

# MONOKO, LLC

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**Submittal No.:** 04c: Containment Plans Rev 2, Pages C8A & C11A

**Date:** May 6, 2016

**Vermont Department of Transportation**  
Southwest Regional Construction Office  
Attn: Mr. Mark H. Mackintosh, P.E., Regional Construction Engineer  
61 Valley View  
Mendon, VT 05701  
(Phone) (802) 773-1384; (Fax) (802) 786-5894  
[Mark.Mackintosh@Vermont.gov](mailto:Mark.Mackintosh@Vermont.gov)

**Description:** Proposal/Contract Number: Bennington-Mt Tabor BF BPNT (16)  
Letting Date: 06/05/15; Award Date: 07/01/15  
Project Description: Bridge Painting of Five Bridges  
In the Towns of Bennington & Mt. Tabor, VT  
Contract Amount: \$2,122,323.00; Completion Date: 09/02/16

**Contractor:** **MONOKO, LLC**  
**Reviewed & Approved By:** Keri Monokandilos  
Keri Monokandilos, Manager  
**Date:** 05/06/2016

**Engineer:** Tim Pockette, P.E., Resident Engineer  
61 Valley View  
Mendon, VT 05701  
802-773-1384  
802-793-4027 cell  
[Tim.Pockette@vermont.gov](mailto:Tim.Pockette@vermont.gov)

**Revision:**  
**We have added the use of fence platform in conjunction with the corrugated platform for bridges 15 and 16N & S. These pages are shown on C8A & C11A. Note that only corrugated platform will be used over live lanes.**

## SUBMITTAL REVIEW

Review is only for general conformity to the contract drawings and specifications and shall not relieve the contractor of his entire responsibility under the contract, including among other things, dimensions to be confirmed and correlated at the job site, and information that pertains to the fabrication processes or to techniques of construction.

- NO EXCEPTIONS TAKEN
- MAKE CORRECTIONS NOTED  
RESUBMITTAL NOT REQUIRED
- AMEND AND RESUBMIT
- REJECTED - SEE REMARKS

**PB AMERICAS, INC.**  
BY: Subayungta  
DATE: 5/9/16

Vermont Agency of Transportation

## RECEIVED

ON: May 10, 2016

and Checked for

## CONFORMANCE

BY: Mark Sargent DATE: 05/13/2016

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- C-16 CONTAINMENT MISCELLANEOUS DETAILS (3 OF 4)
- C-17 CONTAINMENT MISCELLANEOUS DETAILS (4 OF 4)

**VERMONT**  
**DEPARTMENT OF TRANSPORTATION**

PROJECT NO. BF BPNT (16)  
FIVE BRIDGES ON OR OVER US ROUTE 7  
BRIDGE NOS. 11, D15, 16N, 16S, 56C  
BENNINGTON AND RUTLAND COUNTY, VERMONT

ABRASIVE BLASTING  
CONTAINMENT PLANS, REV. 3

PREPARED FOR:  
**MONOKO, LLC.**  
1037 PENINSULA AVENUE  
TARPON SPRINGS, FL 34689  
PHONE (727) 940-324  
FAX (727) 279-8795

PREPARED BY:  
**A2B ENGINEERING, LLC.**  
5406 N. HOOVER BLVD., SUITE 12  
TAMPA, FL 33634  
PHONE (813) 249-2220  
FAX (813) 793-4692  
ENGINEER OF RECORD, PAUL R. STEIJLEN, PE  
VERMONT P.E. LICENSE NUMBER 107795

Vermont Agency of Transportation

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<input type="checkbox"/> NO EXCEPTIONS TAKEN <input checked="" type="checkbox"/> MAKE CORRECTIONS NOTED RESUBMITTAL NOT REQUIRED <input type="checkbox"/> AMEND AND RESUBMIT <input type="checkbox"/> REJECTED - SEE REMARKS	<b>PB AMERICAS, INC.</b> BY: <i>SK Bajungr</i> DATE: <i>5/9/16</i>



**SPECIFICATIONS:**

VERMONT AGENCY OF TRANSPORTATION (VTRANS) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2014 EDITION, AND SUPPLEMENTS THERETO.

**DESIGN CRITERIA:**

DEAD LOAD (PLATFORM): 3 PSF  
 DEAD LOAD (SCAFFOLD): 220 LBS. (32"x28" MAX. 500 LBS. RATED)  
 LIVE LOAD (UNIFORM PLATFORM): 12 PSF (WEIGHT OF 1/2" STEEL SHOT)  
 LIVE LOAD (UNIFORM SCAFFOLD): 6 PSF (WEIGHT OF 1/4" STEEL SHOT)  
 LIVE LOAD (CONCENTRATED): 500 LBS. (TWO WORKERS MAX.)

**MATERIAL PROPERTIES:**

STRUCTURAL SHAPES, PLATES & BARS: ASTM A36, Fy = 36,000 PSI  
 STRUCTURAL TUBING: ASTM A500, GRADE B, Fy = 46,000 PSI  
 STRUCTURAL BOLTS: ASTM A325  
 TIMBER: SOUTHERN PINE NO. 2 (OR BETTER)  
 CABLES: 6x19 IWRC EIP  
 CHAIN LINK: 9-GAUGE GALVANIZED  
 METAL DECKING: ASTM A611 OR A653, Fy = 33,000 PSI

ALL BOLTS SHALL BE ANCHOR BOLTS: RED HEAD TRUBOLT WEDGE TYPE ANCHORS OR EQUIVALENT.

REQUIRED PLATFORM CABLE SIZES (3/8" Ø MIN. SUPPORT HANGER SPACING = 25'-0" MAX.)		
OPTION #	PLATFORM CABLE	PLATFORM CABLE SPACING
1	1/2" Ø	3'-9" (MAX.)
2	3/8" Ø	5'-3" (MAX.)

USE 1/2" Ø MIN. SCAFFOLD CABLE WITH 3/8" Ø MIN. SUPPORT HANGERS SPACED AT 25'-0" MAXIMUM.

NO MORE THAN 2 WORKERS SHALL BE ALLOWED PER PLATFORM CABLE OR SCAFFOLD CABLE. LIMIT 500 LB TOTAL WEIGHT OF WORKERS AND ABRASIVE BLASTING ON 500 LB RATED SCAFFOLD.

**STRUCTURAL IMPACT:**

THE PLATFORM CONTAINMENT STRUCTURE HAS BEEN ANALYZED FOR AN AVERAGE LIVE LOAD ALLOWANCE OF 16 PSF (APPROXIMATELY 1/2" AVERAGE DEPTH OF STEEL SHOT, 1.5" MINERAL SLAG ABRASIVE OR 1.5" SAND ABRASIVE, PLUS THE UNIFORM WORKER LOADING) WITH MAXIMUM OF 1" DEPTH OF STEEL SHOT (3" MINERAL SLAG ABRASIVE OR 3" SAND ABRASIVE) FOR THE CHAIN LINK. WHEN THE DEPTH OF SPENT ABRASIVES NEARS THE DEPTHS SPECIFIED, THE CONTRACTOR WILL CEASE ABRASIVE BLASTING OPERATIONS AND VACUUM THE SPENT ABRASIVES.

DEAD, LIVE AND WIND LOADS IMPOSED ON THE BRIDGE DUE TO INSTALLATION OF THE PROPOSED PLATFORM & CONTAINMENT SYSTEMS WILL HAVE NO ADVERSE EFFECT ON THE BRIDGE STRUCTURE, AS DEFINED IN (A) AASHTO STANDARDS SPECIFICATIONS FOR HIGHWAY BRIDGES (SIXTEENTH EDITION), FIGURE 3.7.6B AND (B) AASHTO MANUAL FOR CONDITION EVALUATION OF BRIDGES (SECOND EDITION), CHAPTER 6.6. THE BRIDGE HAS NOT BEEN ANALYZED FOR LOADS IMPOSED BY THE GRIT RECYCLING MACHINE (IF APPLICABLE). AS A RESULT, THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE OWNER FOR PLACEMENT OF ALL EQUIPMENT ALONG THE BRIDGE.

THE CONTAINMENT STRUCTURE HAS BEEN ANALYZED FOR A MAXIMUM WIND VELOCITY OF 40 MPH. IF WINDS NEARING OR EXCEEDING 40 MPH (OR A LESSER WIND IS SPECIFIED IN THE CONTRACT SPECIFICATIONS) ARE

PREDICTED, BLASTING AND PAINTING OPERATIONS SHALL CEASE, THE CONTRACTOR SHALL THOROUGHLY COLLECT AND REMOVE ALL SPENT ABRASIVE MATERIAL AND DEBRIS GENERATED FROM THE BLASTING AND PAINTING ACTIVITIES USING A VACUUM TRUCK AND/OR PUMP, AND THE PAINT CONTAINMENT TARPULINS SHALL BE ROLLED AND SECURED IN PLACE.

BASED ON THE MAXIMUM WIND VELOCITY OF 40 MPH (8 PSF WIND LOAD PER AASHTO), THE RESULTING LOAD TRANSFERRED TO A BRIDGE STRUCTURE IS 175 PLF. BASED ON A CONTAINMENT HEIGHT OF 50'-0". SINCE AASHTO SPECIFIES A LATERAL LOADING OF 300 PLF FOR DESIGN OF GIRDER BRIDGES, THE MAXIMUM ANTICIPATED WIND LOAD OF 175 PLF IS ACCEPTABLE. WIND LOADING ON GIRDER BRIDGES DOES NOT GOVERN.

FOR PROJECTS INVOLVING THE INSTALLATION OF SUSPENDED PLATFORM, AASHTO ALLOWS A 36% INCREASE IN STRESS FOR TEMPORARY LOADS (8 KSI INVENTORY RATING VERSUS 24.5 KSI OPERATING RATING). THE UNIFORM DESIGN FOR LOAD GIRDERS BRIDGES IS 64 PSF, AND THUS, THE ANTICIPATED WEIGHT OF THE PLATFORM CONTAINMENT (APPROX. 19 PSF) ADDED TO THIS ORIGINAL DESIGN LOADING RESULTS IN A MAXIMUM D+L LOADING OF 83 PSF ON THE GIRDERS (19 PSF + 64 PSF EQUIVALENT LIVE LOADING). TEMPORARY LOADING APPLIED TO THE BRIDGE MEMBERS RESULT IN A MAXIMUM 30% INCREASE, WHICH IS BELOW THE 36% INCREASE ALLOWED BY AASHTO. SINCE THE METHOD ASSUMES THAT THE EXISTING BRIDGE MEMBERS ARE 100% STRESSED PRIOR TO LOADING, THIS GENERAL COMPARISON IS CONSIDERED VERY CONSERVATIVE.

**GENERAL:**

THESE DRAWINGS DEPICT THE PAINT CONTAINMENT DESIGNS TO BE UTILIZED BY MONOKO, LLC., FOR BENNINGTON AND RUTLAND COUNTIES, VERMONT FOR THE FOLLOWING BRIDGES:

- BRIDGE NO. 11 (BENNINGTON COUNTY) US ROUTE 7 OVER ROARING BRANCH
- BRIDGE NO. D15 (BENNINGTON COUNTY) TH NO. 14 OVER US ROUTE 7
- BRIDGE NO. 16N (BENNINGTON COUNTY) US ROUTE 7 OVER BENN SH N
- BRIDGE NO. 16S (BENNINGTON COUNTY) US ROUTE 7 OVER BENN SH N
- BRIDGE NO. 56C (RUTLAND COUNTY) US ROUTE 7 OVER MILL BROOK

THE CONTRACTOR SHALL PROVIDE A MULTI-STAGE DECONTAMINATION TRAILER AND WATER WASH FACILITY FOR THE DURATION OF THE PROJECT, LOCATED AT AN APPROPRIATE SITE DETERMINED BY THE CONTRACTOR.

WORKERS WILL ACCESS THE BELOW-DECK CONTAINMENTS AT THE ABUTMENTS, FROM THE BRIDGE DECK ABOVE USING LADDERS. THE LADDERS WILL BE SECURED TO THE BRIDGE RAILINGS AND/OR TRUSS STEEL AT THE TOP AND TO THE PLATFORM SYSTEMS AT THE BOTTOM.

FOR WORK PERFORMED FROM 500 LBS RATED ALUMINUM SCAFFOLDS SUPPORTED BY 1/2" Ø CABLES RIGGED ALONG THE ENTIRE LENGTH OF THE BRIDGE, WORKER SAFETY TIE-OFF CABLES AND WORKER HARNESSES WILL BE UTILIZED DURING ALL WORK, INCLUDING INSTALLATION & REMOVAL OF THE PLATFORM SYSTEMS & DURING TRAVEL UP & DOWN THE LADDERS, IN ACCORDANCE WITH OSHA GUIDELINES.

THE ABRASIVE BLASTING CONTAINMENT AND/OR SUSPENDED PLATFORM DESIGNS, DETAILS AND INSTALLATION SPECIFICATIONS INCLUDED IN THIS PACKAGE WERE PREPARED UNDER THE DIRECTION OF THE CONTRACTOR. BY ACCEPTING THESE PLANS FOR SUBMITTAL, THE CONTRACTOR CONFIRMS THAT THE PLANS HAVE BEEN REVIEWED FOR CORRECTNESS, AND THAT THE SYSTEMS WILL BE INSTALLED IN ACCORDANCE WITH THE PLANS.

THE CONTRACTOR FULLY UNDERSTANDS & AGREES THAT A2B ENGINEERING, LLC AND THEIR CERTIFYING ENGINEER(S) ARE NOT RESPONSIBLE FOR THE ULTIMATE TECHNIQUES AND/OR METHODS OF CONSTRUCTION USED ON THIS PROJECT, OR THE SAFETY PRECAUTIONS & PROGRAMS INCIDENT THERETO, OR FOR ANY LOSS OR DAMAGES RESULTING FROM THE CONTRACTOR'S FAILURE TO COMPLY WITH LAWS AND REGULATIONS (PRIMARILY OSHA) APPLICABLE TO THE FURNISHING,

INSTALLING AND/OR PERFORMANCE OF WORK.

THE CONTRACTOR FULLY UNDERSTANDS & AGREES THAT A2B ENGINEERING, LLC HAS PREPARED THESE SUBMITTALS WITH THE UNDERSTANDING THAT THE CONTRACTOR AND THEIR EMPLOYEES HAVE THE KNOWLEDGE & EXPERTISE IN THE PROPER RIGGING OF THE CATENARY CONTAINMENT & WORKER ACCESS SYSTEMS PRESENTED ON THESE DRAWINGS, INCLUDING ALL OSHA REQUIREMENTS, AND IS NOT IN NEED OF DETAILED INSTALLATION AND/OR DISMANTLING PROCEDURES FOR SUCH INSTALLATIONS.

THE CONTRACTOR FULLY UNDERSTANDS & AGREES THAT BY ACCEPTING THESE DRAWINGS FOR SUBMITTAL, THEY ARE FULLY RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE & LOCAL CODES & REGULATIONS (PRIMARILY OSHA) AND HERE-BY HOLDS A2B ENGINEERING, LLC AND THEIR CERTIFYING ENGINEER(S) HARMLESS, AND INDEMNIFIES THEM FOR ANY LOSS OR DAMAGES RESULTING FROM THE CONTRACTOR'S FAILURE TO COMPLY WITH ANY/ALL APPLICABLE CODES, REGULATIONS AND/OR ANY MANUFACTURER'S INSTALLATION REQUIREMENTS, REGARDLESS OF WHETHER SAID INFORMATION IS OR IS NOT INCLUDED AS PART OF THESE SUBMITTALS.

THESE DRAWINGS & CALCULATIONS (IF APPLICABLE) HAVE BEEN PREPARED FOR THIS PROJECT ONLY. A2B ENGINEERING, LLC AND THEIR CERTIFYING ENGINEER(S) HAVE NO LIABILITY SHOULD ANY PORTIONS OF THESE DRAWINGS AND/OR CALCULATIONS BE USED FOR DIFFERENT PROJECT.

