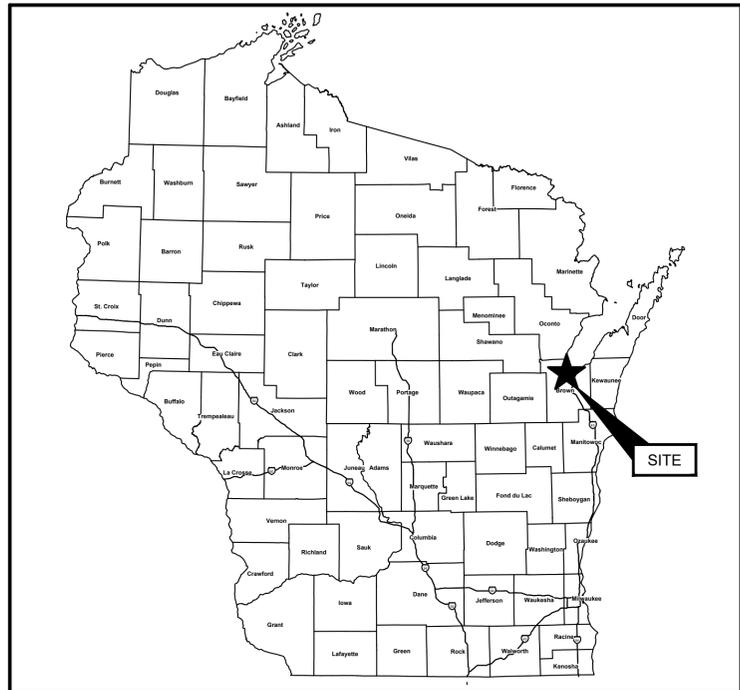
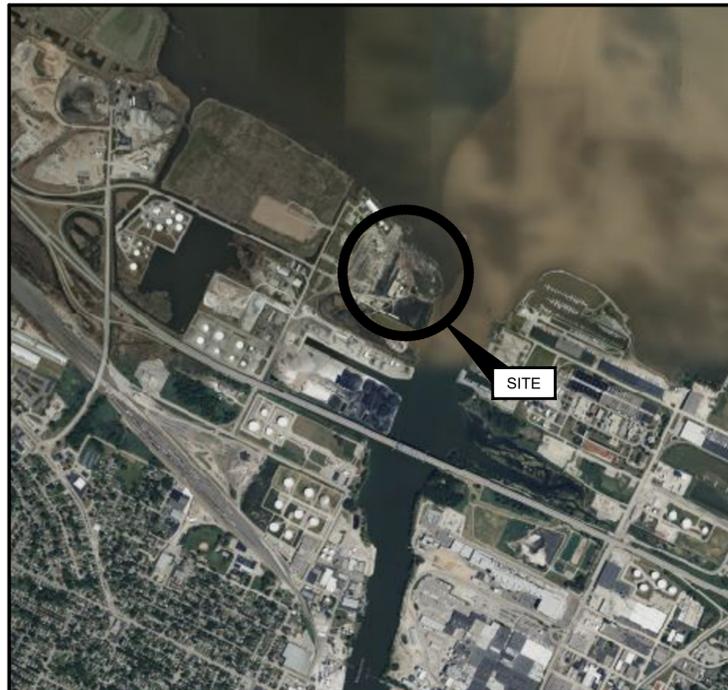


BROWN COUNTY PORT DEVELOPMENT PROJECT

1530 BYLSBY AVENUE
GREEN BAY, WISCONSIN



STATE MAP
(NOT TO SCALE)



SITE LOCATION MAP
(NOT TO SCALE)

SOURCE:
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UTILITIES AND INTERESTED PARTIES:

GREEN BAY WATER UTILITY 631 SOUTH ADAMS STREET, GREEN BAY, WI 54301 920-448-3480	WATER
NEW WATER 2231 N QUINCY STREET, GREEN BAY, WI 54302 920-432-4893	WASTEWATER
WISCONSIN PUBLIC SERVICE (WPS) 700 NORTH ADAMS STREET, GREEN BAY, WI 54307 800-450-7260	NATURAL GAS
WISCONSIN PUBLIC SERVICE (WPS) 700 NORTH ADAMS STREET, GREEN BAY, WI 54307 800-450-7260	ELECTRIC
AMERICAN TRANSMISSION CO 801 O KEEFE RD, DE PERE, WI 54115 (920) 338-6500	ELECTRIC
SPECTRUM 2350 S ONEIDA ST, GREEN BAY, WI 54304 833-949-0036	COMMUNICATIONS
AT&T 615 S MILITARY AVE, GREEN BAY, WI 54303 844-535-6390	COMMUNICATIONS
TDS TELECOM 789 S ONEIDA ST, ASHWAUBENON, WI 54304 866-571-6662	COMMUNICATIONS

GENERAL NOTES

IMPROVEMENTS COVERED IN THESE PLANS SHALL BE IN ACCORDANCE WITH THE WISCONSIN DEPARTMENT OF TRANSPORTATION 2025 STANDARD SPECIFICATIONS FOR CONSTRUCTION.

THE PLACEMENT OF PAVEMENT MARKINGS SHALL BE DONE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, 2011 EDITION, AS AMENDED.

IMPROVEMENTS COVERED SHALL BE IN ACCORDANCE WITH THE FOLLOWING STANDARDS: ACI 318, USS STEEL SHEET PILE DESIGN, AISC 14TH EDITION, FHWA GEC NO. 7, AND FHWA GEC NO. 4.

PREPARED FOR:

BROWN COUNTY, WI
PORT & RESOURCE RECOVERY
2561 BROADWAY ST
GREEN BAY, WI
(920)492-4950



PREPARED BY:

GEI CONSULTANTS, INC.
3159 VOYAGER DRIVE
GREEN BAY, WI 54311
(920)455-8200

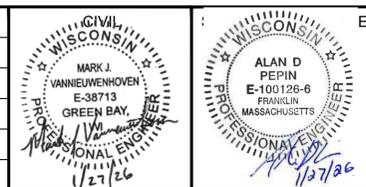


FOR CONSTRUCTION

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GEI PROJECT NO. 2201593

NO.	DATE	ISSUE/REVISION	APP
0	1/27/2026	ISSUED FOR CONSTRUCTION	MJV



DWG. NO.
G-100
SHEET NO.
1 OF 37

GENERAL NOTES:

- EXCEPT WHERE OTHERWISE INDICATED ON THESE PLANS OR IN THE PROPOSAL AND SUPPLEMENTAL SPECIFICATIONS CONTAINED THEREIN, ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, CURRENT VERSION, THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, AND THE BROWN COUNTY STANDARD SPECIFICATIONS.
- PROJECT COORDINATE SYSTEM: HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983 HIGH ACCURACY REFERENCE NETWORK (HARN). WISCONSIN COUNTY SYSTEMS: BROWN COUNTY, US FOOT (HARN/WI.BROWNWI-F). VERTICAL DATUM: NORTH AMERICA VERTICAL DATUM OF 1988 (NAVD88) NOTE: TO CONVERT FROM THE CHART DATUM (INTERNATIONAL GREAT LAKES DATUM OF 1985(IGLD85)) TO NAV88: IGLD85 + 0.44' = NAVD88.
- THE PROPOSED IMPROVEMENTS COVERED BY THESE PLANS ARE IN ACCORDANCE WITH THE AASHTO: A POLICY ON GEOMETRIC DESIGN OF ROADS AND STREETS, CURRENT VERSION OR PER THE CITY OF GREEN BAY STANDARD SPECIFICATION & CONSTRUCTION STANDARDS.
- ANY EXISTING UTILITIES, PAVEMENT, CURBS, SIDEWALKS, STRUCTURES, TREES, ETC., NOT PLANNED FOR DESTRUCTION OR REMOVAL THAT ARE DAMAGED OR REMOVED SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL VERIFY ALL DEPTHS AND LOCATIONS OF EXISTING UTILITIES PRIOR TO ANY CONSTRUCTION. ANY DISCREPANCIES WITH THE CONSTRUCTION PLANS FOUND IN THE FIELD SHALL BE BROUGHT IMMEDIATELY TO THE ATTENTION OF THE ENGINEER WHO SHALL BE RESPONSIBLE FOR REVISING THE PLANS AS APPROPRIATE. PLAN REVISIONS MAY NEED CITY COUNTY APPROVAL.
- MANHOLE FRAMES, COVERS, VALVES, CLEANOUTS, ETC. SHALL BE RAISED TO FINISHED GRADE PRIOR TO FINAL PAVING CONSTRUCTION PER WISCONSIN DEPARTMENT OF TRANSPORTATION STANDARD DETAILS.
- ALL AREAS DISTURBED OR THOSE EXPOSED DURING CONSTRUCTION SHALL BE RE-VEGETATED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS. RE-VEGETATION OF ALL DISTURBED OR EXPOSED AREAS SHALL CONSIST OF SODDING OR SEEDING, CONSISTENT WITH THE LANDSCAPING PLANS, AND APPROVED BY THE LANDSCAPE ARCHITECT. HOWEVER, THE TYPE OF RE-VEGETATION MUST EQUAL OR EXCEED THE TYPE OF VEGETATION PRESENT BEFORE CONSTRUCTION.
- PRIOR TO ANY CONSTRUCTION, A PRE-CONSTRUCTION CONFERENCE BETWEEN THE CITY OF GREEN BAY, THE DEVELOPER, THE CONTRACTOR, UTILITY COMPANIES, ANY AFFECTED PARTIES, AND ANY OTHER ENTITY THE CITY OR DEVELOPER MAY REQUIRE SHALL CONVENE.
- THE DEVELOPER OR HIS/HER DESIGNATED AGENT SHALL KEEP ACCURATE RECORDS OF ALL CONSTRUCTION THAT DEVIATES FROM THE PLANS. THE DEVELOPER OR HIS/HER DESIGNATED AGENT SHALL FURNISH THE CITY OF GREEN BAY, AND OWNER, ACCURATE "AS-BUILT" DRAWINGS FOLLOWING COMPLETION OF ALL CONSTRUCTION. THESE "AS-BUILT" DRAWINGS SHALL MEET WITH THE SATISFACTION OF THE OWNER, PRIOR TO FINAL ACCEPTANCE. FINAL "AS- BUILTS" DRAWINGS SHALL BE DELIVERED TO THE COUNTY IN PAPER FORM AND IN CAD .DWG FORM.
- THE CITY OF GREEN BAY CITY COMMISSION SHALL NOT BE PETITIONED FOR ACCEPTANCE UNTIL ALL NECESSARY EASEMENT AND/OR RIGHT OF WAY DEED DOCUMENTS HAVE BEEN SIGNED AND RECORDED, AND ALL MATERIALS, PIPING, STRUCTURES HAVE BEEN INSPECTED AND TESTED TO THE CITY ENGINEER'S APPROVAL.
- ALL UTILITY CONSTRUCTION WORK TO BE ACCEPTED BY THE CITY OF GREEN BAY INTO THEIR UTILITY SYSTEM AND ALL WORK IN PUBLIC RIGHTS OF WAY OR EASEMENTS MUST BE DONE IN ACCORDANCE WITH WISCONSIN DEPARTMENT OF TRANSPORTATION AND CITY OF GREEN BAY STANDARDS AND SPECIFICATIONS.
- WHEN CONSTRUCTION IS BEING CARRIED OUT WITHIN EASEMENTS, THE CONTRACTOR SHALL CONFINE HIS/HER WORK TO WITHIN THE PERMANENT AND ANY TEMPORARY EASEMENTS. PRIOR TO FINAL ACCEPTANCE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL TRASH AND DEBRIS WITHIN THE PERMANENT AND TEMPORARY EASEMENTS. CLEAN-UP SHALL BE TO THE SATISFACTION OF THE ENGINEER.
- PRIOR TO ANY CONSTRUCTION, THE OWNER OR HIS/HER DESIGNATED AGENT SHALL APPLY FOR AND SECURE ALL PROPER PERMITS FROM THE APPROPRIATE AUTHORITIES, SUCH AS, BUT NOT LIMITED TO, THE CITY OF GREEN BAY, WISCONSIN DEPARTMENT OF NATURAL RESOURCES, BROWN COUNTY, ETC. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY CONSTRUCTION PERMITS, SUCH AS, BUT NOT LIMITED TO, RIGHT-OF-WAY CONSTRUCTION ACCESS, SOIL EROSION AND SEDIMENT CONTROL, AND ANY ADDITIONAL PERMITS NECESSARY TO COMPLETE THE PROJECT IN ITS ENTIRETY.

PROJECT SAFETY NOTES:

- PROJECT SAFETY SHALL BE IN ACCORDANCE WITH THE LAWS OF THE STATE OF WISCONSIN AND THE WISCONSIN OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION'S CURRENT REGULATIONS.

WATER AND WASTEWATER NOTES:

- THE CONTRACTOR SHALL CONTACT THE CITY ENGINEER TO COORDINATE UTILITY MAIN, STRUCTURE, AND UTILITY TIE-INS AND NOTIFY HIM/HER AT LEAST 48 HOURS PRIOR FOR INSPECTION SERVICES.
- ALL WATER AND WASTEWATER TAPS INTO THE CITY OF GREEN BAY PUBLIC SYSTEM SHALL BE DONE BY THE CITY OF GREEN BAY PUBLIC WORKS DEPARTMENT. A MINIMUM OF 72 HOURS NOTICE WILL BE GIVEN TO THE DEPARTMENT FOR WORK REQUIRED FOR TAPPING ACTIVITIES. PERMITS ARE REQUIRED FROM THE CITY OF GREEN BAY ENGINEERING DEPARTMENT FOR WATER, WASTEWATER, AND STORM WATER TAPS INTO THE PUBLIC SYSTEM.
- THE CONTRACTOR MUST OBTAIN A WATER METER FROM THE CITY OF GREEN BAY PUBLIC WORKS DEPARTMENT FOR ALL PUBLIC WATER USED DURING CONSTRUCTION.
- THE CONTRACTOR, AT HIS EXPENSE, SHALL PERFORM QUALITY TESTING FOR ALL WASTEWATER PIPE INSTALLED AND PRESSURE PIPE HYDROSTATIC TESTING OF ALL WATER LINES CONSTRUCTED AND SHALL PROVIDE ALL EQUIPMENT (INCLUDING PUMPS AND GAUGES), SUPPLIES AND LABOR NECESSARY TO PERFORM THE TESTS PER CITY OF GREEN BAY SPECIFICATION REQUIREMENTS. QUALITY AND PRESSURE TESTING SHALL BE MONITORED BY THE INSPECTOR FROM THE CITY OF GREEN BAY ENGINEERING DEPARTMENT.
- THE CONTRACTOR SHALL COORDINATE TESTING WITH THE CITY INSPECTOR AND PROVIDE NO LESS THAN 24 HOURS NOTICE PRIOR TO PERFORMING DISINFECTION, QUALITY TESTING OR PRESSURE TESTING.
- THE CONTRACTOR SHALL NOT OPEN OR CLOSE ANY VALVES ON THE PUBLIC SYSTEM. VALVE OPERATION MUST BE COORDINATED WITH THE CITY OF GREEN BAY PUBLIC WORKS DEPARTMENT.
- FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 53, THE CONTRACTOR SHALL NOTIFY MISS DIG A MINIMUM OF THREE FULL WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS PRIOR TO BEGINNING EACH EXCAVATION. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE ADJOINING PROPERTY OWNER TO LOCATE PRIVATE UTILITIES THAT MAY BE PLACED NOT ONLY ON PRIVATE PROPERTY BUT ON PUBLIC PROPERTY.

TRAFFIC CONTROL NOTES:

- ANY METHODS, STREET MARKINGS AND SIGNAGE NECESSARY FOR WARNING MOTORISTS, WARNING PEDESTRIANS OR DIVERTING TRAFFIC DURING CONSTRUCTION SHALL CONFORM TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, LATEST EDITION.
- ALL PAVEMENT MARKINGS, MARKERS, PAINT, TRAFFIC BUTTONS, TRAFFIC CONTROLS AND SIGNS SHALL BE INSTALLED IN ACCORDANCE WITH THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR FOR HIGHWAY AND STRUCTURE CONSTRUCTION, AND,THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, LATEST EDITIONS.
- ALL PUBLIC STREETS THAT ARE TO BE CLOSED OR INTERRUPTED DUE TO THE CONSTRUCTION ACTIVITIES WILL REQUIRE ORDINATION WITH THE CITY OF GREEN BAY ENGINEERING DEPARTMENT FOR A PUBLIC SERVICE ANNOUNCEMENT. A MINIMUM OF 72 HOURS NOTICE WILL BE GIVEN TO THE CITY ENGINEERING DEPARTMENT FOR SAID CLOSURES OR INTERRUPTIONS.
- PARKING RESTRICTIONS MUST BE POSTED 24 HOURS BEFORE WORK STARTS AND WILL BE AT THE EXPENSE OF THE CONTRACTOR. CONTACT THE POLICE DEPARTMENT AND PUBLIC WORKS DEPARTMENT WHEN RESTRICTIONS ARE PLACED.
- THE HOURS OF CONSTRUCTION OPERATIONS WILL FOLLOW THE NOISE RESTRICTIONS AS BE PER THE CITY OF GREEN BAY NUISANCE CODE AND AS SPECIFIED IN THE CITY OF GREEN BAY STANDARD CONSTRUCTION SPECIFICATIONS.

EROSION AND SEDIMENTATION CONTROL NOTES:

- EROSION CONTROL MEASURES, SITE WORK AND RESTORATION WORK SHALL BE IN ACCORDANCE WITH THE WISCONSIN DEPARTMENT OF NATURAL RESOURCES ENVIRONMENTAL PROTECTION BEST MANAGEMENT PRACTICES.
- ALL SLOPES SHALL BE SODDED OR SEEDDED PER LANDSCAPE PLAN WITH APPROVED GRASS, GRASS MIXTURES OR GROUND COVER SUITABLE TO THE AREA AND SEASON IN WHICH THEY ARE APPLIED.
- SILT FENCES, ROCK BERMS, SEDIMENTATION BASINS AND SIMILARLY RECOGNIZED TECHNIQUES AND MATERIALS SHALL BE EMPLOYED DURING CONSTRUCTION TO PREVENT POINT SOURCE SEDIMENTATION LOADING OF DOWNSTREAM FACILITIES. SUCH INSTALLATION SHALL BE REGULARLY INSPECTED BY THE CONTRACTORS CERTIFIED STORM WATER OPERATOR FOR EFFECTIVENESS. ADDITIONAL MEASURES MAY BE REQUIRED IF, IN THE OPINION OF THE CITY OF GREEN BAY'S HYDROLOGY ENGINEER OR FIELD REPRESENTATIVE, THEY ARE WARRANTED.
- ALL MUD, DIRT, ROCKS, DEBRIS, ETC., SPILLED, TRACKED OR OTHERWISE DEPOSITED ON EXISTING PAVED STREETS, DRIVES AND AREAS USED BY THE PUBLIC SHALL BE CLEANED UP IMMEDIATELY.

STREET AND DRAINAGE NOTES:

- ALL FIELD TESTING SHALL BE DONE BY AN INDEPENDENT LABORATORY AT THE OWNER'S EXPENSE. ANY RETESTING SHALL BE PAID FOR BY THE CONTRACTOR. A CITY INSPECTOR SHALL BE PRESENT DURING ALL TESTS OF ITEMS TO BE INCORPORATED INTO THE CITY UTILITY SYSTEMS. TESTING SHALL BE COORDINATED WITH THE CITY'S INSPECTOR AND HE/SHE SHALL BE GIVEN A MINIMUM OF 24 HOURS NOTICE PRIOR TO ANY TESTING.
- DEPTH OF COVER FOR ALL CROSSINGS UNDER PAVEMENT FOR GAS, ELECTRIC, TELEPHONE, AND CABLE TV, SHALL BE A MINIMUM OF 30".
- STREET RIGHTS-OF-WAY SHALL BE GRADED AT A SLOPE TO PROVIDE POSITIVE DRAINAGE TOWARD THE CURB UNLESS OTHERWISE INDICATED DUE TO SPECIAL CIRCUMSTANCES.



BROWN COUNTY
PORT & RESOURCE
RECOVERY
GREEN BAY, WI

PORT PROPERTY
DEVELOPMENT
PORT & RESOURCE RECOVERY
2561 BROADWAY ST
GREEN BAY, WI



P.E. No.:	
Approved:	MJV
Checked:	GMM
Drawn:	LMR
Designed:	INR
GEI Project	2201593

Attention: 1"
0 1"
If this scale bar does not measure 1" then drawing is not original scale.

0	1/27/2026	FOR CONSTRUCTION	MJV
NO.	DATE	ISSUE/REVISION	APP

SHEET NAME

GENERAL NOTES

SHEET NO.
G-110

FOR CONSTRUCTION

SYMBOLS

LINE TYPES

DRAWING NUMBER DESIGNATION

WATER SUPPLY SYSTEM			COMMUNICATION		
EXISTING	PROPOSED	DESCRIPTION	EXISTING	PROPOSED	DESCRIPTION
		FIRE HYDRANT			CABLE PEDESTAL
		U.G. WATER VALVE			FIBER PEDESTAL
		CURB STOP & BOX			TELEPHONE PEDESTAL
					MANHOLE FIBER
					MANHOLE TELEPHONE

SANITARY SEWER SYSTEM			NATURAL GAS		
EXISTING	PROPOSED	DESCRIPTION	EXISTING	PROPOSED	DESCRIPTION
		MANHOLE CLEANOUT			NATURAL GAS METER
		MANHOLE SANITARY			UG NATURAL GAS VALVE

DRAINAGE UTILITIES			MISCELLANEOUS		
EXISTING	PROPOSED	DESCRIPTION	EXISTING	PROPOSED	DESCRIPTION
		CATCH BASIN (BEEHIVE)			GUARD POST/BOLLARD
		CATCH BASIN (ROUND)			SIGN POST
		CATCH BASIN (CURB INLET)			EROSION BALES
		MANHOLE STORM			ACCESSIBLE PARKING
		END SECTION			PK NAIL
		INVERT ELEVATION			PROPERTY CORNER

ELECTRICAL POWER			MISCELLANEOUS		
EXISTING	PROPOSED	DESCRIPTION	EXISTING	PROPOSED	DESCRIPTION
		ELECTICAL PEDESTAL			MONITORING WELL
		GUY POLE			SOIL BORING
		GUY ANCHOR			DECIDUOUS TREE
		LIGHT POLE			CONIFEROUS TREE
		MANHOLE ELECTRIC			
		POWER-LIGHT POLE			
		POWER POLE			
		LIGHT			
		POWER TRANSFORMER			

HATCH LEGEND

MATERIAL DESCRIPTION	EXISTING PATTERN	NEW PROPOSED PATTERN	MATERIAL DESCRIPTION	EXISTING PATTERN	NEW PROPOSED PATTERN
WETLAND			DEMOLITION		
CONCRETE			HMA, HEAVY DUTY		
BUILDING OUTLINE			HMA, STANDARD DUTY		
GRAVEL/UNPAVED			GRASS/SOD		
SAND			RIPRAP		
SEDIMENT CAP					

WATER SUPPLY SYSTEM		
EXISTING	PROPOSED	DESCRIPTION
		UG WATER SERVICE
		UG WATERMAIN

SANITARY SEWER SYSTEM		
EXISTING	PROPOSED	DESCRIPTION
		UG SANITARY SEWER MAIN

DRAINAGE UTILITIES		
EXISTING	PROPOSED	DESCRIPTION
		UG STORM MAIN
		DRAINAGE AREA BOUNDARY

EROSION CONTROL		
EXISTING	PROPOSED	DESCRIPTION
		SILT FENCE

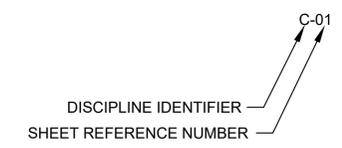
ELECTRICAL POWER		
EXISTING	PROPOSED	DESCRIPTION
		UG ELECTRICAL
		OVERHEAD ELECTRICAL

NATURAL GAS		
EXISTING	PROPOSED	DESCRIPTION
		UG NATURAL GAS

COMMUNICATION		
EXISTING	PROPOSED	DESCRIPTION
		UG COMMUNICATIONS
		OVERHEAD COMMUNICATIONS
		UG CABLE TV
		OVERHEAD CABLE TV
		UG FIBER OPTIC

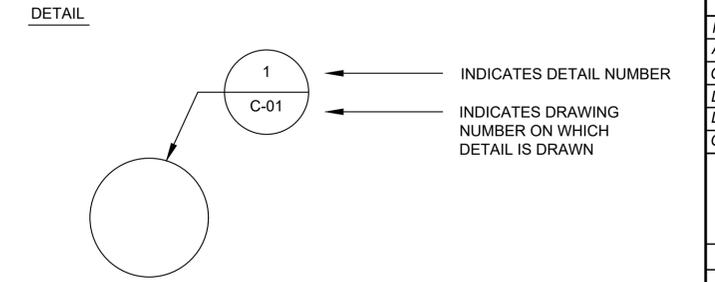
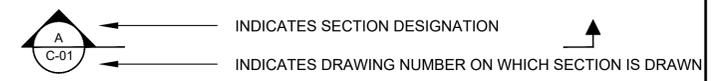
TOPOGRAPHY		
EXISTING	PROPOSED	DESCRIPTION
		MAJOR CONTOUR
		MINOR CONTOUR

MISCELLANEOUS		
EXISTING	PROPOSED	DESCRIPTION
		UNDERGROUND STRUCTURE
		UTILITY REMOVAL
		FENCE LINE
		TREE LINE
		LIMITS OF CONSTRUCTION
		RIGHT-OF-WAY
		PARCEL LINE
		PROPERTY LINE
		PROPERTY SETBACK
		CONTAMINATION PLUME
		SHORELINE
		CONTAMINATION PLUME BUFFER
		LIMIT OF WORK



DISCIPLINE	DISCIPLINE IDENTIFIER
GENERAL	G
KEY PLAN	K
INSTRUMENTATION	I
REMOVAL	R
CIVIL	C
STRUCTURAL	S
STRUCTURAL MARINE	SM
ARCHITECTURAL	A
MECHANICAL/PROCESS	M
ELECTRICAL	E
PLUMBING	P
DETAILS	D

SECTION LEGEND

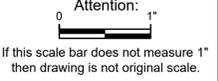


**BROWN COUNTY
PORT & RESOURCE
RECOVERY
GREEN BAY, WI**

**PORT PROPERTY
DEVELOPMENT**
PORT & RESOURCE RECOVERY
2561 BROADWAY ST
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P.E. No.:	
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GEI Project	2201593



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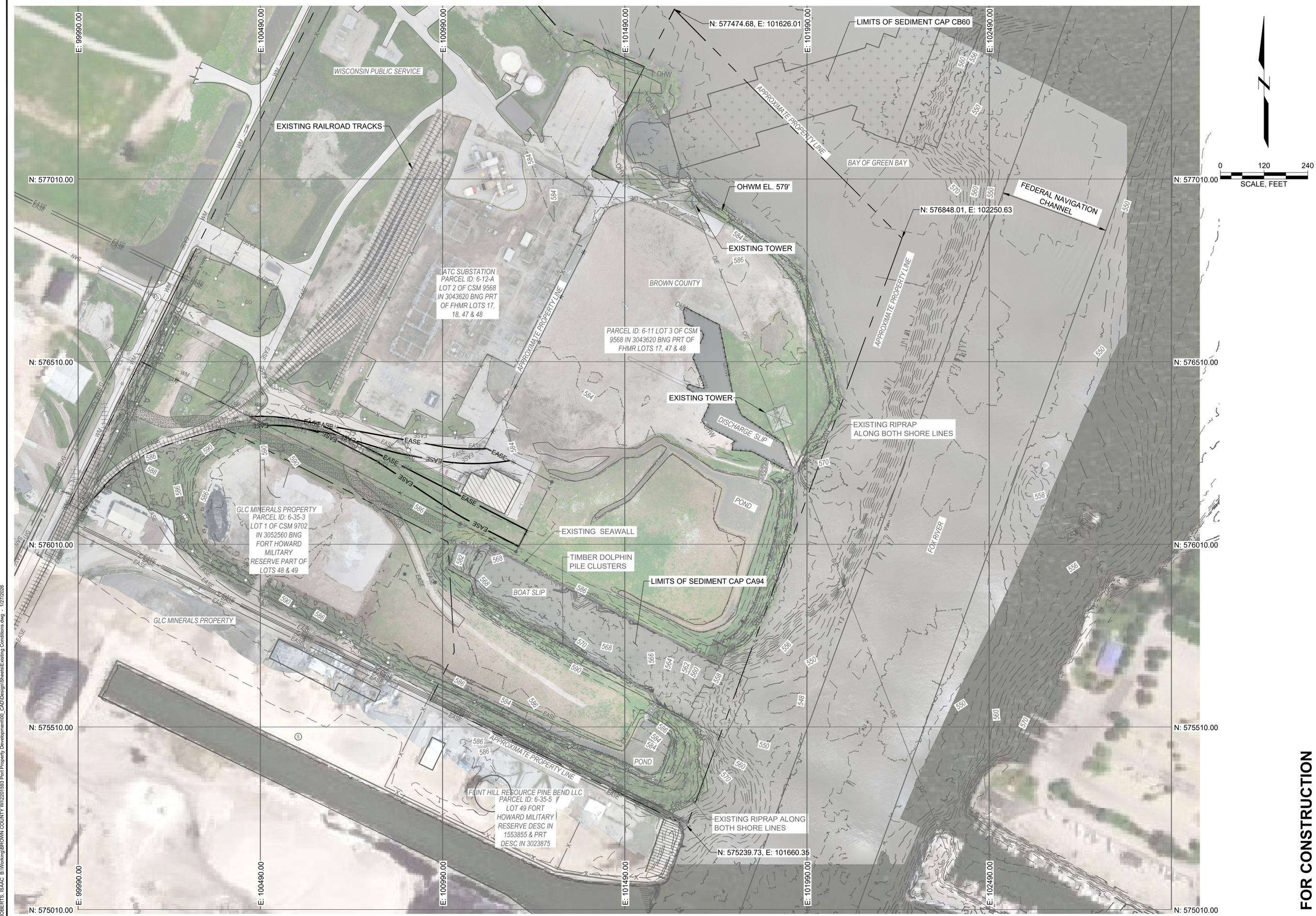
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LEGEND

SHEET NO.

G-120

FOR CONSTRUCTION



P.E. No.:

Approved:	MJV
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Designed:	INR
GEI Project:	2201593

Attention: 1"
 0 120 240
 SCALE, FEET

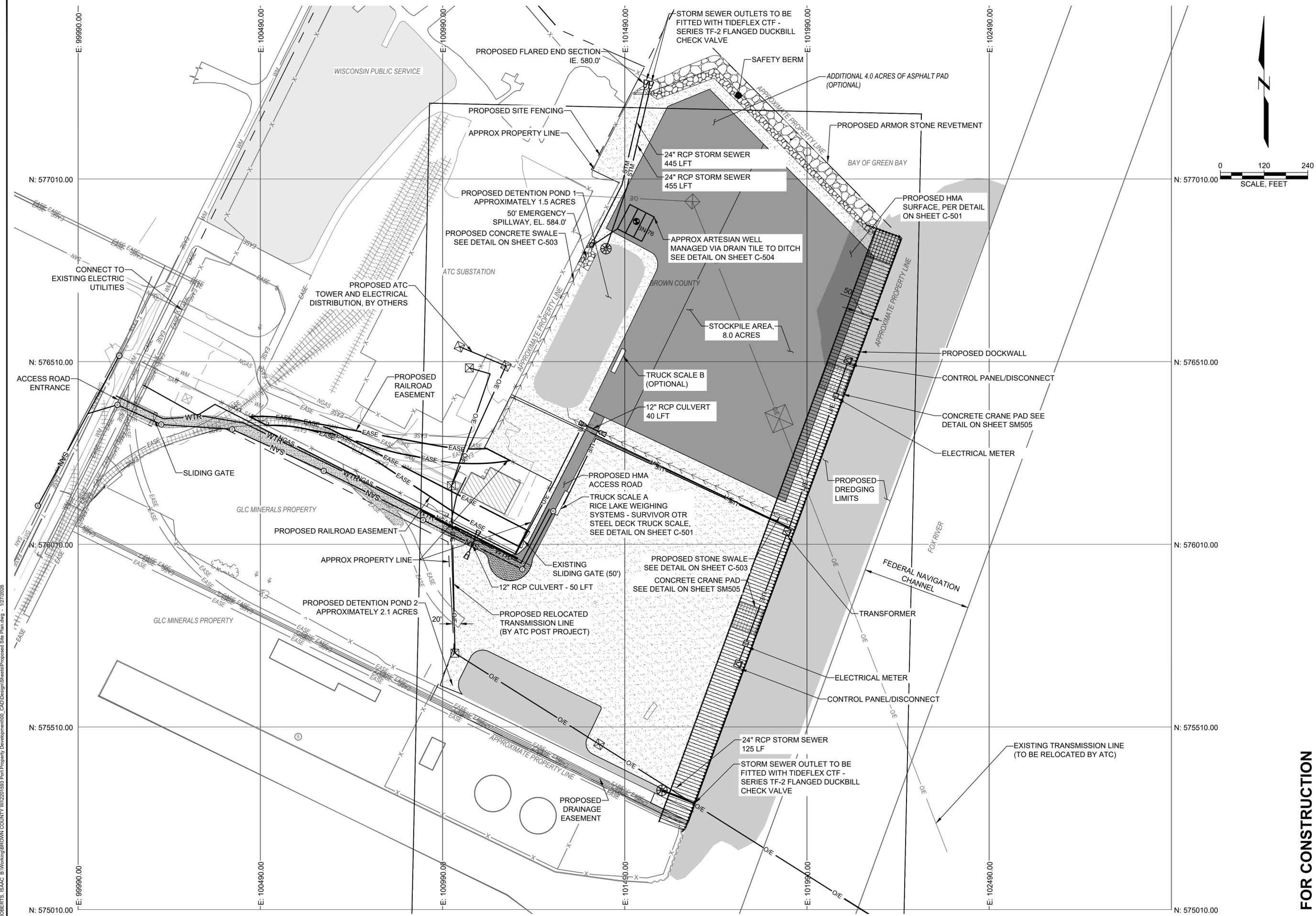
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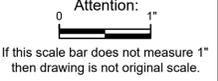
SHEET NAME	EXISTING CONDITIONS
SHEET NO.	C-100

FOR CONSTRUCTION

ROBERTS, ISAAC, B:\Working\BROWN COUNTY\W2201593 Port Property Development\100_CAD\Design\Sheet\Existing Conditions.dwg - 1/27/2026

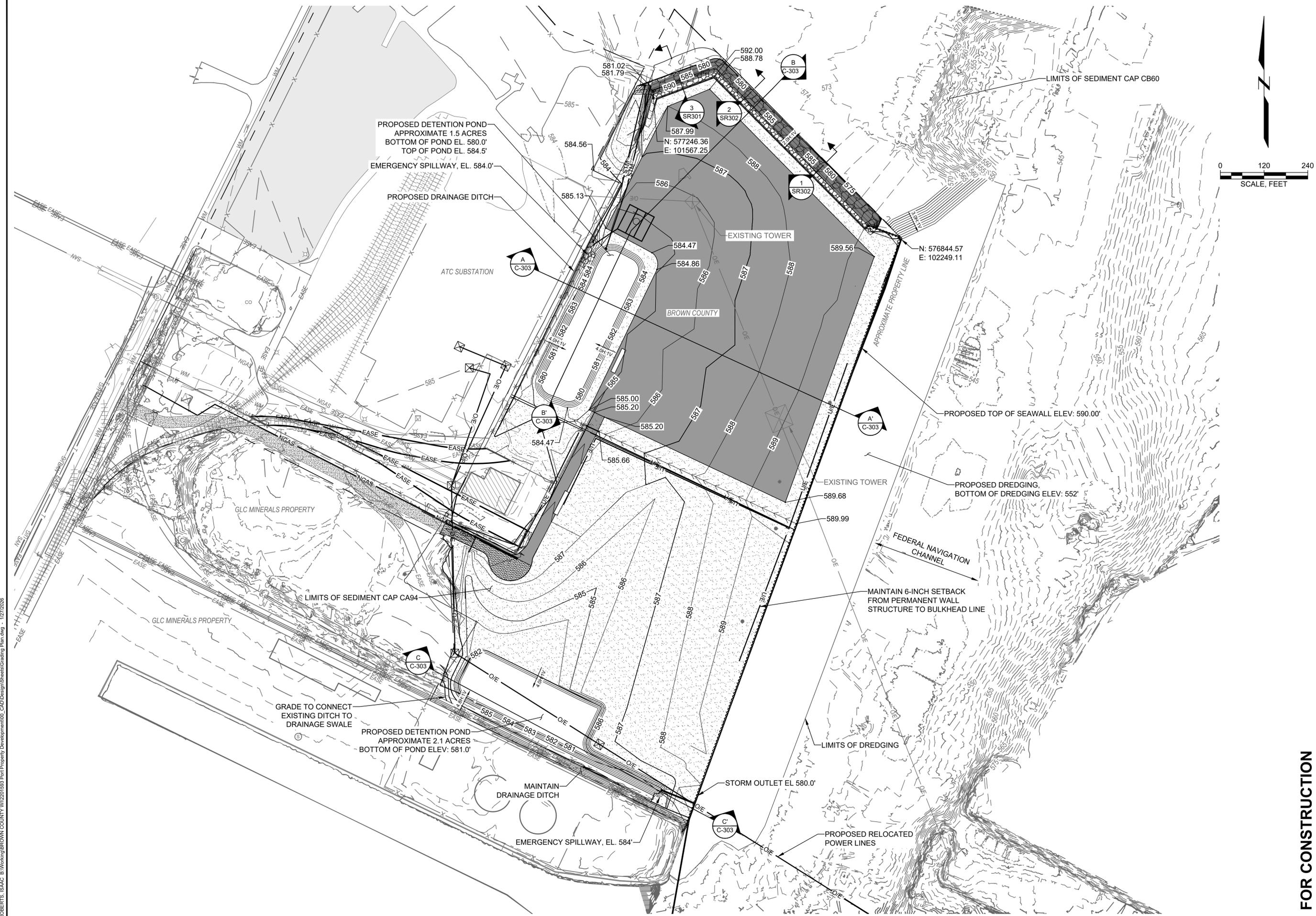


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 Designed: INR
 GEI Project 2201593



NO.	DATE	ISSUE/REVISION	APP
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ROBERTS, ISAAC, B:\Working\BROWN COUNTY\W2201593 Port Property Development\00_CAD\Design\Sheets\Proposed Site Plan.dwg - 1/27/2026



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Attention: 1"
 0 120 240
 SCALE, FEET

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SHEET NAME
GRADING PLAN

SHEET NO.
C-130

ROBERTS, ISAAC, B. Working BROWN COUNTY W12201593 Port Property Development100_CAD Design/Sheet/Grading Plan.dwg - 1/27/2026

FOR CONSTRUCTION



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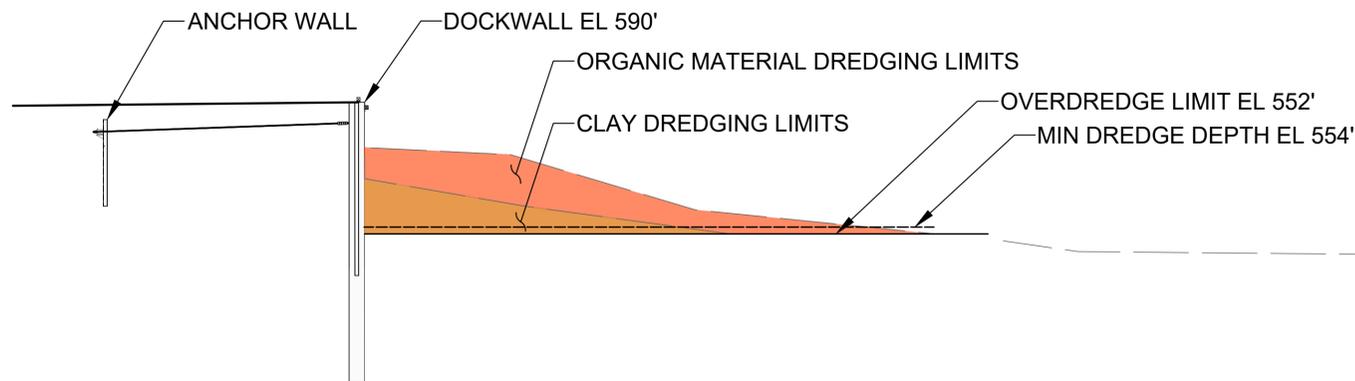
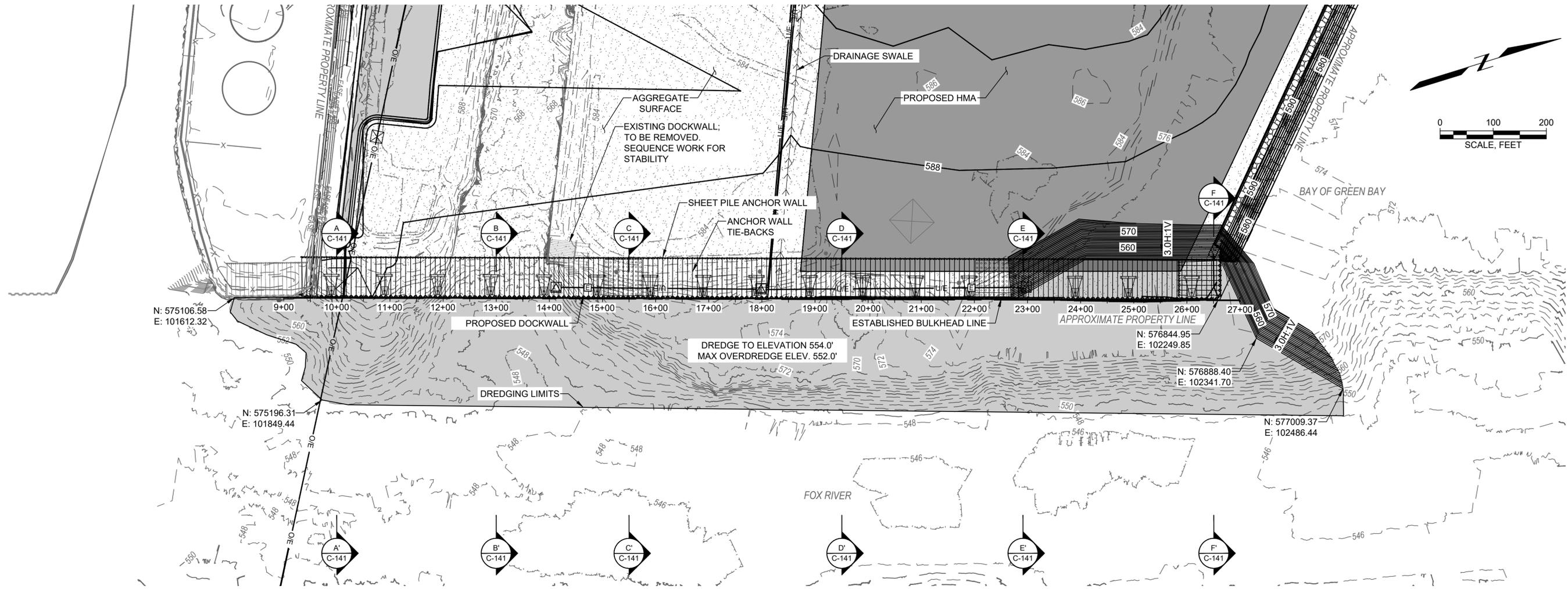
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SHEET NAME

**PROPOSED
 DREDGING
 PLAN**

SHEET NO.

