONNEL (PROVIDED BY THE CONTRACTOR) SHALL INSPECT AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES OR GREATER THE FOLLOWING: (A) DISTURBED AREAS OF THE CONTRACTOR'S CONSTRUCTION SITE THAT HAVE NOT UNDERGONE FINAL STABILIZATION; (B) AREAS USED BY THE CONTRACTOR FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION THAT HAVE NOT UNDERGONE FINAL STABILIZATION; AND (C) STRUCTURAL CONTROL MEASURES. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN APPLICABLE TO THE CONTRACTOR'S SITE SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S).
- QUALIFIED PERSONNEL (PROVIDED BY THE CONTRACTOR) SHALL INSPECT AT LEAST ONCE PER MONTH UNTIL PROJECT COMPLETION THE AREAS OF THE SITE THAT HAVE UNDERGONE FINAL STABILIZATION. THESE AREAS SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING

THE DRAINAGE SYSTEM AND THE RECEIVING WATER(S). EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S).

- BASED ON THE RESULTS OF EACH INSPECTION, THE SITE DESCRIPTION AND THE POLLUTION PREVENTION AND CONTROL MEASURES IDENTIFIED IN THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, THE PLAN SHALL BE REVISED AS APPROPRIATE NOT LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION. IMPLEMENTATION OF SUCH CHANGES SHALL BE MADE AS SOON AS PRACTICAL BUT IN NO CASE LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION.
- A REPORT SUMMARIZING THE SCOPE OF EACH INSPECTION AND THE NAME(S) OF PERSONNEL MAKING EACH INSPECTION, THE DATE(S) OF EACH INSPECTION, MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN AND ACTIONS TAKEN SHALL BE MADE AND RETAINED AT THE SITE OR BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION UNTIL THE ENTIRE SITE OR THAT PORTION OF A CONSTRUCTION PROJECT THAT HAS BEEN PHASED HAS UNDERGONE FINAL STABILIZATION. SUCH REPORTS SHALL IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE. WHERE THE REPORT DOES NOT IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE, THE REPORT SHALL CONTAIN A CERTIFICATION THAT THE FACILITY IS IN COMPLIANCE WITH THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN.

COFFERDAM IMPACT AREA		
COFFERDAM AREA (SF)	NUMBER OF COFFERDAMS	TOTAL IMPACT AREA (SF)
2,000	12	24,000

COFFERDAM CONNECTORS IMPACT AREA	
COFFERDAM CONNECTOR AREA (SF)	
1,700	

FILL QUANTITY ESTIMATE		
LOCATION	FOOTPRINT (SF)	FILL VOLUME (CY)
UPLAND FILL	30,000	10,000
RIPRAP	800	350

PROJECT VERTICAL DATUM	
WINTERPORT, MAINE STATION ID 8414781	ELEVATIONS (NAVD88)
100 YEAR BASE FLOOD	+14.0
HIGHEST ASTRONOMICAL	+9.06
MHHW	+6.73
MHW	+6.28
NAVD88	0.00
MLW	-5.48
MLLW	-5.83

Mark	Description	Date	Asst

PERMIT DRAWINGS FOR PROSPECT PIER

GENERAL NOTES - SHEET 2 OF 2

Designed by:	MSM	Drawn by:	MSM	Reviewed by:	SBJ	Submitted by:	MOFFATT & NICHOL
Date:	2/25/2021	Dwn by:	SBJ	Reviewed by:	MSM	Submitted by:	MOFFATT & NICHOL
Rev:	REVNO	Dwn by:	SBJ	Reviewed by:	MSM	Submitted by:	MOFFATT & NICHOL
Rev:	REVNO	Dwn by:	SBJ	Reviewed by:	MSM	Submitted by:	MOFFATT & NICHOL
MAN Project No:	11120-01	Dwn by:	SBJ	Reviewed by:	MSM	Submitted by:	MOFFATT & NICHOL
Drawing code:		Dwn by:	SBJ	Reviewed by:	MSM	Submitted by:	MOFFATT & NICHOL
Drawing Scale:	1:1 (0 SHEET)	Dwn by:	SBJ	Reviewed by:	MSM	Submitted by:	MOFFATT & NICHOL
Per scale:		Dwn by:	SBJ	Reviewed by:	MSM	Submitted by:	MOFFATT & NICHOL

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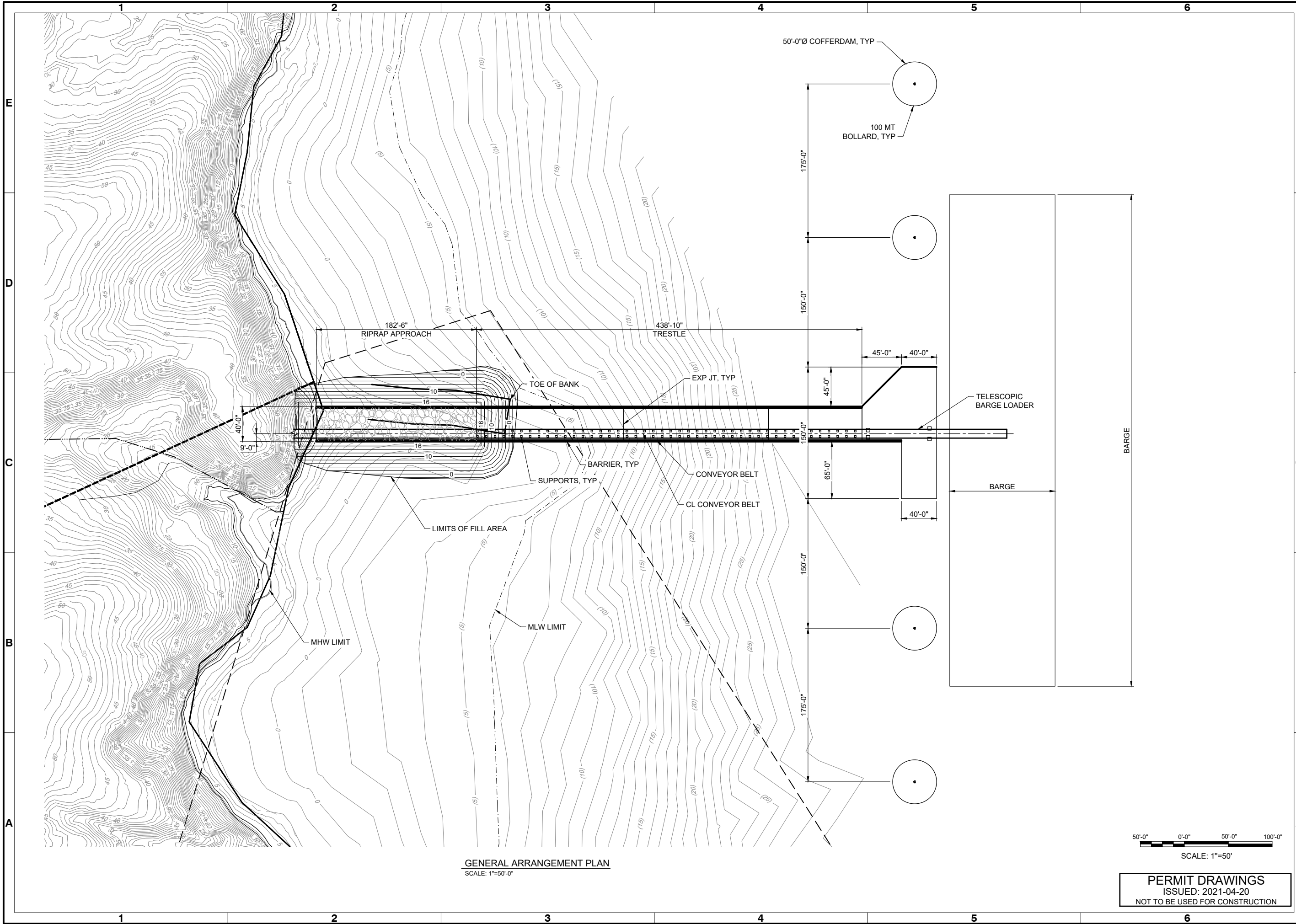
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SEAL

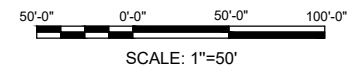
Sheet Reference No.
G-003

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PERMIT DRAWINGS
ISSUED: 2021-04-20
NOT TO BE USED FOR CONSTRUCTION



GENERAL ARRANGEMENT PLAN
SCALE: 1"=50'-0"



PERMIT DRAWINGS
ISSUED: 2021-04-20
NOT TO BE USED FOR CONSTRUCTION

Mark	Description	Date	Appr.

PERMIT DRAWINGS FOR PROSPECT PIER
GENERAL ARRANGEMENT PLAN

Rev.	Date	By	Check	Submitted
1	2/25/2021	MSM	SBJ	MSM

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SEAL

Sheet Reference No.
G-101
INDEX: 4 OF 20

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SEDIMENT FENCE (Sd1)

DEFINITION

A TEMPORARY SEDIMENT BARRIER CONSISTING OF A FILTER FABRIC STRETCHED ACROSS AND ATTACHED TO SUPPORTING POSTS AND ENTRENCHED. THE SEDIMENT FENCE IS CONSTRUCTED OF STAKES AND SYNTHETIC FILTER FABRIC WITH A RIGID WIRE FENCE BACKING WHERE NECESSARY FOR SUPPORT. SEDIMENT FENCE CAN BE PURCHASED WITH POCKETS PRESEWN TO ACCEPT USE OF STEEL FENCE POSTS.

PURPOSE

A SEDIMENT FENCE INTERCEPTS AND DETAINS SMALL AMOUNTS OF SEDIMENT FROM DISTURBED AREAS DURING CONSTRUCTION OPERATIONS AND REDUCES RUNOFF VELOCITY DOWN A SLOPE. SEDIMENT FENCES MAY ALSO BE USED TO CATCH WIND-BLOWN SAND AND TO CREATE AN ANCHOR FOR SAND DUNE CREATION.

DESIGN RECOMMENDATIONS

DEPTH OF IMPOUNDED WATER SHOULD NOT EXCEED 1.5 FEET AT ANY POINT ALONG THE FENCE. DRAINAGE AREA LIMITED TO 1/4 ACRE PER 100 FT OF FENCE, AND NO MORE THAN 1.5 ACRES IN TOTAL. OR IN COMBINATION WITH A SEDIMENT BASIN ON A LARGER SITE. AREA IS FURTHER RESTRICTED BY SLOPE STEEPNESS AS SHOWN IN THE FOLLOWING TABLE.

MAXIMUM SLOPE	
LAND SLOPE (%)	DISTANCE ABOVE FENCE (FEET)
2	250
5	180
10	100
20	50
30	30

MATERIALS AND USE

FILTER FABRIC
THE FILTER FABRIC USED IN A SEDIMENT FENCE MUST HAVE SUFFICIENT STRENGTH TO WITHSTAND VARIOUS STRESS CONDITIONS. IT ALSO MUST HAVE THE ABILITY TO ALLOW PASSAGE OF WATER WHILE RETAINING SOIL PARTICLES. FILTER FABRIC FOR A SEDIMENT FENCE IS AVAILABLE COMMERCIALY.

SUPPORT POSTS
FOUR-INCH DIAMETER PINE, 1.33 LB./LINEAR FT. STEEL, OR SOUND QUALITY HARDWOOD WITH A MINIMUM CROSS SECTIONAL AREA OF 3.0 SQUARE INCHES. STEEL POSTS SHOULD HAVE PROJECTIONS FOR FASTENING FABRIC. DRIVE POSTS SECURELY, AT LEAST 16 INCHES INTO THE GROUND, ON THE DOWNSLOPE SIDE OF THE TRENCH. SPACE POSTS A MAXIMUM OF 8 FEET IF FENCE IS SUPPORTED BY WIRE, 6 FEET IF EXTRA-STRENGTH FABRIC IS USED WITHOUT SUPPORT WIRE. ADJUST SPACING TO PLACE POSTS AT LOW POINTS ALONG THE FENCE LINE.

SUPPORT WIRE
WIRE FENCE (14 GAUGE WITH 6-INCH MESH) IS REQUIRED TO SUPPORT STANDARD STRENGTH FABRIC.

REINFORCED, STABILIZED OUTLETS
ANY OUTLET WHERE STORM FLOW BYPASS OCCURS MUST BE STABILIZED AGAINST EROSION. SET OUTLET ELEVATION SO THAT WATER DEPTH CANNOT EXCEED 1.5 FEET AT THE LOWEST POINT ALONG THE FENCE LINE.

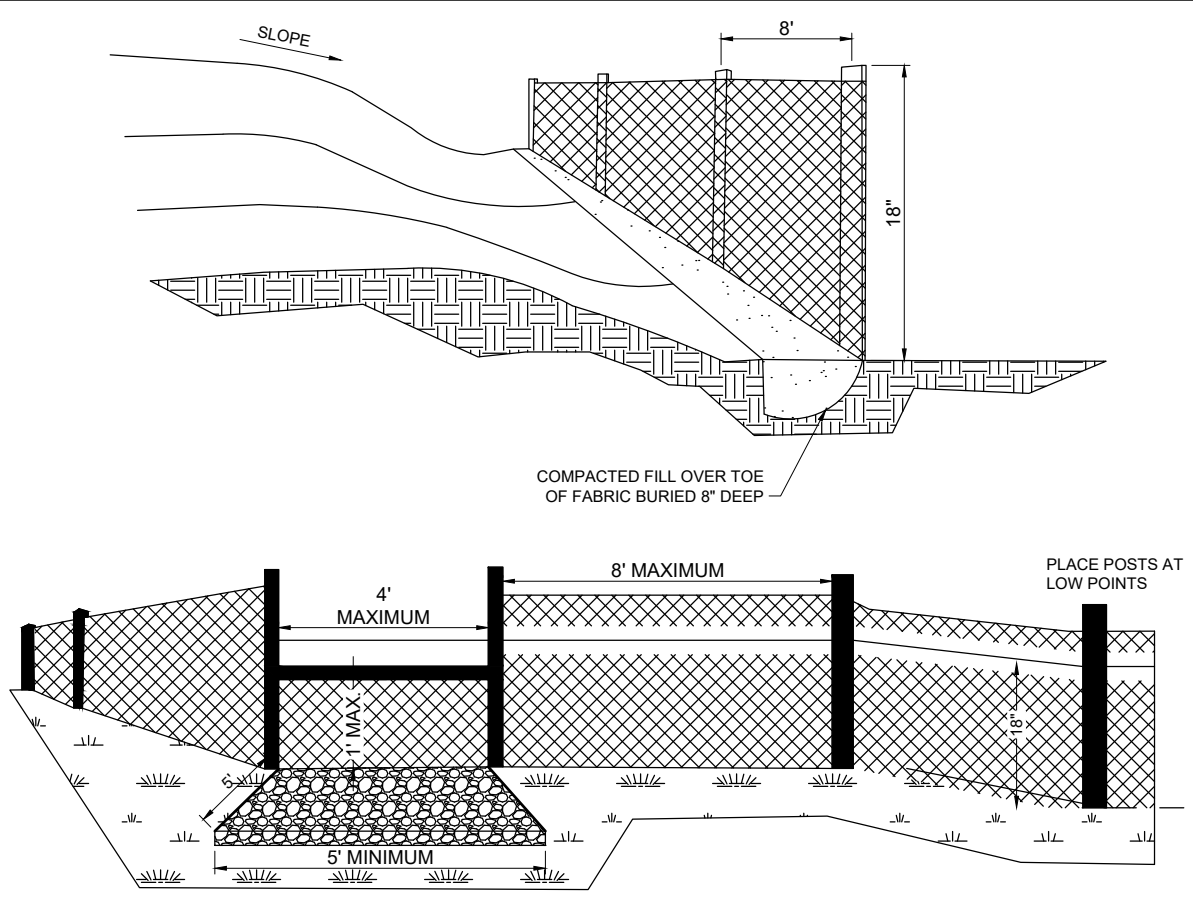
SET FABRIC HEIGHT AT 1 FOOT MAXIMUM BETWEEN SUPPORT POSTS SPACED NO MORE THAN 4 FEET APART. INSTALL A HORIZONTAL BRACE BETWEEN THE SUPPORT POSTS TO SERVE AS AN OVERFLOW WEIR AND TO SUPPORT TOP OF FABRIC. PROVIDE A RIPRAP SPLASH PAD A MINIMUM 5 FEET WIDE, 1 FOOT DEEP, AND 5 FEET LONG ON LEVEL GRADE. THE FINISHED SURFACE OF THE RIPRAP SHOULD BLEND WITH SURROUNDING AREA, ALLOWING NO OVERFALL. THE AREA AROUND THE PAD MUST BE STABLE.

