



MAYFLOWER WIND

Appendix C. Conceptual Project Design Drawings

Document Revision A

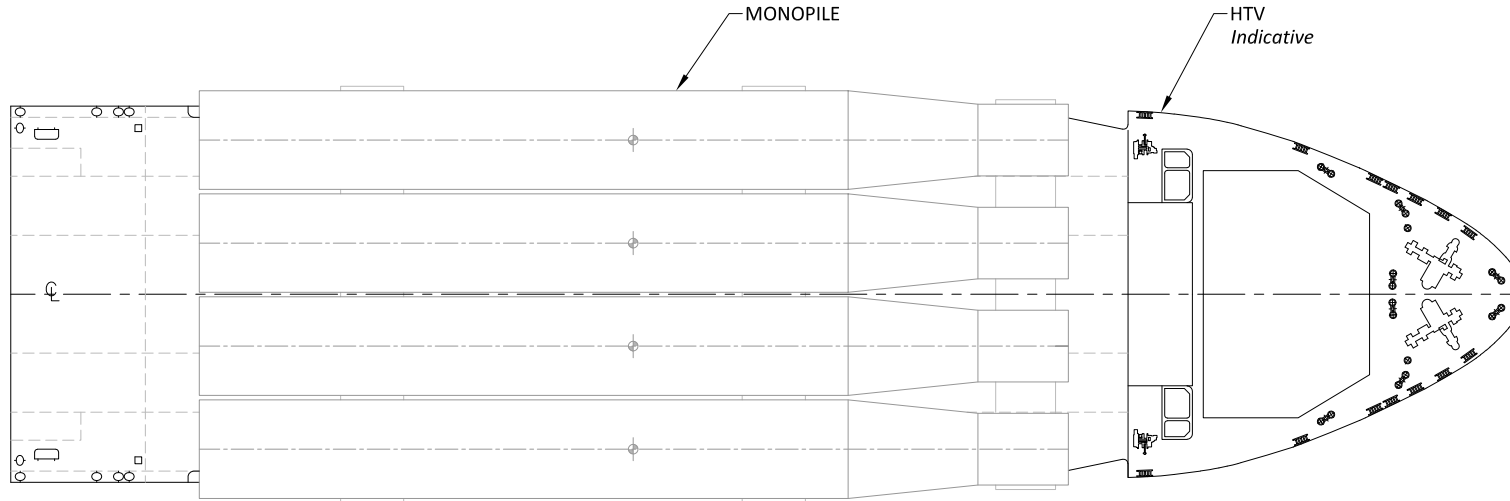
Issue Date February 2021



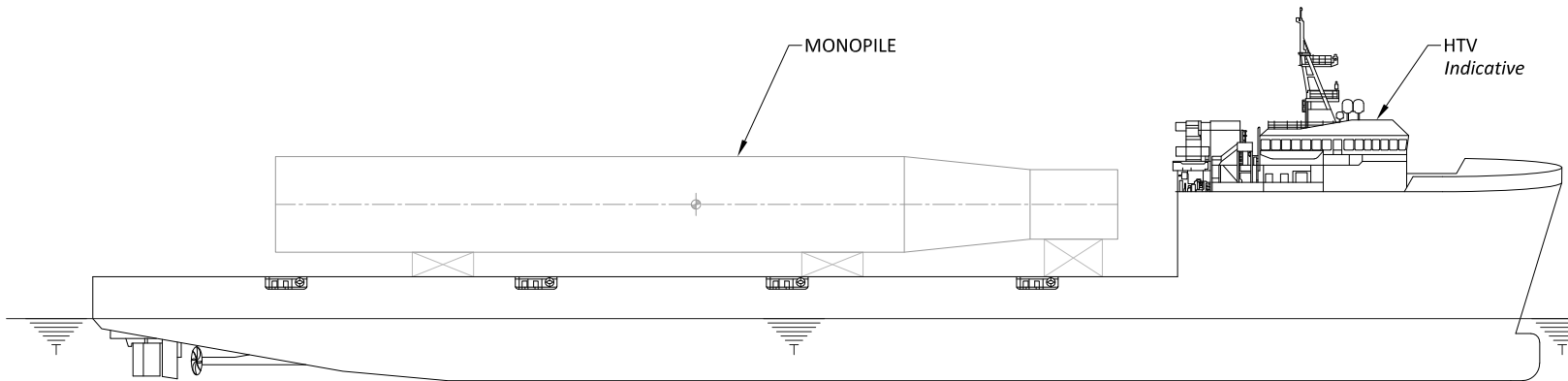
CONCEPT ONLY

Notes:

1. HTV denotes Heavy Transport Vessel.
2. Monopile indicative only pending manufacturer information.



PLAN VIEW



ELEVATION VIEW

D			
C			
B	2021-1-5	Isaack	Danielle/Greg
A	2020-12-29	Isaack	Danielle
Rev.	Date	Drafter	Approver

Project
MAYFLOWER WIND FARM

Title
LAYOUT OF MONOPILES ON HTV

Company

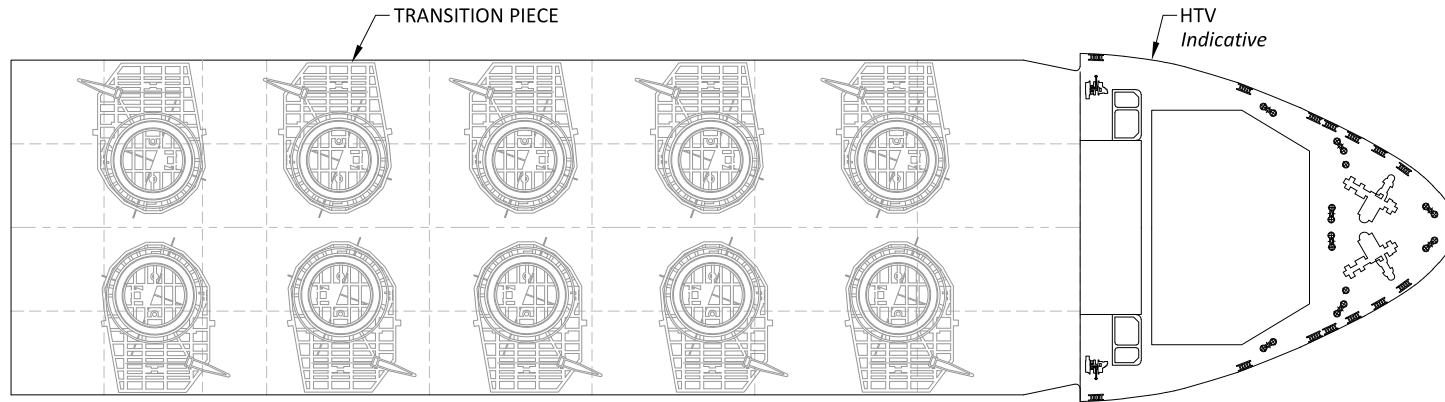
MAYFLOWER WIND ENERGY LLC
 2 Drydock Avenue
 Boston, MA 02210

Size	Proj No	Dwg No
A4	MAY-COP-2020	001

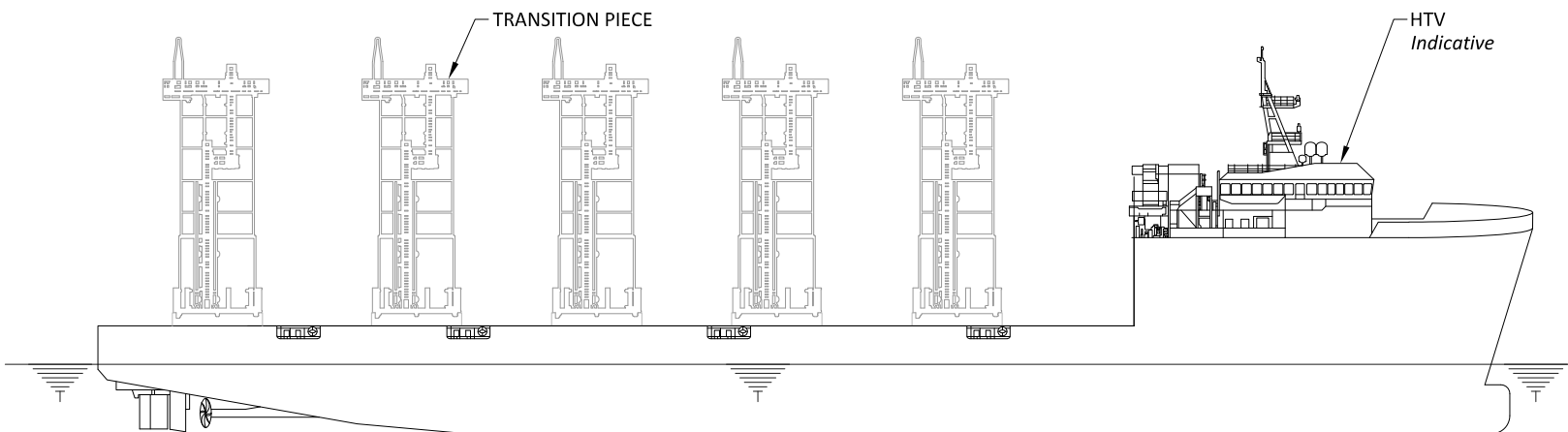
CONCEPT ONLY

Notes:

1. HTV denotes Heavy Transport Vessel.
2. Transition piece indicative only pending manufacturer information.



PLAN VIEW



ELEVATION VIEW

D			
C			
B	2021-1-5	Isaack	Danielle/Greg
A	2020-12-28	Isaack	Danielle
Rev.	Date	Drafter	Approver

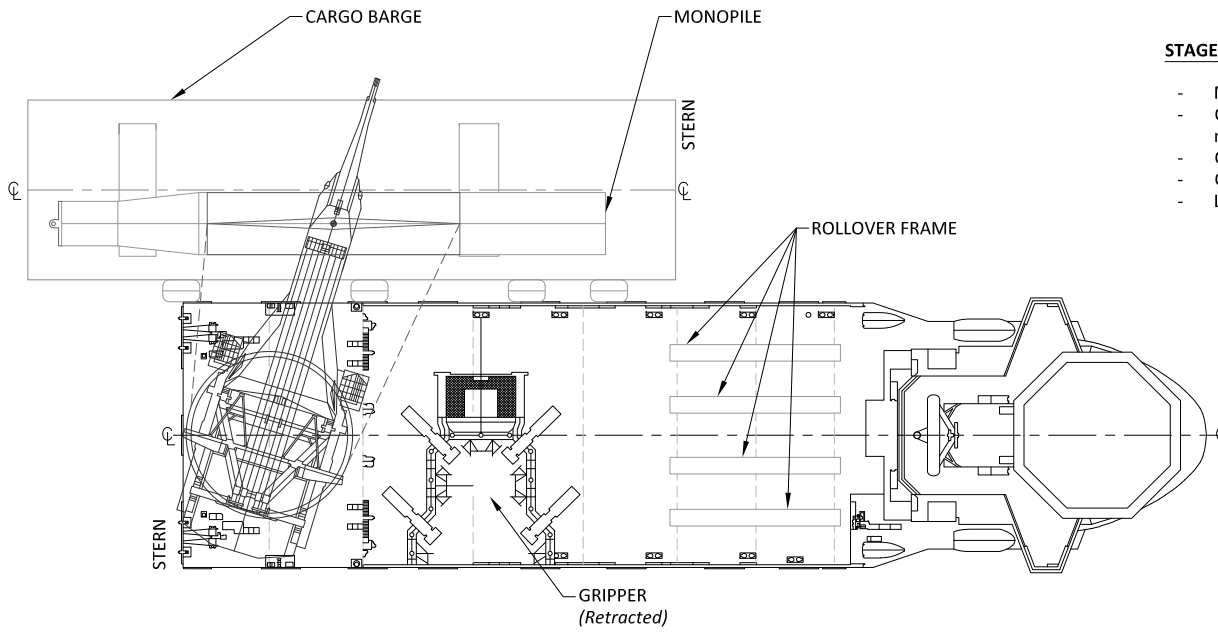
Project
MAYFLOWER WIND FARM

Title
**LAYOUT OF TRANSITION
PIECES ON HTV**

Company

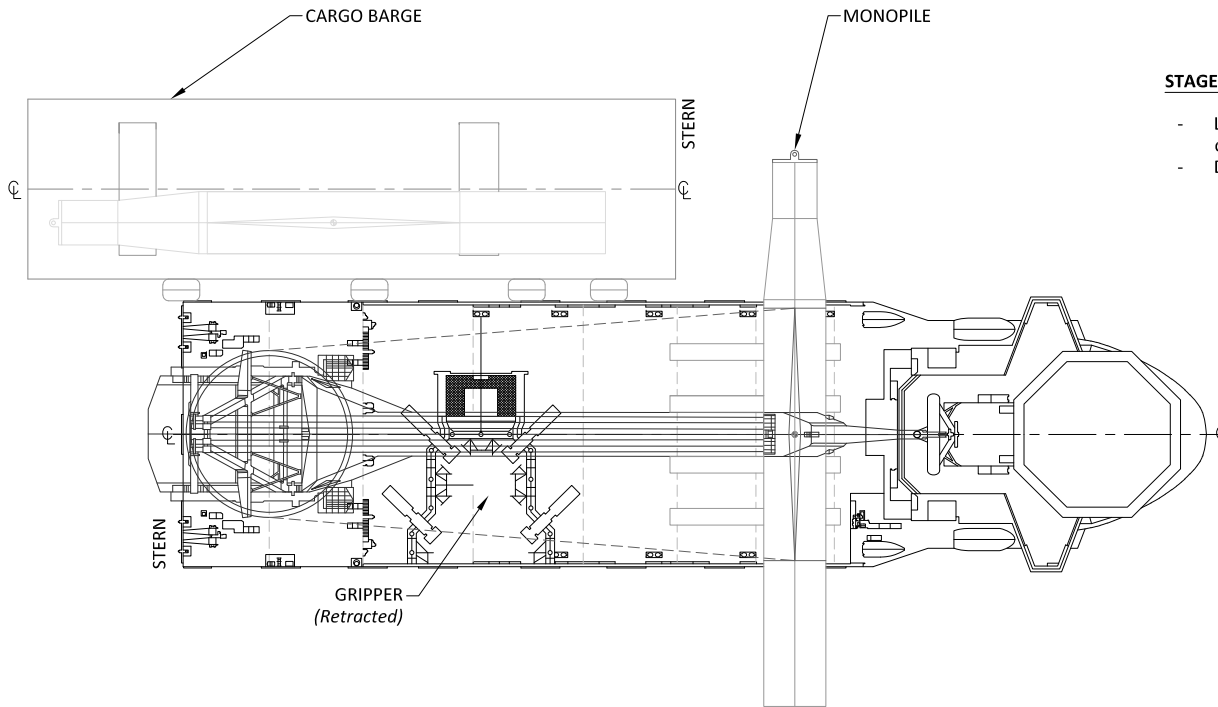
MAYFLOWER WIND ENERGY LLC
 2 Drydock Avenue
 Boston, MA 02210

Size	Proj No	Dwg No
A4	MAY-COP-2020	002



STAGE 1

- Moor cargo barge along starboard HL.V.
- Connect spreader bar and transfer rigging to main hook and slew to cargo barge,
- Connect transfer rigging to monopile.
- Cut sea fastening.
- Lift-off monopile.



STAGE 2

- Lower monopile on to rollover frame on HL.V deck.
- Disconnect monopile transfer rigging.

D			
C	2021-1-7	Isaack	Danielle/Greg
B	2021-1-5	Isaack	Danielle/Greg
A	2020-12-30	Isaack	Danielle
Rev.	Date	Drafter	Approver

Project **MAYFLOWER WIND FARM**

Title **MONOPILE INSTALLATION SEQUENCE STAGE 1 & 2**

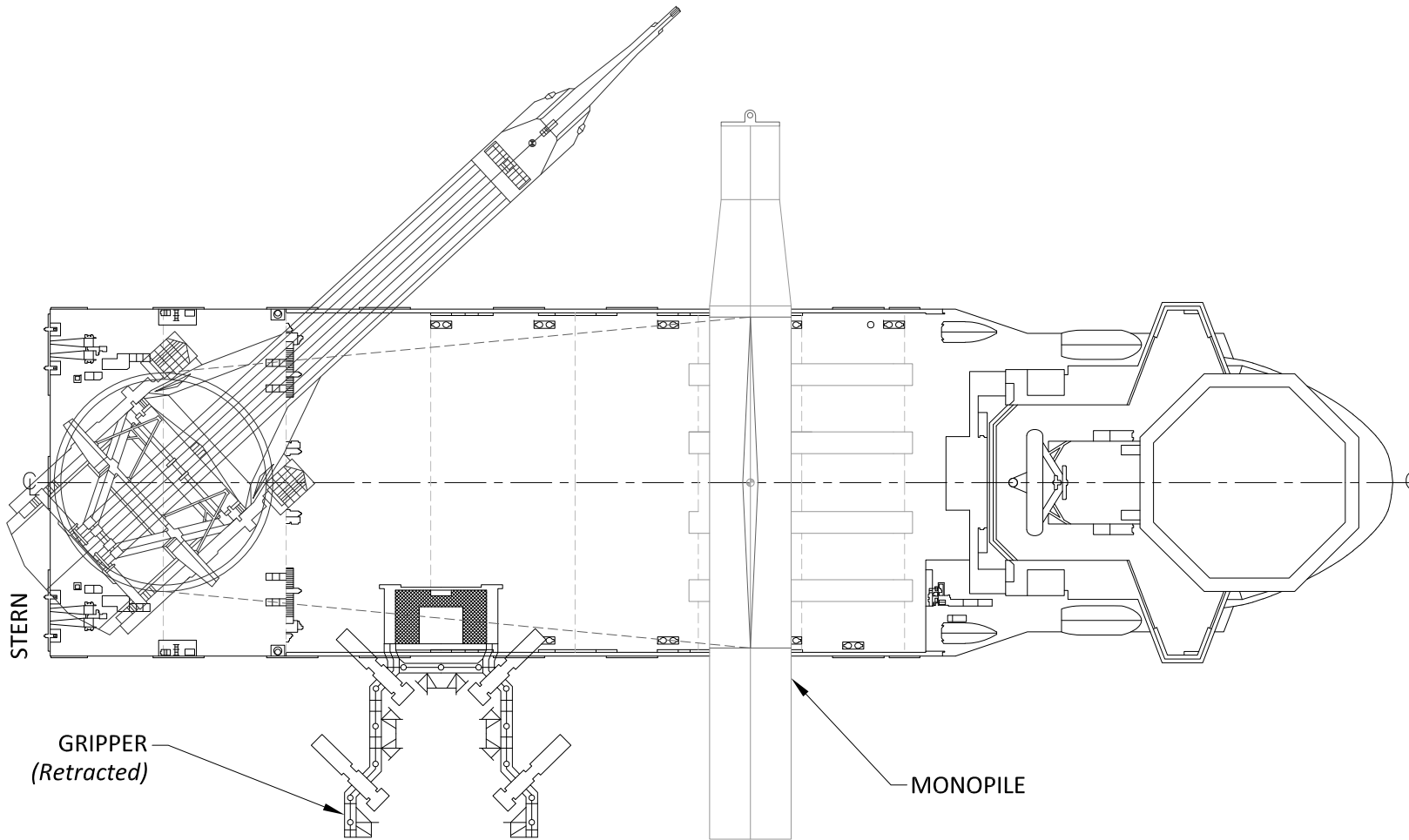
Company

MAYFLOWER WIND ENERGY LLC
 2 Drydock Avenue
 Boston, MA 02210

Size	Proj No	Dwg No
A4	MAY-COP-2020	003

STAGE 3

- Upend monopile.



D			
C	2021-1-7	Isaack	Danielle/Greg
B	2021-1-5	Isaack	Danielle/Greg
A	2020-12-30	Isaack	Danielle
Rev.	Date	Drafter	Approver

Project
MAYFLOWER WIND FARM

Title
**MONOPILE INSTALLATION SEQUENCE
STAGE 3**

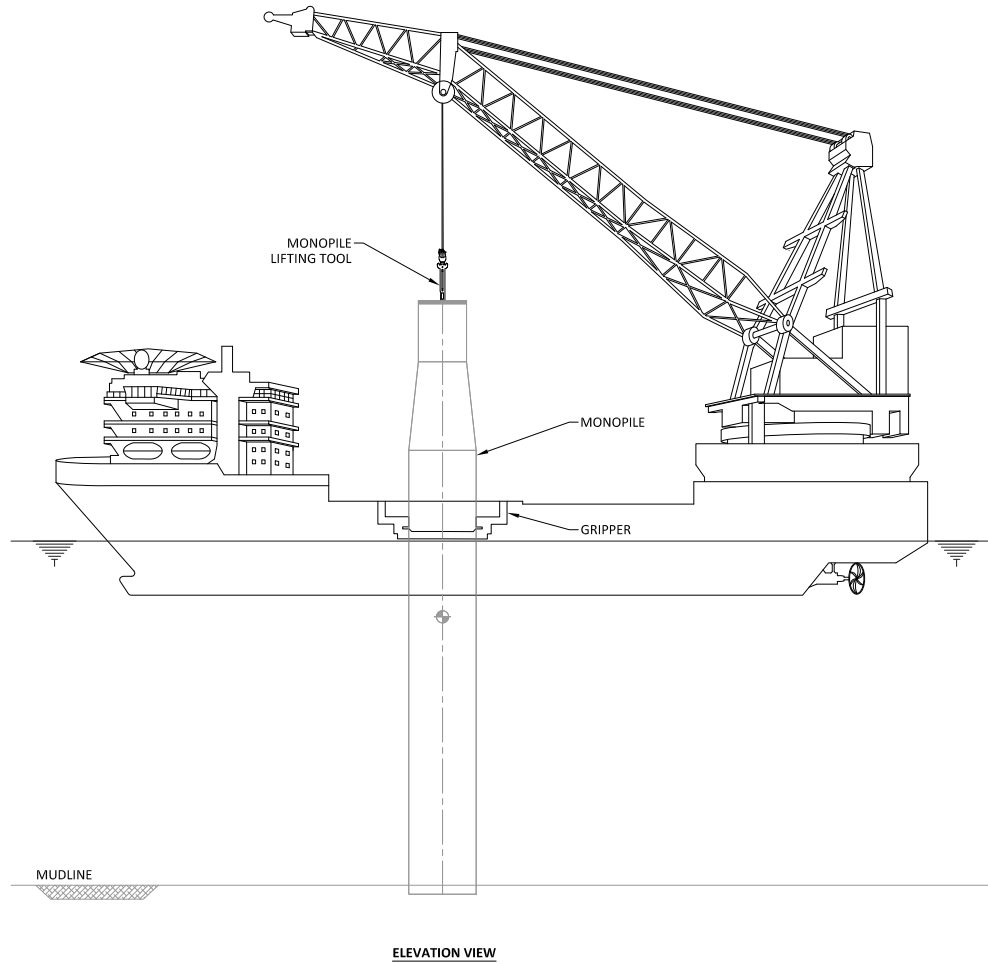
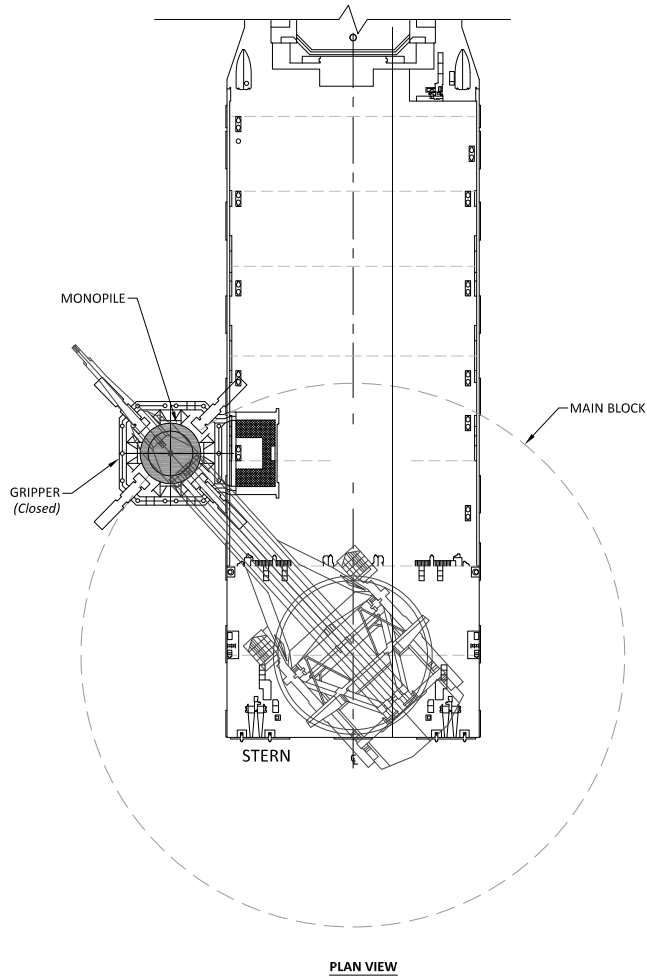
Company

MAYFLOWER WIND ENERGY LLC
 2 Drydock Avenue
 Boston, MA 02210

Size	Proj No	Dwg No
A4	MAY-COP-2020	004

STAGE 4

- Lower monopile in gripper.
- Close gates.



D	2021-1-12	Isaack	Danielle/Greg
C	2021-1-7	Isaack	Danielle/Greg
B	2021-1-5	Isaack	Danielle/Greg
A	2020-12-31	Isaack	Danielle
Rev.	Date	Drafter	Approver

Project **MAYFLOWER WIND FARM**

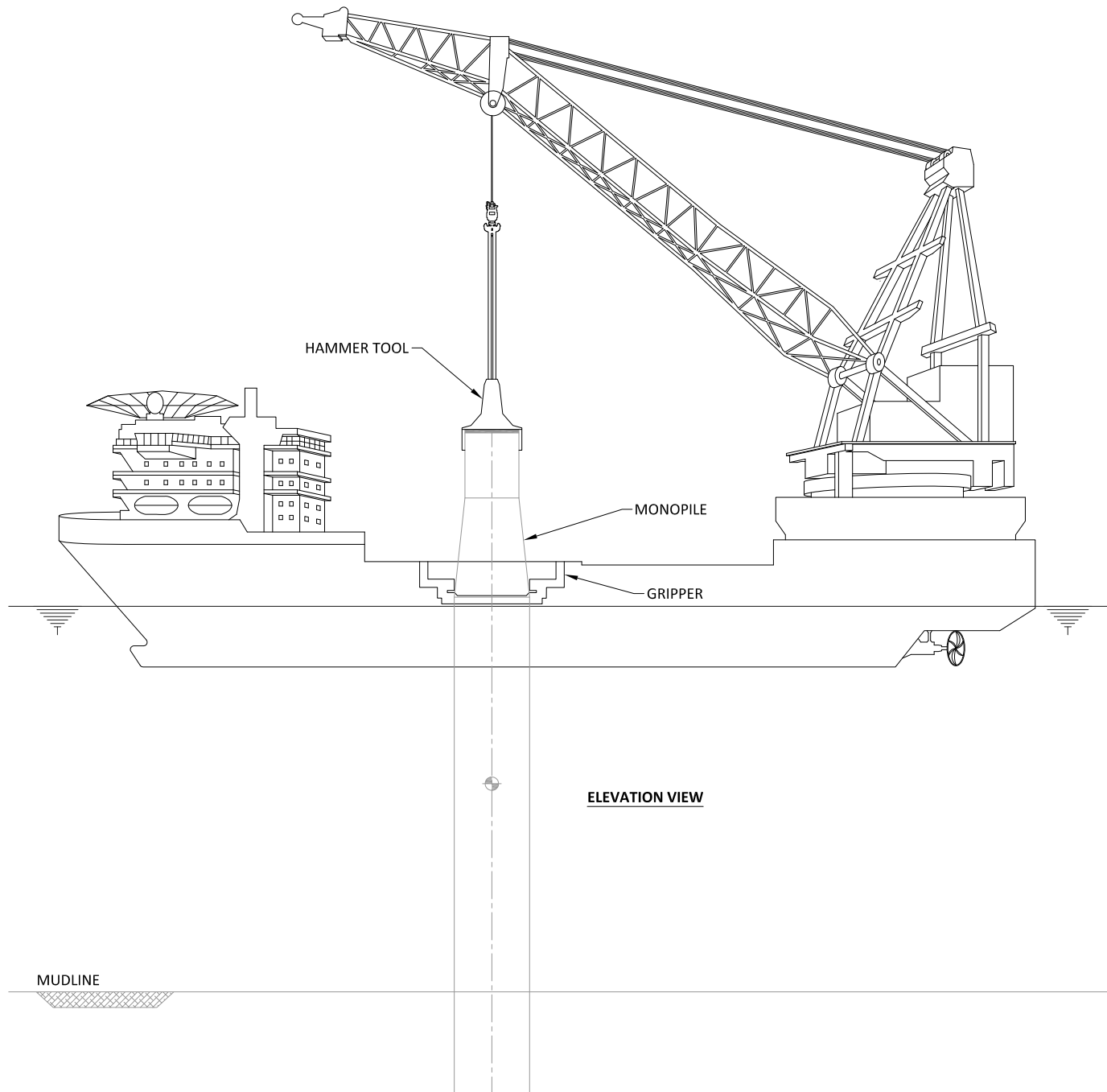
Title **MONOPILE INSTALLATION SEQUENCE STAGE 4**

Company
 **MAYFLOWER WIND ENERGY LLC**
 2 Drydock Avenue
 Boston, MA 02210

Size	Proj No	Dwg No
A4	MAY-COP-2020	005

STAGE 5

- Hammer the monopile to depth.



CONCEPT ONLY

Rev.	Date	Drafter	Approver
D	2021-1-12	Isaack	Danielle/Greg
C	2021-1-7	Isaack	Danielle/Greg
B	2021-1-5	Isaack	Danielle/Greg
A	2020-12-31	Isaack	Danielle

Project
MAYFLOWER WIND FARM

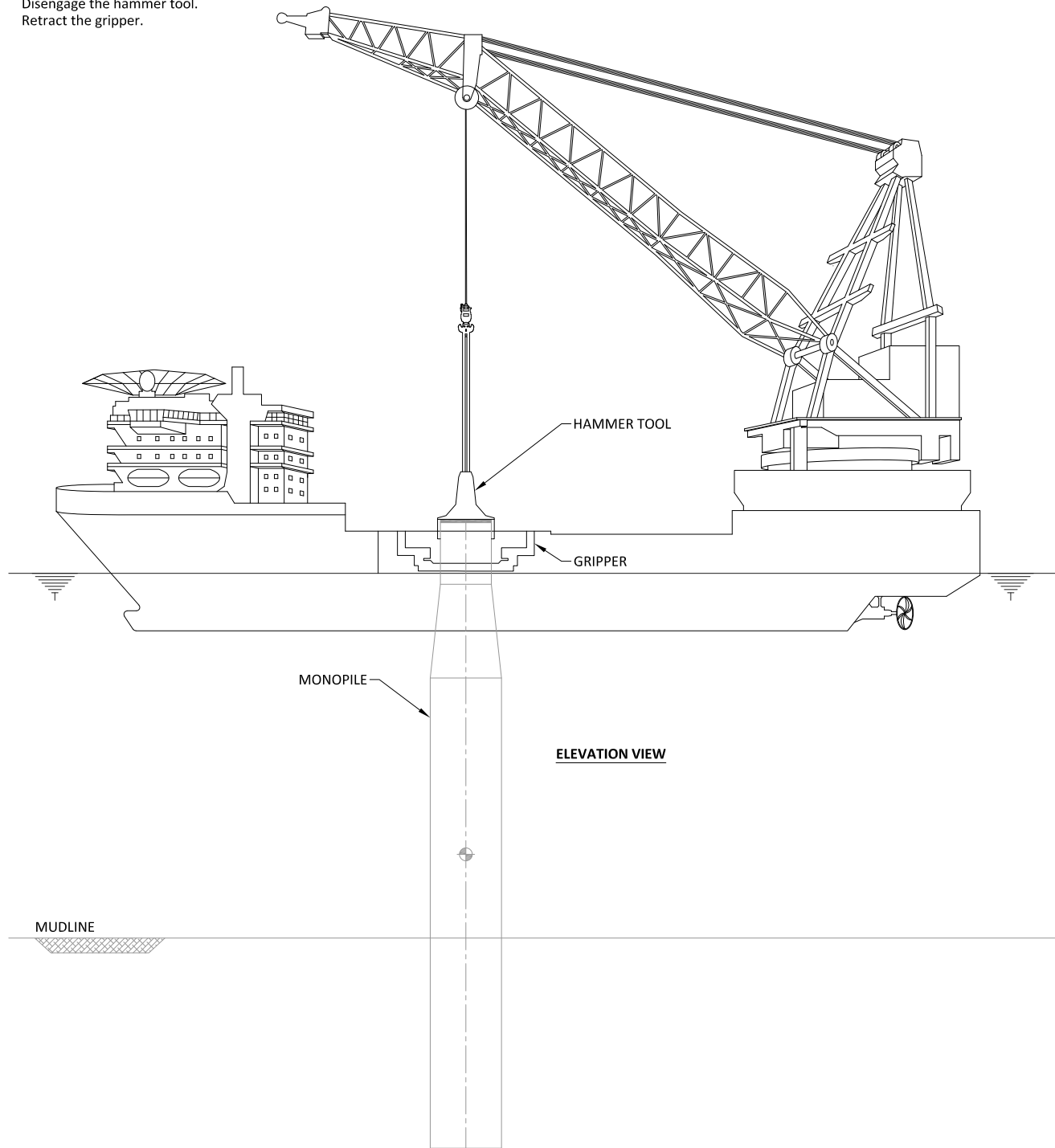
Title
**MONOPILE INSTALLATION SEQUENCE
STAGE 5**

Company
MAYFLOWER WIND ENERGY LLC
2 Drydock Avenue
Boston, MA 02210

Size	Proj No	Dwg No
A4	MAY-COP-2020	006

STAGE 6

- Disengage the hammer tool.
- Retract the gripper.