C-140



DREDGING QUANTITIES

QUANTITY	DESCRIPTION
219,281 CYDS	TOTAL EXCAVATION/CUT
117,751 CYDS	ORGANIC MATERIAL
101,530 CYDS	CLAY

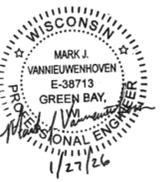
TYPICAL SECTION

NO SCALE

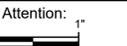
NOTES

- CONTRACTOR SHALL SEQUENCE DOCK WALL CONSTRUCTION WITH DREDGING TO ENSURE NO DREDGING OUTSIDE LIMITS AUTHORIZED IN REGULATORY APPROVALS AND FULL COMPLIANCE WITH DOCK WALL DREDGING/FILLING SEQUENCING CONSTRAINTS AS SHOWN IN THE CONTRACT DOCUMENTS.
- NO DOCK WALL CONSTRUCTION AND/OR DREDGING SHALL TAKE PLACE UNTIL A PROJECT SEQUENCING PLAN HAS BEEN SUBMITTED BY THE CONTRACTOR AND APPROVED BY THE OWNER.
- CONTRACTOR SHALL INSTALL AND MAINTAIN TURBIDITY CONTROLS THROUGHOUT CONSTRUCTION.
- CONTRACTOR SHALL SEQUENCE ALL WORK INCLUDING DEMOLITION TO MAINTAIN STABILITY OF EXISTING STRUCTURES AND SHORELINE. ALL DEMOLITION MATERIAL AND DEBRIS SHALL BE SEGREGATED AND KEPT SEPARATE FROM DREDGE MATERIAL.
- ON SITE PROJECT BENCHMARK SHALL BE AGREED PRIOR TO ANY SURVEYS AND DREDGING. ALL SURVEYS AND DREDGING SHALL USE AGREED SITE BENCHMARK. THE CONTRACTOR SHALL PROTECT AND MAINTAIN THE AGREED PROJECT BENCHMARK.
- ALL DREDGED ORGANIC MATERIAL (EXCEPT DEBRIS) SHOWN ON THIS SHEET SHALL BE DISPOSED AT THE BAYPORT DISPOSAL SITE.
- ORGANIC MATERIAL SHALL BE REMOVED WITH A TOOTHLESS BUCKET COMPLYING WITH THE REGULATORY APPROVALS AND THE APPROVED TURBIDITY CONTROL PLAN. ORGANIC MATERIAL SHALL BE REMOVED TO THE DEPTHS SHOWN ON THE CONTRACT DOCUMENTS UNLESS AGREED OTHERWISE WITH THE OWNER. CONTRACTOR SHALL NOTE THAT ENGINEER MAY ADJUST FINISHED CUT ELEVATIONS FOR ORGANIC MATERIAL AS THE WORK PROGRESSES BASED ON MATERIALS FOUND ON SITE.
- CONTRACTOR SHALL PROVIDE VERIFICATION SURVEY SHOWING REMOVAL OF ALL ORGANIC MATERIAL TO DEPTHS SHOWN ON THE CONTRACT DRAWINGS PRIOR TO COMMENCING DEEPER DREDGING UNLESS APPROVED OR DIRECTED OTHERWISE BY THE ENGINEER.
- CLAY MATERIAL SHALL BE PROCESSED AS REQUIRED IN THE CONTRACT DOCUMENTS AND USED ON SITE AS ENGINEERED FILL UNLESS APPROVED OTHERWISE BY THE OWNER.
- CONTRACTOR SHALL NOTE THAT THE PAYMENT LIMIT IS EL 552' AS SHOWN ON THE CONTRACT DOCUMENTS. MINIMUM SHOALING DEPTH SHALL BE 2' ABOVE THE PAYMENT LIMITS AT EL. 554'.
- ALL DEBRIS SHALL BE SEGREGATED FOR DISPOSAL IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- CONTRACTOR SHALL AVOID ANY IMPACTS ON NAVIGATION.
- CONTRACTOR SHALL PROTECT THE EXISTING WHARF STRUCTURES AND ALL ANCILLARY STRUCTURES FROM DAMAGE DURING THE PROJECT. ANY DAMAGE SHALL BE REPAIRED AT NO ADDITIONAL COST TO THE AUTHORITY.
- CONTRACTOR SHALL TAKE SPECIAL CARE TO AVOID OVERDREDGE BELOW THE PAYMENT LIMITS CLOSE TO THE DOCK WALL. THE OWNER MAY REQUIRE THE CONTRACTOR TO FILL OVERDREDGE BELOW THE PAYMENT LIMITS WITHIN 40 FEET OF THE FACE OF THE DOCK WALL WITH CRUSHED STONE AT NO ADDITIONAL COST TO THE OWNER.

FOR CONSTRUCTION



P.E. No.:
 Approved: MJV
 Checked: GMM
 Drawn: LMR
 Designed: INR
 GEI Project 2201593



If this scale bar does not measure 1'
 then drawing is not original scale.

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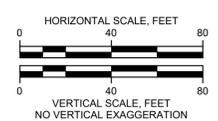
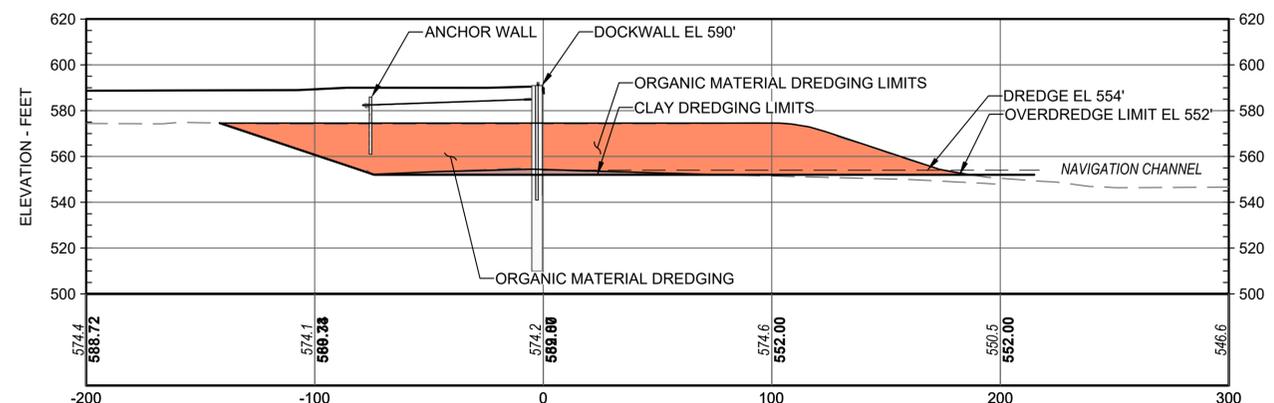
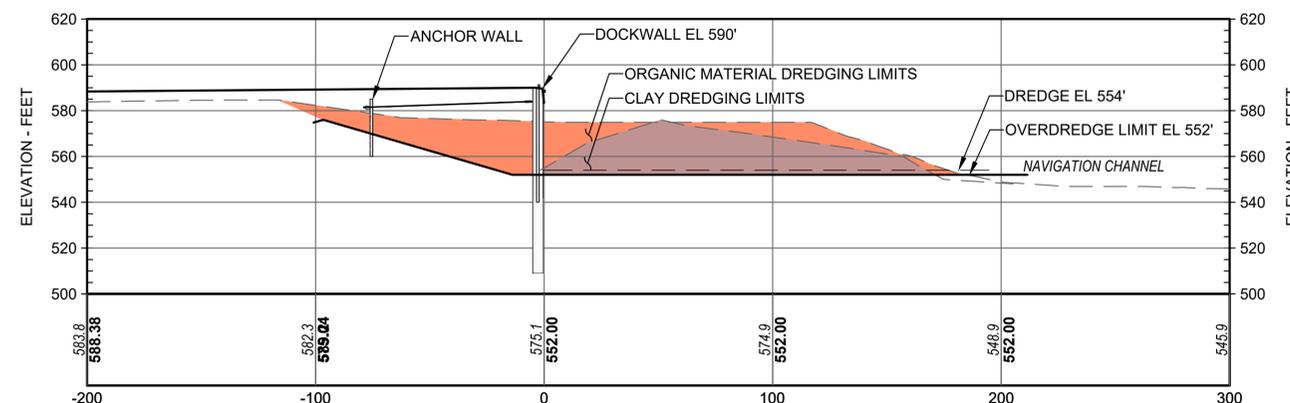
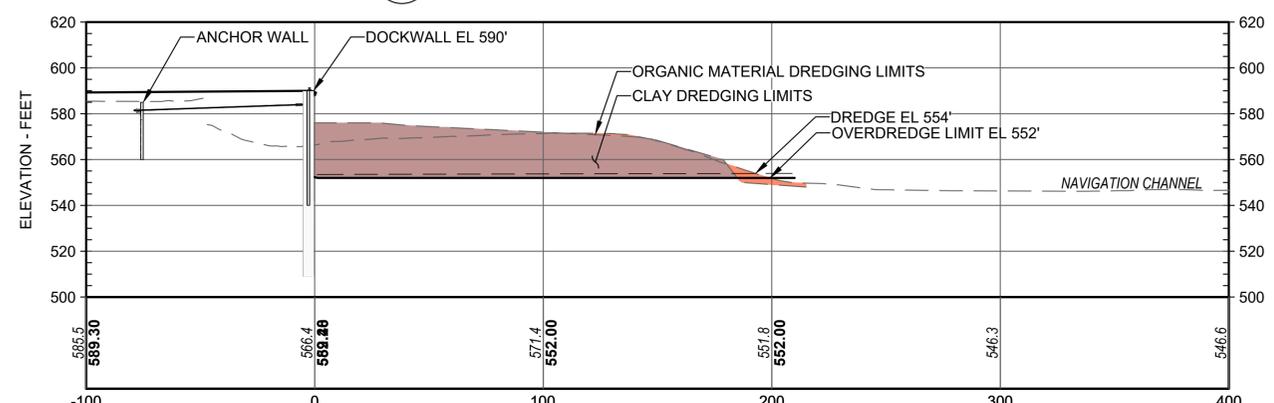
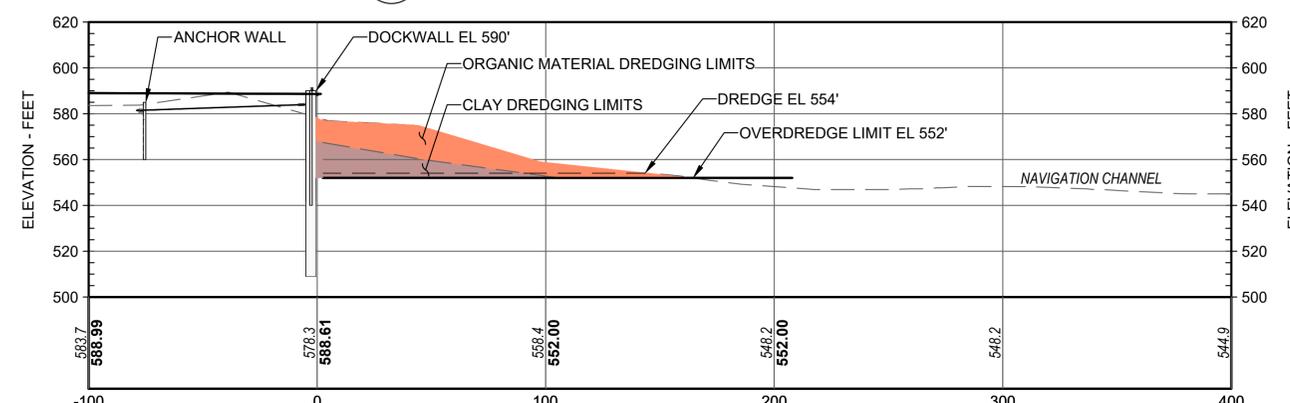
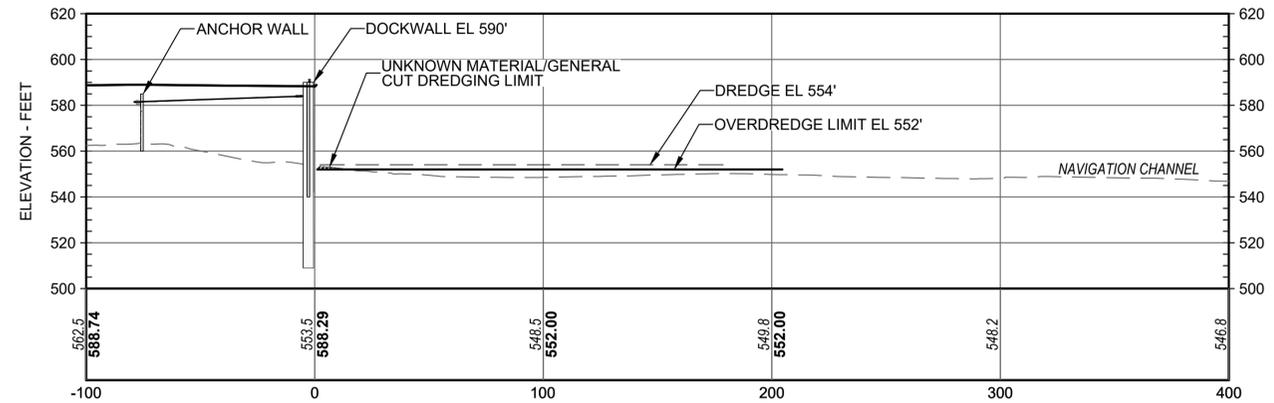
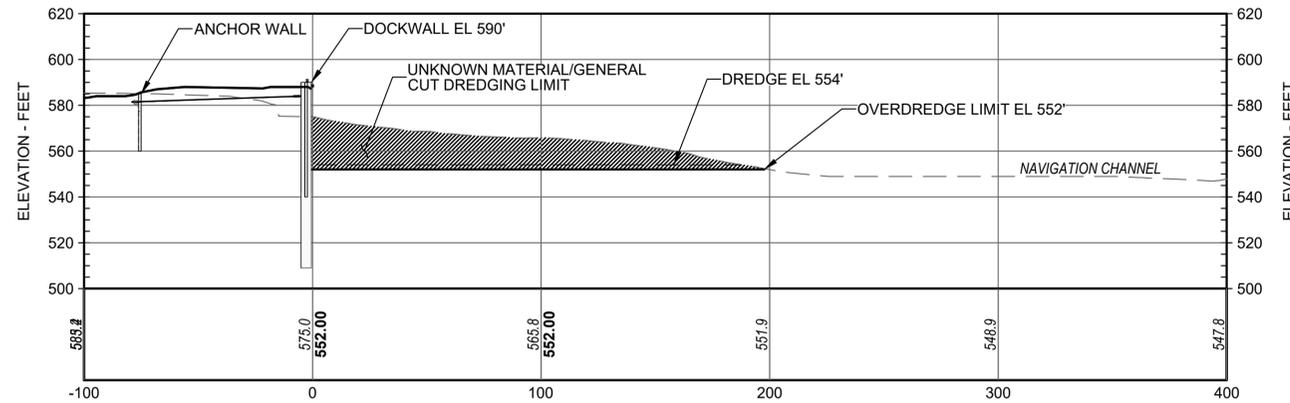
SHEET NAME

**PROPOSED
 DREDGING
 SECTIONS**

SHEET NO.

C-141

FOR CONSTRUCTION



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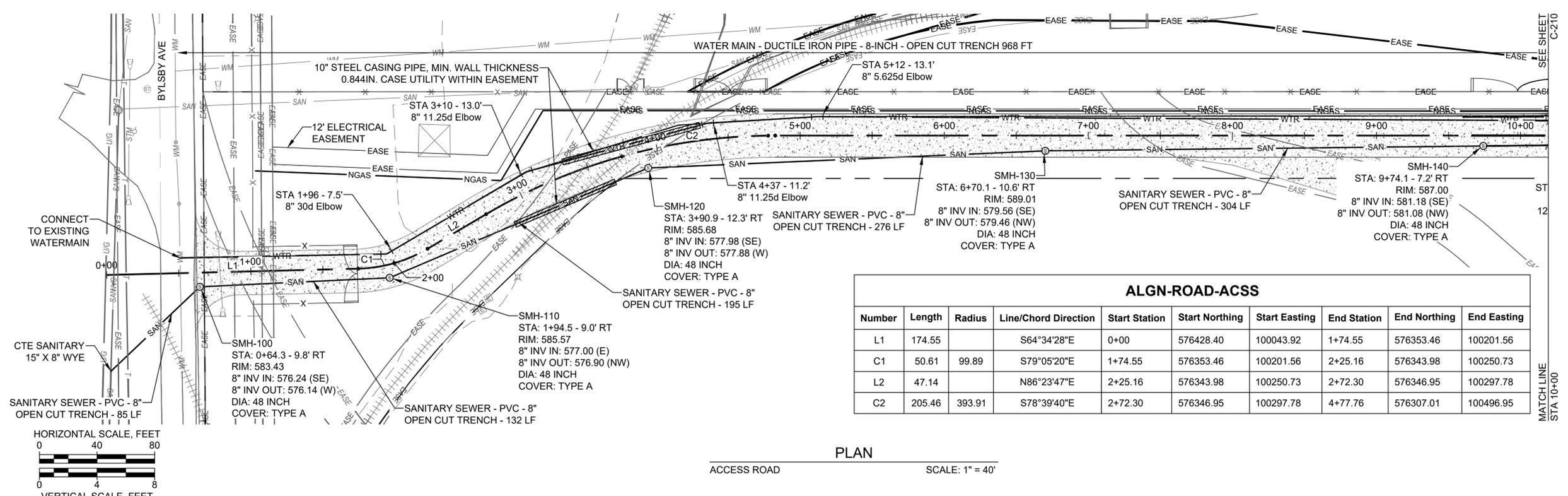
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 If this scale bar does not measure 1" then drawing is not original scale.

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0	1/27/2026	FOR CONSTRUCTION	MJV
		ISSUE/REVISION	APP

SHEET NAME
 ACCESS ROAD
 UTILITY PLAN
 0+00 TO 10+00

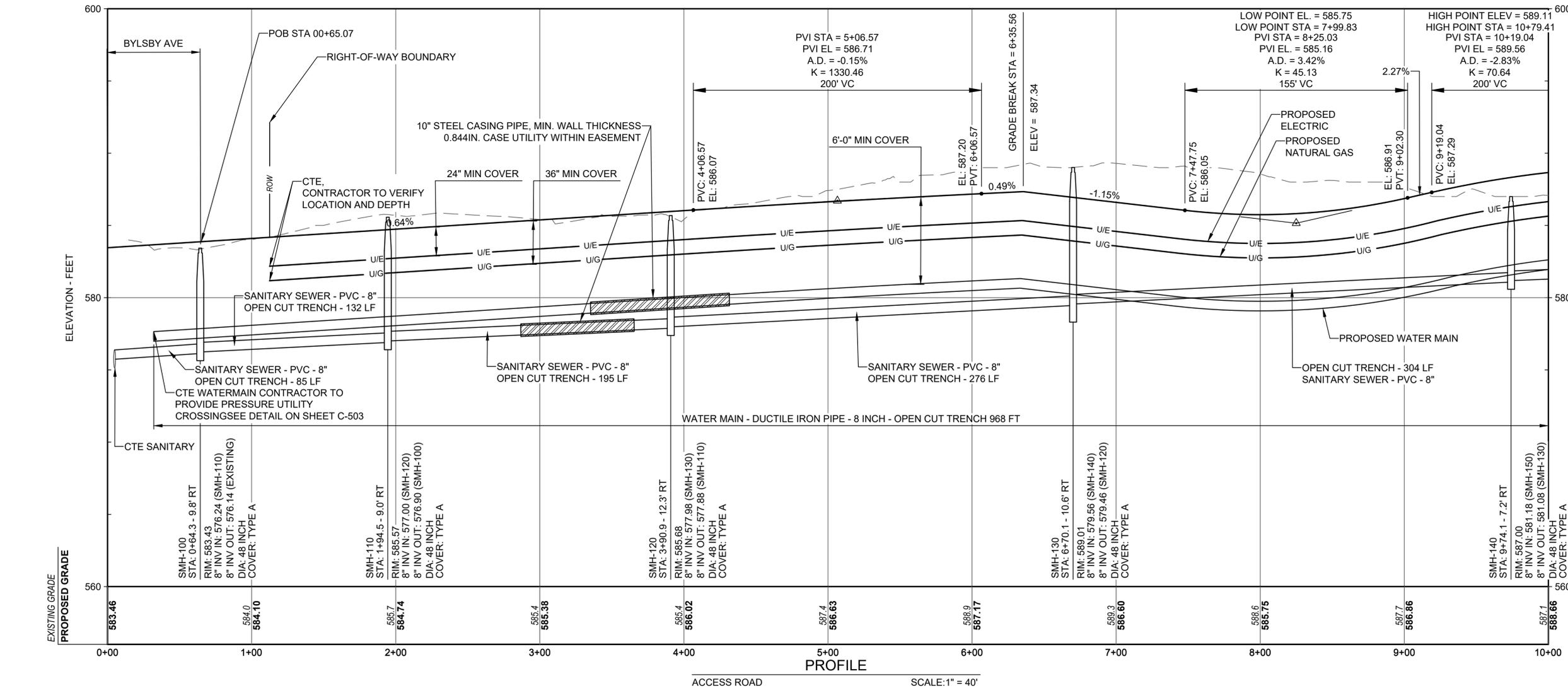
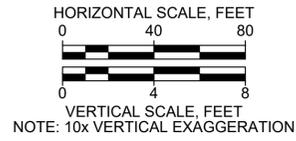
SHEET NO.
 C-200

FOR CONSTRUCTION



ALGN-ROAD-ACSS

Number	Length	Radius	Line/Chord Direction	Start Station	Start Northing	Start Easting	End Station	End Northing	End Easting
L1	174.55		S64°34'28"E	0+00	576428.40	100043.92	1+74.55	576353.46	100201.56
C1	50.61	99.89	S79°05'20"E	1+74.55	576353.46	100201.56	2+25.16	576343.98	100250.73
L2	47.14		N86°23'47"E	2+25.16	576343.98	100250.73	2+72.30	576346.95	100297.78
C2	205.46	393.91	S78°39'40"E	2+72.30	576346.95	100297.78	4+77.76	576307.01	100496.95



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P.E. No.:
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 Designed: INR
 GEI Project 2201593

Attention: 1"
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NO.	DATE	ISSUE/REVISION	APP
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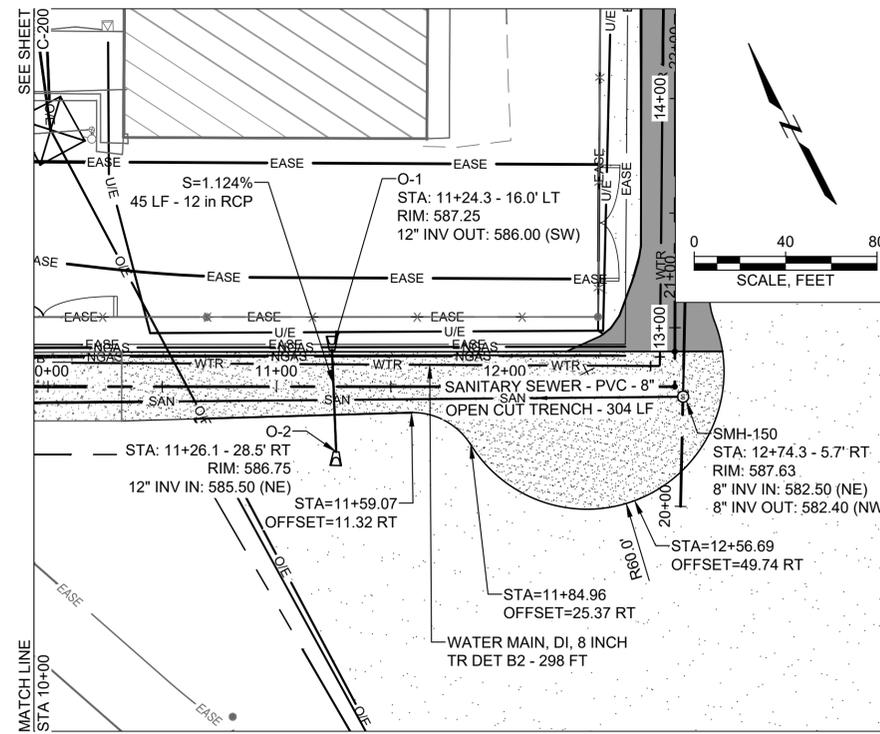
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**ACCESS ROAD
 UTILITY PLAN
 10+00 TO 13+00**

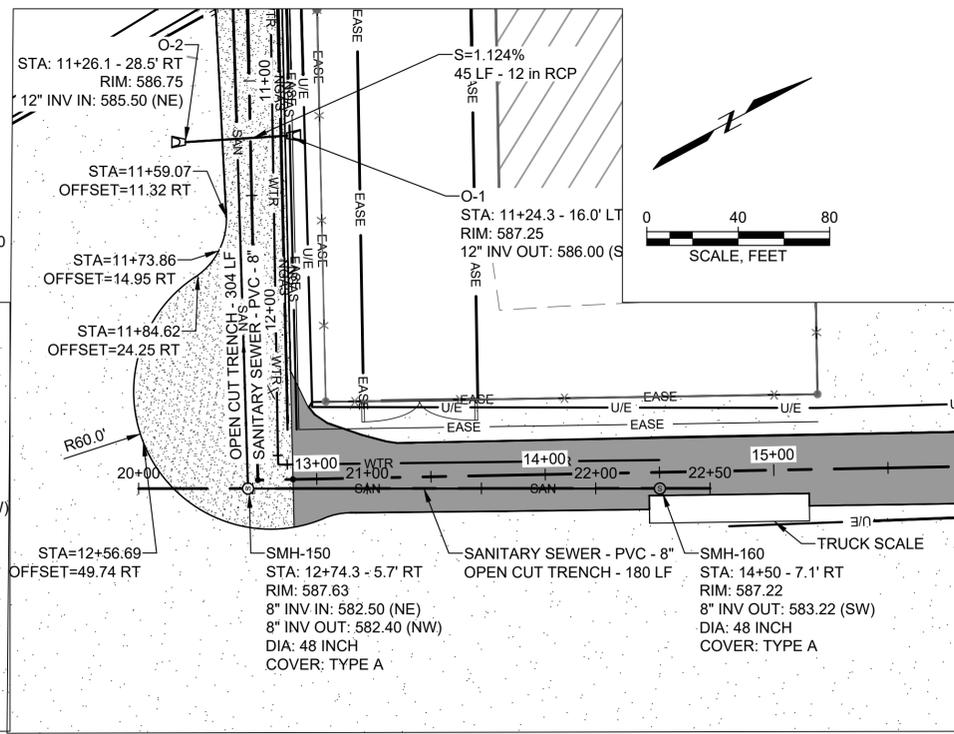
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C-210

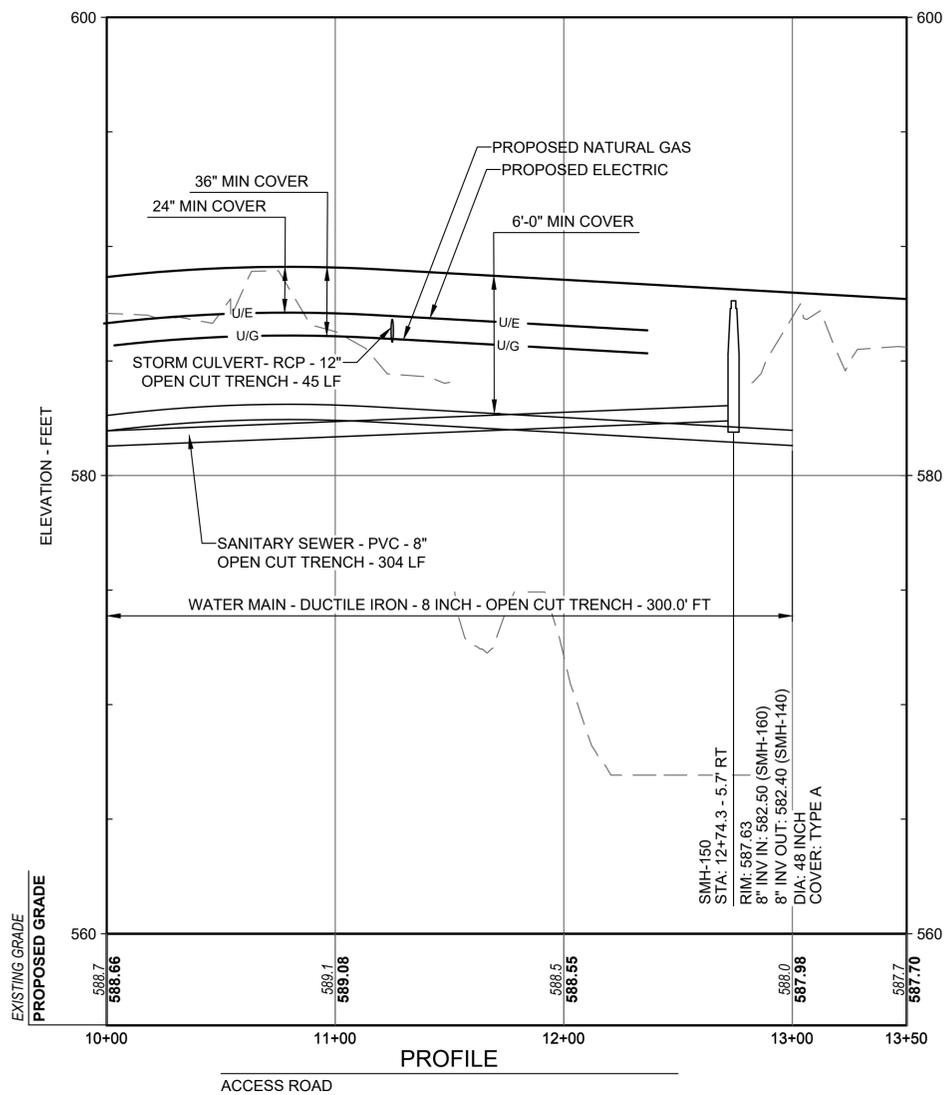
FOR CONSTRUCTION



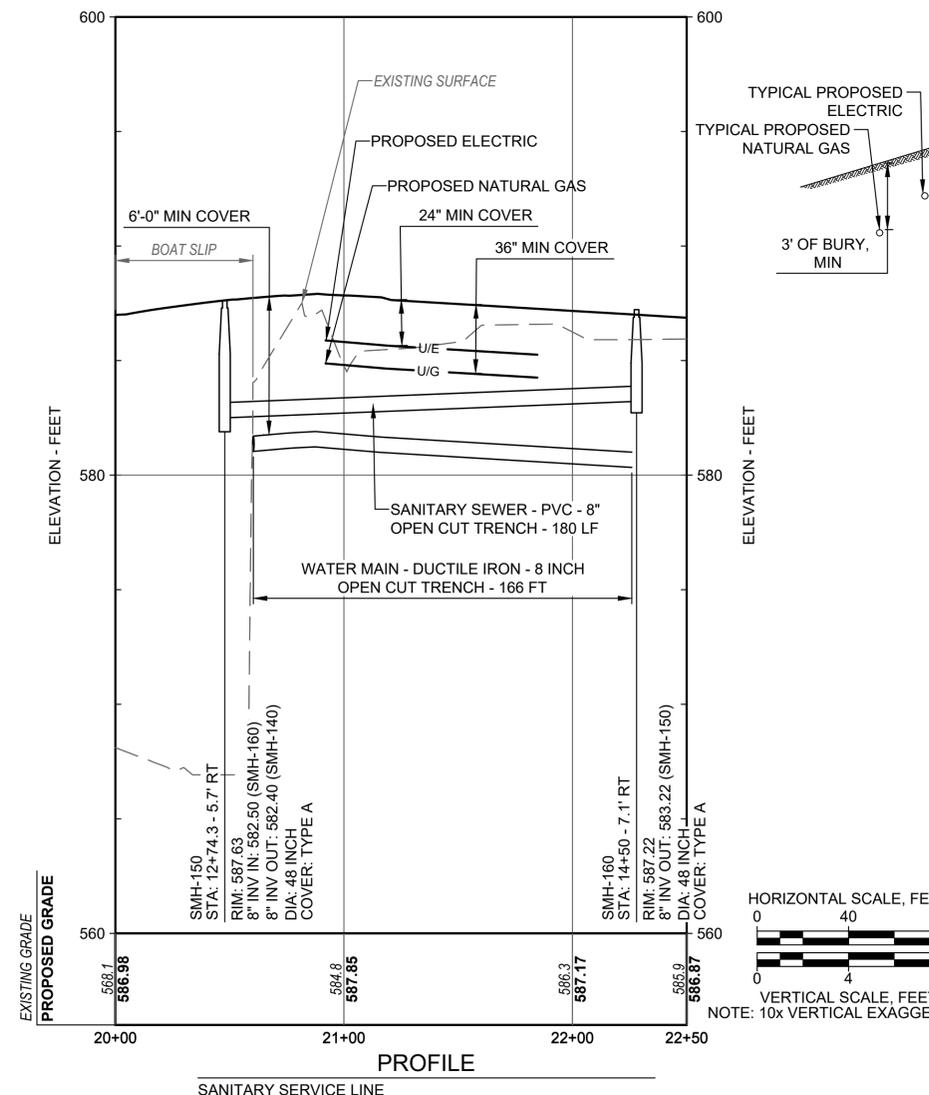
PLAN
 ACCESS ROAD SCALE: 1" = 40'



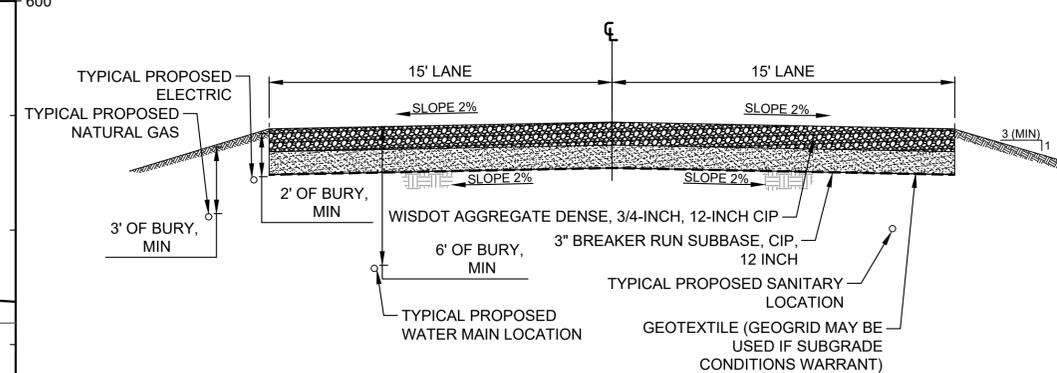
PLAN
 SANITARY SERVICE LINE SCALE: 1" = 40'



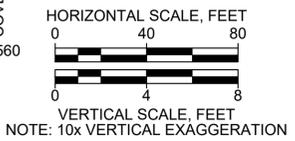
PROFILE
 ACCESS ROAD



PROFILE
 SANITARY SERVICE LINE



TYPICAL CROSS SECTION
 ACCESS ROAD SCALE: NOT TO SCALE



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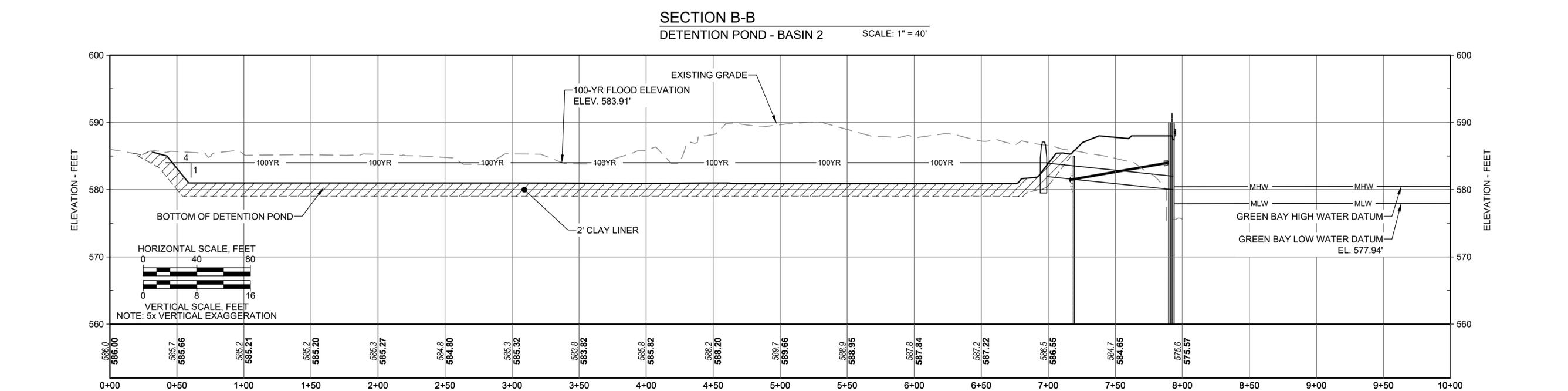
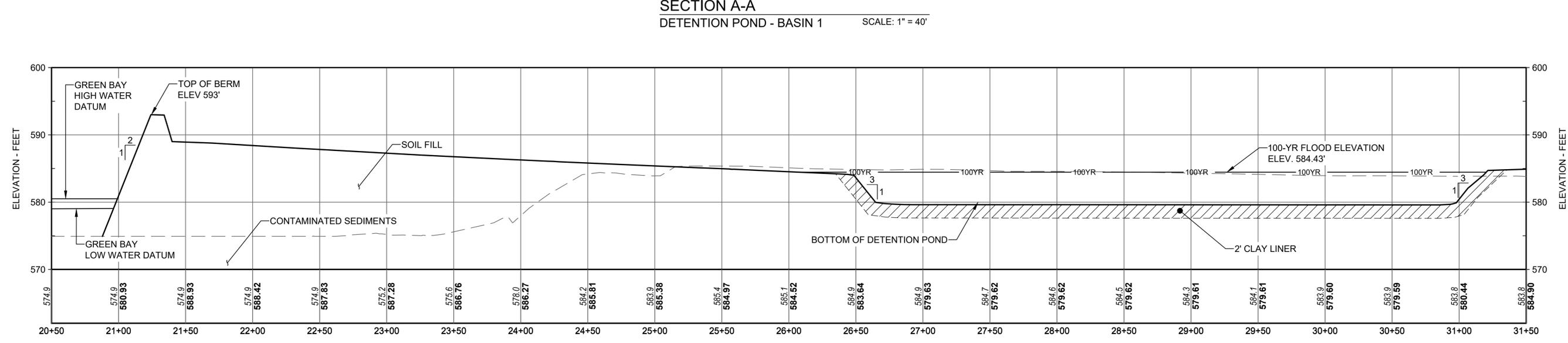
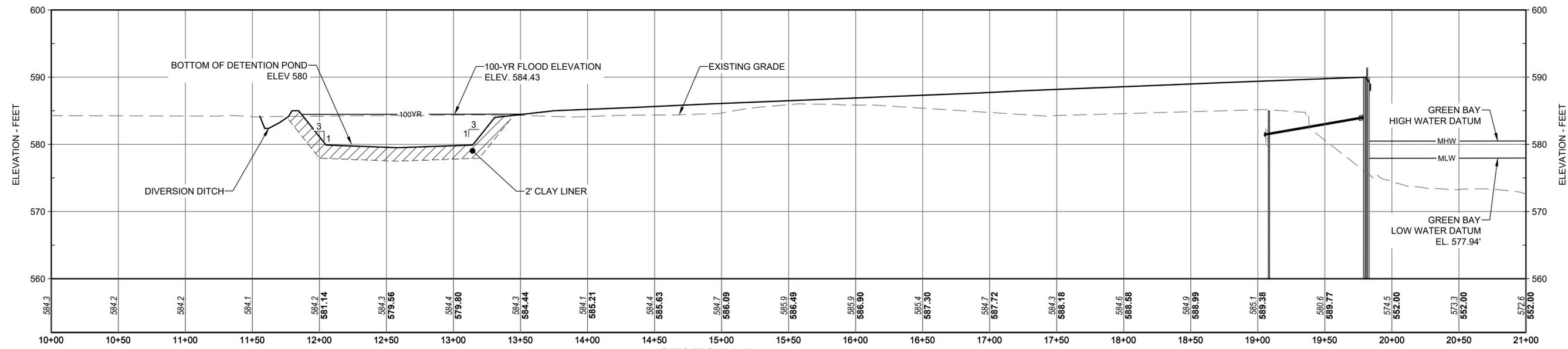
P.E. No.:
 Approved: MJV
 Checked: GMM
 Drawn: LMR
 Designed: INR
 GEI Project 2201593

Attention: 1"
 0 1" scale bar
 If this scale bar does not measure 1" then drawing is not original scale.