CONSTRUCTION RECOMMENDATIONS

DIG A TRENCH APPROXIMATELY 8 INCHES DEEP AND 4 INCHES WIDE, OR A V-TRENCH; ALONG THE LINE OF THE FENCE, UPSLOPE SIDE. FASTEN SUPPORT WIRE FENCE SECURELY TO THE UPSLOPE SIDE OF FENCE POSTS WITH WIRE TIES OR STAPLES. WIRE SHOULD EXTEND 6 INCHES INTO THE TRENCH. ATTACH CONTINUOUS LENGTH OF FABRIC TO UPSLOPE SIDE OF FENCE POSTS. AVOID JOINTS, PARTICULARLY AT LOW POINTS IN THE FENCE LINE. WHERE JOINTS ARE NECESSARY, FASTEN FABRIC SECURELY TO SUPPORT POSTS AND OVERLAP TO THE NEXT POST. PLACE THE BOTTOM ONE FOOT OF FABRIC IN THE TRENCH. BACKFILL WITH COMPACTED EARTH OR GRAVEL. FILTER CLOTH SHALL BE FASTENED SECURELY TO THE WOVEN WIRE FENCE WITH TIES SPACED EVERY 24 INCHES AT THE TOP, MID-SECTION, AND BOTTOM. TO REDUCE MAINTENANCE, A SHALLOW SEDIMENT STORAGE AREA MAY BE EXCAVATED ON THE UPSLOPE SIDE OF FENCE WHERE SEDIMENTATION IS EXPECTED. PROVIDE GOOD ACCESS TO DEPOSITION AREAS FOR CLEANOUT AND MAINTENANCE. SEDIMENT FENCES SHOULD BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED. RETAINED SEDIMENT MUST BE REMOVED AND PROPERLY DISPOSED OF, OR MULCHED AND SEEDED.

MAINTENANCE

A SEDIMENT FENCE REQUIRES A GREAT DEAL OF MAINTENANCE. SILT FENCES SHOULD BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. REPAIR AS NECESSARY. REMOVE SEDIMENT DEPOSITS PROMPTLY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON FENCE. TAKE CARE TO AVOID UNDERMINING FENCE DURING CLEANOUT. IF THE FABRIC TEARS, DECOMPOSES, OR IN ANY WAY BECOMES INEFFECTIVE, REPLACE IT IMMEDIATELY. REPLACE BURLAP USED IN SEDIMENT FENCES AFTER NO MORE THAN 60 DAYS. REMOVE ALL FENCING MATERIALS AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED. SEDIMENT DEPOSITS REMAINING AFTER THE FABRIC HAS BEEN REMOVED SHOULD BE GRADED TO CONFORM WITH THE EXISTING TOPOGRAPHY AND VEGETATED.



CONSTRUCTION ENTRANCE (Co)

DEFINITION

A TEMPORARY STONE-STABILIZED PAD LOCATED AT POINTS OF VEHICULAR INGRESS AND EGRESS ON A CONSTRUCTION SITE.

PURPOSE

TO PROVIDE A STABLE ENTRANCE AND EXIT FROM A CONSTRUCTION SITE AND KEEP MUD AND SEDIMENT OFF PUBLIC ROADS.

DESIGN RECOMMENDATIONS

REMOVE ALL VEGETATION AND OTHER OBJECTIONABLE MATERIAL FROM THE FOUNDATION AREA. GRADE AND CROWN FOUNDATION FOR POSITIVE DRAINAGE. STONE FOR A STABILIZED CONSTRUCTION ENTRANCE SHALL BE 1 TO 3-INCH STONE, RECLAIMED STONE, OR RECYCLED CONCRETE EQUIVALENT PLACED ON A STABLE FOUNDATION AS SPECIFIED IN THE PLAN. PAD DIMENSIONS: THE MINIMUM LENGTH OF THE GRAVEL PAD SHOULD BE 50 FEET, EXCEPT FOR A SINGLE RESIDENTIAL LOT WHERE A 30 FOOT MINIMUM LENGTH MAY BE USED. LONGER

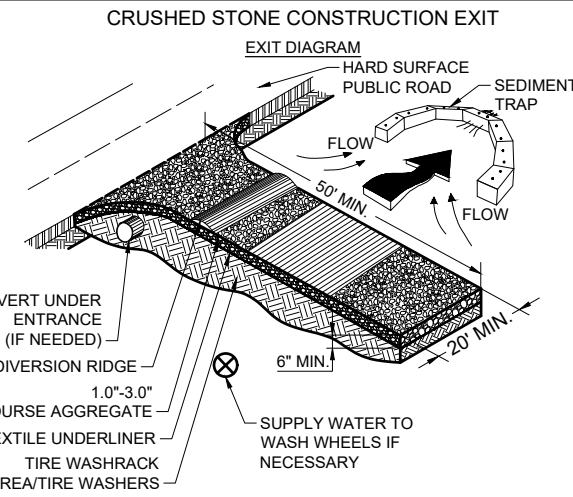
ENTRANCES WILL PROVIDE BETTER CLEANING ACTION. THE PAD SHOULD EXTEND THE FULL WIDTH OF THE CONSTRUCTION ACCESS ROAD OR 10 FEET WHICHEVER IS GREATER. THE AGGREGATE SHOULD BE PLACED AT LEAST SIX INCHES THICK. A GEOTEXTILE FILTER FABRIC SHALL BE PLACED BETWEEN THE STONE FILL AND THE EARTH SURFACE BELOW THE PAD TO REDUCE THE MIGRATION OF SOIL PARTICLES FROM THE UNDERLYING SOIL INTO THE STONE AND VICE VERSA. FILTER CLOTH IS NOT REQUIRED FOR A SINGLE FAMILY RESIDENCE LOT. IF THE SLOPE TOWARD THE ROAD EXCEEDS 2%, CONSTRUCT A RIDGE, 6 TO 8 INCHES HIGH WITH 3:1 SIDE SLOPES, ACROSS THE FOUNDATION APPROXIMATELY 15 FT FROM THE ENTRANCE TO DIVERT RUNOFF AWAY FROM THE PUBLIC ROAD. ALL SURFACE WATER THAT IS FLOWING TO OR DIVERTED TOWARD THE CONSTRUCTION ENTRANCE SHOULD BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A BERM WITH 5:1 SLOPES THAT CAN BE CROSSED BY VEHICLES MAY BE SUBSTITUTED FOR THE PIPE. WASHING: IF THE SITE CONDITIONS ARE SUCH THAT THE MAJORITY OF MUD IS NOT REMOVED FROM THE VEHICLE TIRES BY THE GRAVEL PAD,

THEN THE TIRES SHOULD BE WASHED BEFORE THE VEHICLE ENTERS THE ROAD OR STREET. THE WASH AREA SHOULD BE A LEVEL AREA WITH 3-INCH WASHED STONE MINIMUM, OR A COMMERCIAL RACK. WASH WATER SHOULD BE DIRECTED INTO A SEDIMENT TRAP, A VEGETATED FILTER STRIP, OR OTHER APPROVED SEDIMENT TRAPPING DEVICE. SEDIMENT SHOULD BE PREVENTED FROM ENTERING ANY WATERCOURSES. A FILTER FABRIC FENCE SHOULD BE INSTALLED DOWN-GRADIENT FROM THE CONSTRUCTION ENTRANCE IN ORDER TO CONTAIN ANY SEDIMENT-LADEN RUNOFF FROM THE ENTRANCE.

MAINTENANCE

THE ENTRANCE SHOULD BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOPDRESSING WITH ADDITIONAL STONE. INSPECT ENTRANCE/EXIT PAD AND SEDIMENT DISPOSAL AREA WEEKLY AND AFTER HEAVY RAINS OR HEAVY USE. REMOVE MUD AND SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROAD IMMEDIATELY. MUD AND SOIL PARTICLES WILL EVENTUALLY CLOG THE VOIDS

IN THE GRAVEL AND THE EFFECTIVENESS OF THE GRAVEL PAD WILL NOT BE SATISFACTORY. WHEN THIS OCCURS, THE PAD SHOULD BE TOP-DRESSED WITH NEW STONE. COMPLETE REPLACEMENT OF THE PAD MAY BE NECESSARY WHEN THE PAD BECOMES COMPLETELY CLOGGED. IF WASHING FACILITIES ARE USED, THE SEDIMENT TRAPS SHOULD BE CLEANED OUT AS OFTEN AS NECESSARY TO ASSURE THAT ADEQUATE TRAPPING EFFICIENCY AND STORAGE VOLUME IS AVAILABLE. VEGETATIVE FILTER STRIPS SHOULD BE MAINTAINED TO INSURE A VIGOROUS STAND OF VEGETATION AT ALL TIMES. RESHAPE PAD AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL. REPAIR ANY BROKEN ROAD PAVEMENT IMMEDIATELY. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY PRACTICES ARE NO LONGER NEEDED. TRAPPED SEDIMENT SHALL BE REMOVED OR STABILIZED ON SITE. DISTURBED SOIL AREAS RESULTING FROM REMOVAL SHALL BE PERMANENTLY STABILIZED.



DUST CONTROL ON DISTURBED AREAS (Du)

DEFINITION

CONTROLLING SURFACE AND AIR MOVEMENT OF DUST ON CONSTRUCTION SITES, ROADS, AND DEMOLITION SITES.

PURPOSE

TO PREVENT SURFACE AND AIR MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES.

TO REDUCE THE PRESENCE OF AIRBORNE SUBSTANCES THAT MAY BE HARMFUL OR INJURIOUS TO HUMAN HEALTH, WELFARE, OR SAFETY, OR TO ANIMALS OR PLANT LIFE.

CONDITIONS

THIS PRACTICE IS APPLICABLE TO AREAS SUBJECT TO SURFACE AND AIR MOVEMENT OF DUST WHERE ON AND OFF-SITE DAMAGE MAY OCCUR WITHOUT TREATMENT.

METHOD AND MATERIALS

VEGETATIVE COVER. SEE SPECIFICATION DS2 - DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING).

TILLAGE
THIS PRACTICE IS DESIGNED TO ROUGHEN AND BRING CLODS TO THE SURFACE. IT IS AN EMERGENCY MEASURE THAT SHOULD BE USED BEFORE WIND EROSION STARTS. BEGIN PLOWING ON WINDWARD SIDE OF CHISEL-TYPE PLOWS SPACED ABOUT 12 INCHES APART, SPRING-TOOTHED HARROWS, AND SIMILAR PLOWS ARE EXAMPLES OF EQUIPMENT THAT MAY PRODUCE THE DESIRED EFFECT.

IRRIGATION
THIS IS GENERALLY DONE AS AN EMERGENCY TREATMENT. SITE IS SPRINKLED WITH WATER UNTIL THE SURFACE IS WET. REPEAT AS NEEDED.

BARRIERS
SOLID BOARD FENCES, SNOWFENCES, BURLAP FENCES, CRATE WALLS, BALES OF HAY AND SIMILAR MATERIAL CAN BE USED TO CONTROL AIR CURRENTS AND SOIL BLOWING. BARRIERS PLACED AT RIGHT ANGLES TO PREVAILING CURRENTS AT INTERVALS OF ABOUT 15 TIMES THEIR HEIGHT ARE EFFECTIVE IN CONTROLLING WIND EROSION.

CALCIUM CHLORIDE
APPLY AT RATE THAT WILL KEEP SURFACE MOIST. MAY NEED RETREATMENT.

PERMANENT VEGETATION
SEE SPECIFICATION DS3-DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION). EXISTING TREES AND LARGE SHRUBS MAY AFFORD VALUABLE PROTECTION IF LEFT IN PLACE.

Rev.	Date	By	Description

PERMIT DRAWINGS FOR PROSPECT PIER
EROSION & SEDIMENT CONTROL NOTES - SHEET 1 OF 3

Designed by: MSM	Date: 2/25/2021	MAN Project No: 11120-01	Drawing code:	Drawing Scale:	Per scale: 1" = 10' (SHEET)
Drawn by: MSM					
Reviewed by: SBJ					
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Sheet Reference No. **C-001**
INDEX: 5 OF 20

PERMIT DRAWINGS
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RIPRAP **St**

DEFINITION

A PERMANENT, EROSION-RESISTANT GROUND COVER OF LARGE, LOOSE, ANGULAR STONE.

PURPOSE

TO PROTECT SLOPES, STREAMBANKS, CHANNELS, OR AREAS SUBJECT TO EROSION BY WAVE ACTION.

ROCK RIPRAP PROTECTS SOIL FROM EROSION DUE TO CONCENTRATED RUNOFF. IT IS USED TO STABILIZE SLOPES THAT ARE UNSTABLE DUE TO SEEPAGE. IT IS ALSO USED TO SLOW THE VELOCITY OF CONCENTRATED RUNOFF WHICH IN TURN INCREASES THE POTENTIAL FOR INFILTRATION.

CONSTRUCTION RECOMMENDATIONS

SUBGRADE FOR THE FILTER MATERIAL, GEOTEXTILE FABRIC OR RIPRAP SHOULD BE CLEARED AND GRUBBED TO REMOVE ALL ROOTS, VEGETATION, AND DEBRIS AND PREPARED TO THE LINES AND GRADES SHOWN ON THE PLANS. EXCAVATE DEEP ENOUGH FOR BOTH FILTER

AND RIPRAP. COMPACT ANY FILL MATERIAL TO THE DENSITY OF SURROUNDING UNDISTURBED SOIL.

EXCAVATE A KEYWAY IN STABLE MATERIAL AT BASE OF SLOPE TO REINFORCE THE TOE. KEYWAY DEPTH SHOULD BE 1.5 TIMES THE DESIGN THICKNESS OF RIPRAP AND SHOULD EXTEND A HORIZONTAL DISTANCE EQUAL TO THE DESIGN THICKNESS.

ROCK AND/OR GRAVEL USED FOR FILTER AND RIPRAP SHALL CONFORM TO THE SPECIFIED GRADATION. VOIDS IN THE ROCK RIPRAP SHOULD BE FILLED WITH SPALLS AND SMALLER ROCKS.

FILTER

INSTALL SYNTHETIC FILTER FABRIC OR A SAND/GRAVEL FILTER ON SUBGRADE.

SYNTHETIC FILTER FABRIC

PLACE FILTER FABRIC ON A SMOOTH FOUNDATION. OVERLAP EDGES AT LEAST 12 INCHES, WITH ANCHOR PINS SPACED EVERY 3 FT ALONG OVERLAP. FOR LARGE STONES, A 4-INCH LAYER OF SAND MAY BE NEEDED TO PROTECT FILTERCLOTH.