CONCEPT ONLY

D	2021-1-12	Isaack	Danielle/Greg
C	2021-1-7	Isaack	Danielle/Greg
B	2021-1-5	Isaack	Danielle/Greg
A	2020-12-31	Isaack	Danielle
Rev.	Date	Drafter	Approver

Project
MAYFLOWER WIND FARM

Title
**MONOPILE INSTALLATION SEQUENCE
STAGE 6**

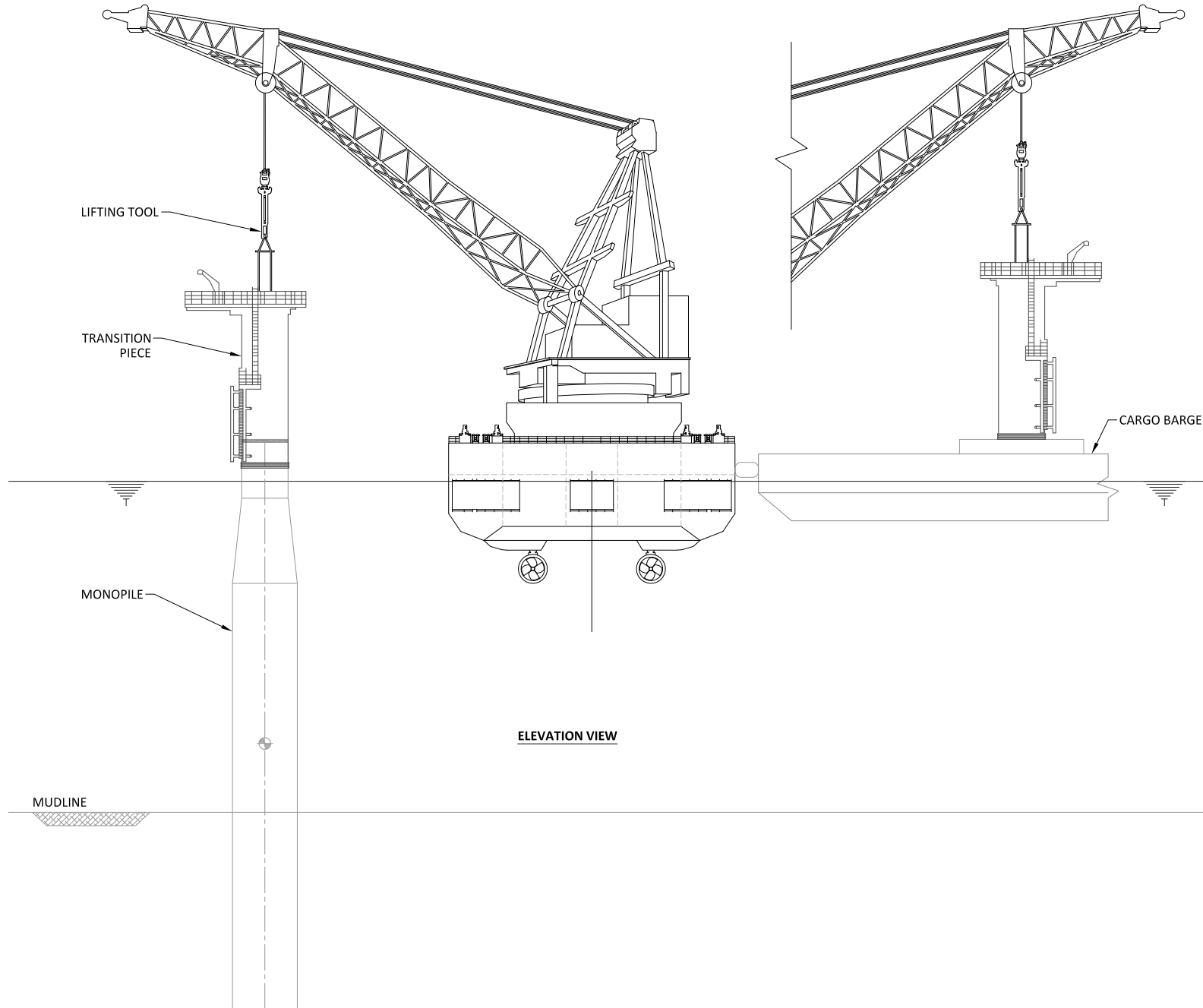
Company

MAYFLOWER WIND ENERGY LLC
 2 Drydock Avenue
 Boston, MA 02210

Size	Proj No	Dwg No
A4	MAY-COP-2020	007

Notes:

- Lift the transition piece off cargo barge with lifting tool and position over the monopile.
- Lower the transition piece on top of the monopile.



D			
C	2021-1-13	Isaack	Danielle/Greg
B	2021-1-12	Isaack	Danielle/Greg
A	2020-1-7	Isaack	Danielle/Greg
Rev.	Date	Drafter	Approver

Project
MAYFLOWER WIND FARM

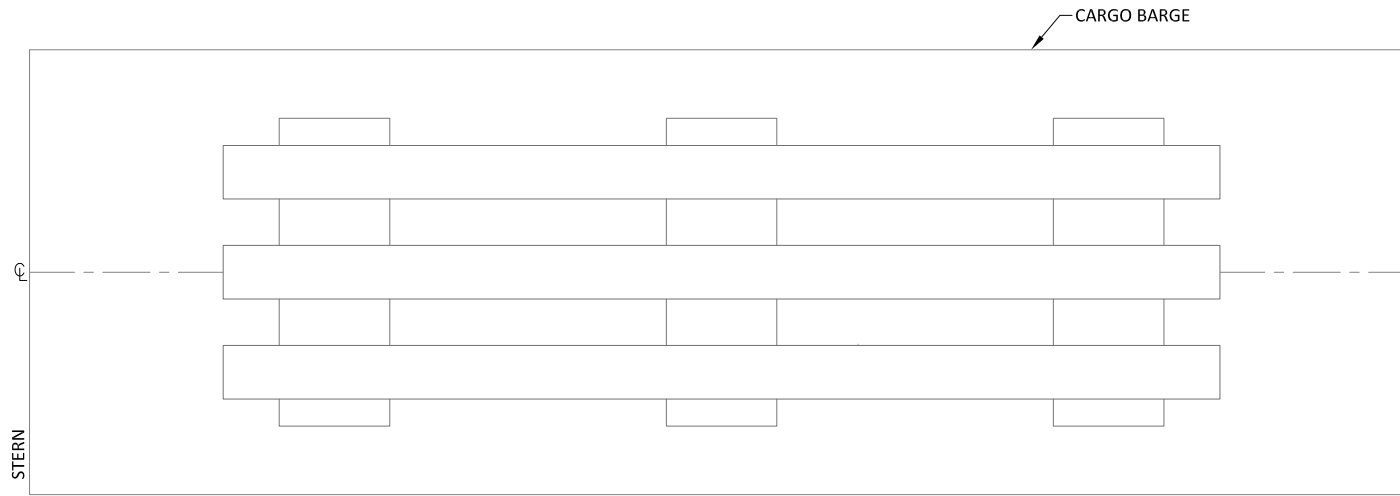
Title
LIFT-OFF AND INSTALLATION OF TRANSITION PIECE

Company

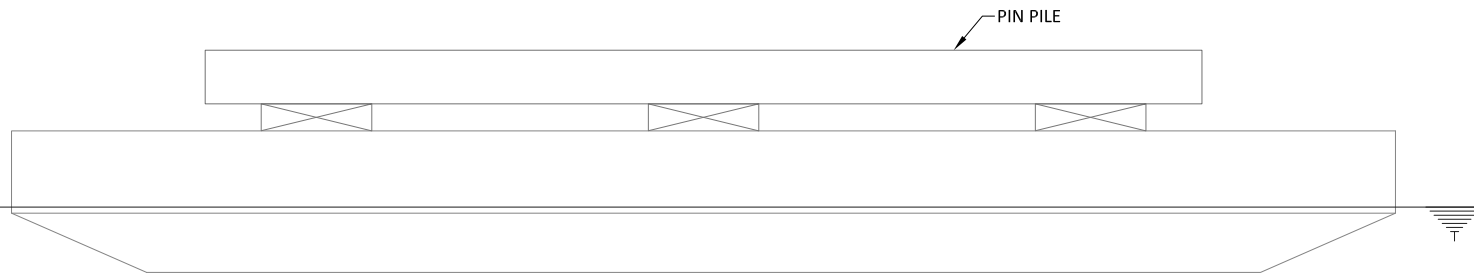
MAYFLOWER WIND ENERGY LLC
 2 Drydock Avenue
 Boston, MA 02210

Size	Proj No	Dwg No
A4	MAY-COP-2020	008

CONCEPT ONLY



PLAN VIEW



ELEVATION VIEW

D			
C			
B	2020 -1-29	Isaack	Danielle/Greg
A	2020 -1-19	Isaack	Danielle/Greg
Rev.	Date	Drafter	Approver

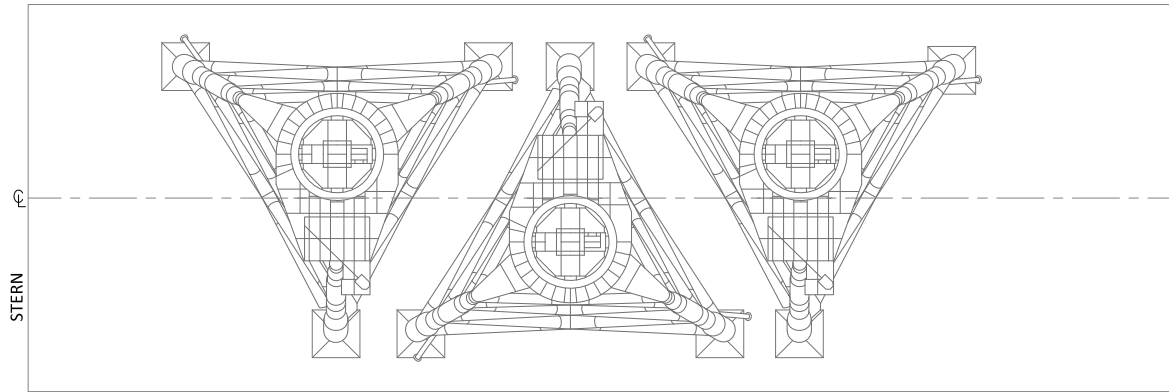
Project
MAYFLOWER WIND FARM

Title
LAYOUT OF PRE-PILE JACKET PILES ON CARGO BARGE

Company
 **MAYFLOWER WIND ENERGY LLC**
2 Drydock Avenue
Boston, MA 02210

Size	Proj No	Dwg No
A4	MAY-COP-2020	009

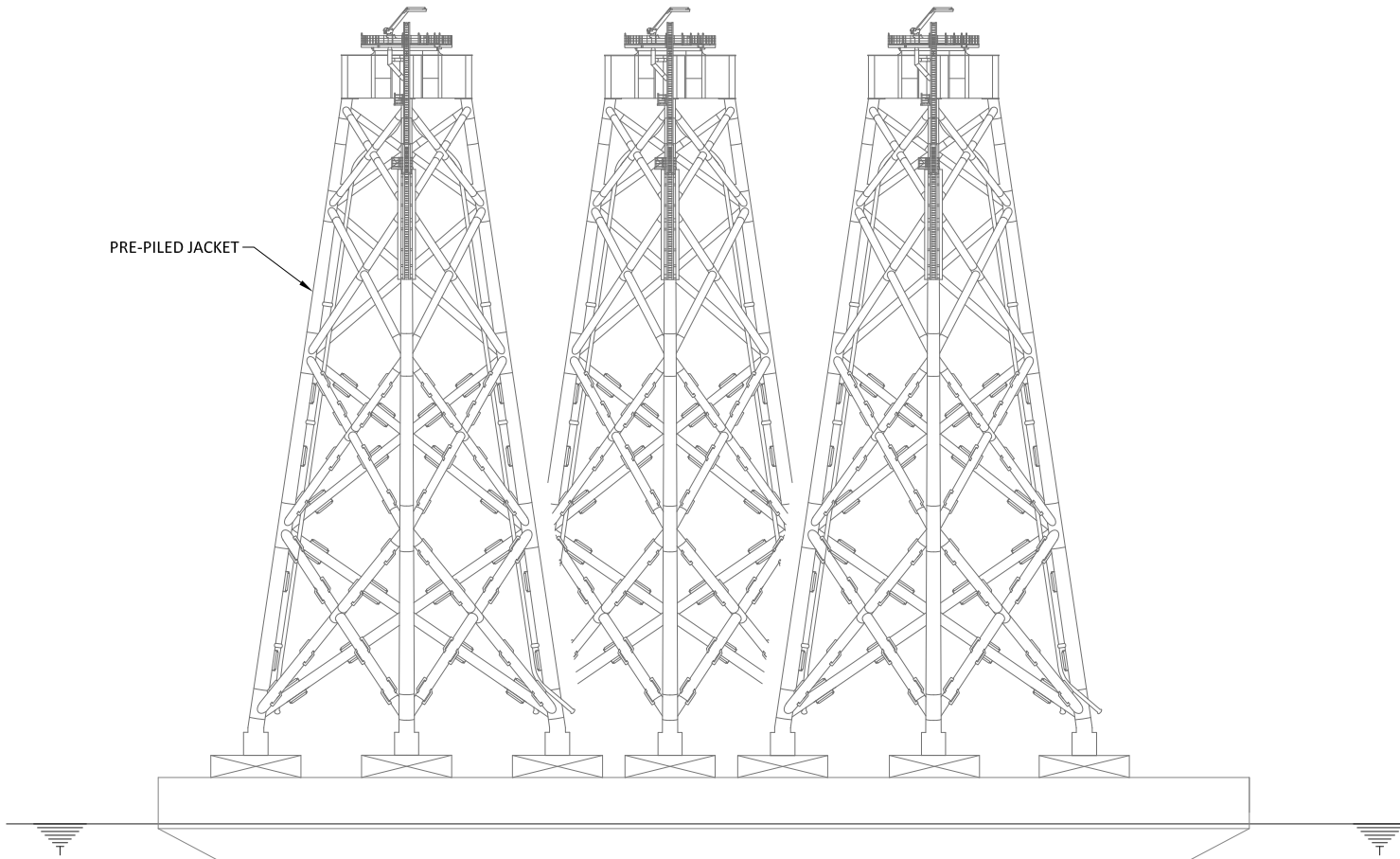
CONCEPT ONLY



PLAN VIEW

CARGO BARGE

PRE-PILED JACKET



ELEVATION VIEW

D			
C			
B	2020 -1-29	Isaack	Danielle/Greg
A	2020 -1-19	Isaack	Danielle/Greg
Rev.	Date	Drafter	Approver

Project
MAYFLOWER WIND FARM

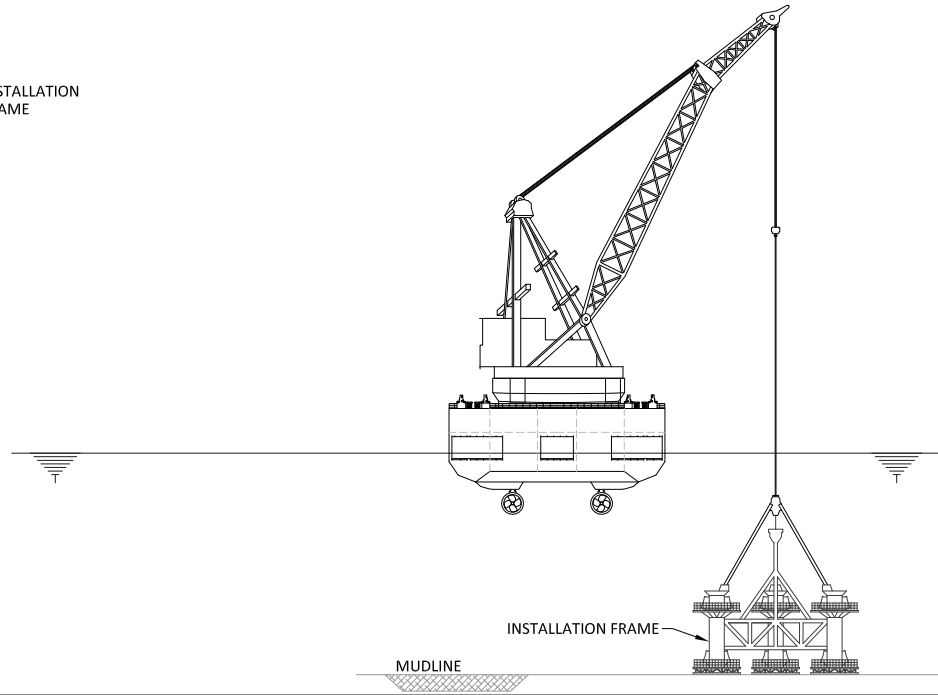
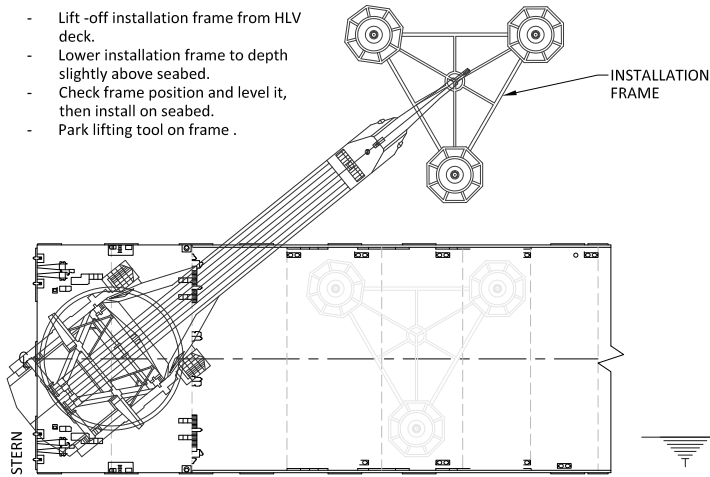
Title
LAYOUT OF PRE-PILE JACKETS ON CARGO BARGE

Company
MAYFLOWER WIND ENERGY LLC
2 Drydock Avenue
Boston, MA 02210

Size	Proj No	Dwg No
A4	MAY-COP-2020	010

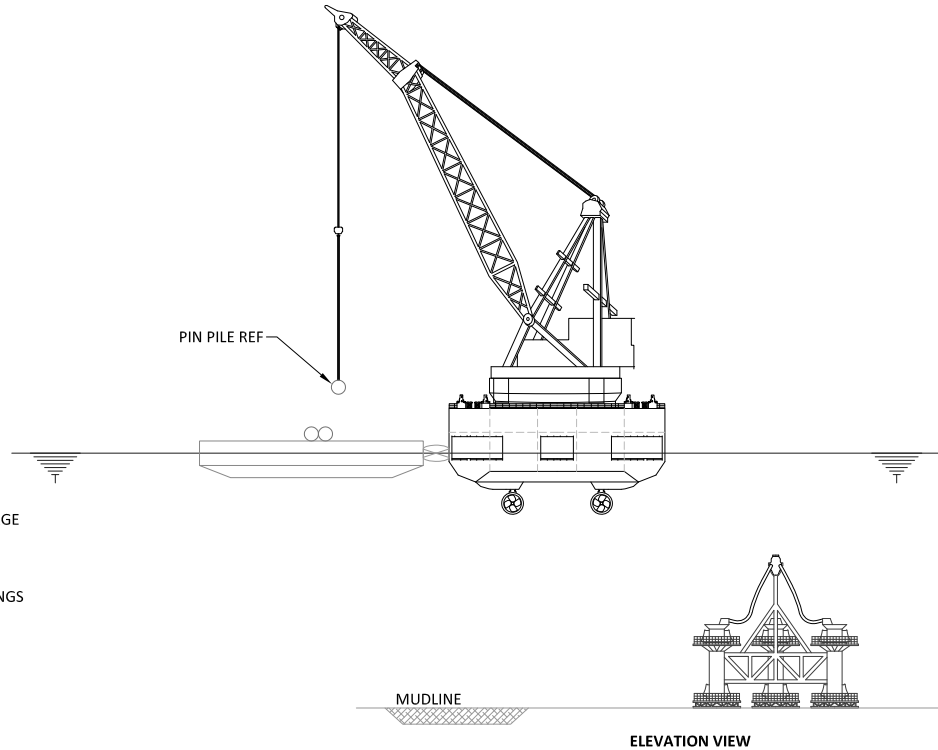
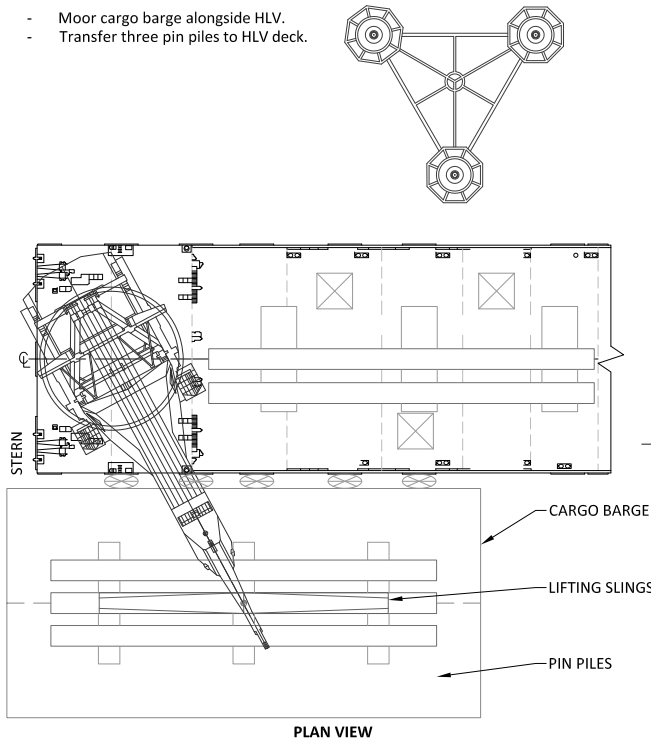
STAGE 1

- Lift -off installation frame from HLV deck.
- Lower installation frame to depth slightly above seabed.
- Check frame position and level it, then install on seabed.
- Park lifting tool on frame .



STAGE 2

- Moor cargo barge alongside HLV.
- Transfer three pin piles to HLV deck.



CONCEPT ONLY

D			
C			
B	2021-1-29	Isaack	Danielle/Greg
A	2021-1-21	Isaack	Danielle/Greg
Rev.	Date	Drafter	Approver

Project **MAYFLOWER WIND FARM**

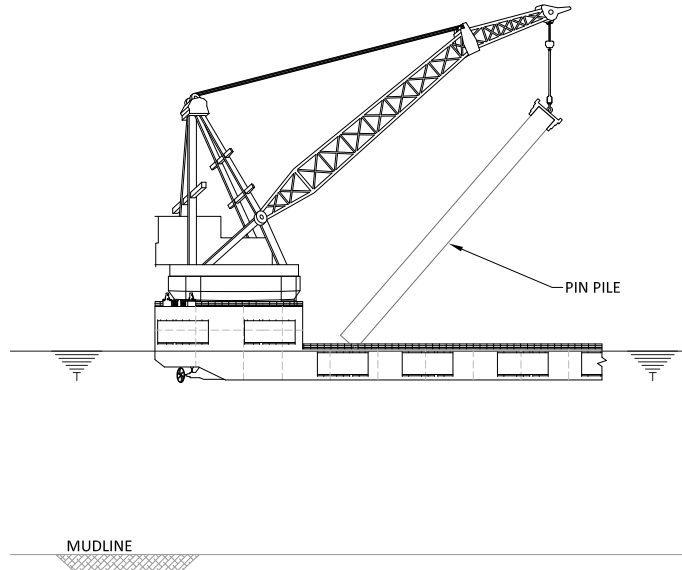
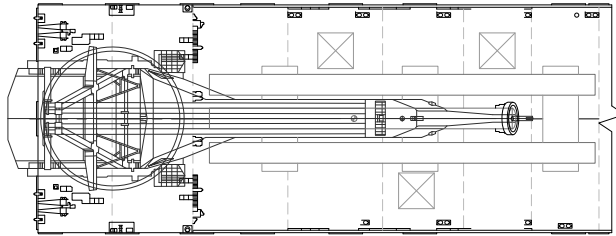
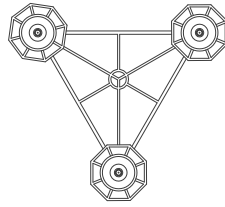
Title **PIN PILE INSTALLATION STAGE 1 & 2**

Company
 **MAYFLOWER WIND ENERGY LLC**
 2 Drydock Avenue
 Boston, MA 02210

Size	Proj No	Dwg No
A4	MAY-COP-2020	011

STAGE 3

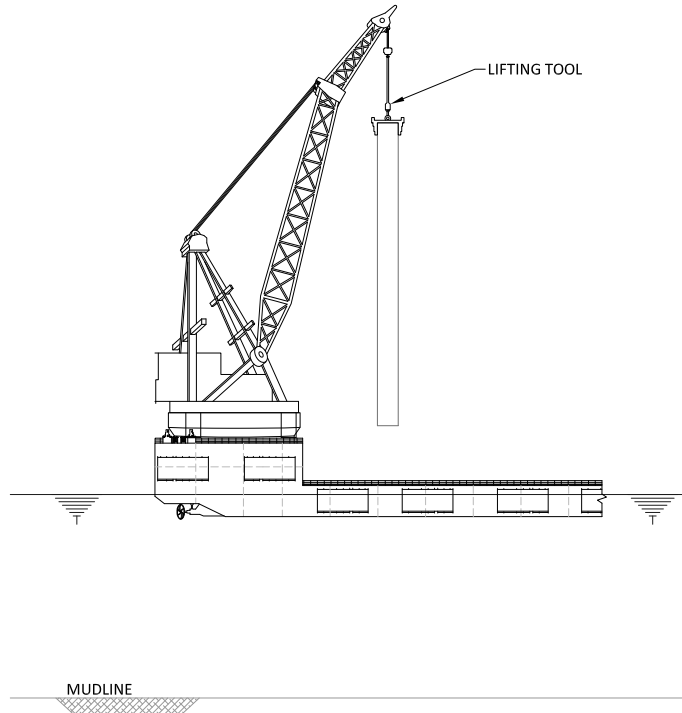
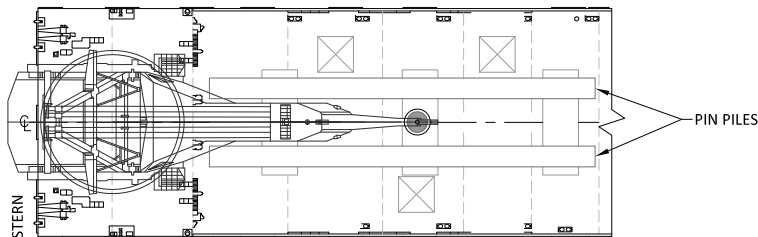
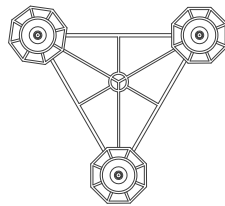
- Upend pin pile from HLV deck using the lifting tool.



MUDLINE

STAGE 4

- Lift-off pin pile from HLV deck using the lifting tool.



MUDLINE

PLAN VIEW

ELEVATION VIEW

D			
C			
B			
A	2021-1-22	Isaack	Danielle/Greg
Rev.	Date	Drafter	Approver

Project
MAYFLOWER WIND FARM

Title
PIN PILE INSTALLATION STAGE 3 & 4

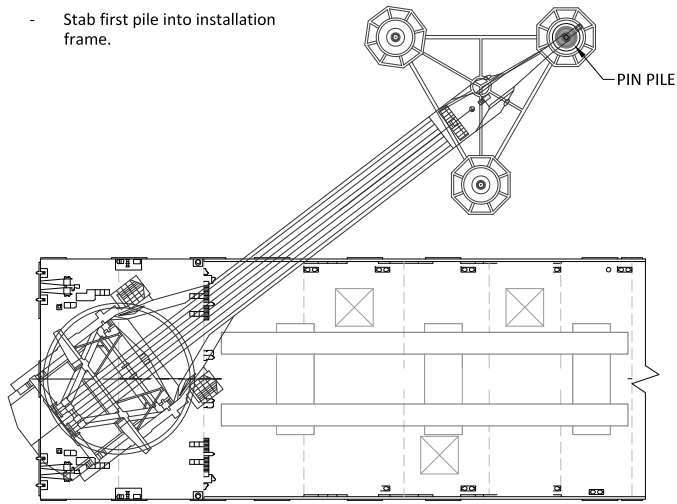
Company

MAYFLOWER WIND ENERGY LLC
 2 Drydock Avenue
 Boston, MA 02210

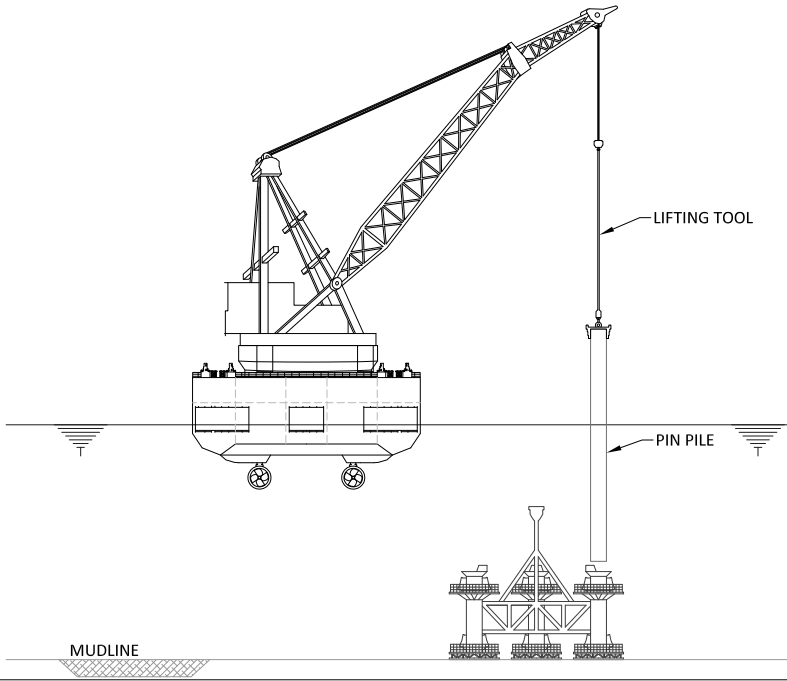
Size	Proj No	Dwg No
A4	MAY-COP-2020	012

STAGE 5

- Stab first pile into installation frame.