THESE PLANS WERE PREPARED WITHOUT THE BENEFIT OF AS-BUILT BRIDGE PLANS. DUE TO UNCERTAINTIES OF THE EXISTING STRUCTURE, THE CONTRACTOR MAY MAKE MINOR MODIFICATIONS TO THE PAINT CONTAINMENT STRUCTURE DETAILED IN THESE PLANS. A2B ENGINEERING, LLC SHALL BE NOTIFIED OF ANY MODIFICATIONS TO ENSURE THAT THE STRUCTURAL INTEGRITY OF THE PAINT CONTAINMENT STRUCTURE IS NOT COMPROMISED.

**SUBMITTAL REVIEW**

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- REJECTED - SEE REMARKS

PB AMERICAS, INC.

BY: *Paul R. Steilen*  
 DATE: *5/9/16*

Vermont Agency of Transportation

**RECEIVED**

ON: **May 10, 2016**

and Checked for

**CONFORMANCE**

BY: Mark Sargent DATE: 05/13/2016



Bridge Nos. All

GENERAL NOTES (1 OF 2)

FIVE BRIDGES ON OR OVER US ROUTE 7

REVISIONS		DATE	BY	DESCRIPTION	DRAWN BY	CHECKED BY	DESIGNED BY	DATE	VERMONT AGENCY OF TRANSPORTATION			PROJECT ID	SHEET NO.
DATE	BY								DESCRIPTION	ROAD ID	COUNTY		
02/29/16	PRS			GENERAL REVISION	BDN 11/15				BENNINGTON		BF BPMT (16)		
04/16/16	PRS			GENERAL REVISION	PDB 11/15				RUTLAND				
					MAT 11/15								
					PRS 11/15								

PAUL STEILEN P.E.  
 P.E. LICENSE NUMBER 107795  
 A2B ENGINEERING, LLC.  
 5406 N. HOOVER BLVD., SUITE 12  
 TAMPA, FL 33634

**MONOKO, LLC.**  
 1037 PENINSULA AVENUE  
 TARPON SPRINGS, FL 34689  
 PHONE (727) 940-3244  
 FAX (727) 279-8795

**CONTAINMENT ENCLOSURE:**

THE ABRASIVE BLASTING CONTAINMENT SYSTEM SHALL CONFORM TO THE REQUIREMENTS OF OSHA 1926 SUBPART L, OSHA 29 CFR 1910.28, ANSI A10.8 AND SSPC GUIDE 6.

ALL ABRASIVE BLAST CLEANING CONTAINMENTS, INCLUDING GROUND COVER, SIDEWALLS AND ENDWALLS, SHALL BE CONSTRUCTED OF 100% AIR IMPERMEABLE FIRE RESISTANT TARPULINS. ADJACENT TARPULIN PANELS SHALL BE FASTENED TOGETHER BY ROLLING AND CLAMPING OR BY CLAMPING TO LUMBER TO CREATE A CONTINUOUS IMPENETRABLE SEAL. THE CONTRACTOR MAY USE ANY APPROPRIATE METHOD AVAILABLE (TAPE, SPRAY FOAM, ETC) TO PROVIDE A CONTINUOUS SEAL TO CONTAIN DUST EMISSIONS (ABRASIVE BLASTING) AND/OR SOLVENT CLEANING/WATER WASHING OPERATIONS. SEE MISCELLANEOUS CONTAINMENT DETAILS SHEETS.

FOR BRIDGE TO GRADE CONTAINMENTS, THE TARPULIN BASE SHALL BE SEALED WITH SANDBAGS OR SIMILAR WEIGHTS. FOR SSPC CLASS 1A CONTAINMENTS, LUMBER PLANKS OR ALUMINUM SCAFFOLDS SHALL BE PLACED BELOW THE SANDBAGS TO PROVIDE A "CONTINUOUS" SEAL. FOR CLASS 2A CONTAINMENTS (OR LESSER), USE SANDBAGS OR SIMILAR WEIGHTED MATERIAL AT 5 FT (±) INTERVALS. FOR VERTICAL CONTAINMENTS, THE CONTRACTOR MAY UTILIZE CABLES ANCHORED WITH WEIGHTS OR ANCHORED TO THE GROUND TO SUPPORT THE VERTICAL TARPULIN WALLS.

FOR PLATFORM AND CABLE SUPPORTED CONTAINMENTS, TARPULIN WALLS SHALL BE SECURED TO APPROPRIATE BRIDGE ELEMENTS TO SEAL THE ENCLOSURE.

EXISTING BRIDGE DRAINS ENCLOSED WITHIN THE PAINT CONTAINMENT STRUCTURE SHALL BE TEMPORARILY PLUGGED OR WATER RUNOFF DIRECTED AWAY FROM THE CONTAINMENT ENCLOSURE AS SPECIFIED OR PERMITTED IN THE CONTRACT SPECIFICATIONS. AT THE CONCLUSION OF EACH WORKDAY, ALL PLUGGED DRAINS SHALL BE UNPLUGGED TO RESTORE DECK DRAINAGE. AT THE CONCLUSION OF THE BRIDGE CLEANING AND PAINTING OPERATIONS, RESTORE BRIDGE DRAINAGE TO THE SATISFACTION OF THE ENGINEER.

WHEN ABRASIVE BLASTING IS PERFORMED NEAR THE TARPULIN WALL, THE ABRASIVE BLAST SHALL BE DIRECTED AWAY FROM THE TARPULIN WALL. WHEN WORK IS PERFORMED NEAR AN INLET OPENING, THE OPENING SHALL BE TEMPORARILY SEALED TO MINIMIZE LOSS OF EMISSIONS.

TARPULINS SHALL BE 100% AIR/WATER IMPERMEABLE TO CONTAIN THE WASTE WATER AND BLASTING DEBRIS AND ALLOW FOR VACUUMING.

FOR SSPC TYPE 1A CONTAINMENTS, WORKERS SHALL ACCESS EACH CONTAINMENT THROUGH DOUBLE DOOR AIRLOCK ENTRANCE WHICH ALLOWS THE WORKERS TO SEAL ONE DOOR PRIOR TO ENTERING/EXITING THE CONTAINMENT THROUGH THE OTHER DOOR. TARPULIN DOORS SHALL BE CLOSED AND SEALED DURING BLASTING OPERATIONS TO PREVENT LOSS OF EMISSIONS. MINIMIZE PASSAGE IN AND OUT OF CONTAINMENT STRUCTURES DURING BLASTING OPERATIONS. DURING SANDBLASTING OPERATIONS, ALL WORKERS/PERSONNEL SHALL BE CLEANED WITH A HEPA VACUUM PRIOR TO LEAVING THE CONTAINMENT.

FOR SSPC TYPE 2A CONTAINMENTS (OR LESSER), WORKERS SHALL ACCESS EACH CONTAINMENT THROUGH OVERLAPPING TARPULIN DOORS. TARPULIN DOORS SHALL BE CLOSED AND SEALED DURING BLASTING OPERATIONS TO PREVENT LOSS OF EMISSIONS. MINIMIZE PASSAGE IN AND OUT OF CONTAINMENT STRUCTURES DURING BLASTING OPERATIONS. SEE MISCELLANEOUS CONTAINMENT DETAILS SHEETS.

AT THE CONCLUSION OF EACH WORK DAY, THE CONTRACTOR SHALL THOROUGHLY COLLECT AND REMOVE ALL SPENT ABRASIVE MATERIAL AND DEBRIS GENERATED FROM THE BLASTING AND PAINTING ACTIVITIES USING A VACUUM TRUCK AND/OR PUMP. DURING SANDBLASTING OPERATIONS, ALL WORKERS/PERSONNEL SHALL BE CLEANED WITH A HANDHELD HEPA VACUUM PRIOR TO LEAVING THE CONTAINMENT.

**CONTAINMENT NOTES:**

ALL WORK SHALL BE ASSEMBLED IN ACCORDANCE WITH THESE DRAWINGS, THE MANUFACTURER'S INSTRUCTIONS AND CRITERIA, INDUSTRY GUIDELINES AND THE MOST CURRENT EDITION OF ALL FEDERAL, STATE AND LOCAL REGULATIONS, STATUTES ORDINANCES, AND THE PROJECT SPECIFICATIONS. A2B ENGINEERING, LLC SHALL BE NOTIFIED WHERE DISCREPANCIES EXIST BETWEEN THESE DRAWINGS AND THE MANUFACTURER'S INSTRUCTIONS TO VERIFY THE APPROPRIATE CRITERIA.

THE CONTRACTOR IS SOLELY RESPONSIBLE TO ENSURE THAT ALL FALL PROTECTION IS INSTALLED PER OSHA AND PROJECT SPECIFICATIONS.

PRIOR TO CONSTRUCTION OF THE PAINT CONTAINMENT STRUCTURE ALL MATERIAL SHALL BE THOROUGHLY INSPECTED TO ENSURE THAT THEY CONTAIN NO DEFICIENCIES THAT WILL COMPROMISE THE STRUCTURAL INTEGRITY OF THE PAINT CONTAINMENT STRUCTURE. THE CONTRACTOR SHALL PERFORM PERIODIC INSPECTIONS OF THE PAINT CONTAINMENT STRUCTURE TO ENSURE THE STRUCTURAL INTEGRITY OF THE STRUCTURE REMAINS SECURE.

**VENTILATION SYSTEM:**

THE CONTRACTOR SHALL PROVIDE MECHANICAL EXHAUST VENTILATION FOR THE ABRASIVE BLASTING CONTAINMENT STRUCTURES USING ONE OR MORE MOBILE DUST COLLECTORS. THE CONTRACTOR PROPOSES TO USE ONE (1) 45,000 AT 13" W.G. CFM MOBILE DUST COLLECTOR MANUFACTURED BY ADVANCED RECYCLING SYSTEMS, INC. THE DUST COLLECTOR HAS AN ASSUMED DUST EXHAUST CAPACITY BASED ON THE NUMBER OF DUCTS PROVIDED AS:

- EXHAUST CAPACITY WITH 4 - 20 INCH DIAMETER DUCTS: 48,000 CFM
- EXHAUST CAPACITY WITH 3 - 20 INCH DIAMETER DUCTS: 45,000 CFM
- EXHAUST CAPACITY WITH 2 - 20 INCH DIAMETER DUCTS: 40,000 CFM
- EXHAUST CAPACITY WITH 1 - 20 INCH DIAMETER DUCT: 24,000 CFM

REFER TO PLAN SHEETS FOR NUMBER OF EXHAUST DUCTS AND INLET AREA REQUIREMENTS.

THE MAIN OBJECTIVE FOR USING THE NEGATIVE AIR EXHAUST VENTILATION SYSTEM IS TO CONTAIN AIRBORNE PARTICULATE WITHIN THE CONTAINMENT STRUCTURE AND PROVIDE AIR FLOW THROUGH THE CONTAINMENT STRUCTURE. CONTAINMENT SIDEWALLS, ENDWALLS AND GROUND COVERS SHALL BE CONSTRUCTED AND SEALED TO PREVENT EXCESSIVE LEAKS BETWEEN THE PANELS AND ALONG THE GROUND. A PRELIMINARY VENTILATION SYSTEM TEST OF EACH CONTAINMENT SHALL BE PERFORMED PRIOR TO STARTING ABRASIVE BLASTING OPERATIONS. AIR FLOW THROUGH THE CONTAINMENT SHALL BE VERIFIED AT MULTIPLE LOCATIONS THROUGHOUT THE CONTAINMENT USING A HAND-HELD MANOMETER. IF THE EXHAUST VENTILATION SYSTEM IS UNABLE TO ACHIEVE THE SPECIFIED AIR FLOW THROUGH THE CONTAINMENT STRUCTURE OR ADEQUATELY REMOVE AIRBORNE PARTICULATE MATTER, THE CONTRACTOR SHALL PROVIDE ADDITIONAL DUST COLLECTORS AND EXHAUST DUCTS, OR REDUCE THE SIZE OF THE ACTIVE PAINT CONTAINMENT ENCLOSURE BY INSTALLING INTERNAL TARPULIN WALLS. THE EXHAUST VENTILATION SYSTEMS SHALL REMAIN IN OPERATION DURING CLEANING AND VACUUMING OPERATIONS.

NO. OF 20" Ø DUCTS PROVIDED	4	3	2	1
VOLUME Q, CFM	48,000	45,000	40,000	24,000
MAX. CONTAINMENT AREA, SQ. FT. (V=100 FT/MIN.)	480.0	450.0	400.0	240.0
MIN. CONTAINMENT AREA, SQ. FT. (V=300 FT/MIN.)	160.0	150.0	133.3	80.0
MAX. INLET AREA, SQ. FT. (V=700 FT/MIN.)	68.6	64.3	57.1	34.3
MIN. INLET AREA, SQ. FT. (V=1000 FT/MIN.)	48.0	45.0	40.0	24.0

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PB AMERICAS, INC.  
 BY: *S. Bayungla*  
 DATE: *5/11/16*

Vermont Agency of Transportation

**RECEIVED**

ON: **May 10, 2016**

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**CONFORMANCE**

BY: Mark Sargent DATE: 05/13/2016

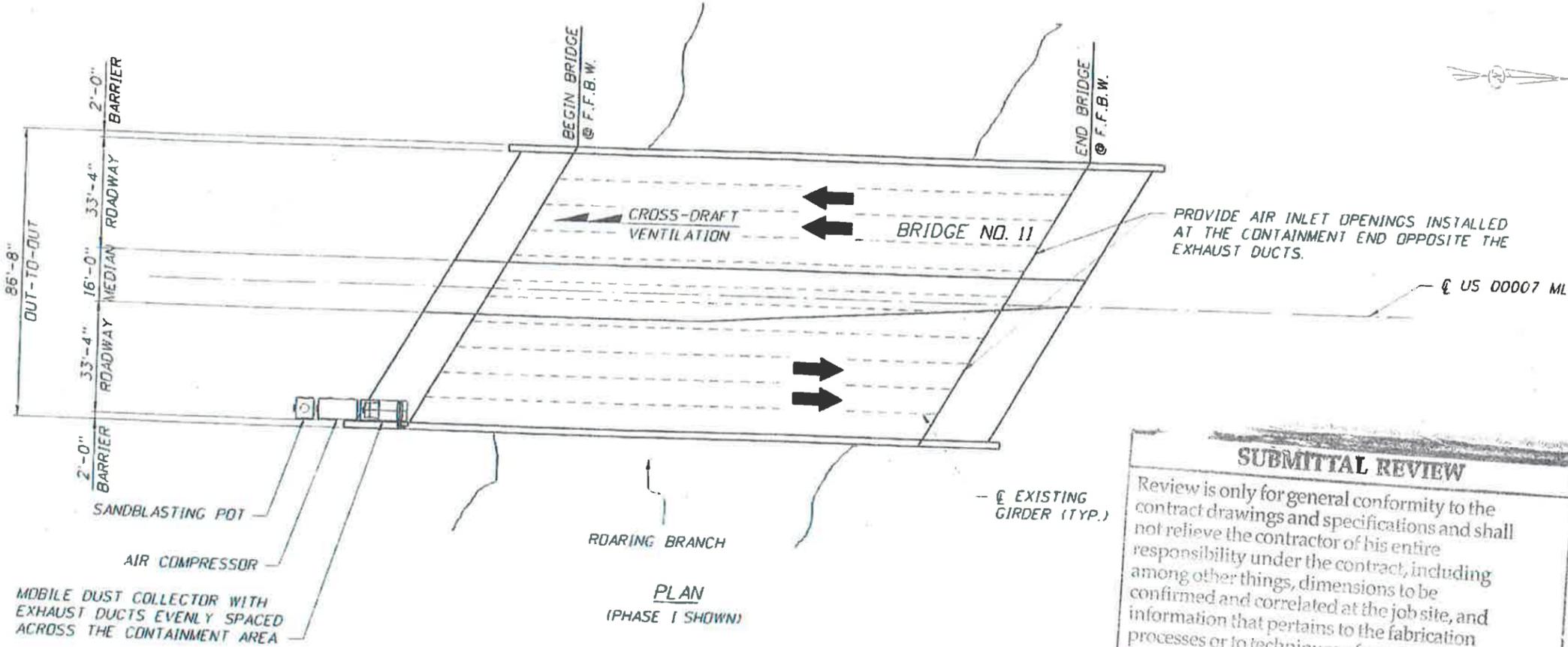


REVISIONS			DRAWN BY GDN 11/15	CHECKED BY PDB 11/15	DATE MAY 11/15	VERMONT AGENCY OF TRANSPORTATION		SHEET TITLE	REF. DWG. NO.
DATE	BY	DESCRIPTION				COUNTY	PROJECT ID		
02/21/16	ARS	GENERAL REVISION				BENNINGTON	BF BPNT (116)	GENERAL NOTES (2 OF 2)	
05/13/16	PRS	GENERAL REVISION				RUTLAND		FIVE BRIDGES ON OR OVER US ROUTE 7	