GEOTEXTILE FABRICS SHOULD BE PROTECTED FROM PUNCTURE OR TEARING DURING PLACEMENT OF THE ROCK RIPRAP BY PLACING A CUSHION OF SAND AND GRAVEL OVER THE FABRIC. DAMAGED AREAS IN THE FABRIC SHOULD BE REPAIRED BY PLACING A PIECE OF FABRIC OVER THE DAMAGED AREA OR BY COMPLETE REPLACEMENT OF THE FABRIC. ALL OVERLAPS REQUIRED FOR REPAIRS OR JOINING TWO PIECES OF FABRIC SHOULD BE A MINIMUM OF 12 INCHES.

SAND/GRAVEL FILTER

SPREAD WELL-GRADED AGGREGATE IN A UNIFORM LAYER TO THE REQUIRED THICKNESS (6 INCHES MINIMUM). IF TWO OR MORE LAYERS ARE SPECIFIED, PLACE THE LAYER OF SMALLER STONES FIRST AND AVOID MIXING THE LAYERS.

STONE PLACEMENT

PLACE RIPRAP IMMEDIATELY AFTER INSTALLING FILTER. INSTALL RIPRAP TO FULL THICKNESS IN ONE OPERATION. DO NOT DUMP THROUGH CHUTES OR USE ANY METHOD THAT CAUSES

SEGREGATION OF STONE SIZES. AVOID DISLODGING OR DAMAGING UNDERLYING FILTER MATERIAL WHEN PLACING STONE.

IF FABRIC IS DAMAGED, REMOVE RIPRAP AND REPAIR FABRIC BY ADDING ANOTHER LAYER, OVERLAPPING THE DAMAGED AREA BY 12 INCHES.

PLACE SMALLER STONES IN VOIDS TO FORM A DENSE, UNIFORM, WELL-GRADED MASS SELECTIVE LOADING AT THE QUARRY AND SOME HAND PLACEMENT MAY BE NECESSARY TO OBTAIN AN EVEN DISTRIBUTION OF STONE SIZES. BLEND THE STONE SURFACE SMOOTHLY WITH THE SURROUNDING AREA ALLOWING NO PROTRUSIONS OR OVERFALL.

SINCE RIPRAP IS USED WHERE EROSION POTENTIAL IS HIGH, CONSTRUCTION MUST BE SEQUENCED SO THAT THE RIPRAP IS PUT IN PLACE WITH THE MINIMUM POSSIBLE DELAY. DISTURBANCE OF AREAS WHERE RIPRAP IS TO BE PLACED SHOULD BE UNDERTAKEN ONLY WHEN FINAL PREPARATION AND PLACEMENT OF THE RIPRAP CAN FOLLOW IMMEDIATELY BEHIND THE INITIAL DISTURBANCE.

WHERE RIPRAP IS USED FOR OUTLET PROTECTION, THE RIPRAP SHOULD BE PLACED BEFORE OR IN CONJUNCTION WITH THE CONSTRUCTION OF THE PIPE OR CHANNEL

MAINTENANCE

RIPRAP SHOULD BE CHECKED AT LEAST ANNUALLY AND AFTER EVERY MAJOR STORM FOR DISPLACED STONES, SLUMPING, AND EROSION AT EDGES, ESPECIALLY DOWNSTREAM OR DOWNSLOPE. IF THE RIPRAP HAS BEEN DAMAGED, IT SHOULD BE REPAIRED IMMEDIATELY BEFORE FURTHER DAMAGE CAN TAKE PLACE.

WOODY VEGETATION SHOULD BE REMOVED FROM THE ROCK RIPRAP ANNUALLY BECAUSE TREE ROOTS WILL EVENTUALLY DISLODGE THE RIPRAP.

IF THE RIPRAP IS ON A CHANNEL BANK, THE STREAM SHOULD BE KEPT CLEAR OF OBSTRUCTIONS SUCH AS FALLEN TREES, DEBRIS, AND SEDIMENT BARS THAT MAY CHANGE FLOW PATTERNS WHICH COULD DAMAGE OR DISPLACE THE RIPRAP.



Mark	Description	Date	Appr.

PERMIT DRAWINGS FOR PROSPECT PIER

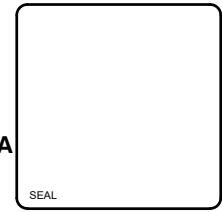
EROSION & SEDIMENT CONTROL NOTES - SHEET 2 OF 3

Designed by: MSM	Date: 2/25/2021	Rev: ----
Dwn by: MSM	M&N Project No.: 11120-01	
Ord by: SBJ	Drawing code:	
Reviewed by: SBJ	Drawing Scale:	
Submitted by: MOFFATT & NICHOL	Per scale: 1:1 (0 SHEET)	

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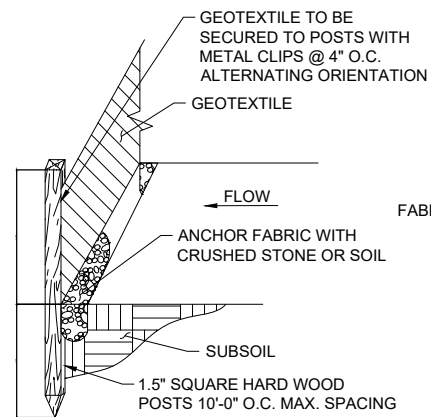


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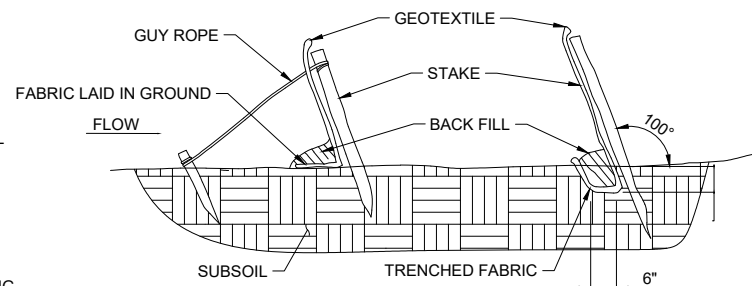


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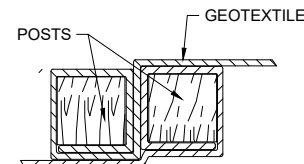
Sheet Reference No.
C-002
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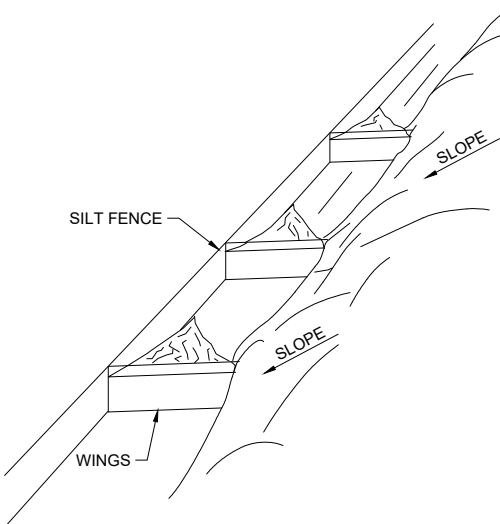
SILT FENCE



BACK FILL OR TRENCH FABRIC TOE



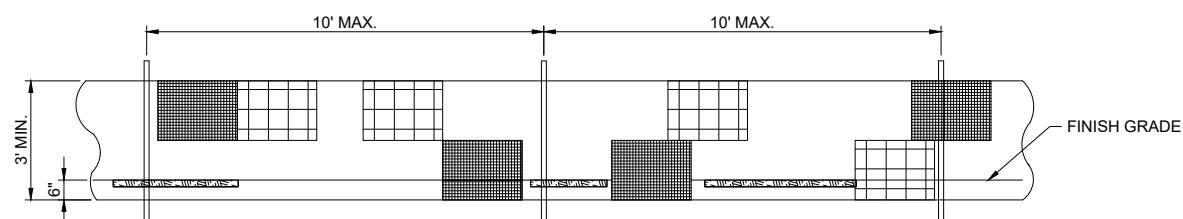
FENCE JOINT PLAN VIEW



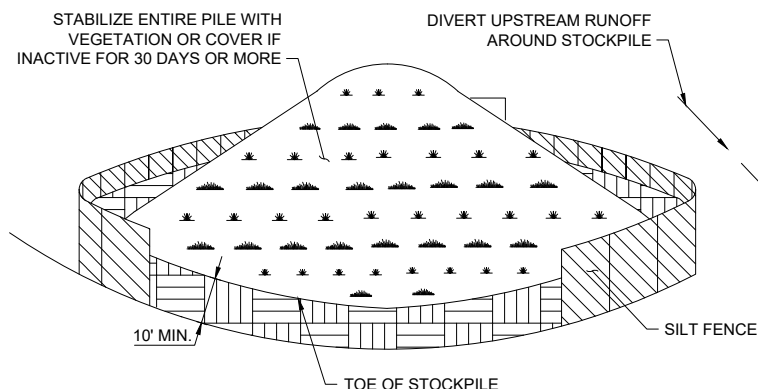
SILT FENCE SYSTEM PLACEMENT ON TOE OF SLOPE

GEOTEXTILE SILT FENCE NOTES:

1. GEOTEXTILE FENCE SHOULD BE PLACED SO THE FENCE LEANS TOWARD THE SOURCE OF SEDIMENT.
2. MAXIMUM SPACING FOR WOODEN STAKES OR STEEL POSTS IS 10'-0".
3. WOOD STAKES SHALL HAVE A MINIMUM CROSS-SECTION SIZE OF 1.5"x1.5" AND A MINIMUM LENGTH OF 3'-6". SILT FENCE SUBJECT TO HEAVY LOADS SHALL BE REINFORCED WITH STEEL POSTS AT LEAST 0.5 LB. PER FOOT WITH A MINIMUM LENGTH OF 4 FT.
4. WOODEN STAKES OR STEEL POSTS SHALL BE DRIVEN TO A MINIMUM OF 12" INTO THE GROUND.
5. 6" OF GEOTEXTILE SHALL BE BURIED BY BACK FILLING OR TRENCHING AND AT LEAST 30" IN HEIGHT OF GEOTEXTILE SHALL BE EXPOSED.
6. FABRIC SHALL BE JOINED ONLY AT A SUPPORT POST WITH A MINIMUM OF 6" OVERLAP AND SECURELY SEALED.
7. UPON REESTABLISHMENT OF GROUND COVER IN DISTURBED AREAS AND WHEN DIRECTED BY THE ENGINEER OR UPON FINAL INSPECTION, FENCE AND ANY SEDIMENT SHALL BE REMOVED. AT NO TIME WILL THE FENCE REMAIN IN PLACE AFTER PROJECT COMPLETION.
8. GEOTEXTILE FENCE SHALL NOT BE USED IN A WATER COURSE.
9. ONLY GEOTEXTILE FROM THE DEPARTMENTS APPROVED PRODUCT LIST SHALL BE USED.
10. BACK FILLING OF GEOTEXTILE SHALL ONLY BE USED WHEN GROUND IS FROZEN OR WHERE OTHER OBSTRUCTIONS ARE ENCOUNTERED THAT PROHIBIT TRENCHING; E.G., STUMPS OR ROCKS.
11. CLEAN OUT ACCUMULATED SEDIMENT WHEN ONE-HALF OF THE ORIGINAL HEIGHT OF THE GEOTEXTILE FENCE BECOMES FILLED WITH SEDIMENT OR AS DIRECTED BY THE ENGINEER.
12. POSITION POSTS TO OVERLAP MAKING CERTAIN THAT FABRIC FOLDS AROUND EACH POST ONE FULL TURN.
13. DRIVE POSTS TIGHTLY TOGETHER AND SECURE TOPS OF POSTS BY TYING OFF WITH CORD OR WIRE TO PREVENT FLOW-THROUGH OF BUILT-UP SEDIMENT AT JOINTS.
14. WHEN USING SILT FENCE ALONG TOE OF SLOPE, ADD WINGS TO PREVENT SEDIMENT FROM MOVING ALONG THE FENCE AND OFF THE SITE.



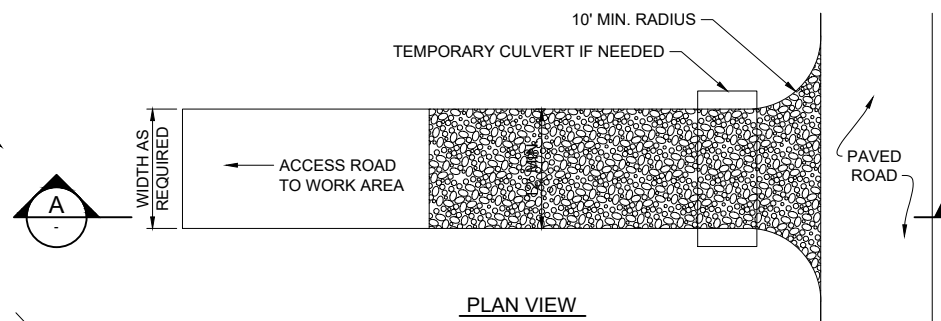
ELEVATION VIEW



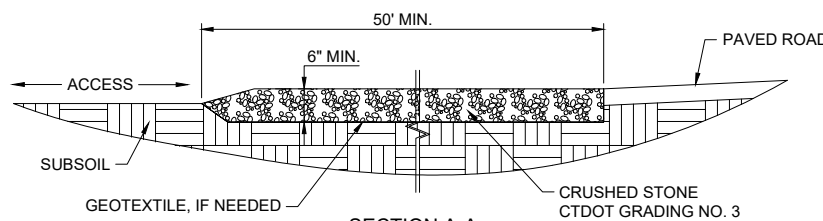
TEMPORARY SOIL STOCKPILING NOTES:

1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 2H:1V.
3. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH EITHER SILT FENCING OR HAY BALES, THEN STABILIZED WITH VEGETATION OR COVERED WITH POLYETHYLENE SHEETING AND SANDBAGS.
4. A POLYETHYLENE MEMBRANE UNDERLAYMENT MAY BE REQUIRED PER ENGINEER REQUESTS.

TEMPORARY SOIL STOCKPILING



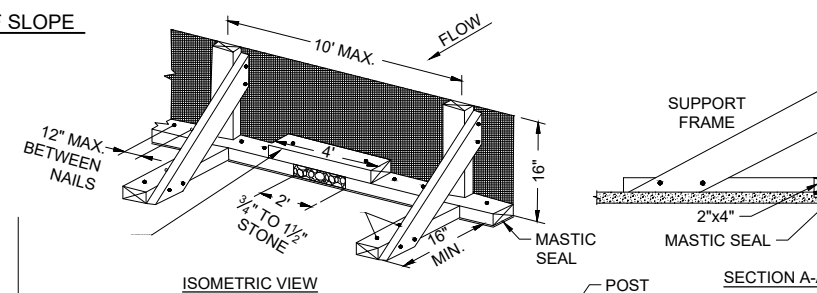
PLAN VIEW



SECTION A-A

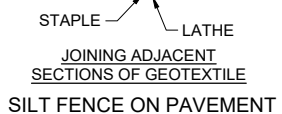
CONSTRUCTION ENTRANCE NOTES:

1. TOPSOIL AND ORGANICS SHOULD BE REMOVED PRIOR TO INSTALLATION.
2. CONSTRUCTION ENTRANCE TO BE LOCATED WHERE ACCESS ROAD MEETS PAVED ACCESS/DRIVEWAY.
3. AFTER CONSTRUCTION, ANY DEBRIS SHOULD BE CLEARED FROM THE TRACKING PAD, THE PAD RE-LEVELLED AND 2'-4" OF 3/4" CRUSHED GRAVEL SHOULD BE ADDED TO FILL VOIDS AND CREATE A SMOOTH SURFACE WITH A 2% CROWN OR CROSS-SLOPE.