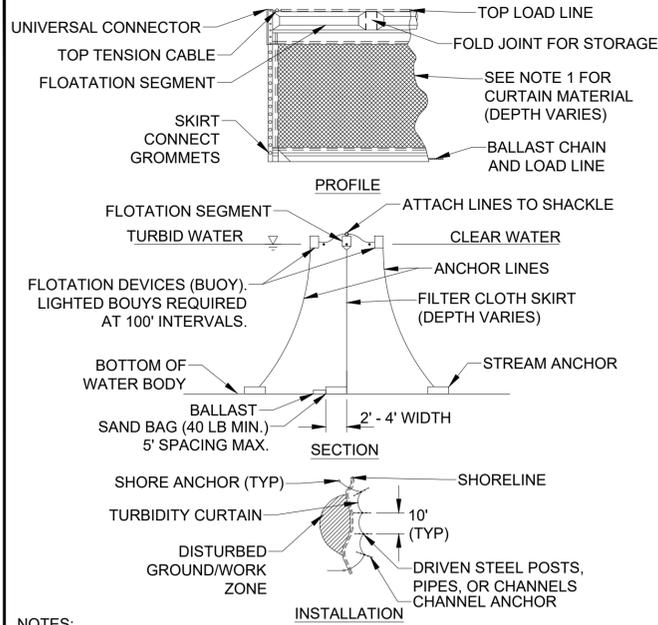
NO.	DATE	FOR CONSTRUCTION	MJV
0	1/27/2026	FOR CONSTRUCTION	MJV
		ISSUE/REVISION	APP

SHEET NAME
PROPOSED SECTIONS
 SHEET NO.
C-303

FOR CONSTRUCTION

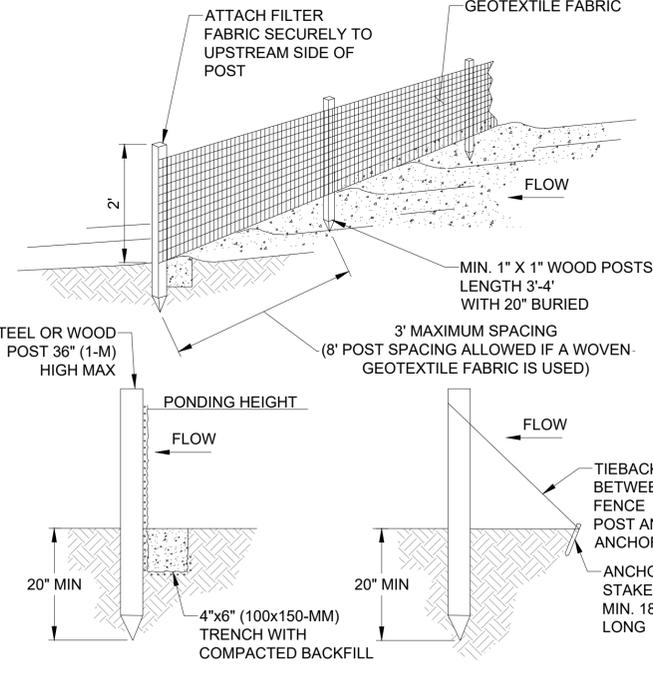


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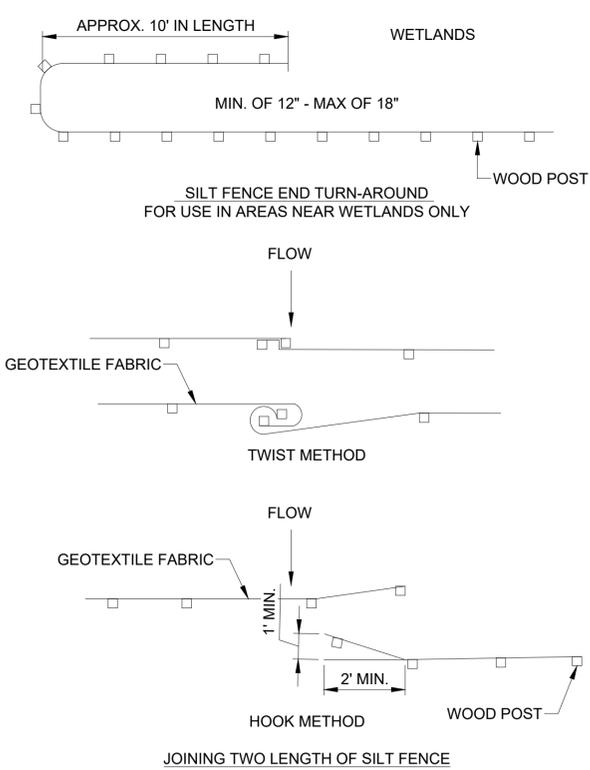


- NOTES:
- FOR UPPER (TB-P) TURBIDITY CURTAIN PLACED AROUND WATER INTAKE, MATERIAL SHALL CONTAIN A PERMEABLE FILTER FABRIC. FOR STANDARD TURBIDITY CURTAINS (TB-1) CONTAINING WORK AREAS WITH PLACEMENT OF ROCK ON THE DAM EMBANKMENT, THE MATERIAL SHALL BE IMPERMEABLE. FOR BOTTOM (TB-SM) TURBIDITY CURTAIN PLACED AROUND WATER INTAKES, FABRIC SHALL BE SAME AS STANDARD TURBIDITY CURTAIN.
 - IN WATERWAYS SUBJECT TO FLUCTUATING WATER ELEVATIONS, PROVISION SHOULD BE MADE TO ALLOW THE WATER TO EQUALIZE ON EACH SIDE OF THE BARRIER. THIS MAY BE ACCOMPLISHED BY LEAVING A PORTION OF THE BARRIER OPEN ON THE UPSTREAM END.
 - REEFING LINES ARE REQUIRED TO BE INSTALLED AND USED TO SHORTEN CURTAIN DURING PERIODS OF LOW WATER LEVELS.
 - MINIMUM BARRIER HEIGHT SHALL BE 2' GREATER THAN EITHER THE O2 ELEVATION OR THE ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION, WHICHEVER IS GREATER.

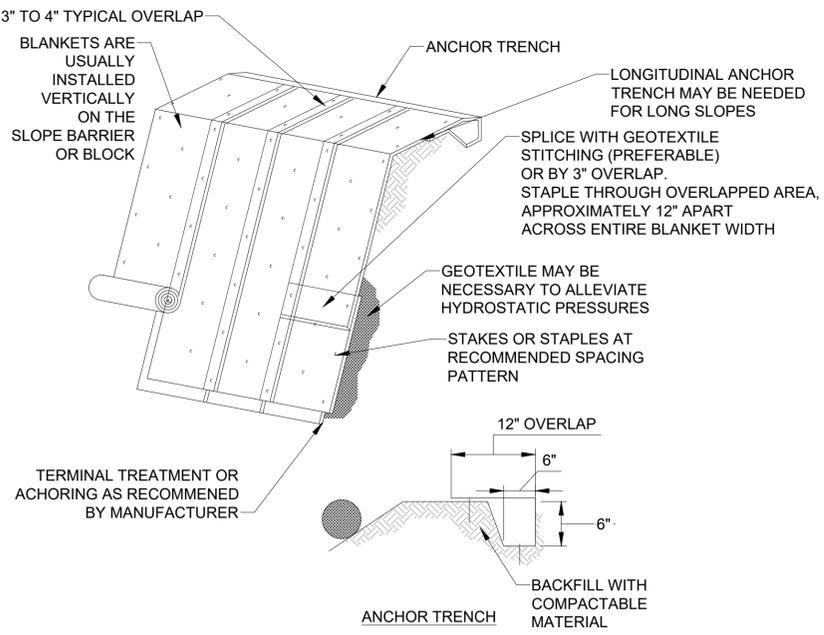
TURBIDITY CURTAIN
NO SCALE



SILT FENCE
NO SCALE



JOINING TWO LENGTH OF SILT FENCE



EROSION CONTROL BLANKET
NO SCALE

- NOTES:
- PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
 - BEGIN AT THE TOP OF SLOPE BY ANCHORING THE BLANKET IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET. EXTEND BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE BLANKET.
 - STAKING OR STAPLING LAYOUT SHALL CONFORM TO MANUFACTURERS RECOMMENDATIONS FOR SLOPE AND GRADE



P.E. No.:
Approved: MJV
Checked: GMM
Drawn: LMR
Designed: INR
GEI Project 2201593

Attention: 1"
0 1" scale bar
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NO.	DATE	FOR CONSTRUCTION	MJV
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		ISSUE/REVISION	APP

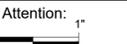
SHEET NAME
SITE DETAILS
SHEET NO.
C-500

FOR CONSTRUCTION

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P.E. No.:
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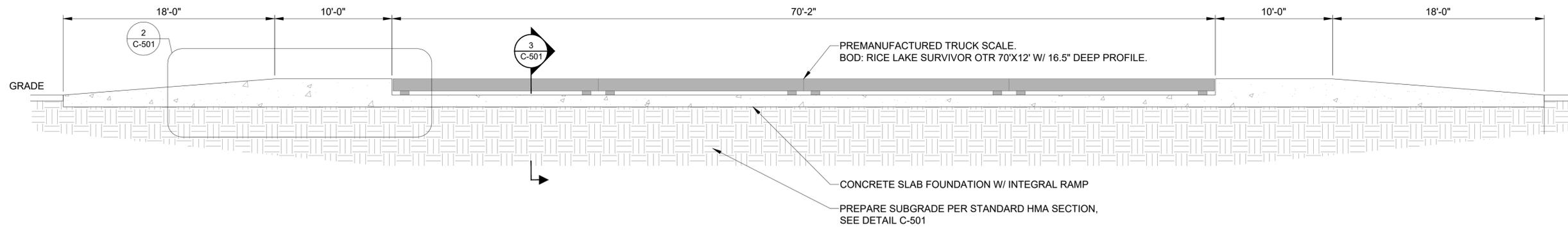
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SITE DETAILS

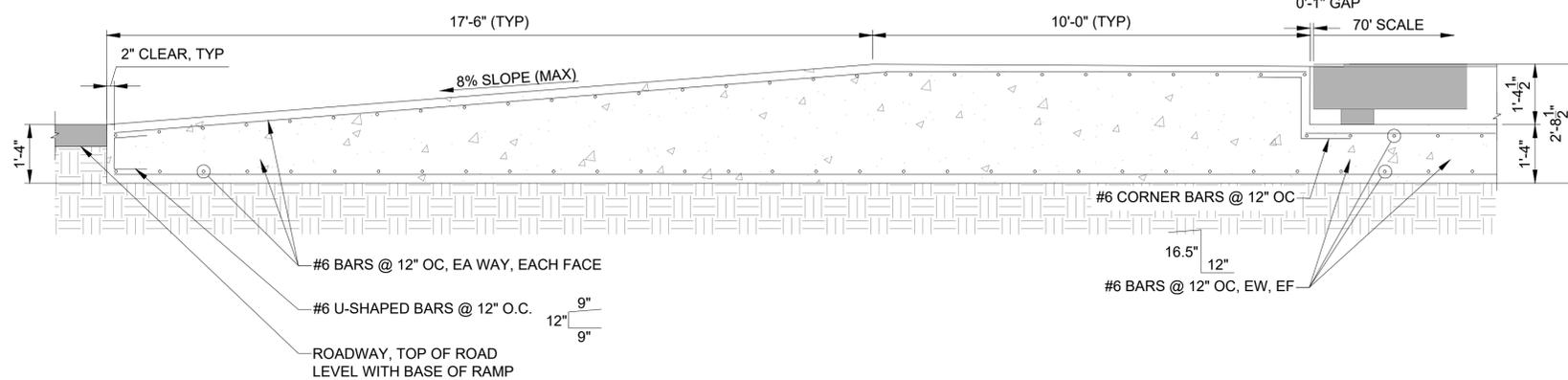
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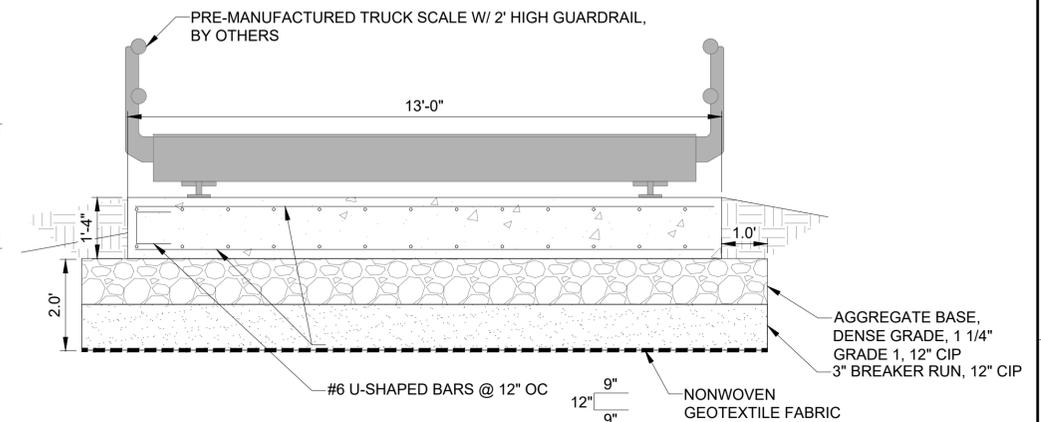
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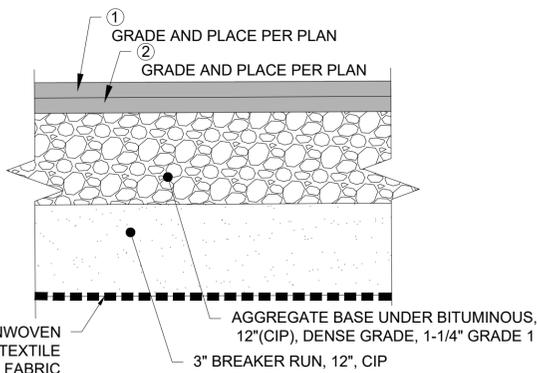
1 TRUCK SCALE SECTION
 C-501 SCALE: 1" = 5'



2 RAMP REINFORCEMENT DETAILS
 C-501 SCALE: 6" = 1'-0"



3 SCALE FOUNDATION SECTION
 C-501 SCALE: 6" = 1'-0"

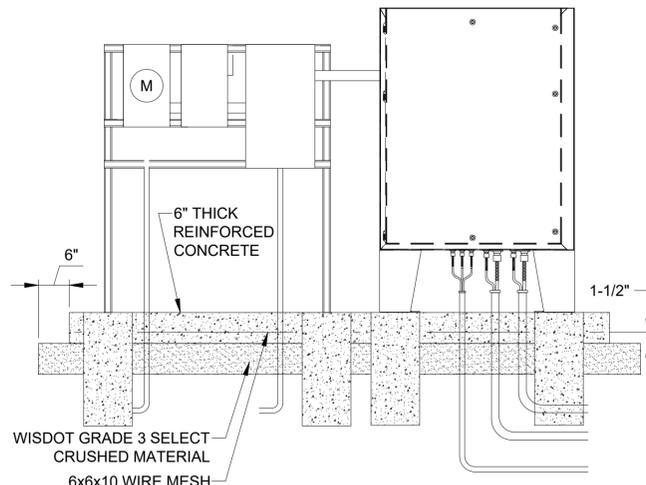


- NOTES:
- EXISTING MATERIAL MAY BE SUBSTITUTED FOR SUBBASE PROVIDED IT MEETS SPECIFICATIONS TO CONFORM TO WISDOT GRANULAR SUBBASE MATERIAL.
 - CONTRACTOR MUST SUBMIT ASPHALT MIX DESIGN TO ENGINEER FOR APPROVAL.
 - APPLICATION RATE OF 110#/SYD PER 1-INCH THICKNESS
 - REFER TO YOUR LOCAL DOT STANDARDS AND SPECIFICATIONS

HMA APPLICATION				
ITEM	MIX	RATE OF APPLICATION	ESTIMATED THICKNESS	DESCRIPTION
1	4 HT 58-28 H	190 LB/SYD	1.75 INCHES	TOP COURSE
2	4 HT 58-28 S	250 LB/SYD	2.25 INCHES	LEVELING COURSE

PLACE HMA BOND COAT SS-1H; 0.05-0.15 GALLON/SYD AS DIRECTED BY THE ENGINEER BETWEEN HMA LAYERS (FOR INFORMATION ONLY, INCLUDED WITH PAYMENT FOR HMA MIXTURES) CONTRACTOR SHALL RUN THE QUALITY MANAGEMENT PROGRAM PER WISDOT REQUIREMENTS AND PROVIDE TEST RESULT TO OWNER.

STANDARD HMA SECTION
 NO SCALE



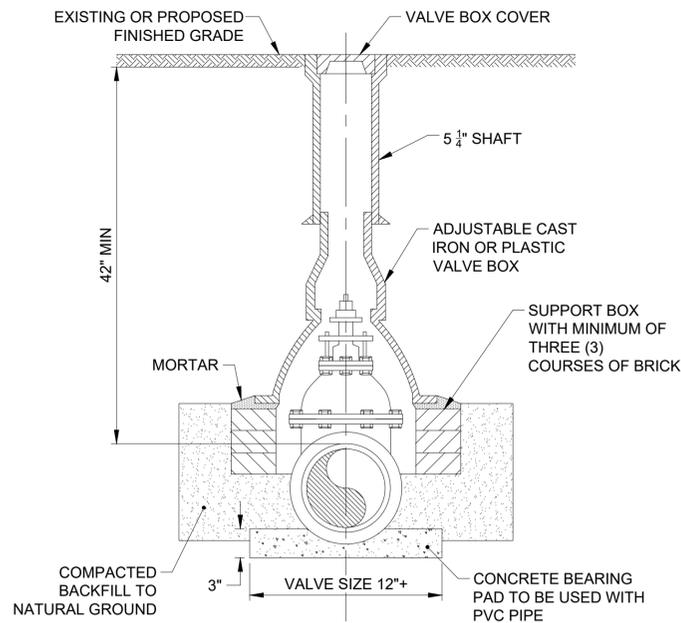
NOTES:

- 6" THICK CONCRETE SLAB SHALL BE 1 FOOT WIDER THAN TOTAL EQUIPMENT WIDTH, EACH SIDE & 3 FEET CLEARANCE IN FRONT OF EQUIPMENT.
- COMPACT SUBGRADE MATERIAL TO A MIN. OF 95% MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-1557.
- GRANULAR BASE MATERIAL SHALL BE COMPACTED TO A MIN. OF 95% MAXIMUM DRY DENSITY AS DETERMINED BY ATSTM D-1557.
- CONCRETE REQUIREMENTS:
 - COMPRESSIVE STRENGTH: 4,500 PSI @ 28 DAYS.
 - AIR ENTRAINMENT: 7.0% +/-1.5%
 - SLUMP:
 - 0-3" WITHOUT ADMIXTURES OR WITH TYPE A OR D ADMIXTURE.
 - 0-6" AFTER THE THE ADDITION OF TYPE MR, F OR G ADMIXTURE.
- GRADE PER PLANS UNO
 - MAXIMUM RUNNING SLOPE: 2%
 - MAXIMUM CROSS SLOPE: 2%

ELECTRICAL NOTES:

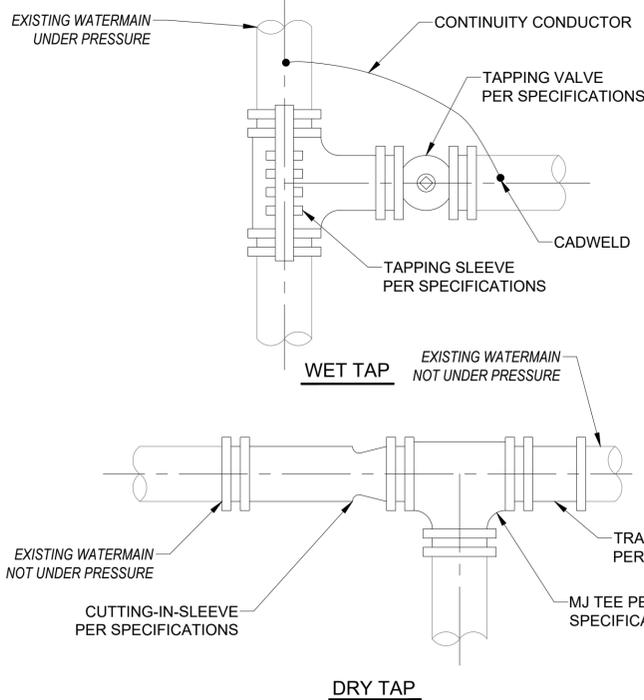
- PROVIDE ELECTRICAL FEED METER LOCATIONS TO ELECTRICAL DROP EQUIPMENT PADS.
- POWER UTILITY WILL SUPPLY POWER FROM SOURCE TO METER LOCATIONS LOCATED NEAR POWER DROPS.
- THE POWER DROP AT EACH PARCEL SHALL SUPPLY POWER TO TWO 800 KVA TRANSFORMERS.

TYPICAL ELECTRICAL DROP EQUIPMENT PAD
 NO SCALE



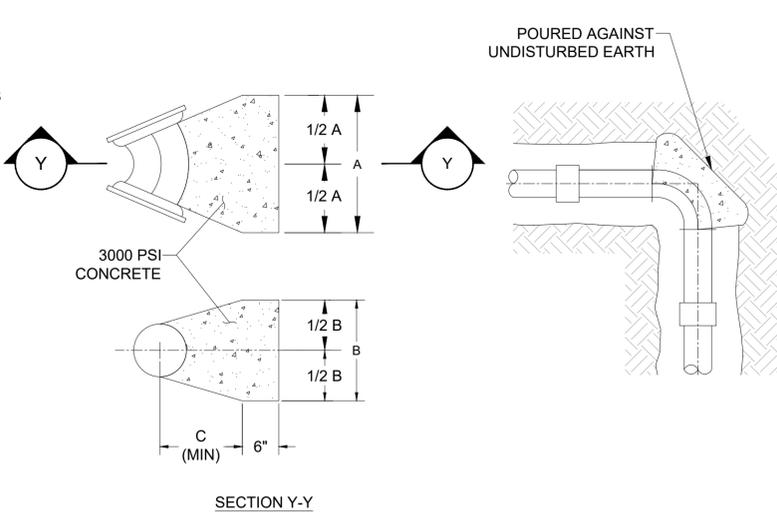
NOTE:
1. SIMILAR INSTALLATION FOR CURB BOX OR SERVICE LINE.

VALVE BOX DETAIL
NO SCALE



NOTES:
1. ALL JOINTS SHALL BE MADE USING MECHANICAL JOINT FITTINGS WITH RETAINER GLANDS.

TAP EXISTING WATERMAIN
NO SCALE



NOTES:
1. DETAILS TYPICAL FOR ALL BANDS EXCEPT TOP BEND OF A VERTICAL DEFLECTION DIMENSIONS ARE BASED ON A SURGE PRESSURE OF 150 PSI AND SAFE BEARING LOADS OF 2 TONS PER SQ. FT. IN CLEAN DRY SAND.
2. THE SHAPE OF THE BACK OF THE BLOCK MAY VARY AS LONG AS THE BEARING AREA PERPENDICULAR TO THE DIRECTION OF THE THRUST IS NO LESS THAN THE AREA SHOWN IN THE TABLES AND THE POUR IS AGAINST FIRM UNDISTURBED EARTH.
3. JOINTS SHALL BE KEPT FREE OF CONCRETE AND A NON-ADHESIVE BARRIER APPROVED BY THE ENGINEER SHALL BE PLACED BETWEEN THE THRUST BLOCK AND ALL MECHANICAL JOINTS.

THRUST BLOCK DETAIL
NO SCALE

SCHEDULE FOR 22 1/2° AND 11 1/4° BENDS

W.M. SIZE	THRUST BLOCK DIM.			BEARING AREA* SQ. FT. (MIN)
	A(MIN)	B(MIN)	C(MIN)	
6"	1'-0"	1'-0"	1'-0"	1.0
8"	1'-6"	1'-3"	1'-2"	1.9
10"	1'-9"	1'-6"	1'-4"	2.6
12"	2'-0"	1'-9"	1'-6"	3.5
16"	2'-6"	2'-0"	1'-9"	5.0

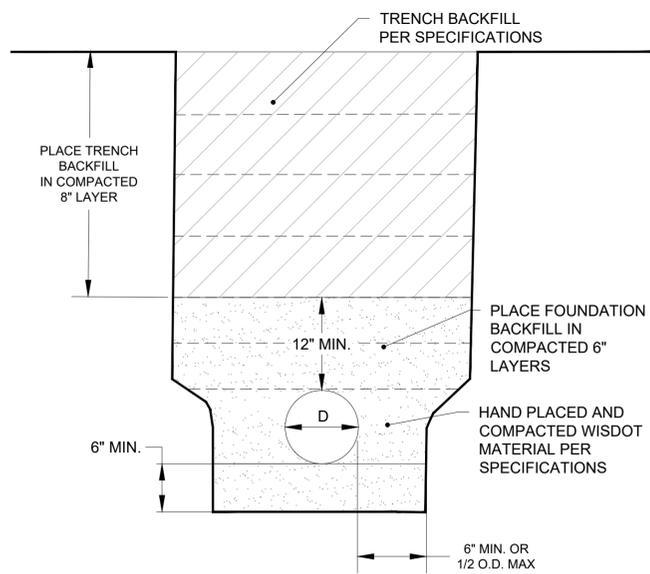
SCHEDULE FOR 45° BENDS

W.M. SIZE	THRUST BLOCK DIM.			BEARING AREA* SQ. FT. (MIN)
	A(MIN)	B(MIN)	C(MIN)	
6"	1'-6"	1'-0"	1'-0"	1.5
8"	1'-6"	1'-6"	1'-3"	2.25
10"	2'-6"	1'-6"	1'-6"	3.75
12"	2'-6"	2'-0"	1'-9"	5.0
16"	4'-0"	2'-6"	2'-10"	10.0

SCHEDULE FOR 90° BENDS

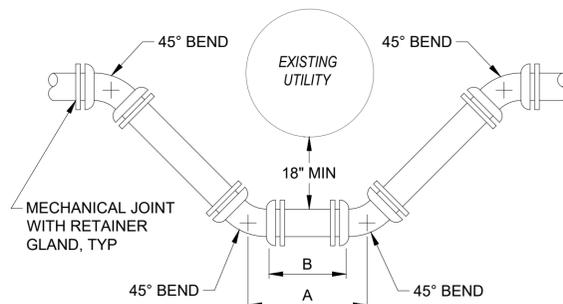
W.M. SIZE	THRUST BLOCK DIM.			BEARING AREA* SQ. FT. (MIN)
	A(MIN)	B(MIN)	C(MIN)	
6"	1'-6"	1'-6"	1'-0"	2.25
8"	2'-0"	2'-0"	1'-3"	4.0
10"	3'-6"	2'-0"	1'-6"	7.0
12"	3'-6"	2'-6"	1'-9"	9.0
16"	4'-0"	4'-0"	2'-10"	16.0

*MEASURED PERPENDICULAR TO DIRECTION OF THRUST CAUSED BY BENDS



NOTES:
1. EXCAVATE AND PLACE FOUNDATION BACKFILL AT LEAST 6 INCHES BELOW THE BOTTOM OF THE PIPE. IF ROCK, HARDPAN, OR FRAGMENTED MATERIAL EXISTS, THE DEPTH IS THE GREATER OR 6 INCHES BELOW THE PIPE OR TO A DEPTH EQUAL TO 1/2 INCH PER FOOT OF PROPOSED EMBANKMENT ABOVE THE TOP OF THE PIPE.
2. THE BACKFILL MATERIALS AND METHODS SHALL CONFORM TO THE SPECIFICATIONS.

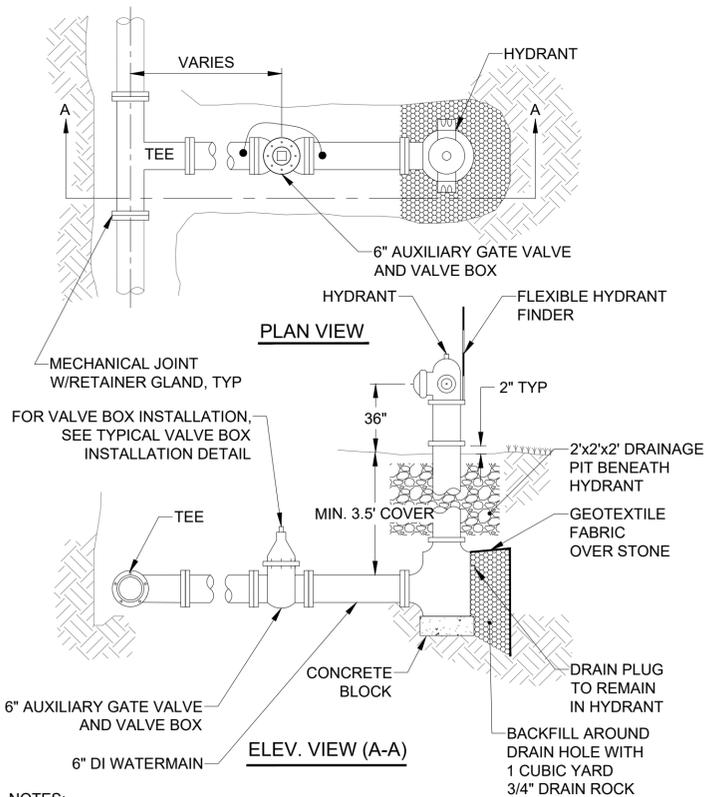
PIPE BEDDING DETAIL
NO SCALE



		ID EXISTING UTILITY			
W.M.		<12	12	24	36
6"	A	23"	28 1/2"	34"	40"
	B	13"	16 1/2"	22"	27 1/2"
8"	A	24"	29 1/2"	35"	40 1/2"
	B	13 1/2"	13 1/2"	19"	24 1/2"
10"	A	25"	30 1/2"	36"	41 1/2"
	B	14"	14"	16"	21 1/2"
12"	A	25"	31 1/2"	37"	42 1/2"
	B	14 1/2"	14 1/2"	14 1/2"	18 1/2"

NOTES:
1. WHEN CROSSING UNDER STORM OR SANITARY SEWERS. THE DIMENSION "B" SHALL BE A FULL LENGTH OF PIPE WITH JOINTS AT EQUAL DISTANCE FROM THE SEWER.
2. ALL JOINTS SHALL BE MADE USING MECHANICAL JOINT FITTINGS WITH RETAINER GLANDS. THE ENGINEER MAY ALLOW OTHER TYPES OF JOINT RESTRAINTS IF CIRCUMSTANCES WARRANT. ANY MODIFICATIONS MUST BE APPROVED BY THE ENGINEER IN WRITING PRIOR TO CONSTRUCTION.
3. CONTRACTOR MUST SUPPORT EXISTING UTILITY DURING CONSTRUCTION. CONTRACTOR RESPONSIBLE FOR REPAIR OF DAMAGE TO EXISTING UTILITIES AT THEIR EXPENSE.
4. PROVIDE AND COMPACT FILL BETWEEN PIPES PER PROJECT DOCUMENTS.

PRESSURE UTILITY CROSSING
NO SCALE



NOTES:
1. ALL HYDRANT LEAD FITTINGS, INCLUDING ALL THREE SIDES OF THE TEE, SHALL BE MECHANICAL JOINT WITH RETAINER GLANDS.

HYDRANT CONNECTION
NO SCALE



P.E. No.:
Approved: MJV
Checked: GMM
Drawn: LMR
Designed: INR
GEI Project 2201593

Attention: 1"
If this scale bar does not measure 1" then drawing is not original scale.

0	1/27/2026	FOR CONSTRUCTION	MJV
NO.	DATE	ISSUE/REVISION	APP

SHEET NAME

WATER DETAILS

SHEET NO.

C-503

FOR CONSTRUCTION



P.E. No.:
 Approved: MJV
 Checked: GMM
 Drawn: LMR
 Designed: INR
 GEI Project 2201593

Attention: 1"
 0 1" Scale Bar
 If this scale bar does not measure 1" then drawing is not original scale.

NO.	DATE	FOR CONSTRUCTION	MJV
0	1/27/2026	FOR CONSTRUCTION	MJV
		ISSUE/REVISION	APP

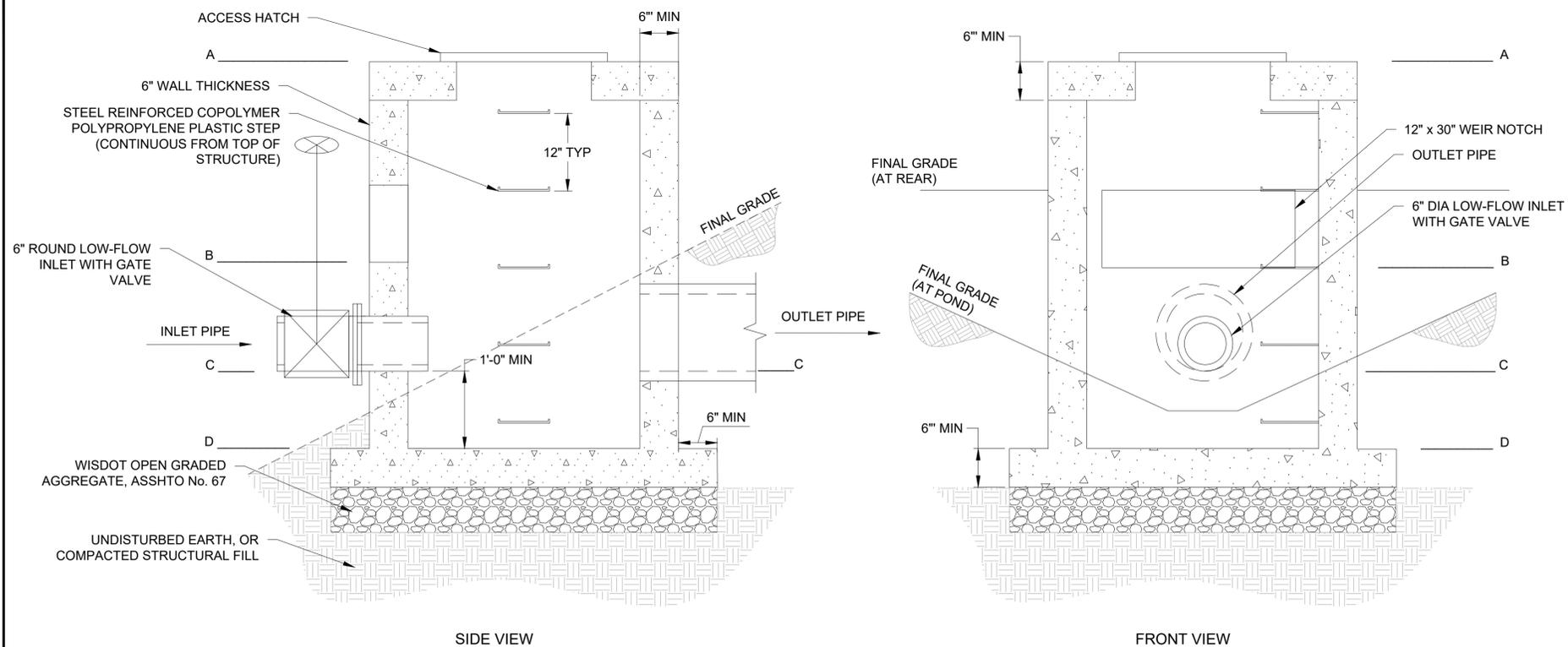
SHEET NAME

STORM DETAILS

SHEET NO.

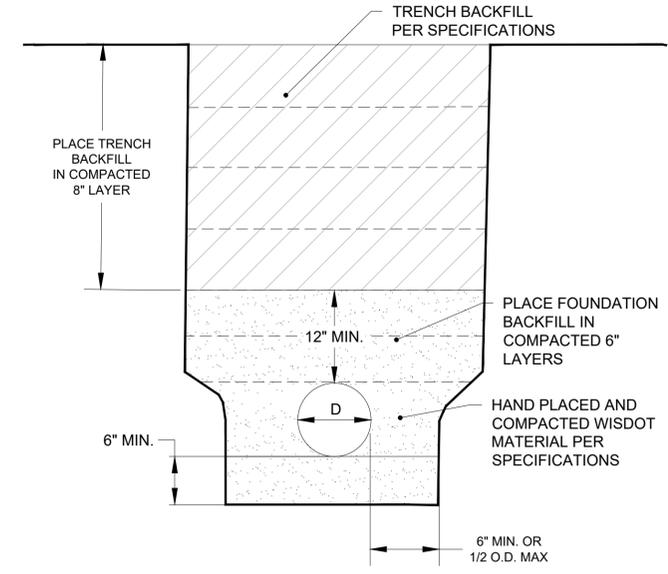
C-504

FOR CONSTRUCTION



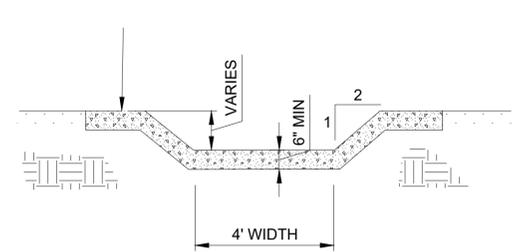
BASIN	A	B	C	D	EMERGENCY SPILLWAY
1	585.00	583.00	581.50	579.50	584.00
2	585.00	583.50	582.00	580.00	584.00

POND STRUCTURE OUTLET
 NO SCALE



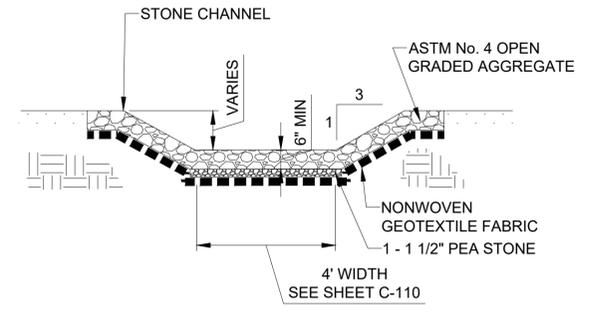
NOTES:
 1. EXCAVATE AND PLACE FOUNDATION BACKFILL AT LEAST 6 INCHES BELOW THE BOTTOM OF THE PIPE. IF ROCK, HARDPAN, OR FRAGMENTED MATERIAL EXISTS, THE DEPTH IS THE GREATER OR 6 INCHES BELOW THE PIPE OR TO A DEPTH EQUAL TO 1/2 INCH PER FOOT OF PROPOSED EMBANKMENT ABOVE THE TOP OF THE PIPE.
 2. THE BACKFILL MATERIALS AND METHODS SHALL CONFORM TO THE SPECIFICATIONS.

PIPE BEDDING DETAIL
 NO SCALE

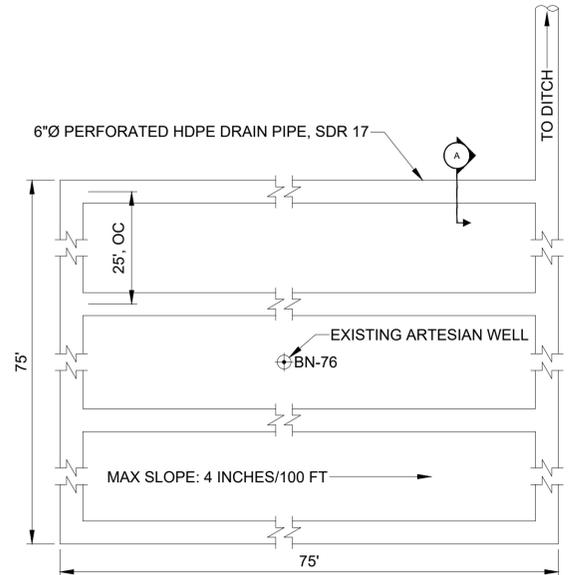


NOTES:
 1. COMPACT SUBGRADE MATERIAL TO A MIN. OF 95% MAXIMUM DRY DENSITY AS DETERMINED BY ASTM-D1557.
 2. GRANULAR BASE MATERIAL SHALL BE COMPACTED TO A MIN OF 95% MAXIMUM DRY DENSITY AS DETERMINED BY ASTM-D1557.
 3. CONCRETE REQUIREMENTS:
 3.1. COMPRESSIVE STRENGTH: 4,500 PSI @ 28 DAYS
 3.2. AIR ENTRAINMENT: 7.0% +/- 1.5%
 3.3. SLUMP:
 3.3.1. 0-3" WITHOUT ADMIXTURES OR WITH TYPE A OR D ADMIXTURE.
 3.3.2. 0-6" AFTER THE ADDITION OF TYPE MR, F OR G ADMIXTURE.
 4. SAW CUT 1/4 DEPTH CONTRACTION JOINTS AT 25' INTERVALS FIBER EXPANSION JOINTS TO BE INSTALLED AT 100' INTERVALS AND AT EACH CHANGE IN DIRECTION.