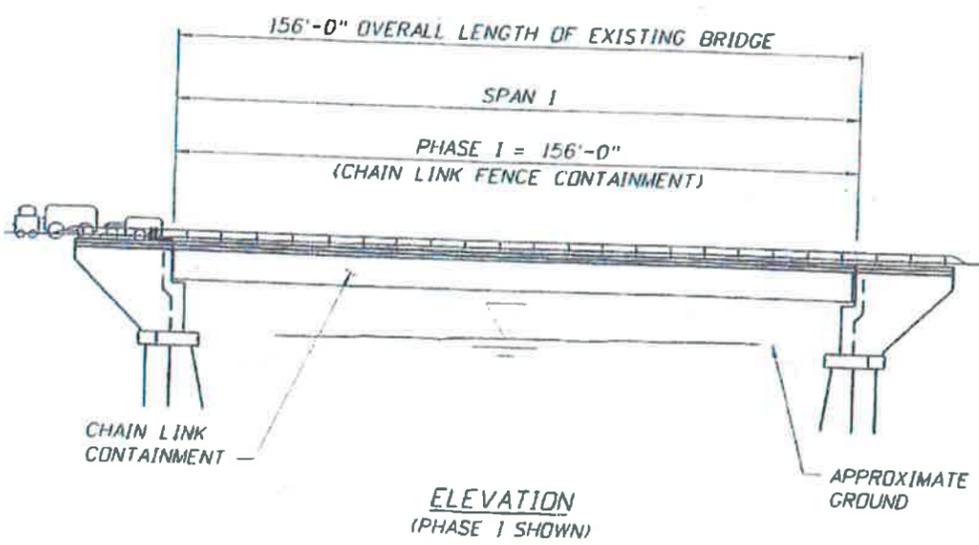
**MONOKO, LLC.**  
 1037 PENINSULA AVENUE  
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 P.E. LICENSE NUMBER 107795  
 A2B ENGINEERING, LLC.  
 5406 N. HOOVER BLVD., SUITE 12  
 TAMPA, FL 33634

Bridge Nos. All



PLAN  
(PHASE I SHOWN)



ELEVATION  
(PHASE I SHOWN)

- NOTES:
1. THESE PLANS WERE PREPARED WITHOUT THE BENEFIT OF AS-BUILT BRIDGE PLANS. THE CONTRACTOR SHALL MAKE ALLOWANCE FOR BRIDGE ELEMENTS AND MODIFICATIONS NOT SHOWN ON THESE PLANS.
  2. WORK PHASE I SHOWN SCHEMATICALLY. REFERENCE MDT PLANS FOR LIMITS OF WORK PHASES.
  3. WORK PHASE I MAY BE WORKED IN ANY ORDER AT THE CONVENIENCE OF THE CONTRACTOR'S MEANS AND METHODS, TRAFFIC PATTERNS AND DENSITY, OR OTHER SITE CHARACTERISTICS THAT INFLUENCE A PREFERRED WORK AREA.
  4. THE CONTRACTOR HAS THE OPTION TO USE ADDITIONAL MOBILE DUST COLLECTORS, OR PLACE LONGITUDINAL OR TRANSVERSE INTERMEDIATE TARPAULIN WALLS.
  5. FOR ADDITIONAL DETAILS, SEE CONTAINMENT MISCELLANEOUS DETAILS SHEETS.

**SUBMITTAL REVIEW**

Review is only for general conformity to the contract drawings and specifications and shall not relieve the contractor of his entire responsibility under the contract, including among other things, dimensions to be confirmed and correlated at the job site, and information that pertains to the fabrication processes or to techniques of construction.

NO EXCEPTIONS TAKEN  
 MAKE CORRECTIONS NOTED  
 RESUBMITTAL NOT REQUIRED  
 AMEND AND RESUBMIT  
 REJECTED - SEE REMARKS

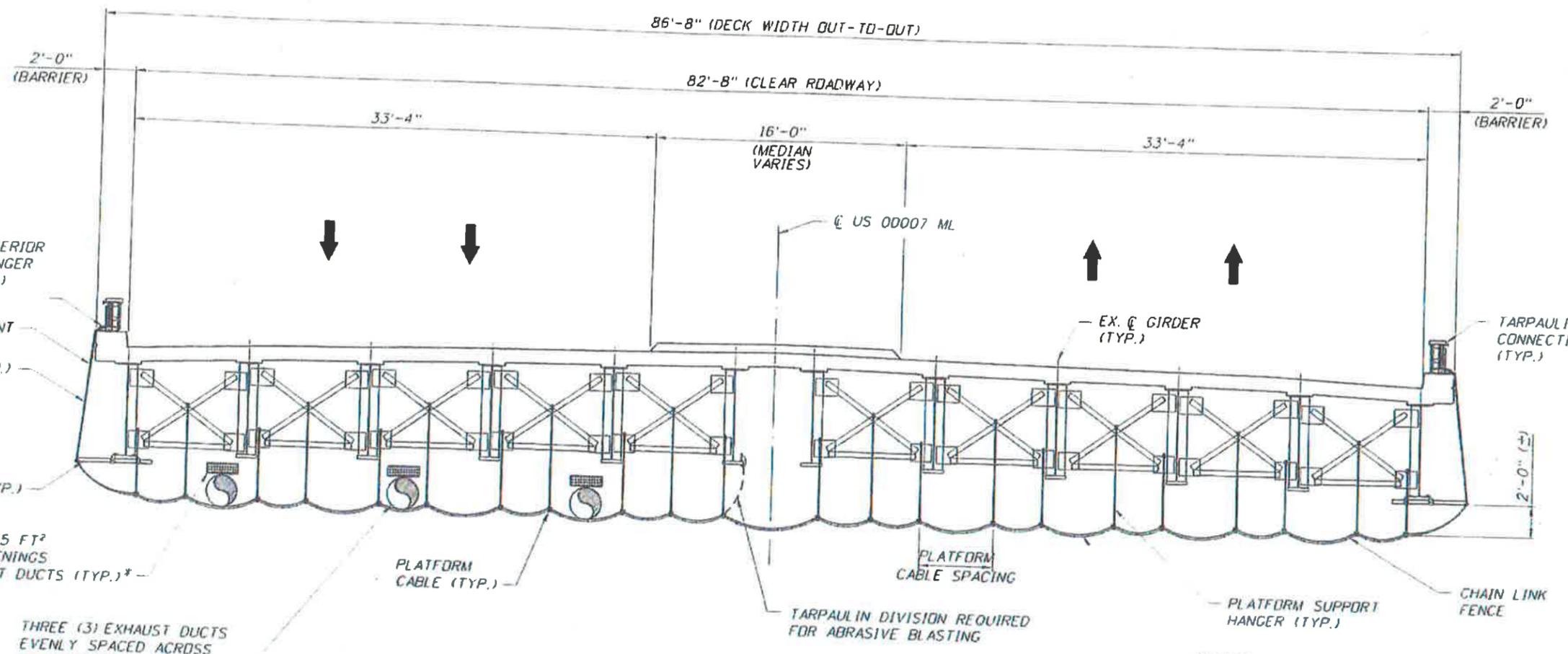
BY: PB AMERICAS, INC.  
8/2 Brynjoltr  
 DATE: 5/9/16

Vermont Agency of Transportation  
**RECEIVED**  
 ON: **May 10, 2016**  
 and Checked for  
**CONFORMANCE**  
 BY: Mark Sargent DATE: 05/13/2016



REVISIONS		PAUL STEJLEN P.E. P.E. LICENSE NUMBER 107795 A2B ENGINEERING, LLC. 5405 N. HOOVER BLVD., SUITE 12 TAMPA, FL 33634	MONOKO, LLC. 1037 PENINSULA AVENUE TARPOON SPRINGS, FL 34689 PHONE (727) 940-3244 FAX (727) 279-8795	DRAWN BY BDN 11/15 CHECKED BY PDB 11/15 DESIGNED BY MAT 11/15 CHECKED BY PRS 11/15	VERMONT AGENCY OF TRANSPORTATION			SHEET TITLE <b>PLAN &amp; ELEVATION</b>	PROJECT NAME <b>FIVE BRIDGES ON OR OVER US ROUTE 7</b>	REF. DWG. NO.
DATE	BY				ROAD NO.	COUNTY	PROJECT ID			
					BENNINGTON	BF BPNT (116)				
									SHEET NO. C-4	

P:\107 Monoko, LLC\17 Bennington-III Tabo\1 Containment\Plans\Cadd\B1PlanElev.dgn



TYPICAL SECTION  
(MOBILE DUST COLLECTOR NOT SHOWN FOR CLARITY)

\* BASED ON MAXIMUM CONTAINMENT AREA OF 450 FT² AS MEASURED PERPENDICULAR TO THE DIRECTION OF CROSS-DRAFT (SEE VENTILATION SYSTEM TABLE ON GENERAL NOTES SHEETS)

- NOTES:
1. THESE PLANS WERE PREPARED WITHOUT THE BENEFIT OF AS-BUILT BRIDGE PLANS. THE CONTRACTOR SHALL MAKE ALLOWANCE FOR BRIDGE ELEMENTS AND MODIFICATIONS NOT SHOWN ON THESE PLANS.
  2. THE CONTRACTOR SHALL AVOID ATTACHING/CONNECTING TO BRIDGE ELEMENTS EXHIBITING SIGNIFICANT SECTION LOSS.
  3. FOR ADDITIONAL DETAILS, SEE CONTAINMENT MISCELLANEOUS DETAILS SHEETS.
  4. CONTRACTOR TO PROVIDE LIFE LINES MEETING OSHA 1910.66 APPENDIX C AS REQUIRED.

**SUBMITTAL REVIEW**

Review is only for general conformity to the contract drawings and specifications and shall not relieve the contractor of his entire responsibility under the contract, including among other things, dimensions to be confirmed and correlated at the job site, and information that pertains to the fabrication processes or to techniques of construction.

NO EXCEPTIONS TAKEN  
 MAKE CORRECTIONS NOTED RESUBMITTAL NOT REQUIRED  
 AMEND AND RESUBMIT  
 REJECTED - SEE REMARKS

PB AMERICAS, INC.  
 BY: *[Signature]*  
 DATE: *5/9/16*

CONTAINMENT PLATFORM CONSTRUCTED W/CHAIN LINK FENCE HAVING A 2" MESH & 9 GAUGE WIRE. SECURE FENCE TO CABLE WITH 1/4" Ø ROPE TIES OR CABLE CLIPS, SEE CHAIN LINK FENCE LAYOUT DETAIL.



Vermont Agency of Transportation  
**RECEIVED**  
 ON: **May 10, 2016**  
 and Checked for  
**CONFORMANCE**  
 BY: Mark Sargent DATE: 05/13/2016

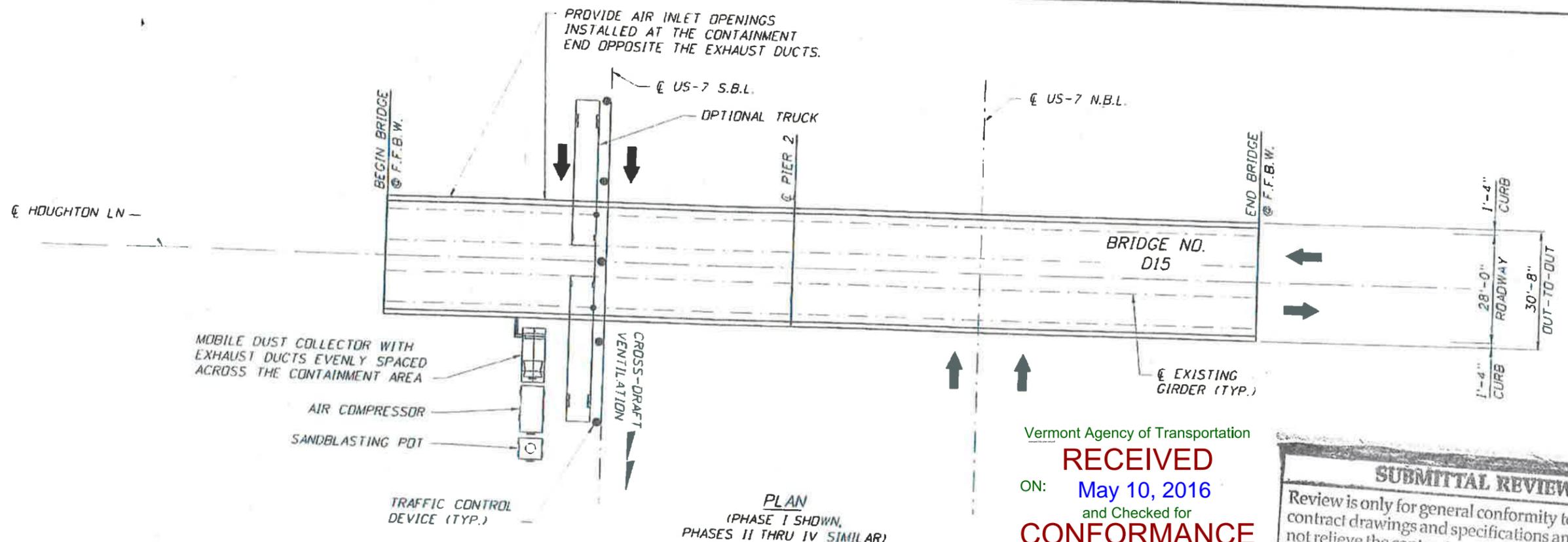
REVISIONS		DATE	BY	DESCRIPTION	DRAWN BY BDN 11/15	CHECKED BY PDB 11/15	DESIGNED BY MAT 11/15	CHECKED BY PRS 11/15	VERMONT AGENCY OF TRANSPORTATION			SHEET TITLE CONTAINMENT SECTION DETAILS	REF. DWG. NO.
DATE	BY								ROAD NO.	COUNTY	PROJECT ID		
									BENNINGTON	BF BPNT 1161	FIVE BRIDGES ON OR OVER US ROUTE 7	C-5	

PAUL STEJLEN P.E.  
 P.E. LICENSE NUMBER 107795  
 A2B ENGINEERING, LLC.  
 5406 N. HOOVER BLVD., SUITE 12  
 TAMPA, FL 33634

MONOKO, LLC.  
 1037 PENINSULA AVENUE  
 TARPON SPRINGS, FL 34689  
 PHONE (727) 940-3244  
 FAX (727) 279-8795

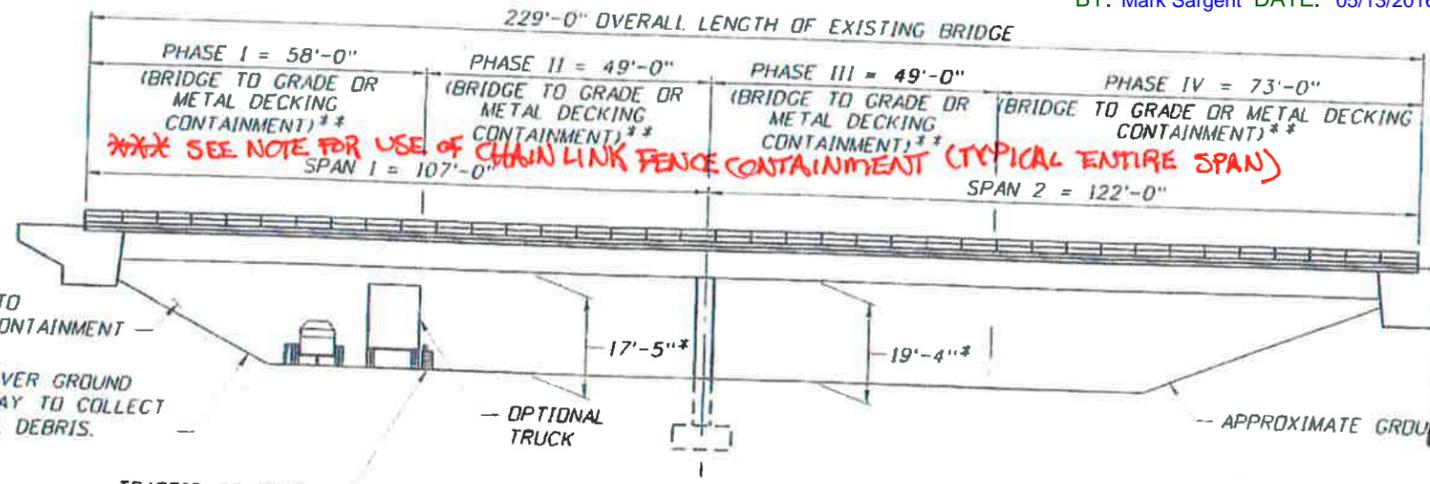
Bridge No. 11

P:\107 Monoko, LLC\17 Bennington-III Tabou\1 Containment Plans\Cadd\011typ.a101.dgn



**PLAN**  
(PHASE I SHOWN, PHASES II THRU IV SIMILAR)

Vermont Agency of Transportation  
**RECEIVED**  
 ON: **May 10, 2016**  
 and Checked for  
**CONFORMANCE**  
 BY: Mark Sargent DATE: 05/13/2016



**ELEVATION**  
(PHASE I SHOWN, PHASES II THRU IV SIMILAR)

**SUBMITTAL REVIEW**

Review is only for general conformity to the contract drawings and specifications and shall not relieve the contractor of his entire responsibility under the contract, including among other things, dimensions to be confirmed and correlated at the job site, and information that pertains to the fabrication processes or to techniques of construction.