ISOMETRIC VIEW

SECTION A-A



JOINING ADJACENT SECTIONS OF GEOTEXTILE

CONSTRUCTION SPECIFICATIONS

1. USE NOMINAL 2 INCH X 4 INCH LUMBER.
2. USE WOVEN SLIT FILM GEOTEXTILE, SUCH AS POLYPROPYLENE, NYLON, POLYESTER, ETHYLENE, OR APPROVED SIMILAR MATERIAL.
3. PROVIDE MANUFACTURER CERTIFICATION TO THE AUTHORIZED REPRESENTATIVE OF THE INSPECTION/ENFORCEMENT AUTHORITY SHOWING THAT THE GEOTEXTILE USED MEETS THE REQUIREMENTS.
4. SPACE UPRIGHT SUPPORTS NO MORE THAN 10 FEET APART.
5. PROVIDE A TWO FOOT OPENING BETWEEN EVERY SET OF SUPPORTS AND PLACE STONE IN THE OPENING OVER GEOTEXTILE.
6. KEEP SILT FENCE TAUT AND SECURELY STAPLE TO THE UPSLOPE SIDE OF UPRIGHT SUPPORTS. EXTEND GEOTEXTILE UNDER 2x4.
7. WHERE TWO SECTIONS OF GEOTEXTILE ADJOIN: OVERLAP, FOLD, AND STAPLE TO POST IN ACCORDANCE WITH THIS DETAIL. ATTACH LATHE.
8. PROVIDE A MASTIC SEAL BETWEEN PAVEMENT, GEOTEXTILE, AND 2x4 TO PREVENT SEDIMENT-LADEN WATER FROM ESCAPING BENEATH SILT FENCE INSTALLATION.
9. SECURE BOARDS TO PAVEMENT WITH 40D 5 INCH MINIMUM LENGTH NAILS.
10. REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN SILT FENCE OR WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT. REPLACE GEOTEXTILE IF TORN. MAINTAIN WATER TIGHT SEAL ALONG BOTTOM. REPLACE STONE IF DISPLACED.

PERMIT DRAWINGS FOR PROSPECT PIER

EROSION & SEDIMENT CONTROL NOTES - SHEET 3 OF 3

Designed by:	MSM	Drawn by:	SBU	Reviewed by:	SBU	Submitted by:	MOFFATT & NICHOL
Date:	2/25/2021	MAN Project No.:	11120-01	Drawing code:		Drawing Scale:	1" = 10' (0 SHEET)

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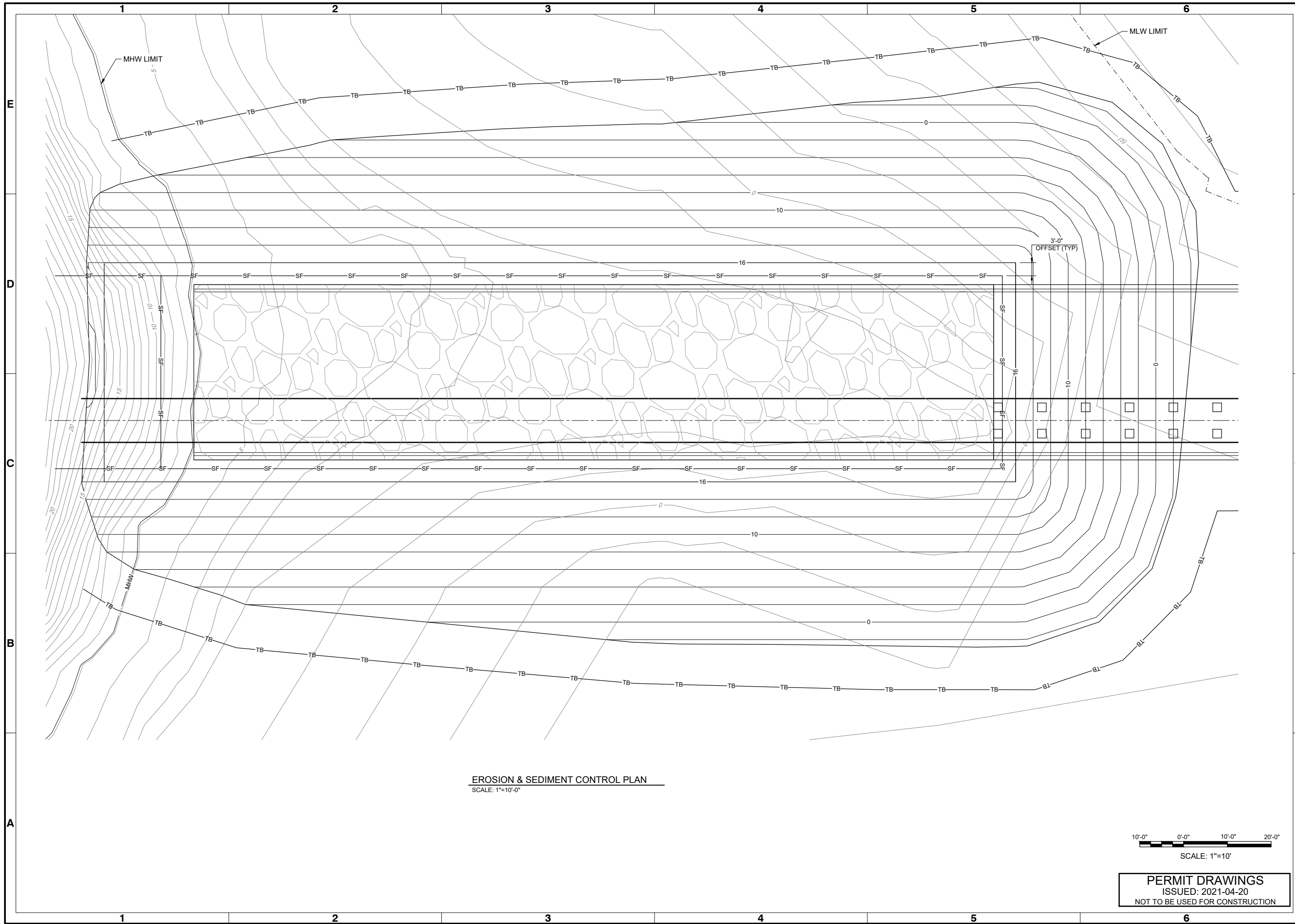


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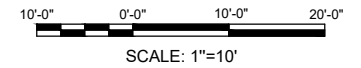
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C-003
INDEX: 7 OF 20



EROSION & SEDIMENT CONTROL PLAN
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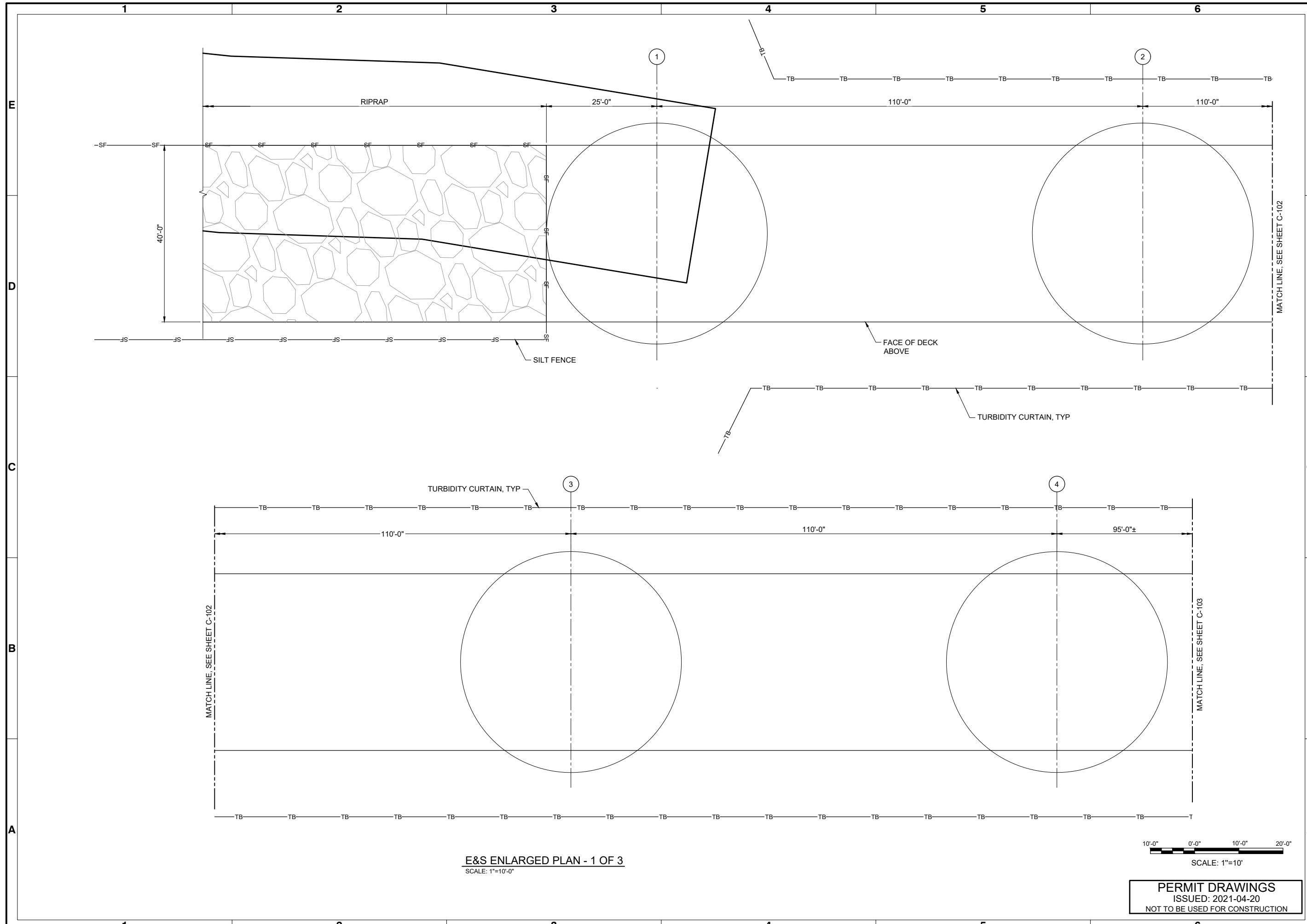
Mark	Description	Date	Appr

PERMIT DRAWINGS FOR PROSPECT PIER
EROSION & SEDIMENT CONTROL PLAN

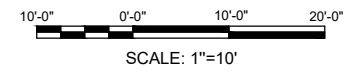
<p>MOFFATT & NICHOL 101 W. MAIN ST. SUITE 3000 NORFOLK, VA 23510</p>	<p>Designed by: MSM</p> <p>Drawn by: MSM</p> <p>Reviewed by: SBJ</p> <p>Submitted by: MOFFATT & NICHOL</p>	<p>Date: 2/25/2021</p> <p>MAN Project No. 11120-01</p> <p>Drawing code: </p> <p>Drawing Scale: 1" = 10' (0 SHEET)</p>
<p>SALMONS, INC. 781 PRINCESS ANNE RD. VIRGINIA BEACH, VA 23457</p>	<p>Submitted by: MIRANDA, MATHEUS</p> <p>Per scale: 1" = 10' (0 SHEET)</p> <p>Plotted: 8/31/2021 5:29 PM by MIRANDA, MATHEUS ; Saved: 8/31/2021 5:28 PM by MIRANDA</p>	

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C-101
 INDEX: 8 OF 20



E&S ENLARGED PLAN - 1 OF 3
 SCALE: 1"=10'-0"



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PERMIT DRAWINGS FOR PROSPECT PIER
E&S ENLARGED 1 OF 3

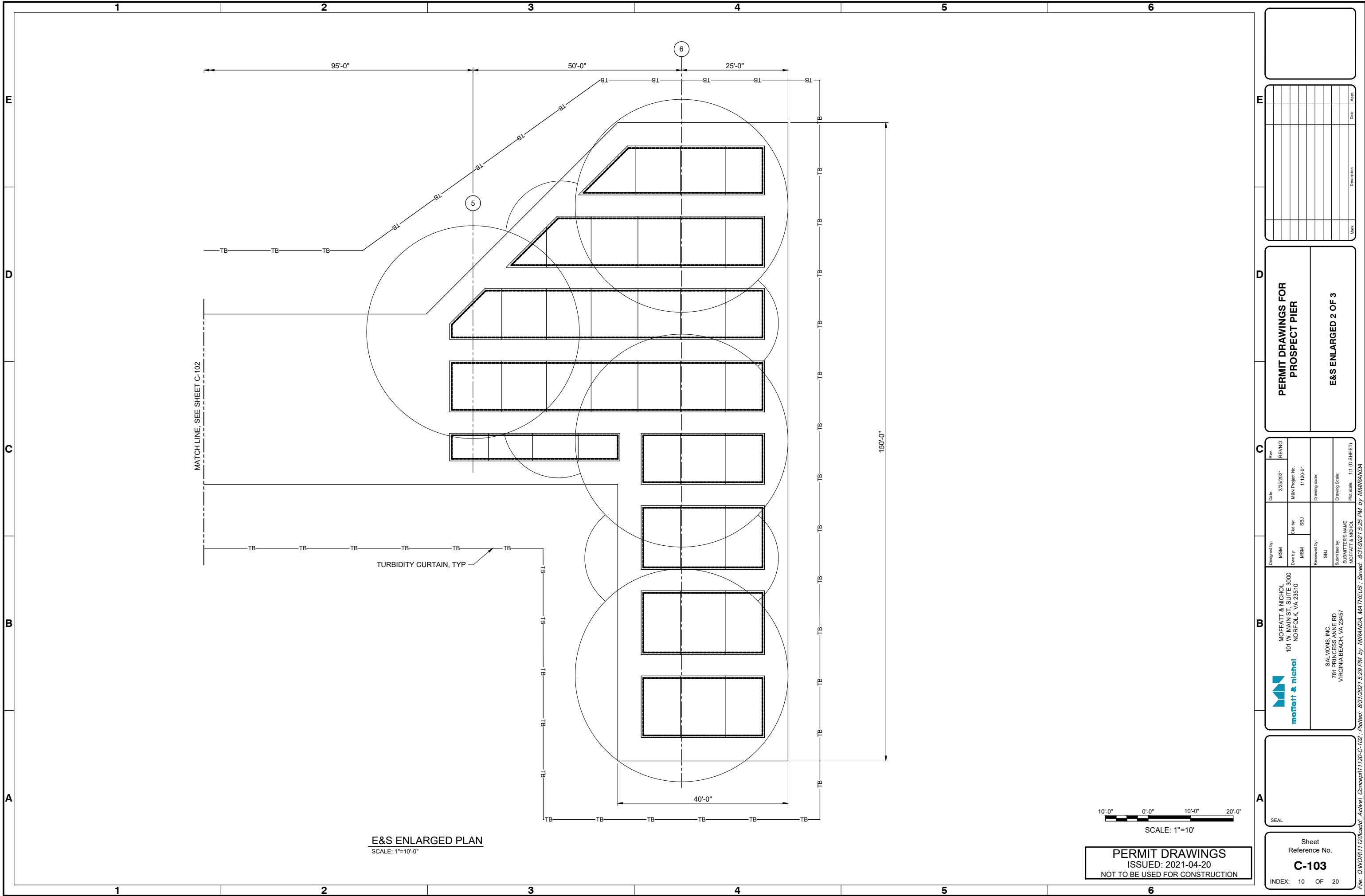
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MSM	2/25/2021		
Drawn by:			
MSM			
Checked by:			
SBJ			
Reviewed by:			
SBJ			
Submitted by:			
MOFFATT & NICHOL			
Submitted by:			
SALMONS INC.			
MOFFATT & NICHOL			
Drawing code:			
Drawing Scale:			
1:1 (0 SHEET)			
Plot scale:			
1:1 (0 SHEET)			