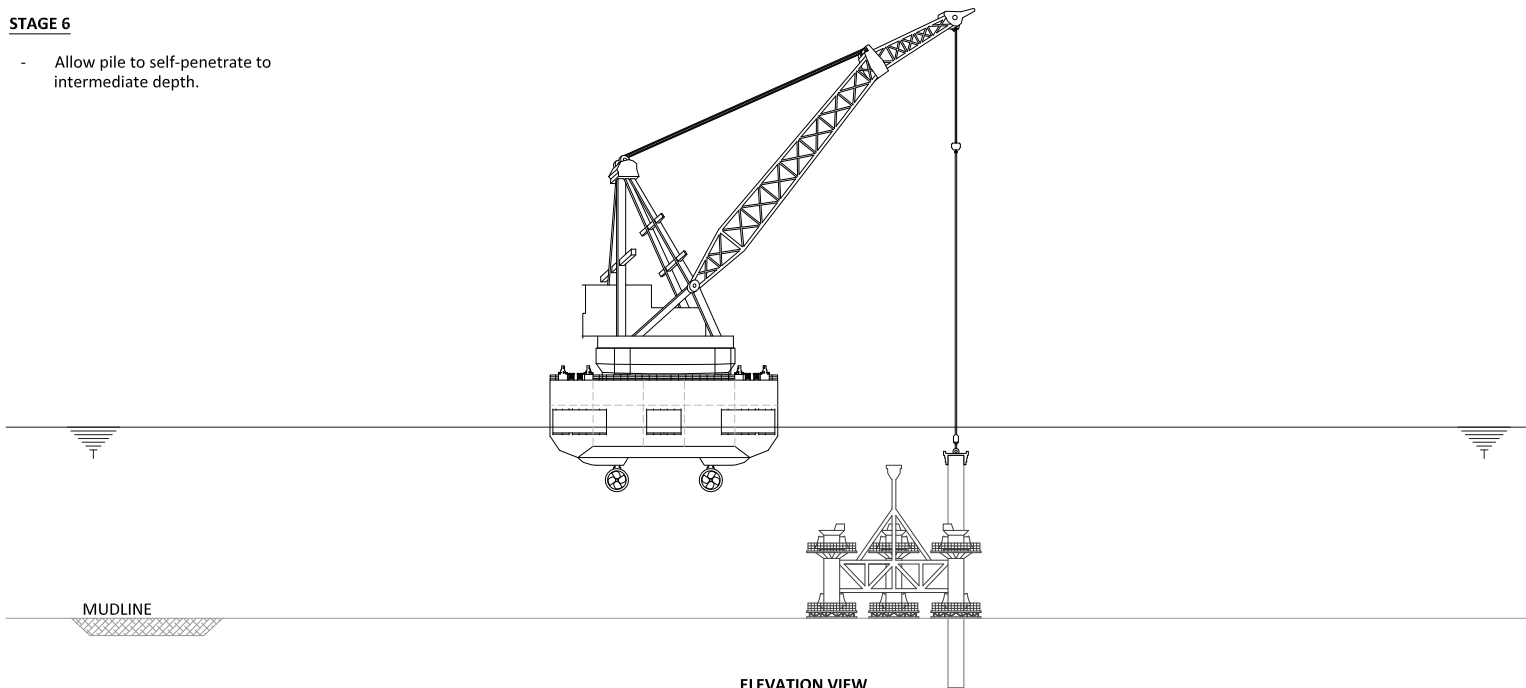
PLAN VIEW



MUDLINE

STAGE 6

- Allow pile to self-penetrate to intermediate depth.



ELEVATION VIEW

CONCEPT ONLY

D			
C			
B	2021-1-29	Isaack	Danielle/Greg
A	2021-1-23	Isaack	Danielle/Greg
Rev.	Date	Drafter	Approver

Project
MAYFLOWER WIND FARM

Title
PIN PILE INSTALLATION STAGE 5 & 6

Company

MAYFLOWER WIND ENERGY LLC
 2 Drydock Avenue
 Boston, MA 02210

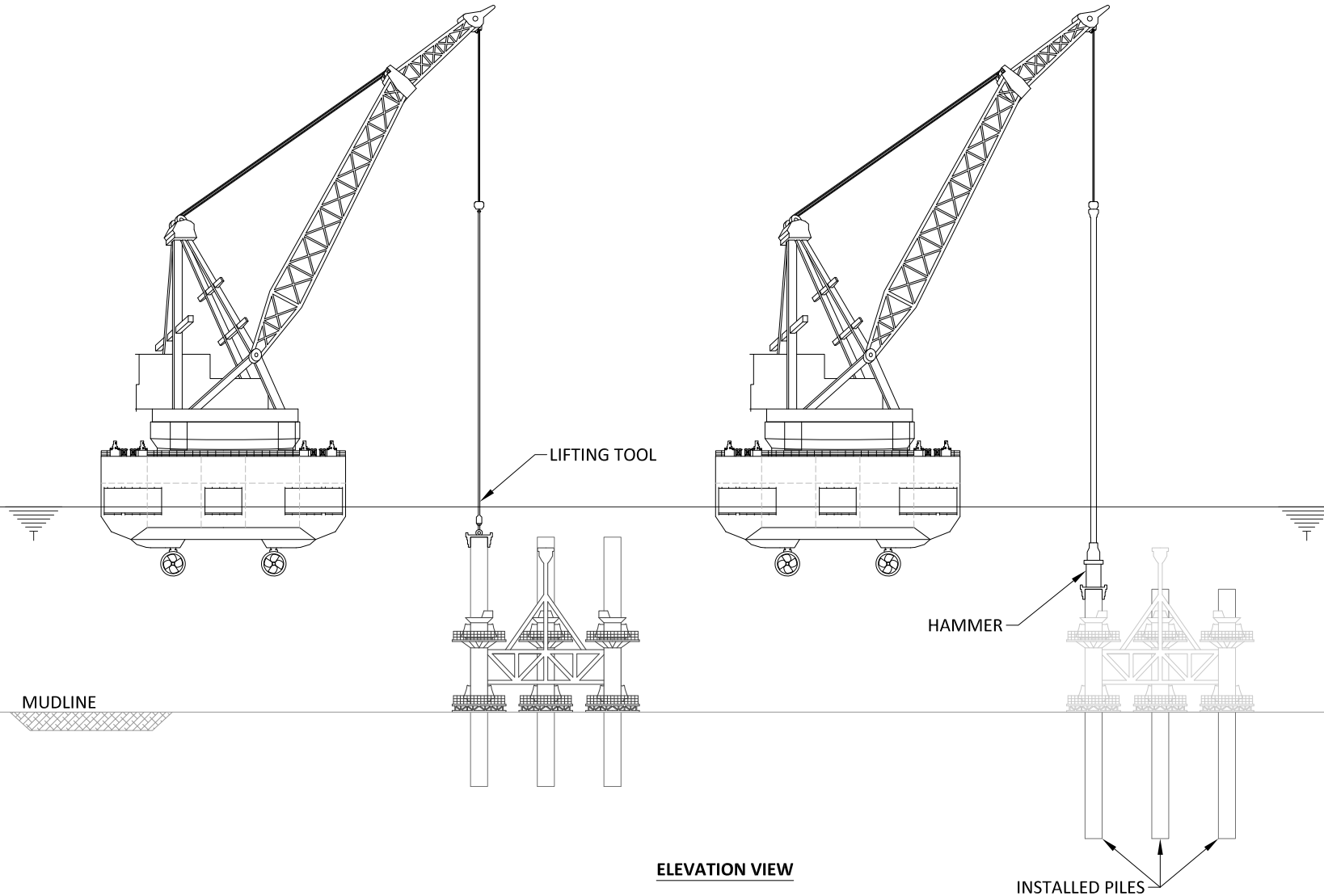
Size	Proj No	Dwg No
A4	MAY-COP-2020	013

STAGE 7

- Transfer the next pile to pile upend location and repeat stages 3 to 6 for the remaining two pin piles.

STAGE 8

- Install the hammer.
- Hammer the pin pile to target depth and repeat for the remaining two piles.
- Recover installation frame.



ELEVATION VIEW

D			
C			
B			
A	2021-1-23	Isaack	Danielle/Greg
Rev.	Date	Drafter	Approver

Project **MAYFLOWER WIND FARM**

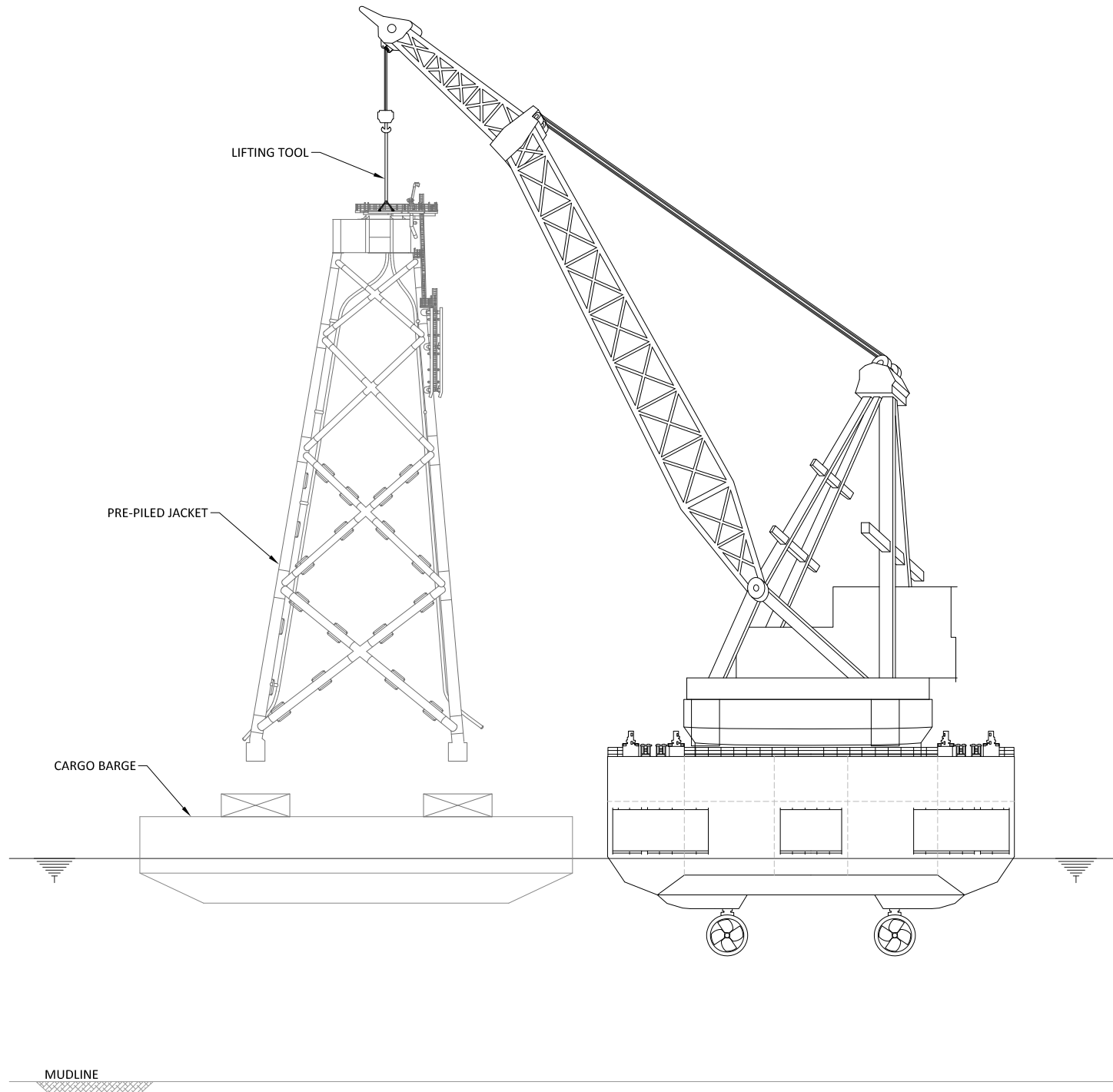
Title **PIN PILE INSTALLATION STAGE 7 & 8**

Company

MAYFLOWER WIND ENERGY LLC
 2 Drydock Avenue
 Boston, MA 02210

Size	Proj No	Dwg No
A4	MAY-COP-2020	014

CONCEPT ONLY



D			
C			
B			
A	2021-1-29	Isaack	Danielle/Greg
Rev.	Date	Drafter	Approver

Project
MAYFLOWER WIND FARM

Title
PRE-PILED JACKET LIFT-OFF FROM CARGO BARGE

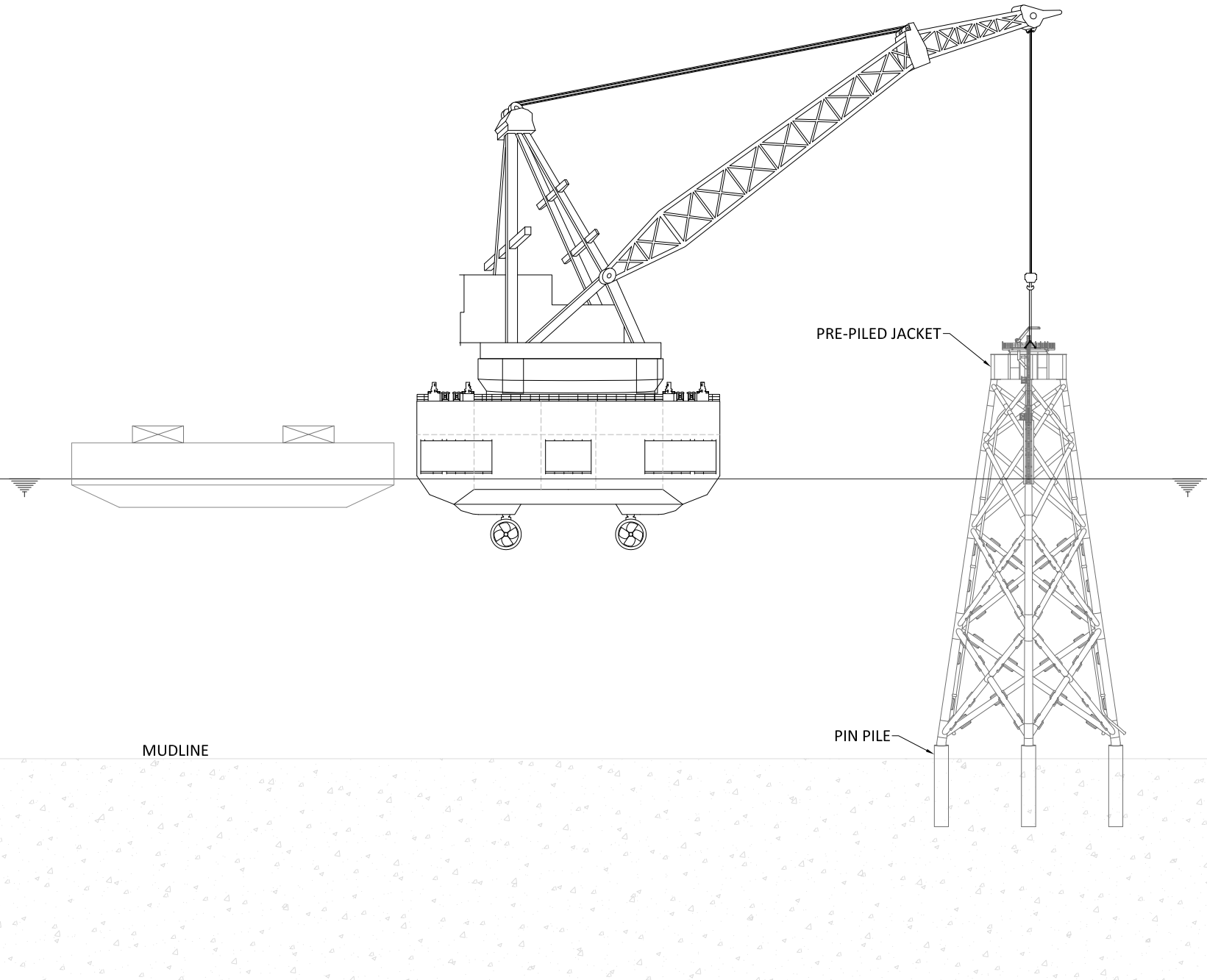
Company
 **MAYFLOWER WIND ENERGY LLC**
2 Drydock Avenue
Boston, MA 02210

Size	Proj No	Dwg No
A4	MAY-COP-2020	015

CONCEPT ONLY

Notes:

1. Jacket will be connected to pile foundations per jacket design.



D			
C			
B			
A	2021-2-5	Isaack	Danielle/Greg
Rev.	Date	Drafter	Approver

Project
MAYFLOWER WIND FARM

Title
PRE-PILED JACKET INSTALLATION

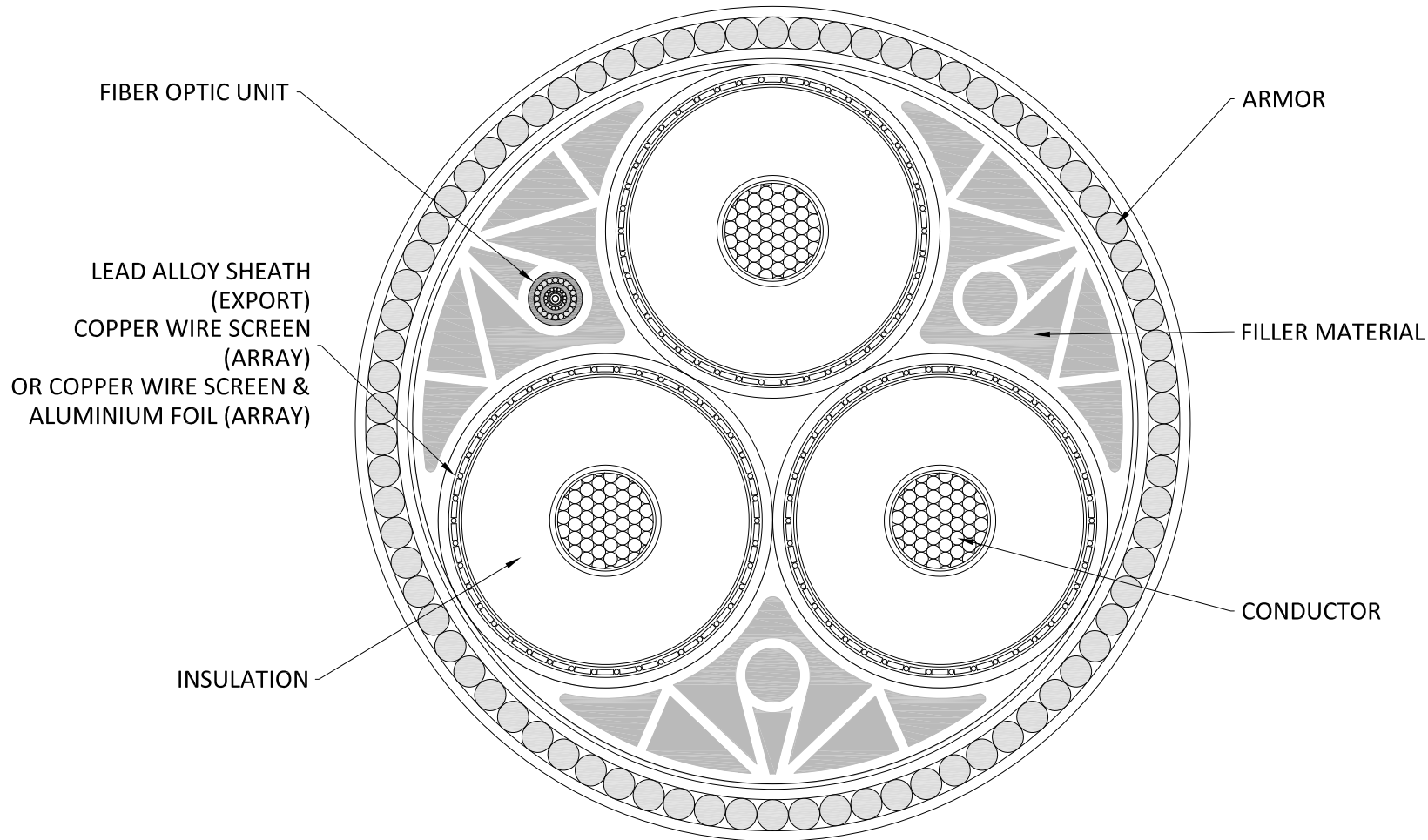
Company
 **MAYFLOWER WIND ENERGY LLC**
2 Drydock Avenue
Boston, MA 02210

Size	Proj No	Dwg No
A4	MAY-COP-2020	019

CONCEPT ONLY

Notes:

1. Final dimensions and design details to be provided by manufacturer.
2. Drawing not to scale.
3. Overall outer diameter ≈ 300mm



D	1 - 2 - 2021	Isaack	T. Reiher
C	4 - 1 - 2021	Isaack	T. Reiher
B	21 - 12 - 2020	Isaack	T. Reiher
A	11 - 12 - 2020	Isaack	T. Reiher
Rev.	Date	Drafter	Approver

Project
MAYFLOWER WIND FARM

Title
**SUBMARINE POWER CABLE
CROSS-SECTION**

Company

MAYFLOWER WIND ENERGY LLC
 2 Drydock Avenue
 Boston, MA 02210

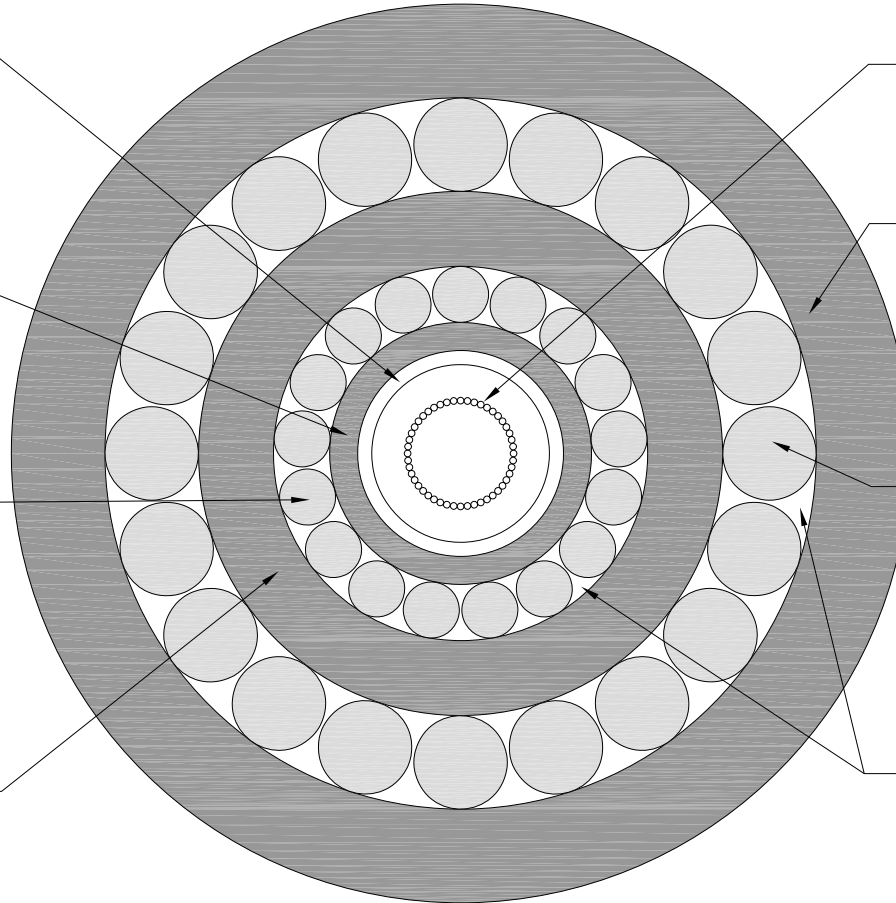
Size	Proj No	Dwg No
A4	MAY-COP-2020	016

METALLIC TUBE
SECONDARY PROTECTION

INNER SHEATH

ARMOR

SECOND SHEATH



OPTICAL FIBERS

OUTER PROTECTION

ARMOR

WATER BLOCKING

CONCEPT ONLY

Notes:

1. Final dimensions and design details to be provided by manufacturer.
2. Drawing not to scale.
3. Overall outer diameter \approx 24mm.

D			
C	1 - 2 - 2021	Isaack	T. Reiher
B	4 - 1 - 2021	Isaack	T. Reiher
A	21 -12 - 2020	Isaack	T. Reiher
Rev.	Date	Drafter	Approver

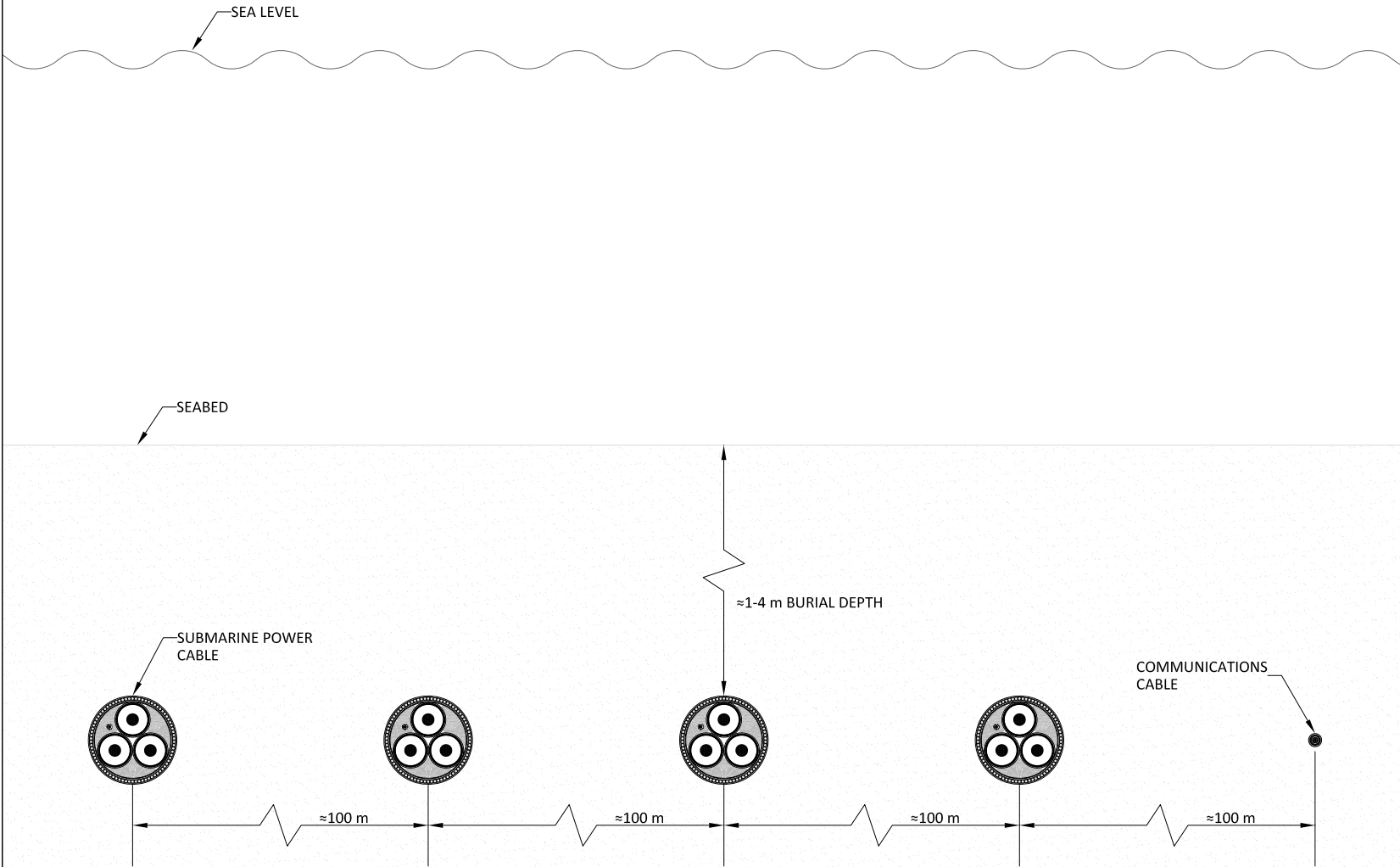
Project
MAYFLOWER WIND FARM

Title
**COMMUNICATIONS CABLE
CROSS-SECTION**

Company

MAYFLOWER WIND ENERGY LLC
 2 Drydock Avenue
 Boston, MA 02210

Size	Proj No	Dwg No
A4	MAY-COP-2020	017



D			
C			
B			
A	5 - 2 - 2021	Isaack	T. Reiher
Rev.	Date	Drafter	Approver

Project
MAYFLOWER WIND FARM

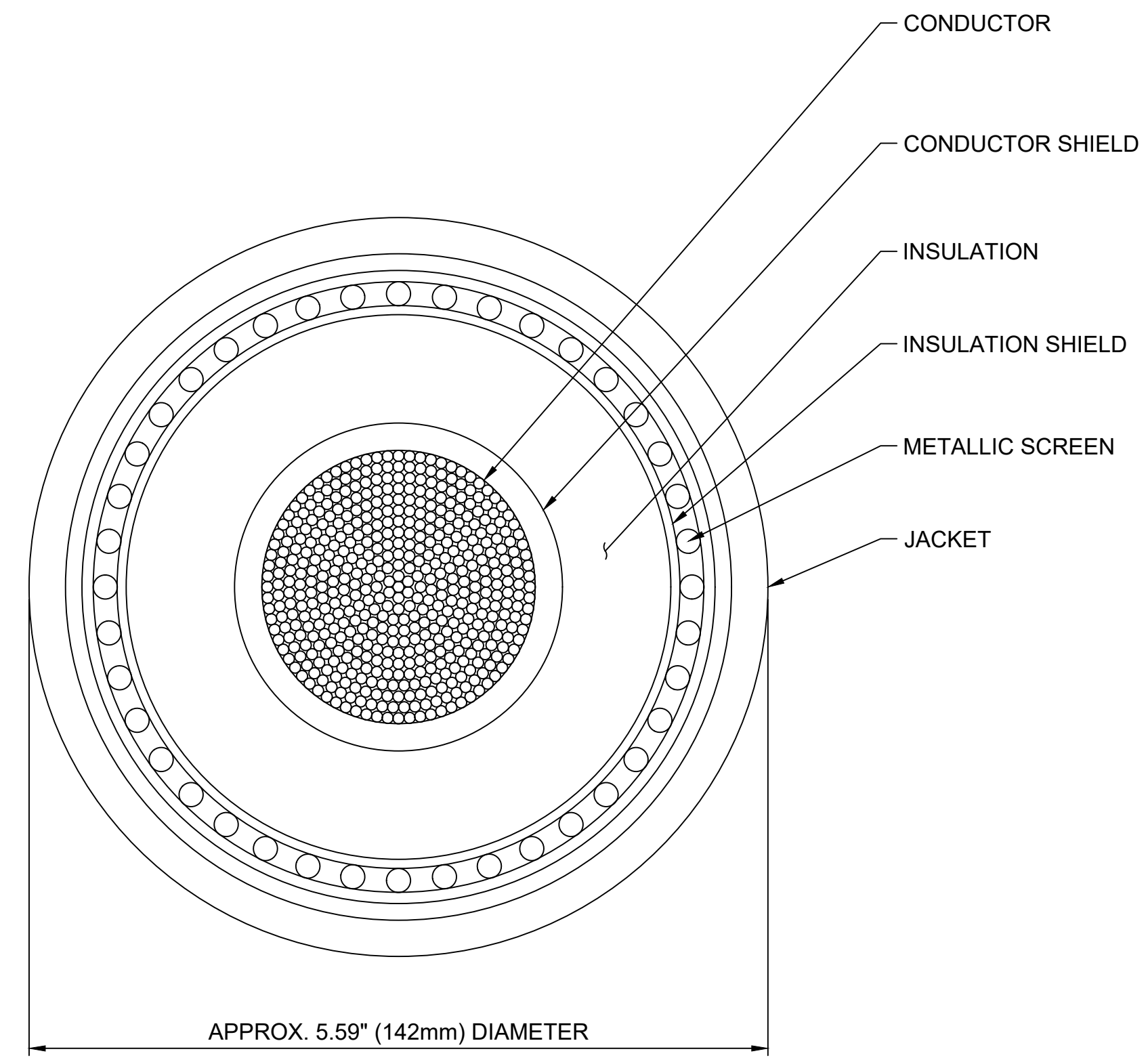
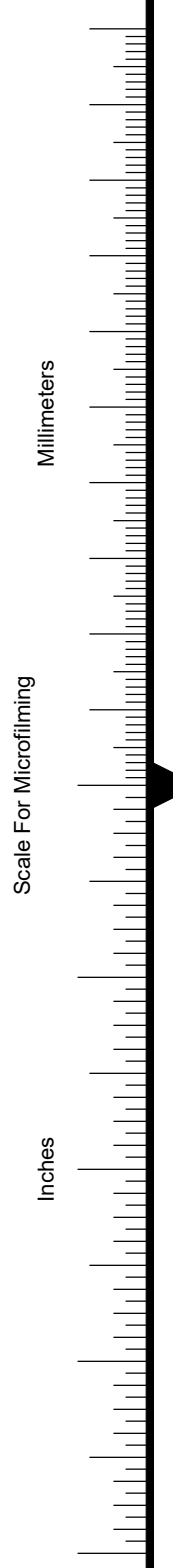
Title
OFFSHORE EXPORT CABLE BURIAL

Company

MAYFLOWER WIND ENERGY LLC
 2 Drydock Avenue
 Boston, MA 02210

Size	Proj No	Dwg No
A4	MAY-COP-2020	018

no.	date	by	ckd	description
A	12/1/2020	JR	DDL	ISSUED FOR REVIEW
B	12/9/2020	JR	DDL	ISSUED FOR REVIEW
C	12/18/2020	JR	DDL	ISSUED FOR REVIEW
D	12/22/2020	JR	DDL	ISSUED FOR REVIEW
E	12/29/2020	JR	DDL	ISSUED FOR REVIEW
F	01/13/2021	JR	DDL	ISSUED FOR REVIEW



**6,000 KCMIL 275-kV OR 345-kV SINGLE-CORE XLPE
CABLE CROSS SECTION
NOT TO SCALE**

- NOTES:
- CABLE SIZE DEPICTED IS ASSUMED BASED ON LOADING CRITERIA. FINAL CABLE SIZING TO BE DETERMINED DURING DETAILED DESIGN.
 - THE INNER LAYER DIMENSIONS WILL BE PROVIDED BY CABLE MANUFACTURER.