NO EXCEPTIONS TAKEN

MAKE CORRECTIONS NOTED

RESUBMITTAL NOT REQUIRED

AMEND AND RESUBMIT

REJECTED - SEE REMARKS

BY: **PB AMERICAS, INC.**  
*8/8 Baxington*

DATE: **5/9/16**

- NOTES:
1. THESE PLANS WERE PREPARED WITHOUT THE BENEFIT OF AS-BUILT BRIDGE PLANS. THE CONTRACTOR SHALL MAKE ALLOWANCE FOR BRIDGE ELEMENTS AND MODIFICATIONS NOT SHOWN ON THESE PLANS.
  2. WORK PHASES I-IV SHOWN SCHEMATICALLY. REFERENCE NOT PLANS FOR LIMITS OF WORK PHASES.
  3. WORK PHASES I-IV MAY BE WORKED IN ANY ORDER AT THE CONVENIENCE OF THE CONTRACTOR'S MEANS AND METHODS, TRAFFIC PATTERNS AND DENSITY, OR OTHER SITE CHARACTERISTICS THAT INFLUENCE A PREFERRED WORK AREA.
  4. THE CONTRACTOR HAS THE OPTION TO USE ADDITIONAL MOBILE DUST COLLECTORS, OR PLACE LONGITUDINAL OR TRANSVERSE INTERMEDIATE TARPULIN WALL.
  5. FOR ADDITIONAL DETAILS, SEE CONTAINMENT MISCELLANEOUS DETAILS SHEETS.

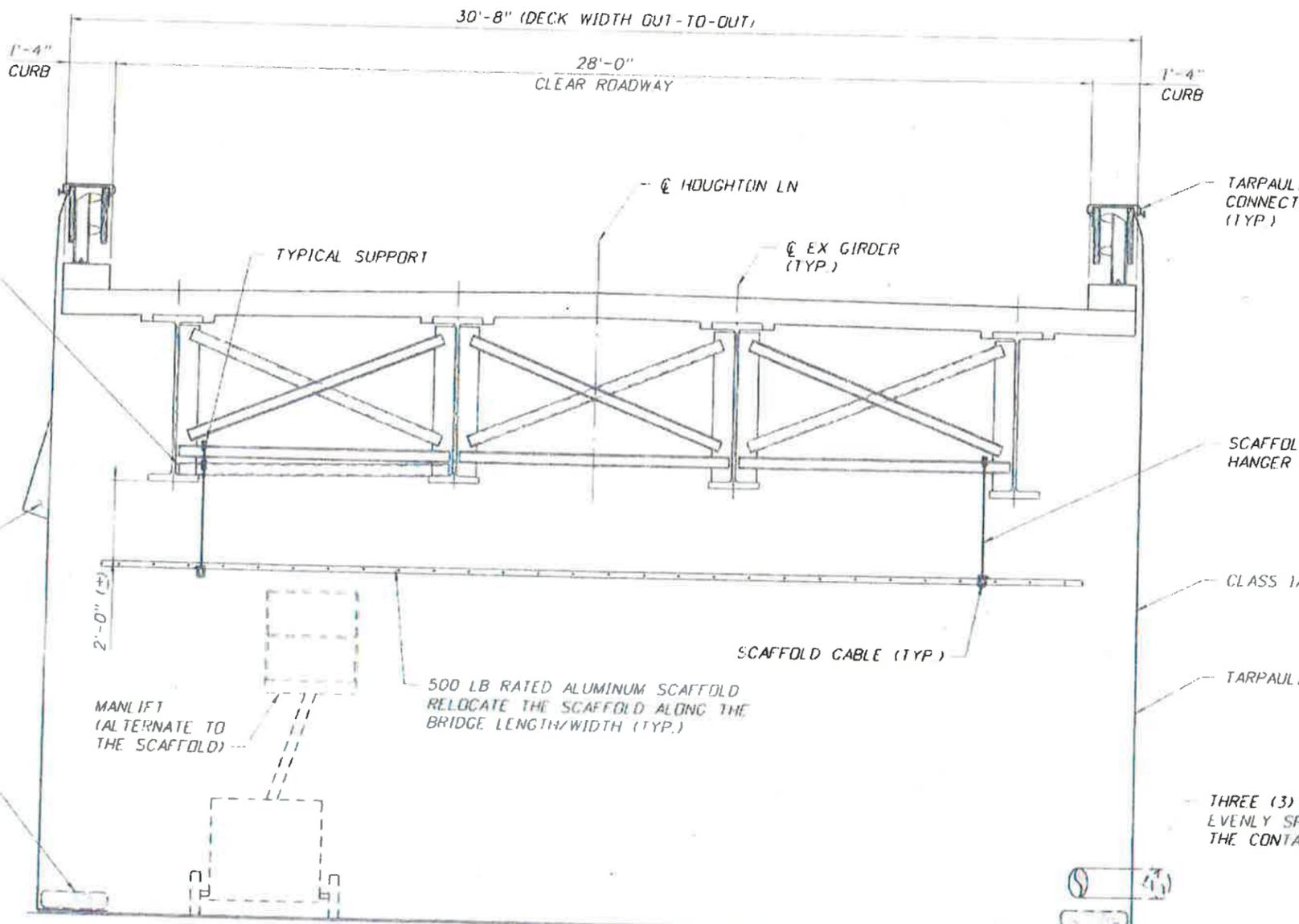
**\*\*\* USE OF CHAIN LINK FENCE CONTAINMENT IS NOT ALLOWED IN AREAS OVER LIVE TRAFFIC, BUT MAY BE USED ELSEWHERE.**

\* EXISTING MINIMUM VERTICAL CLEARANCE BASED ON EXISTING BRIDGE PLANS. CONTRACTOR SHALL OBTAIN APPROVAL FOR REDUCTION OF EXISTING VERTICAL CLEARANCE AND RAISE CABLES AS NEEDED OVER ACTIVE ROADWAY.

\*\* CONTRACTOR MAY USE BRIDGE-TO-GRADE OPTION FOR PRESSURE WASHING OPERATIONS AND METAL DECKING CONTAINMENT FOR ABRASIVE BLASTING OPERATIONS.



REVISIONS			DATE	BY	DESCRIPTION	DRAWN BY: BDN 11/15	CHECKED BY: POB 11/15	VERMONT AGENCY OF TRANSPORTATION			SHEET TITLE: PLAN & ELEVATION	REF. DIV. NO.
DATE	BY	DESCRIPTION						ROAD I.D.	COUNTY	PROJECT ID		
								BEANINGTON	BF BPNT (16)		FIVE BRIDGES ON OR OVER US ROUTE 7	
PAUL STEIJLEN P.E. P.E. LICENSE NUMBER 107795 A2B ENGINEERING, LLC. 5406 N. HOOVER BLVD., SUITE 12 TAMPA, FL 33634						<b>MONOKO, LLC.</b> 1037 PENINSULA AVENUE TARPON SPRINGS, FL 34689 PHONE (727) 940-3244 FAX (727) 279-8795						C-6



SUBMITTAL REVIEW	
Review is only for general conformity to the contract drawings and specifications and shall not relieve the contractor of his entire responsibility under the contract, including among other things, dimensions to be confirmed and correlated at the job site, and information that pertains to the fabrication or to techniques of construction.	
<input checked="" type="checkbox"/> NO EXCEPTIONS TAKEN <input type="checkbox"/> MAKE CORRECTIONS NOTED <input type="checkbox"/> RESUBMITTAL NOT REQUIRED <input type="checkbox"/> AMEND AND RESUBMIT <input type="checkbox"/> REJECTED - SEE REMARKS	
PB AMERICAS, INC. BY: <i>Sebastian</i> DATE: <i>5/9/16</i>	

\* BASED ON MAXIMUM CONTAINMENT AREA OF 450 FT² AS MEASURED PERPENDICULAR TO THE DIRECTION OF CROSS-DRAFT (SEE VENTILATION SYSTEM TABLE ON GENERAL NOTES SHEETS)

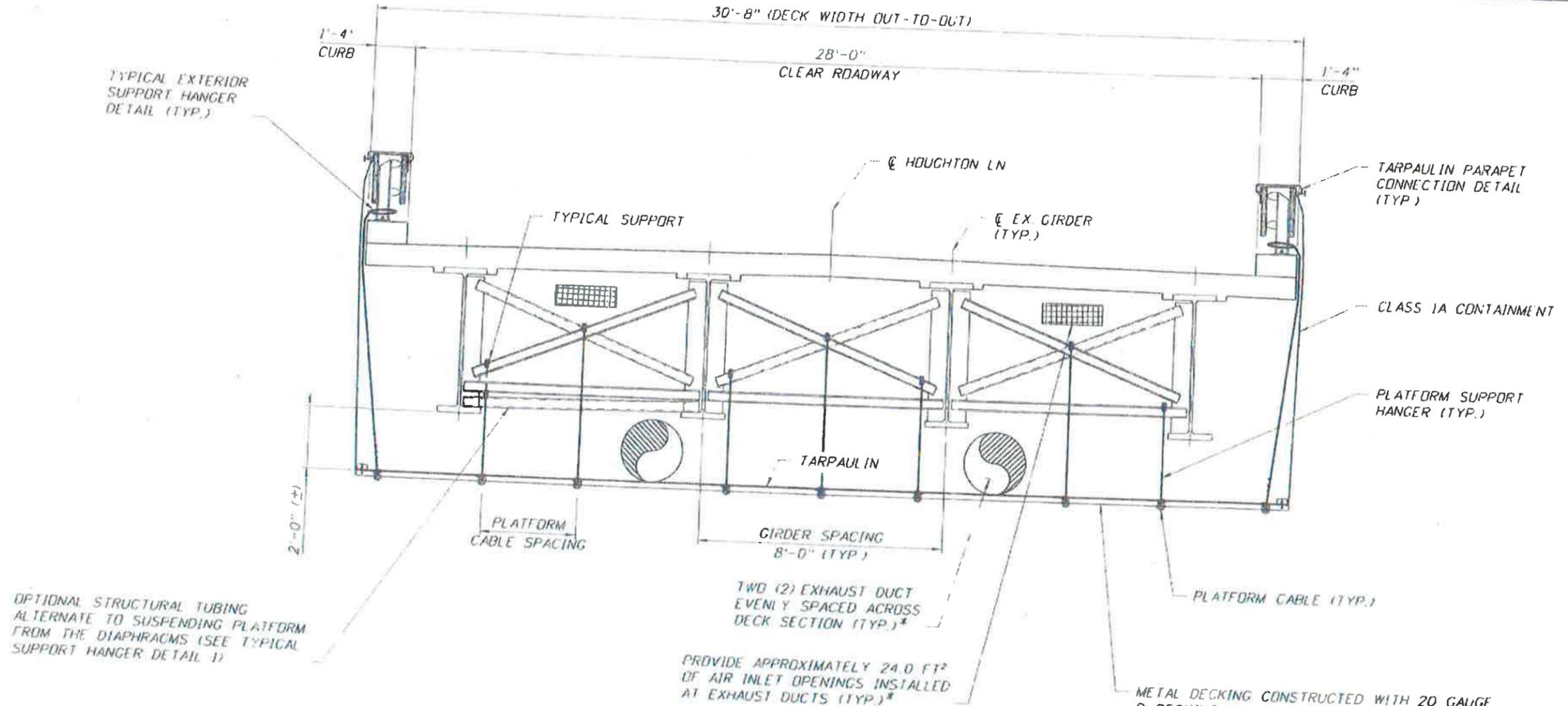
TYPICAL SECTION  
(PHASES I THRU IV)  
(MOBILE DUST COLLECTOR NOT SHOWN FOR CLARITY)

- NOTES:
1. THESE PLANS WERE PREPARED WITHOUT THE BENEFIT OF AS-BUILT BRIDGE PLANS THE CONTRACTOR SHALL MAKE ALLOWANCE FOR BRIDGE ELEMENTS AND MODIFICATIONS NOT SHOWN ON THESE PLANS
  2. THE CONTRACTOR SHALL AVOID ATTACHING/CONNECTING TO BRIDGE ELEMENTS EXHIBITING SIGNIFICANT SECTION LOSS
  3. FOR ADDITIONAL DETAILS, SEE CONTAINMENT MISCELLANEOUS DETAILS SHEETS.
  4. CONTRACTOR TO PROVIDE LIFE LINES MEETING OSHA 1910.66 APPENDIX C AS REQUIRED
  5. TARPULINS SHALL BE REMOVED AND ROLLED UP DURING NON-WORKING HOURS.

Vermont Agency of Transportation  
**RECEIVED**  
 ON: **May 10, 2016**  
 and Checked for  
**CONFORMANCE**  
 BY: Mark Sargent DATE: 05/13/2016



REVISIONS		DATE	BY	DESCRIPTION	DRAWN BY	CHECKED BY	DESIGNED BY	CHECKED BY	VERMONT AGENCY OF TRANSPORTATION			PROJECT NAME	SHEET NO.
DATE	BY								ROAD NO.	COUNTY	PROJECT ID		
05/05/16	FRS			GENERAL REVISION	BDN 11/15	PDB 11/15	MAT 11/15	FRS 11/15					
PAUL STEJLEN P.E. P.E. LICENSE NUMBER 107795 A2B ENGINEERING, LLC. 5406 N. HOOVER BLVD., SUITE 12 TAMPA, FL 33634					<b>MONOKO, LLC.</b> 1037 PENINSULA AVENUE TARPON SPRINGS, FL 34689 PHONE (727) 940-3244 FAX (727) 279-8795					BRIDGE NO. D15 <b>CONTAINMENT SECTION DETAILS (1 OF 3)</b>			FIVE BRIDGES ON OR OVER US ROUTE 7 C-7



OPTIONAL STRUCTURAL TUBING ALTERNATE TO SUSPENDING PLATFORM FROM THE DIAPHRAGMS (SEE TYPICAL SUPPORT HANGER DETAIL 1)

TWO (2) EXHAUST DUCT EVENLY SPACED ACROSS DECK SECTION (TYP.)\*

PROVIDE APPROXIMATELY 24.0 FT² OF AIR INLET OPENINGS INSTALLED AT EXHAUST DUCTS (TYP.)\*

METAL DECKING CONSTRUCTED WITH 20 GAUGE B-DECKING FOR PLATFORM CABLE SPACING LESS THAN 5'-6" OR 18 GAUGE B-DECKING FOR PLATFORM CABLE SPACING UP TO 5'-6". METAL DECKING SHALL MEET ASTM SPECIFICATION A653.