MOFFATT & NICHOL
 101 W. MAIN ST. SUITE 3000
 NORFOLK, VA 23510

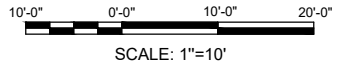
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 VIRGINIA BEACH, VA 23457

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Sheet Reference No.
C-102
 INDEX: 9 OF 20



E&S ENLARGED PLAN
SCALE: 1"=10'-0"



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PERMIT DRAWINGS FOR PROSPECT PIER

E&S ENLARGED 2 OF 3

Designed by: MSM	Date: 2/25/2021	Rev: REVISIONS
Drawn by: MSM	M&N Project No. 11120-01	
Checked by: SBJ	Drawing code:	
Reviewed by: SBJ	Submitted by: MOFFATT & NICHOL	Drawing Scale: 1" = 10'-0" (1/8 SHEET)

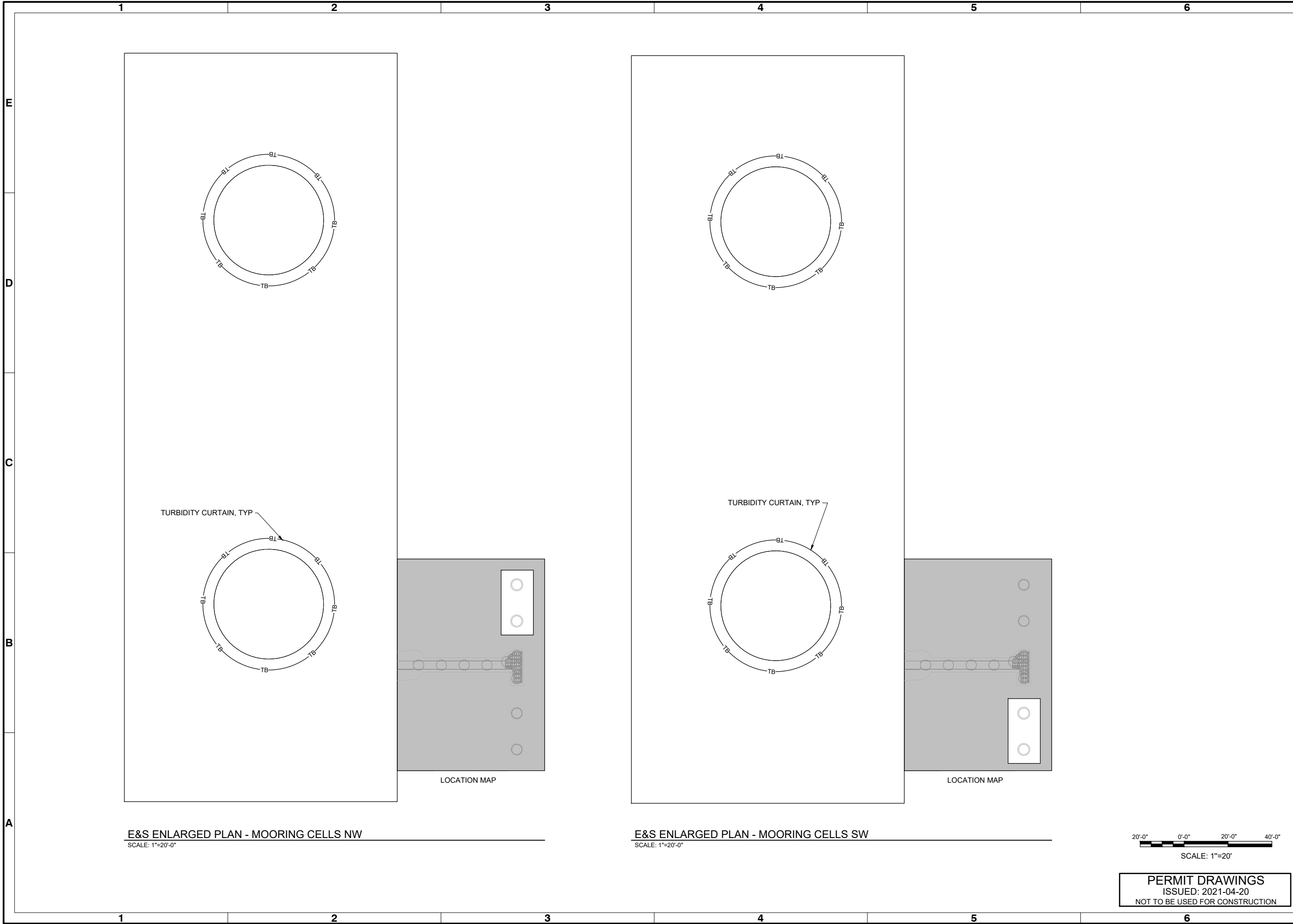
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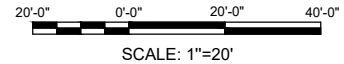
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E&S ENLARGED PLAN - MOORING CELLS NW
SCALE: 1"=20'-0"

E&S ENLARGED PLAN - MOORING CELLS SW
SCALE: 1"=20'-0"



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PERMIT DRAWINGS FOR PROSPECT PIER
E&S ENLARGED 3 OF 3

Revised	REVNO	Date	By	Description

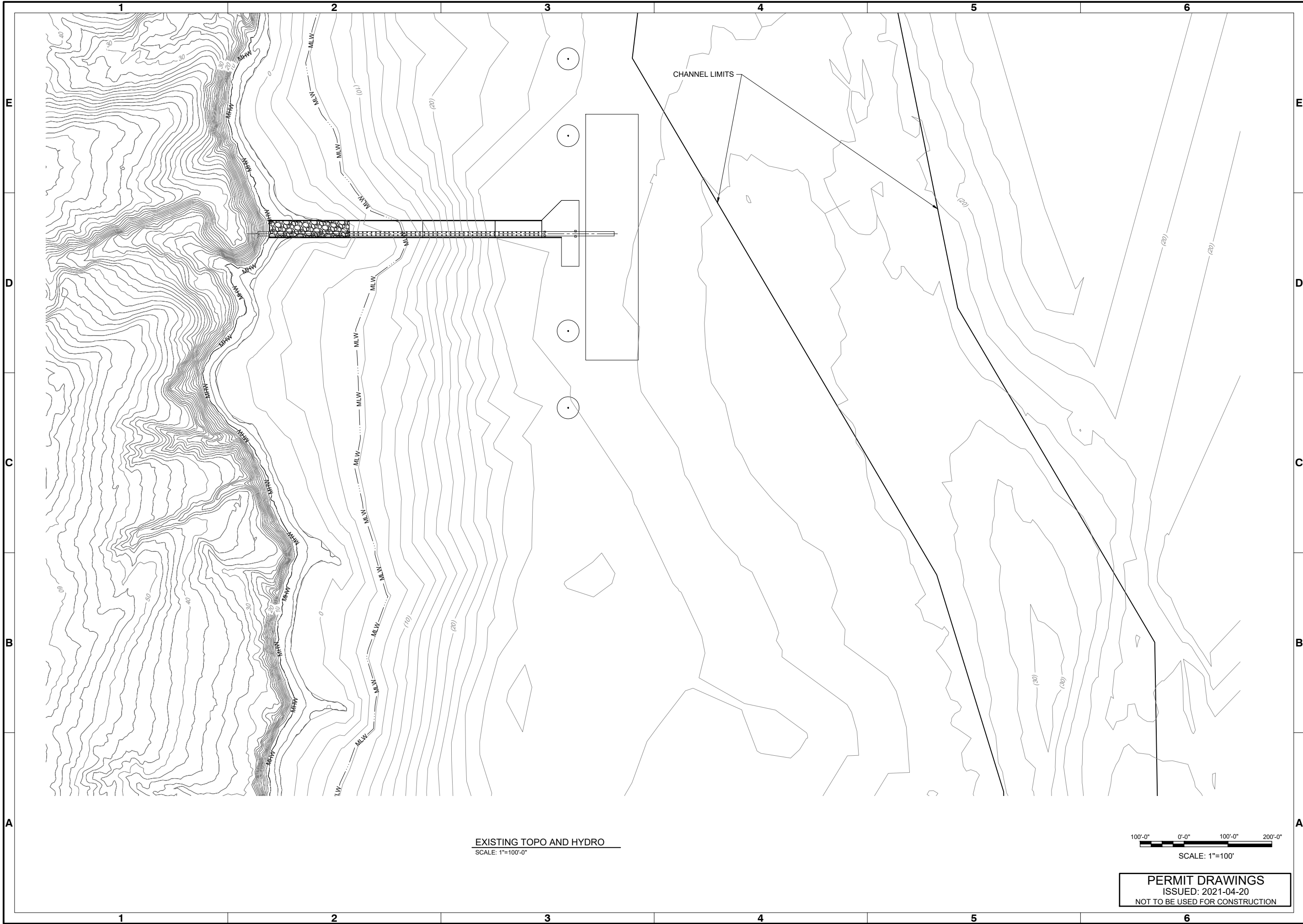
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C-104
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EXISTING TOPO AND HYDRO
SCALE: 1"=100'-0"

100'-0" 0'-0" 100'-0" 200'-0"
SCALE: 1"=100'

PERMIT DRAWINGS
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PERMIT DRAWINGS FOR PROSPECT PIER

EXISTING TOPO AND HYDRO

Designed by:	Date:	Rev:
MSM	2/25/2021	----
Drawn by:	MAN Project No.:	Drawing code:
MSM	11120-01	
Reviewed by:	Submitted by:	Drawing Scale:
SBJ	MOFFATT & NICHOL	Per scale: 1" (0 SHEET)

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Sheet Reference No.
CS-101
INDEX: 12 OF 20

DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING

GENERAL NOTES:

- 1. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, LOCATIONS AND ELEVATIONS SHOWN ON CONTRACT DRAWINGS.
- 2. FOR NOTES PERTAINING TO INDIVIDUAL STRUCTURES, SEE DRAWINGS FOR THOSE STRUCTURES.
- 3. COORDINATE ALL ACTIVITIES, INCLUDING THOSE OF SUBCONTRACTORS, WITH THE OWNER'S ACTIVITIES.
- 4. FOR SPECIAL INSPECTION REQUIREMENTS, SEE SPECIFICATION SECTION 01 45 35 'SPECIAL INSPECTIONS'.

CODES AND STANDARDS:

- 1. AASHTO, AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, 2014
- 2. ACI 318, AMERICAN CONCRETE INSTITUTE, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND COMMENTARY, 2014 EDITION
- 3. ACI 301, AMERICAN CONCRETE INSTITUTE, SPECIFICATIONS FOR STRUCTURAL CONCRETE, 2016 EDITION
- 4. ACI 224R-01, AMERICAN CONCRETE INSTITUTE, CONTROL OF CRACKING IN CONCRETE STRUCTURES
- 5. AISC 341, AMERICAN INSTITUTE FOR STEEL CONSTRUCTION, SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS, 2010 EDITION
- 6. AISC 360, AMERICAN INSTITUTE FOR STEEL CONSTRUCTION, SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, 2010 EDITION
- 7. ASCE 7, AMERICAN SOCIETY OF CIVIL ENGINEERS, MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, 2016 EDITION
- 8. ASCE 61, AMERICAN SOCIETY OF CIVIL ENGINEERS, SEISMIC DESIGN OF PIERS AND WHARVES, 2014 EDITION
- 9. ASCE, AMERICAN SOCIETY OF CIVIL ENGINEERS, WATERFRONT FACILITIES INSPECTION AND ASSESSMENT, 2015
- 10. AWS D1.1, AMERICAN WELDING SOCIETY, STRUCTURAL WELDING CODE - STEEL, 2018 EDITION
- 11. AWS D1.4, AMERICAN WELDING SOCIETY, STRUCTURAL WELDING CODE - REINFORCING STEEL, 2018 EDITION
- 12. IBC, INTERNATIONAL CODE COUNCIL, INTERNATIONAL BUILDING CODE, 2018 EDITION
- 13. MAINE DEPARTMENT OF PUBLIC SAFETY, MAINE UNIFORM BUILDING AND ENERGY CODE, 2018
- 14. MAINE DOT, MAINE DEPARTMENT OF TRANSPORTATION, CONSTRUCTION MANUAL, 2003
- 15. MAINE DOT, MAINE DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS, 2020
- 16. MAINE EMERGENCY MANAGEMENT AGENCY, MAINE STATE HAZARD MITIGATION PLAN, 2019
- 17. PIANC WG 33, PERMANENT INTERNATIONAL ASSOCIATION OF NAVIGATION CONGRESSES, GUIDELINES FOR THE DESIGN OF FENDERS SYSTEMS, 2002
- 18. PIANC WG 34, PERMANENT INTERNATIONAL ASSOCIATION OF NAVIGATION CONGRESSES, SEISMIC DESIGN GUIDELINES FOR PORT STRUCTURES, 2001
- 19. UFC 4-152-01, UNIFIED FACILITIES CRITERIA, PIER AND WHARVES, 2017

DESIGN LOADS:

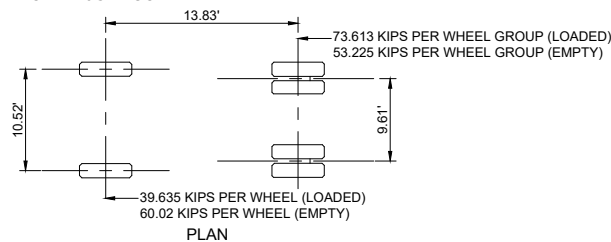
1. DEAD LOADS

DEAD LOADS INCLUDE SELF WEIGHT OF STRUCTURE, WEIGHT OF SUPPORTED EQUIPMENT, AND VERTICAL OR LATERAL EARTH PRESSURE

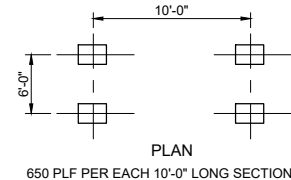
- A. REINFORCED CONCRETE..... 150 PCF
- B. PLAIN CONCRETE..... 144 PCF
- C. STEEL..... 490 PCF

2. LIVE LOADS

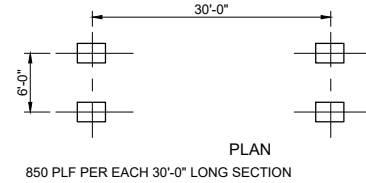
- A. UNIFORM..... 100 PSF
- B. STOCKPILE..... 800 PSF
- C. CAT 773G TRUCK



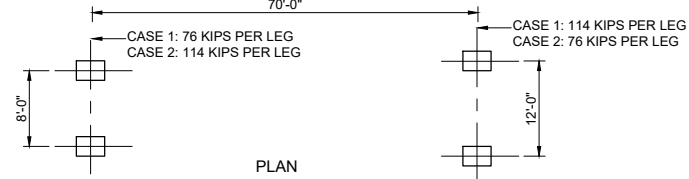
D. CONVEYOR (SHORT LEGS)



E. CONVEYOR (RAISED LEGS)



F. TELESCOPING BARGE LOADER



G. WIND

DESIGN WIND SPEED = 115 MPH (3 SECOND GUST AT 33 FT ABOVE GROUND)
 WIND SPEED DURING ICE CONDITIONS = 50 MPH (3 SEC GUST AT 33 FT ABOVE GROUND)
 OPERATING WIND SPEED DURING BERTHING = 40 MPH (3 SEC GUST)