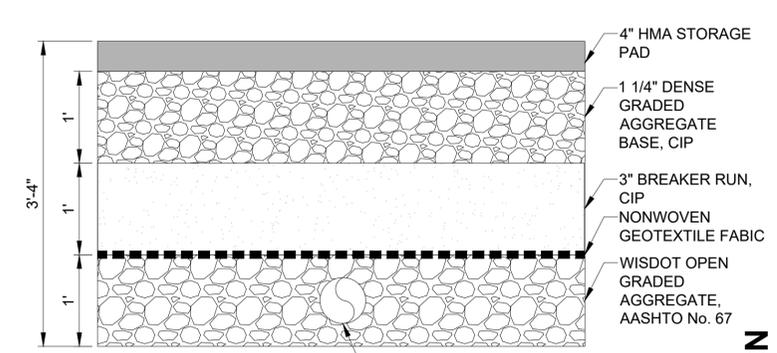
CONCRETE DRAINAGE SWALE
 NO SCALE



DRAINAGE SWALE - WITH STONE
 NO SCALE



ARTESIAN WELL DRAIN FIELD
 PLAN
 NO SCALE



ARTESIAN WELL DRAIN FIELD
 SECTION
 NO SCALE

ROBERTS, ISAAC, B:\Working\BROWN COUNTY\W2201593 Port Property Development\00_CAD\Design\Sheet\SITE DETAILS.dwg - 1/27/2026



P.E. No.:
 Approved: MJV
 Checked: GMM
 Drawn: LMR
 Designed: INR
 GEI Project 2201593

Attention: 1"
 0 1" scale bar
 If this scale bar does not measure 1" then drawing is not original scale.

NO.	DATE	FOR CONSTRUCTION	MJV
		ISSUE/REVISION	APP

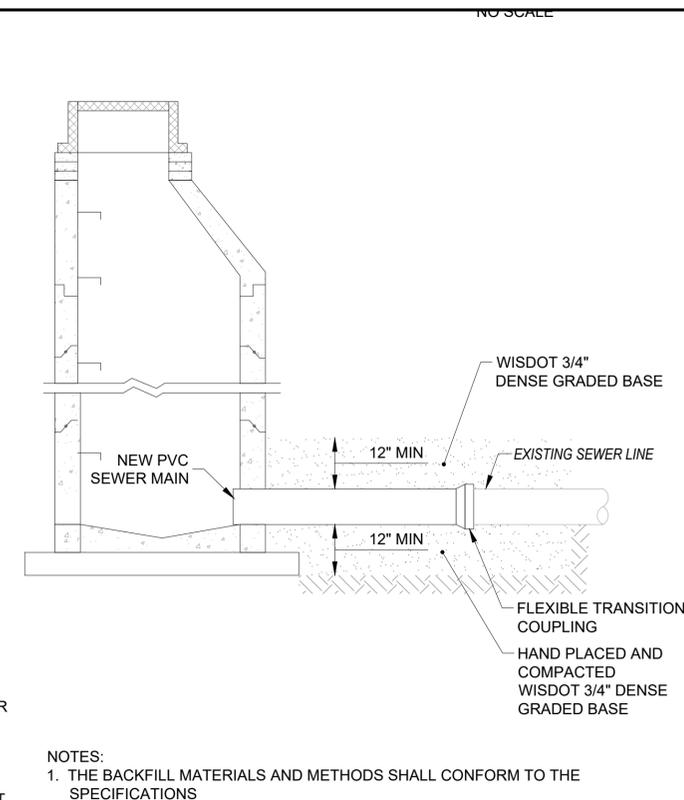
SHEET NAME

SANITARY DETAILS

SHEET NO.

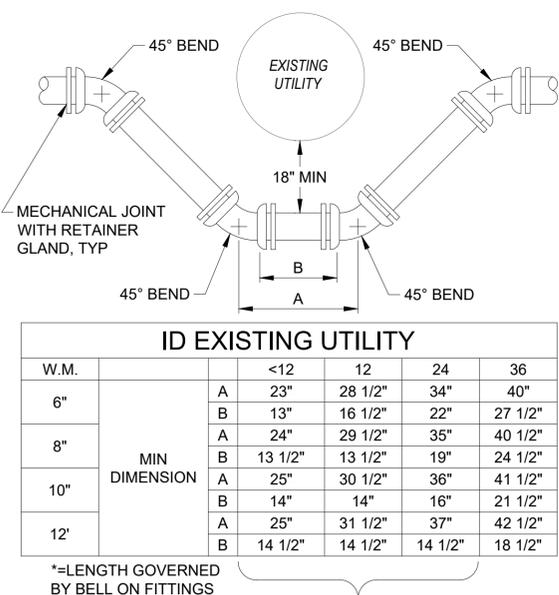
C-505

FOR CONSTRUCTION



NOTES:
 1. THE BACKFILL MATERIALS AND METHODS SHALL CONFORM TO THE SPECIFICATIONS

**SANITARY SEWER MAIN CONNECTION
 NEW TO EXISTING AT NEW MANHOLE**
 NO SCALE



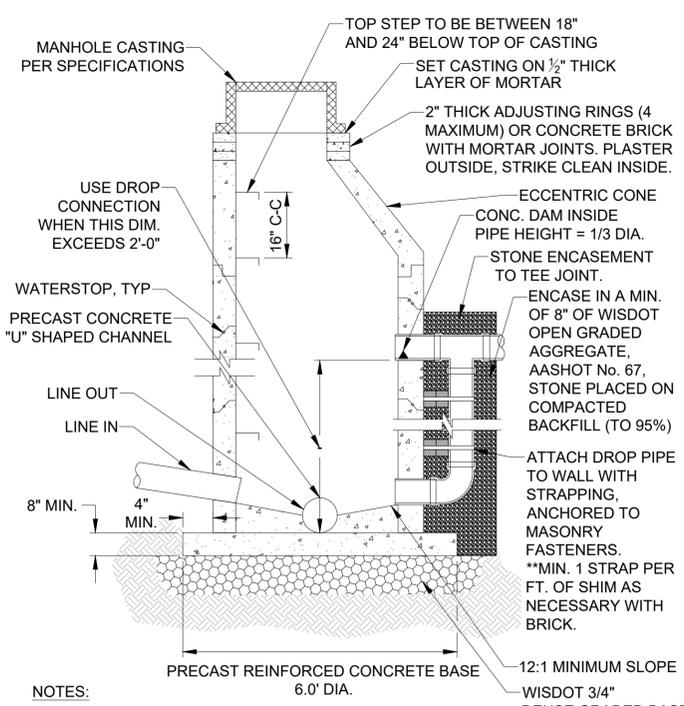
ID EXISTING UTILITY

W.M.		<12	12	24	36
6"	A	23"	28 1/2"	34"	40"
	B	13"	16 1/2"	22"	27 1/2"
8"	A	24"	29 1/2"	35"	40 1/2"
	B	13 1/2"	13 1/2"	19"	24 1/2"
10"	A	25"	30 1/2"	36"	41 1/2"
	B	14"	14"	16"	21 1/2"
12'	A	25"	31 1/2"	37"	42 1/2"
	B	14 1/2"	14 1/2"	14 1/2"	18 1/2"

*=LENGTH GOVERNED BY BELL ON FITTINGS

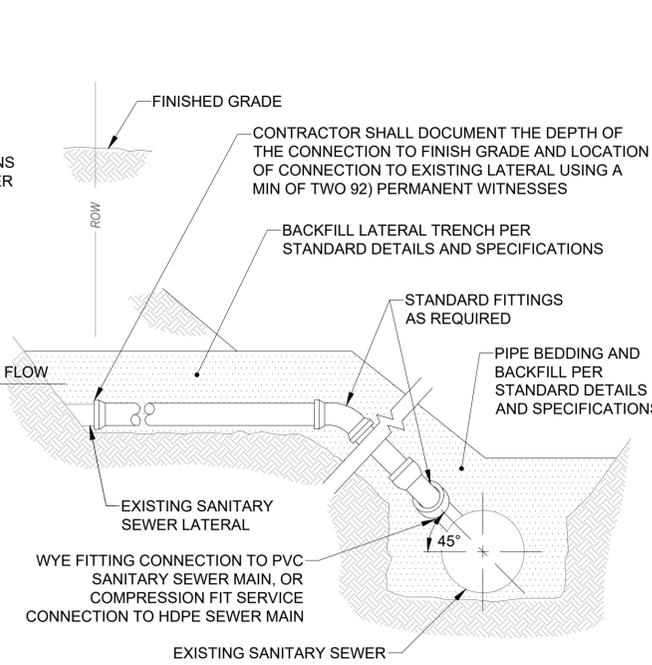
NOTES:
 1. WHEN CROSSING UNDER STORM OR SANITARY SEWERS, THE DIMENSION "B" SHALL BE A FULL LENGTH OF PIPE WITH JOINTS AT EQUAL DISTANCE FROM THE SEWER.
 2. ALL JOINTS SHALL BE MADE USING MECHANICAL JOINT FITTINGS WITH RETAINER GLANDS. THE ENGINEER MAY ALLOW OTHER TYPES OF JOINT RESTRAINTS IF CIRCUMSTANCES WARRANT. ANY MODIFICATIONS MUST BE APPROVED BY THE ENGINEER IN WRITING PRIOR TO CONSTRUCTION.
 3. CONTRACTOR MUST SUPPORT EXISTING UTILITY DURING CONSTRUCTION. CONTRACTOR RESPONSIBLE FOR REPAIR OF DAMAGE TO EXISTING UTILITIES AT THEIR EXPENSE.
 4. PROVIDE AND COMPACT FILL BETWEEN PIPES PER PROJECT DOCUMENTS.

PRESSURE UTILITY CROSSING
 NO SCALE



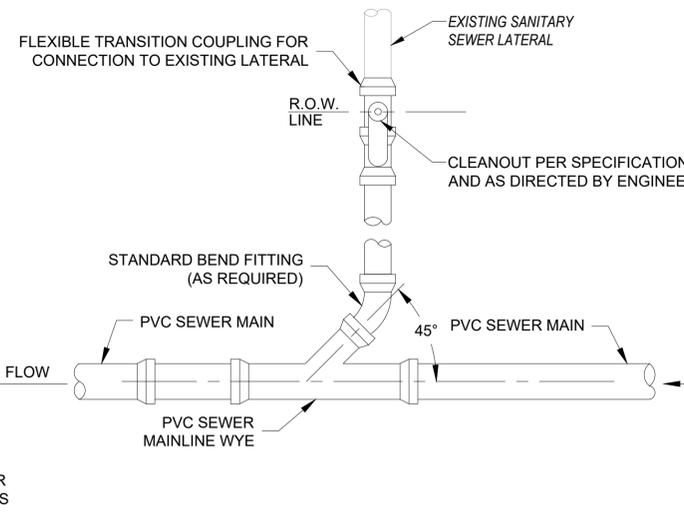
NOTES:
 1. SANITARY SEWER MANHOLES SHALL BE PROVIDED WITH PRECAST CONCRETE FLOW CHANNELS.
 2. PRECAST CONCRETE FLOW CHANNELS SHALL PROVIDE A SMOOTH FLOW-LINE TRANSITION BETWEEN MANHOLE INLET(S) AND MANHOLE OUTLET.

**STANDARD CONCRETE MANHOLE
 W/ OUTSIDE DROP CONNECTION**
 NO SCALE



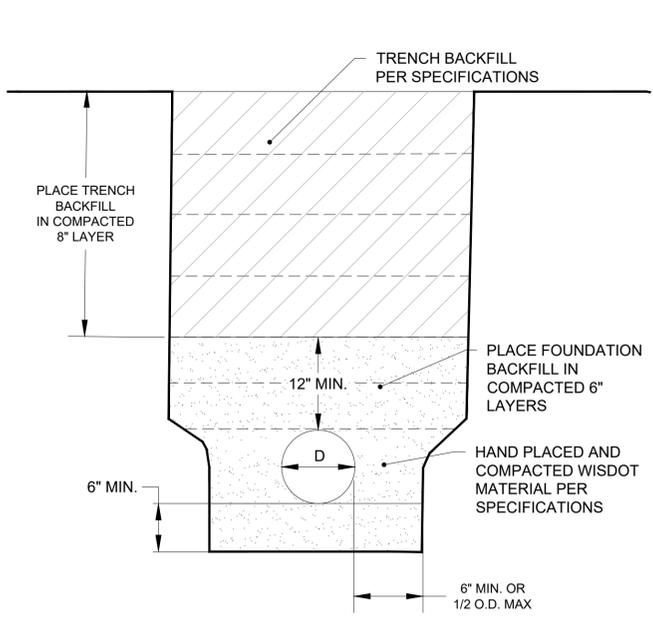
CONTRACTOR SHALL DOCUMENT THE DEPTH OF THE CONNECTION TO FINISH GRADE AND LOCATION OF CONNECTION TO EXISTING LATERAL USING A MIN OF TWO (2) PERMANENT WITNESSES

SANITARY SEWER LATERAL RISER
 NO SCALE



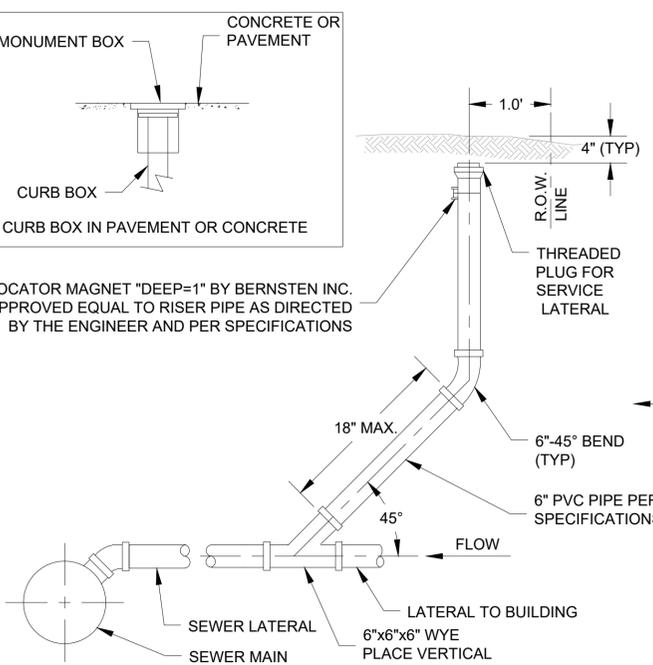
NOTES:
 1. CONTRACTOR SHALL LOCATE PROPOSED CONNECTIONS TO EXISTING LATERALS PRIOR TO EXTENDING NEW LATERALS IN ORDER TO MINIMIZE UNNECESSARY BENDS.

SANITARY SEWER LATERAL (PLAN VIEW)
 NO SCALE



NOTES:
 1. EXCAVATE AND PLACE FOUNDATION BACKFILL AT LEAST 6 INCHES BELOW THE BOTTOM OF THE PIPE. IF ROCK, HARDPAN, OR FRAGMENTED MATERIAL EXISTS, THE DEPTH IS THE GREATER OR 6 INCHES BELOW THE PIPE OR TO A DEPTH EQUAL TO 1/2 INCH PER FOOT OF PROPOSED EMBANKMENT ABOVE THE TOP OF THE PIPE.
 2. THE BACKFILL MATERIALS AND METHODS SHALL CONFORM TO THE SPECIFICATIONS.

PIPE BEDDING DETAIL
 NO SCALE



SANITARY SEWER CLEAN-OUT
 NO SCALE

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DOCKWALL DESIGN CRITERIA:

LIVE LOADS:

- UNIFORMLY DISTRIBUTED LIVE LOAD (UDLL): 500 PSF

BULK STOCKPILING:

BULK STOCKPILING BASED ON MATERIAL PROPERTIES IDENTIFIED BELOW. MINIMUM DISTANCE FROM DOCKWALL SHALL BE MEASURED AS THE DISTANCE FROM THE TOE OF THE STOCKPILE TO THE OUTBOARD FACE OF THE DOCKWALL. LOADING IN AREAS NOT USED FOR BULK STOCKPILING SHALL BE LIMITED TO THE UNIFORMLY DISTRIBUTED LIVE LOAD. SEE LOADING DIAGRAMS AND PLAN THIS SHEET.

- COAL:
 - MAXIMUM UNIT WEIGHT: 60 PCF
 - MAXIMUM ANGLE OF REPOSE (θ): 36 DEGREES
 - MAXIMUM STOCKPILE HEIGHT (H): 60 FEET (EQUIVALENT SURCHARGE 3,600 PSF)
 - MINIMUM DISTANCE FROM DOCKWALL (L): 15 FEET
- LIMESTONE (ROAD SALT SIMILAR):
 - MAXIMUM UNIT WEIGHT: 100 PCF
 - MAXIMUM ANGLE OF REPOSE (θ): 45 DEGREES
 - MAXIMUM STOCKPILE HEIGHT (H): 40 FEET (EQUIVALENT SURCHARGE 4,000 PSF)
 - MINIMUM DISTANCE FROM DOCKWALL (L): 50 FEET

DESIGN VESSEL:	DESIGN	MAXIMUM
- LENGTH OVERALL	740 FEET	1000 FEET
- LENGTH BETWEEN PERPENDICULARS	730 FEET	
- BEAM	78 FEET	105 FEET
- DESIGN DRAFT	22 FEET	
- DISPLACEMENT	30,000 TONS	45,000 TONS
- OFFLOADER REACH	MAX 300 FEET	MIN 230 FEET

BERTH DEPTH:

- DESIGN BERTH DEPTH: 24 FT (ELEV. 554.0)
- OVERDREDGE TOLERANCE: 2 FT (ELEV. 552.0)

SEISMIC DESIGN:

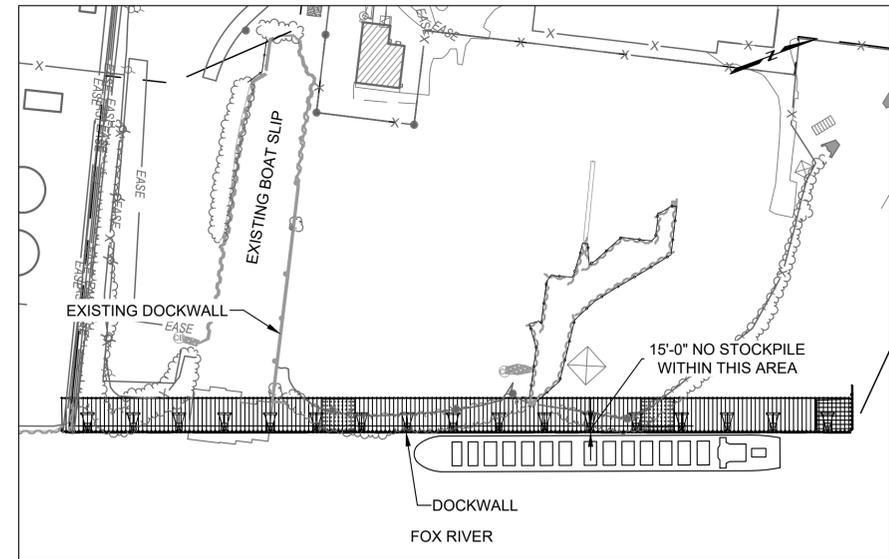
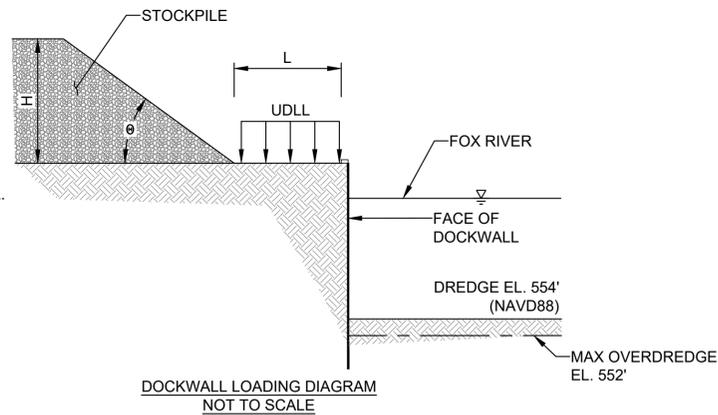
- RISK CATEGORY II
- SITE CLASS E
- PGA 0.024
- S_s 0.052
- S₁ 0.033
- F_{PGA} 1.6
- F_a 1.6
- F_v 2.4
- PGA_m 0.061
- S_{ms} 0.084
- S_{m1} 0.08
- PGA_D 0.041
- S_{DS} 0.056
- S_{D1} 0.053

STRUCTURAL STEEL AND MISCELLANEOUS METALS:

- STRUCTURAL STEEL SHALL BE DESIGNED IN ACCORDANCE WITH AISC SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS
- STEEL SHALL CONFORM TO THE FOLLOWING ASTM GRADES:
 - STEEL SHEETPILES SEE BELOW
 - HOLLOW TUBE A-500, GRADE C
 - HIGH STRENGTH BOLTS F3125, GRADE A325
 - ALL-THREADED BAR ASTM A615 GRADE 75/80
 - ALL OTHER STRUCTURAL STEEL A592 GRADE 50 (F_y - 50 KSI) UNO
- WELDING SHALL CONFORM TO AWS
 - WELDING ELECTRODES AWS E70XX
- ALL NEW STEEL HARDWARE AND FABRICATIONS SHALL BE HOT DIPPED GALVANIZED AND CONFORM TO ASTM A-123 AND/OR A-153 UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL COORDINATE ALL DIMENSIONS SHOWN ON THE PLANS WITH THE VARIOUS TRADES, SIZE OF UNITS AND EXISTING CONDITIONS BEFORE DETAILING AND FABRICATING STEEL.
- STAINLESS STEEL SHALL BE SERIES 300, TYPE 316 UNLESS OTHERWISE NOTED.

STEEL SHEET PILE DOCKWALL:

- ALL STEEL FOR STEEL SHEET PILE DOCKWALL SHALL CONFORM TO ASTM A572 GR.60, MINIMUM YIELD STRESS OF 60 KSI.
 - TIP EL. SEE DRAWINGS
 - ALL STEEL PILES SHALL HAVE A MINIMUM STEEL THICKNESS OF 3/8" ON BOTH WEB AND FLANGE UNLESS A GREATER THICKNESS IS SPECIFIED ELSEWHERE.
- TYPE 1 DOCKWALL (COMBI-WALL) SYSTEM SHALL CONSIST OF PIPE 54"Ø X 11/16" WALL KING PILES SPACED AT MAXIMUM 9.4' ON CENTER WITH STEEL SHEET PILES MEETING THE CRITERIA BELOW:
 - MINIMUM SECTION MODULUS SHALL BE EQUIVALENT TO 170 CUBIC INCHES PER LINEAR FOOT OF INSTALLED COMBINATION WALL.
 - MINIMUM MOMENT OF INERTIA SHALL BE 4,500 IN⁴ PER LINEAR FOOT OF INSTALLED COMBINATION WALL.
 - KING PILE SHALL HAVE A MINIMUM MOMENT OF INERTIA OF 40,900 IN⁴
- STEEL WALE INCLUDING ALL WASHER PLATES, SPLICE PLATES, FASTENERS, ETC. SHALL BE HOT DIP GALVANIZED UNLESS NOTED OTHERWISE.
- TIE RODS SHALL HAVE A MINIMUM ULTIMATE STRENGTH OF 960 KIPS (EQUIVALENT TO 103 KIPS/FT) AND A MINIMUM YIELD STRENGTH OF 720 KIPS (EQUIVALENT TO 76.5 KIPS/FT)
- ARTICULATED BAR COUPLERS SHALL BE DESIGNED BY THE MANUFACTURER TO DEVELOP A MINIMUM OF 1.25 TIMES THE ULTIMATE TIE ROD BAR STRENGTH.
- ANCHOR WALL
 - SHALL CONSIST OF NZ19 STEEL SHEET PILES OR EQUIVALENT MEETING THE CRITERIA BELOW:
 - MINIMUM SECTION MODULUS SHALL BE EQUIVALENT TO 35.08 CUBIC INCHES PER LINEAR FOOT OF INSTALLED ANCHOR WALL.
 - MINIMUM MOMENT OF INERTIA SHALL BE 283.1 IN⁴ PER LINEAR FOOT OF INSTALLED ANCHOR WALL.



PLAN
ALLOWABLE STOCKPILE AREA SCALE: 1" = 200'

ABBREVIATIONS

ABN/ABAN	ABANDONED	N/F	NOW OR FORMERLY
B	BOTTOM	PED	PEDESTRIAN
BIT	BITUMINOUS	PW	POTABLE WATER
BM	BENCHMARK	ℙ	PROPERTY LINE
CB	CATCH BASIN	SS	SANITARY SEWER
CIP	CAST IN PLACE	SGE	SLOPED GRANITE EDGING
CLF	CHAIN LINK FENCE	SL	STOP LINE
CONC	CONCRETE	STR	STAIRS
CW	CROSSWALK	SW	SIDEWALK
DBYL	DOUBLE YELLOW LINE	SWL	SOLID WHITE LINE
EP	EDGE OF PAVEMENT	SYL	SOLID YELLOW LINE
EF	EACH FACE	T	TOP
EL	ELEVATION	TOW	TOP OF WALL
EW	EACH WAY	UHMW	ULTRA HIGH MOLECULAR WEIGHT
EXTG	EXISTING	UNO	UNLESS NOTED OTHERWISE
FP	FIRE PROTECTION	VGC	VERTICAL GRANITE CURB
GRAN	GRANITE	VLF	VINYL FENCE
INV	INVERT		
LBS	POUNDS		
LOC	LIMIT OF CONSTRUCTION		

GEOTEXTILE

- SEPARATION GEOTEXTILE: WOVEN GEOTEXTILE FABRIC, MANUFACTURED FOR SEPARATION APPLICATIONS, MADE FROM POLYOLEFINS OR POLYESTERS; WITH ELONGATION LESS THAN 50 PERCENT; COMPLYING WITH AASHTO M 228 AND THE FOLLOWING, MEASURED PER TEST METHODS REFERENCED:
 - SURVIVABILITY: CLASS 2; AASHTO M 288
 - GRAB TENSILE STRENGTH: 247 LBF; ASTM D 4632
 - SEWN SEAM STRENGTH: 222 LBF; ASTM D 4632
 - TEAR STRENGTH: 90 LBF; ASTM D 4533
 - PUNCTURE STRENGTH: 90 LBF; ASTM D 4833
 - PUNCTURE STRENGTH: 90 LBF; ASTM D 4833
 - APPARENT OPENING SIZE: NO. 60 SIEVE, MAXIMUM; ASTM D 4751
 - PERMITTIVITY: 0.02 OER SECOND, MINIMUM; ASTM D 4491
 - UV STABILITY: 50 PERCENT AFTER 500 HOURS EXPOSURE; ASTM D 4355

LAKE MICHIGAN DATUM
(MENOMINEE, MI STATION ID 9087088)

MAXIMUM HIGH WATER (MAX HW) JUNE 2020	+583.70
CHART DATUM/LOW WATER (IGLD85 +577.50)	+577.94
MINIMUM LOW WATER (MIN LW) JAN 2013	+575.30
IGLD85	+0.44
NAVD88 (THIS PLAN SET)	0.00



P.E. No.:	
Approved:	MJV
Checked:	ADP
Drawn:	JSF
Designed:	EB
GEI Project	2201593

Attention: 1"
 0 1" scale bar
 If this scale bar does not measure 1" then drawing is not original scale.

NO.	DATE	ISSUE/REVISION	APP.
0	1/27/2026	FOR CONSTRUCTION	MJV

SHEET NAME

**DOCKWALL
 GENERAL NOTES**

SHEET NO.

SM001

FOR CONSTRUCTION



P.E. No.:
 Approved: MJV
 Checked: ADP
 Drawn: JSF
 Designed: EB
 GEI Project 2201593

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0	1/27/2026	FOR CONSTRUCTION	MJV

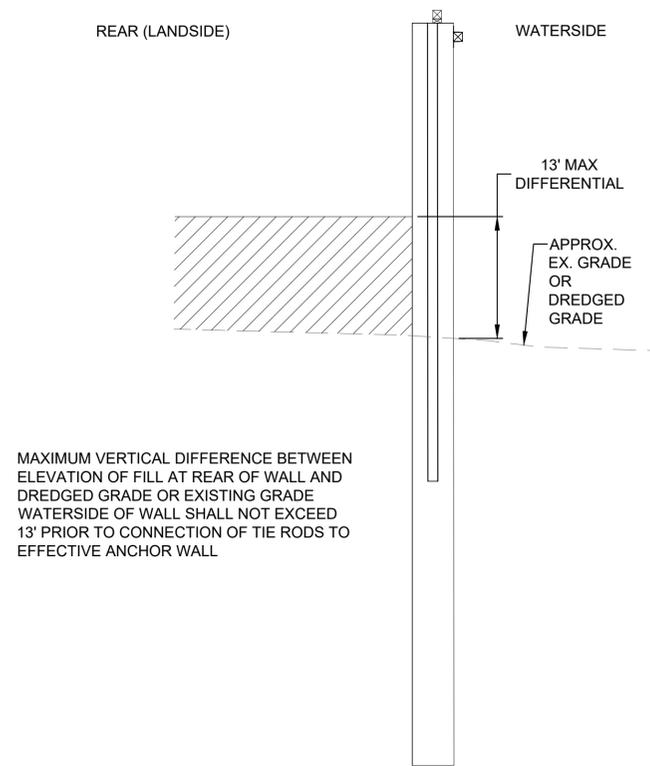
SHEET NAME

**DOCKWALL
 SEQUENCING
 CONSTRAINTS**

SHEET NO.

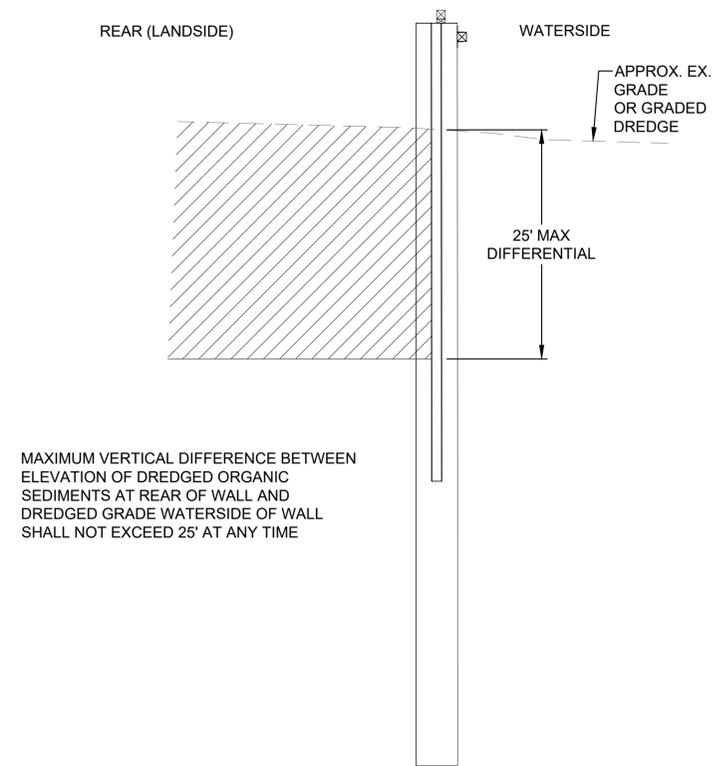
SM002

FOR CONSTRUCTION



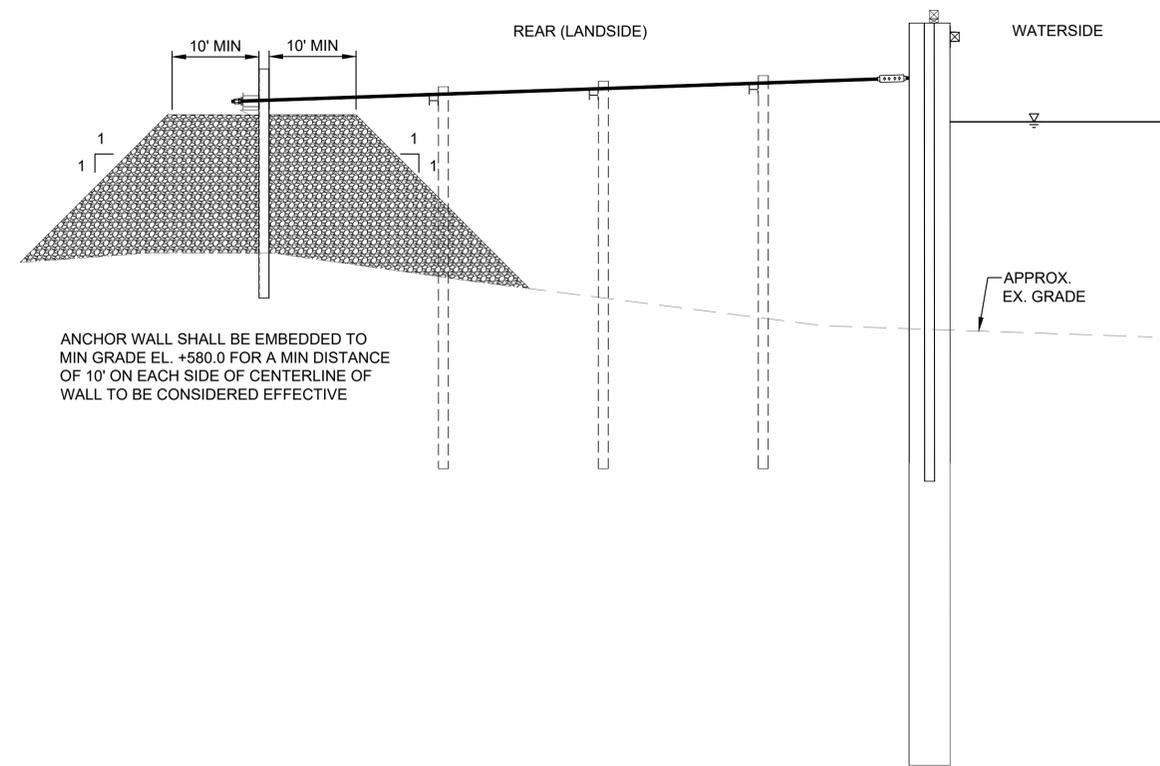
MAXIMUM VERTICAL DIFFERENCE BETWEEN ELEVATION OF FILL AT REAR OF WALL AND DREDGED GRADE OR EXISTING GRADE WATERSIDE OF WALL SHALL NOT EXCEED 13' PRIOR TO CONNECTION OF THE RODS TO EFFECTIVE ANCHOR WALL

A SECTION
 FILLING / DREDGING UNSUPPORTED WALL
 NO SCALE



MAXIMUM VERTICAL DIFFERENCE BETWEEN ELEVATION OF DREDGED ORGANIC SEDIMENTS AT REAR OF WALL AND DREDGED GRADE WATERSIDE OF WALL SHALL NOT EXCEED 25' AT ANY TIME

B SECTION
 DREDGING REAR OF UNSUPPORTED WALL
 NO SCALE



ANCHOR WALL SHALL BE EMBEDDED TO MIN GRADE EL. +580.0 FOR A MIN DISTANCE OF 10' ON EACH SIDE OF CENTERLINE OF WALL TO BE CONSIDERED EFFECTIVE

C SECTION
 EFFECTIVE ANCHOR WALL
 NO SCALE

NOTES:

1. THE CONTRACTOR SHALL PREPARE A SEQUENCING PLAN FOR EACH STAGE OF WALL INSTALLATION, FILLING AND DREDGING WHICH SHALL COMPLY WITH THE SEQUENCING REQUIREMENTS ON THIS DRAWING. NO WORK SHALL COMMENCE UNTIL THE SEQUENCING PLAN HAS BEEN APPROVED.
2. THE CONTRACTOR'S SEQUENCING PLAN SHALL INCLUDE CONTINUOUS MONITORING OF THE DOCK WALL AND ANCHOR WALL DURING ALL FILLING AND DREDGING OPERATIONS.



P.E. No.:
 Approved: MJV
 Checked: ADP
 Drawn: JSF
 Designed: EB
 GEI Project 2201593

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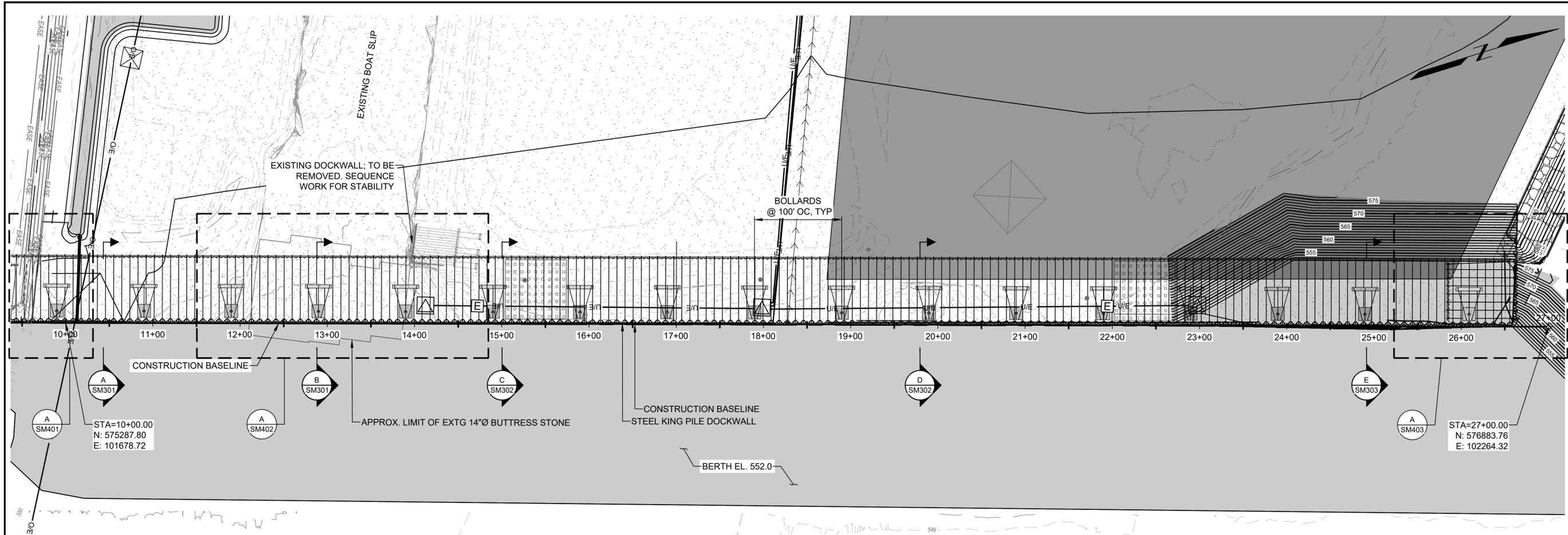
NO.	DATE	FOR CONSTRUCTION	MJV
0	1/27/2026	FOR CONSTRUCTION	MJV
		ISSUE/REVISION	APP

SHEET NAME

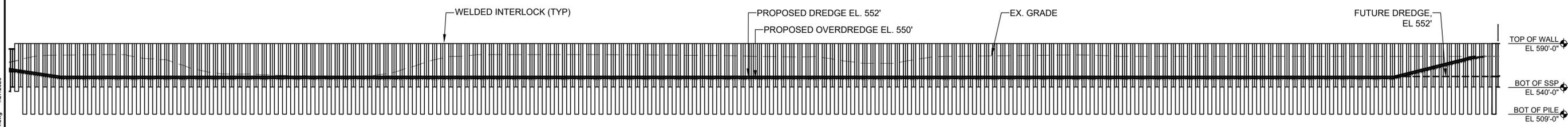
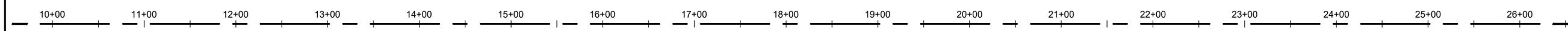
DOCKWALL PLAN & ELEVATION

SHEET NO.