TYPICAL SECTION  
(PHASES I THRU IV)  
(MOBILE DUST COLLECTOR NOT SHOWN FOR CLARITY)

\* BASED ON MAXIMUM CONTAINMENT AREA OF 240 FT² AS MEASURED PERPENDICULAR TO THE DIRECTION OF CROSS-DRAFT (SEE VENTILATION SYSTEM TABLE ON GENERAL NOTES SHEETS)

- NOTES:
1. THESE PLANS WERE PREPARED WITHOUT THE BENEFIT OF AS-BUILT BRIDGE PLANS. THE CONTRACTOR SHALL MAKE ALLOWANCE FOR BRIDGE ELEMENTS AND MODIFICATIONS NOT SHOWN ON THESE PLANS.
  2. THE CONTRACTOR SHALL AVOID ATTACHING/CONNECTING TO BRIDGE ELEMENTS EXHIBITING SIGNIFICANT SECTION LOSS.
  3. FOR ADDITIONAL DETAILS, SEE CONTAINMENT MISCELLANEOUS DETAILS SHEETS.
  4. CONTRACTOR TO PROVIDE LIFE LINES MEETING OSHA 1910.66 APPENDIX C AS REQUIRED.

Vermont Agency of Transportation  
**RECEIVED**  
ON: **May 10, 2016**  
and Checked for  
**CONFORMANCE**  
BY: Mark Sargent DATE: 05/13/2016

SUBMITTAL REVIEW	
Review is only for general conformity to the contract drawings and specifications and shall not relieve the contractor of his entire responsibility under the contract, including among other things, dimensions to be confirmed and correlated at the job site, and information that pertains to the fabrication processes or to techniques of construction.	
<input checked="" type="checkbox"/>	NO EXCEPTIONS TAKEN
<input type="checkbox"/>	MAKE CORRECTIONS NOTED
RESUBMITTAL NOT REQUIRED	
<input type="checkbox"/>	AMEND AND RESUBMIT
<input type="checkbox"/>	REJECTED - SEE REMARKS
BY: <b>PB AMERICAS, INC.</b>	
DATE:	<b>5/1/16</b>



REVISIONS		DESCRIPTION	DATE	BY
05/05/16	FSJ			

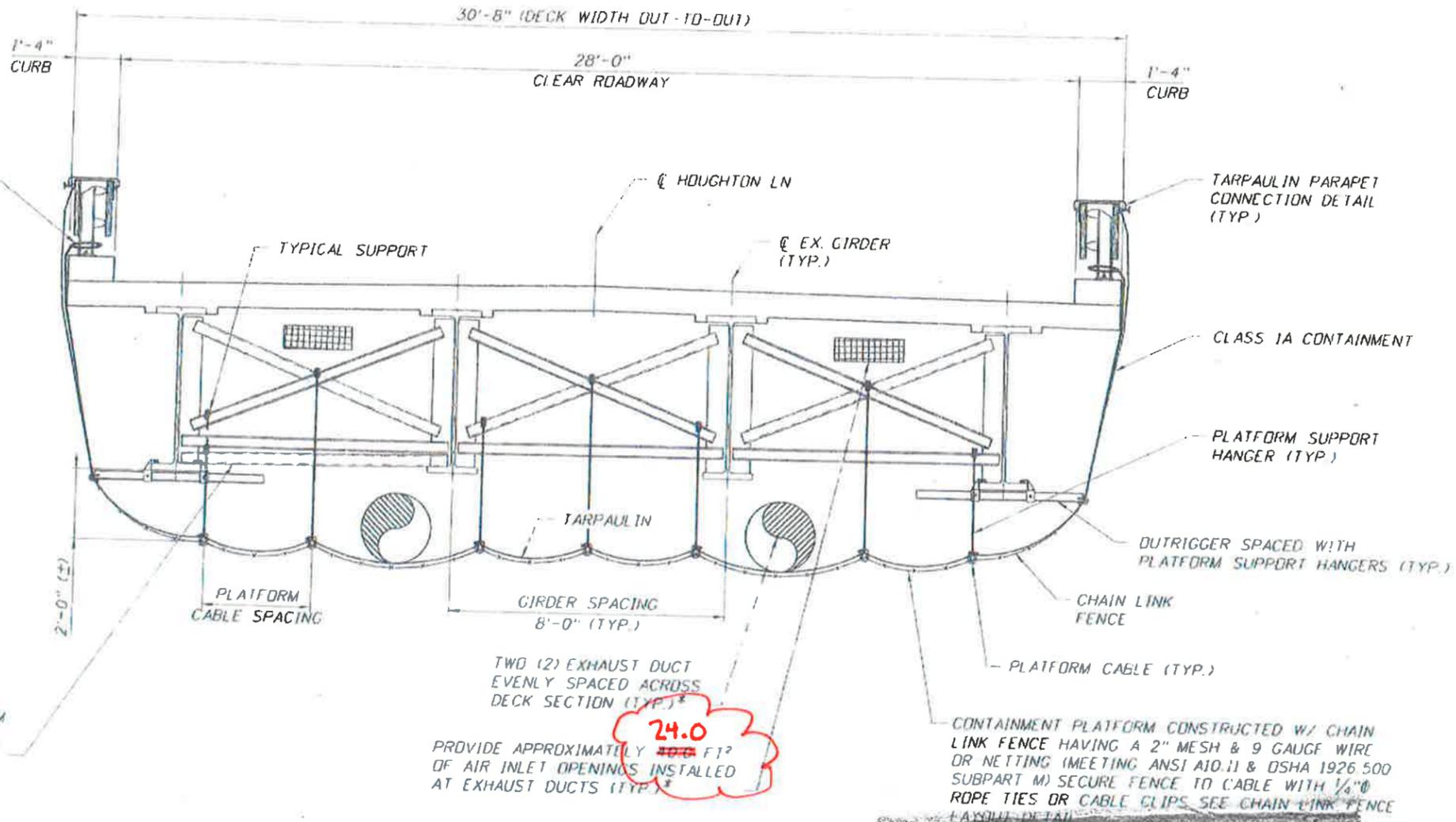
PAUL STEJLEN P.E. P.E. LICENSE NUMBER 107795 A2B ENGINEERING, LLC. 5406 N. HOOVER BLVD., SUITE 12 TAMPA, FL 33634	<b>MONOKO, LLC.</b> 1037 PENINSULA AVENUE TARPON SPRINGS, FL 34689 PHONE (727) 940-3244 FAX (727) 279-8795	DRAWN BY: BDN 11/15 CHECKED BY: PDB 11/15 DESIGNED BY: MAT 11/15 CHECKED BY: PRS 11/15	VERMONT AGENCY OF TRANSPORTATION	ROAD NO: COLONY: PROJECT ID: PROJECT NAME: <b>BEWINGTON BF BPNT 116</b>	BRIDGE NO: <b>D15</b>	REF. DWG. NO: SHEET NO: <b>C-B</b>
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CONTAINMENT SECTION DETAILS (2 OF 3)

FIVE BRIDGES ON OR OVER US ROUTE 7

5/5/2016 2:08:29 PM

TYPICAL EXTERIOR SUPPORT HANGER DETAIL (TYP.)



OPTIONAL STRUCTURAL TUBING ALTERNATE TO SUSPENDING PLATFORM FROM THE DIAPHRAGMS (SEE TYPICAL SUPPORT HANGER DETAIL 1)

TWO (2) EXHAUST DUCT EVENLY SPACED ACROSS DECK SECTION (TYP.)  
 PROVIDE APPROXIMATELY ~~20.0~~ **24.0** FT<sup>2</sup> OF AIR INLET OPENINGS INSTALLED AT EXHAUST DUCTS (TYP.)

CONTAINMENT PLATFORM CONSTRUCTED W/ CHAIN LINK FENCE HAVING A 2" MESH & 9 GAUGE WIRE OR NETTING (MEETING ANSI A10.11 & OSHA 1926.500 SUBPART M) SECURE FENCE TO CABLE WITH 1/4" ROPE TIES OR CABLE CLIPS SEE CHAIN LINK FENCE LAYOUT DETAIL

\* BASED ON MAXIMUM CONTAINMENT AREA OF 240 FT<sup>2</sup> AS MEASURED PERPENDICULAR TO THE DIRECTION OF CROSS-DRAFT (SEE VENTILATION SYSTEM TABLE ON GENERAL NOTES SHEETS)

NOTES:

1. THESE PLANS WERE PREPARED WITHOUT THE BENEFIT OF AS-BUILT BRIDGE PLANS. THE CONTRACTOR SHALL MAKE ALLOWANCE FOR BRIDGE ELEMENTS AND MODIFICATIONS NOT SHOWN ON THESE PLANS
2. THE CONTRACTOR SHALL AVOID ATTACHING/CONNECTING TO BRIDGE ELEMENTS EXHIBITING SIGNIFICANT SECTION LOSS
3. FOR ADDITIONAL DETAILS, SEE CONTAINMENT MISCELLANEOUS DETAILS SHEETS.
4. CONTRACTOR TO PROVIDE LIFE LINES MEETING OSHA 1910.66 APPENDIX C AS REQUIRED

TYPICAL SECTION  
 (PHASES I THRU IV)  
 (MOBILE DUST COLLECTOR NOT SHOWN FOR CLARITY)

Vermont Agency of Transportation  
**RECEIVED**  
 ON: **May 10, 2016**  
 and Checked for  
**CONFORMANCE**  
 BY: Mark Sargent DATE: 05/13/2016

SUBMITTAL REVIEW	
Review is only for general conformity to the contract drawings and specifications and shall not relieve the contractor of his entire responsibility under the contract, including among other things, dimensions to be confirmed and correlated at the job site, and information that pertains to the fabrication processes or to techniques of construction.	
<input type="checkbox"/>	NO EXCEPTIONS TAKEN
<input checked="" type="checkbox"/>	MAKE CORRECTIONS NOTED RESUBMITTAL NOT REQUIRED
<input type="checkbox"/>	AMEND AND RESUBMIT
<input type="checkbox"/>	REJECTED - SEE REMARKS
BY: <b>PB AMERICAS, INC.</b> <i>Mark Sargent</i>	
DATE: <b>5/11/16</b>	



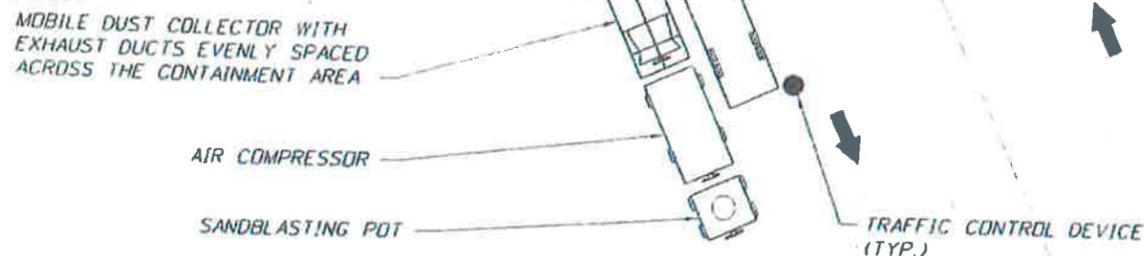
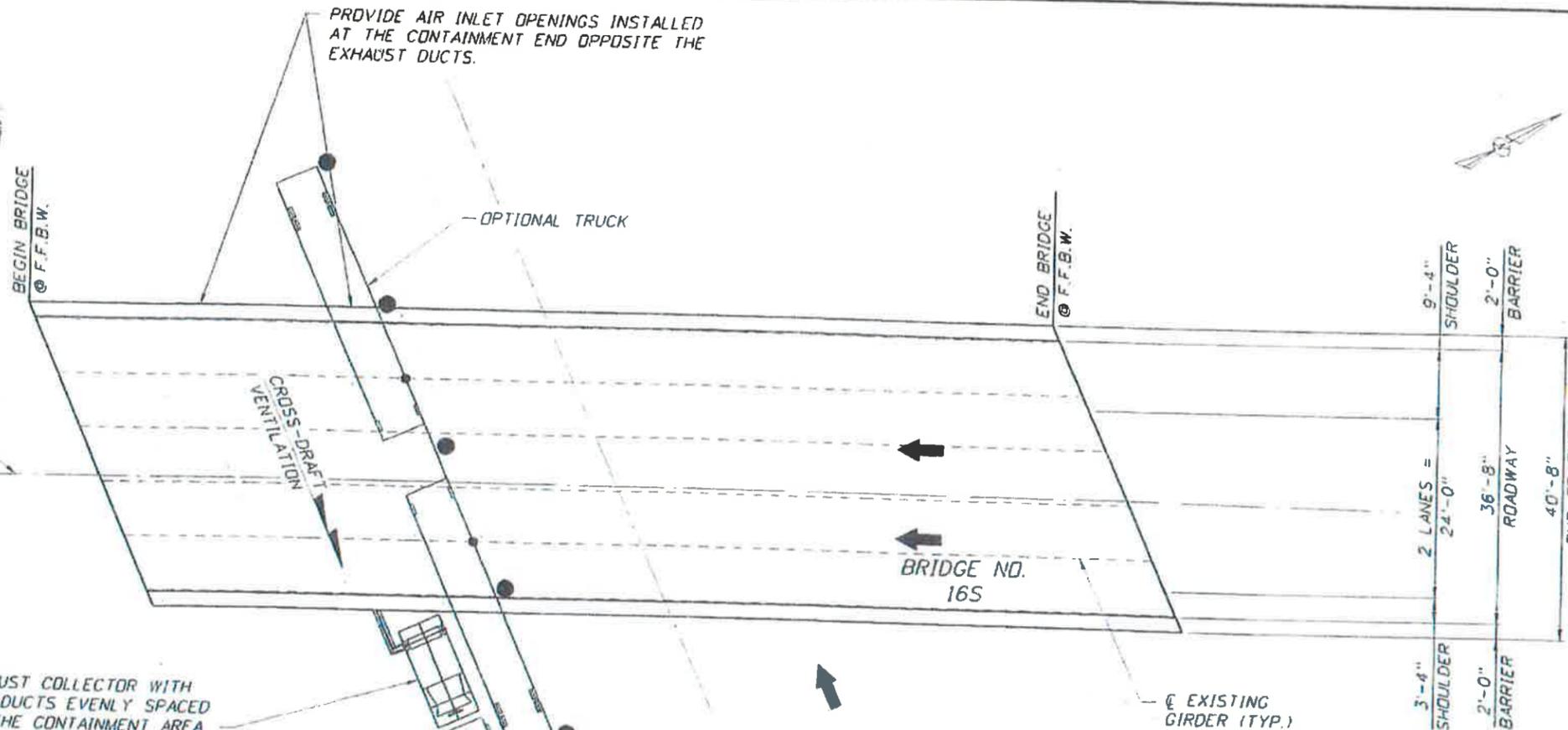
<b>REVISIONS</b> DATE BY DESCRIPTION 05/05/16 PR. GENERAL REVISION		PAUL STENLEN P.E. P.E. LICENSE NUMBER 107795 A2B ENGINEERING, LLC. 5406 N. HOOVER BLVD., SUITE 12 TAMPA, FL 33634	MONOKO, LLC. 1037 PENINSULA AVENUE TARPON SPRINGS, FL 34689 PHONE (727) 940-3244 FAX (727) 279-8795	DRAWN BY: BON 11/15 CHECKED BY: P26 11/15 DESIGNED BY: MAT 11/15 CHECKED BY: PRS 11/15	VERMONT AGENCY OF TRANSPORTATION ROAD NO. COUNTY PROJECT ID PROJECT NAME BENNINGTON BF BPNT 116 FIVE BRIDGES ON OR OVER US ROUTE 7	SHEET TITLE: CONTAINMENT SECTION DETAILS (3 OF 3) REF. DWG NO. SHEET NO. C-8A
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**SUBMITTAL REVIEW**

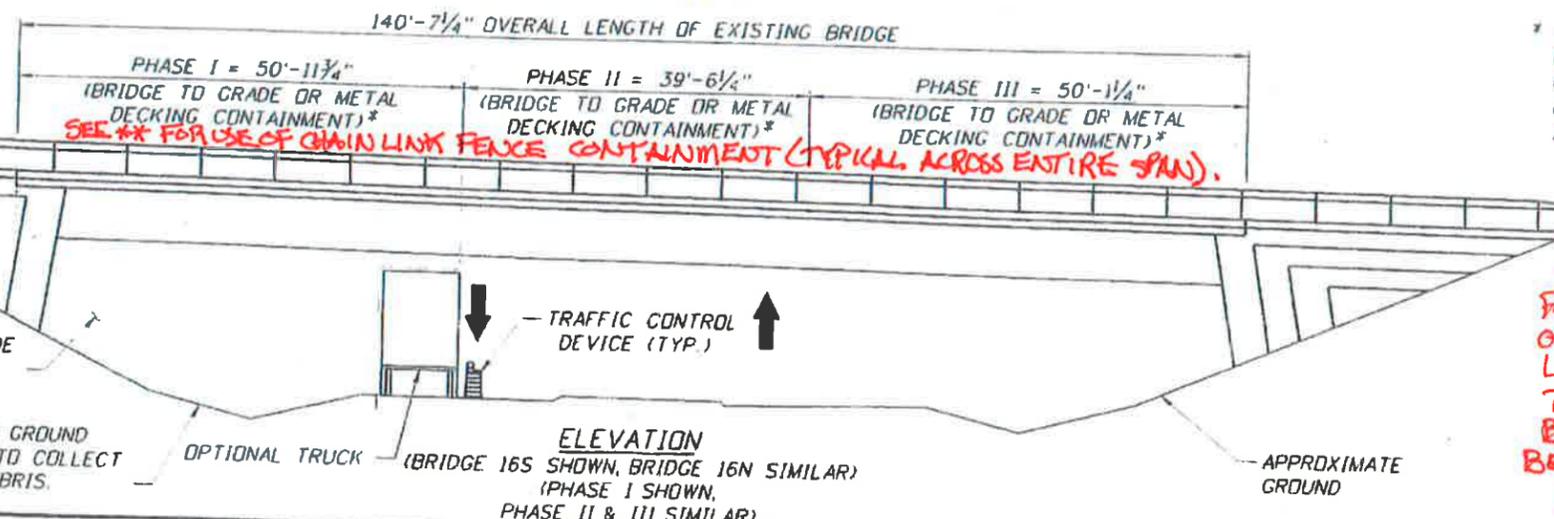
Review is only for general conformity to the contract drawings and specifications and shall not relieve the contractor of his entire responsibility under the contract, including among other things, dimensions to be confirmed and correlated at the job site, and information that pertains to the fabrication processes or to techniques of construction.