PRELIMINARY - NOT FOR CONSTRUCTION



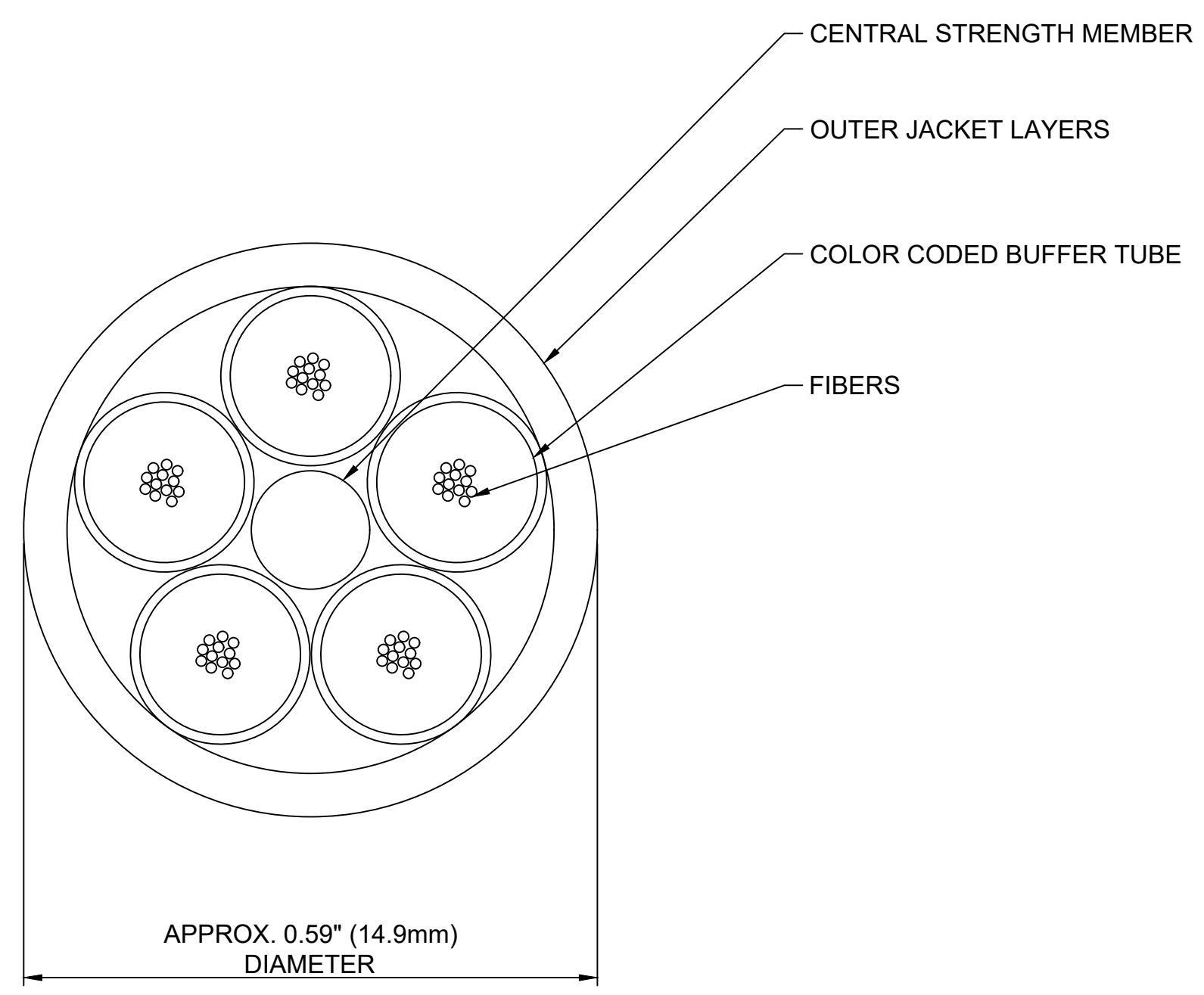
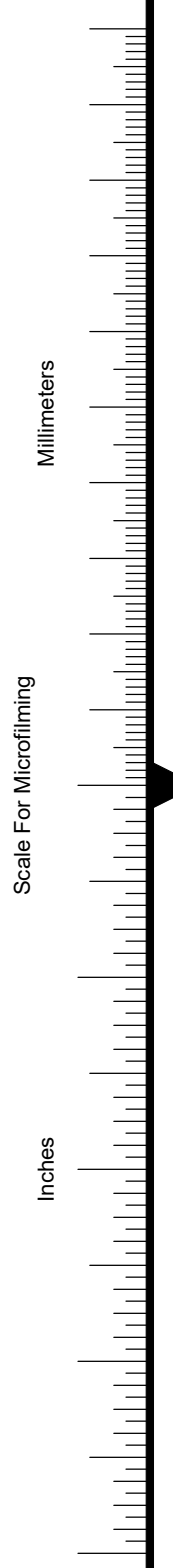
date	01-DEC-2020	detailed	J. RIFFEL
designed	D. GOGOL	checked	D. LAWTON

TYPICAL ONSHORE SINGLE-CORE CABLE CROSS SECTION

**MAYFLOWER WIND PROJECT
CONCEPTUAL DRAWINGS
BARNSTABLE COUNTY, MASSACHUSETTS**

project	121345	contract	
drawing	UG-001	rev.	F
sheet	1	of	1 sheets
file	1_Typical single-core cable cross section		

no.	date	by	ckd	description
A	12/1/2020	JR	DDL	ISSUED FOR REVIEW
B	12/9/2020	JR	DDL	ISSUED FOR REVIEW
C	12/18/2020	JR	DDL	ISSUED FOR REVIEW
D	12/22/2020	JR	DDL	ISSUED FOR REVIEW
E	12/29/2020	JR	DDL	ISSUED FOR REVIEW
F	01/13/2021	JR	DDL	ISSUED FOR REVIEW



**TYPICAL 144 FIBER OPTIC CABLE
 CROSS SECTION**
 NOT TO SCALE

NOTE:
 1. FINAL CABLE SIZING TO BE DETERMINED DURING DETAILED DESIGN.

**PRELIMINARY - NOT
 FOR CONSTRUCTION**

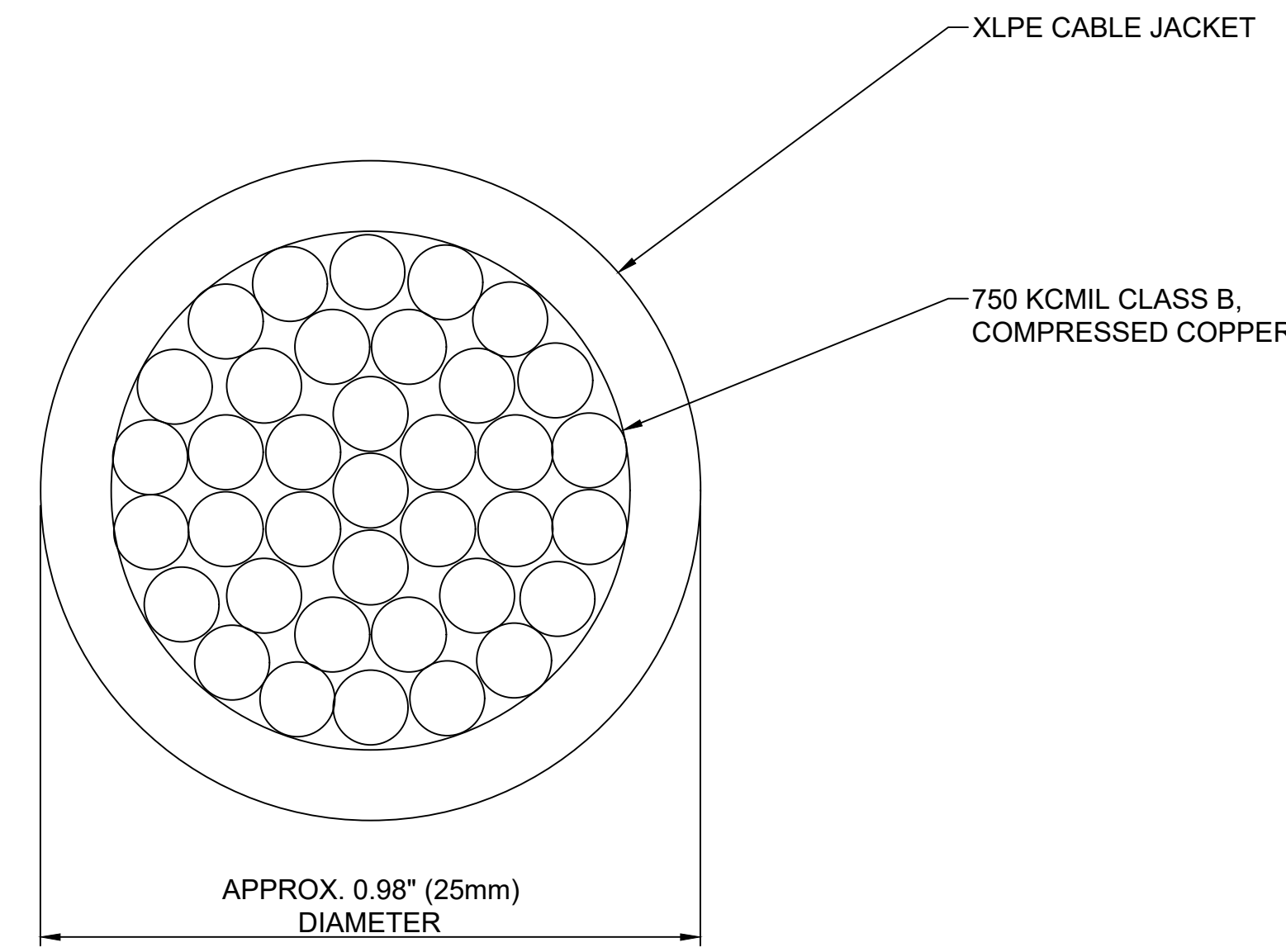
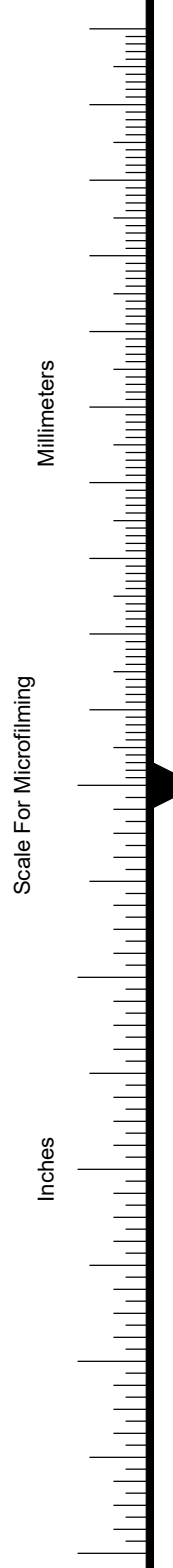


date	01-DEC-2020	detailed	J. RIFFEL
designed	D. GOGOL	checked	D. LAWTON

**TYPICAL ONSHORE
 FIBER OPTIC CABLE
 CROSS SECTION**

MAYFLOWER WIND PROJECT			
CONCEPTUAL DRAWINGS			
BARNSTABLE COUNTY, MASSACHUSETTS			
project	121345	contract	
drawing	UG-002 - F		rev.
sheet	1	of	1 sheets
file 2_Typical fiber optic cable cross section			

no.	date	by	ckd	description
A	12/1/2020	JR	DDL	ISSUED FOR REVIEW
B	12/9/2020	JR	DDL	ISSUED FOR REVIEW
C	12/18/2020	JR	DDL	ISSUED FOR REVIEW
D	12/22/2020	JR	DDL	ISSUED FOR REVIEW
E	12/29/2020	JR	DDL	ISSUED FOR REVIEW
F	01/13/2021	JR	DDL	ISSUED FOR REVIEW



750 KCMIL EARTH CONTINUITY CABLE CROSS SECTION
NOT TO SCALE

NOTE:
1. CABLE SIZE DEPICTED IS ASSUMED BASED ON FAULT CURRENT CRITERIA. FINAL CABLE SIZING TO BE DETERMINED DURING DETAILED DESIGN.

PRELIMINARY - NOT FOR CONSTRUCTION



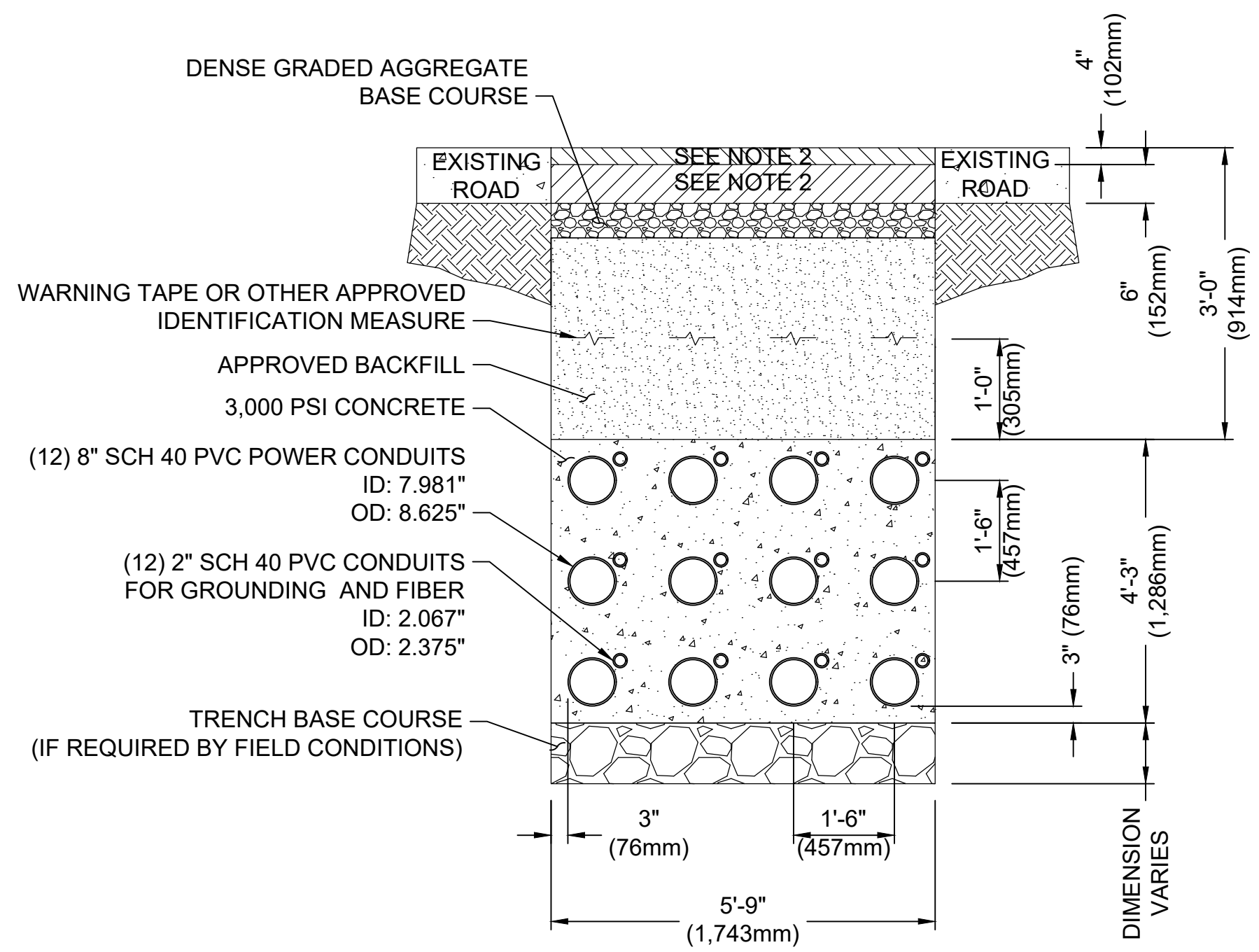
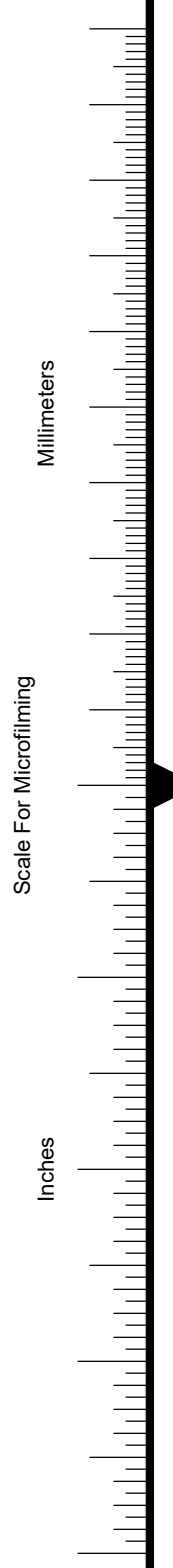
date	01-DEC-2020	detailed	J. RIFFEL
designed	D. GOGOL	checked	D. LAWTON

TYPICAL ONSHORE EARTH CONTINUITY CABLE CROSS SECTION

MAYFLOWER WIND PROJECT
CONCEPTUAL DRAWINGS
BARNSTABLE COUNTY, MASSACHUSETTS

project	121345	contract	
drawing	UG-003	rev.	F

sheet	1	of	1	sheets
file 3_Typical earth continuity cable cross section				



INDICATIVE 3X4 CONCRETE-ENCASED DUCT BANK ARRANGEMENT IN ROADWAY
 NOT TO SCALE

- NOTES:
1. ALL DIMENSIONS ARE INDICATIVE AND ARE SUBJECT TO CHANGE.
 2. HOT MIX ASPHALT (HMA) OR OTHER APPROVED MATERIAL.
 3. TYPE OF CONDUIT MAY VARY BASED ON FIELD CONDITIONS.

no.	date	by	ckd	description
A	12/1/2020	JR	DDL	ISSUED FOR REVIEW
B	12/9/2020	JR	DDL	ISSUED FOR REVIEW
C	12/18/2020	JR	DDL	ISSUED FOR REVIEW
D	12/22/2020	JR	DDL	ISSUED FOR REVIEW
E	12/29/2020	JR	DDL	ISSUED FOR REVIEW
F	01/13/2021	JR	DDL	ISSUED FOR REVIEW

PRELIMINARY - NOT FOR CONSTRUCTION



date	01-DEC-2020	detailed	J. RIFFEL
designed	D. GOGOL	checked	D. LAWTON

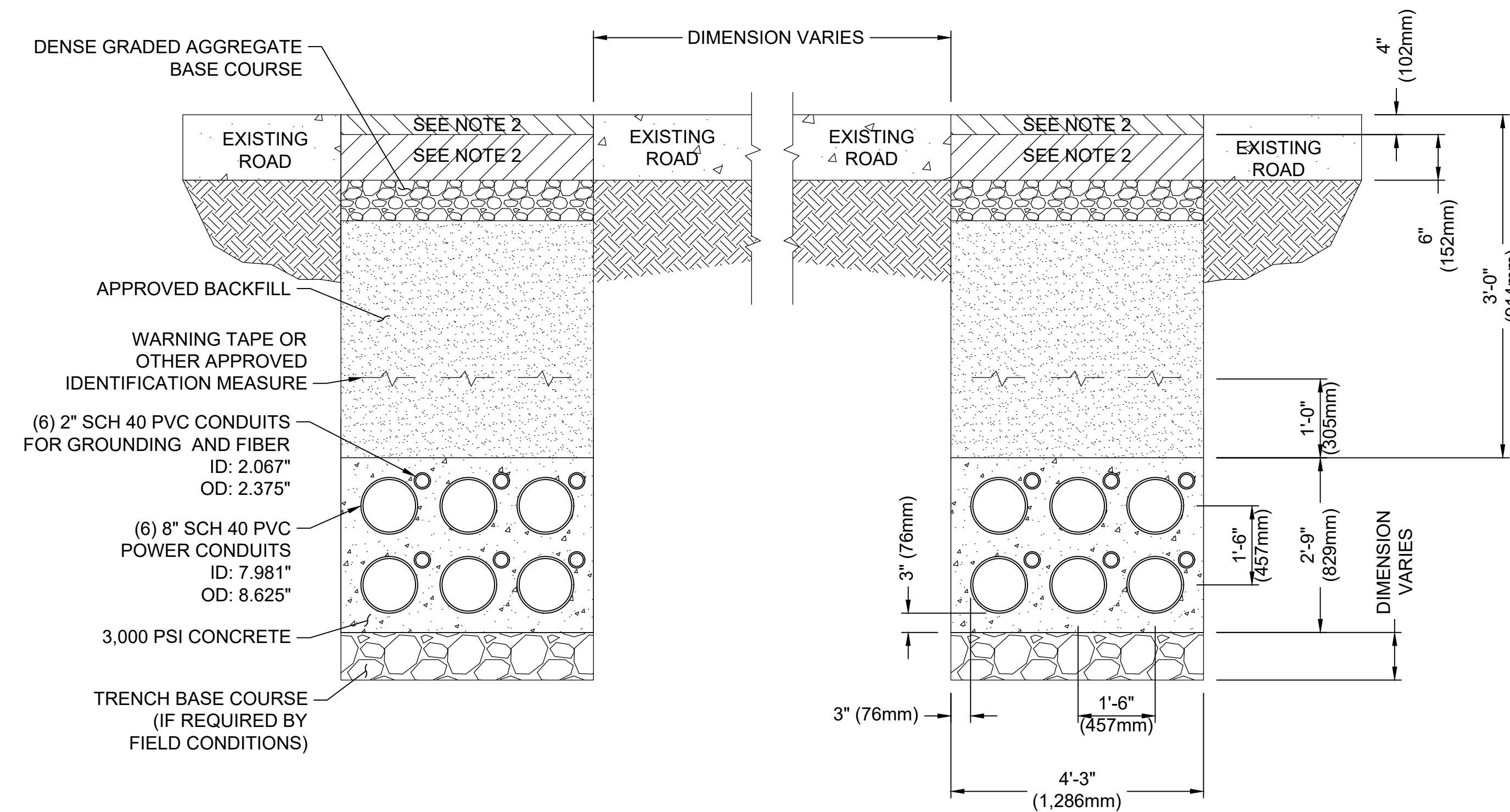
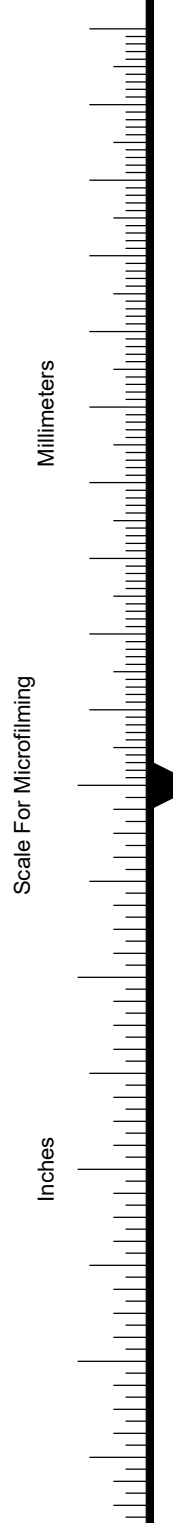
INDICATIVE 3X4 CONCRETE-ENCASED DUCT BANK ARRANGEMENT IN ROADWAY

MAYFLOWER WIND PROJECT
 CONCEPTUAL DRAWINGS
 BARNSTABLE COUNTY, MASSACHUSETTS

project	121345	contract	
drawing	UG-004	rev.	F
sheet	1	of	6 sheets
file 4.1-4.3_Duct Bank Arrangement 1 & indicative road grading			

- NOTES:
1. ALL DIMENSIONS ARE INDICATIVE AND ARE SUBJECT TO CHANGE.
 2. HOT MIX ASPHALT (HMA) OR OTHER APPROVED MATERIAL.
 3. TYPE OF CONDUIT MAY VARY BASED ON FIELD CONDITIONS.

no.	date	by	ckd	description
A	12/1/2020	JR	DDL	ISSUED FOR REVIEW
B	12/9/2020	JR	DDL	ISSUED FOR REVIEW
C	12/18/2020	JR	DDL	ISSUED FOR REVIEW
D	12/22/2020	JR	DDL	ISSUED FOR REVIEW
E	12/29/2020	JR	DDL	ISSUED FOR REVIEW
F	01/13/2021	JR	DDL	ISSUED FOR REVIEW



HORIZONTAL SPLIT 2X3 INDICATIVE CONCRETE ENCASED DUCT BANK ARRANGEMENT - BOTH SIDES OF ROADWAY
 NOT TO SCALE

PRELIMINARY - NOT FOR CONSTRUCTION



date	01-DEC-2020	detailed	J. RIFFEL
designed	D. GOGOL	checked	D. LAWTON

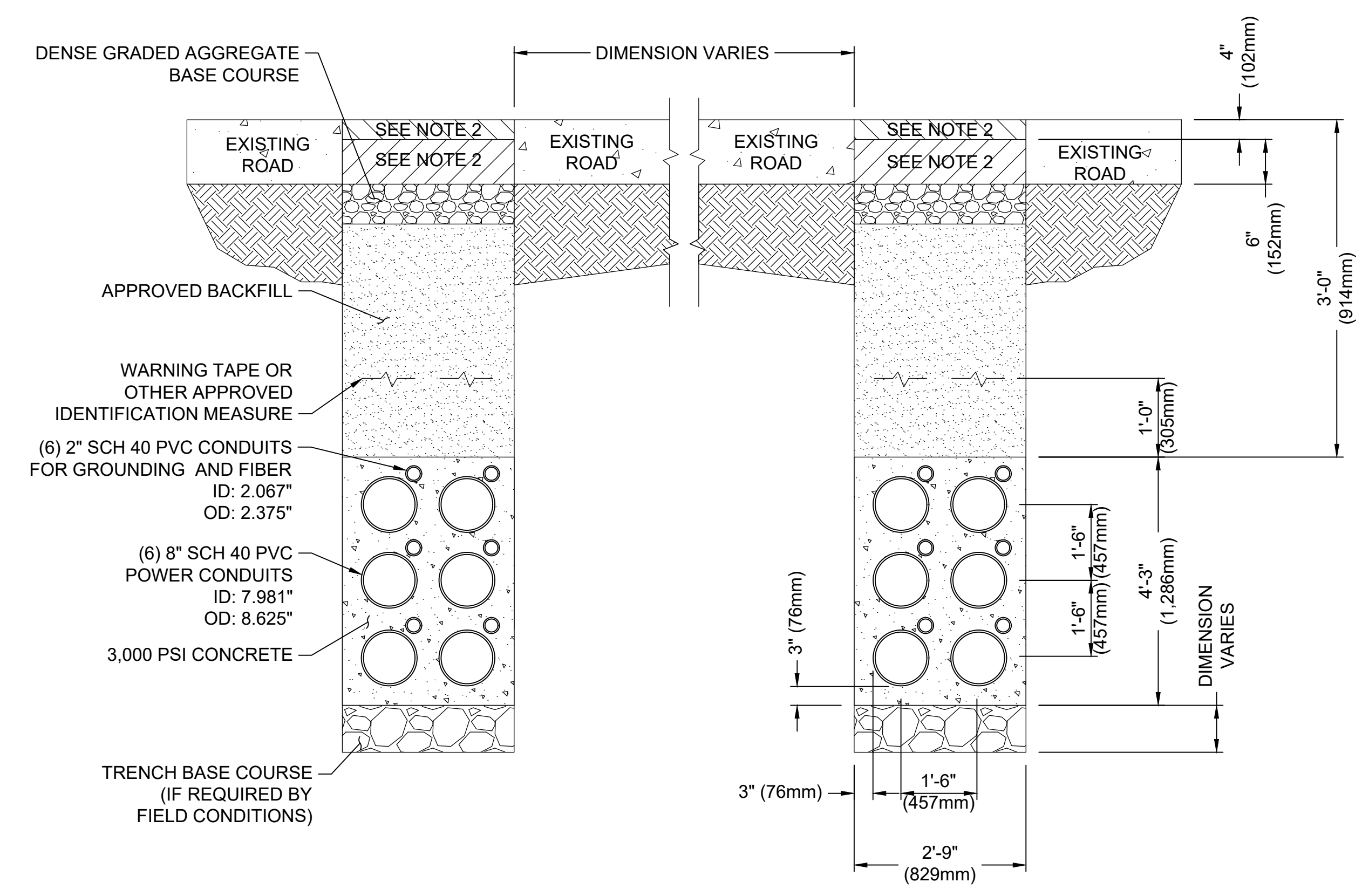
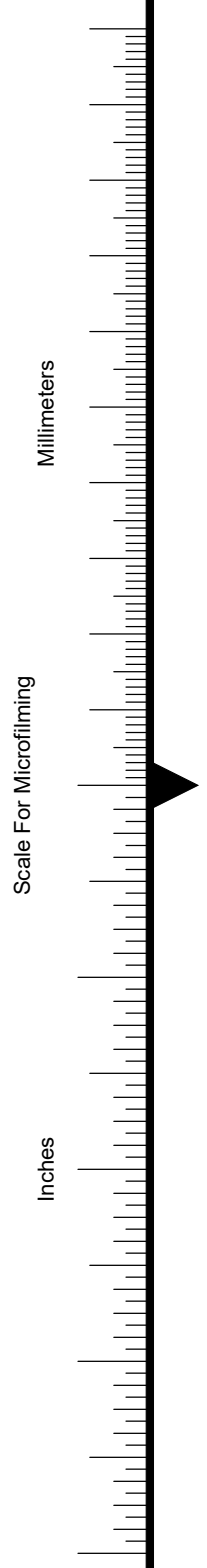
HORIZONTAL SPLIT 2X3 INDICATIVE CONCRETE ENCASED DUCT BANK ARRANGEMENT - BOTH SIDES OF ROADWAY

MAYFLOWER WIND PROJECT
 CONCEPTUAL DRAWINGS
 BARNSTABLE COUNTY, MASSACHUSETTS

project	121345	contract	
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drawing **UG-004** - rev. **F**

sheet 2 of 6 sheets
 file 4.1-4.3_Duct Bank Arrangement 1 & indicative road grading



**VERTICAL SPLIT 3X2 INDICATIVE CONCRETE ENCASED
DUCT BANK ARRANGEMENT - BOTH SIDES OF ROADWAY**
NOT TO SCALE

- NOTES:
1. ALL DIMENSIONS ARE INDICATIVE AND ARE SUBJECT TO CHANGE.
 2. HOT MIX ASPHALT (HMA) OR OTHER APPROVED MATERIAL.
 3. TYPE OF CONDUIT MAY VARY BASED ON FIELD CONDITIONS.

no.	date	by	ckd	description
A	12/1/2020	JR	DDL	ISSUED FOR REVIEW
B	12/9/2020	JR	DDL	ISSUED FOR REVIEW
C	12/18/2020	JR	DDL	ISSUED FOR REVIEW
D	12/22/2020	JR	DDL	ISSUED FOR REVIEW
E	12/29/2020	JR	DDL	ISSUED FOR REVIEW
F	01/13/2021	JR	DDL	ISSUED FOR REVIEW