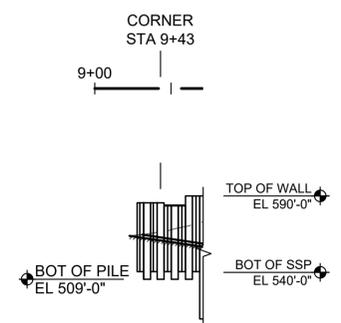
SM101



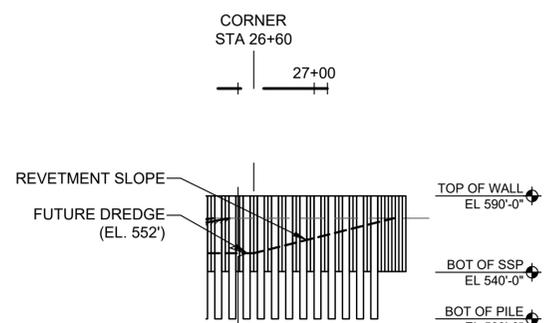
A PLAN DOCKWALL SCALE: 1" = 60'



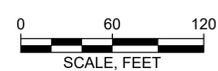
B ELEVATION DOCKWALL SCALE: 1" = 60'



C ELEVATION DOCKWALL AT SOUTH END SCALE: 1" = 60'



D ELEVATION DOCKWALL AT NORTH END SCALE: 1" = 60'



FOR CONSTRUCTION

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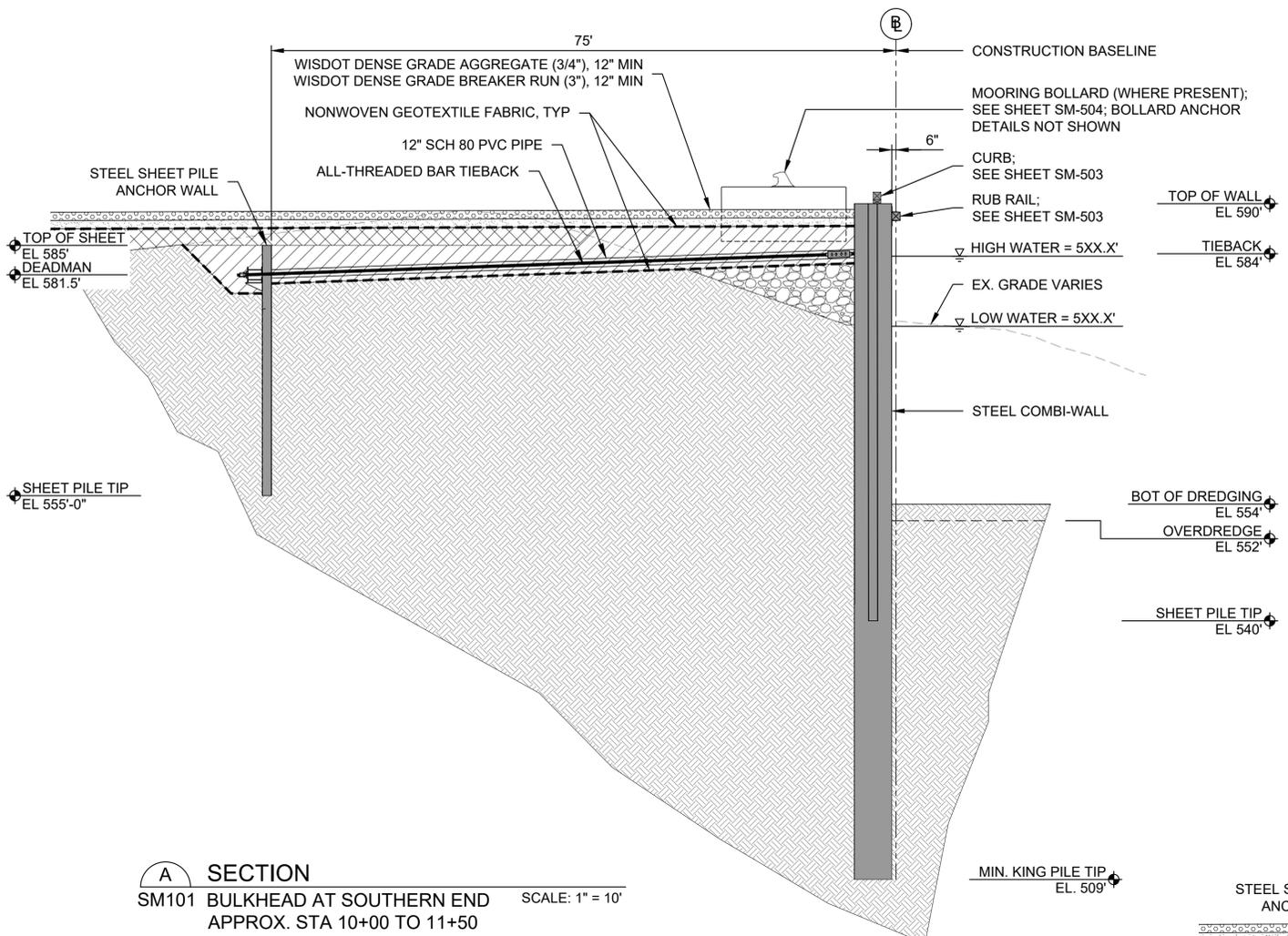


P.E. No.:	
Approved:	MJV
Checked:	ADP
Drawn:	JSF
Designed:	EB
GEI Project	2201593

Attention: 1"			
If this scale bar does not measure 1" then drawing is not original scale.			
0	10	20	
NO.	DATE	FOR CONSTRUCTION	MJV
		ISSUE/REVISION	APP

SHEET NAME	
DOCKWALL SECTIONS - SHEET 1 OF 3	
SHEET NO.	
SM301	

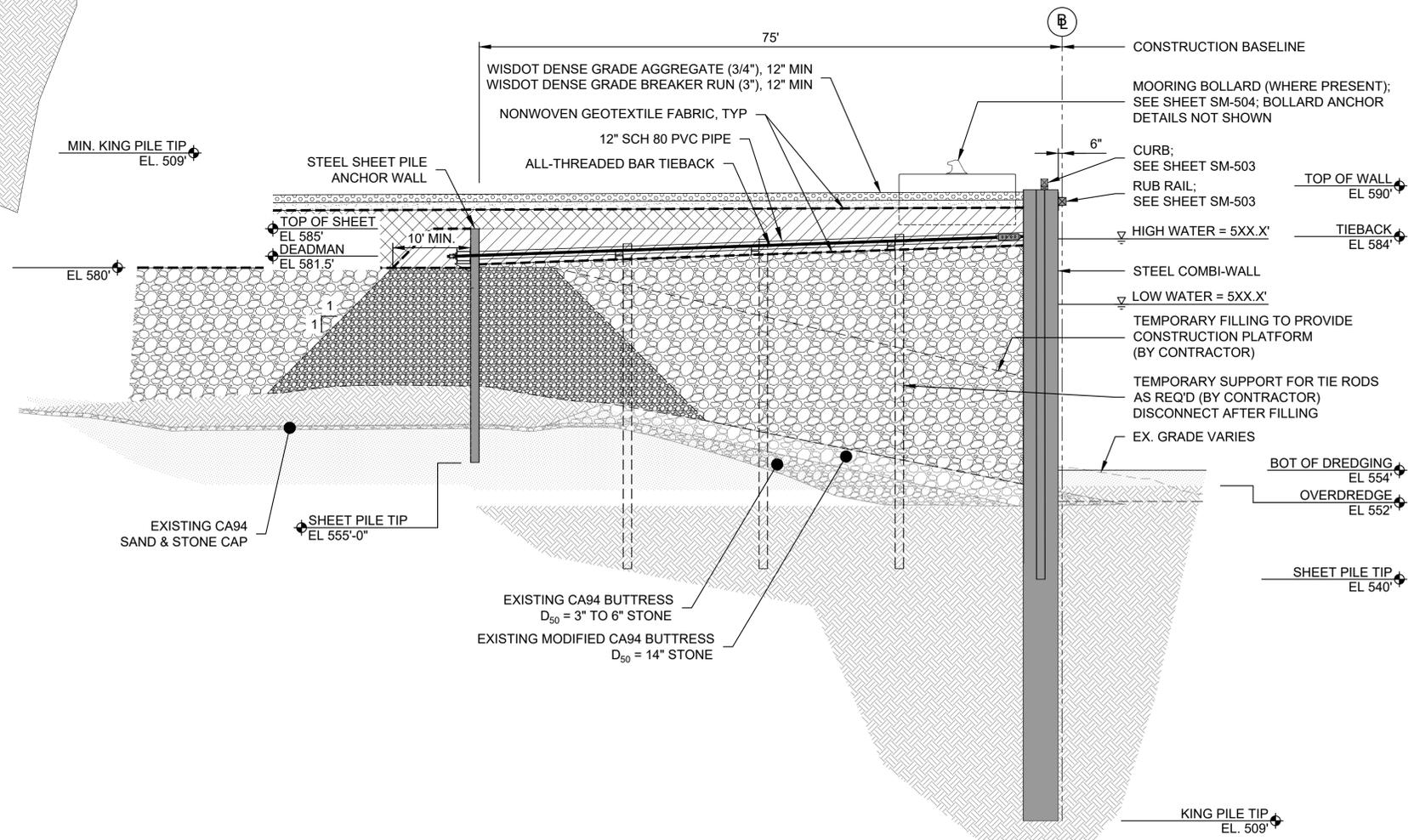
FOR CONSTRUCTION



A SECTION
 SM101 BULKHEAD AT SOUTHERN END
 APPROX. STA 10+00 TO 11+50
 SCALE: 1" = 10'

MATERIALS LEGEND

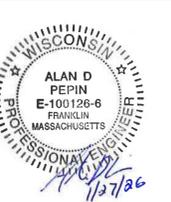
	MARINE STONE FILL (6" - 12" STONE)
	CRUSHED STONE (1-1/4" STONE)
	MARINE STRUCTURAL FILL
	DENSE-GRADE CRUSHED STONE
	BREAKER RUN
	ENGINEERED FILL (PROCESSED CLAY)
	CONCRETE
	EXISTING CONCRETE
	CONTAMINATED EXISTING SOIL
	EXISTING SOILS
	HMA PAVEMENT



B SECTION
 SM101 AT FORMER BOAT SLIP
 APPROX. STA 11+50 TO 14+50
 SCALE: 1" = 10'



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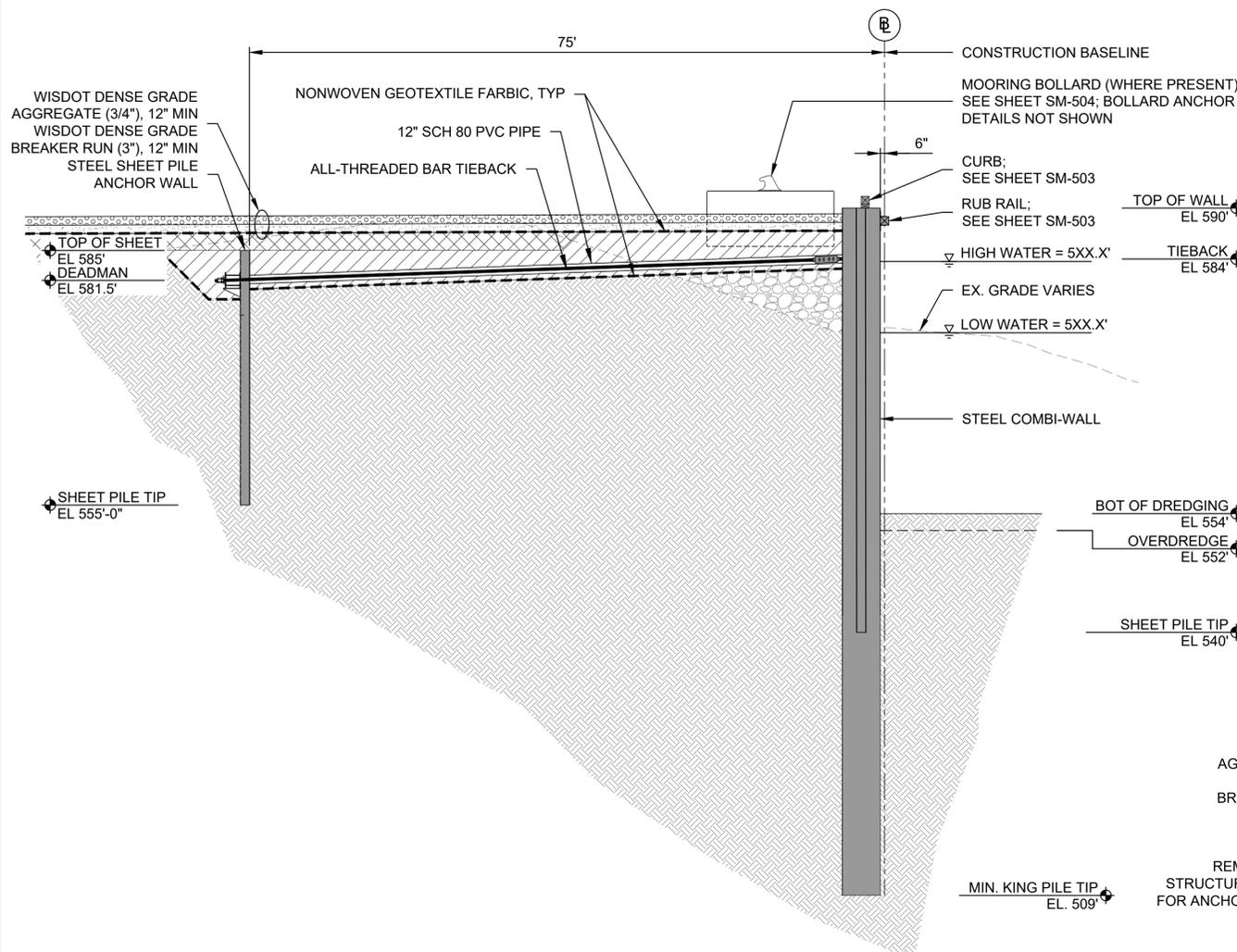
P.E. No.:
 Approved: MJV
 Checked: ADP
 Drawn: JSF
 Designed: EB
 GEI Project 2201593

Attention: 1"
 0 10 20
 If this scale bar does not measure 1" then drawing is not original scale.

NO.	DATE	ISSUE/REVISION	APP.
0	1/27/2026	FOR CONSTRUCTION	MJV

SHEET NAME
DOCKWALL SECTIONS - SHEET 2 OF 3

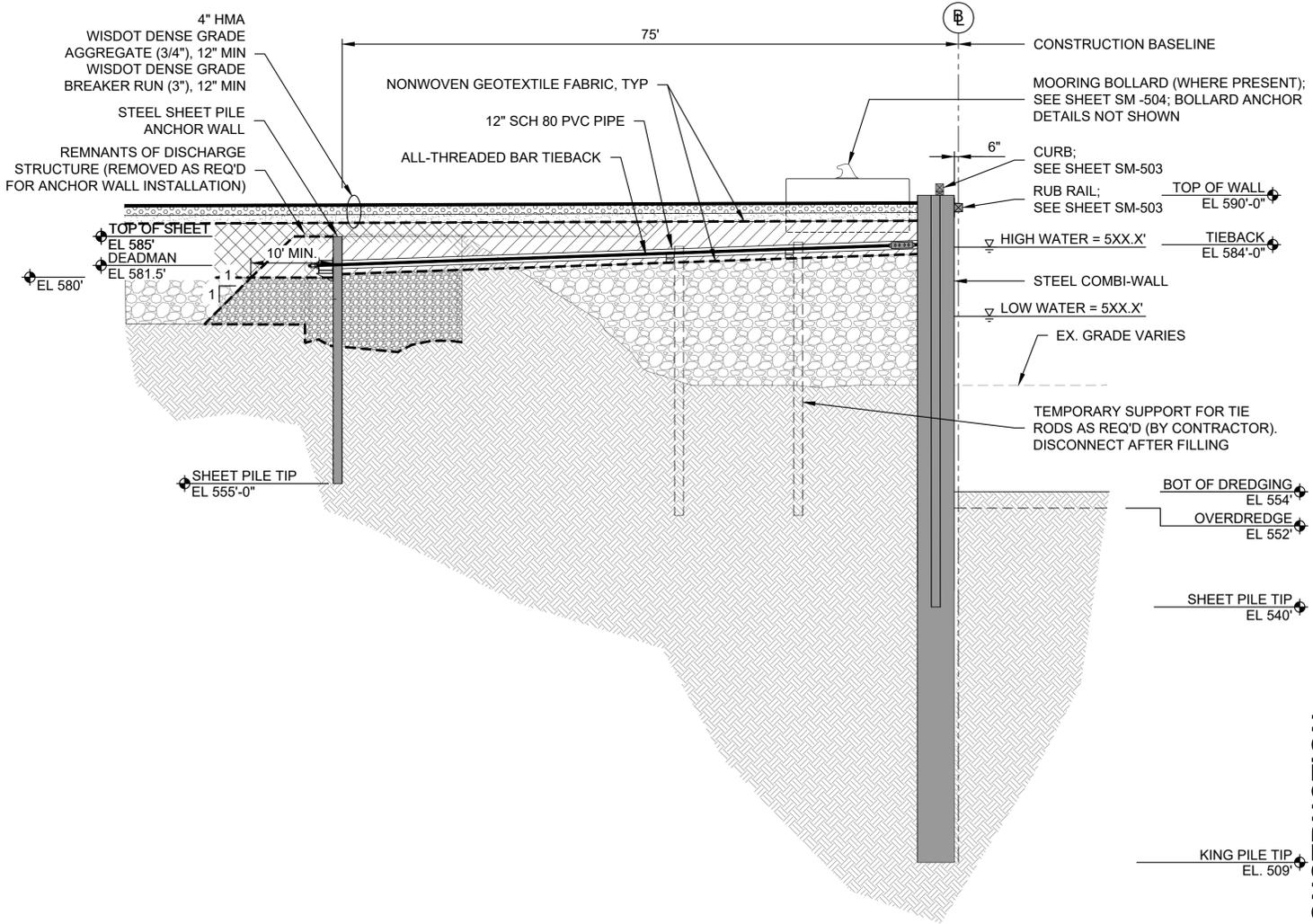
SHEET NO.
SM302



C SECTION
 SM101 TYPICAL DOCKWALL
 APPROX. STA 14+50 TO 19+00
 STA 20+50 TO 22+00 SIMILAR (WITH HMA PAVING)
 SCALE: 1" = 10'

MATERIALS LEGEND

	MARINE STONE FILL (6" - 12" STONE)
	CRUSHED STONE (1-1/4" STONE)
	MARINE STRUCTURAL FILL
	DENSE-GRADE CRUSHED STONE
	BREAKER RUN
	ENGINEERED FILL (PROCESSED CLAY)
	CONCRETE
	EXISTING CONCRETE
	CONTAMINATED EXISTING SOIL
	EXISTING SOILS
	HMA PAVEMENT



D SECTION
 SM101 AT DISCHARGE SLIP
 APPROX. STA 19+25 TO 20+50
 SCALE: 1" = 10'

0 10 20
 SCALE, FEET

FOR CONSTRUCTION

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 Drawn: JSF
 Designed: EB
 GEI Project 2201593

Attention: 1"
 0 10 20
 SCALE, FEET
 If this scale bar does not measure 1" then drawing is not original scale.

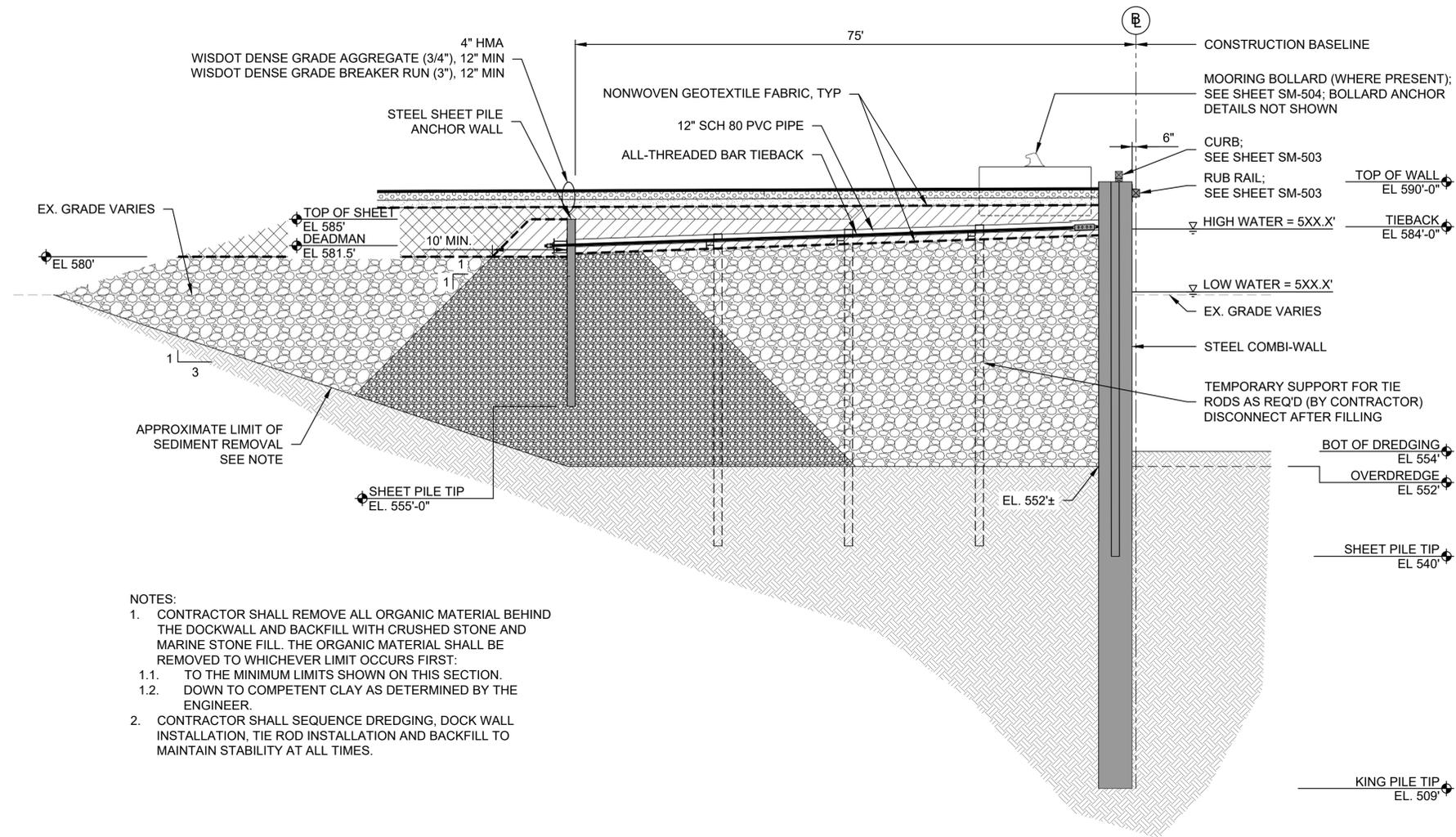
NO.	DATE	FOR CONSTRUCTION	MJV
0	1/27/2026	FOR CONSTRUCTION	MJV
		ISSUE/REVISION	APP

SHEET NAME

**DOCKWALL
 SECTIONS -
 SHEET 3 OF 3**

SHEET NO.

SM303



- NOTES:
- CONTRACTOR SHALL REMOVE ALL ORGANIC MATERIAL BEHIND THE DOCKWALL AND BACKFILL WITH CRUSHED STONE AND MARINE STONE FILL. THE ORGANIC MATERIAL SHALL BE REMOVED TO WHICHEVER LIMIT OCCURS FIRST:
 - TO THE MINIMUM LIMITS SHOWN ON THIS SECTION.
 - DOWN TO COMPETENT CLAY AS DETERMINED BY THE ENGINEER.
 - CONTRACTOR SHALL SEQUENCE DREDGING, DOCK WALL INSTALLATION, TIE ROD INSTALLATION AND BACKFILL TO MAINTAIN STABILITY AT ALL TIMES.

E SECTION
 SM101 DOCKWALL IN OPEN WATER SCALE: 1" = 10'
 APPROX. STA 22+00 TO 26+00

MATERIALS LEGEND

- MARINE STONE FILL (6" - 12" STONE)
- CRUSHED STONE (1-1/4" STONE)
- MARINE STRUCTURAL FILL
- DENSE-GRADE CRUSHED STONE
- BREAKER RUN
- ENGINEERED FILL (PROCESSED CLAY)
- CONCRETE
- EXISTING CONCRETE
- CONTAMINATED EXISTING SOIL
- EXISTING SOILS
- HMA PAVEMENT

FOR CONSTRUCTION



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 Approved: MJV
 Checked: ADP
 Drawn: JSF
 Designed: EB
 GEI Project 2201593

Attention: 1"
 0 1" scale bar
 If this scale bar does not measure 1" then drawing is not original scale.

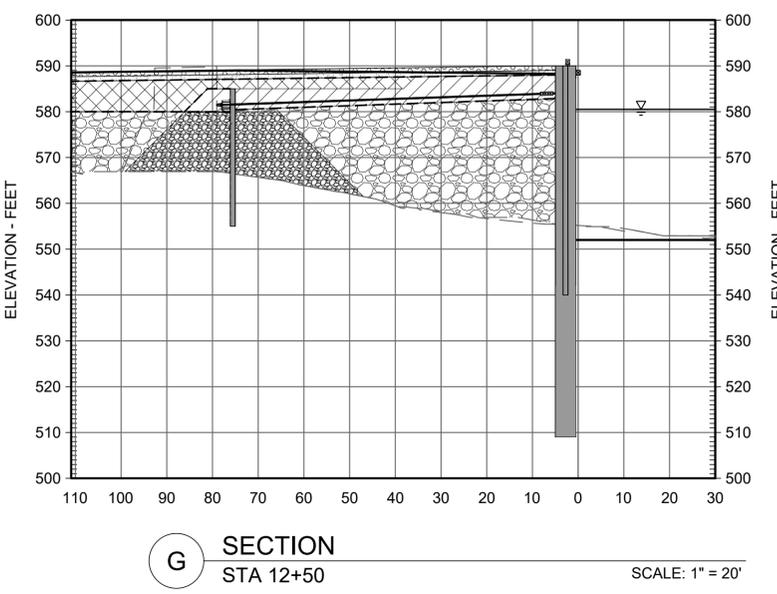
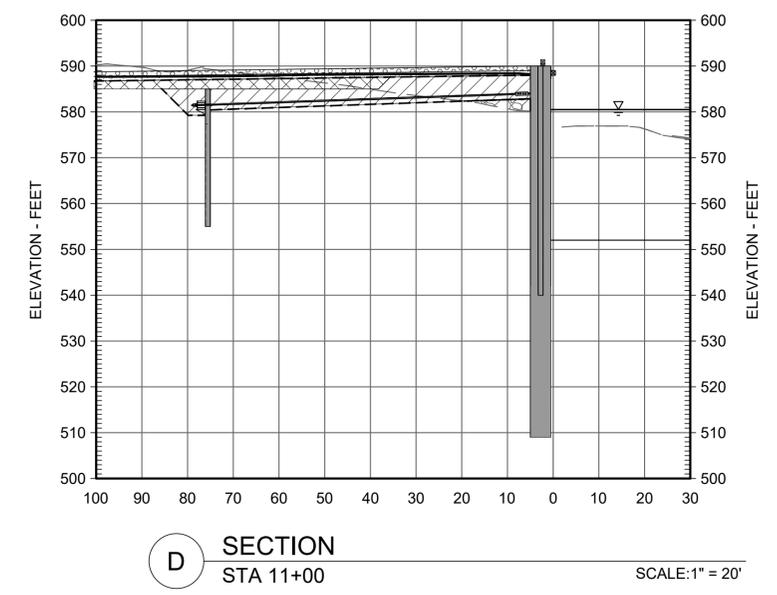
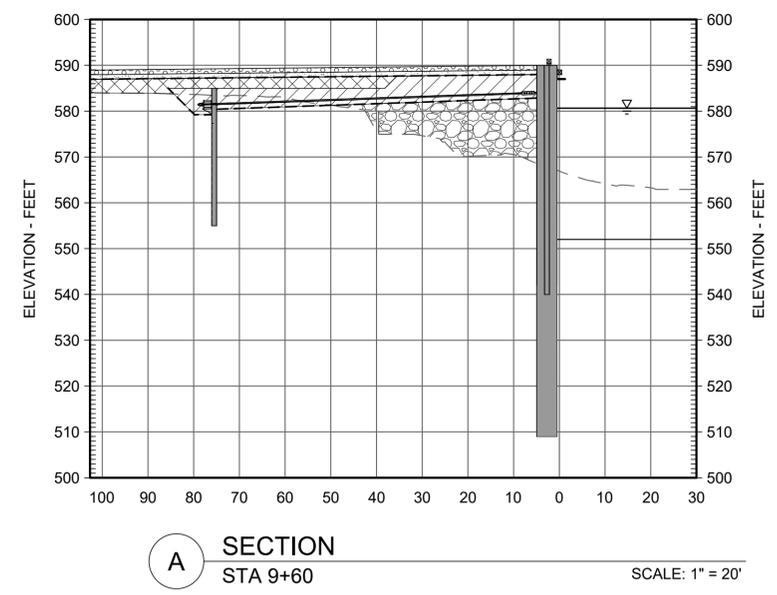
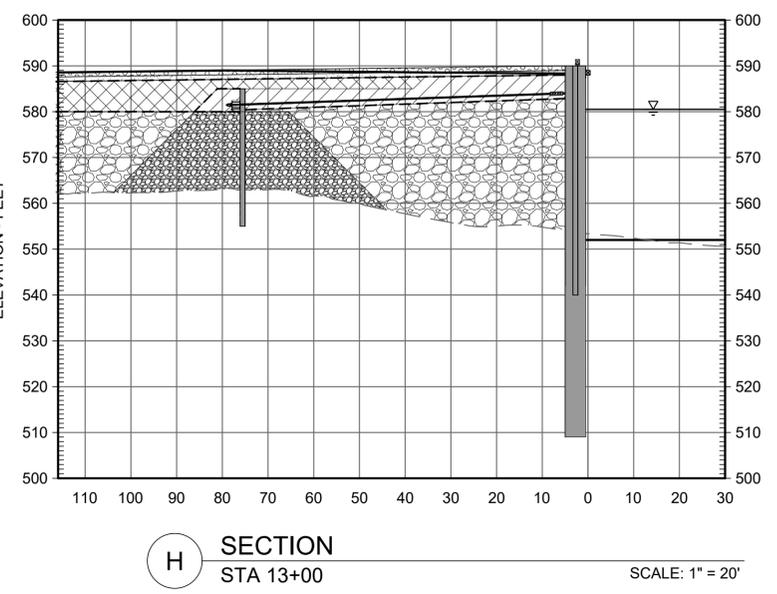
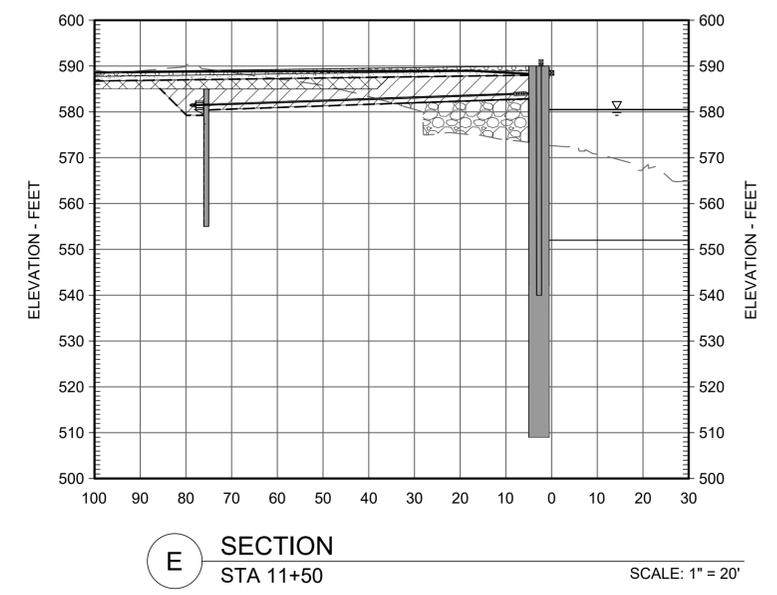
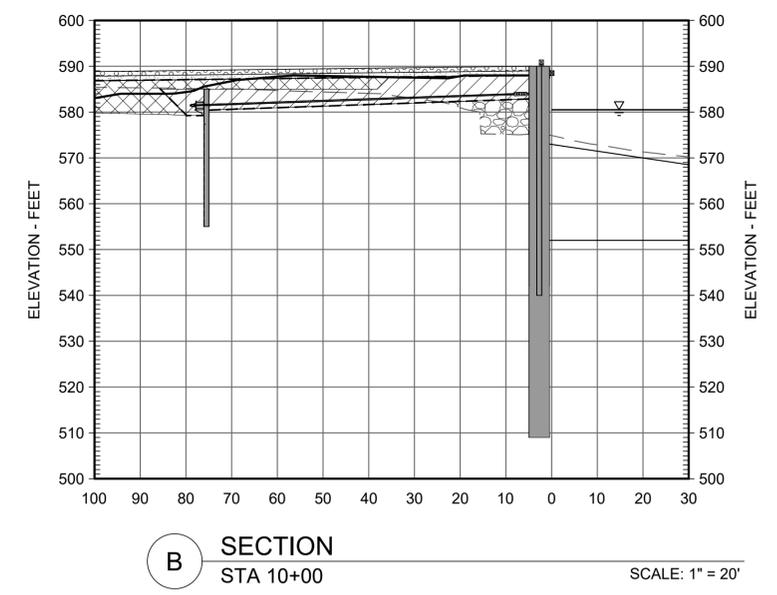
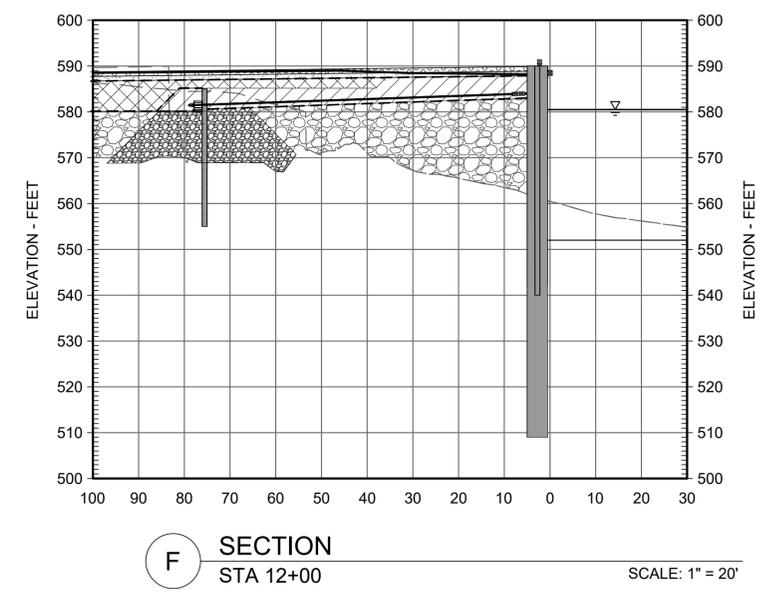
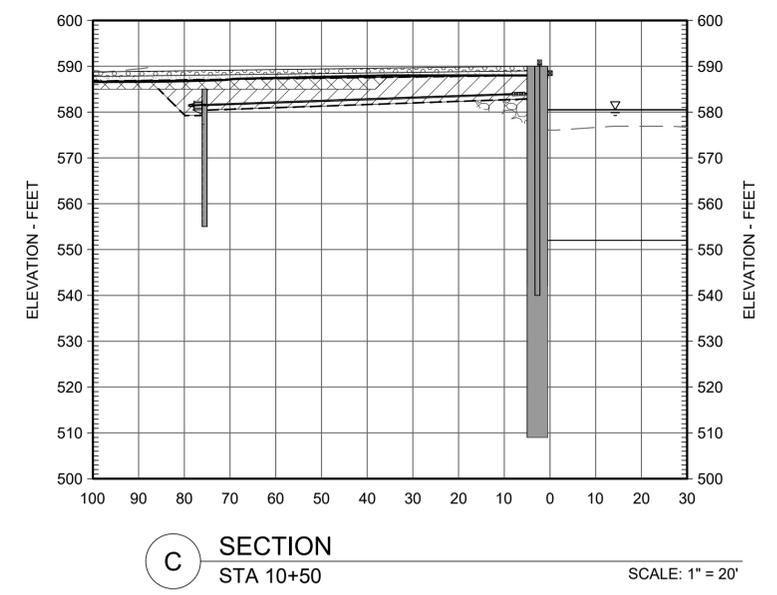
NO.	DATE	ISSUE/REVISION	MJV APP
0	1/27/2026	FOR CONSTRUCTION	MJV

SHEET NAME

**SECTIONS -
 SHEET 1 OF 4**

SHEET NO.

SM311

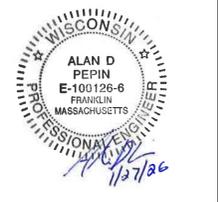


NOTE:
 SEE SHEETS SM301 THRU SM303 FOR
 MATERIAL HATCH LEGEND.