H. SEISMIC

$S_s = 0.289g$ $I = 1.0$
 $S_1 = 0.074g$ SITE CLASS E
 $PGA = 0.173g$

3. LIVE LOAD IMPACT FACTORS

CAT 773G TRUCK - 33%

CONCRETE AND REINFORCING STEEL:

- 1. ALL CONCRETE WORK SHALL BE PERFORMED IN ACCORDANCE WITH CURRENT ACI 301, UNLESS OTHERWISE NOTED.
- 2. ALL CONCRETE SHALL BE NORMAL WEIGHT, UNLESS OTHERWISE NOTED.
- 3. ALL DETAILING, FABRICATION, AND ERECTION OF REINFORCING STEEL SHALL CONFORM TO THE ACI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES, ACI 315.
- 4. ALL GROUT IS TO BE NON-METALLIC AND NONSHRINK (UON).
- 5. CHAMFER ALL EXPOSED EXTERNAL CORNERS OF CONCRETE WITH 3/4", 45° CHAMFERS UNLESS OTHERWISE NOTED.
- 6. MINIMUM CONCRETE COVER FOR REINFORCING SHALL BE 3" UON.
- 7. ALL HORIZONTAL AND VERTICAL CONSTRUCTION JOINTS SHALL BE KEYED. ROUGHEN SURFACES OF HORIZONTAL CONSTRUCTION JOINTS TO 1/4" AMPLITUDE.
- 8. MATERIALS SHALL CONFORM TO THE FOLLOWING, UNLESS OTHERWISE NOTED:

A. CONCRETE STRENGTH 28 DAY

- 1. CAST-IN-PLACE.....4,000 PSI
- 2. GROUT.....8,000 PSI
- 3. PRECAST.....4,000 PSI

B. REINFORCING STEEL

- 1. ALL MILD STEEL REINFORCING STEEL FOR CAST-IN-PLACE AND PRECAST CONCRETE SHALL CONFORM TO ASTM A706 GRADE 60 AND SHALL BE HOT DIP GALVANIZED AFTER FABRICATION.
- 2. GALVANIZING REINFORCING STEEL SHALL COMPLY WITH ASTM A767/A767M, CLASS 1 COATING.
- 3. ALL REINFORCING BAR SPLICES SHALL BE CLASS "B" TENSION LAP SPLICES, IN ACCORDANCE WITH ACI 318

STRUCTURAL AND MISCELLANEOUS STEEL:

- 1. ALL STEEL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CURRENT AISC SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS.
- 2. ALL WELDING SHALL CONFORM TO THE REQUIREMENTS OF CURRENT AWS D1.1
- 3. STEEL MATERIALS SHALL CONFORM TO THE FOLLOWING, UNLESS OTHERWISE NOTED:
 - A. MISC PLATES, BARS, AND SHAPES.....ASTM A36
 - B. BOLTS.....ASTM A307
 - C. ANCHOR BOLTS/RODS.....ASTM F1554, GRADE 105
 - D. HSS MEMBERS.....ASTM A500, GRADE B
 - E. H-PILE.....ASTM A572, GRADE 50
- 4. ALL CARBON STEEL SHAPES, PLATES, FASTENERS AND ALL OTHER STEEL HARDWARE SHALL BE HOT DIP GALVANIZED AFTER ASSEMBLY, UNLESS OTHERWISE NOTED.
- 5. ALL WELDING ASSEMBLIES SHALL BE SHOP FABRICATED.
- 6. ALL STEEL SHAPES, AND OTHER FABRICATIONS SHALL BE GALVANIZED BY THE HOT-DIP PROCESS IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM A123 AND/OR A153 AS APPLICABLE, AFTER FABRICATION, UNLESS OTHERWISE INDICATED.
- 7. FIELD TREAT DAMAGED GALVANIZED STEEL FINISH WITH TWO COATS OF HIGH ZINC DUST OXIDE PAINT, COLD GALVANIZED COMPOUNDS, OR APPROVED EQUAL, CONFORMING TO THE REQUIREMENTS OF ASTM A780. IN ADDITION, ALL EXPOSED THREADED SURFACES SHALL BE PAINTED WITH TWO COATS OF HIGH ZINC DUST OXIDE PAINT AFTER INSTALLATION OF THE NUT.
- 8. ALL BOLTED CONNECTIONS SHALL HAVE HEAVY HEX NUTS AND WASHERS UNLESS OTHERWISE NOTED.



Rev.	Date	Description	Mark

PERMIT DRAWINGS FOR PROSPECT PIER

STRUCTURAL NOTES

Designed by: IM	Date: 2/25/2021	MAN Project No: 11120-01	Drawing code:	Drawing Scale: 1:1 (0 SHEET)
Drawn by: MSM	Checked by: BA	Submitted by: MOFFATT & NICHOL	Per scale:	1:1 (0 SHEET)
Reviewed by: SEJ	Submitted by: MOFFATT & NICHOL	Plot title: 1120-S-001		

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 NORFOLK, VA 23510

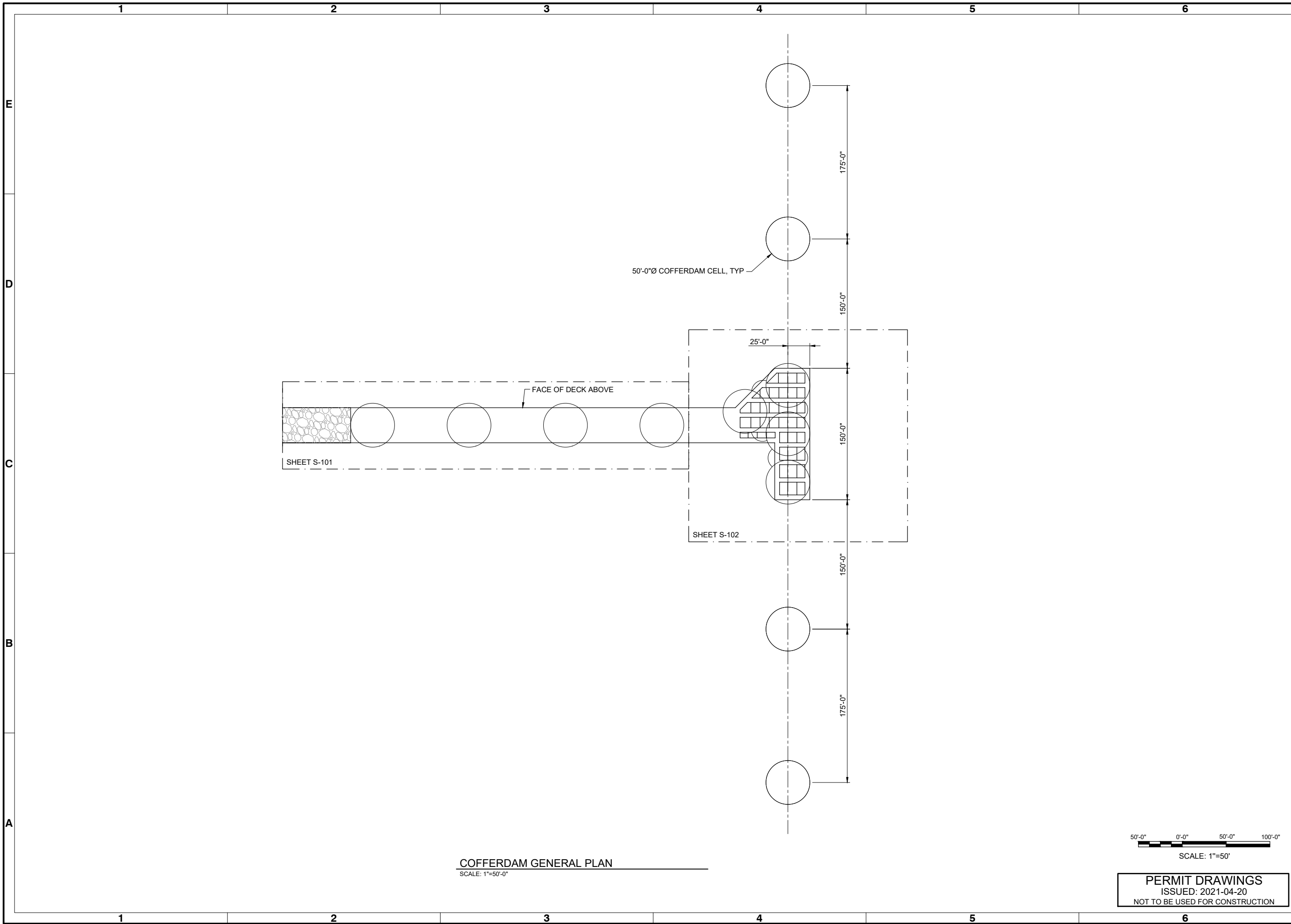
Salmons, Inc.
 781 PRINCESS ANNE RD.
 VIRGINIA BEACH, VA 23457

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 INDEX: 13 OF 20

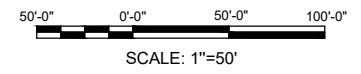


A
B
C
D
E

1 2 3 4 5 6

1 2 3 4 5 6

COFFERDAM GENERAL PLAN
SCALE: 1"=50'-0"



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ISSUED: 2021-04-20
NOT TO BE USED FOR CONSTRUCTION

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Rev.	REVNO	Description	Date	Appr.

PERMIT DRAWINGS FOR PROSPECT PIER
COFFERDAM GENERAL PLAN

Designed by: MSM
Dwn by: MSM
Rev. by: SBU
Submitted by: MOFFATT & NICHOL

Date: 2/25/2021
Rev.: REVNO
M&N Project No.: 11120-01
Drawing code:
Drawing Scale: 1"=50'
Plot scale: 1"=50'

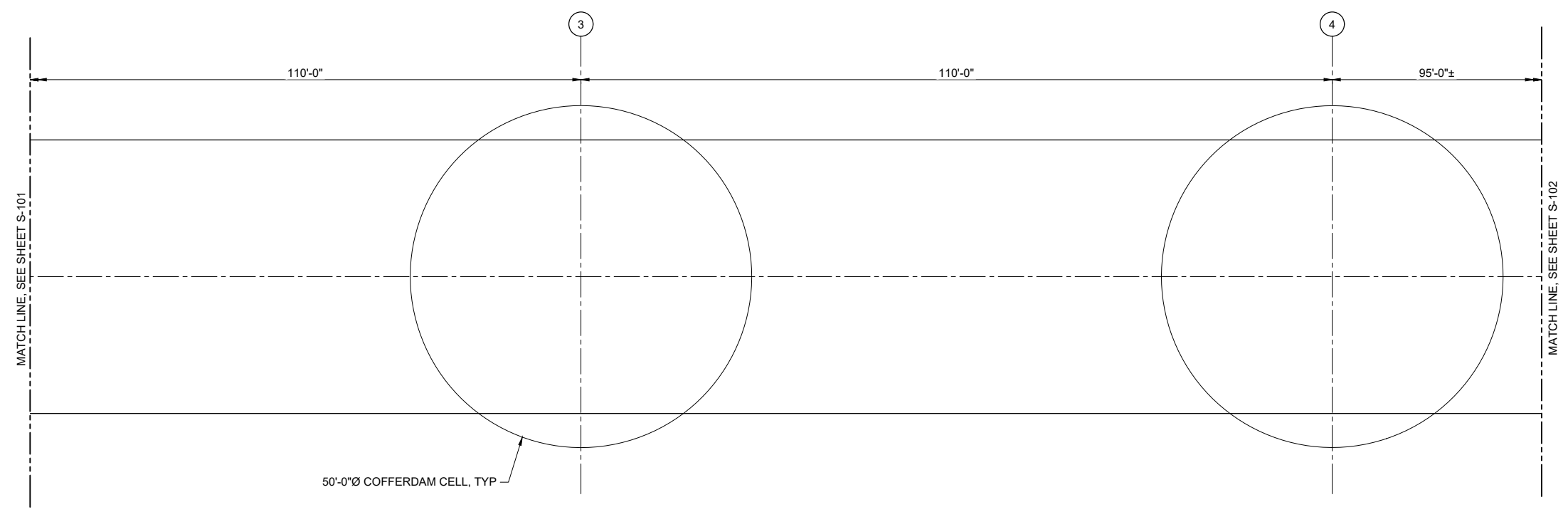
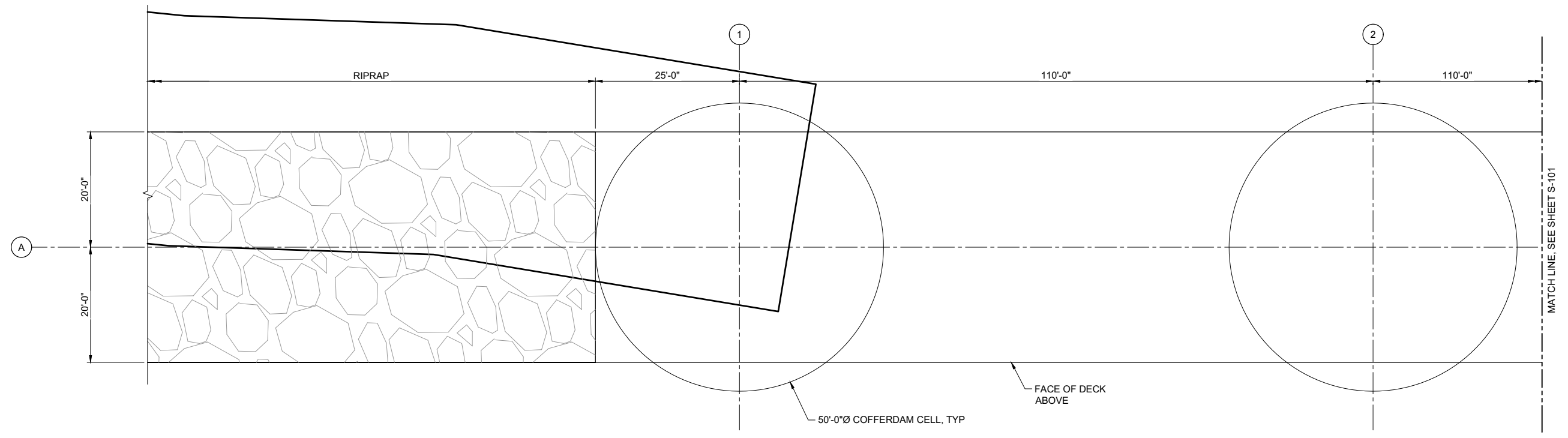
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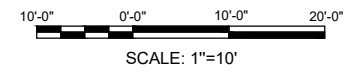
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Sheet Reference No. **S-100**
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COFFERDAM ENLARGED PLAN - 1 OF 2
SCALE: 1"=10'-0"