PRELIMINARY - NOT FOR CONSTRUCTION



date	01-DEC-2020	detailed	J. RIFFEL
designed	D. GOGOL	checked	D. LAWTON

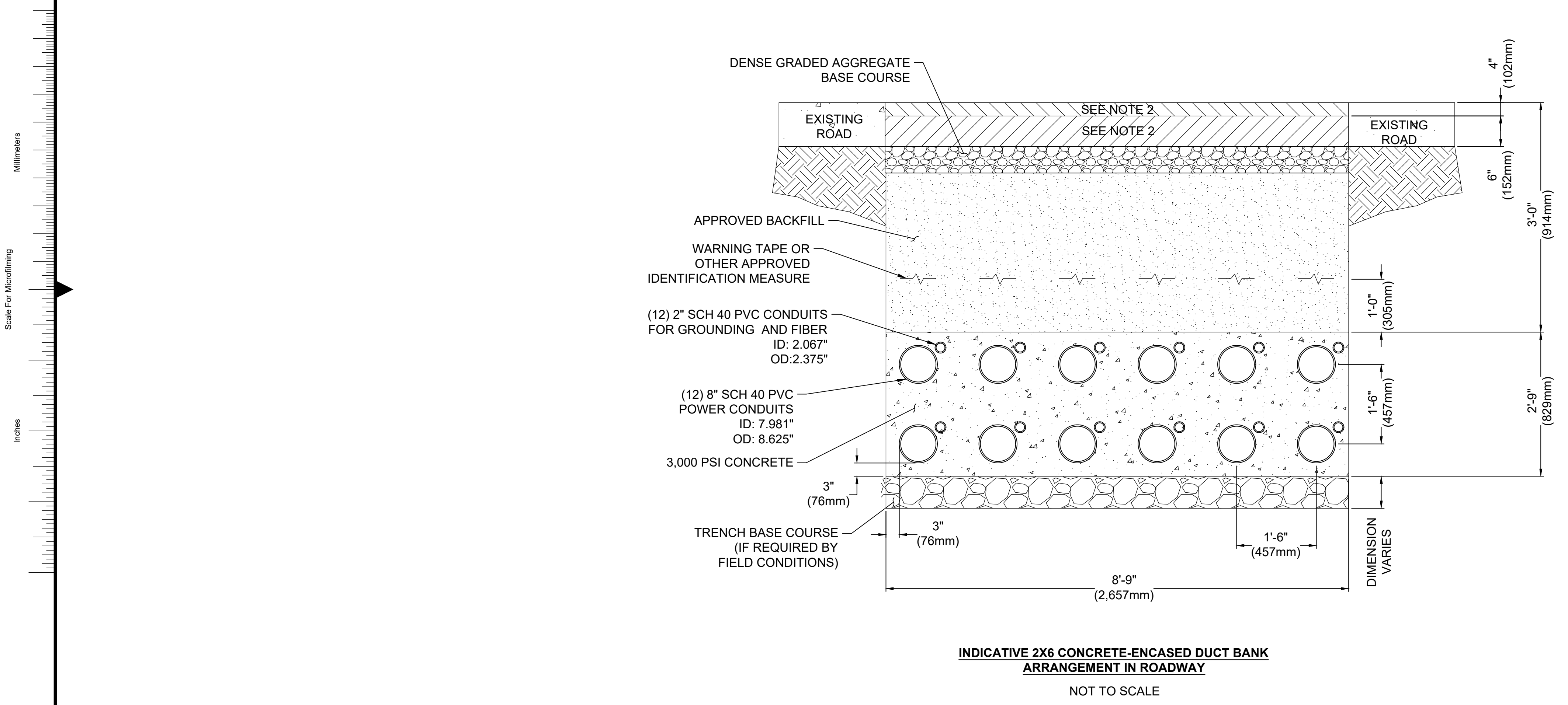
**VERTICAL SPLIT 3X2
INDICATIVE CONCRETE
ENCASED DUCT BANK
ARRANGEMENT - BOTH
SIDES OF ROADWAY**

MAYFLOWER WIND PROJECT
CONCEPTUAL DRAWINGS
BARNSTABLE COUNTY, MASSACHUSETTS

project	121345	contract	
drawing	UG-004	rev.	F
sheet	3	of	6 sheets
file 4.1-4.3_Duct Bank Arrangement 1 & indicative road grading			

- NOTES:
1. ALL DIMENSIONS ARE INDICATIVE AND ARE SUBJECT TO CHANGE.
 2. HOT MIX ASPHALT (HMA) OR OTHER APPROVED MATERIAL.
 3. TYPE OF CONDUIT MAY VARY BASED ON FIELD CONDITIONS.

no.	date	by	ckd	description
A	12/1/2020	JR	DDL	ISSUED FOR REVIEW
B	12/9/2020	JR	DDL	ISSUED FOR REVIEW
C	12/18/2020	JR	DDL	ISSUED FOR REVIEW
D	12/22/2020	JR	DDL	ISSUED FOR REVIEW
E	12/29/2020	JR	DDL	ISSUED FOR REVIEW
F	01/13/2021	JR	DDL	ISSUED FOR REVIEW



PRELIMINARY - NOT FOR CONSTRUCTION



date	01-DEC-2020	detailed	J. RIFFEL
designed	D. GOGOL	checked	D. LAWTON

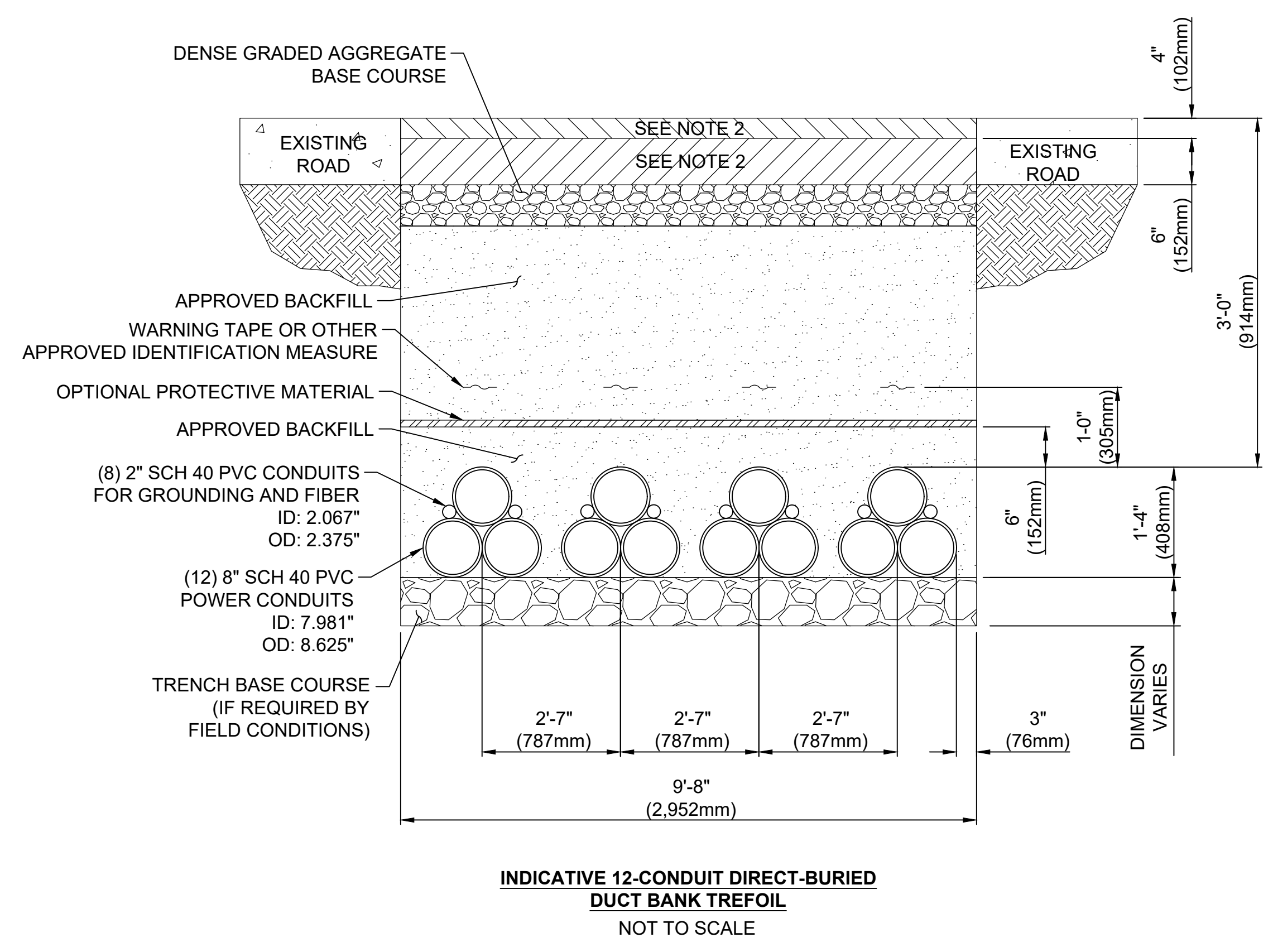
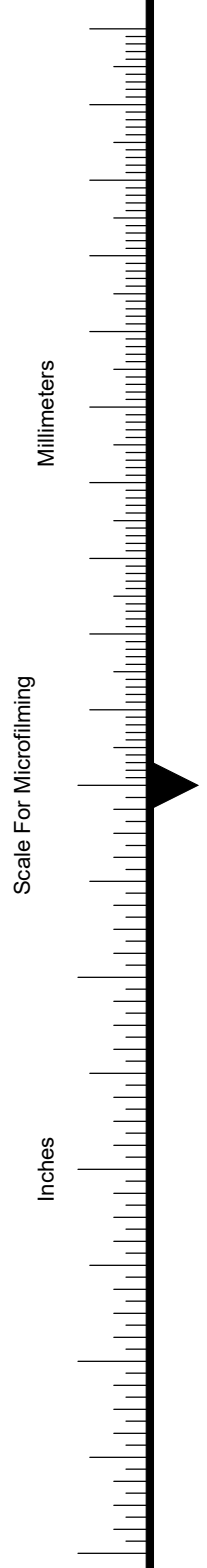
INDICATIVE 2X6 CONCRETE-ENCASED DUCT BANK ARRANGEMENT IN ROADWAY

MAYFLOWER WIND PROJECT CONCEPTUAL DRAWINGS BARNSTABLE COUNTY, MASSACHUSETTS			
project	121345	contract	
drawing	UG-004 - F		rev.
sheet	4	of	6 sheets
file	4_4_Duct Bank Arrangement 2 & indicative road grading		

NOTES:

1. ALL DIMENSIONS ARE INDICATIVE AND ARE SUBJECT TO CHANGE.
2. HOT MIX ASPHALT (HMA) OR OTHER APPROVED MATERIAL.
3. TYPE OF CONDUIT MAY VARY BASED ON FIELD CONDITIONS.

no.	date	by	ckd	description
A	12/1/2020	JR	DDL	ISSUED FOR REVIEW
B	12/9/2020	JR	DDL	ISSUED FOR REVIEW
C	12/18/2020	JR	DDL	ISSUED FOR REVIEW
D	12/22/2020	JR	DDL	ISSUED FOR REVIEW
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F	01/13/2021	JR	DDL	ISSUED FOR REVIEW



PRELIMINARY - NOT FOR CONSTRUCTION



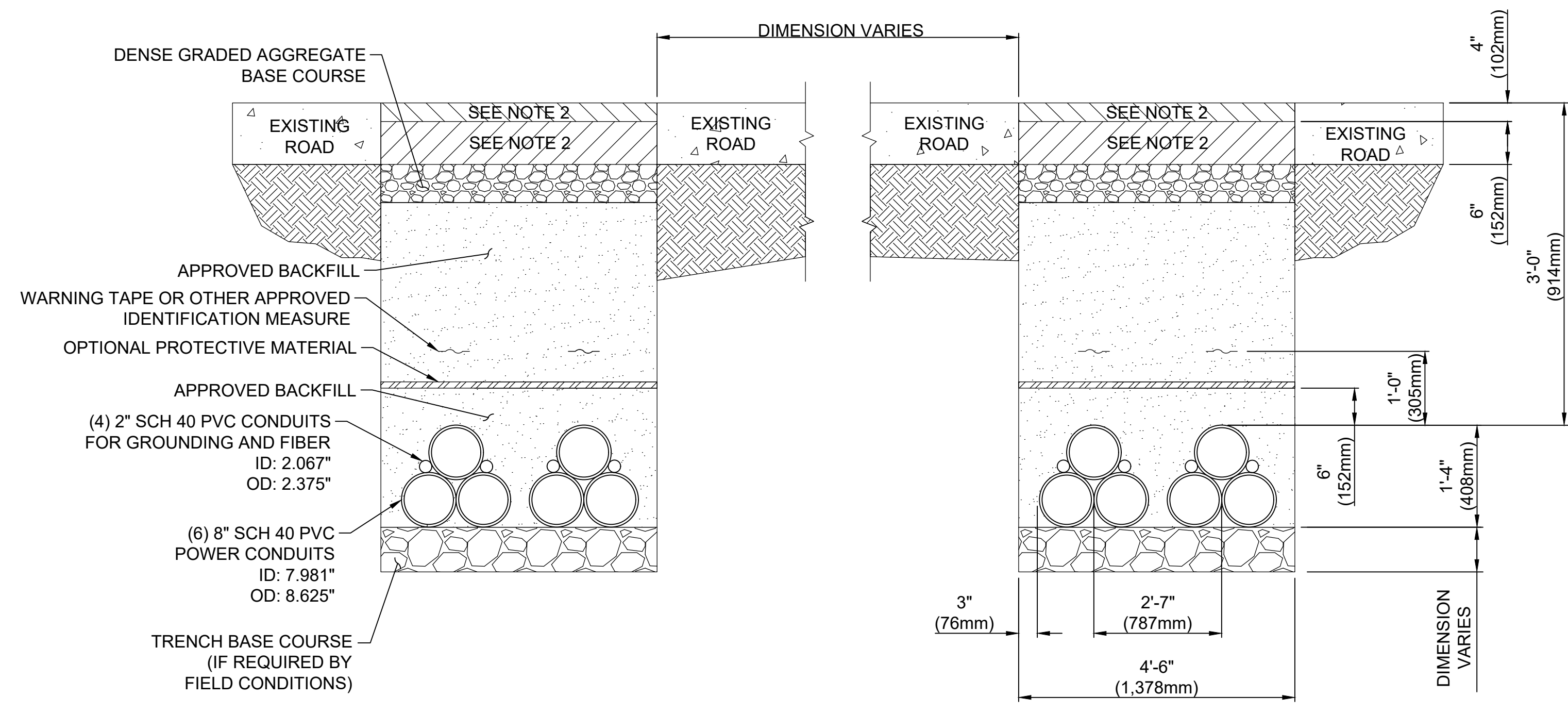
date	01-DEC-2020	detailed	J. RIFFEL
designed	D. GOGOL	checked	D. LAWTON

INDICATIVE 12-CONDUIT DIRECT-BURIED DUCT BANK TREFOIL

MAYFLOWER WIND PROJECT
CONCEPTUAL DRAWINGS
BARNSTABLE COUNTY, MASSACHUSETTS

project	121345	contract	
drawing	UG-004	rev.	F
sheet	5	of	6 sheets
file 4.5-4.6_Trefoil Alternative			

Scale For Microfitting
 Millimeters
 Scale For Microfitting
 Inches



INDICATIVE SPLIT 6-CONDUIT DIRECT-BURIED
 DUCT BANK TREFOIL
 NOT TO SCALE

- NOTES:
1. ALL DIMENSIONS ARE INDICATIVE AND ARE SUBJECT TO CHANGE.
 2. HOT MIX ASPHALT (HMA) OR OTHER APPROVED MATERIAL.
 3. TYPE OF CONDUIT MAY VARY BASED ON FIELD CONDITIONS.

no.	date	by	ckd	description
A	12/1/2020	JR	DDL	ISSUED FOR REVIEW
B	12/9/2020	JR	DDL	ISSUED FOR REVIEW
C	12/18/2020	JR	DDL	ISSUED FOR REVIEW
D	12/22/2020	JR	DDL	ISSUED FOR REVIEW
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F	01/13/2021	JR	DDL	ISSUED FOR REVIEW

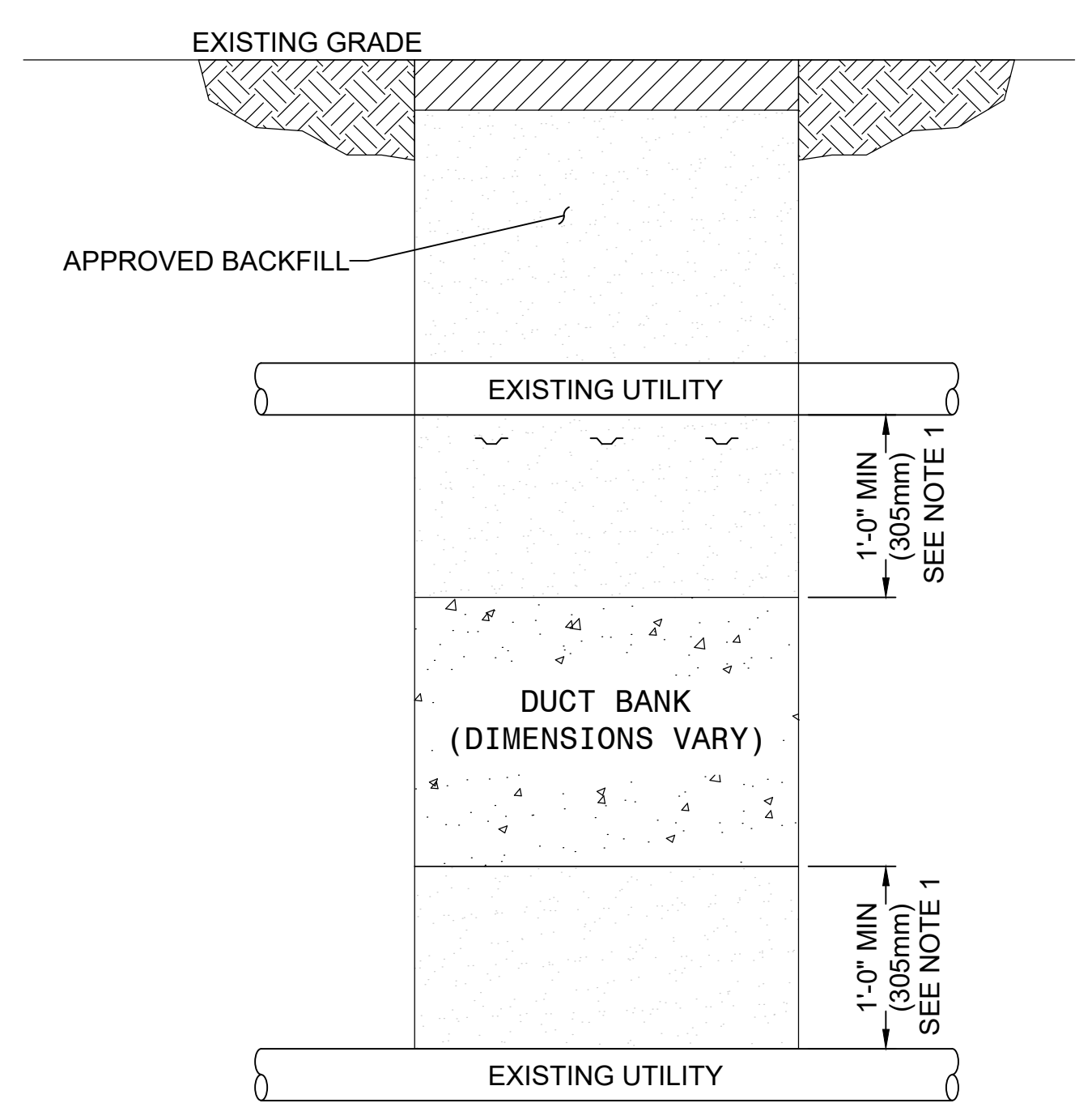
PRELIMINARY - NOT FOR CONSTRUCTION



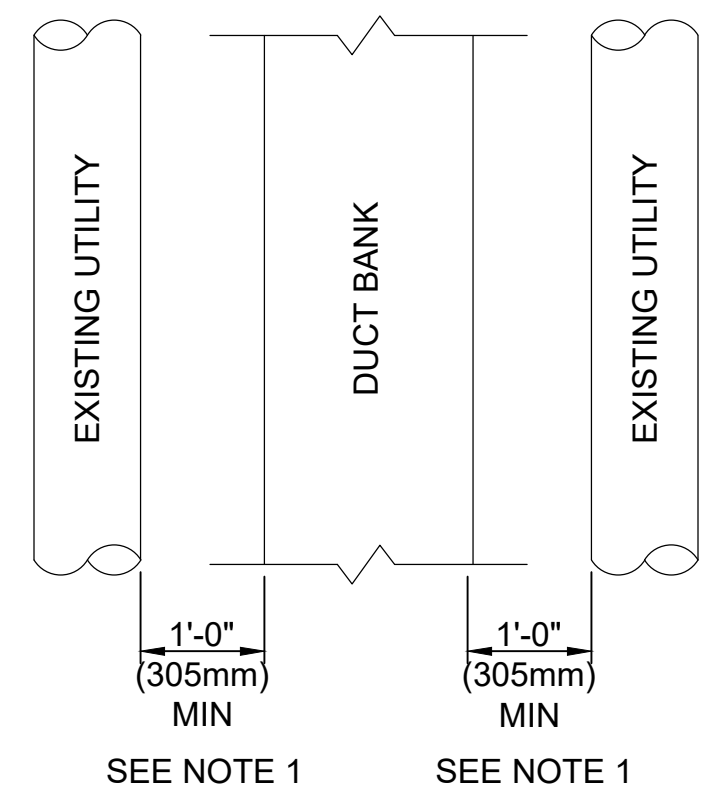
date	01-DEC-2020	detailed	J. RIFFEL
designed	D. GOGOL	checked	D. LAWTON

INDICATIVE SPLIT 6-CONDUIT DIRECT-BURIED DUCT BANK TREFOIL

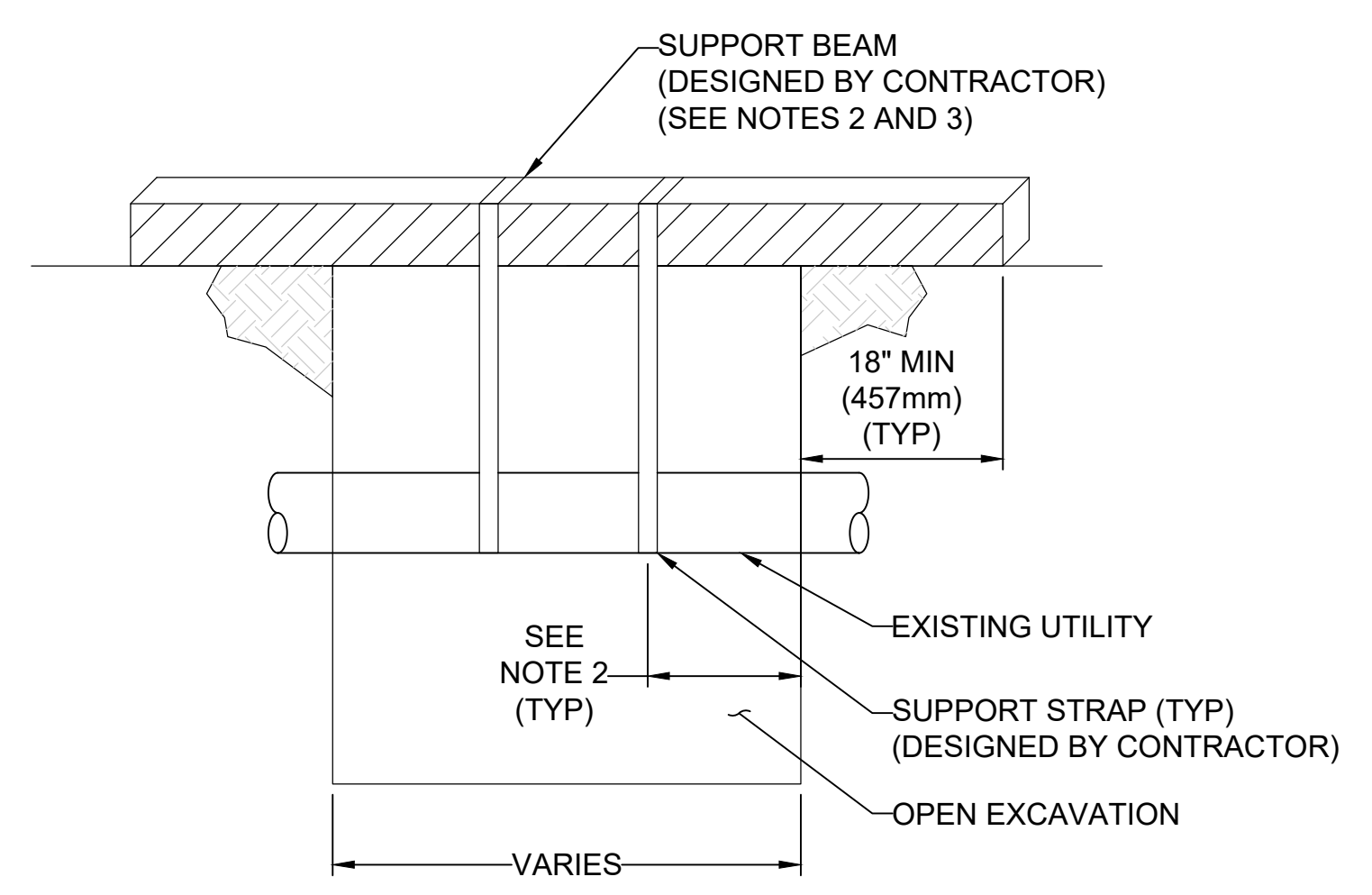
MAYFLOWER WIND PROJECT CONCEPTUAL DRAWINGS BARNSTABLE COUNTY, MASSACHUSETTS			
project	121345	contract	
drawing	UG-004	rev.	F
sheet	6	of	6 sheets
file 4.5-4.6_Trefoil Alternative			



TYPICAL DUCT BANK WITH VERTICAL UTILITY CLEARANCE
NOT TO SCALE



TYPICAL DUCT BANK PLAN VIEW WITH HORIZONTAL UTILITY CLEARANCE
NOT TO SCALE



TYPICAL UTILITY SUPPORT ACROSS OPEN EXCAVATION
NOT TO SCALE

- NOTES:
- SOME UTILITIES MAY REQUIRE GREATER SEPARATION.
 - 2'-0" (0.61m) MAX. SPAN. OR DIRECTED BY THE UTILITY WHICHEVER IS LESS.
 - CONTRACTOR SHALL SUBMIT METHOD OF SUPPORT TO RESPECTIVE UTILITY OWNERS FOR APPROVAL PRIOR TO CONSTRUCTION.
 - UTILITIES INCLUDE TELECOM, GAS LINES, WATER MAINS, AND SEWERS.
 - UTILITY RELOCATIONS TO ACCOMMODATE DUCT BANK ALIGNMENT COULD BE POSSIBLE. CONTRACTOR TO COORDINATE RELOCATION EFFORTS WITH THE UTILITY OWNER.

no.	date	by	ckd	description
A	12/1/2020	JR	DDL	ISSUED FOR REVIEW
B	12/9/2020	JR	DDL	ISSUED FOR REVIEW
C	12/18/2020	JR	DDL	ISSUED FOR REVIEW
D	12/22/2020	JR	DDL	ISSUED FOR REVIEW
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F	01/13/2021	JR	DDL	ISSUED FOR REVIEW