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 Approved: MJV
 Checked: ADP
 Drawn: JSF
 Designed: EB
 GEI Project 2201593

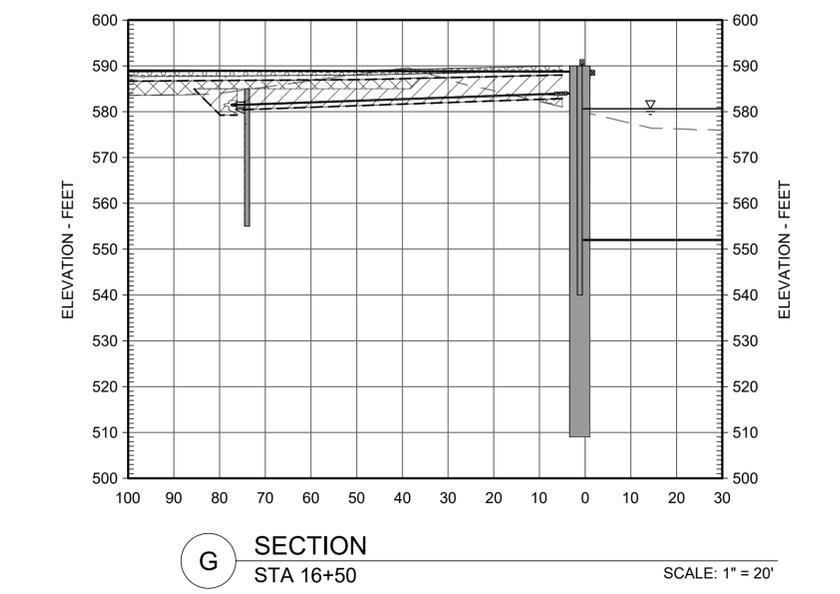
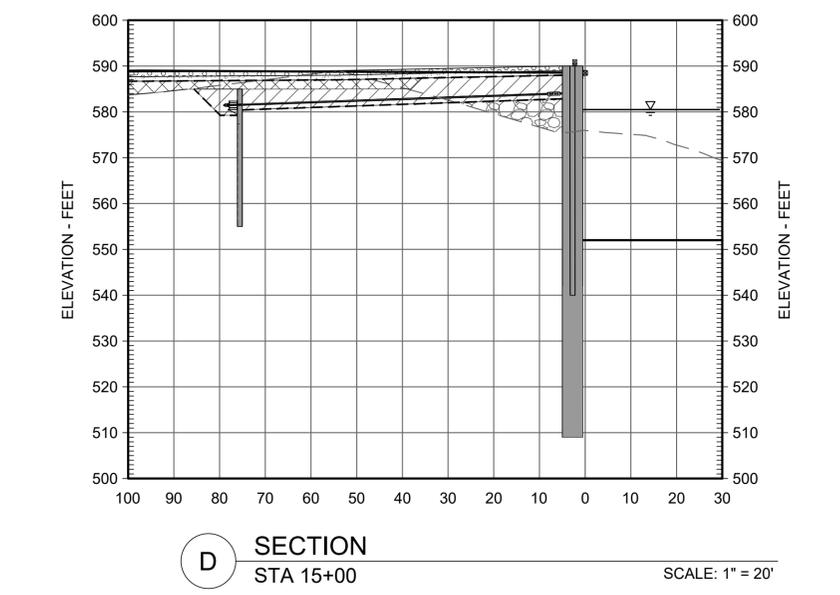
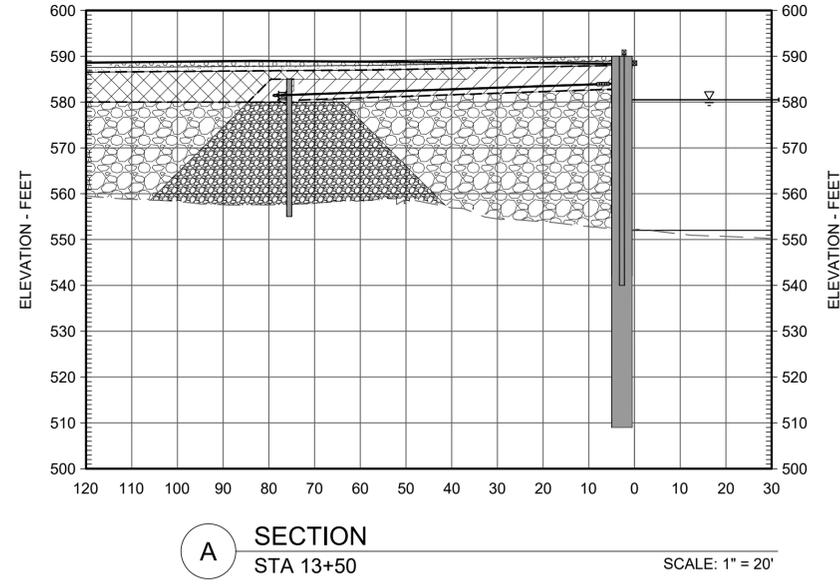
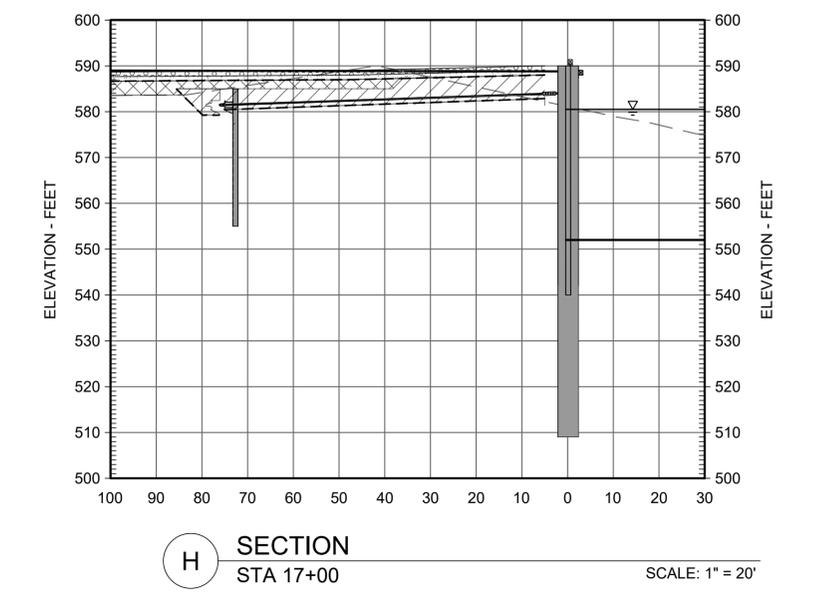
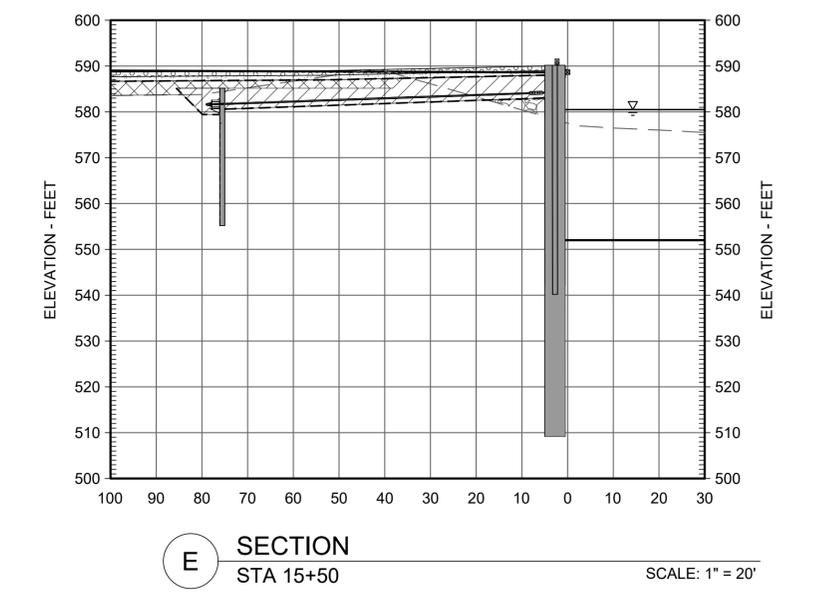
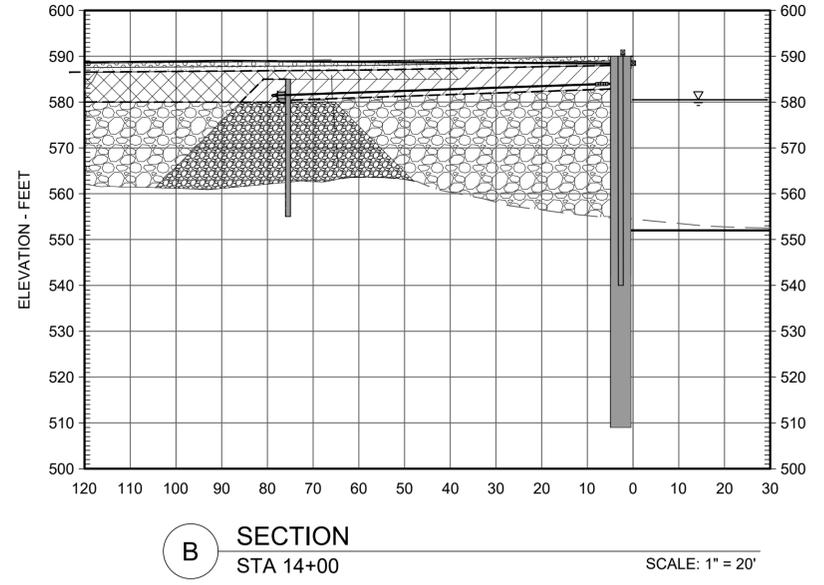
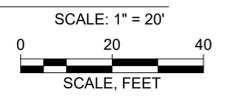
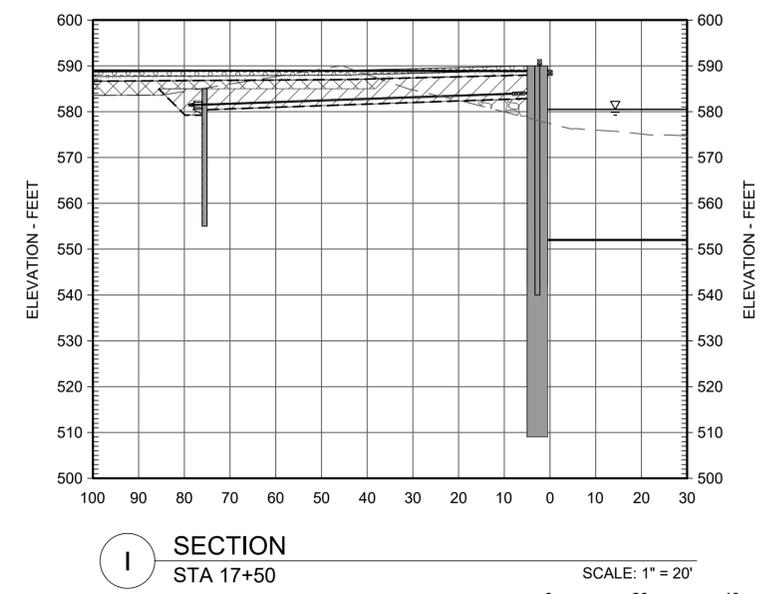
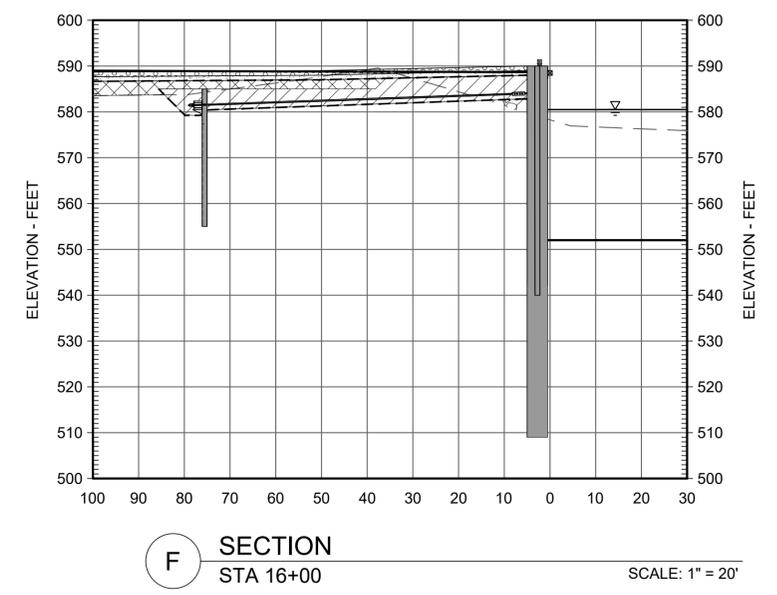
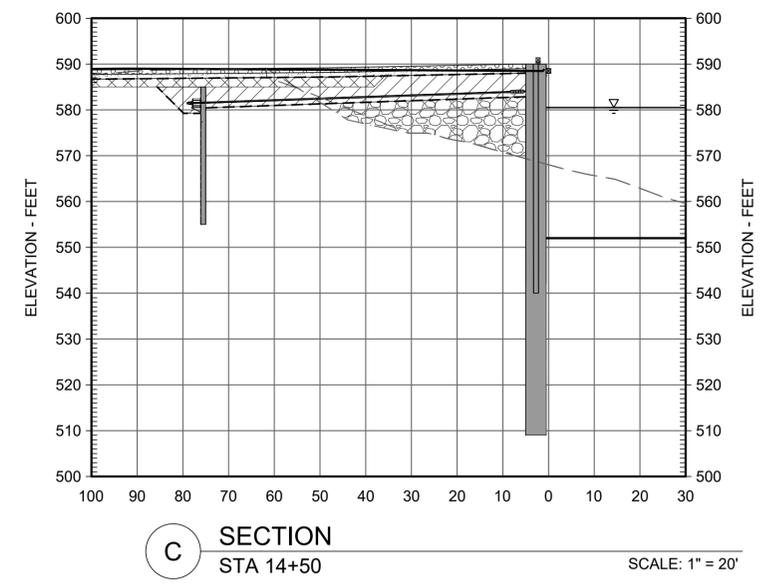
Attention: 1"
 0 10 20 30 40
 If this scale bar does not measure 1" then drawing is not original scale.

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0	1/27/2026	FOR CONSTRUCTION	MJV

SHEET NAME
**SECTIONS -
 SHEET 2 OF 4**

SHEET NO.
SM312

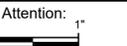
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If this scale bar does not measure 1' then drawing is not original scale.

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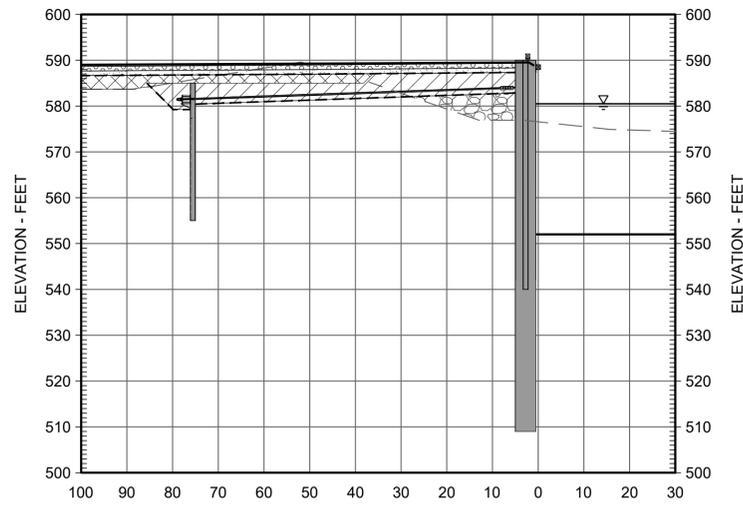
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SECTIONS -
 SHEET 3 OF 4

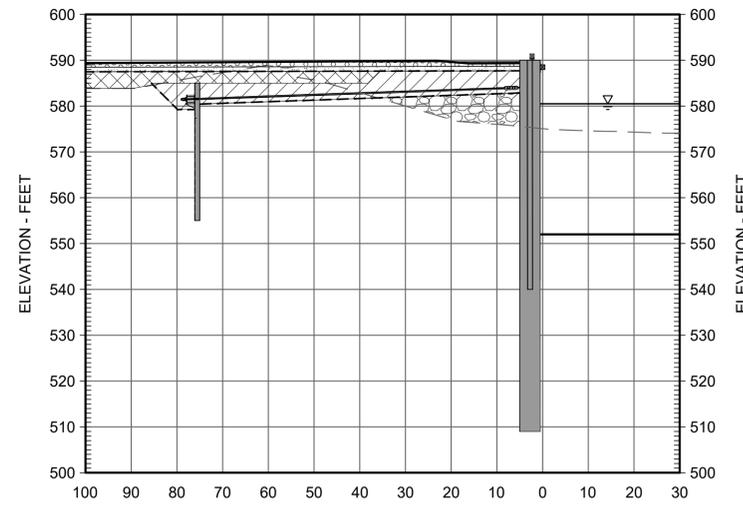
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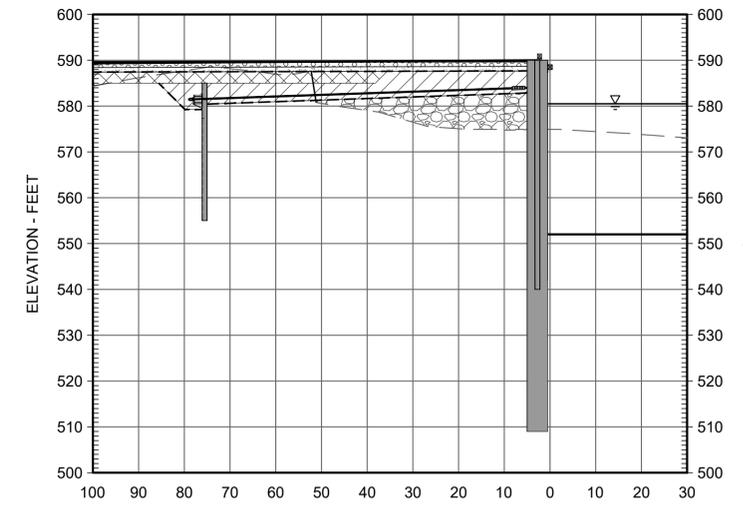
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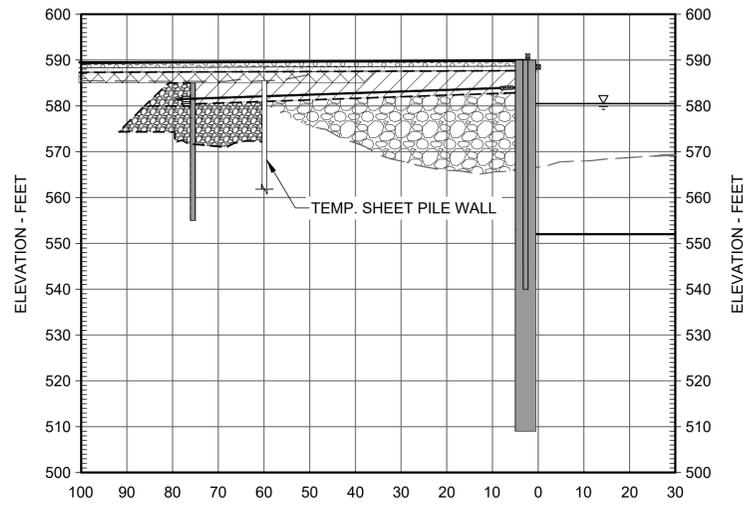
A SECTION
 STA 18+00
 SCALE: 1" = 20'



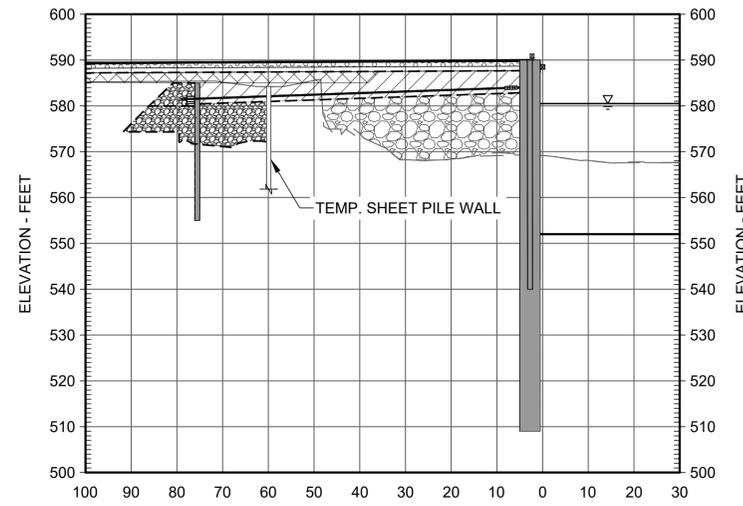
B SECTION
 STA 18+50
 SCALE: 1" = 20'



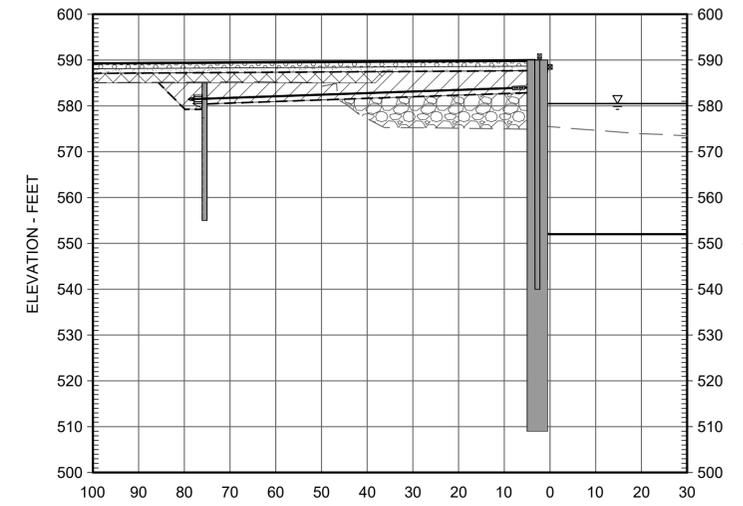
C SECTION
 STA 19+00
 SCALE: 1" = 20'



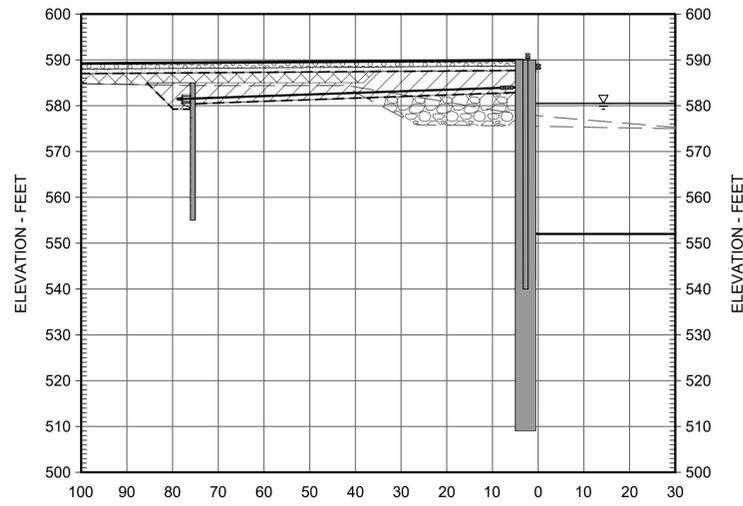
D SECTION
 STA 19+50
 SCALE: 1" = 20'



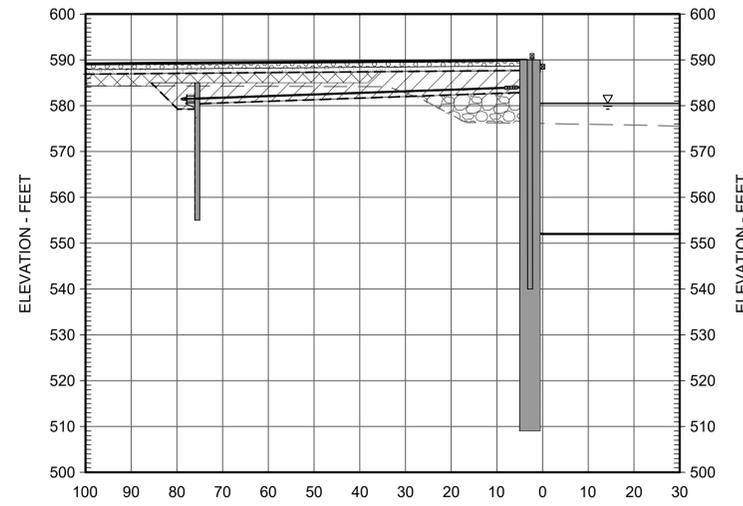
E SECTION
 STA 20+00
 SCALE: 1" = 20'



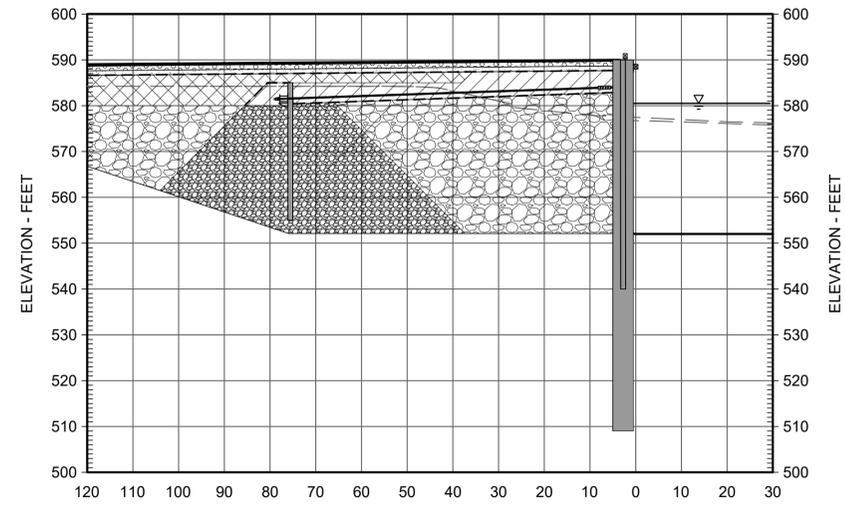
F SECTION
 STA 20+50
 SCALE: 1" = 20'



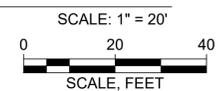
G SECTION
 STA 21+00
 SCALE: 1" = 20'



H SECTION
 STA 21+50
 SCALE: 1" = 20'



I SECTION
 STA 22+00
 SCALE: 1" = 20'





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 Checked: ADP
 Drawn: JSF
 Designed: EB
 GEI Project 2201593

Attention: 1"
 0 1" scale bar
 If this scale bar does not measure 1" then drawing is not original scale.

NO.	DATE	ISSUE/REVISION	APP
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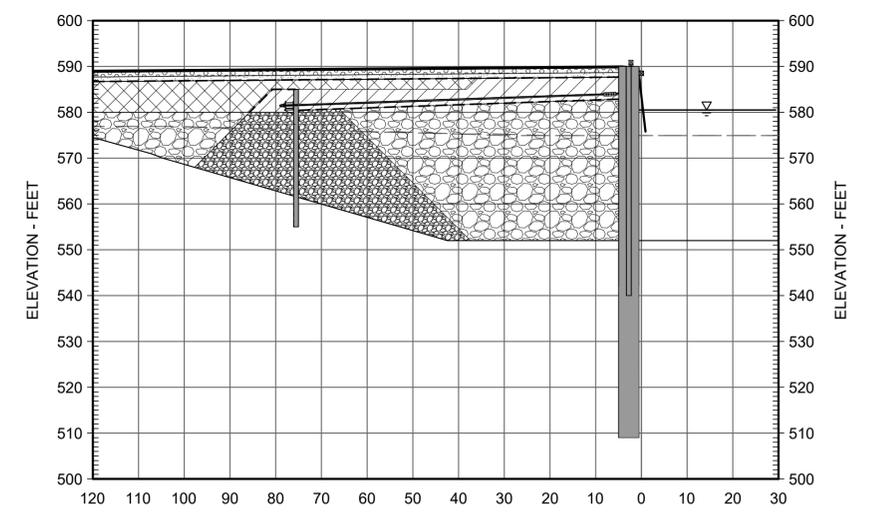
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**SECTIONS -
 SHEET 4 OF 4**

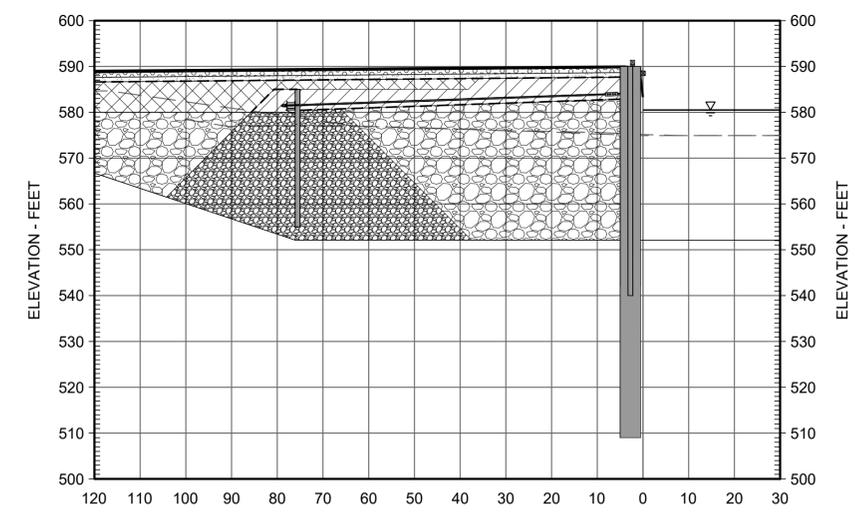
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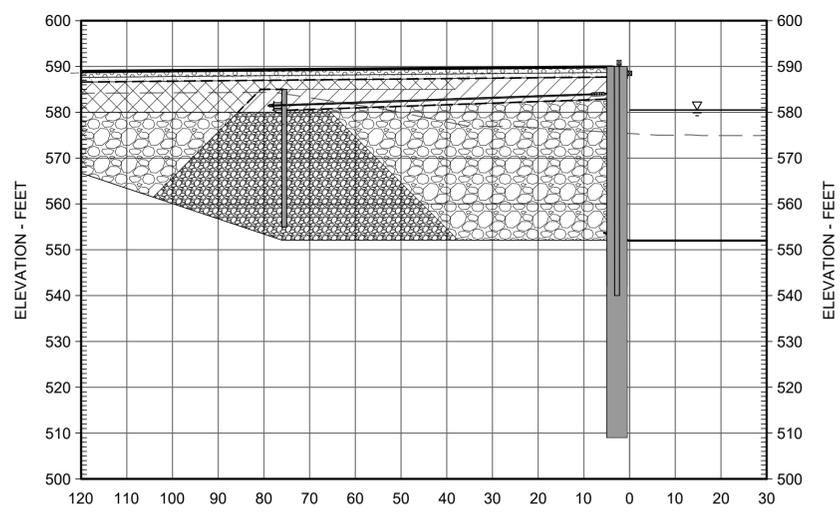
FOR CONSTRUCTION



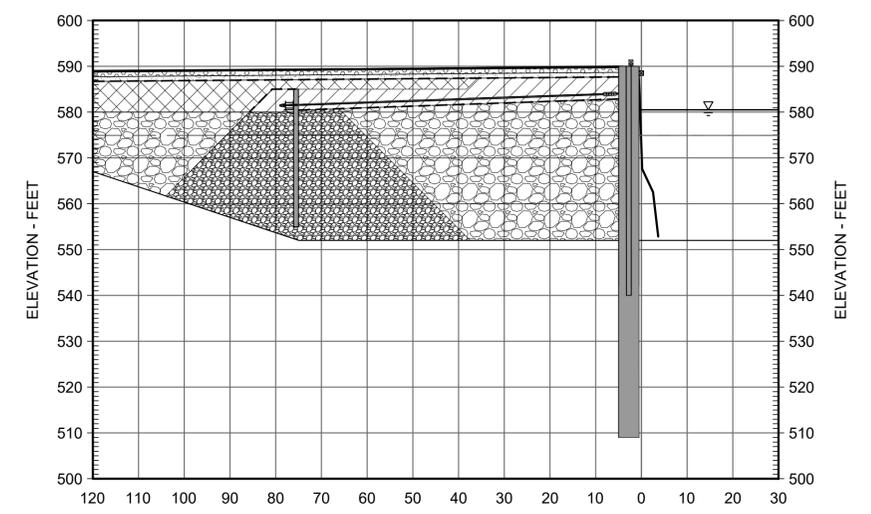
C SECTION
 STA 23+50 SCALE: 1" = 20'



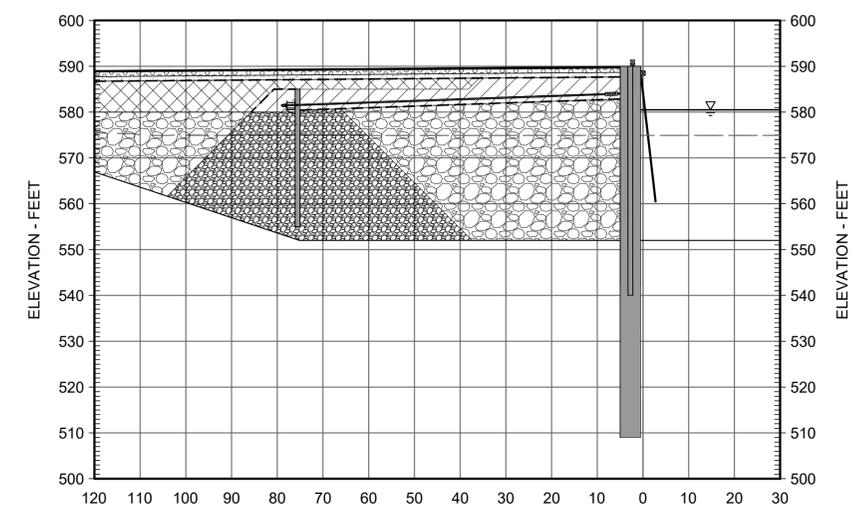
B SECTION
 STA 23+00 SCALE: 1" = 20'



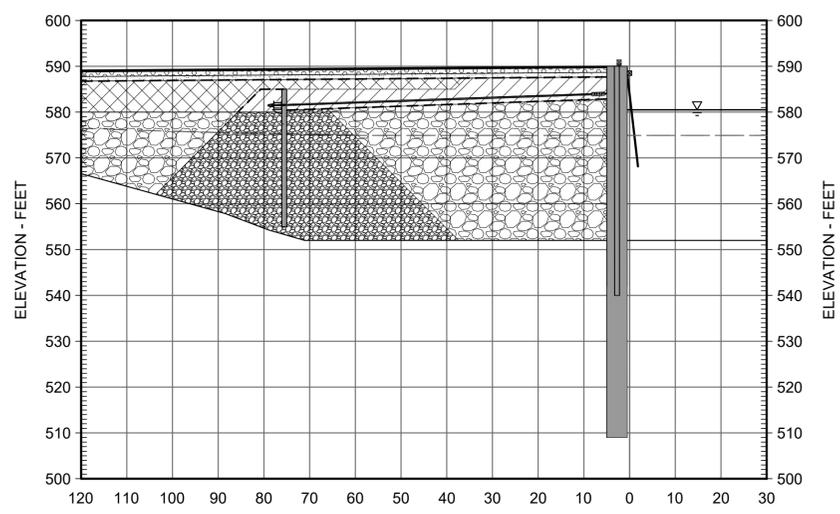
A SECTION
 STA 22+50 SCALE: 1" = 20'



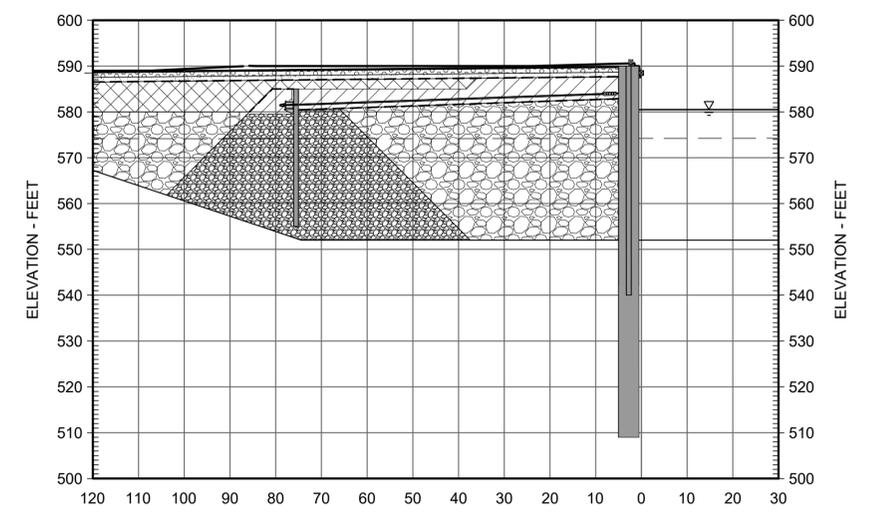
F SECTION
 STA 25+00 SCALE: 1" = 20'



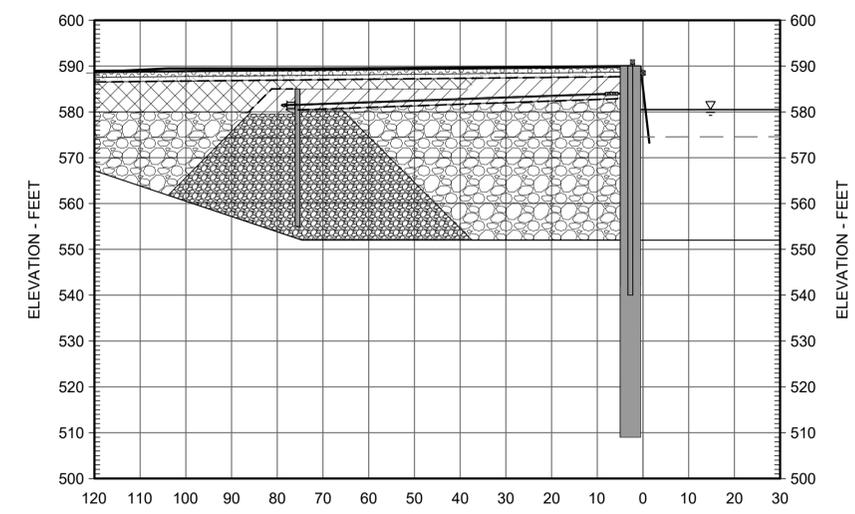
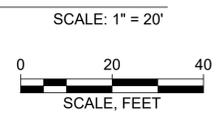
E SECTION
 STA 24+50 SCALE: 1" = 20'



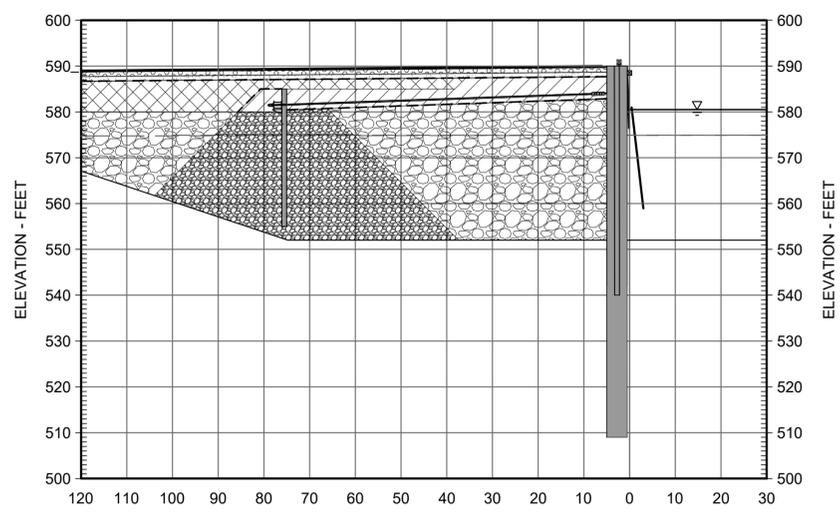
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 STA 24+00 SCALE: 1" = 20'



I SECTION
 STA 26+00 SCALE: 1" = 20'

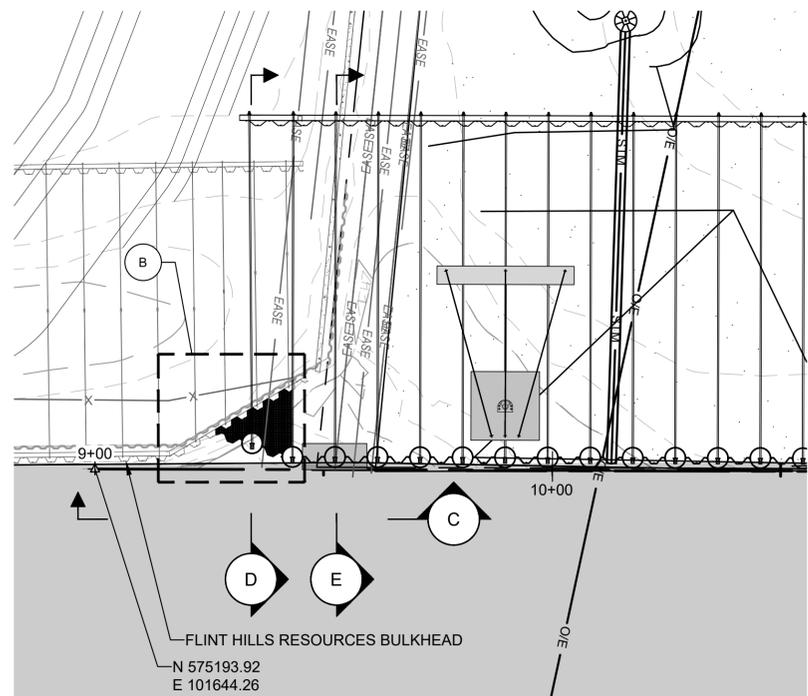


H SECTION
 STA 26+00 SCALE: 1" = 20'

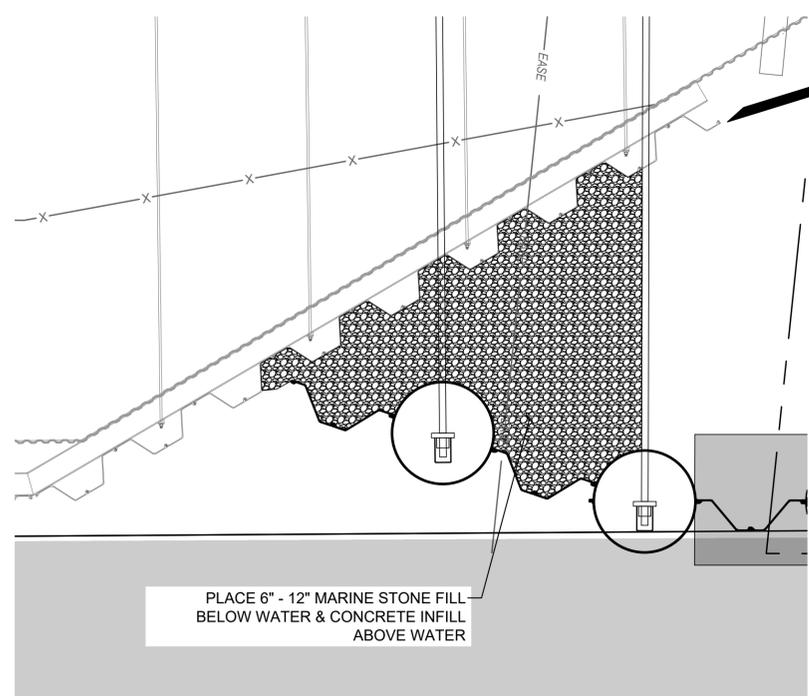


G SECTION
 STA 25+50 SCALE: 1" = 20'

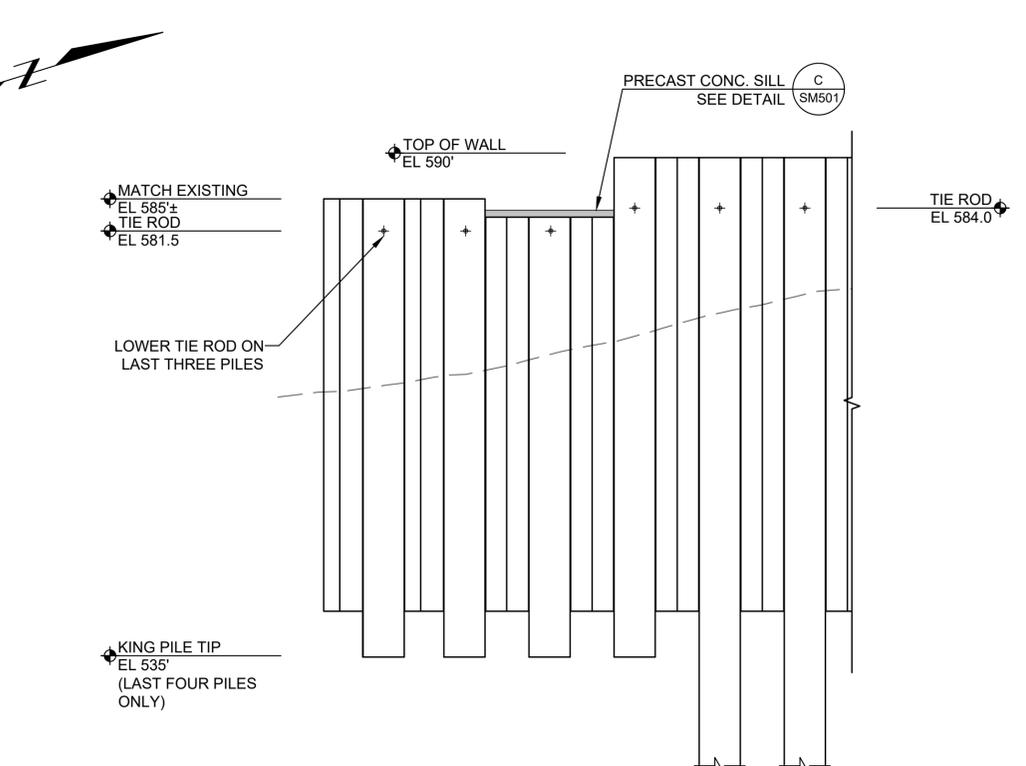
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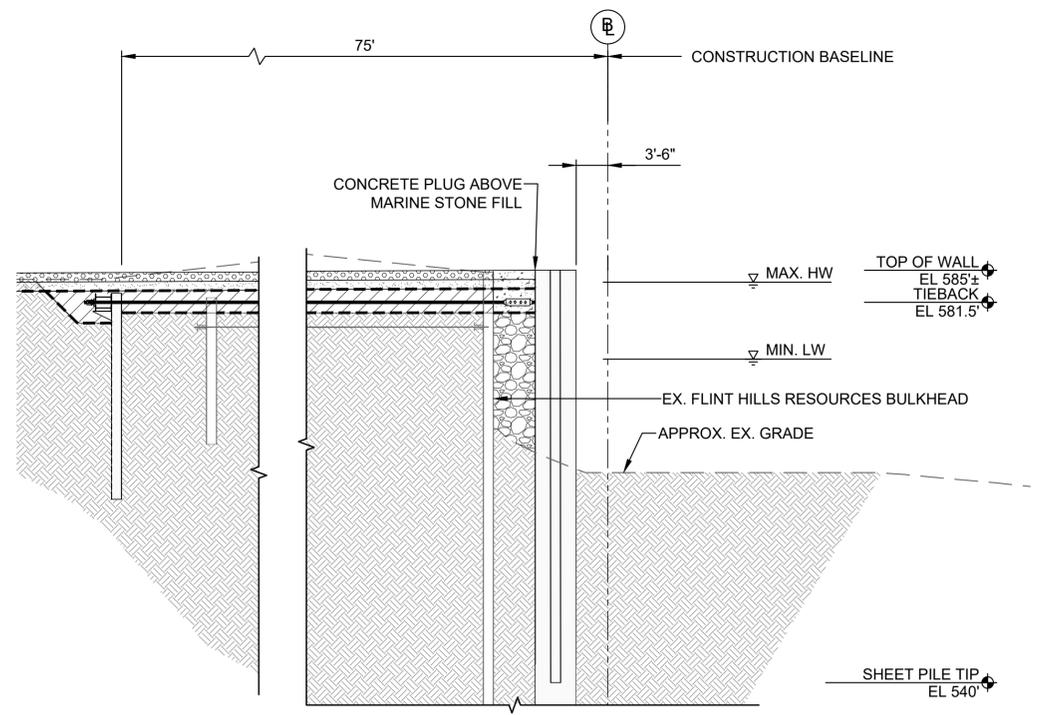
A ENLARGED PLAN
SM101 SOUTH END
SCALE: 1" = 20'



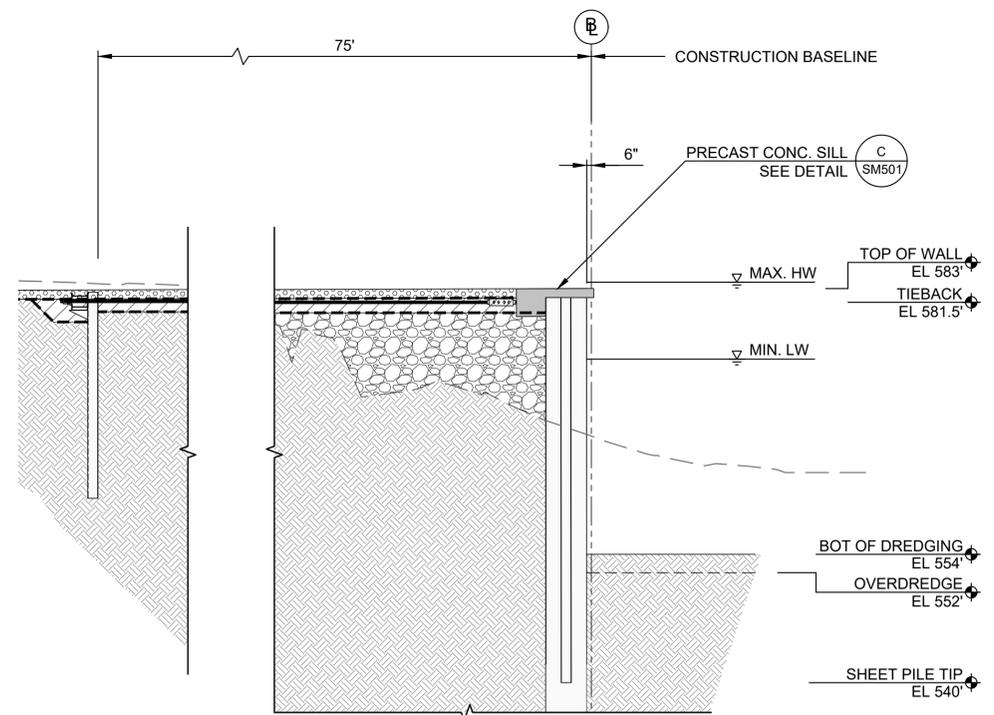
B DETAIL
BULKHEAD END
SCALE: 1" = 4'



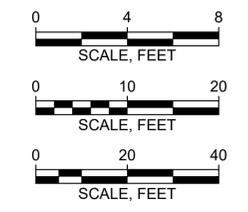
C ELEVATION
BULKHEAD END
SCALE: 1" = 10'



D SECTION
BULKHEAD
SCALE: 1" = 10'



E SECTION
BULKHEAD
SCALE: 1" = 10'



P.E. No.:
Approved: MJV
Checked: ADP
Drawn: JSF
Designed: EB
GEI Project 2201593

Attention: 1"
If this scale bar does not measure 1" then drawing is not original scale.