- NO EXCEPTIONS TAKEN
- MAKE CORRECTIONS NOTED US 7 - RESUBMITTAL NOT REQUIRED
- AMEND AND RESUBMIT
- REJECTED - SEE REMARKS

BY: *St. Bayington*  
 DATE: *5/9/16*



PLAN  
 (BRIDGE 16S SHOWN, BRIDGE 16N SIMILAR)  
 (PHASE I SHOWN, PHASE II & III SIMILAR)



ELEVATION  
 (BRIDGE 16S SHOWN, BRIDGE 16N SIMILAR)  
 (PHASE I SHOWN, PHASE II & III SIMILAR)

- NOTES:
- THESE PLANS WERE PREPARED WITHOUT THE BENEFIT OF AS-BUILT BRIDGE PLANS. THE CONTRACTOR SHALL MAKE ALLOWANCE FOR BRIDGE ELEMENTS AND MODIFICATIONS NOT SHOWN ON THESE PLANS.
  - WORK PHASES I-III SHOWN SCHEMATICALLY. REFERENCE MOT PLANS FOR LIMITS OF WORK PHASES.
  - WORK PHASES I-III MAY BE WORKED IN ANY ORDER AT THE CONVENIENCE OF THE CONTRACTOR'S MEANS AND METHODS, TRAFFIC PATTERNS AND DENSITY, OR OTHER SITE CHARACTERISTICS THAT INFLUENCE A PREFERRED WORK AREA.
  - THE CONTRACTOR HAS THE OPTION TO USE ADDITIONAL MOBILE DUST COLLECTORS, OR PLACE LONGITUDINAL OR TRANSVERSE INTERMEDIATE TARPULIN WALL.
  - FOR ADDITIONAL DETAILS, SEE CONTAINMENT MISCELLANEOUS DETAILS SHEETS.

Vermont Agency of Transportation

**RECEIVED**

ON: **May 10, 2016**

and Checked for

**CONFORMANCE**

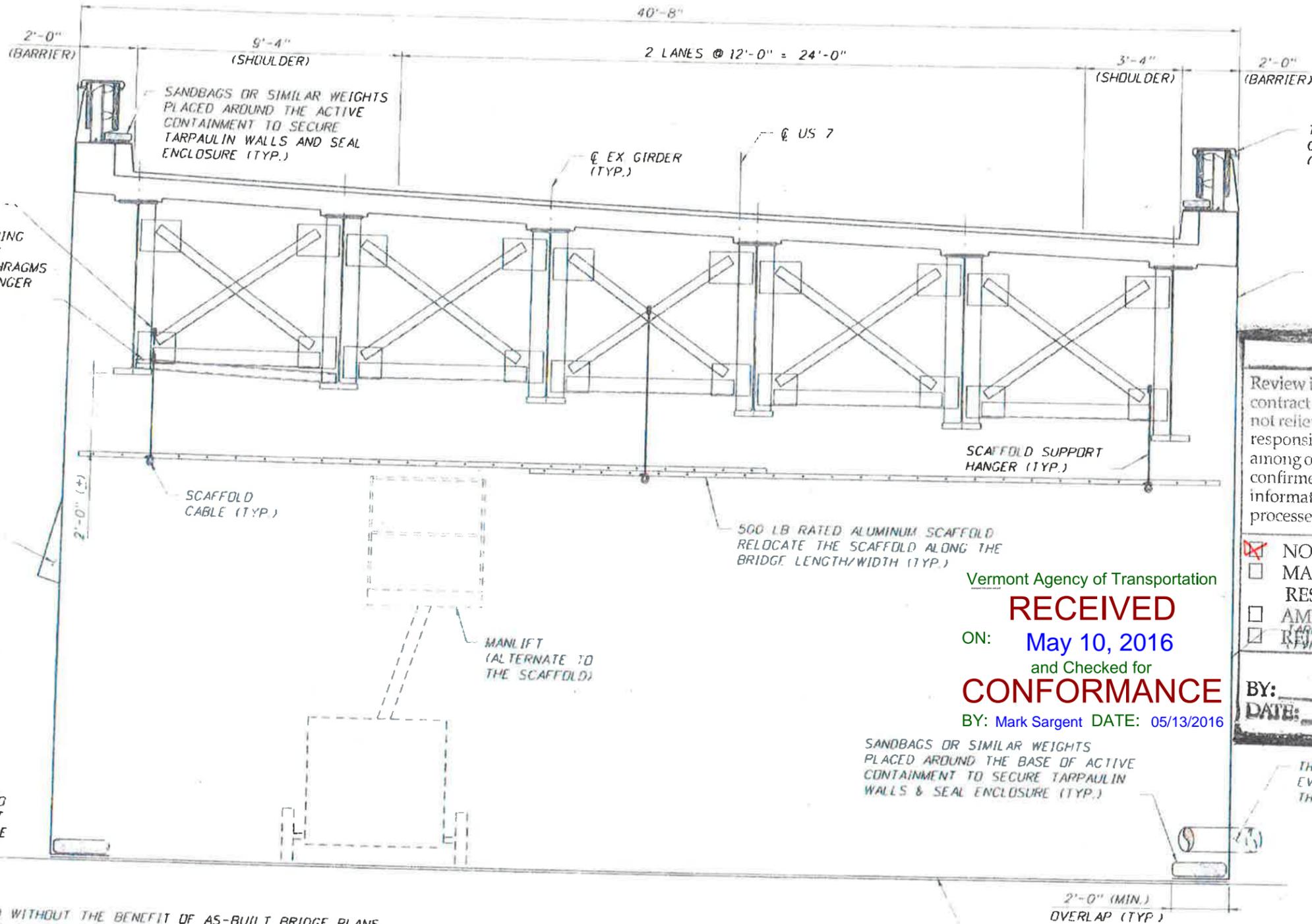
BY: Mark Sargent DATE: 05/13/2016

\* CONTRACTOR MAY USE BRIDGE-TO-GRADE OPTION FOR PRESSURE WASHING OPERATIONS AND METAL DECKING CONTAINMENT FOR ABRASIVE BLASTING OPERATIONS.

**\*\* USE OF CHAIN LINK FENCE CONTAINMENT IS NOT ALLOWED FOR AREAS OVER LIVE TRAFFIC, BUT MAY BE USED ELSEWHERE.**



REVISIONS			DRAWN BY: BDN 11/15	VERMONT AGENCY OF TRANSPORTATION			SHEET TITLE: PLAN & ELEVATION
DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	PROJECT #	
			CHECKED BY: PDB 11/15	BENNINGTON	BF BPNT (16)		Bridge No. 16N & 16S
			DESIGNED BY: MAT 11/15	PROJECT NAME: FIVE BRIDGES ON OR OVER US ROUTE 7			REF. DIV. NO.
			CHECKED BY: PRS 11/15				SHEET NO.
PAUL STEILEN P.E. P.E. LICENSE NUMBER 107795 A2B ENGINEERING, LLC. 5406 N. HOOVER BLVD., SUITE 12 TAMPA, FL 33634			MONOKO, LLC. 1037 PENINSULA AVENUE TARPON SPRINGS, FL 34689 PHONE (727) 840-3244 FAX (727) 278-8795			C-9	



TYPICAL SUPPORT --  
 OPTIONAL STRUCTURAL TUBING  
 ALTERNATE TO SUSPENDING  
 PLATFORM FROM THE DIAPHRAGMS  
 (SEE TYPICAL SUPPORT HANGER  
 DETAIL 1)

APPROXIMATELY 45 FT<sup>2</sup>  
 OF AIR INLET OPENINGS  
 OPPOSITE EXHAUST DUCTS\*

\* BASED ON MAXIMUM  
 CONTAINMENT AREA OF 450 FT<sup>2</sup>  
 AS MEASURED PERPENDICULAR TO  
 THE DIRECTION OF CROSS-DRAFT  
 (SEE VENTILATION SYSTEM TABLE  
 ON GENERAL NOTES SHEETS)

- NOTES:
1. THESE PLANS WERE PREPARED WITHOUT THE BENEFIT OF AS-BUILT BRIDGE PLANS. THE CONTRACTOR SHALL MAKE ALLOWANCE FOR BRIDGE ELEMENTS AND MODIFICATIONS NOT SHOWN ON THESE PLANS.
  2. THE CONTRACTOR SHALL AVOID ATTACHING/CONNECTING TO BRIDGE ELEMENTS EXHIBITING SIGNIFICANT SECTION LOSS.
  3. FOR ADDITIONAL DETAILS, SEE CONTAINMENT MISCELLANEOUS DETAILS SHEETS.
  4. INSPECTIONS SHALL BE PERFORMED FROM MANLIFT.
  5. CONTRACTOR TO PROVIDE LIFE LINES MEETING OSHA 1910.66 APPENDIX C AS REQUIRED.
  6. TARPS SHALL BE REMOVED DURING NON-WORKING HOURS.

TYPICAL SECTION  
 (MOBILE DUST COLLECTOR  
 NOT SHOWN FOR CLARITY)

Vermont Agency of Transportation  
**RECEIVED**  
 ON: **May 10, 2016**  
 and Checked for  
**CONFORMANCE**  
 BY: Mark Sargent DATE: 05/13/2016

SANDBAGS OR SIMILAR WEIGHTS  
 PLACED AROUND THE BASE OF ACTIVE  
 CONTAINMENT TO SECURE TARPULIN  
 WALLS & SEAL ENCLOSURE (TYP.)

100% GROUND TARPULINS  
 PLACED OVER ENTIRE  
 CONTAINMENT AREA TO  
 COLLECT SPENT ABRASIVES

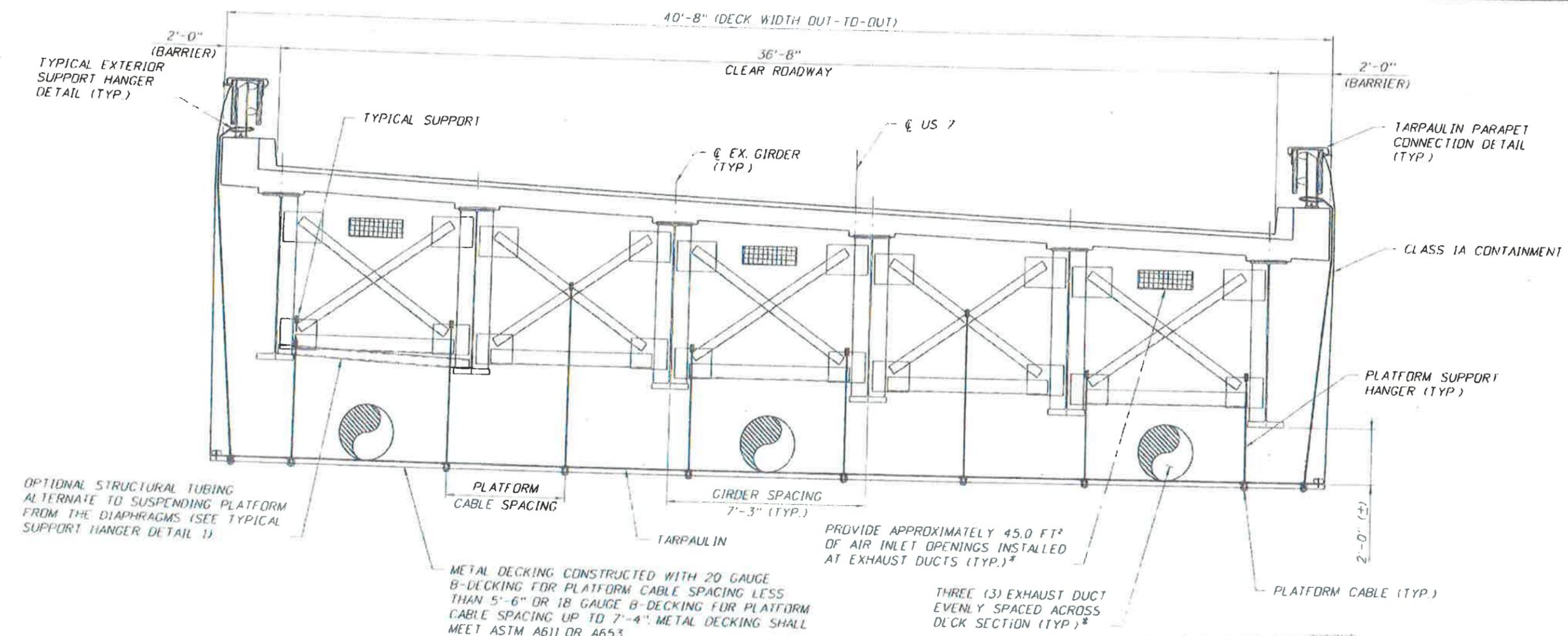
SUBMITTAL REVIEW	
Review is only for general conformity to the contract drawings and specifications and shall not relieve the contractor of his entire responsibility under the contract, including among other things, dimensions to be confirmed and correlated at the job site, and information that pertains to the fabrication processes or to techniques of construction.	
<input checked="" type="checkbox"/>	NO EXCEPTIONS TAKEN
<input type="checkbox"/>	MAKE CORRECTIONS NOTED
<input type="checkbox"/>	RESUBMITTAL NOT REQUIRED
<input type="checkbox"/>	AMEND AND RESUBMIT
<input checked="" type="checkbox"/>	REJECTED - SEE REMARKS
BY: <b>PB AMERICAS, INC.</b> <i>St. Bayington</i>	
DATE:	<b>5/7/16</b>

THREE (3) EXHAUST DUCTS  
 EVENLY SPACED ACROSS  
 THE CONTAINMENT AREA\*



Bridge No. 16N & 16S

REVISIONS		DATE	BY	DESCRIPTION	DRAWN BY	CHECKED BY	DESIGNED BY	VERMONT AGENCY OF TRANSPORTATION	ROAD NO.	COUNTY	PROJECT ID	PROJECT NAME	SHEET TITLE	SHEET NO.
05/05/16	PR.													