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Mark	Description	Date	Appr

PERMIT DRAWINGS FOR PROSPECT PIER

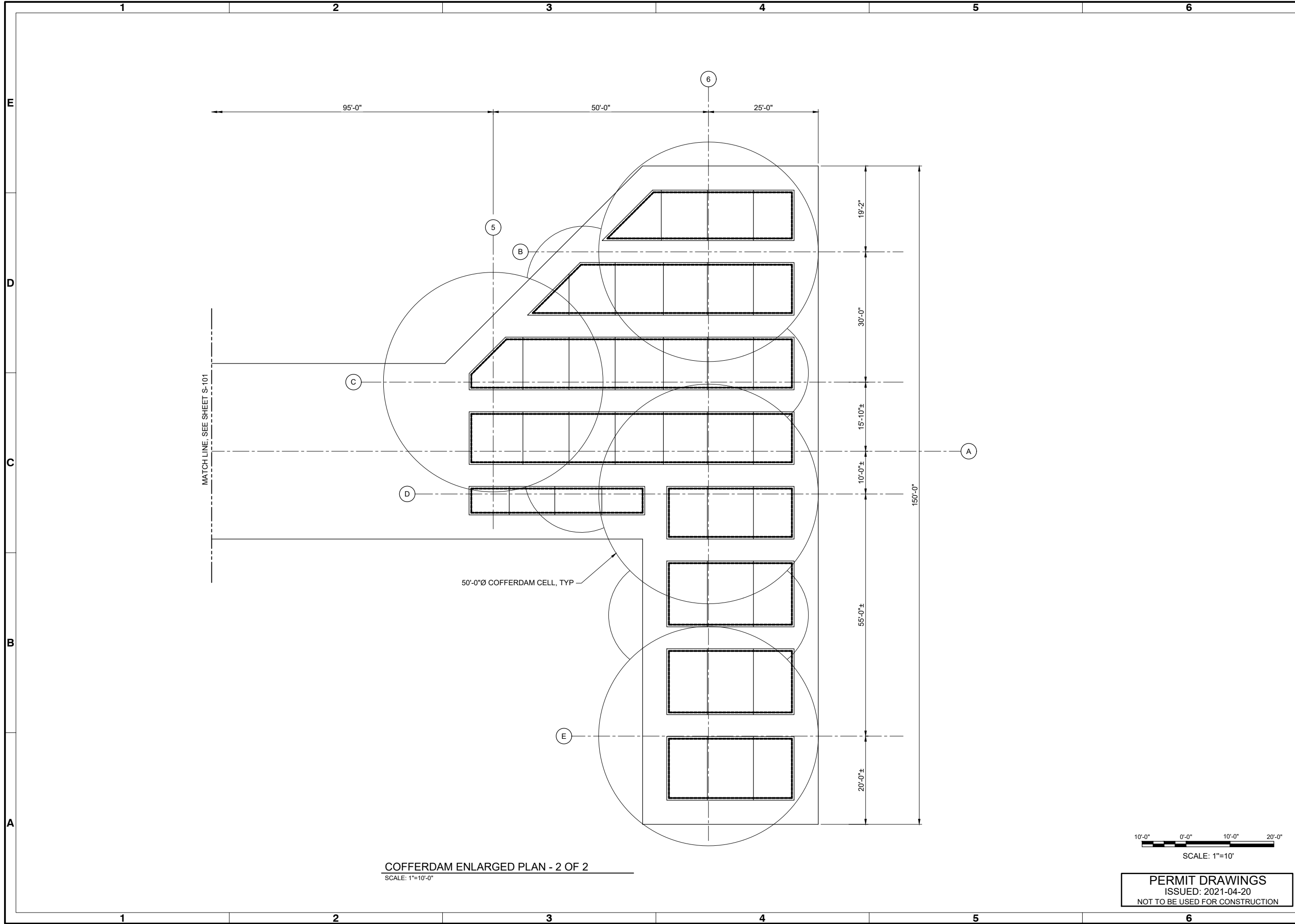
COFFERDAM ENLARGED PLAN - SHEET 1 OF 2

Designed by:	BS	Date:	2/25/2021
Drawn by:	MSM	M&N Project No.:	11120-01
Reviewed by:	SBU	Drawing code:	
Submitted by:	MOFFATT & NICHOL	Drawing Scale:	1" = 10' (0 SHEET)

 MOFFATT & NICHOL 101 W. MAIN ST. SUITE 3000 NORFOLK, VA 23510	SALMONS, INC. 781 PRINCESS ANNE RD. VIRGINIA BEACH, VA 23457

SEAL

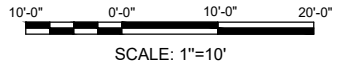
Sheet Reference No. **S-101**
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MATCH LINE, SEE SHEET S-101

50'-0"Ø COFFERDAM CELL, TYP

COFFERDAM ENLARGED PLAN - 2 OF 2
SCALE: 1"=10'-0"



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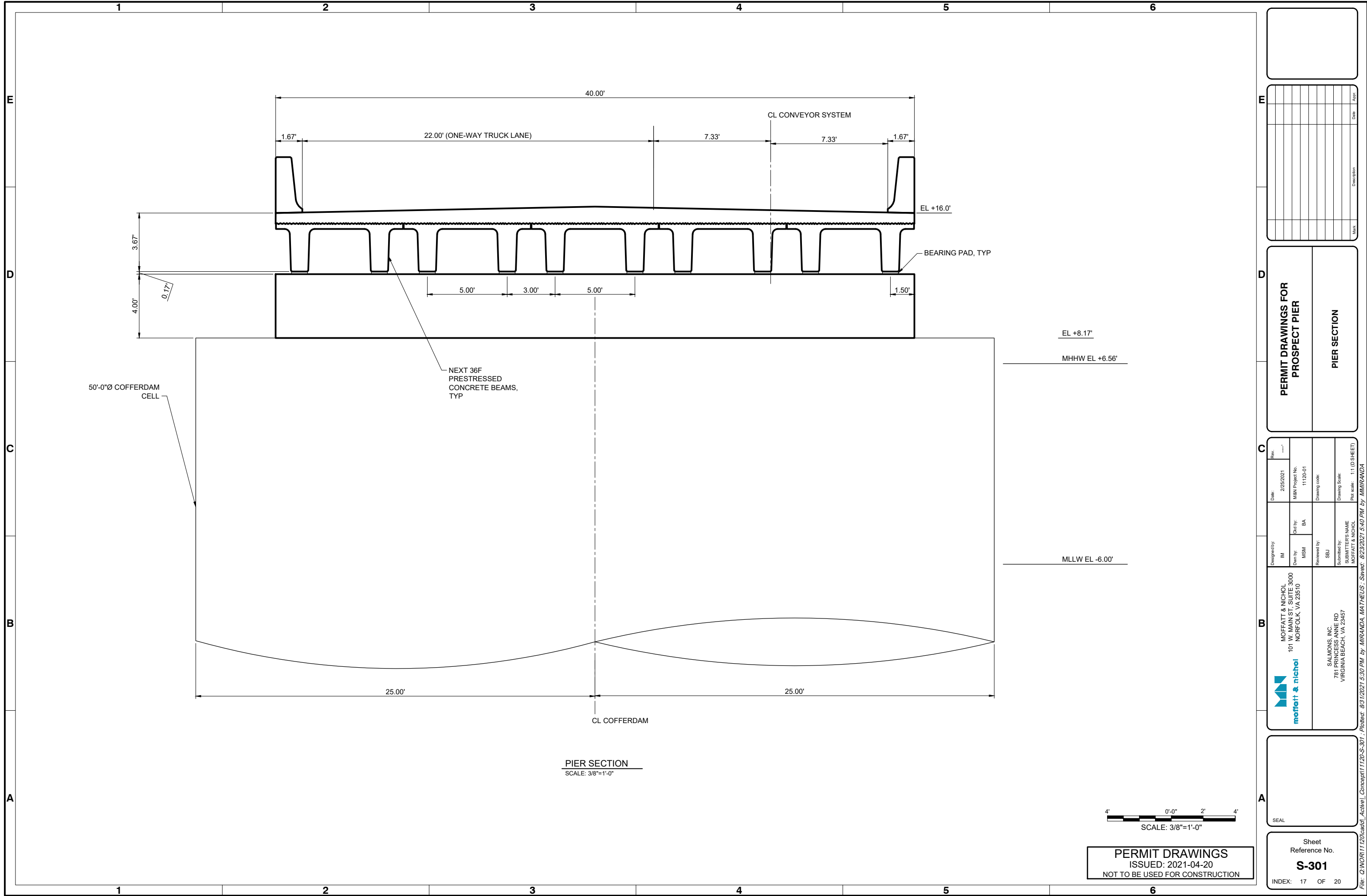
Mark	Description	Date	Appr

PERMIT DRAWINGS FOR PROSPECT PIER
COFFERDAM ENLARGED PLAN - SHEET 2 OF 2

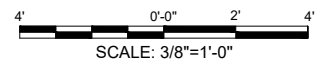
MOFFATT & NICHOL 101 W. MAIN ST. SUITE 3000 NORFOLK, VA 23510	SALMONS, INC. 781 PRINCESS ANNE RD VIRGINIA BEACH, VA 23457	Date: 2/25/2021 M&N Project No: 11120-01 Drawing code: Drawing Scale: 1"=10' (0 SHEET) Per scale: 1"=10'
Designed by: BS Drawn by: MSM Reviewed by: SBJ Submitted by: MOFFATT & NICHOL	Ctd by: SBJ Submitted by: SALMONS, INC. Submitted by: MOFFATT & NICHOL	Date: 2/25/2021 M&N Project No: 11120-01 Drawing code: Drawing Scale: 1"=10' (0 SHEET) Per scale: 1"=10'

SEAL

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



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PERMIT DRAWINGS FOR PROSPECT PIER

PIER SECTION

Designed by:	IM
Dwn by:	MSM
Reviewed by:	SEJ
Submitted by:	MOFFATT & NICHOL
Date:	2/25/2021
M&N Project No.:	11120-01
Drawing code:	
Drawing Scale:	1:1 (0 SHEET)
Per scale:	1:1 (0 SHEET)

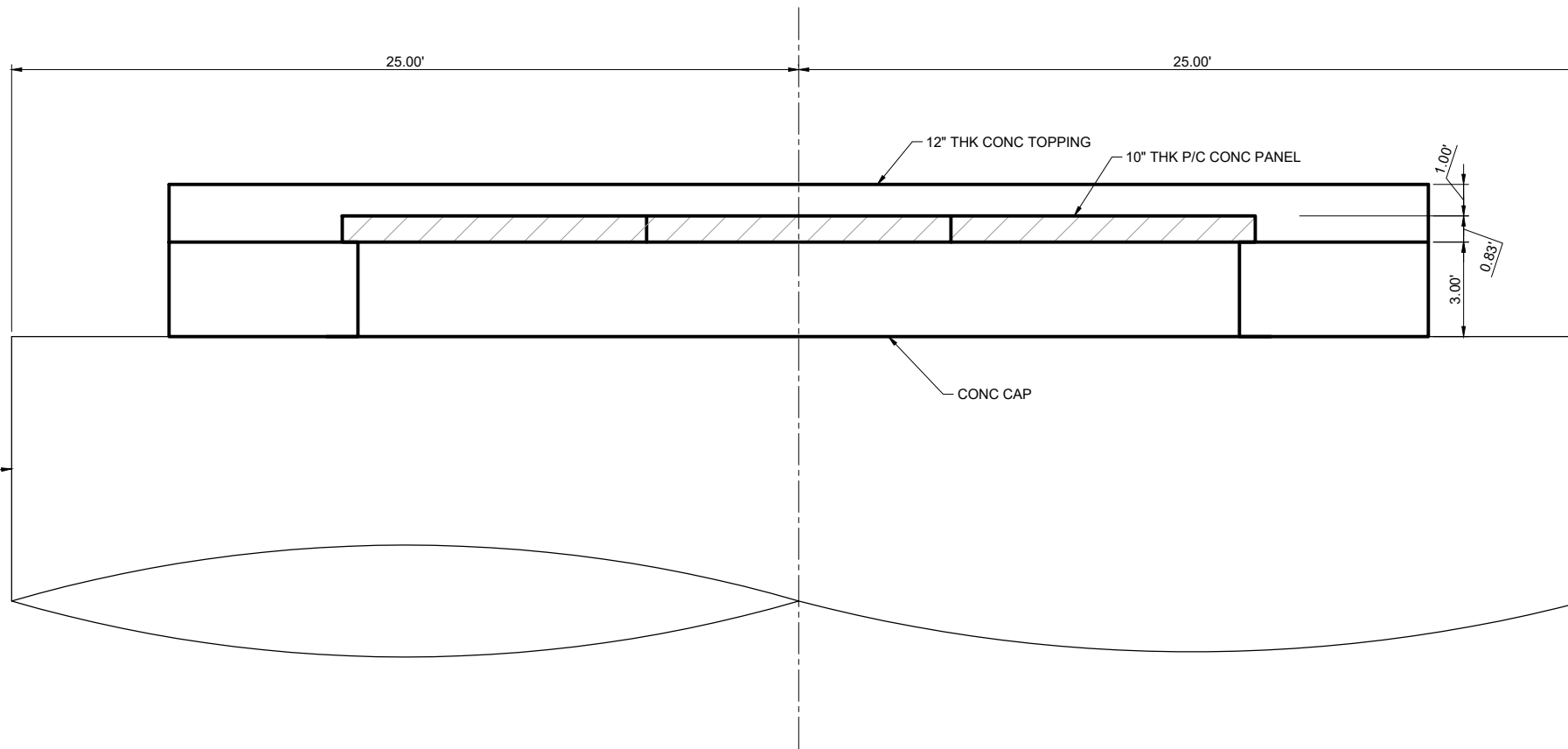
MOFFATT & NICHOL
101 W. MAIN ST. SUITE 3000
NORFOLK, VA 23510

SALMONS, INC.
781 PRINCESS ANNE RD
VIRGINIA BEACH, VA 23457

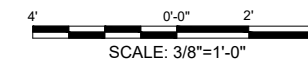
SEAL

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50'-0" Ø COFFERDAM CELL



MOORING DOLPHIN SECTION
SCALE: 3/8"=1'-0"



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PERMIT DRAWINGS FOR PROSPECT PIER