NO.	DATE	FOR CONSTRUCTION	MJV
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		ISSUE/REVISION	APP

SHEET NAME
SOUTH END PLAN AND SECTIONS

SHEET NO.
SM401

FOR CONSTRUCTION

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 Drawn: JSF
 Designed: EB
 GEI Project 2201593

Attention: 1"
 If this scale bar does not measure 1" then drawing is not original scale.

NO.	DATE	ISSUE/REVISION	MJV APP
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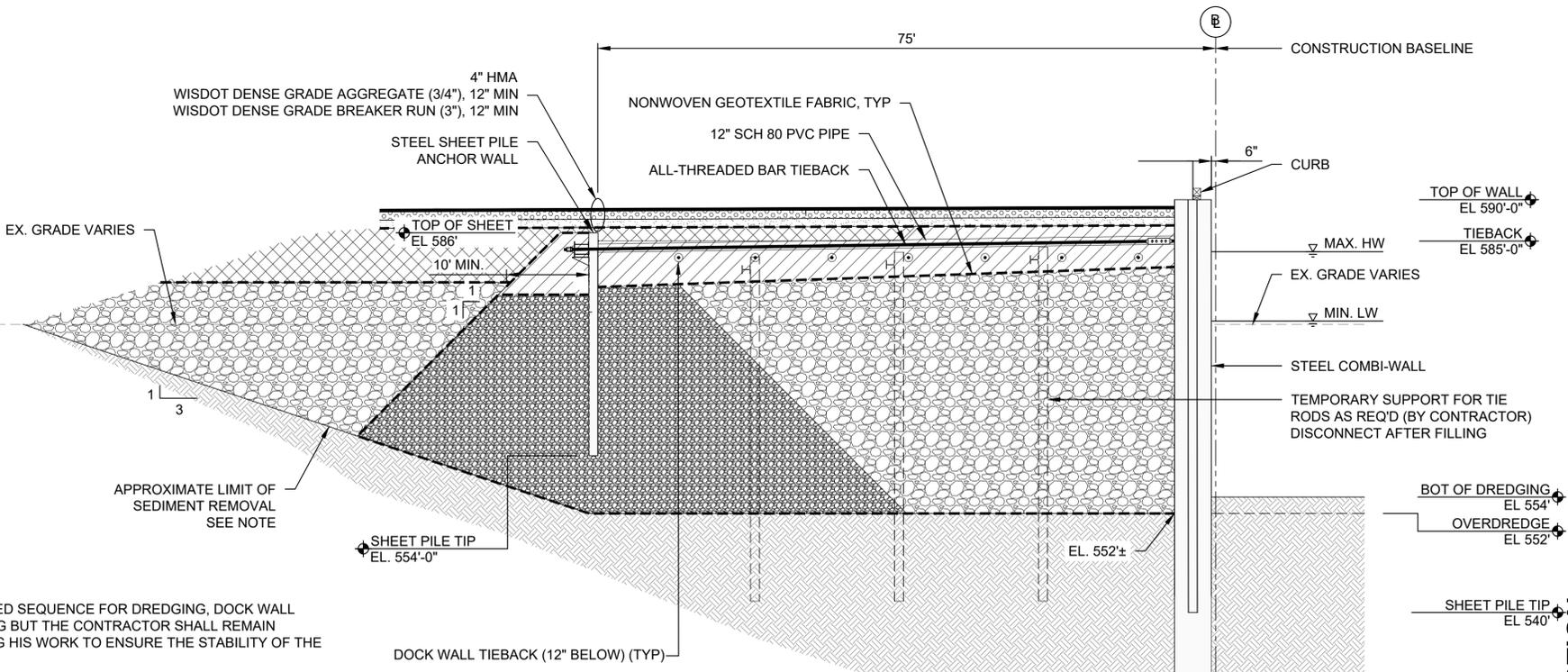
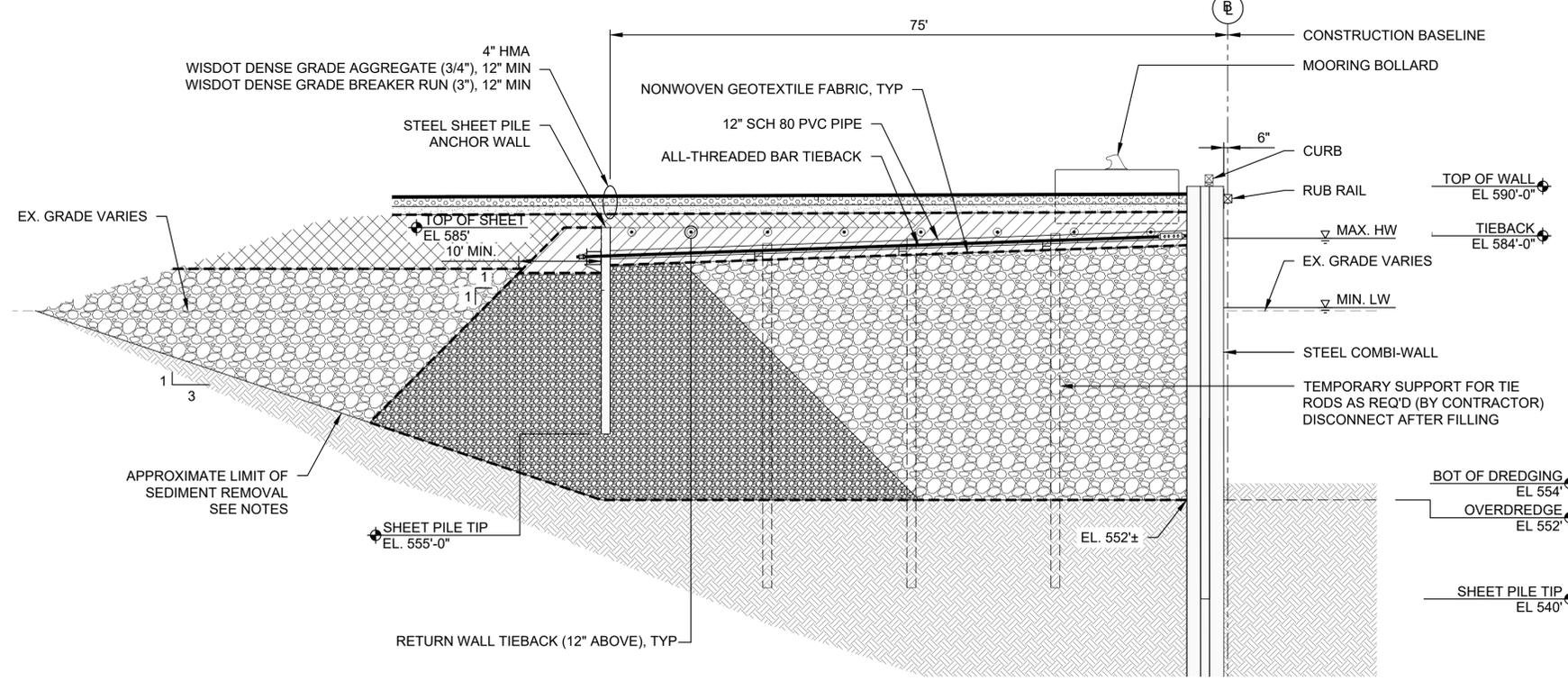
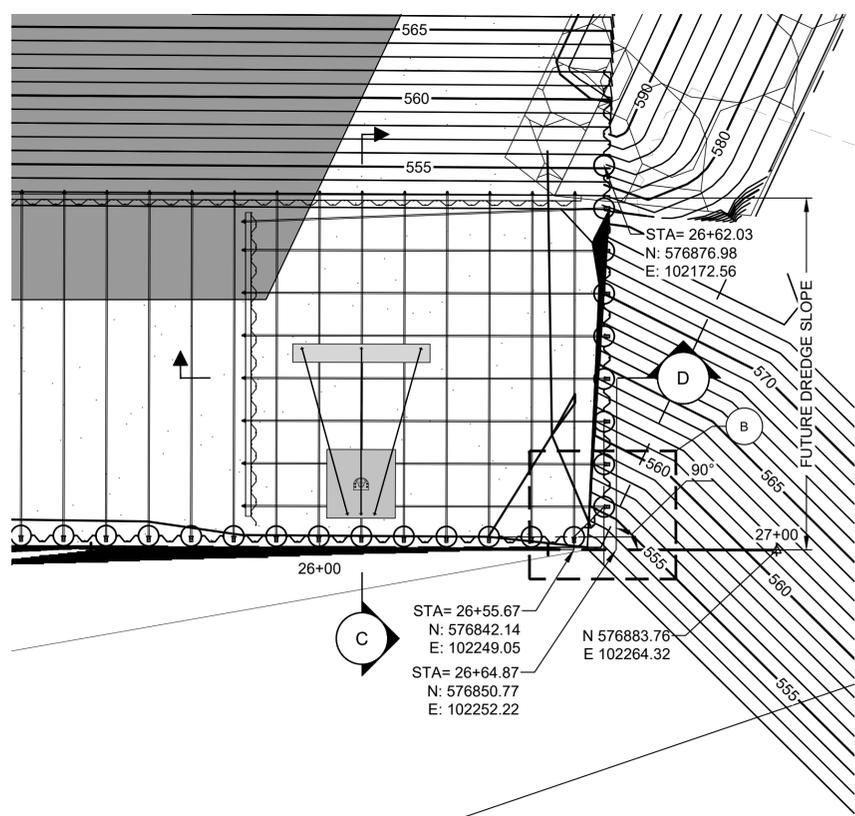
SHEET NAME

NORTH END PLAN AND SECTIONS

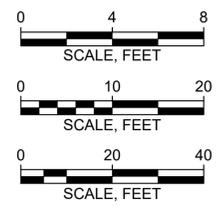
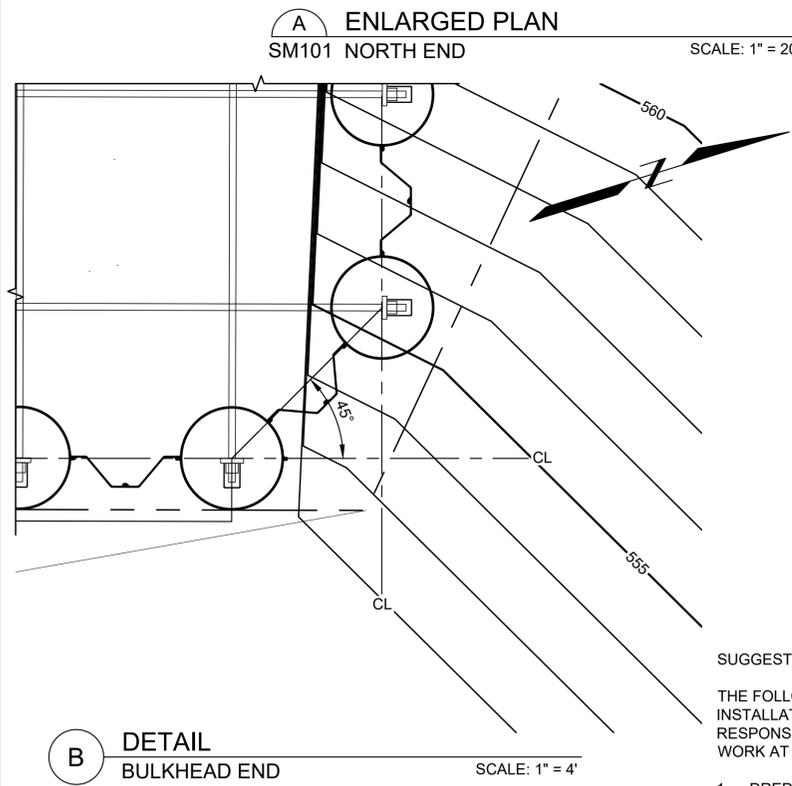
SHEET NO.

SM403

FOR CONSTRUCTION



- SUGGESTED SEQUENCE:**
- THE FOLLOWING IS A SUGGESTED SEQUENCE FOR DREDGING, DOCK WALL INSTALLATION, AND BACKFILLING BUT THE CONTRACTOR SHALL REMAIN RESPONSIBLE FOR SEQUENCING HIS WORK TO ENSURE THE STABILITY OF THE WORK AT ALL TIMES.
1. DREDGE FROM CHANNEL IN TO GET ACCESS.
 2. DREDGE OUT ORGANIC MATERIAL LANDSIDE OF DOCK WALL.
 3. CONSTRUCT TEMPORARY ACCESS (ALSO PERMANENT STONE FOR ANCHOR WALL FROM EXISTING SHORELINE).
 4. INSTALL DOCK WALL.
 5. INSTALL ANCHOR WALL.
 6. PLACE FILL BETWEEN WALLS TO MAXIMUM ALLOWED WITHOUT TIE RODS. MONITOR WALL DURING ALL FILLING.
 7. DRIVE TEMPORARY TIE ROD SUPPORTS.
 8. INSTALL TIE RODS.
 9. COMPLETE FILLING.
 10. USE COMPLETED TEMPORARY ACCESS AND FILLING TO ACCESS NORTH SHORELINE FOR REVETMENT.



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P.E. No.:
 Approved: MJV
 Checked: ADP
 Drawn: JSF
 Designed: EB
 GEI Project 2201593

Attention: 1"
 0 1 2
 If this scale bar does not measure 1" then drawing is not original scale.

NO.	DATE	FOR CONSTRUCTION	MJV
0	1/27/2026	FOR CONSTRUCTION	MJV
		ISSUE/REVISION	APP

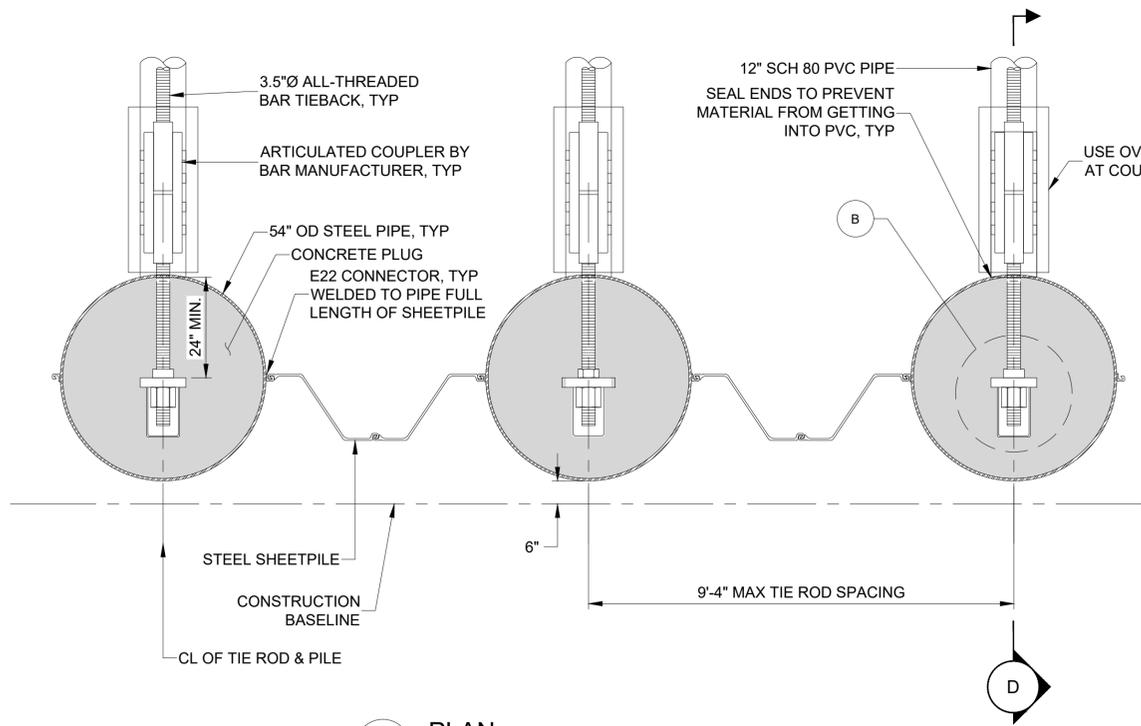
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**DOCKWALL
 DETAILS -
 SHEET 1 OF 3**

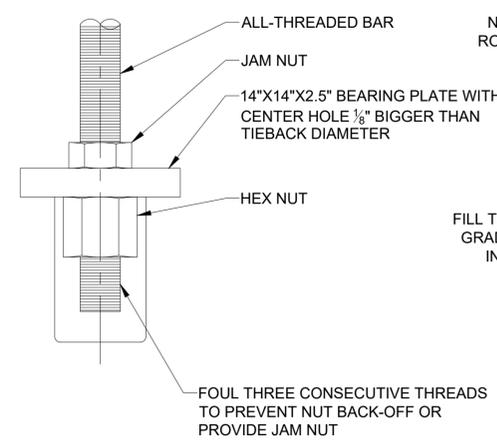
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SM501

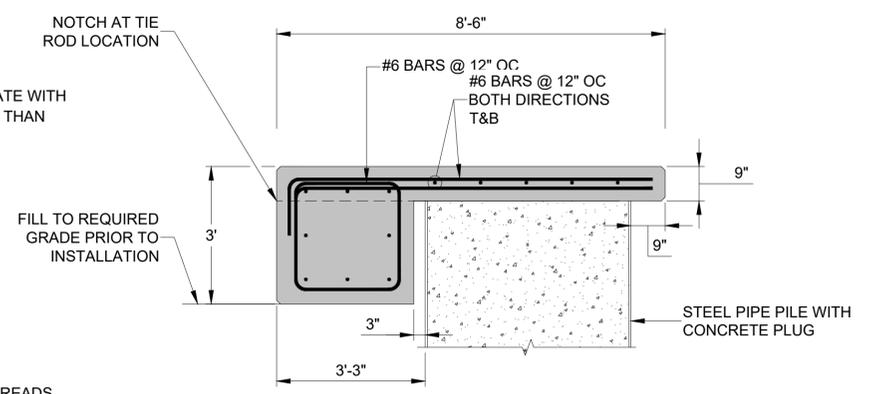
FOR CONSTRUCTION



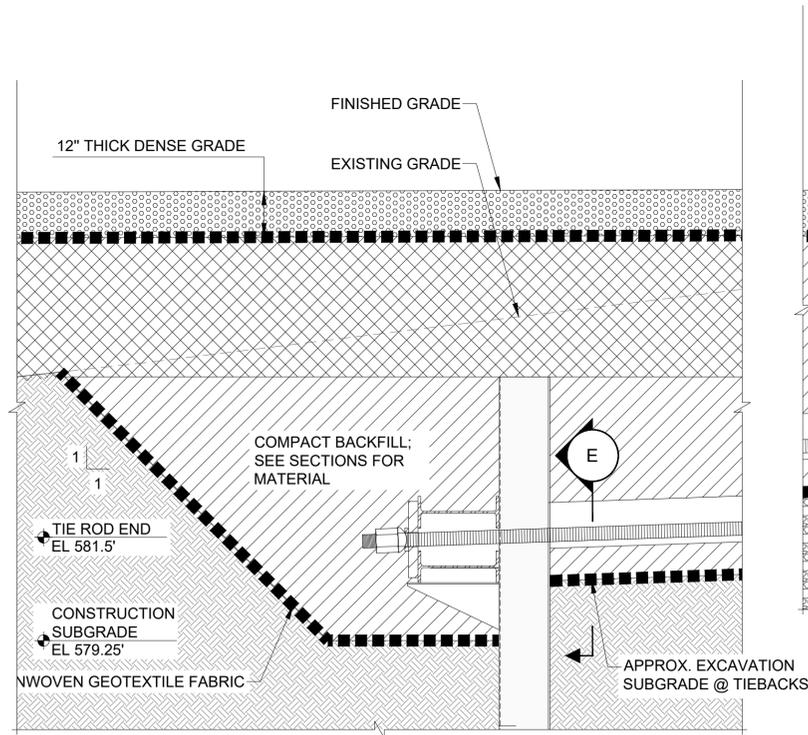
A PLAN
 TYPICAL DOCKWALL
 SCALE: 1/2"=1'-0"



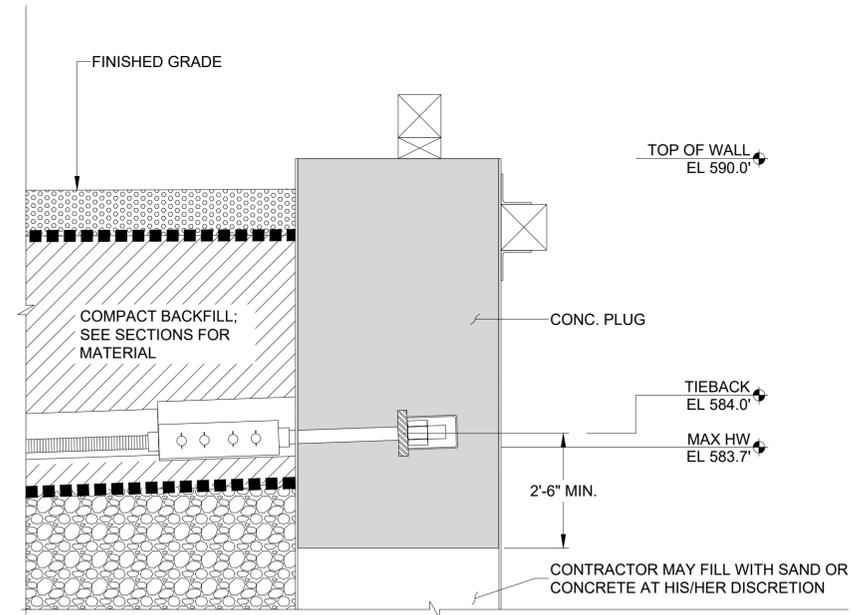
B DETAIL
 TIER ROD HEAD
 SCALE: 1-1/2"=1'-0"



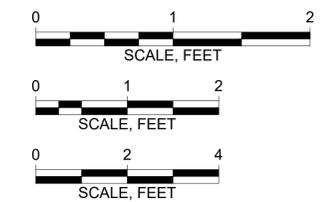
C DETAIL
 SM401 PRECAST SILL
 SCALE: 1-1/2"=1'-0"



D SECTION
 TIER ROD AT DOCKWALL
 SCALE: 1/2"=1'-0"



E SECTION
 TRENCH
 NTS



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 GEI Project 2201593

Attention: 1"
 0 1 2
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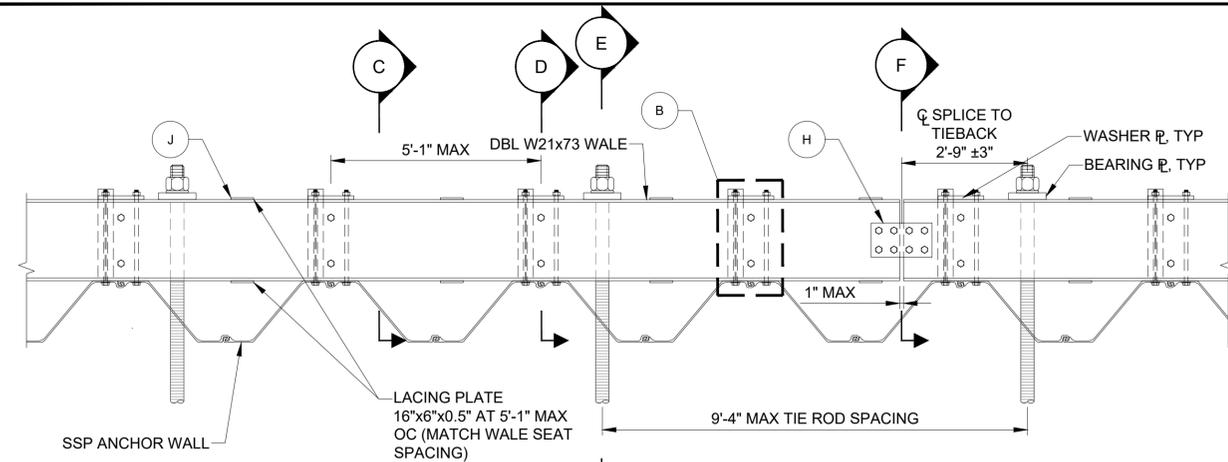
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**DOCKWALL
 DETAILS -
 SHEET 2 OF 3**

SHEET NO.

SM502

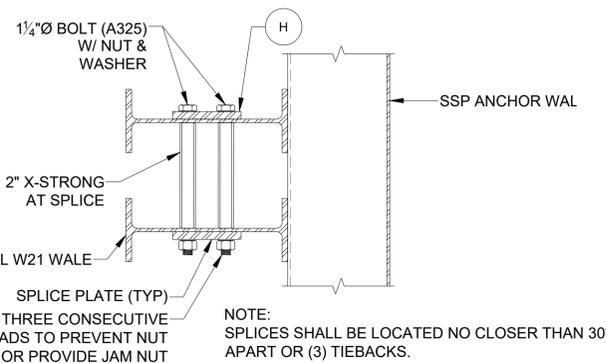
FOR CONSTRUCTION



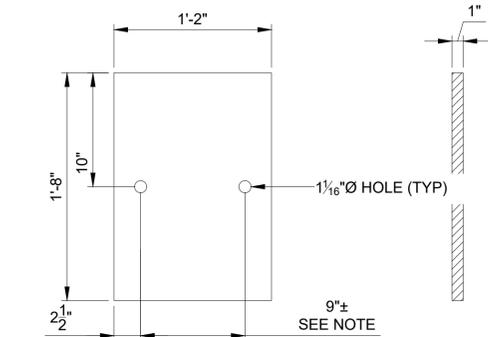
A PLAN
 TYPICAL ANCHOR WALL
 SCALE: 1/2"=1'-0"

B DETAIL
 BEAM SEAT
 SCALE: 1-1/2"=1'-0"

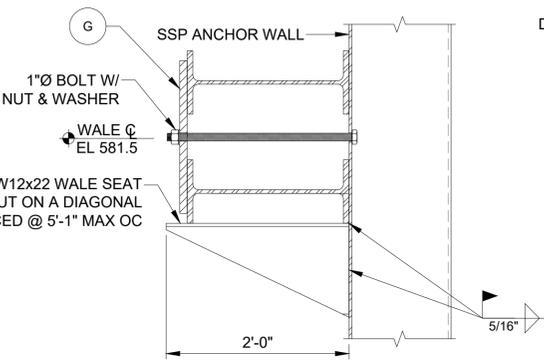
C SECTION
 WALE
 SCALE: 1"=1'-0"



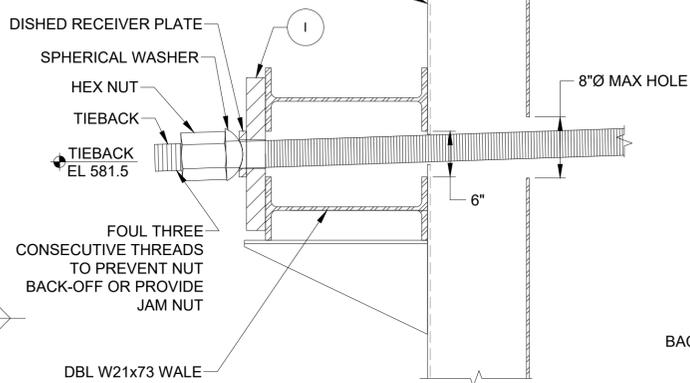
F SECTION
 WALE SPLICE
 SCALE: 1"=1'-0"



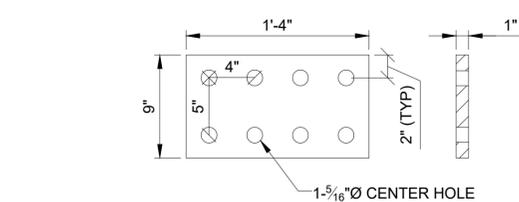
G DETAIL
 WASHER PLATE
 SCALE: 1-1/2"=1'-0"



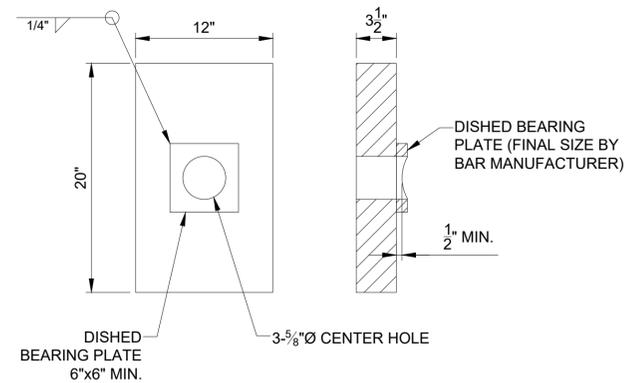
D SECTION
 WALE / WALE
 CONNECTION
 SCALE: 1"=1'-0"



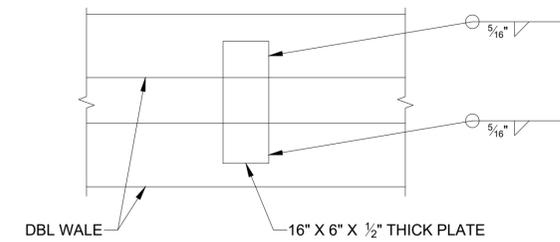
E SECTION
 TIEBACK / ANCHOR PILE
 CONNECTION
 SCALE: 1"=1'-0"



H DETAIL
 SPLICE PLATE
 SCALE: 1-1/2"=1'-0"

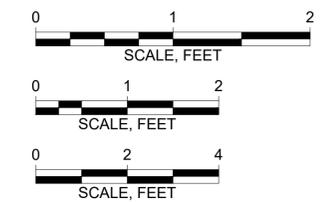


I DETAIL
 BEARING PLATE
 SCALE: 1-1/2"=1'-0"



J DETAIL
 LACING PLATE
 SCALE: 1"=1'-0"

NOTE: COORDINATE SPACING TO AVOID CONFLICTS WITH SHEET PILES, WALE SEAT, AND OTHER CONNECTIONS



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P.E. No.:
 Approved: MJV
 Checked: ADP
 Drawn: JSF
 Designed: EB
 GEI Project 2201593

Attention: 1"
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NO.	DATE	FOR CONSTRUCTION	MJV
0	1/27/2026	FOR CONSTRUCTION	MJV
		ISSUE/REVISION	APP