PRELIMINARY - NOT FOR CONSTRUCTION

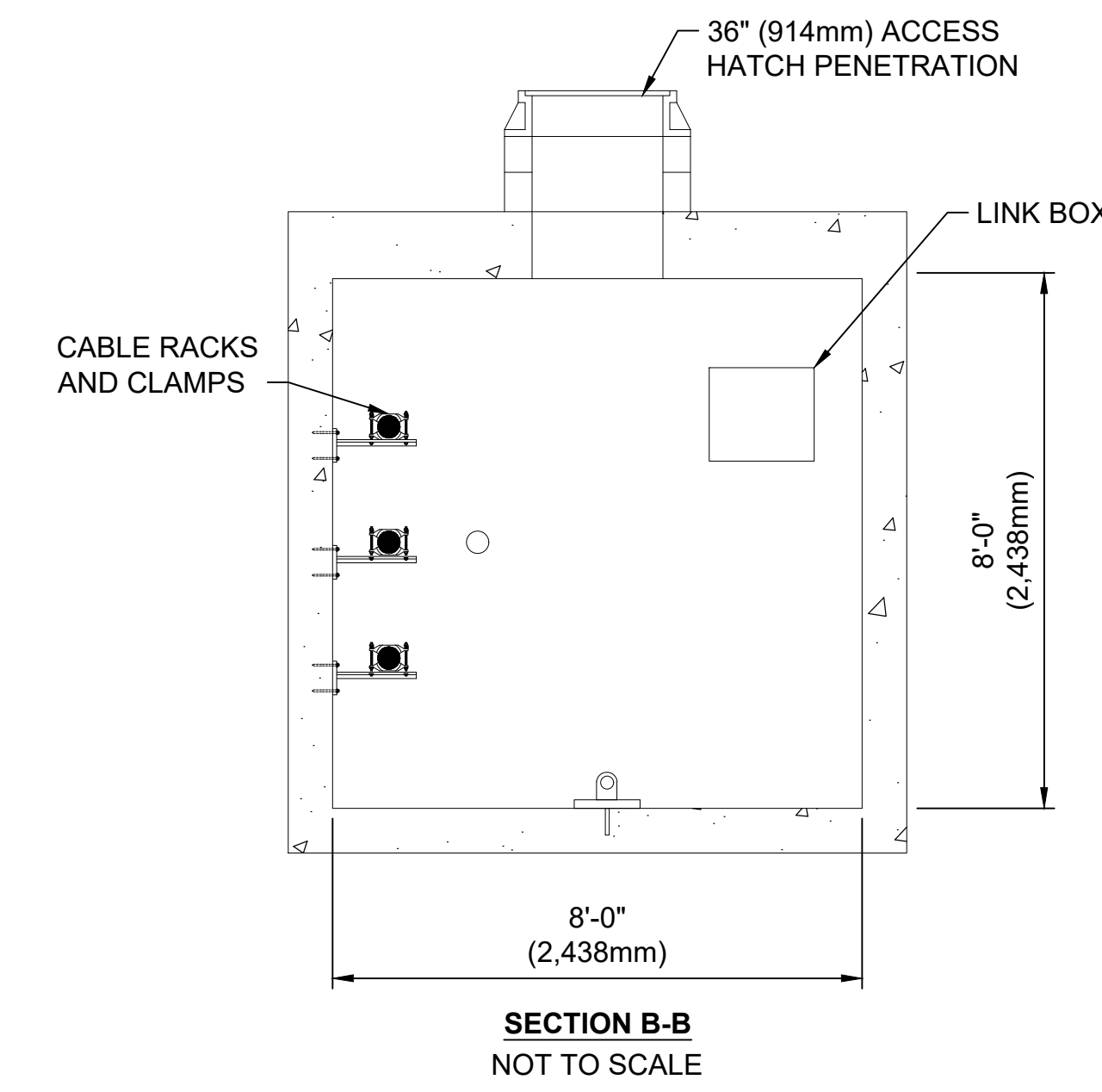
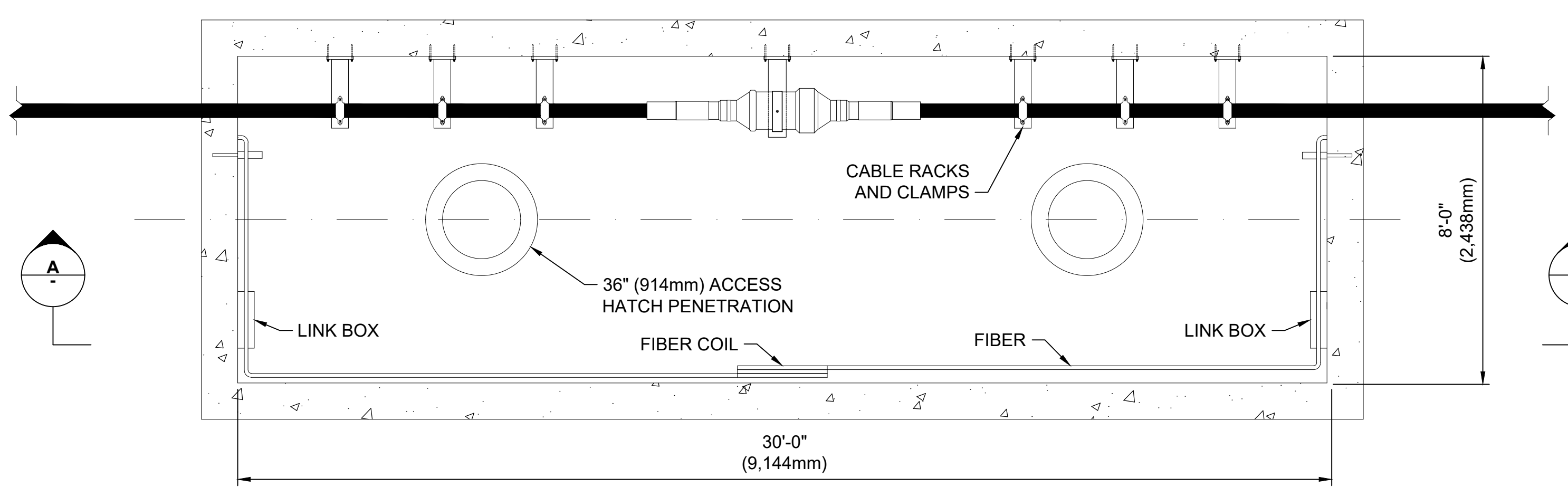
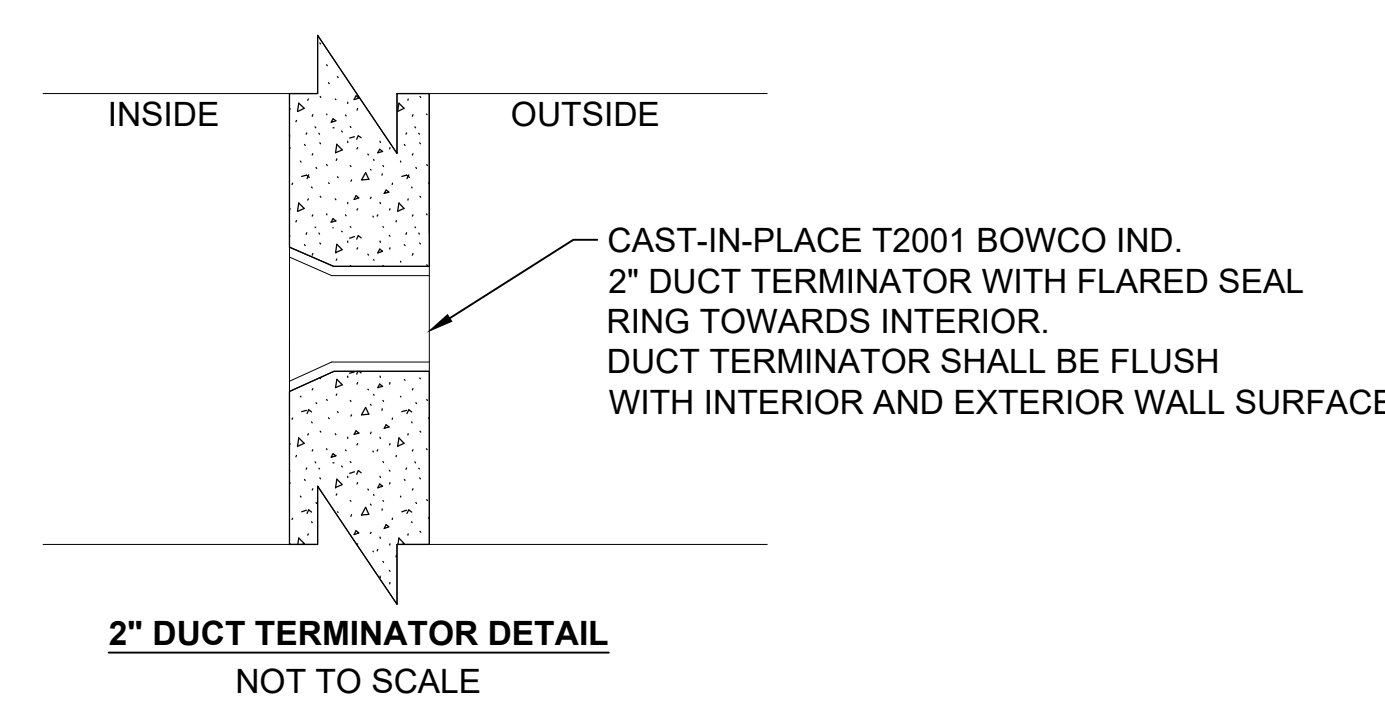
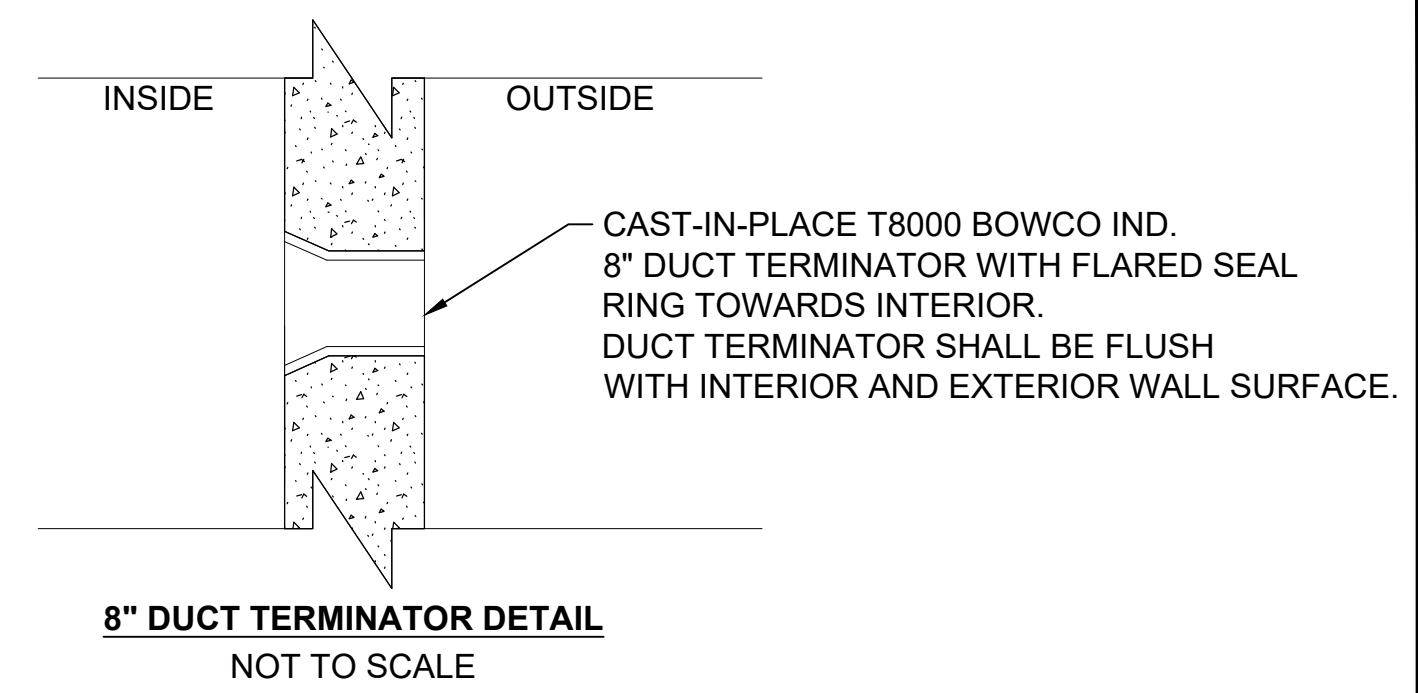
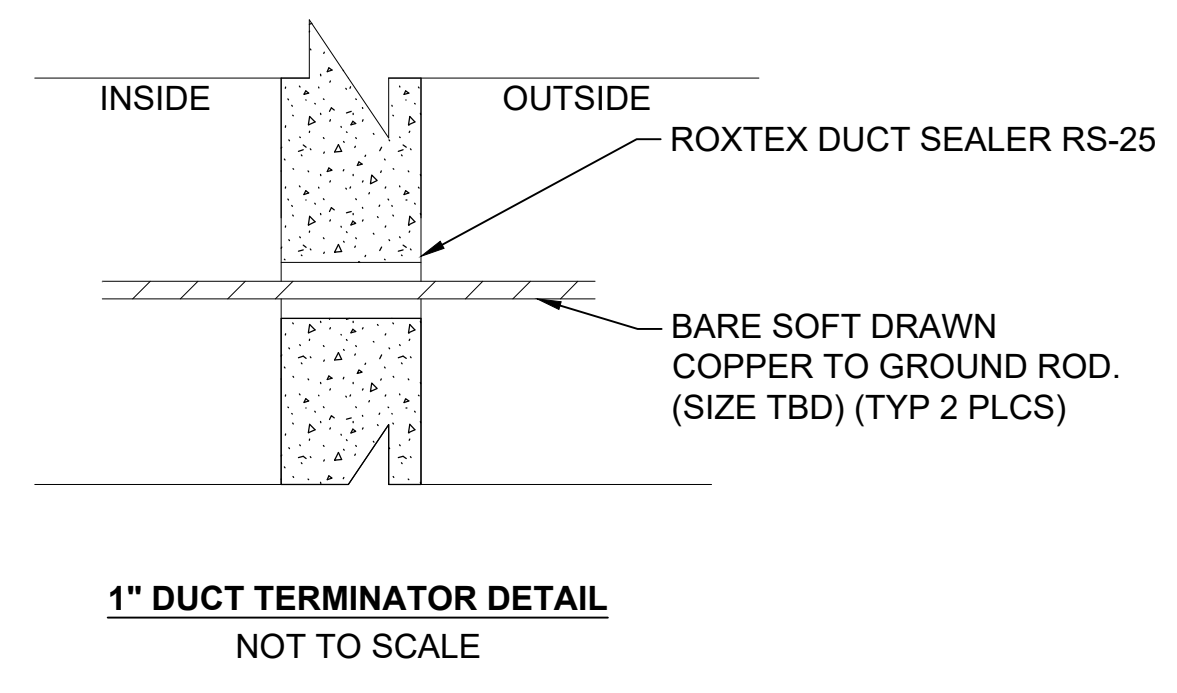
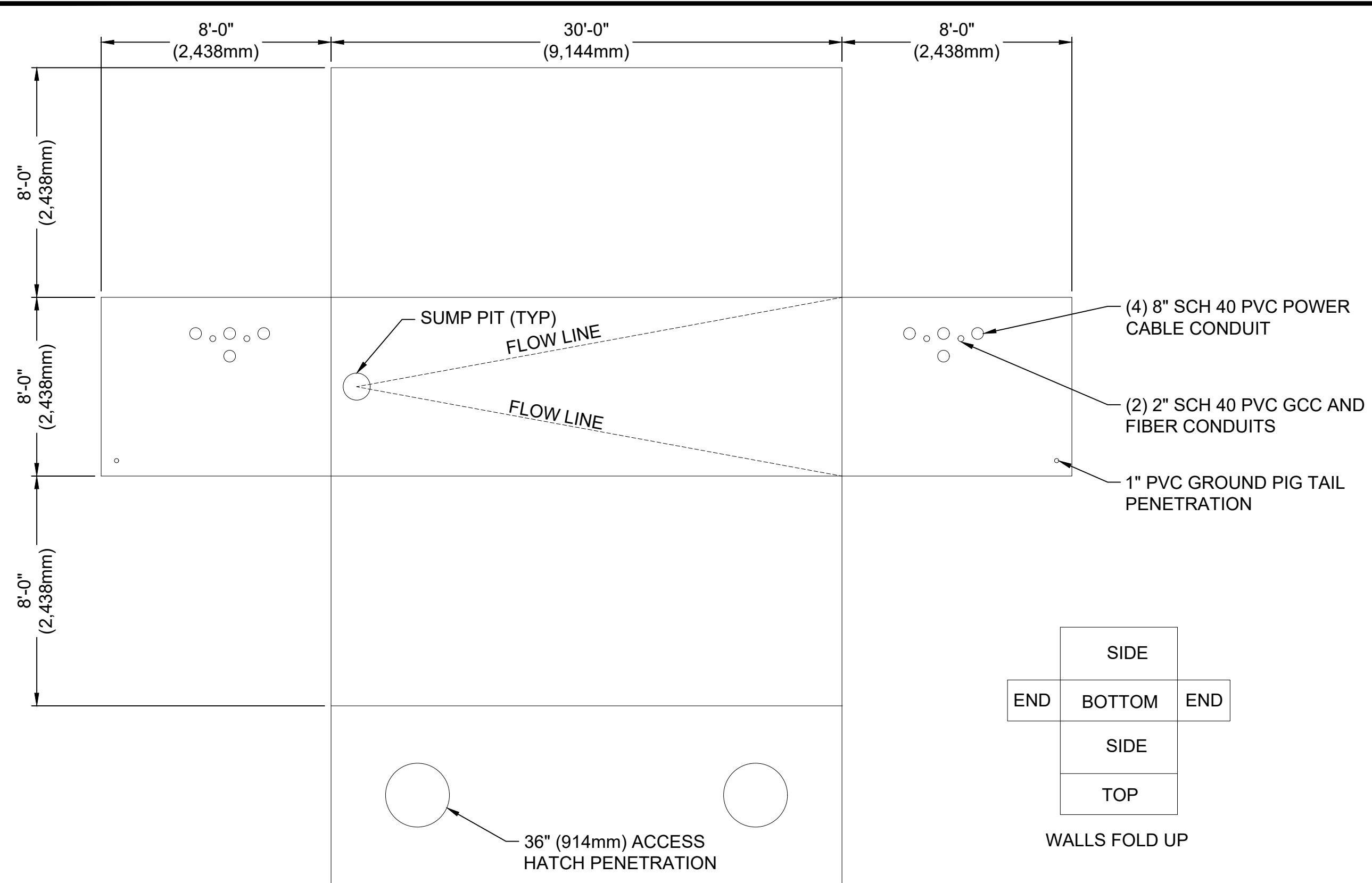


date	01-DEC-2020	detailed	J. RIFFEL
designed	D. GOGOL	checked	D. LAWTON

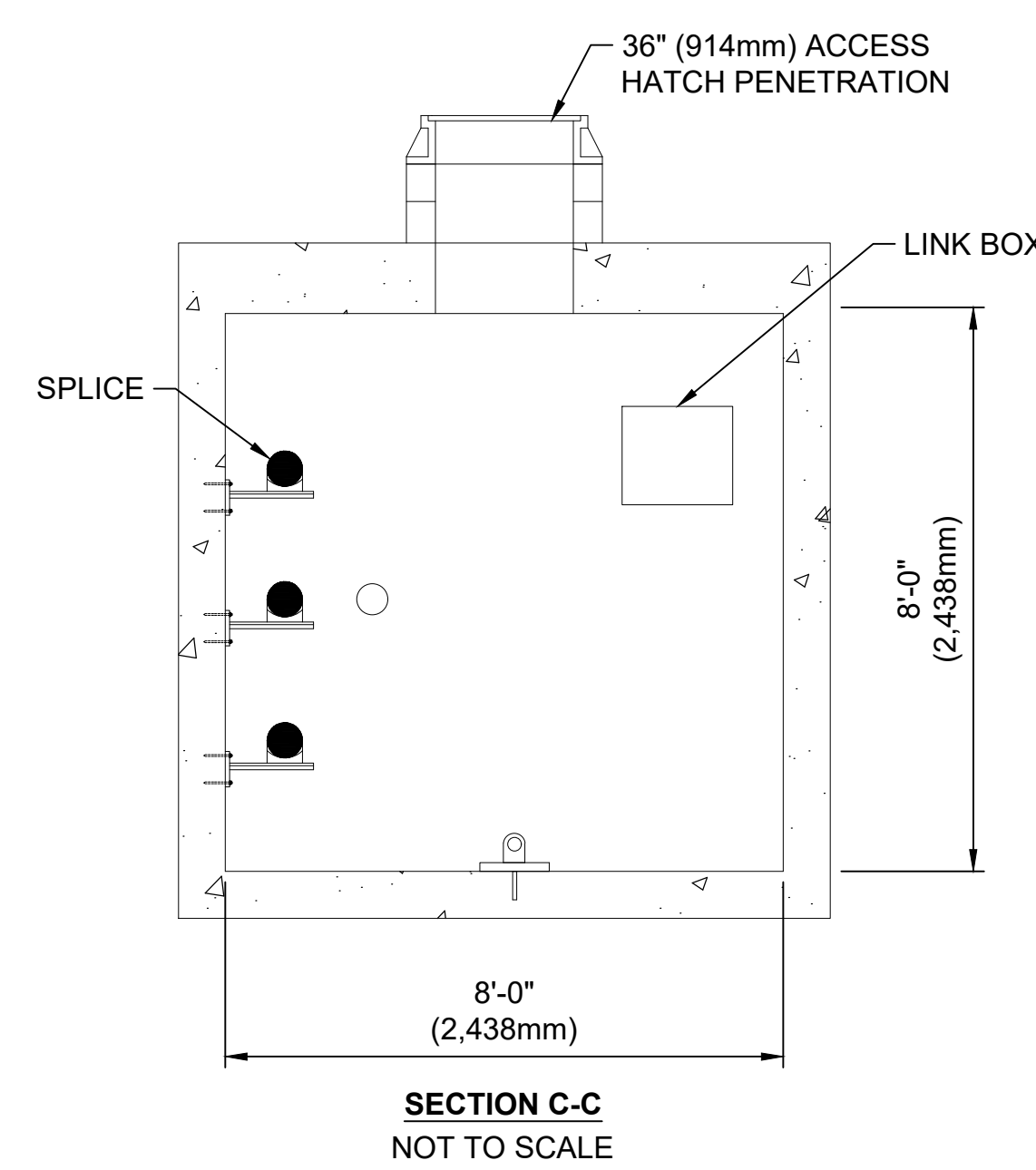
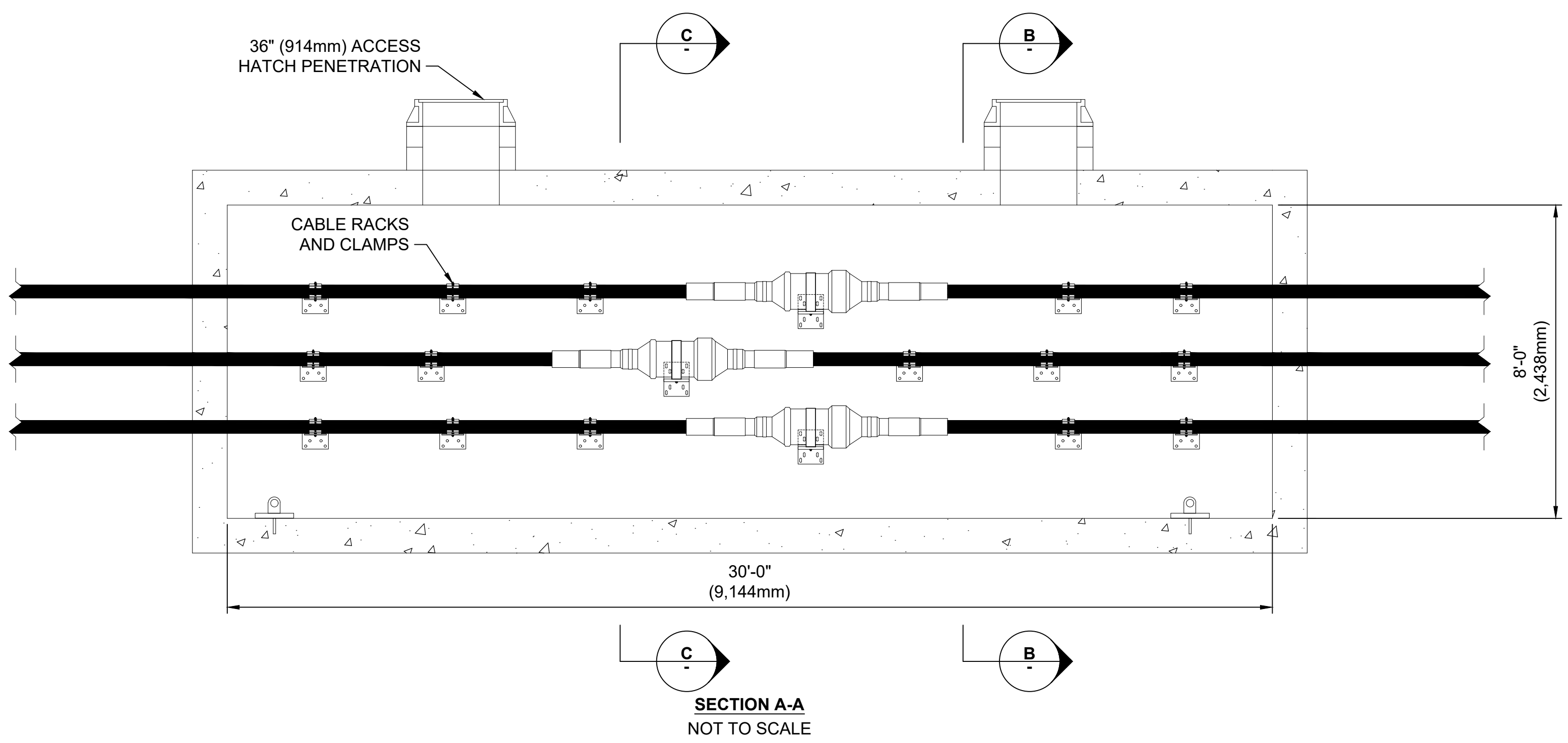
INDICATIVE UTILITY INTERFACES

MAYFLOWER WIND PROJECT			
CONCEPTUAL DRAWINGS			
BARNSTABLE COUNTY, MASSACHUSETTS			
project	121345	contract	
drawing	UG-005	rev.	F
sheet	1	of	1 sheets
file 5_Crossing Details			

no.	date	by	ckd	description
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B	12/9/2020	JR	DDL	ISSUED FOR REVIEW
C	12/18/2020	JR	DDL	ISSUED FOR REVIEW
D	12/22/2020	JR	DDL	ISSUED FOR REVIEW
E	12/29/2020	JR	DDL	ISSUED FOR REVIEW
F	01/13/2021	JR	DDL	ISSUED FOR REVIEW



- NOTES:
1. MINIMUM DEPTH OF COVER, AS MEASURED AT ANY POINT OF THE BURIED MANHOLES, SHALL TYPICALLY BE DESIGNED TO A MINIMUM OF 3'-0" AND A MAXIMUM OF 15'-0".
 2. MINIMUM DESIGN LOAD RATING TO AASHTO HS-25.
 3. CABLE RACKING SHALL BE PROVIDED BY CABLE INSTALLER.
 4. REBAR WITHIN SPLICE CHAMBER WALLS SHALL NOT FORM A CLOSED LOOP AROUND ANY 8" CONDUIT OPENING.
 5. DETAILS SHOWN REPRESENT SPLICE VAULT FOR A SINGLE CIRCUIT. ALTHOUGH NOT SHOWN, A SECOND CIRCUIT COULD BE INSTALLED WITHIN THE SAME VAULT WHICH MAY INCREASE DIMENSIONS.
 6. ALL DIMENSIONS ARE INDICATIVE AND ARE SUBJECT TO CHANGE.



PRELIMINARY - NOT FOR CONSTRUCTION



date	01-DEC-2020	detailed	J. RIFFEL
designed	D. GOGOL	checked	D. LAWTON

CABLE SPLICE VAULT DETAIL

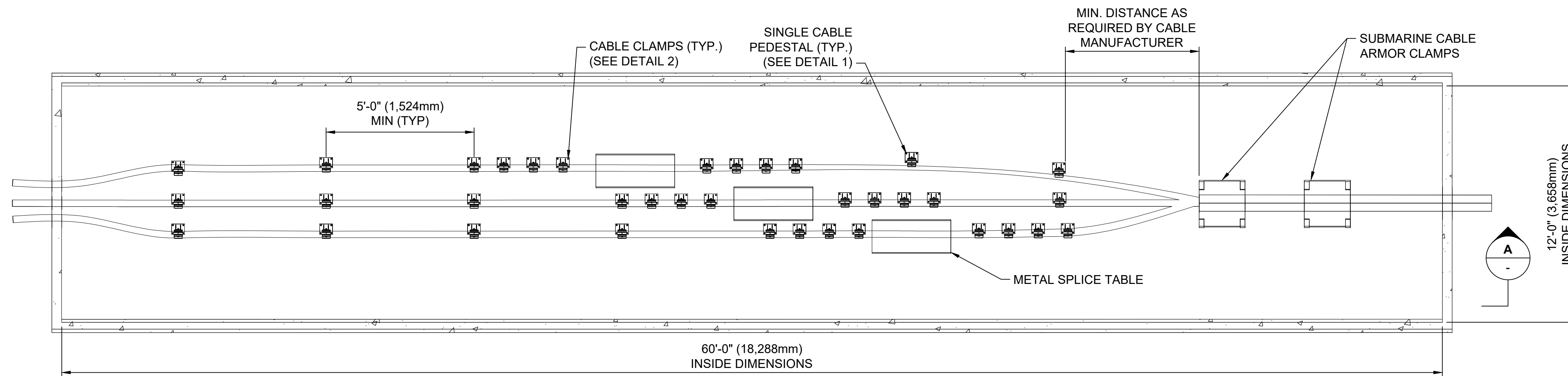
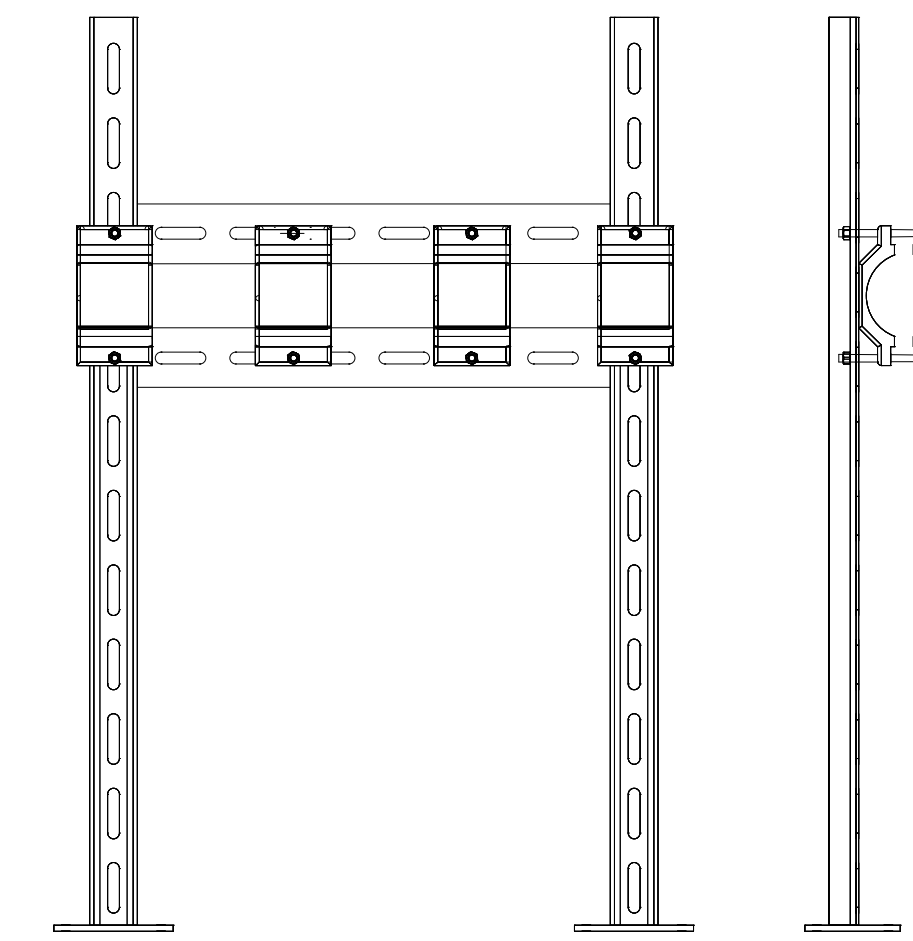
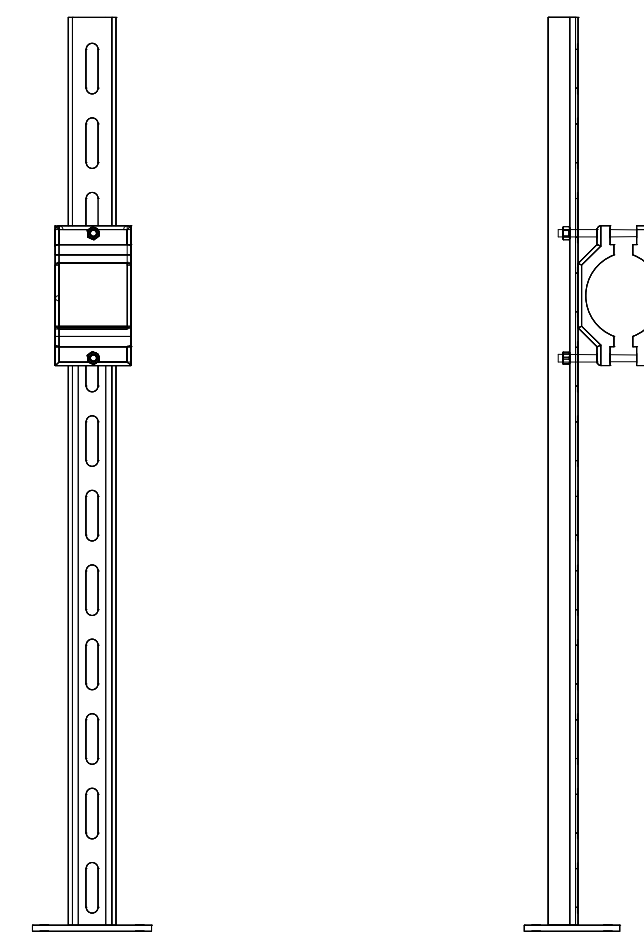
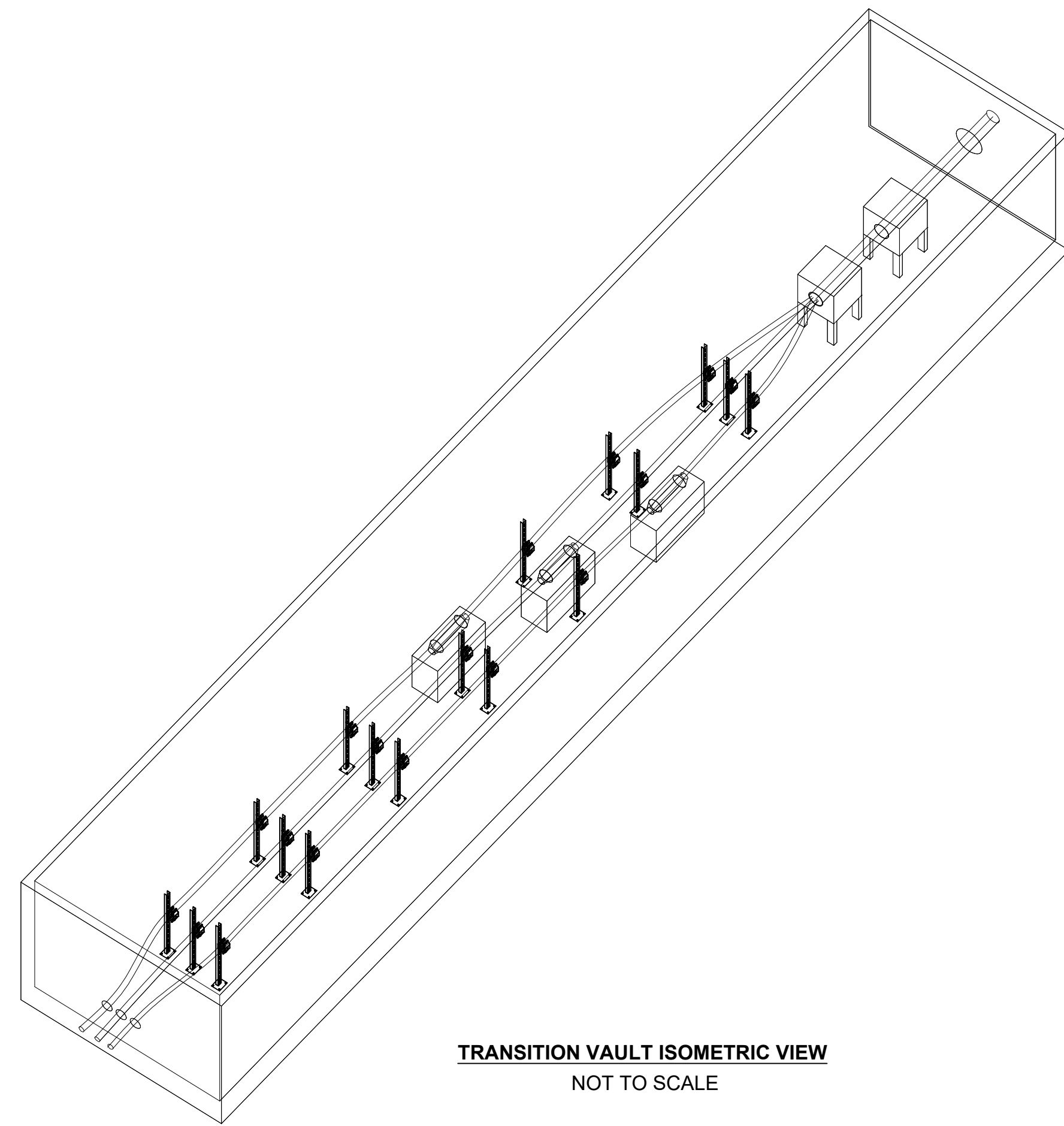
MAYFLOWER WIND PROJECT
CONCEPTUAL DRAWINGS
BARNSTABLE COUNTY, MASSACHUSETTS

project	112083	RDS-PP CODE
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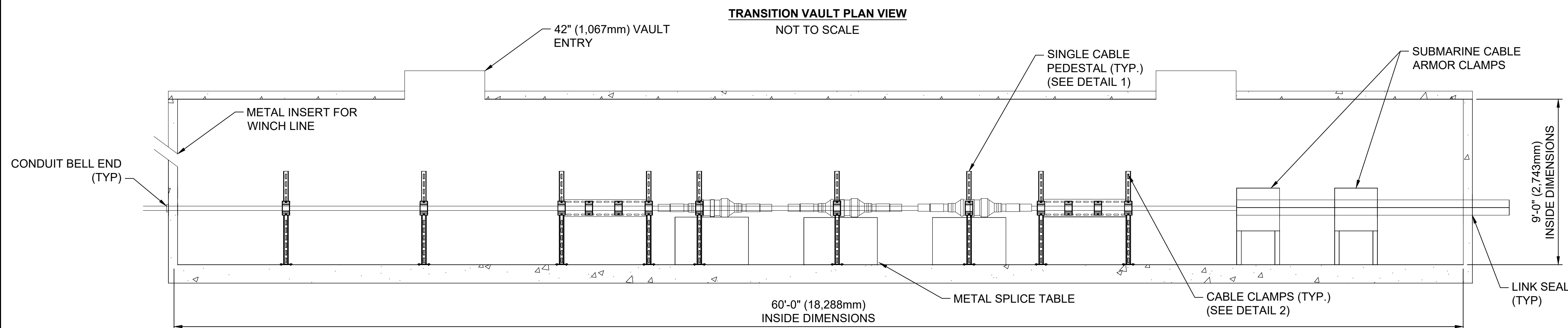
drawing **UG-006** - rev. **F**

sheet	1	of	1	sheets
file	6-9_Splice Vault Details			

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- NOTES:
1. DIMENSIONS AND DETAILS SHOWN ARE PRELIMINARY AND SUBJECT TO CHANGE DURING DETAILED DESIGN.
 2. IF REQUIRED, HOIST OR RAILING SYSTEM INSIDE OF TRANSITION VAULT TO BE DESIGNED BY CABLE MANUFACTURER.
 3. MINIMUM DEPTH OF COVER, AS MEASURED AT ANY POINT OF THE BURIED MANHOLES, SHALL TYPICALLY BE DESIGNED TO A MINIMUM OF 3'-0" AND A MAXIMUM OF 15'-0".
 4. MINIMUM DESIGN LOAD RATING TO AASHTO HS-25.
 5. CABLE RACKING SHALL BE PROVIDED BY CABLE INSTALLER.
 6. REBAR WITHIN SPLICE CHAMBER WALLS SHALL NOT FORM A CLOSED LOOP AROUND ANY 8" CONDUIT OPENING.
 7. ALL DIMENSIONS ARE INDICATIVE AND ARE SUBJECT TO CHANGE.