\* BASED ON MAXIMUM CONTAINMENT AREA OF 350 FT<sup>2</sup> AS MEASURED PERPENDICULAR TO THE DIRECTION OF CROSS-DRAFT (SEE VENTILATION SYSTEM TABLE ON GENERAL NOTES SHEETS)

**NOTES:**

1. THESE PLANS WERE PREPARED WITHOUT THE BENEFIT OF AS-BUILT BRIDGE PLANS. THE CONTRACTOR SHALL MAKE ALLOWANCE FOR BRIDGE ELEMENTS AND MODIFICATIONS NOT SHOWN ON THESE PLANS
2. THE CONTRACTOR SHALL AVOID ATTACHING/CONNECTING TO BRIDGE ELEMENTS EXHIBITING SIGNIFICANT SECTION LOSS
3. FOR ADDITIONAL DETAILS, SEE CONTAINMENT MISCELLANEOUS DETAILS SHEETS.
4. CONTRACTOR TO PROVIDE LIFE LINES MEETING OSHA 1910.66 APPENDIX C AS REQUIRED.

TYPICAL SECTION  
(PHASES I THRU III)  
(MOBILE DUST COLLECTOR NOT SHOWN FOR CLARITY)

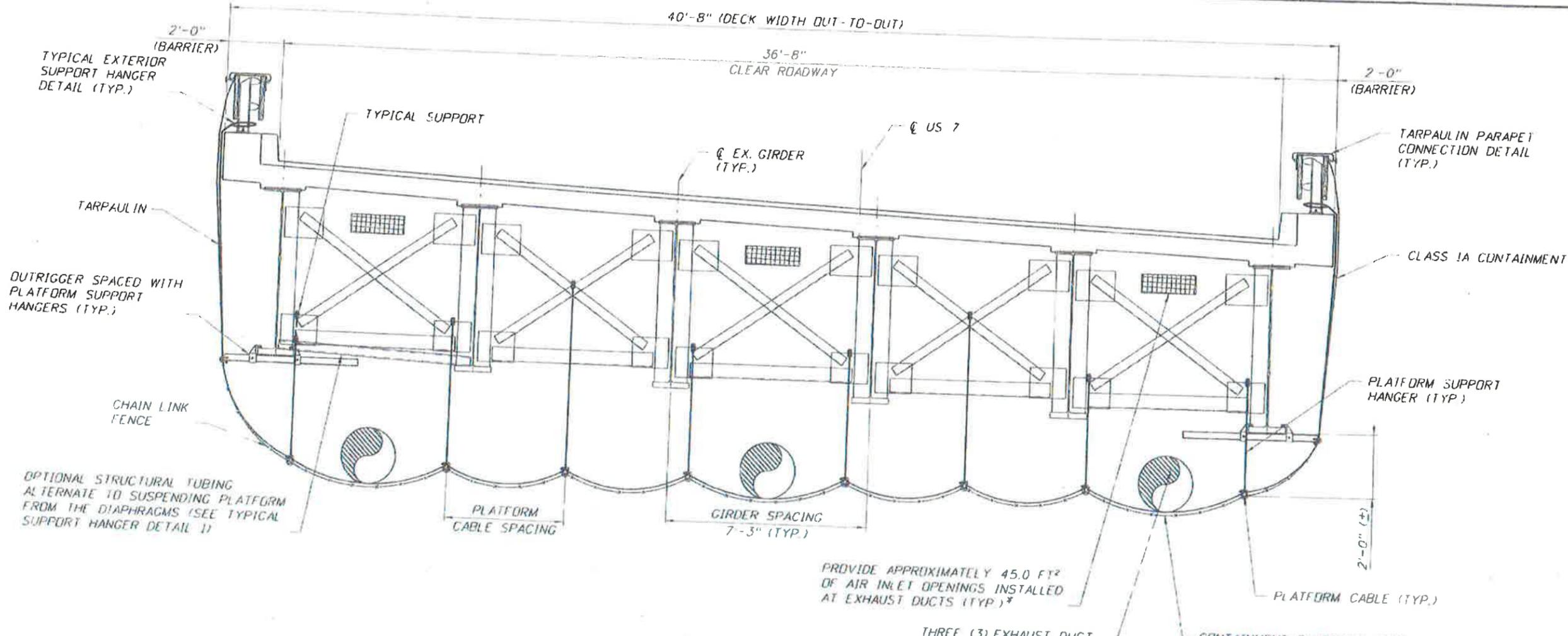
Vermont Agency of Transportation  
**RECEIVED**  
ON: **May 10, 2016**  
and Checked for  
**CONFORMANCE**  
BY: Mark Sargent DATE: 05/13/2016

SUBMITTAL REVIEW	
Review is only for general conformity to the contract drawings and specifications and shall not relieve the contractor of his entire responsibility under the contract, including among other things, dimensions to be confirmed and correlated at the job site, and information that pertains to the fabrication processes or to techniques of construction.	
<input checked="" type="checkbox"/>	NO EXCEPTIONS TAKEN
<input type="checkbox"/>	MAKE CORRECTIONS NOTED
<input type="checkbox"/>	RESUBMITTAL NOT REQUIRED
<input type="checkbox"/>	AMEND AND RESUBMIT
<input type="checkbox"/>	REJECTED - SEE REMARKS
BY: <i>[Signature]</i> PB AMERICAS, INC.	
DATE: <i>5/7/16</i>	



REVISIONS		DATE	BY	DESCRIPTION	DRAWN BY	CHECKED BY	DESIGNED BY	CHECKED BY	VERMONT AGENCY OF TRANSPORTATION			SHEET TITLE	REF. DWG. NO.	
DATE	BY								ROAD NO.	COUNTY	PROJECT ID			PROJECT NAME
02/23/16	FRS			GENERAL REVISION	BON 11/15	PDB 11/15	MAT 11/15	PRS 11/15	BENNINGTON	B' BPNT 1161		CONTAINMENT SECTION DETAILS (2 OF 3)		
05/10/16	FRS			GENERAL REVISION								FIVE BRIDGES ON OR OVER US ROUTE 7		
PAUL STEJLEN P.E. P.E. LICENSE NUMBER 107295 A2B ENGINEERING, LLC. 5406 N. HOOVER BLVD., SUITE 12 TAMPA, FL 33634					MONOKO, LLC. 1037 PENINSULA AVENUE TARPON SPRINGS, FL 34689 PHONE (727) 940-3244 FAX (727) 279-8795					Bridge No. 16N & 16S REF. DWG. NO. SHEET NO. C-11				

P:\187\16\042, LLC\17 Peninsulas BL Tarpon\1 Containment Plans\Cadd\B21\pca03.dgn



\* BASED ON MAXIMUM CONTAINMENT AREA OF 350 FT<sup>2</sup> AS MEASURED PERPENDICULAR TO THE DIRECTION OF CROSS-DRAFT (SEE VENTILATION SYSTEM TABLE ON GENERAL NOTES SHEETS)

- NOTES:
1. THESE PLANS WERE PREPARED WITHOUT THE BENEFIT OF AS-BUILT BRIDGE PLANS THE CONTRACTOR SHALL MAKE ALLOWANCE FOR BRIDGE ELEMENTS AND MODIFICATIONS NOT SHOWN ON THESE PLANS.
  2. THE CONTRACTOR SHALL AVOID ATTACHING/CONNECTING TO BRIDGE ELEMENTS EXHIBITING SIGNIFICANT SECTION LOSS.
  3. FOR ADDITIONAL DETAILS, SEE CONTAINMENT MISCELLANEOUS DETAILS SHEETS.
  4. CONTRACTOR TO PROVIDE LIFE LINES MEETING OSHA 1910.66 APPENDIX C AS REQUIRED.

TYPICAL SECTION  
(PHASES I THRU III)  
(MOBILE DUST COLLECTOR NOT SHOWN FOR CLARITY)

Vermont Agency of Transportation  
**RECEIVED**  
ON: **May 10, 2016**  
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BY: Mark Sargent DATE: 05/13/2016

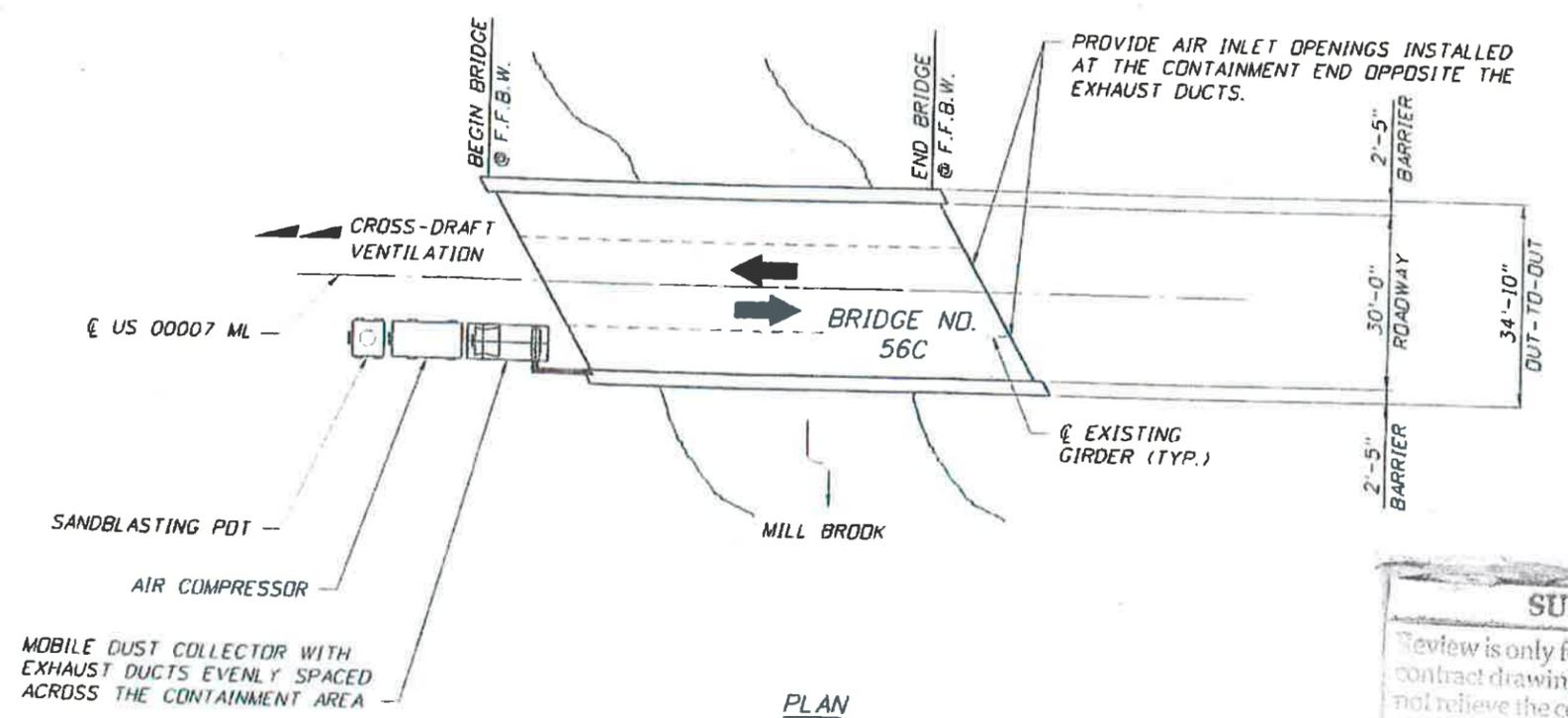
THREE (3) EXHAUST DUCT EVENLY SPACED ACROSS DECK SECTION (TYP.)\*

CONTAINMENT PLATFORM CONSTRUCTED W/ CHAIN LINK FENCE HAVING A 2" MESH & 9 GAUGE WIRE OR NETTING MEETING ANSI A10.11 & DSHA 1926.500 (PART 1) SECURE FENCE TO CABLE WITH 1/4" DIA. TIES OR CABLE CLIPS. SEE CHAIN LINK FENCE LAYOUT DETAIL.

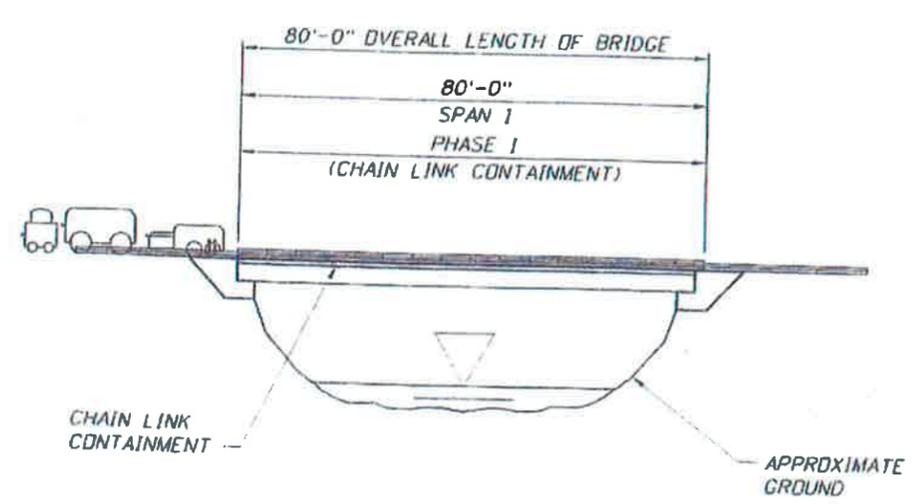
SUBMITTAL REVIEW	
Review is only for general conformity to the contract drawings and specifications and shall not relieve the contractor of his entire responsibility under the contract, including among other things, dimensions to be confirmed and correlated at the job site, and information that pertains to the fabrication processes or to techniques of construction.	
<input checked="" type="checkbox"/>	NO EXCEPTIONS TAKEN
<input type="checkbox"/>	MAKE CORRECTIONS NOTED RESUBMITTAL NOT REQUIRED
<input type="checkbox"/>	AMEND AND RESUBMIT
<input type="checkbox"/>	REJECTED - SEE REMARKS
BY: <i>SB</i> PB AMERICAS, INC.	
DATE: <i>5/9/16</i>	



<b>REVISIONS</b> DATE BY DESCRIPTION 02/24/16 PPS GENERAL REVISION 05/05/16 PRS GENERAL REVISION		PAUL STEULEN P.E. P.E. LICENSE NUMBER 107795 A2B ENGINEERING, LLC. 5406 N. HOOVER BLVD., SUITE 12 TAMPA, FL 33634	<b>MONOKO, LLC.</b> 1037 PENINSULA AVENUE TARPON SPRINGS, FL 34689 PHONE (727) 940-3244 FAX (727) 279-8795	DESIGNED BY: BDN 11/15 CHECKED BY: PDB 11/15 DESIGNED BY: MAT 11/15 CHECKED BY: PRS 11/15	VERMONT AGENCY OF TRANSPORTATION ROAD NO. COUNTY PROJECT ID BENNINGTON BF BPH1 (16)	SHEET TITLE CONTAINMENT SECTION DETAILS (3 OF 3) FIVE BRIDGES ON OR OVER US ROUTE 7	REF. DWG. NO. SHEET NO. C-11A
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PLAN  
(PHASE I SHOWN)



ELEVATION  
(PHASE I SHOWN)

NOTES:

1. THESE PLANS WERE PREPARED WITHOUT THE BENEFIT OF AS-BUILT BRIDGE PLANS. THE CONTRACTOR SHALL MAKE ALLOWANCE FOR BRIDGE ELEMENTS AND MODIFICATIONS NOT SHOWN ON THESE PLANS.
2. WORK PHASE I SHOWN SCHEMATICALLY. REFERENCE MDT PLANS FOR LIMITS OF WORK PHASES.
3. WORK PHASE I MAY BE WORKED IN ANY ORDER AT THE CONVENIENCE OF THE CONTRACTOR'S MEANS AND METHODS, TRAFFIC PATTERNS AND DENSITY, OR OTHER SITE CHARACTERISTICS THAT INFLUENCE A PREFERRED WORK AREA.
4. THE CONTRACTOR HAS THE OPTION TO USE ADDITIONAL MOBILE DUST COLLECTORS, OR PLACE LONGITUDINAL OR TRANSVERSE INTERMEDIATE TARPULIN WALLS.
5. FOR ADDITIONAL DETAILS, SEE CONTAINMENT MISCELLANEOUS DETAILS SHEETS.