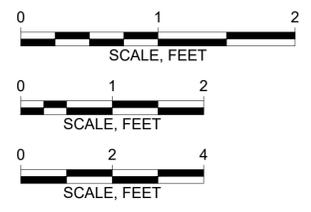
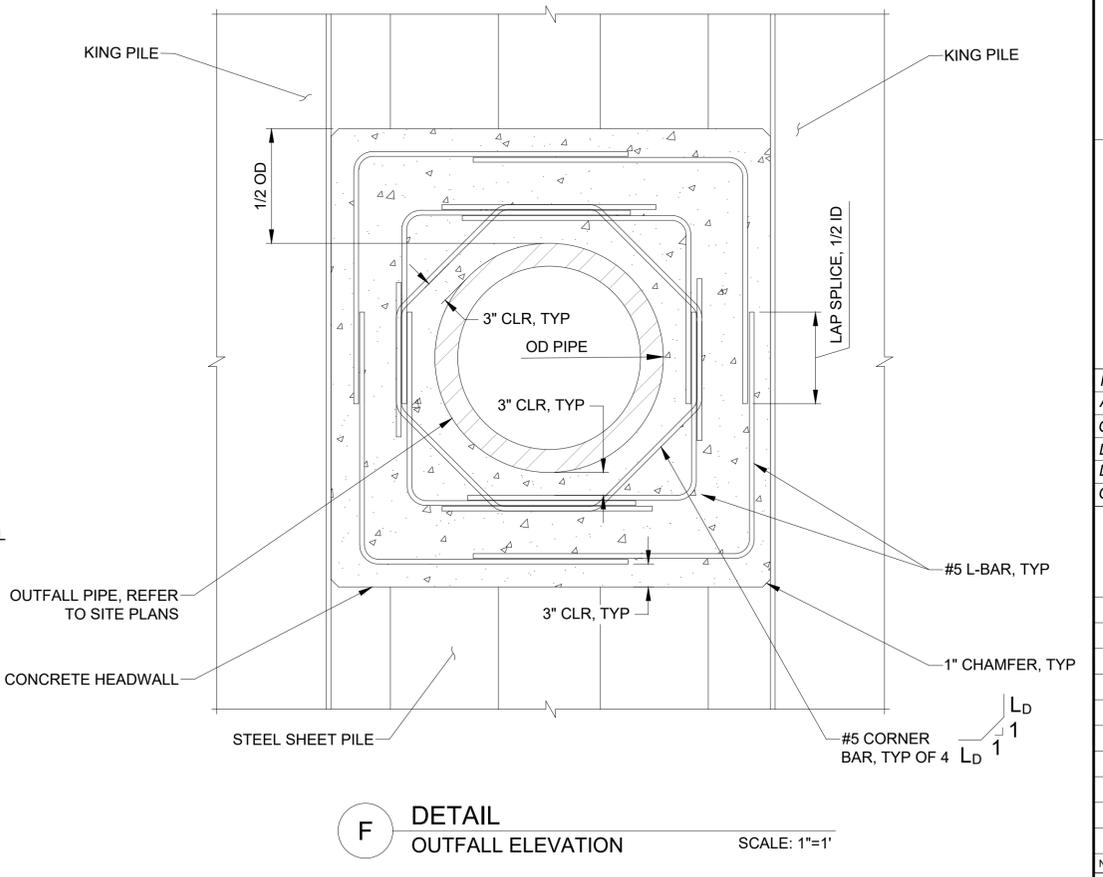
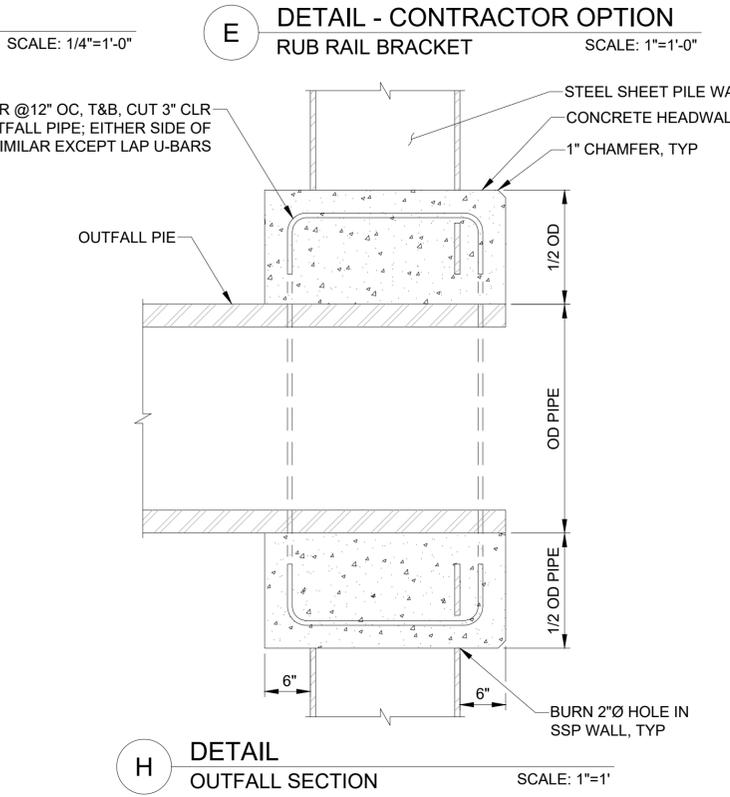
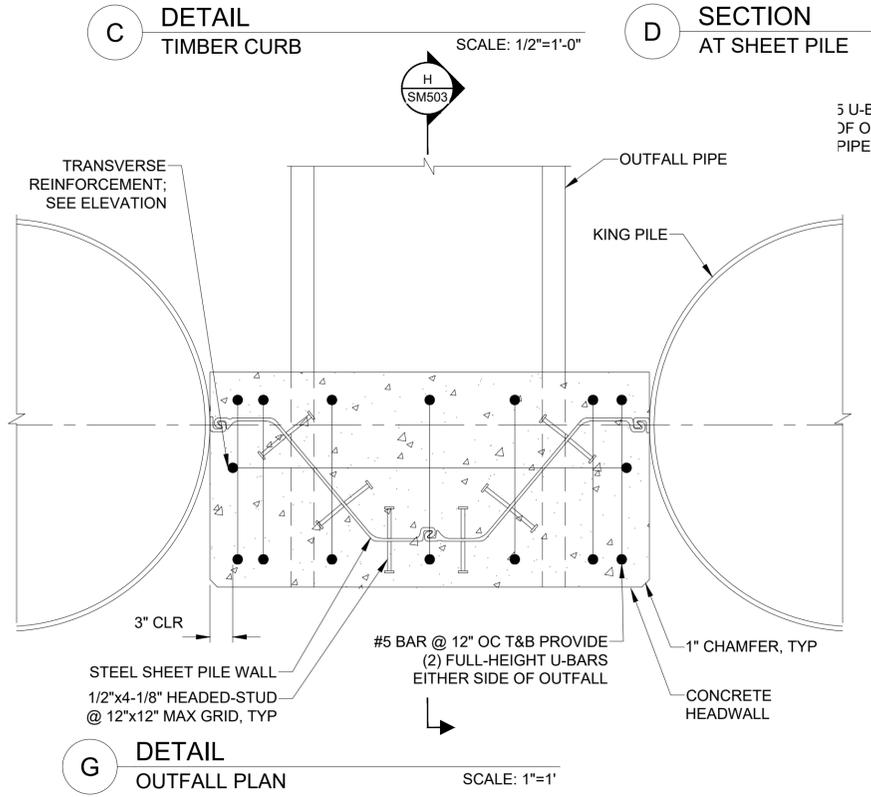
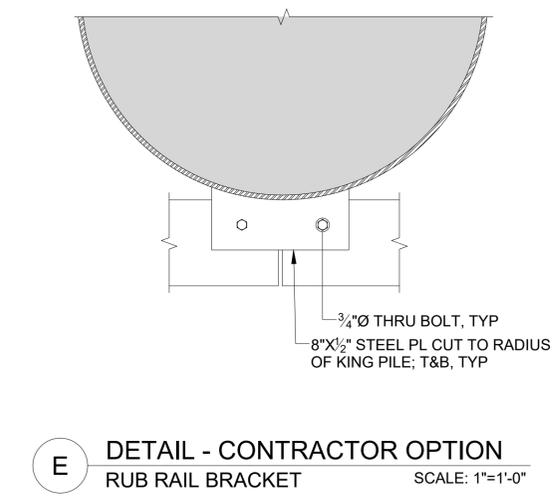
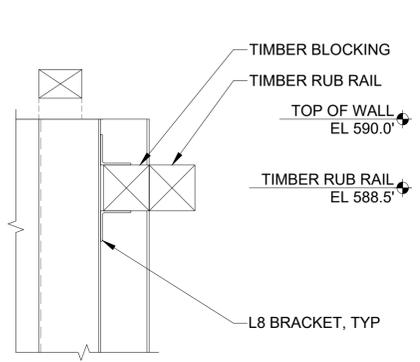
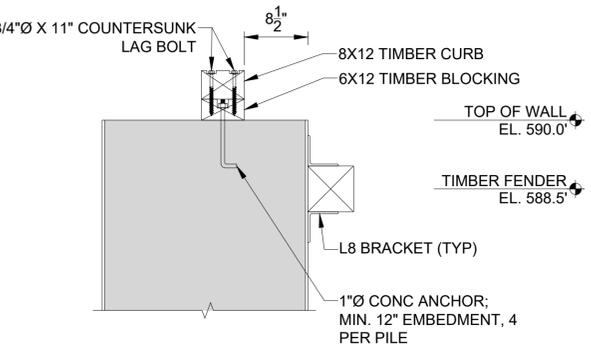
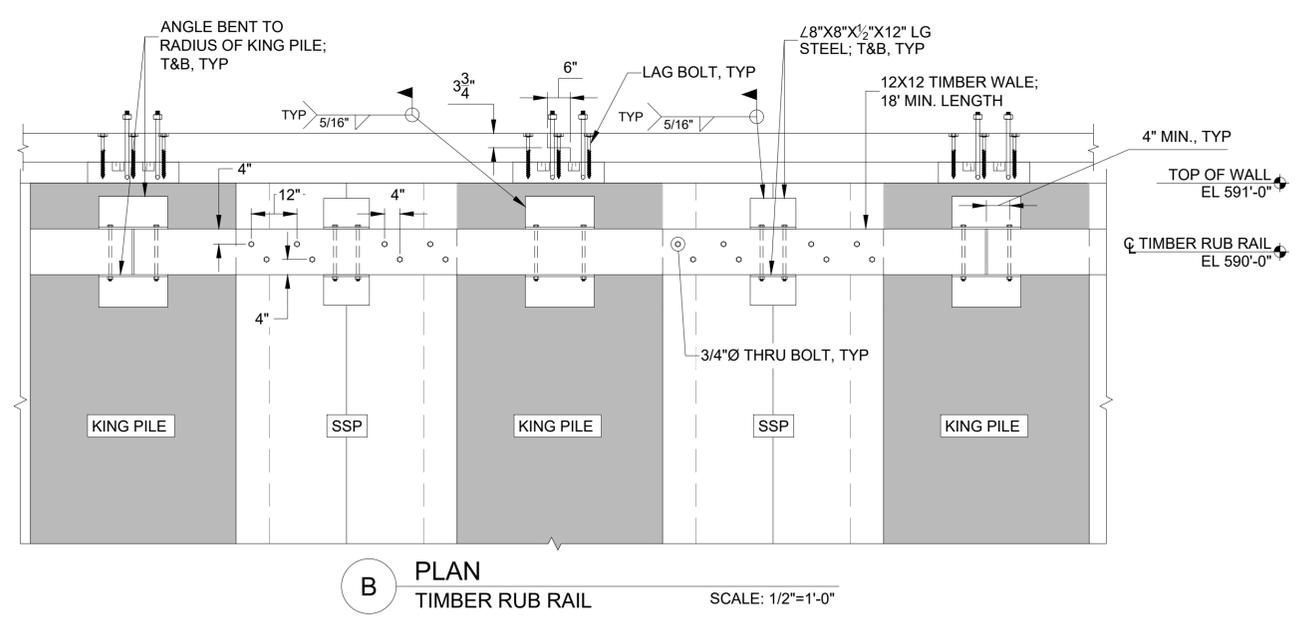
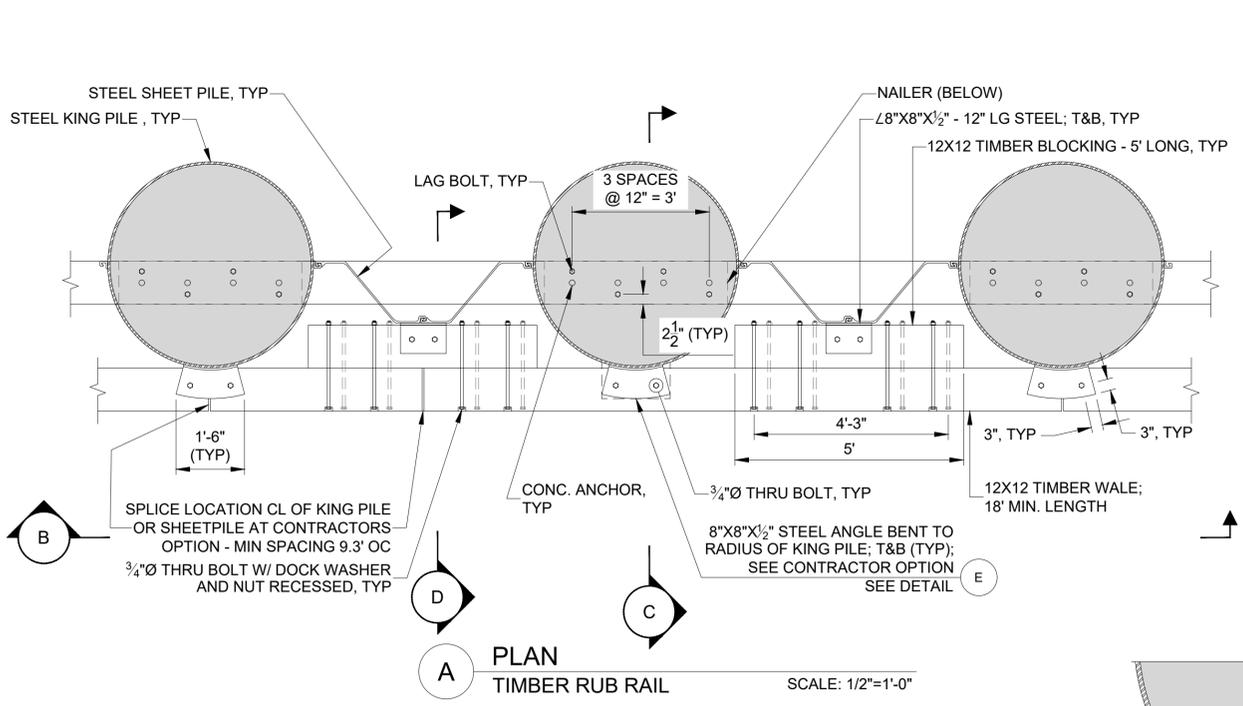
SHEET NAME

**DOCKWALL
 DETAILS -
 SHEET 3 OF 3**

SHEET NO.

SM503

FOR CONSTRUCTION



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P.E. No.:
 Approved: MJV
 Checked: ADP
 Drawn: JSF
 Designed: EB
 GEI Project 2201593

Attention: 1"
 0 1" Scale Bar
 If this scale bar does not measure 1" then drawing is not original scale.

NO.	DATE	FOR CONSTRUCTION ISSUE/REVISION	MJV APP
0	1/27/2026	FOR CONSTRUCTION	MJV

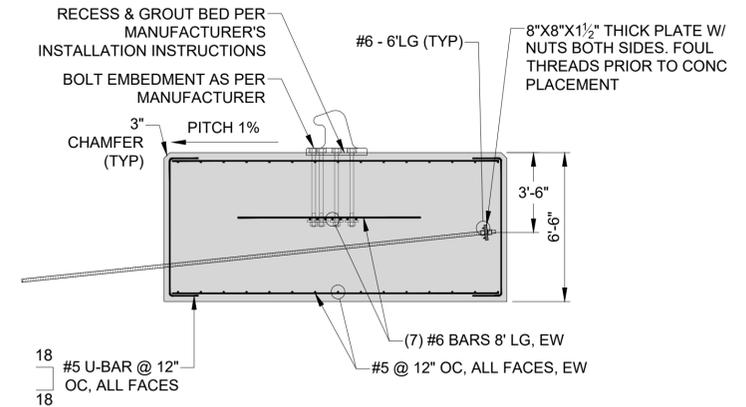
SHEET NAME

MARINE BOLLARD DETAILS

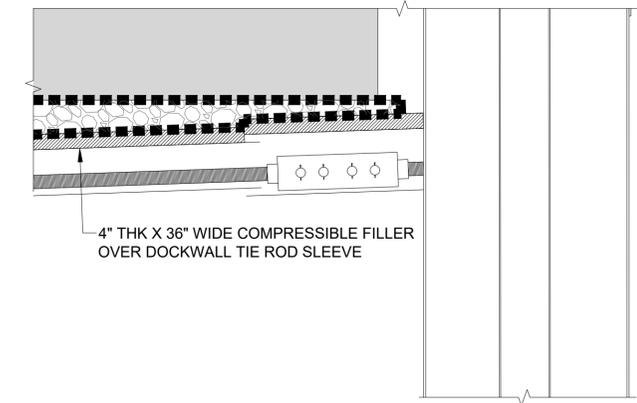
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SM504

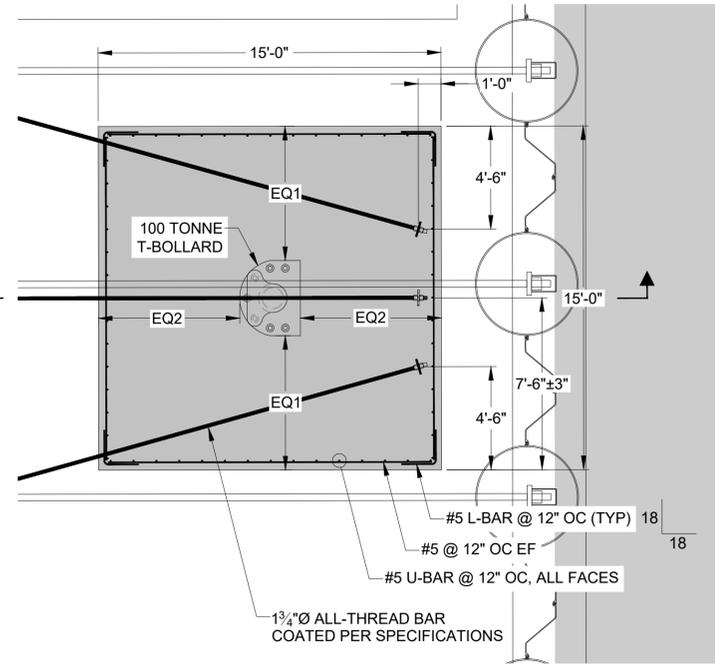
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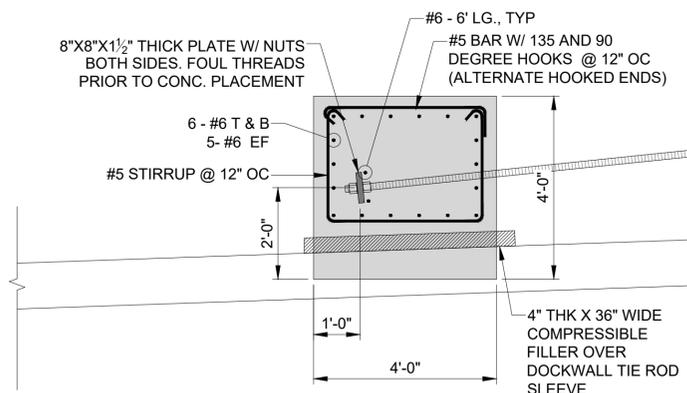
D SECTION
 CONCRETE FOUNDATION LAYOUT AND REINFORCEMENT
 SCALE: 1/4"=1'-0"



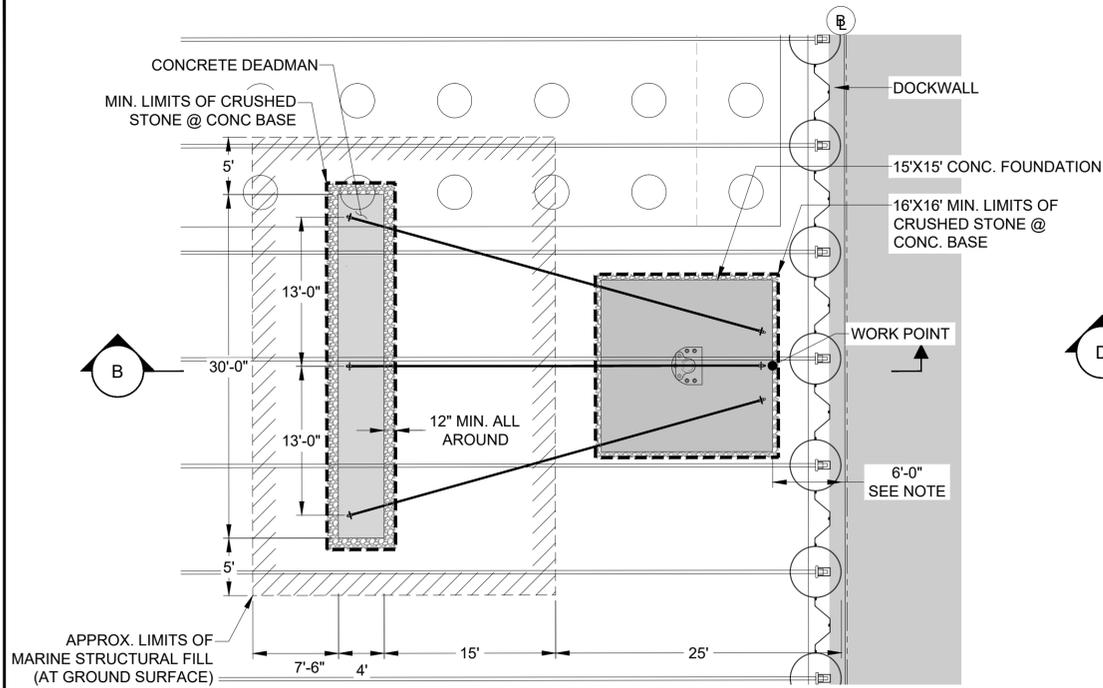
F DETAIL
 TIE ROD
 SCALE: 1/2"=1'-0"



C PLAN
 CONCRETE FOUNDATION LAYOUT AND REINFORCEMENT
 SCALE: 1/4"=1'-0"

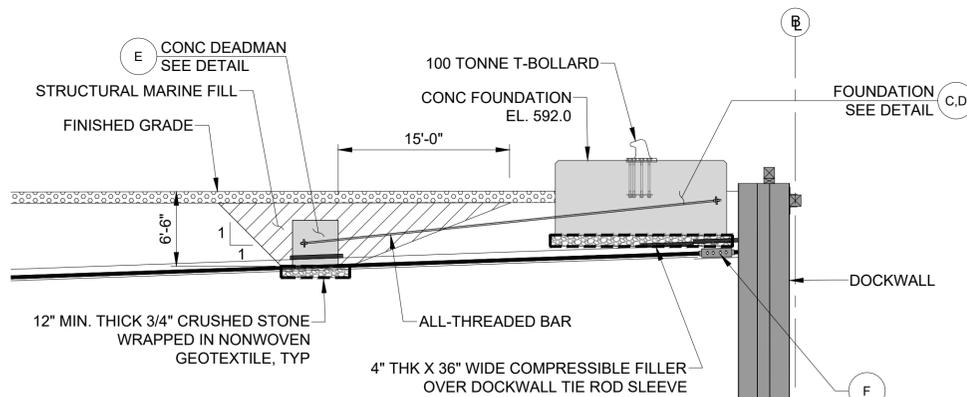


E SECTION
 CONCRETE DEADMAN
 SCALE: 1/2"=1'-0"



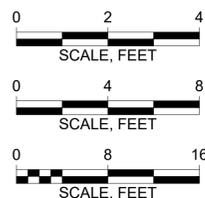
A PLAN
 100 TONNE T-BOLLARD
 SCALE: 1/8"=1'-0"

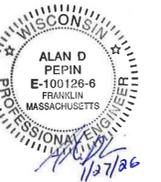
NOTE:
 1. FINAL LOCATIONS OF ALL BOLLARDS SHALL BE AS DIRECTED BY THE OWNER
 2. CENTER BOLLARD ON DOCK WALL TIE ROD TO MINIMIZE CONFLICTS



B SECTION
 100 TONNE T-BOLLARD
 SCALE: 1/8"=1'-0"

NOTE: EARTHWORK MATERIALS SHOWN ARE AS REQUIRED FOR THE BOLLARD FOUNDATION AND DEADMAN SYSTEM. REFER TO THE SM300 SERIES FOR EARTHWORK REQUIREMENTS IN THE VICINITY OF THE DOCKWALL AND ASSOCIATED ANCHOR WALL.





P.E. No.:
 Approved: MJV
 Checked: GMM
 Drawn: LMR
 Designed: INR
 GEI Project 2201593

Attention: 1"
 0 1"
 If this scale bar does not measure 1" then drawing is not original scale.

NO.	DATE	FOR CONSTRUCTION	MJV
0	1/27/2026	FOR CONSTRUCTION	MJV
		ISSUE/REVISION	APP

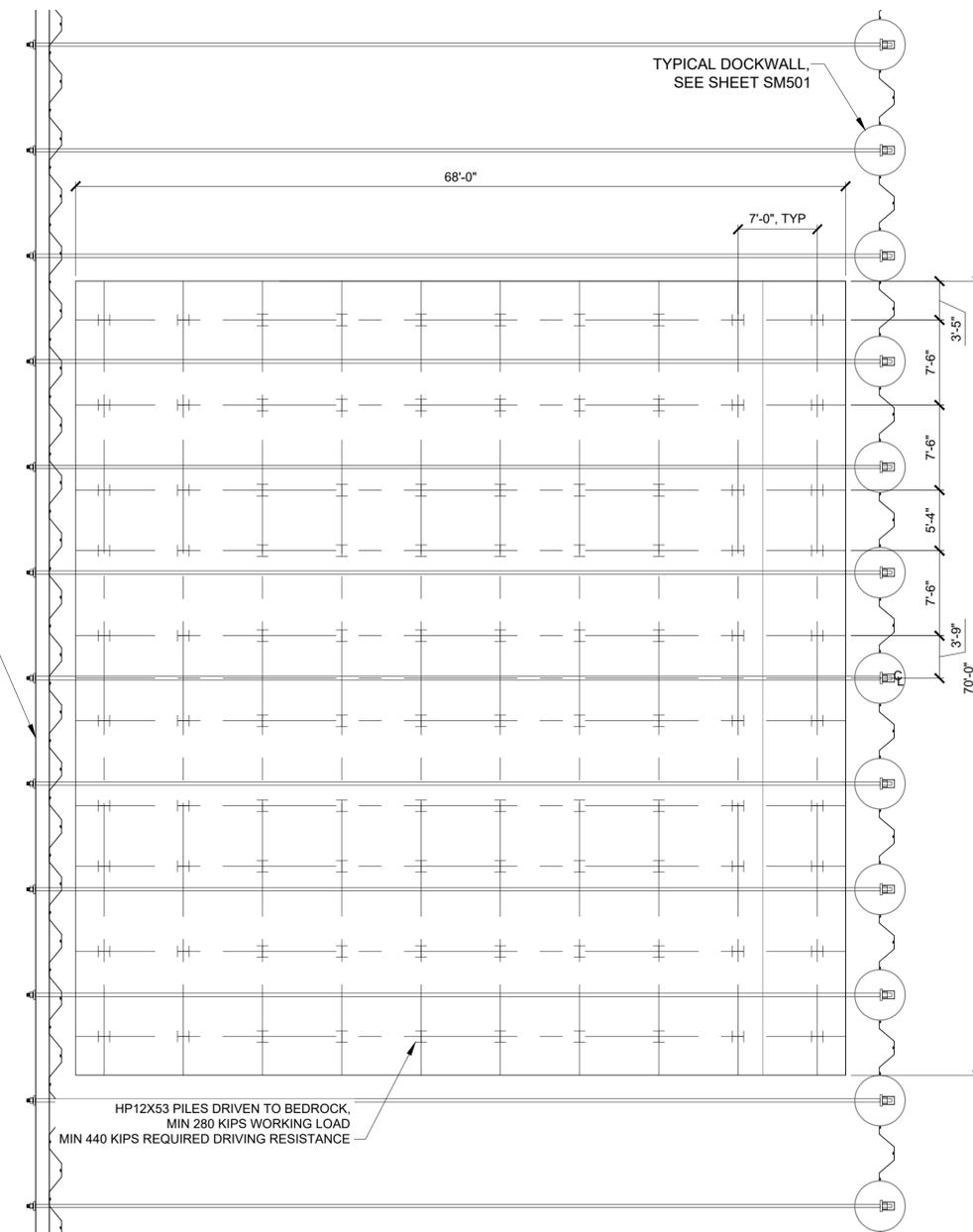
SHEET NAME

**CRANE PAD
 DETAIL**

SHEET NO.

SM505

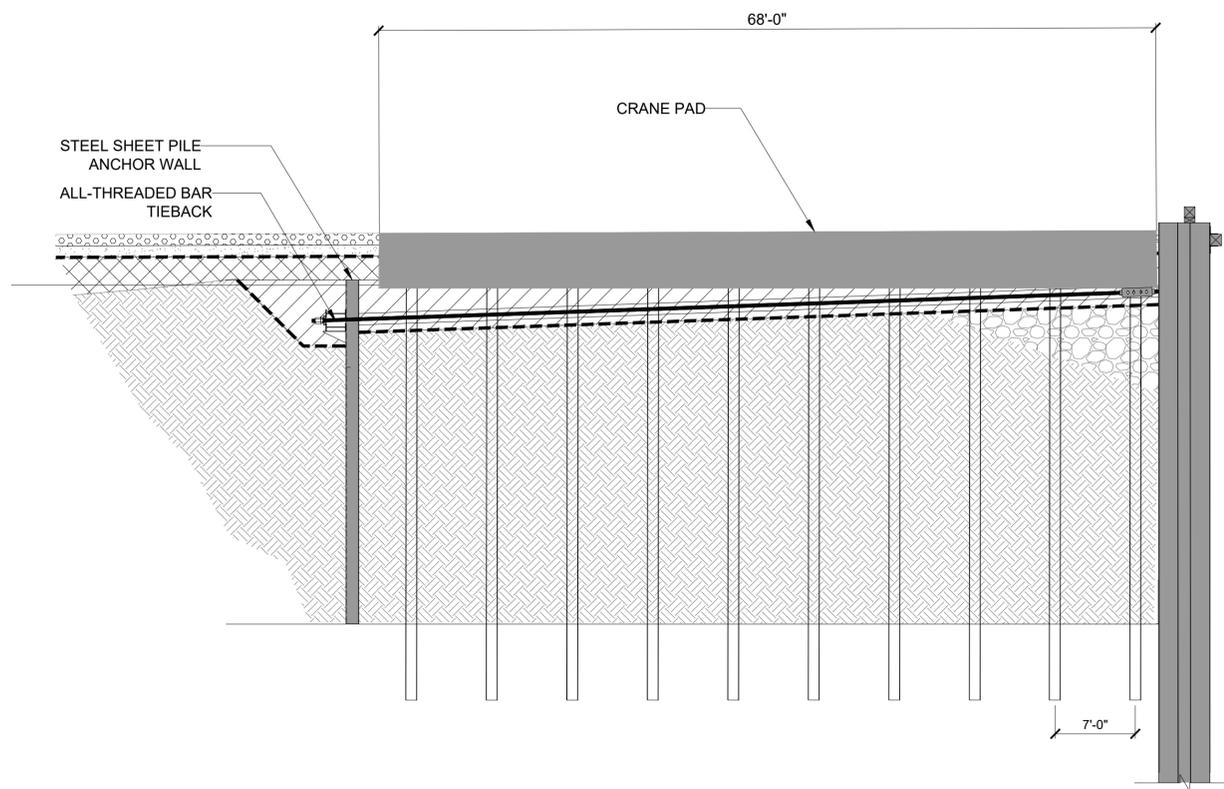
FOR CONSTRUCTION



DOCK WALL CRANE PLATFORM PLAN VIEW

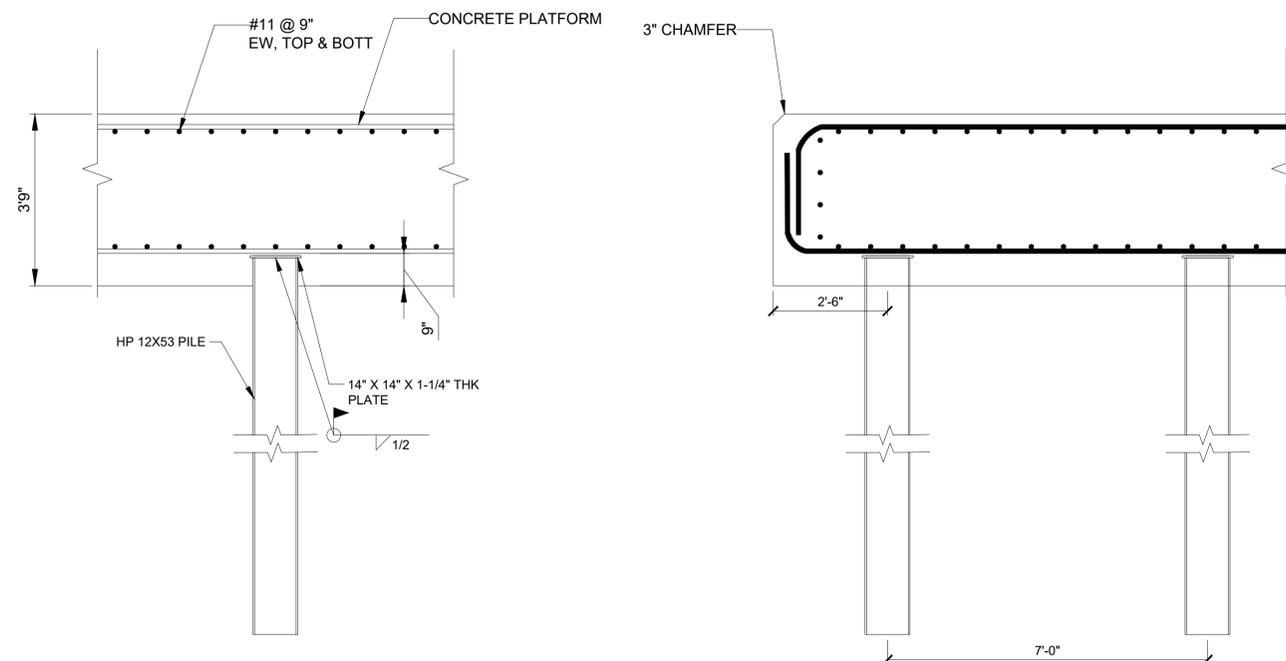
1/8"=1'-0"

DESIGN LIVE LOADS
 MAX CRANE AND LIFT WEIGHT COMBINED 2400 KIPS
 MAX UNIFORM LOAD 2 KIPS/SF



DOCK WALL CRANE PLATFORM ELEVATION VIEW

1/8"=1'-0"



CRANE PLATFORM SECTION VIEW

1/2"=1'-0"



P.E. No.:
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 GEI Project 2201593

Attention: 1"

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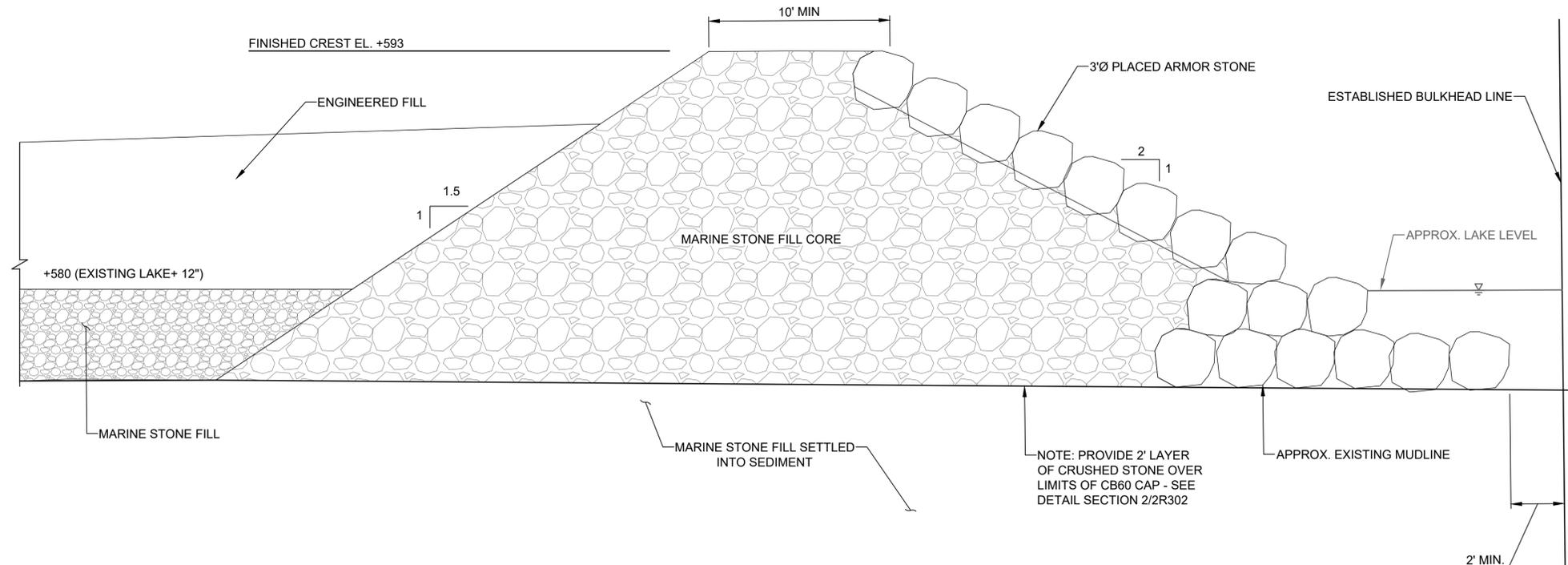
NO.	DATE	ISSUE/REVISION	APP.
0	1/27/2026	FOR CONSTRUCTION	MJV

SHEET NAME

REVETMENT
 SECTIONS 1

SHEET NO.

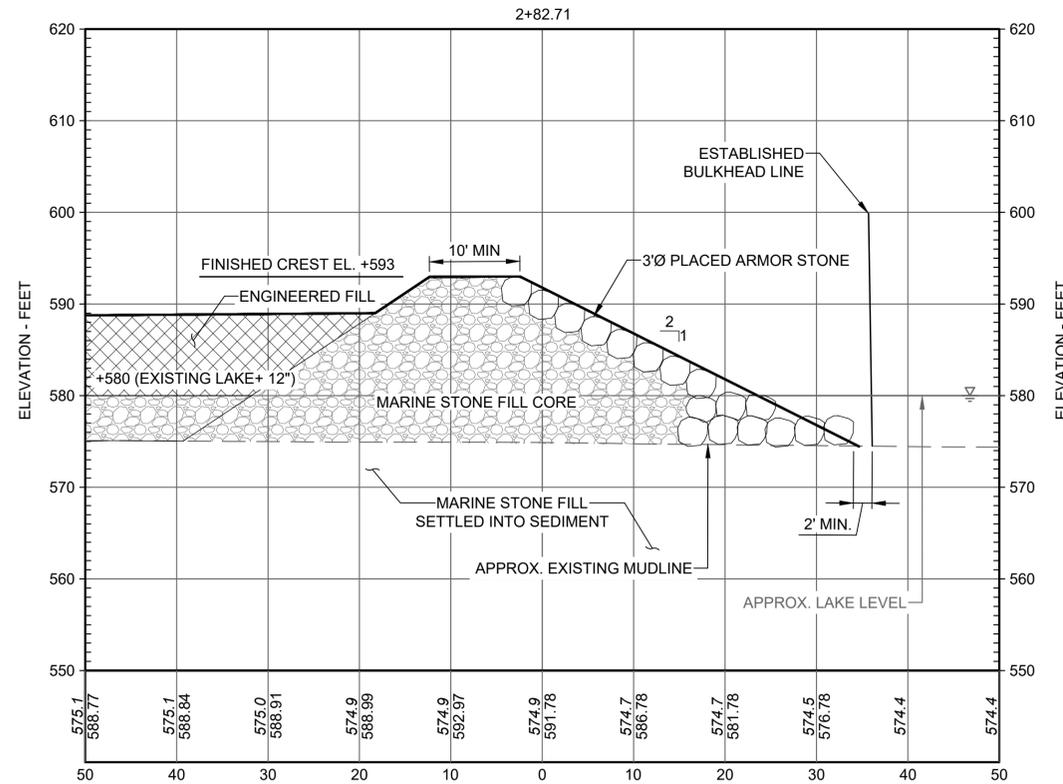
SR301



DETAIL
 TYPICAL RIP RAP CROSS SECTION

SEQUENCE AND MONITORING

1. PLACE MARINE STONE FILL FROM EXISTING SHORELINE OUTWARDS INTO THE LAKE.
2. PLACE TOE ARMOR - LAYER TWO ROCKS THICK (APPROX. 6' THICK)
3. CONSTRUCT MARINE STONE FILL CORE TO DIMENSIONS SHOWN. MARINE STONE FILL CORE IS SAME MATERIAL AS MARINE STONE FILL.
4. MONITOR TOP OF MARINE STONE FILL CORE BY PLACING STEEL PLATES OR SIMILAR AND RECORDING ELEVATION AT APPROX. 7 DAY INTERVALS.
5. WHEN SETTLEMENT RATE IS LESS THAN 1" IN 14 DAYS PLACE OUTER ARMOR ON SLOPE.



1 DETAIL
 C-130 RIP RAP CROSS SECTION SCALE: 1" = 10'



FOR CONSTRUCTION



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 GEI Project 2201593

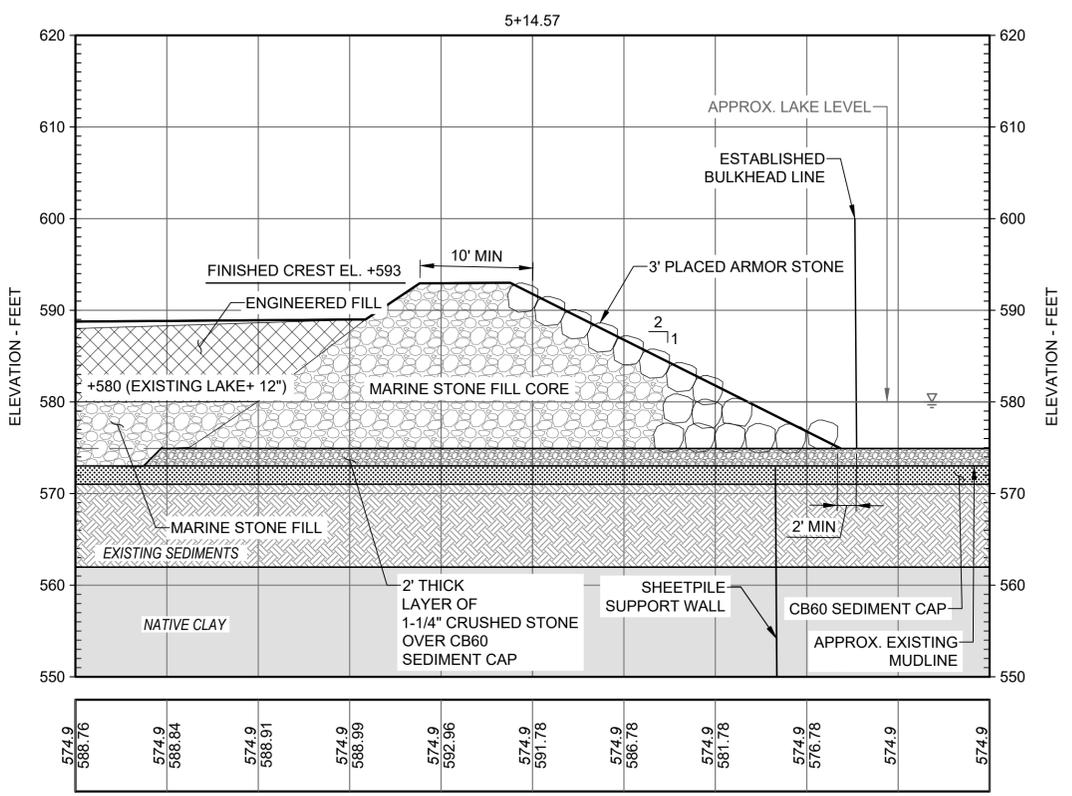
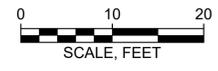
Attention: 1"
 0 10 20
 SCALE, FEET
 If this scale bar does not measure 1" then drawing is not original scale.

NO.	DATE	ISSUE/REVISION	APP.
0	1/27/2026	FOR CONSTRUCTION	MJV

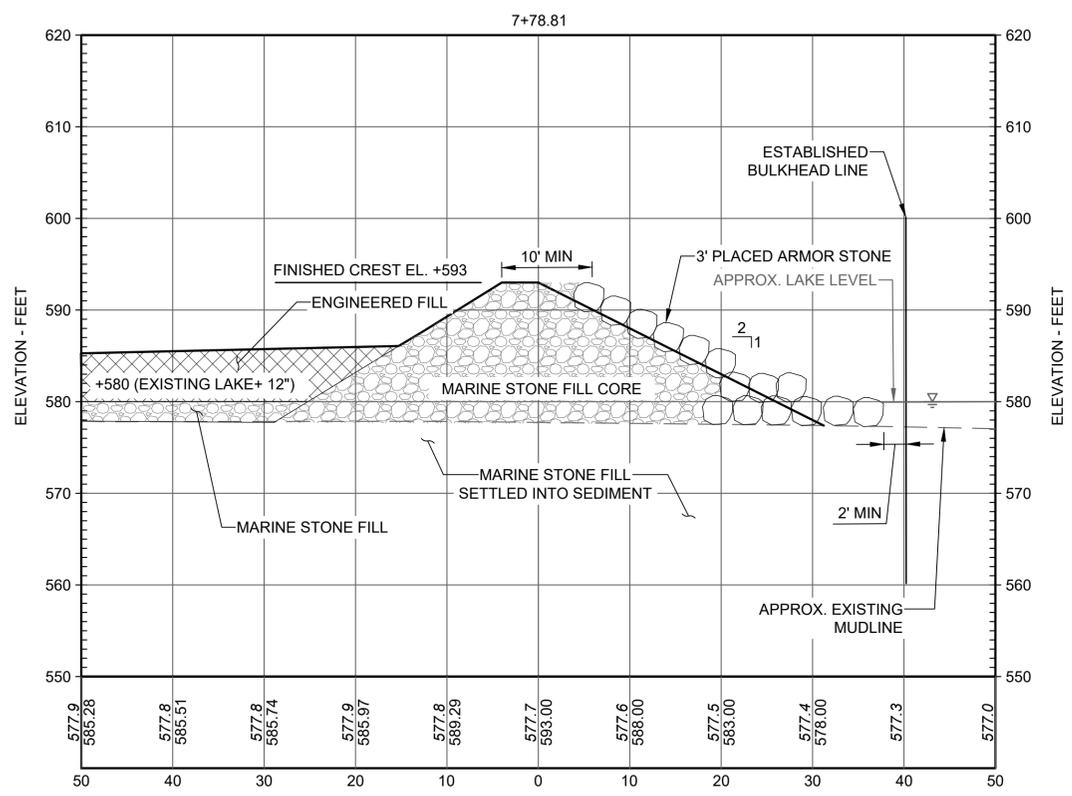
SHEET NAME
**REVETMENT
 SECTIONS 2**

SHEET NO.
SR302

FOR CONSTRUCTION



2 DETAIL
 C-130 RIP RAP CROSS SECTION SCALE: 1" = 10'



3 DETAIL
 C-130 RIP RAP CROSS SECTION SCALE: 1" = 10'