no.	date	by	ckd	description
A	12/1/2020	JR	DDL	ISSUED FOR REVIEW
B	12/9/2020	JR	DDL	ISSUED FOR REVIEW
C	12/18/2020	JR	DDL	ISSUED FOR REVIEW
D	12/22/2020	JR	DDL	ISSUED FOR REVIEW
E	12/29/2020	JR	DDL	ISSUED FOR REVIEW
F	01/13/2021	JR	DDL	ISSUED FOR REVIEW

PRELIMINARY - NOT FOR CONSTRUCTION



date	01-DEC-2020	detailed	J. RIFFEL
designed	D. GOGOL	checked	D. LAWTON

INDICATIVE CABLE TRANSITION VAULT

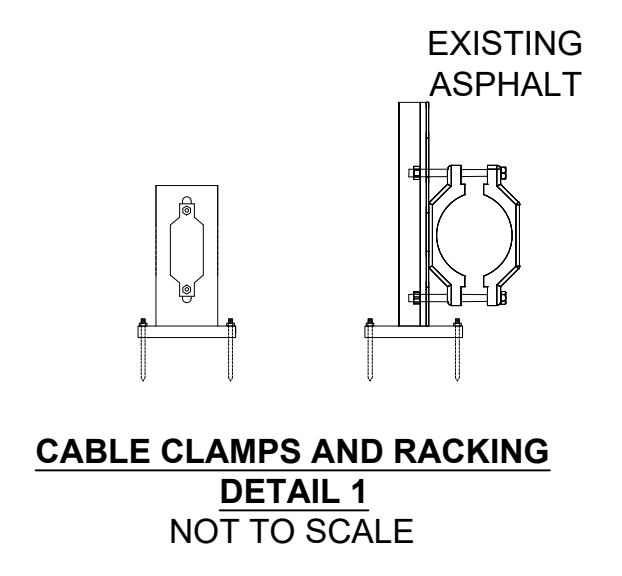
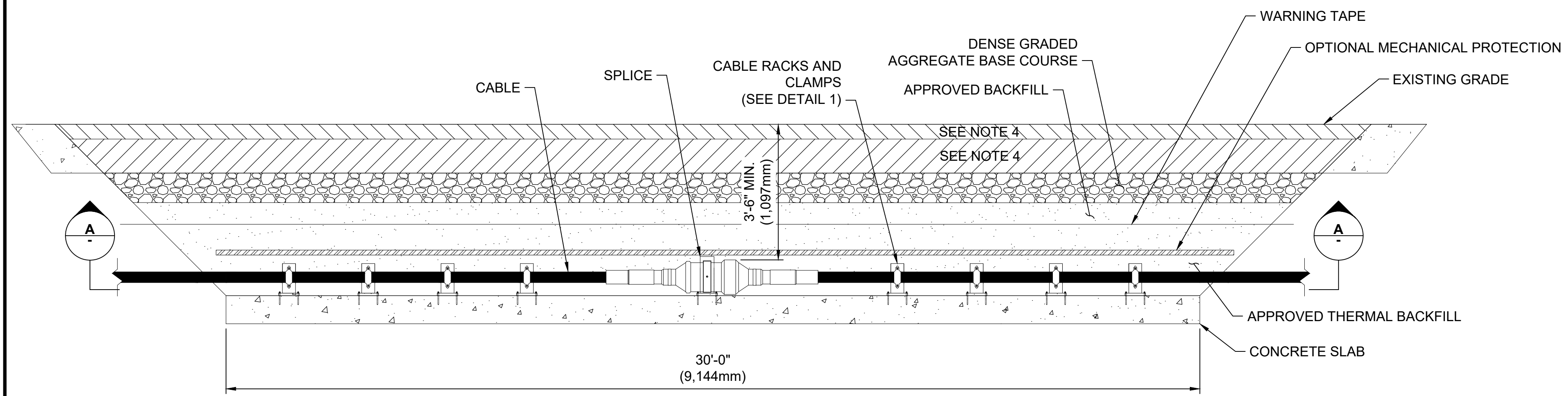
MAYFLOWER WIND PROJECT
CONCEPTUAL DRAWINGS
BARNSTABLE COUNTY, MASSACHUSETTS

project	121345	RDS-PP CODE
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drawing **UG-007** - rev. **F**

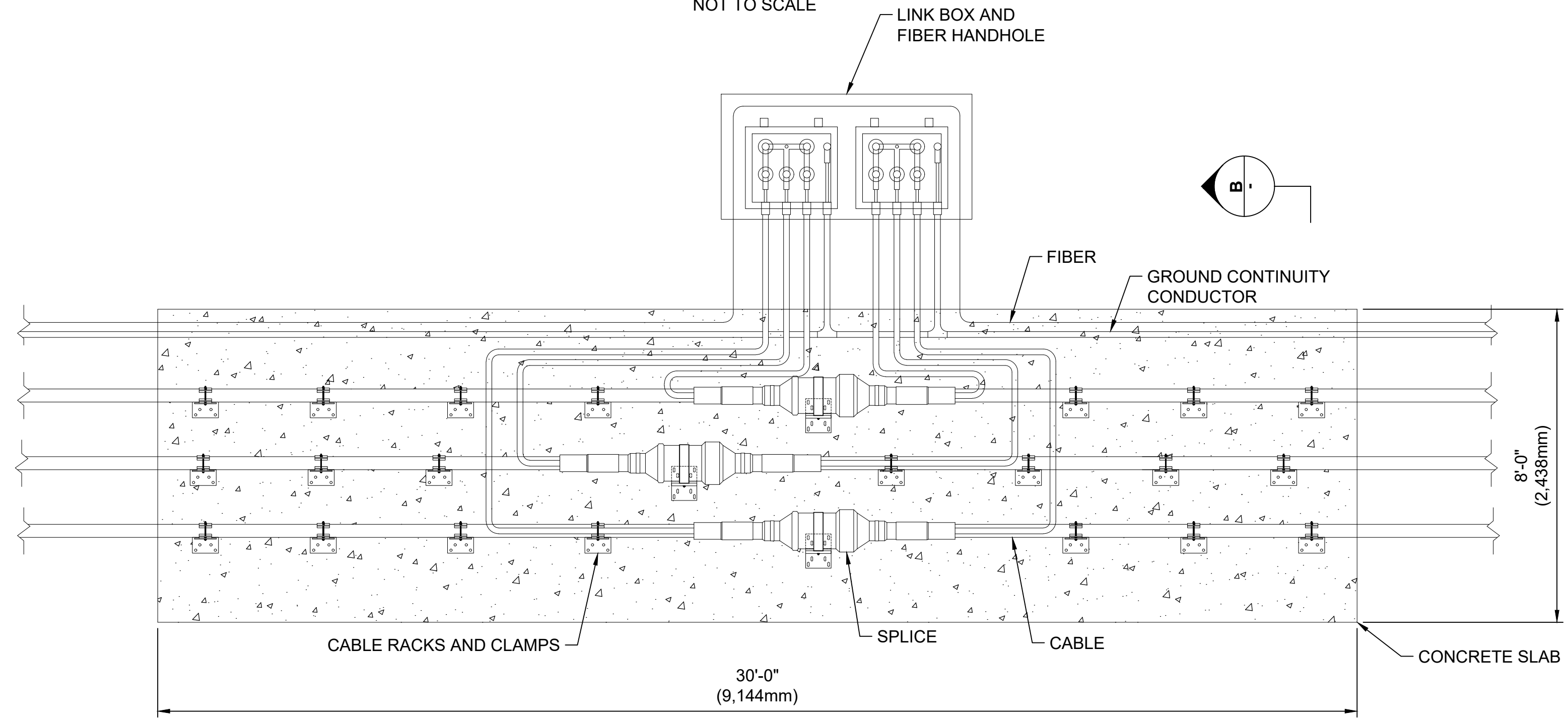
sheet 1 of 1 sheets
file 6-9_Splice Vault Details

no.	date	by	ckd	description
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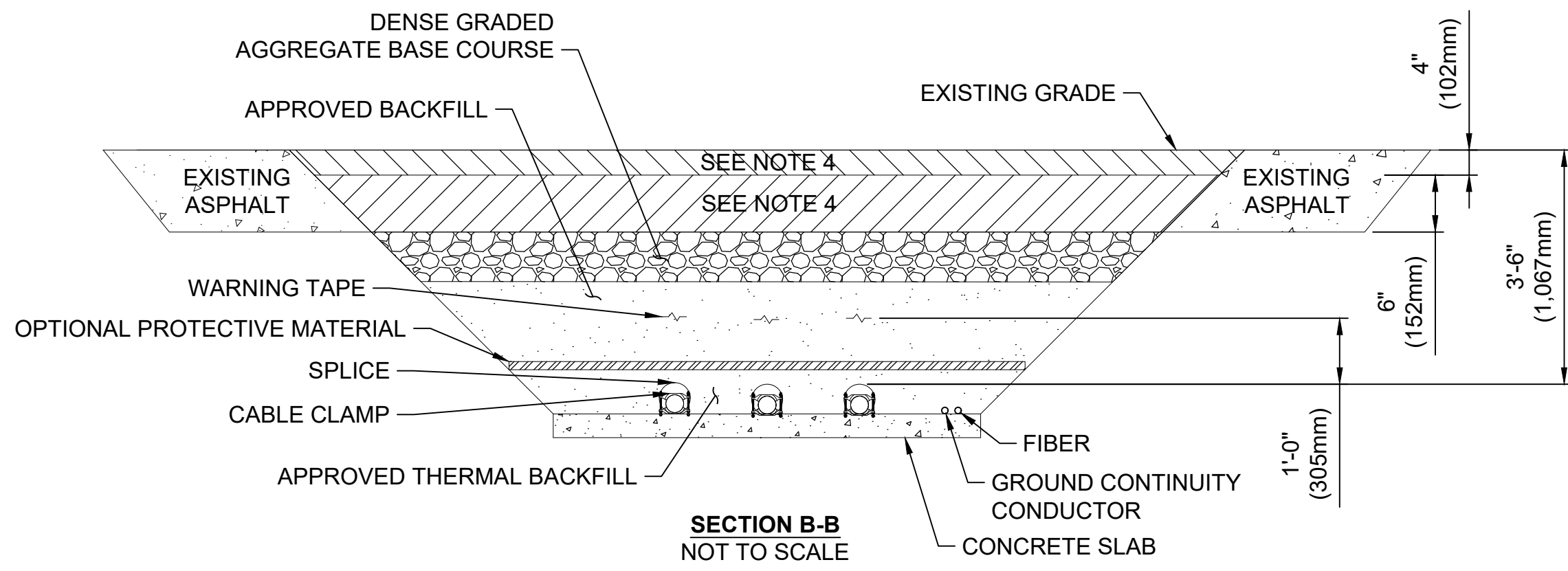


Scale For Microfitting
Millimeters
Inches

BURIED SPLICE PROFILE VIEW NOT TO SCALE



SECTION A-A NOT TO SCALE



SECTION B-B NOT TO SCALE

- NOTES:
- DIMENSIONS AND DETAILS SHOWN ARE PRELIMINARY AND SUBJECT TO CHANGE DURING DETAILED DESIGN.
 - CABLE RACKING SHALL BE PROVIDED BY CABLE INSTALLER.
 - CONCRETE SURROUND WALLS AND COVER COULD BE REQUIRED AND WILL BE DETERMINED DURING DETAILED DESIGN.
 - HOT MIX ASPHALT (HMA) OR OTHER APPROVED MATERIAL.
 - TRENCH EXCAVATION SUPPORT TO BE DETERMINED AND DESIGNED BY CONTRACTOR.

PRELIMINARY - NOT FOR CONSTRUCTION



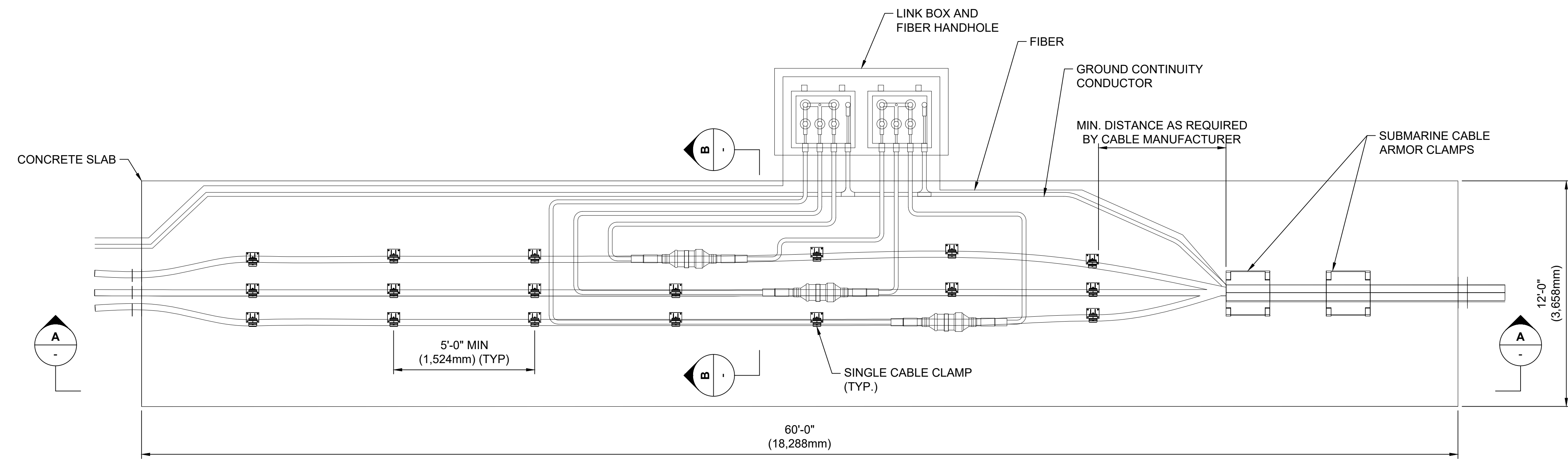
date	01-DEC-2020	detailed	J. RIFFEL
designed	D. GOGOL	checked	D. LAWTON

BURIED JOINT PIT

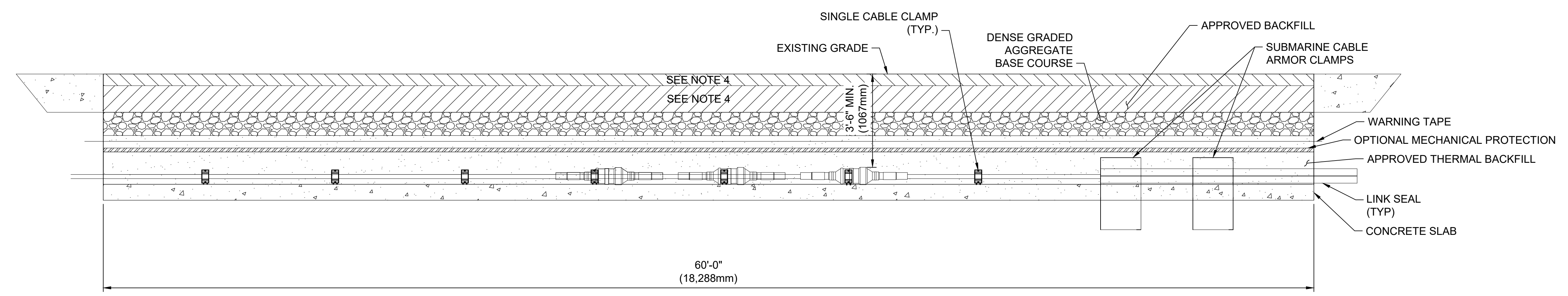
MAYFLOWER WIND PROJECT
CONCEPTUAL DRAWINGS
BARNSTABLE COUNTY, MASSACHUSETTS

project	112083	RDS-PP CODE
drawing	UG-008	rev. F
sheet	1 of 1	sheets
file 6-9_Splice Vault Details		

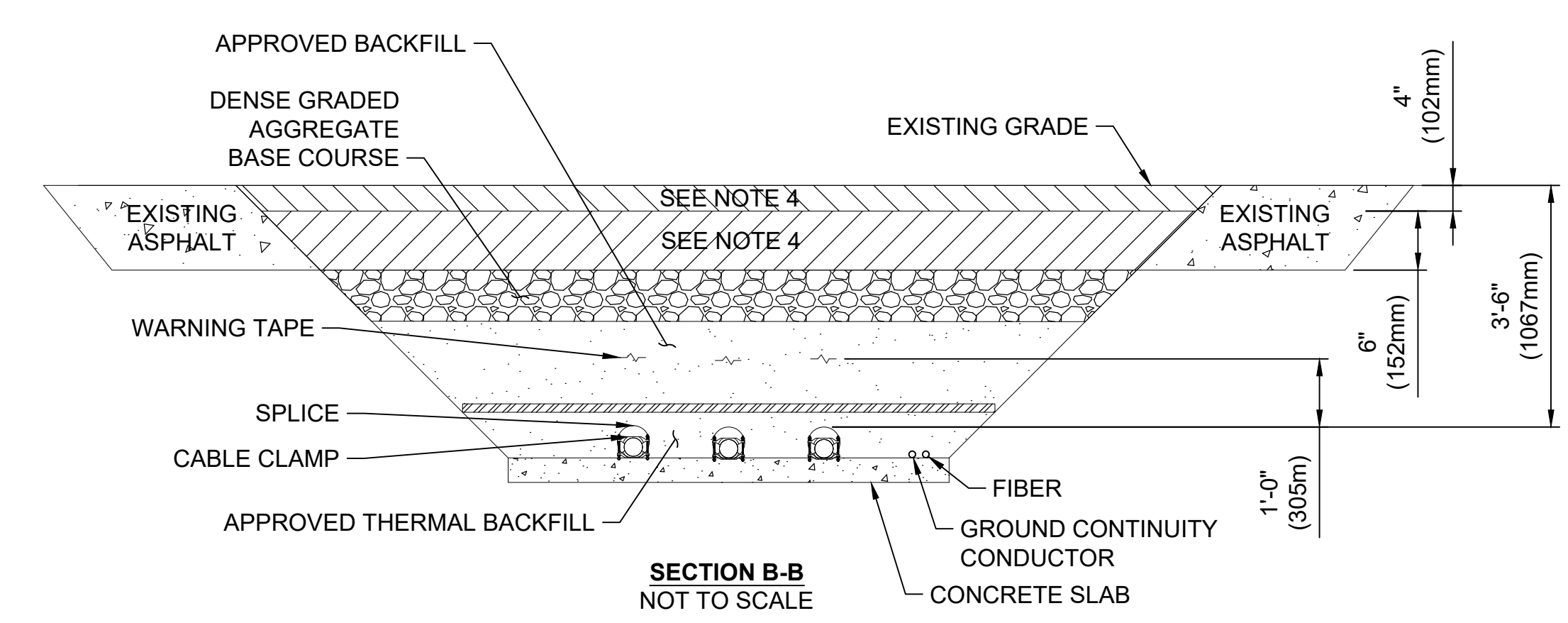
- NOTES:
- DIMENSIONS AND DETAILS SHOWN ARE PRELIMINARY AND SUBJECT TO CHANGE DURING DETAILED DESIGN.
 - CABLE RACKING SHALL BE PROVIDED BY CABLE INSTALLER.
 - CONCRETE SURROUND WALLS AND COVER COULD BE REQUIRED AND WILL BE DETERMINED DURING DETAILED DESIGN.
 - HOT MIX ASPHALT (HMA) OR OTHER APPROVED MATERIAL.
 - TRENCH EXCAVATION SUPPORT TO BE DETERMINED AND DESIGNED BY CONTRACTOR.



**TRANSITION SPLICE
PLAN VIEW
NOT TO SCALE**



**SECTION A-A
NOT TO SCALE**



**SECTION B-B
NOT TO SCALE**

no.	date	by	ckd	description
A	12/1/2020	JR	DDL	ISSUED FOR REVIEW
B	12/9/2020	JR	DDL	ISSUED FOR REVIEW
C	12/18/2020	JR	DDL	ISSUED FOR REVIEW
D	12/22/2020	JR	DDL	ISSUED FOR REVIEW
E	12/29/2020	JR	DDL	ISSUED FOR REVIEW
F	01/13/2021	JR	DDL	ISSUED FOR REVIEW

PRELIMINARY - NOT FOR CONSTRUCTION



date	01-DEC-2020	detailed	J. RIFFEL
designed	D. GOGOL	checked	D. LAWTON

BURIED TRANSITION JOINT PIT

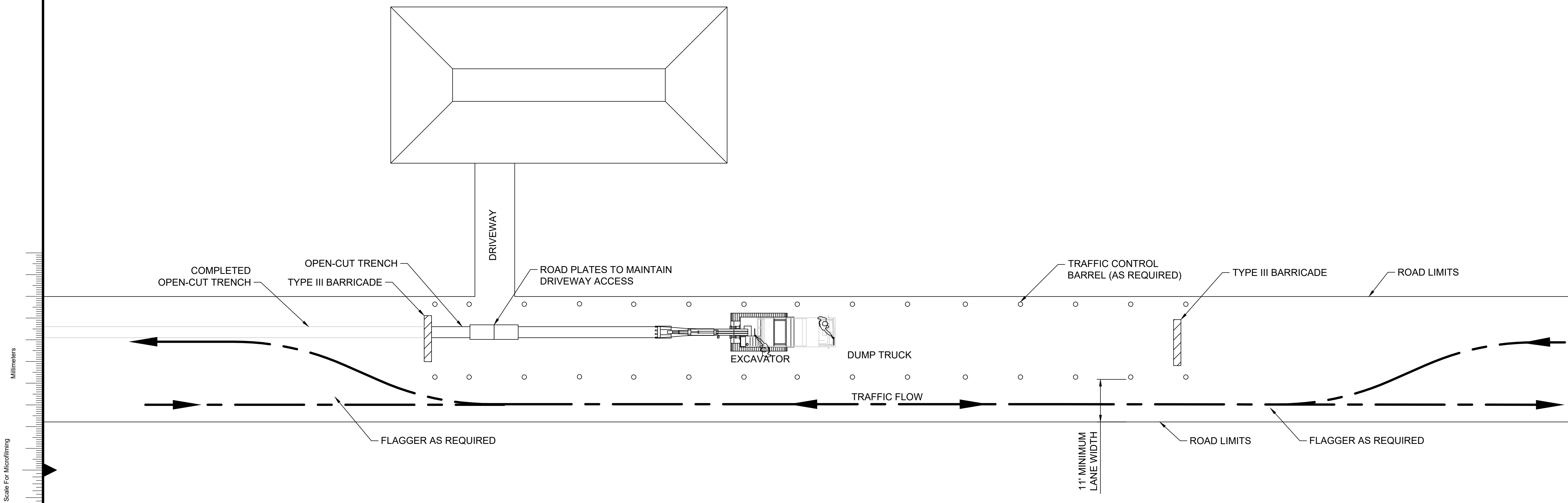
MAYFLOWER WIND PROJECT
CONCEPTUAL DRAWINGS
BARNSTABLE COUNTY, MASSACHUSETTS

project	112083	RDS-PP CODE
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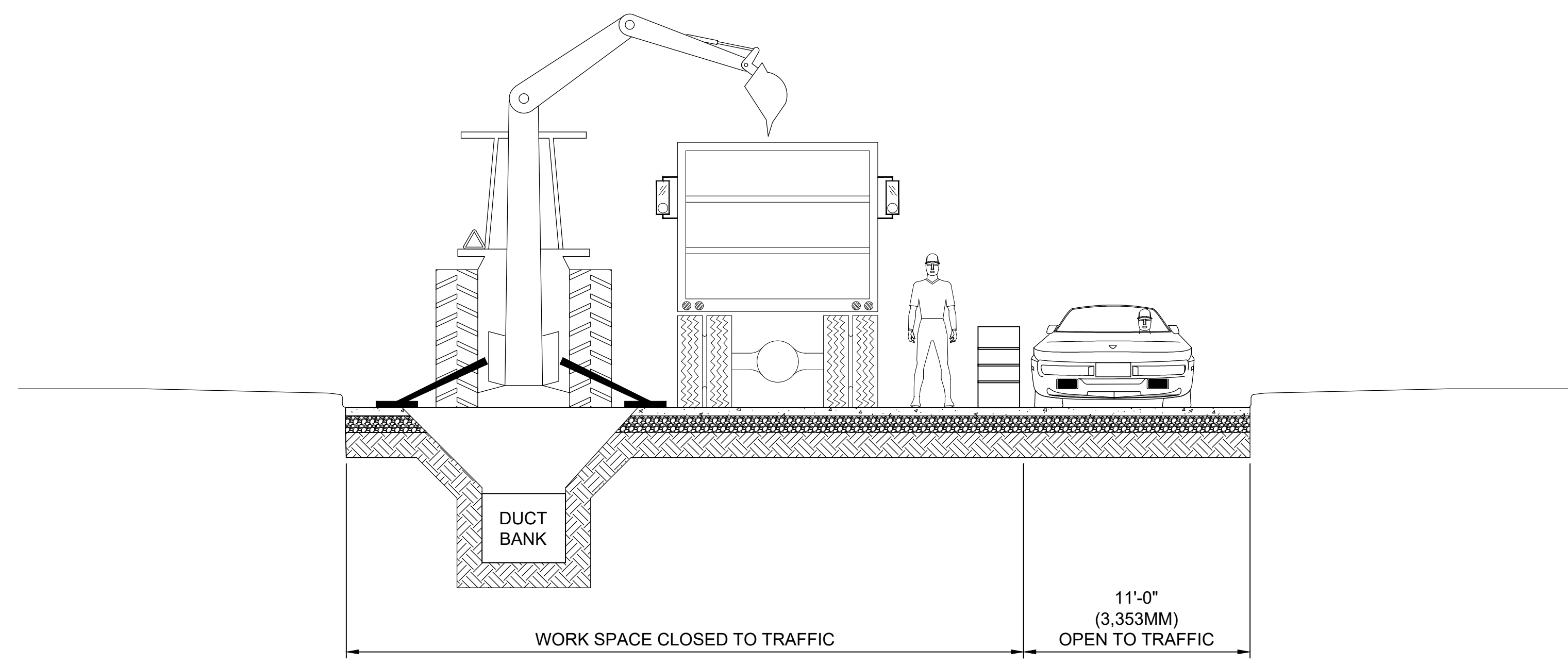
drawing **UG-009** - rev. **F**

sheet 1 of 1 sheets
file 6-9_Splice Vault Details

no.	date	by	ckd	description
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B	12/9/2020	JR	DDL	ISSUED FOR REVIEW
C	12/18/2020	JR	DDL	ISSUED FOR REVIEW
D	12/22/2020	JR	DDL	ISSUED FOR REVIEW
E	12/29/2020	JR	DDL	ISSUED FOR REVIEW
F	01/13/2021	JR	DDL	ISSUED FOR REVIEW



Millimeters
Scale For Microfilming
Inches



GENERAL ARRANGEMENT CROSS SECTION
NOT TO SCALE

- NOTES:
- ALL DIMENSIONS ARE INDICATIVE AND ARE SUBJECT TO CHANGE.
 - HOT MIX ASPHALT (HMA) OR OTHER APPROVED MATERIAL.

PRELIMINARY - NOT FOR CONSTRUCTION

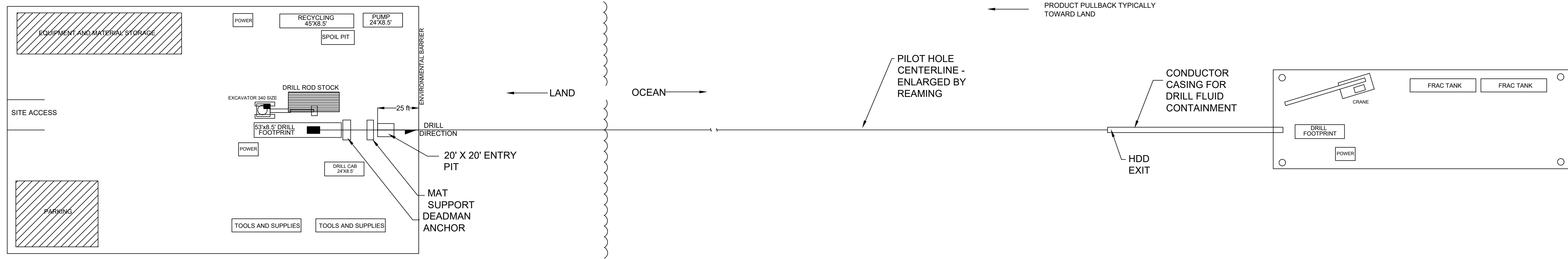


date	01-DEC-2020	detailed	J. RIFFEL
designed	D. GOGOL	checked	D. LAWTON

**INSTALLATION
GENERAL
ARRANGEMENT
CROSS SECTION**

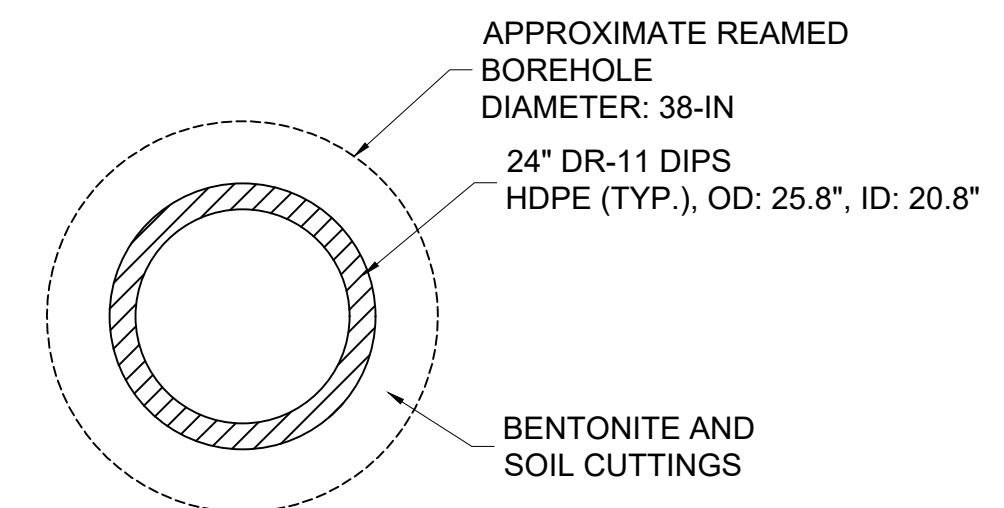
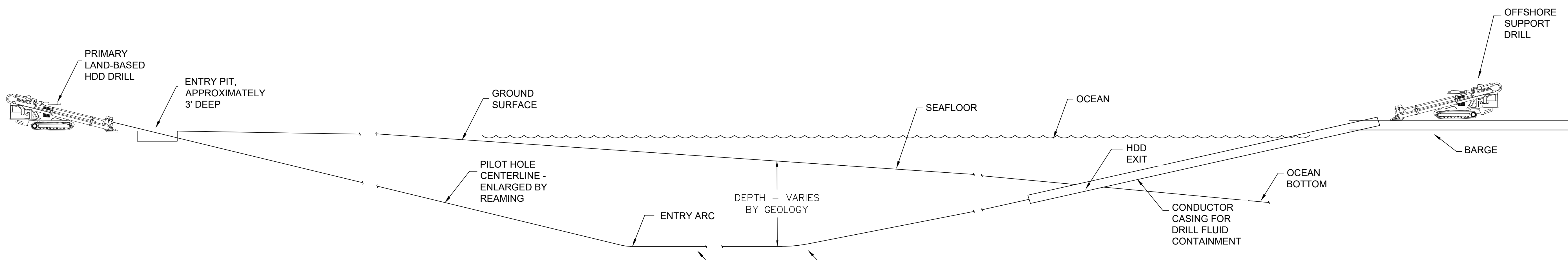
MAYFLOWER WIND PROJECT
CONCEPTUAL DRAWINGS
BARNSTABLE COUNTY, MASSACHUSETTS

project	121345	contract	
drawing	UG-010	rev.	F
sheet	1	of	1 sheets
file	10_General Arrangement		



- NOTES:**
- EQUIPMENT DIMENSIONS AND LAYOUT WILL VARY DEPENDING ON SITE CONDITIONS AND SELECTED CONTRACTOR.
 - PLAN DRAWING DEPICTS A SINGLE HDD INSTALLATION. EACH OFFSHORE EXPORT CABLE WILL BE INSTALLED IN A SEPARATE HDD BORE.
 - BARGE SIZE WILL VARY DEPENDING ON CONTRACTOR AND WATER DEPTH. TENDER BARGE NOT SHOWN.