MOORING DOLPHIN DETAIL

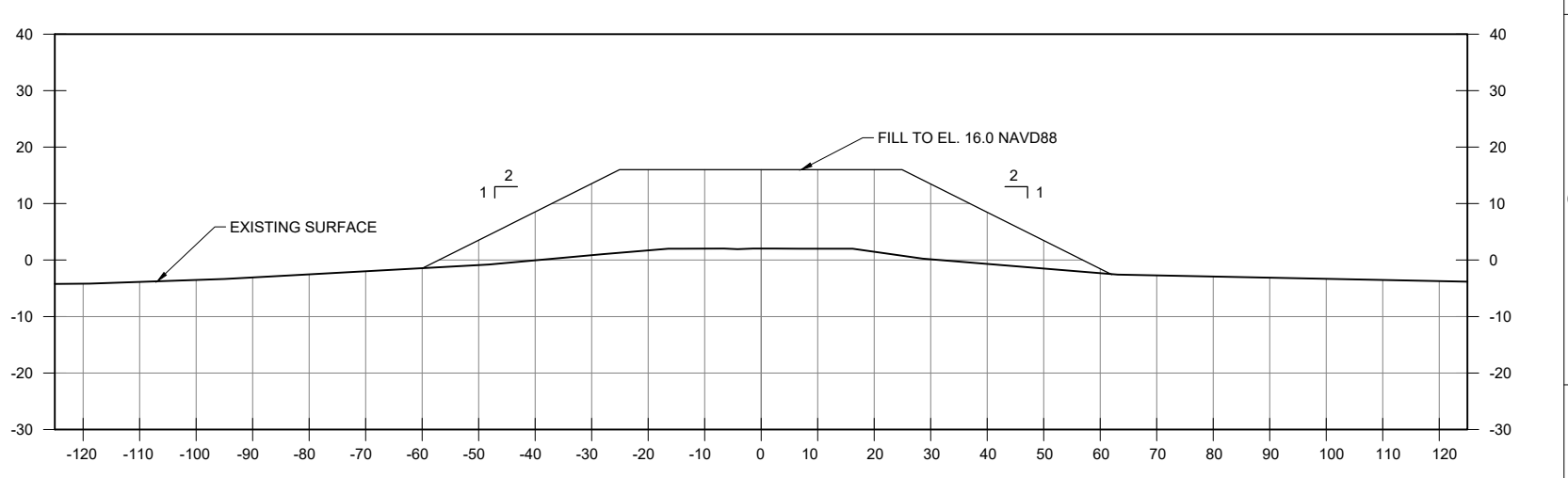
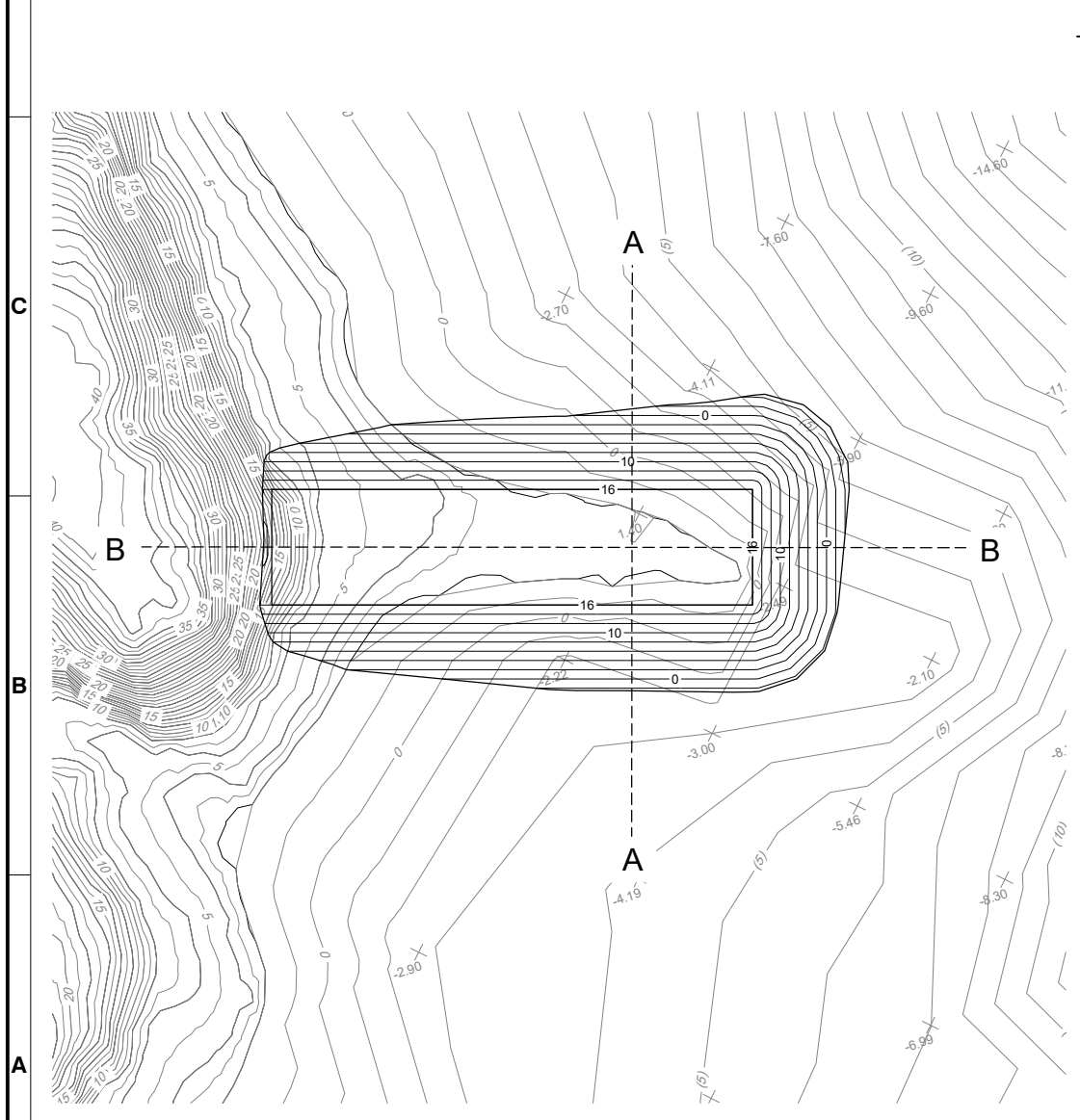
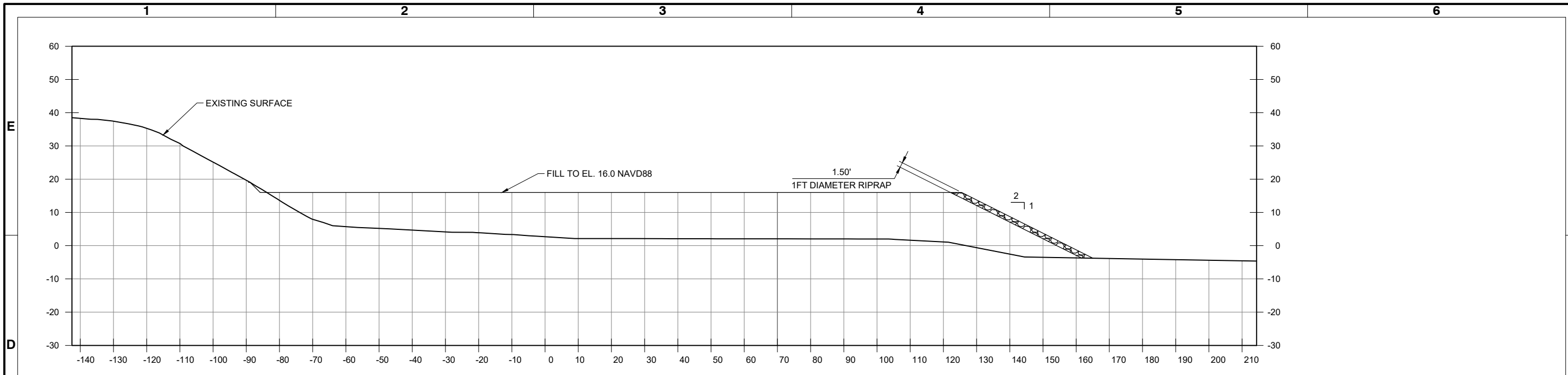
Designed by: IM	Date: 2/25/2021	Rev: ----
Drawn by: MSM	M&N Project No. 11120-01	Drawing code:
Checked by: BA	Drawing Scale: 1:1 (0 SHEET)	Per scale:
Reviewed by: SEJ	Submitted by: MOFFATT & NICHOL	Plot scale: 1:1 (0 SHEET)

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NORFOLK, VA 23510

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VIRGINIA BEACH, VA 23457

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S-302
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Rev.	Date	Author

PERMIT DRAWINGS FOR PROSPECT PIER
UPLAND FILL SECTION

Designed by: MSM	Checked by: MSM	Reviewed by: SEJ	Submitted by: MOFFATT & NICHOL
Date: 2/25/2021	MAN Project No. 11120-01	Drawing code:	Drawing Scale: Per scale: 1" (0 SHEET)

MOFFATT & NICHOL
101 W. MAIN ST. SUITE 3000
NORFOLK, VA 23510

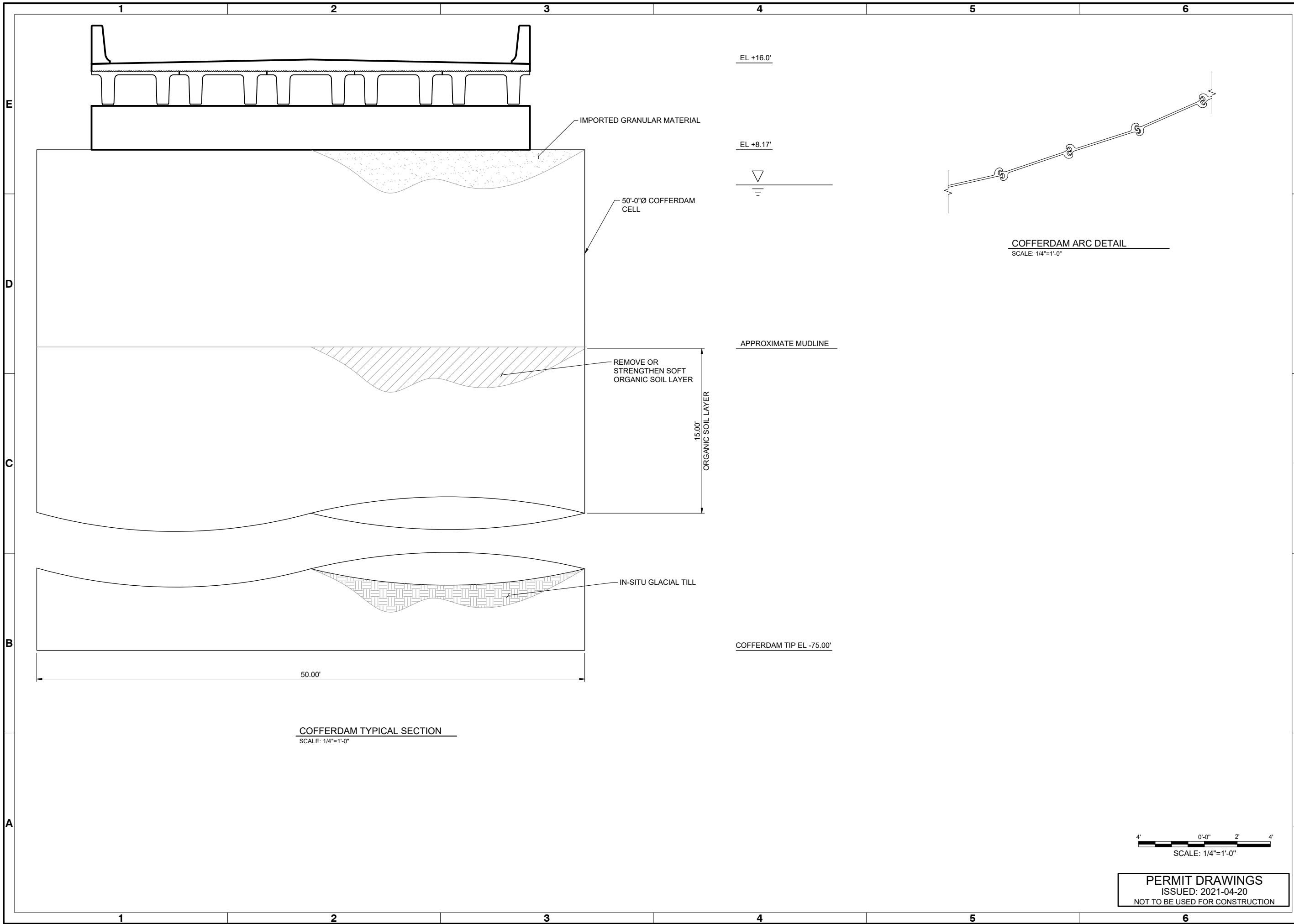
moftatt & nichol

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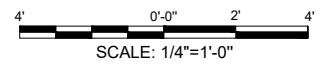
PERMIT DRAWINGS
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COFFERDAM TYPICAL SECTION
SCALE: 1/4"=1'-0"

COFFERDAM ARC DETAIL
SCALE: 1/4"=1'-0"



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PERMIT DRAWINGS FOR PROSPECT PIER

COFFERDAM DETAIL

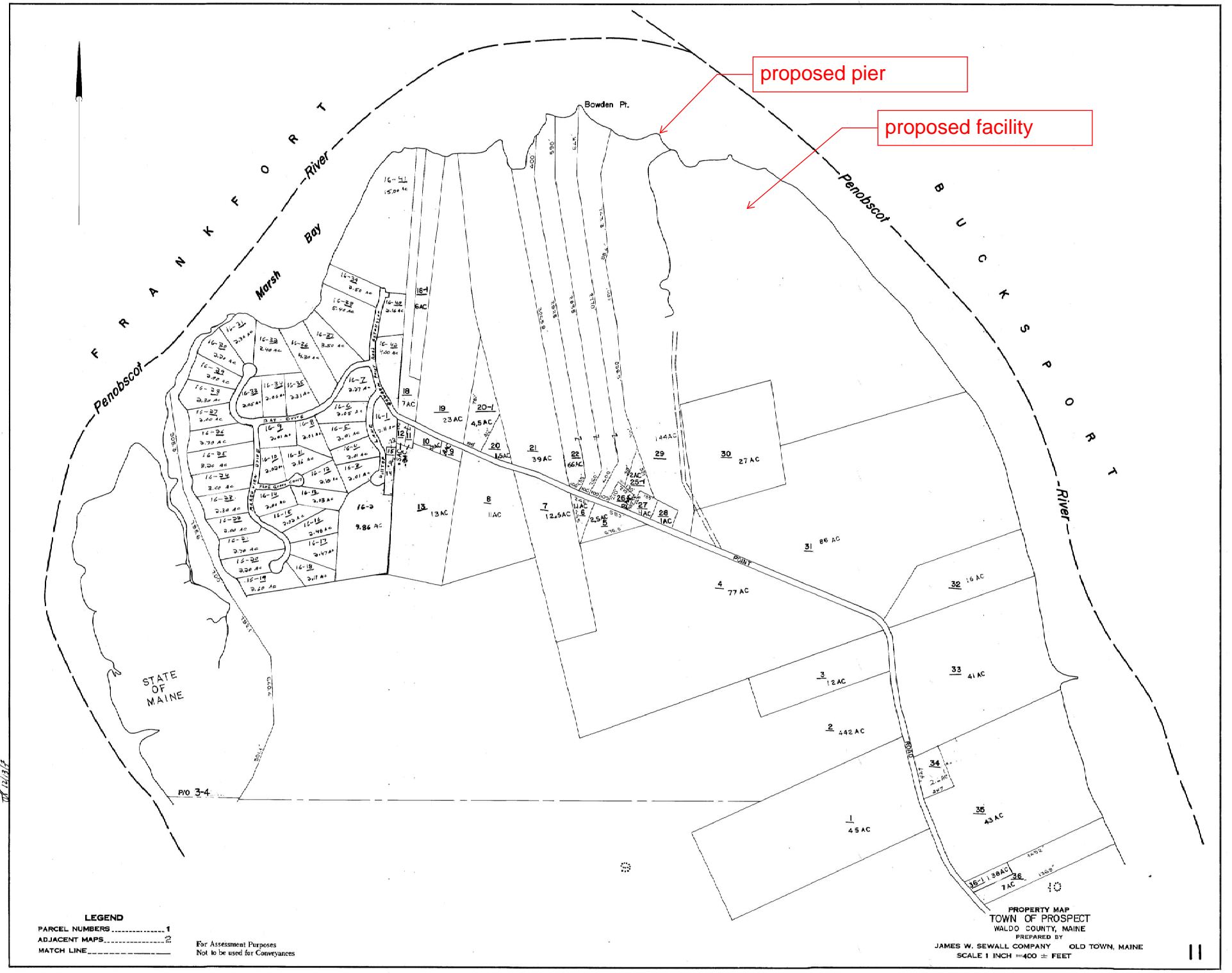
Designed by:	BS	Date:	2/25/2021
Drawn by:	MSM	MAN Project No.:	11120-01
Reviewed by:	SBJ	Drawing code:	
Submitted by:	MOFFATT & NICHOL	Drawing Scale:	1" = 10' (0 SHEET)

MOFFATT & NICHOL
101 W. MAIN ST. SUITE 3000
NORFOLK, VA 23510

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781 PRINCESS ANNE RD
VIRGINIA BEACH, VA 23457

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proposed pier

proposed facility

F R A N K F O R T
River

Penobscot B U C K S P O R T
River

STATE OF MAINE

LEGEND
 PARCEL NUMBERS 1
 ADJACENT MAPS 2
 MATCH LINE 3

For Assessment Purposes
 Not to be used for Conveyances

PROPERTY MAP
 TOWN OF PROSPECT
 WALDO COUNTY, MAINE
 PREPARED BY
 JAMES W. SEWALL COMPANY
 OLD TOWN, MAINE
 SCALE 1 INCH = 400 ± FEET