SCHEMATIC PLAN
NTS



- NOTES:**
- THERMAL GROUT FILL OF THE BOREHOLE ANNULUS MAY BE REQUIRED.
 - FINAL BOREHOLE SIZE DEPENDENT ON CONDUIT DIAMETER, VARIES BY TOOL SIZE AND SUBSURFACE CONDITIONS.

BORE PROFILE
NTS

- NOTES:**
- HDD GEOMETRY VARIES BY LOCATION AND TO ACCOMMODATE SITE AND SUBSURFACE CONDITIONS.
 - GRAVITY CELL MAY BE USED IN LIEU OF CONDUCTOR CASING, DEPENDING ON SITE CONDITIONS.
 - CONDUCTOR CASING SIZE AND DEPTH VARY BY INSTALLATION.
 - BARGE TYPE VARIES BY WATER DEPTH.
 - CONSTRUCTION OF TEMPORARY CONTAINMENT STRUCTURES (E.G. COFFERDAM, GRAVITY CELL) AT OFFSHORE HDD EXIT POINT MAY BE REQUIRED.

SCHEMATIC PROFILE
NTS

no.	date	by	ckd	description
A	12/1/2020	JR	DDL	ISSUED FOR REVIEW
B	12/9/2020	JR	DDL	ISSUED FOR REVIEW
C	12/18/2020	JR	DDL	ISSUED FOR REVIEW
D	12/22/2020	JR	DDL	ISSUED FOR REVIEW
E	12/29/2020	JR	DDL	ISSUED FOR REVIEW
F	01/13/2021	JR	DDL	ISSUED FOR REVIEW

PRELIMINARY - NOT FOR CONSTRUCTION

BRIERLEY ASSOCIATES
Creating Space Underground
167 S. RIVER RD, SUITE #8, BEDFORD, NH 03110
PHONE: 603-266-5775 FAX: 603-266-5748

BURNS & MCDONNELL

date	01-DEC-2020	detailed
designed		checked

LANDFALL HDD SCHEMATIC

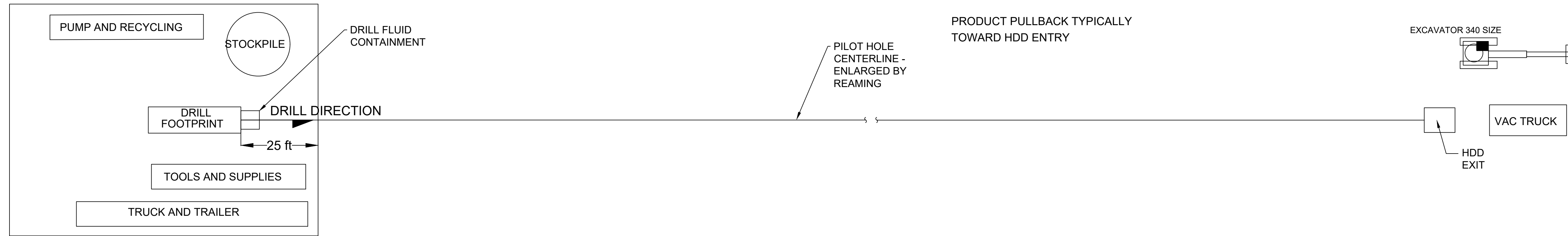
MAYFLOWER WIND PROJECT
UNDERGROUND COP DRAWINGS
BARNSTABLE COUNTY, MASSACHUSETTS

project	121345	RDS-PP CODE
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drawing **UG-011** - rev. **F**

sheet	1	of	2	sheets
file	HDD Schematic 12_17_2020			

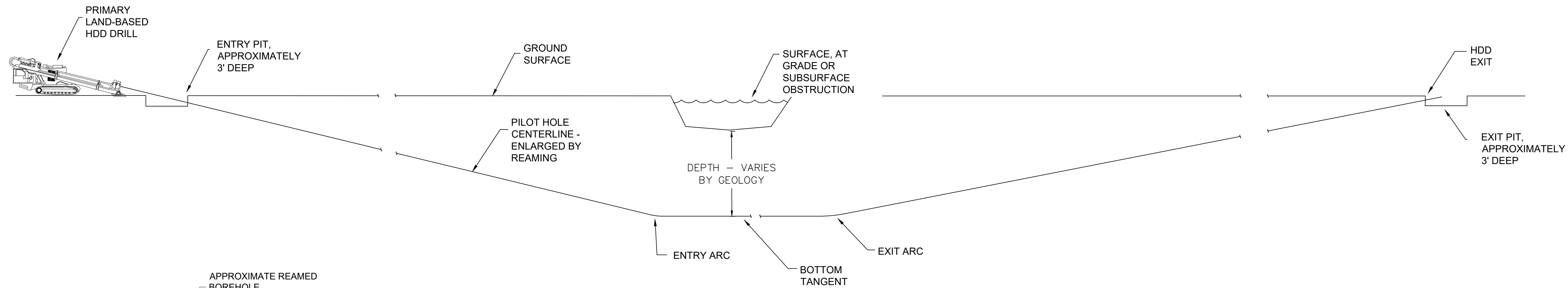
*NOTE: HDD ENTRY AREA WORK SPACE VARIES BASED ON RIG SIZE AND AVAILABLE SPACE



SCHEMATIC PLAN
NTS

NOTES:

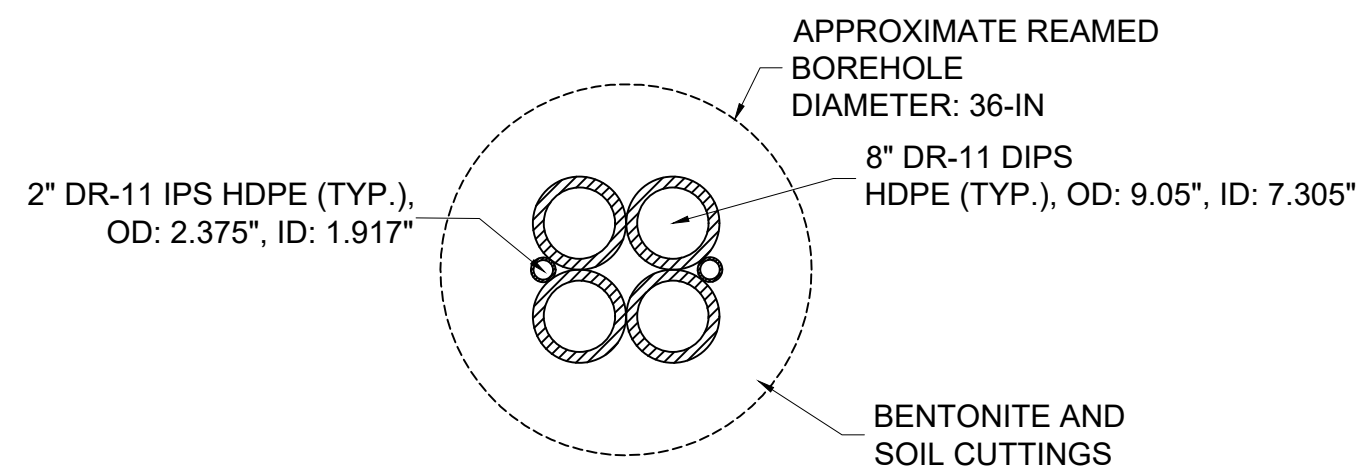
- EQUIPMENT DIMENSIONS AND LAYOUT WILL VARY DEPENDING ON SITE CONDITIONS AND SELECTED CONTRACTOR.
- PLAN DRAWING DEPICTS A SINGLE HDD INSTALLATION. EACH OFFSHORE EXPORT CABLE WILL BE INSTALLED IN A SEPARATE HDD BORE.
- DUCT LAYDOWN AT EXIT AREA NOT SHOWN.



SCHEMATIC PROFILE
NTS

NOTES:

- HDD GEOMETRY VARIES BY LOCATION AND TO ACCOMMODATE SITE AND SUBSURFACE CONDITIONS.



BORE PROFILE
NTS

NOTES:

- THERMAL GROUT FILL OF THE BOREHOLE ANNULUS MAY BE REQUIRED.
- FINAL BOREHOLE SIZE DEPENDENT ON CONDUIT DIAMETER, VARIES BY TOOL SIZE AND SUBSURFACE CONDITIONS.

no.	date	by	ckd	description
A	12/1/2020	JR	DDL	ISSUED FOR REVIEW
B	12/9/2020	JR	DDL	ISSUED FOR REVIEW
C	12/18/2020	JR	DDL	ISSUED FOR REVIEW
D	12/22/2020	JR	DDL	ISSUED FOR REVIEW
E	12/29/2020	JR	DDL	ISSUED FOR REVIEW
F	01/13/2021	JR	DDL	ISSUED FOR REVIEW

PRELIMINARY - NOT FOR CONSTRUCTION

BRIERLEY ASSOCIATES
Creating Space Underground
167 S. RIVER RD., SUITE #8, BEDFORD, NH 03110
PHONE: 603-206-5775 FAX: 603-206-5748

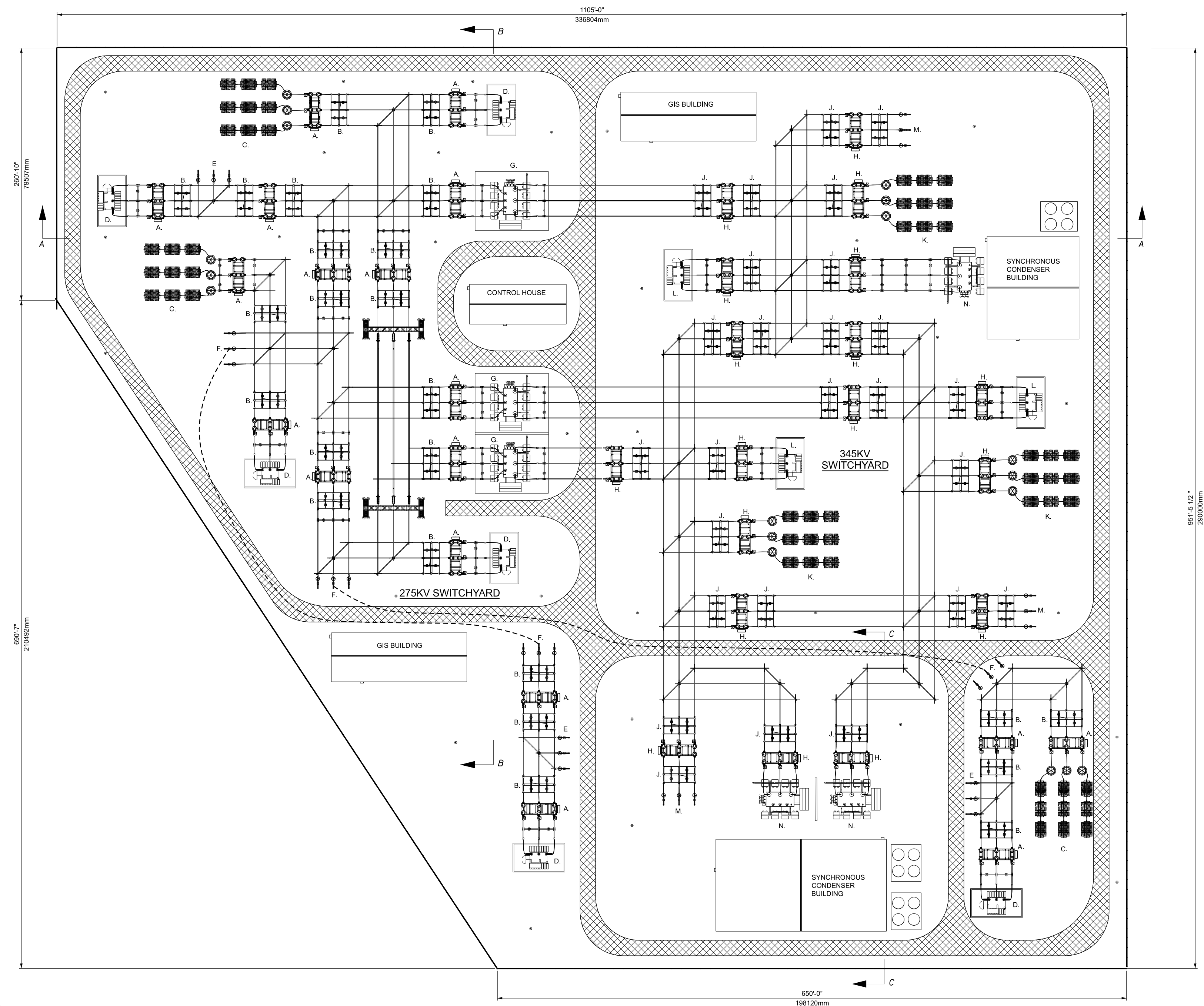
BURNS & MCDONNELL

date	01-DEC-2020	detailed
designed		checked

ONSHORE HDD SCHEMATIC

MAYFLOWER WIND PROJECT
UNDERGROUND COP DRAWINGS
BARNSTABLE COUNTY, MASSACHUSETTS

project	121345	RDS-PP CODE
drawing	UG-012	rev. F
sheet	1	of 1 sheets
file	HDD Schematic 12_17_2020	



260'-10"
79507mm

680'-7"
210492mm

1105'-0"
336804mm

95'-5 1/2"
29000mm

650'-0"
198120mm

Scale For Microfitting
Inches
Millimeters

LEGEND
 - - - - - FENCE LINE
 _____ ROAD

no.	date	by	ckd	description
A	09/23/20	AJD	NJM	ISSUED FOR REVIEW
B	12/7/20	AJD	NJM	ISSUED FOR REVIEW
C	12/17/20	SVK	NJM	ISSUED FOR REVIEW
D	12/23/20	SVK	NJM	ISSUED FOR REVIEW
E	01/13/21	CJG	NJM	ISSUED FOR REVIEW

- NOTES:**
- DESIGN IS PRELIMINARY AND BASED ON DESKTOP ANALYSIS ONLY. GEOTECHNICAL INFORMATION IS NOT AVAILABLE AT THIS STAGE TO SUPPORT DESIGN.
 - DESIGN IS BASED ON SINGLE LINE DIAGRAM FROM DRAWING MW01-EES-ELE-DWG-0002 REV A.
 - EQUIPMENT SIZES ARE APPROXIMATE.
 - GIS BUILDINGS ARE INCLUDED TO ACCOUNT FOR MAX CASE VISUAL IMPACT.

- LEGEND:**
- A. 275KV CIRCUIT BREAKER
 - B. 275KV DISCONNECT
 - C. 275KV HARMONIC FILTERS
 - D. 275KV SHUNT REACTORS
 - E. 275KV EXPORT CIRCUIT
 - F. 275KV CROSS YARD TIES
 - G. 275KV/345KV TRANSFORMERS
 - H. 345KV CIRCUIT BREAKER
 - J. 345KV DISCONNECT
 - K. 345KV HARMONIC FILTERS
 - L. 345KV SHUNT REACTORS
 - M. 345KV INTERCONNECTION CIRCUIT
 - N. 345KV SYNCHRONOUS CONDENSERS

PRELIMINARY - NOT FOR CONSTRUCTION

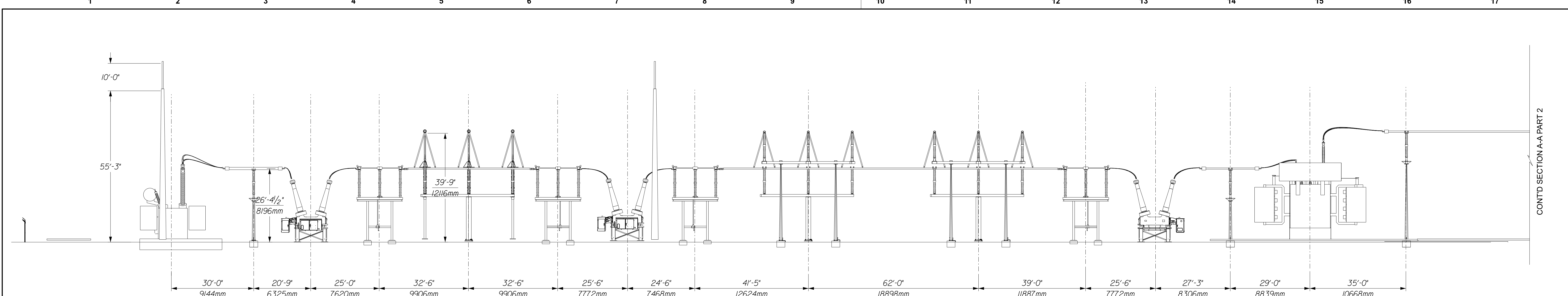


date	09/23/2020	detailed	S. KOVAL
designed	A. DORAN	checked	N. MATONE

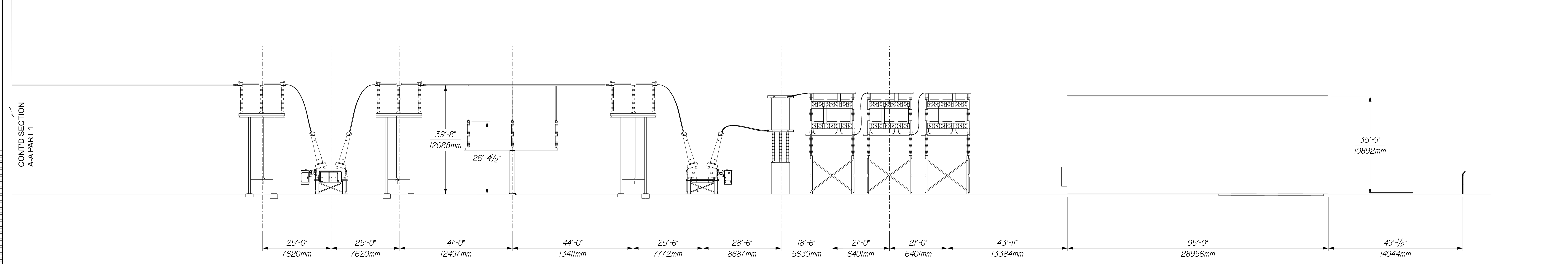
GENERAL ARRANGEMENT PLAN "MAX CASE" SUBSTATION

MAYFLOWER WIND PROJECT
 CONCEPTUAL DRAWINGS
 BARNSTABLE COUNTY, MASSACHUSETTS

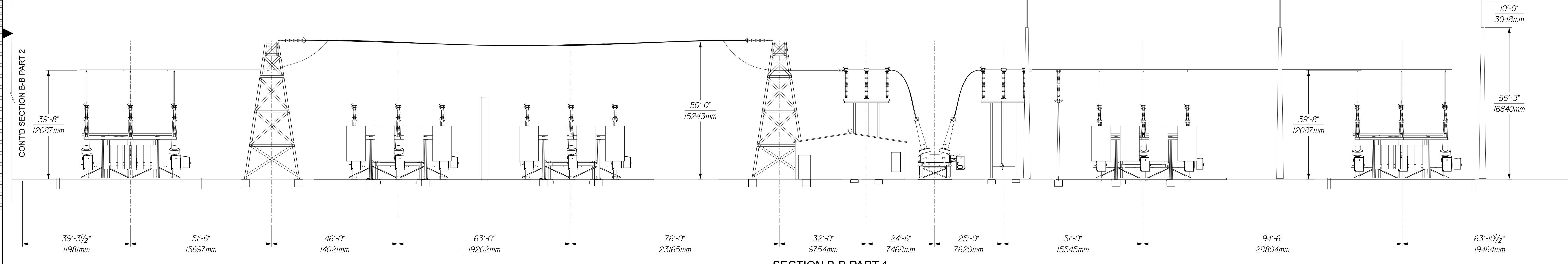
project	121345	contract	
drawing	SUB-001		rev. E
sheet	1	of 1	sheets
file	SUB-001-GENERAL ARRANGEMENT PLAN		



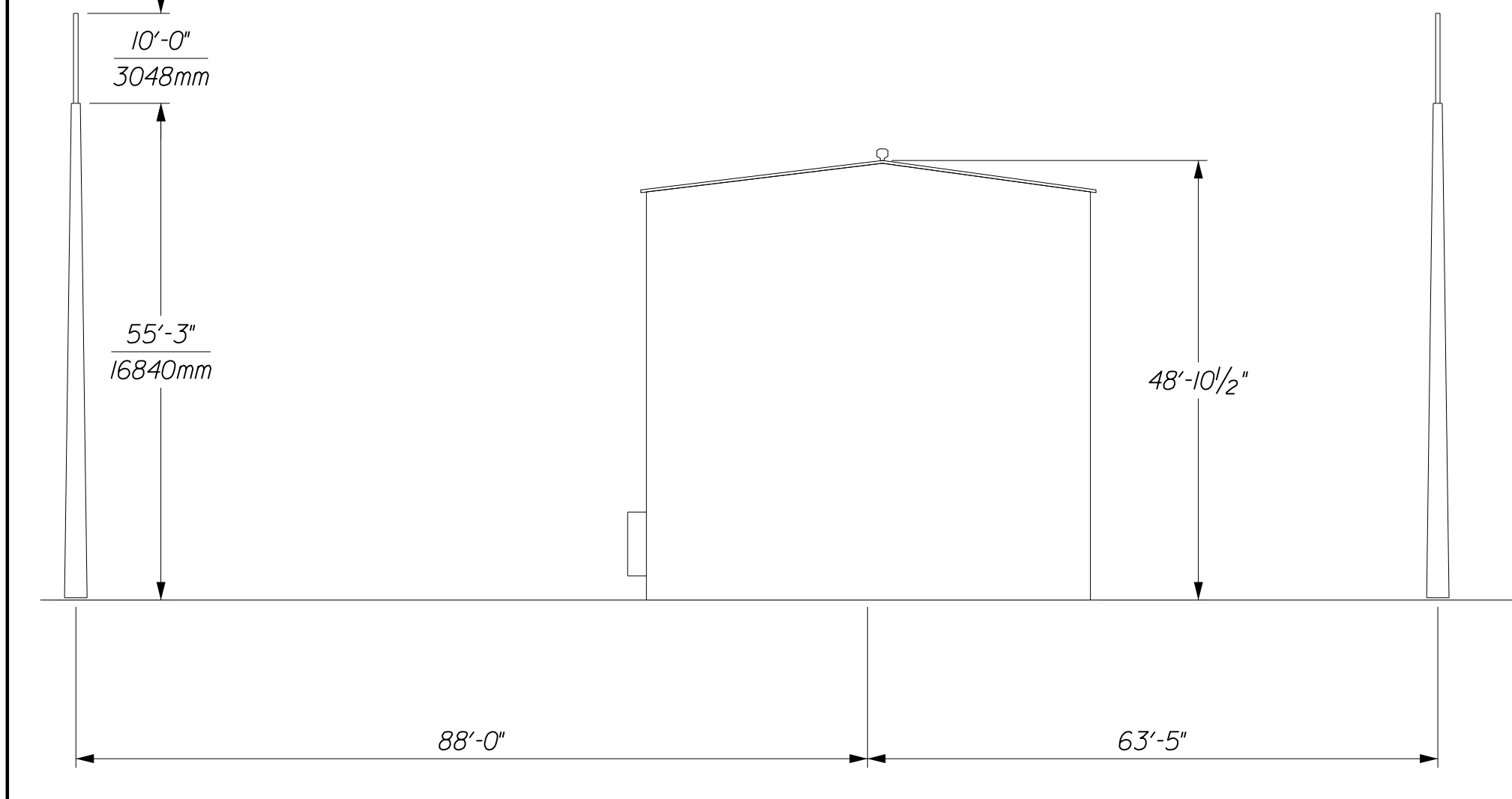
SECTION A-A PART 1



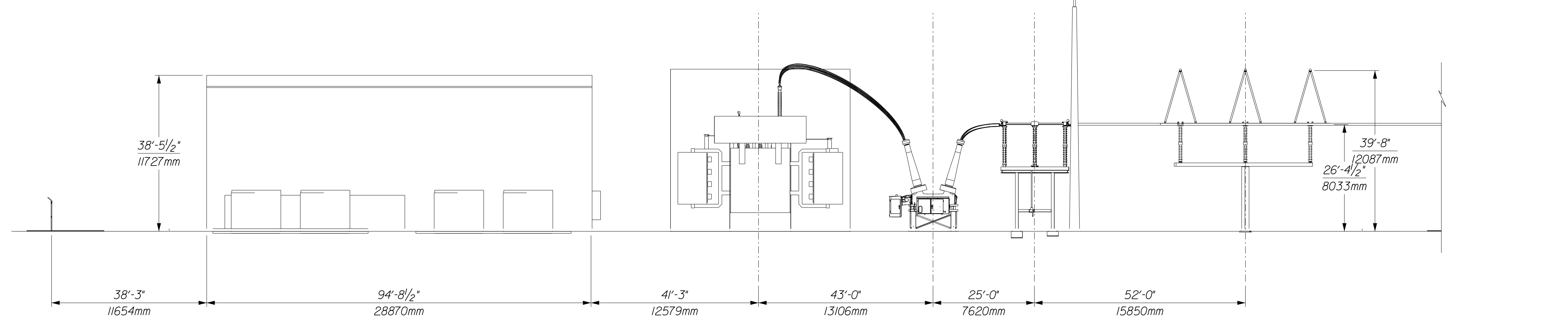
SECTION A-A PART 2



SECTION B-B PART 1



SECTION B-B PART 2



SECTION C-C

no.	date	by	ckd	description
A	12/7/20	AJD	NJM	ISSUED FOR REVIEW
B	12/17/20	SVK	NJM	ISSUED FOR REVIEW
C	12/23/20	SVK	NJM	ISSUED FOR REVIEW

NOTES:

- DESIGN IS PRELIMINARY AND BASED ON DESKTOP ANALYSIS ONLY. GEOTECHNICAL INFORMATION IS NOT AVAILABLE AT THIS STAGE TO SUPPORT DESIGN.
- DESIGN IS BASED ON SINGLE LINE DIAGRAM FROM DRAWING MW01-EES-ELE-DWG-0002 REV A.
- EQUIPMENT SIZES ARE APPROXIMATE.
- GIS BUILDINGS ARE INCLUDED TO ACCOUNT FOR MAX CASE VISUAL IMPACT.

PRELIMINARY - NOT FOR CONSTRUCTION



date	12/7/20	detailed	S. KOVAL
designed	S.KOVAL	checked	N. MATONE

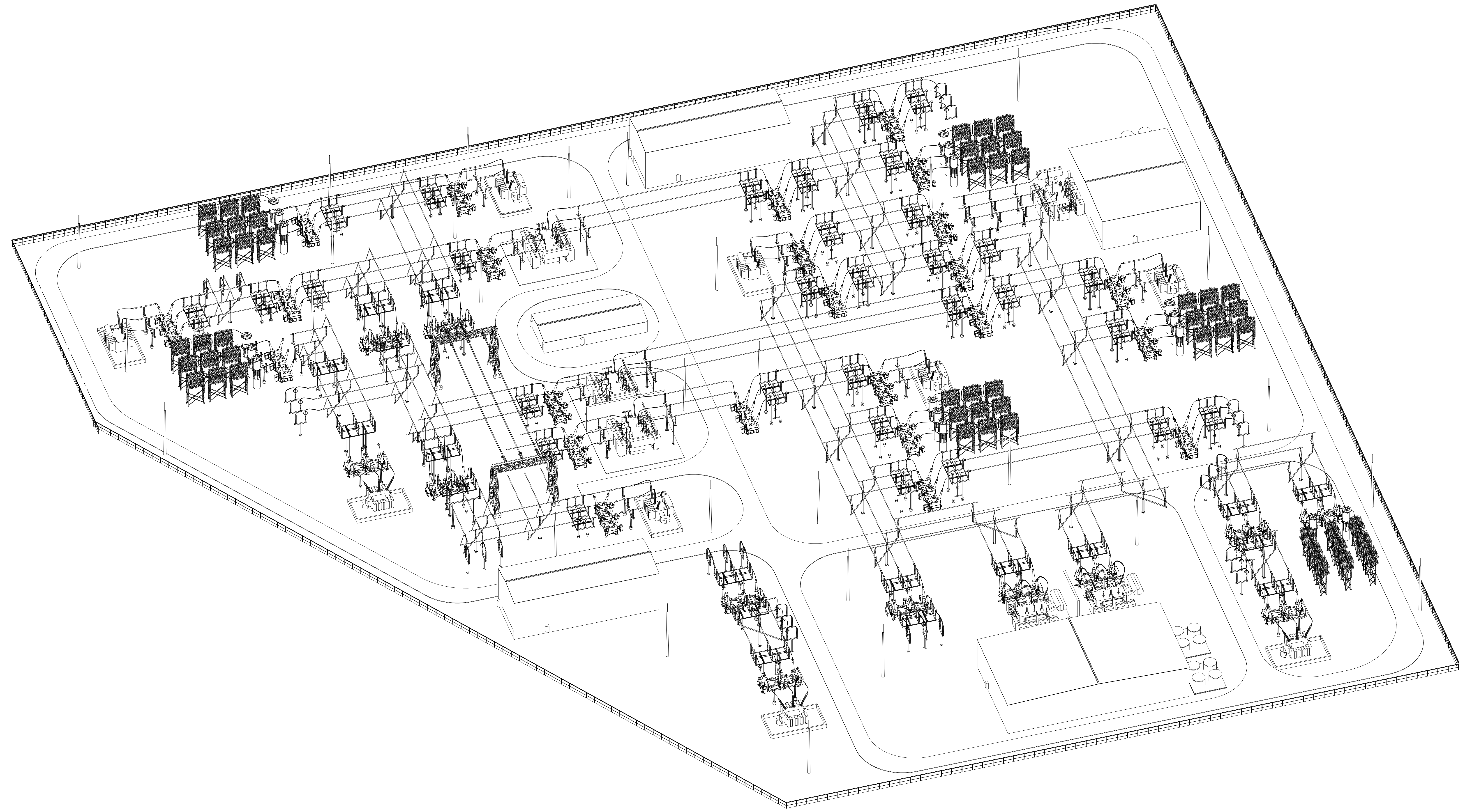
SECTIONS "MAX CASE" SUBSTATION

MAYFLOWER WIND PROJECT
CONCEPTUAL DRAWINGS
BARNSTABLE COUNTY, MASSACHUSETTS

project	121345	contract	
drawing	SUB-002	rev.	C
sheet	1	of	1
file	SUB-002-SECTIONS		

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17

no.	date	by	ckd	description
A	12/7/20	AJD	NJM	ISSUED FOR REVIEW
B	12/17/20	SVK	NJM	ISSUED FOR REVIEW
C	12/23/20	SVK	NJM	ISSUED FOR REVIEW



Millimeters
Scale For Microfitting
Inches

NOTES:

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- DESIGN IS BASED ON SINGLE LINE DIAGRAM FROM DRAWING MW01-EES-ELE-DWG-0002 REV A.
- EQUIPMENT SIZES ARE APPROXIMATE.
- GIS BUILDINGS ARE INCLUDED TO ACCOUNT FOR MAX CASE VISUAL IMPACT.

PRELIMINARY - NOT FOR CONSTRUCTION



date	12/7/20	detailed	S. KOVAL
designed	S.KOVAL	checked	N. MATONE

**ISOMETRIC VIEW
"MAX CASE"
SUBSTATION**

MAYFLOWER WIND PROJECT
CONCEPTUAL DRAWINGS
BARNSTABLE COUNTY, MASSACHUSETTS

project	121345	contract	
drawing	SUB-003	rev.	C
sheet	1	of	1
file	SUB-003- ISOMETRIC		

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