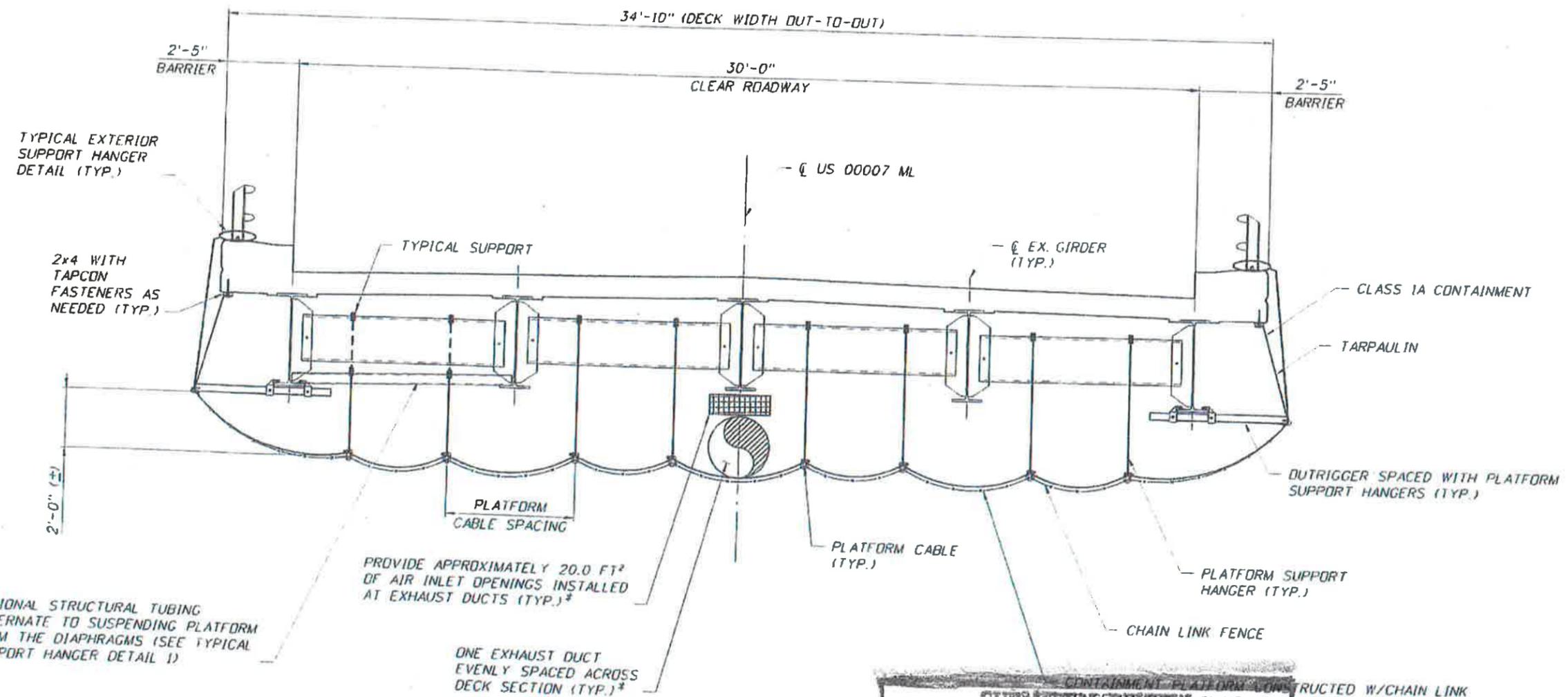
SUBMITTAL REVIEW	
Review is only for general conformity to the contract drawings and specifications and shall not relieve the contractor of his entire responsibility under the contract, including among other things, dimensions to be confirmed and correlated at the job site, and information that pertains to the fabrication processes or to techniques of construction.	
<input checked="" type="checkbox"/>	NO EXCEPTIONS TAKEN
<input type="checkbox"/>	MAKE CORRECTIONS NOTED
<input type="checkbox"/>	RESUBMITTAL NOT REQUIRED
<input type="checkbox"/>	AMEND AND RESUBMIT
<input type="checkbox"/>	REJECTED - SEE REMARKS
BY: <u>PB AMERICAS, INC.</u>	
DATE:	<u>5/9/16</u>

Vermont Agency of Transportation  
**RECEIVED**  
 ON: **May 10, 2016**  
 and Checked for  
**CONFORMANCE**  
 BY: Mark Sargent DATE: 05/13/2016



REVISIONS			PAUL STEJLEN P.E. P.E. LICENSE NUMBER 107795 A2B ENGINEERING, LLC. 5406 N. HOOVER BLVD., SUITE 12 TAMPA, FL 33634	<b>MONOKO, LLC.</b> 1037 PENINSULA AVENUE TARPON SPRINGS, FL 34689 PHONE (727) 940-3244 FAX (727) 279-8795	DRAWN BY: BDN 11/15 CHECKED BY: PDB 11/15 DESIGNED BY: MAT 11/15 CHECKED BY: PRS 11/15	VERMONT AGENCY OF TRANSPORTATION			SHEET NO. PLAN & ELEVATION	BRIDGE NO. Bridge No. 56C
DATE	BY	DESCRIPTION				ROAD NO.	COUNTY	PROJECT ID		
				RUTLAND	BF BPNT (16)	FIVE BRIDGES ON OR OVER US ROUTE 7		C-12		

P:\167 Monoko, LLC\17 Berrington-MI Tabors\1 Containment Plans\Cadd\B5PlanElev.dgn



\* BASED ON MAXIMUM CONTAINMENT AREA OF 180 FT<sup>2</sup> AS MEASURED PERPENDICULAR TO THE DIRECTION OF CROSS-DRAFT (SEE VENTILATION SYSTEM TABLE ON GENERAL NOTES SHEETS)

NOTES:

1. THESE PLANS WERE PREPARED WITHOUT THE BENEFIT OF AS-BUILT BRIDGE PLANS. THE CONTRACTOR SHALL MAKE ALLOWANCE FOR BRIDGE ELEMENTS AND MODIFICATIONS NOT SHOWN ON THESE PLANS.
2. THE CONTRACTOR SHALL AVOID ATTACHING/CONNECTING TO BRIDGE ELEMENTS EXHIBITING SIGNIFICANT SECTION LOSS.
3. FOR ADDITIONAL DETAILS, SEE CONTAINMENT MISCELLANEOUS DETAILS SHEETS.
4. CONTRACTOR TO PROVIDE LIFE LINES MEETING OSHA 1910.66 APPENDIX C AS REQUIRED.

TYPICAL SECTION  
(MOBILE DUST COLLECTOR NOT SHOWN FOR CLARITY)

Vermont Agency of Transportation  
**RECEIVED**  
ON: **May 10, 2016**  
and Checked for  
**CONFORMANCE**  
BY: Mark Sargent DATE: 05/13/2016

CONTAINMENT PLATFORM CONSTRUCTED W/CHAIN LINK FENCE TO CABLE WITH 1/4" ROPE TIES OR CABLE

**SUBMITTAL REVIEW**

Review is only for general conformance to the contract drawings and specifications and shall not relieve the contractor of his entire responsibility under the contract, including among other things, dimensions to be confirmed and correlated at the job site, and information that pertains to the fabrication processes or to techniques of construction.

NO EXCEPTIONS TAKEN  
 MAKE CORRECTIONS NOTED  
 RESUBMITTAL NOT REQUIRED  
 AMEND AND RESUBMIT  
 REJECTED - SEE REMARKS

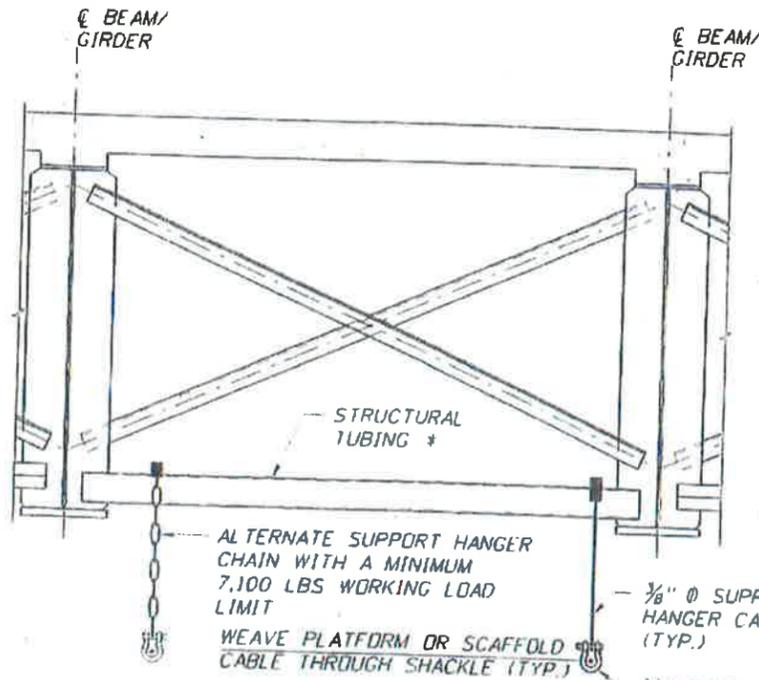
BY: *Mark Sargent*  
 DATE: *5/9/16*

PB AMERICAS, INC.

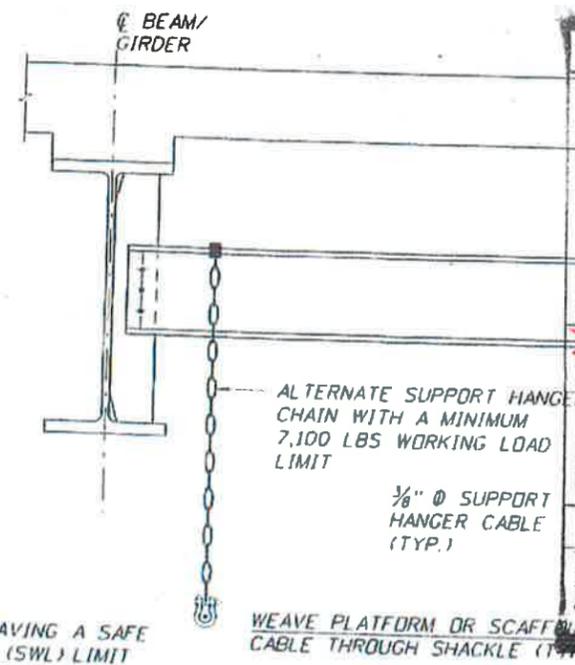


Bridge No. 56C

REVISIONS			DATE	BY	DESCRIPTION	DRAWN BY: BON 11/15	CHECKED BY: PDB 11/15	DESIGNED BY: MAT 11/15	CHECKED BY: PRS 11/15	VERMONT AGENCY OF TRANSPORTATION			CONTAINMENT SECTION DETAILS		REF. DWG. NO.
DATE	BY	DESCRIPTION								ROAD NO.	COUNTY	PROJECT ID	PROJECT NAME	DIRECT NO.	
										RUTLAND	BF BPNT 1161			FIVE BRIDGES ON OR OVER US ROUTE 7	C-13



DETAIL 1



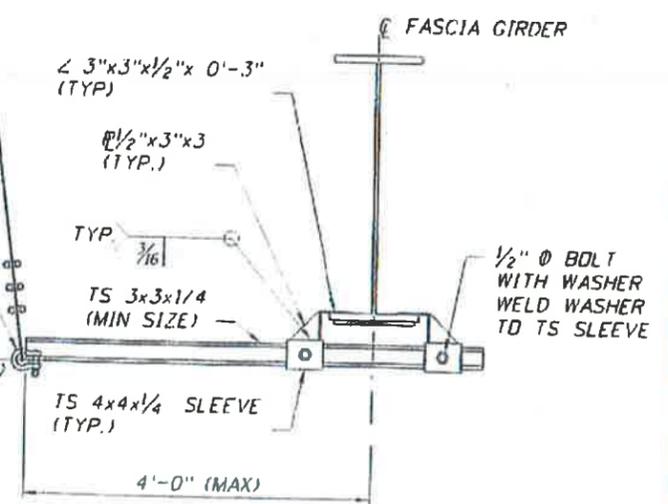
DETAIL 2

**SUBMITTAL REVIEW**

Review is only for general conformity to the contract drawings and specifications and shall not relieve the contractor of his entire responsibility under the contract, including among other things, dimensions confirmed and correlated at the job site or information that pertains to the installation processes or techniques of construction.

NO EXCEPTIONS  
 MAKE CORRECTIONS NOTED  
 RESUBMIT NOT REQUIRED  
 AMEND AND RESUBMIT  
 REJECTED - SEE REMARKS

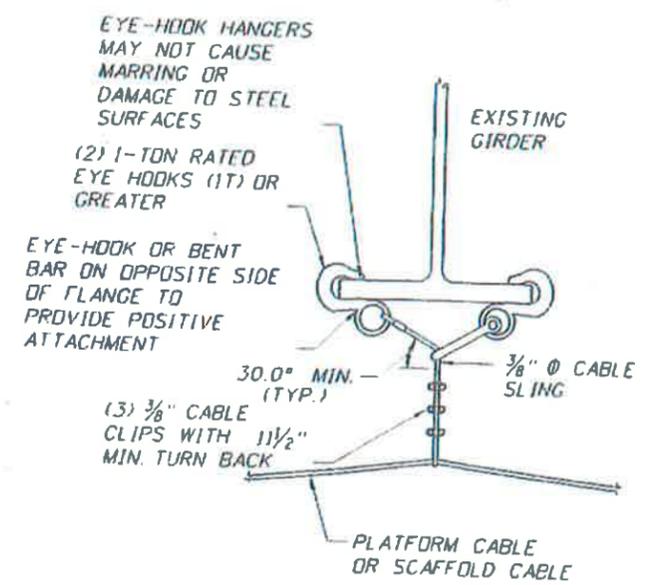
PB AMERICAS, INC.  
 BY: *SB*  
 DATE: *5/9/16*



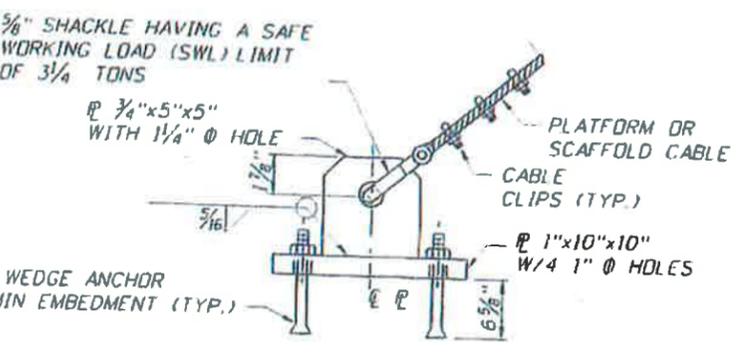
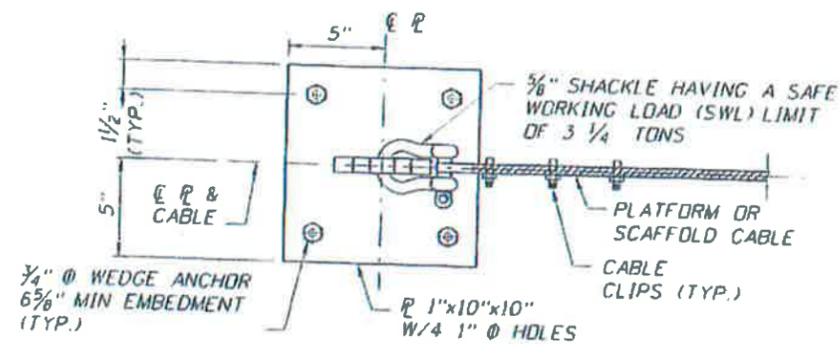
TYPICAL OUTRIGGER DETAIL

Vermont Agency of Transportation  
**RECEIVED**  
 ON: **May 10, 2016**  
 and Checked for  
**CONFORMANCE**  
 BY: Mark Sargent DATE: 05/13/2016

\* USE TS 4X4X1/4 FOR SPACING UP TO 9'-6" OR TS 4X4X3/8 FOR SPACING UP TO 11'-0"



ALTERNATE SUPPORT HANGER



OPTIONAL ANCHOR PLATE ATTACHMENT

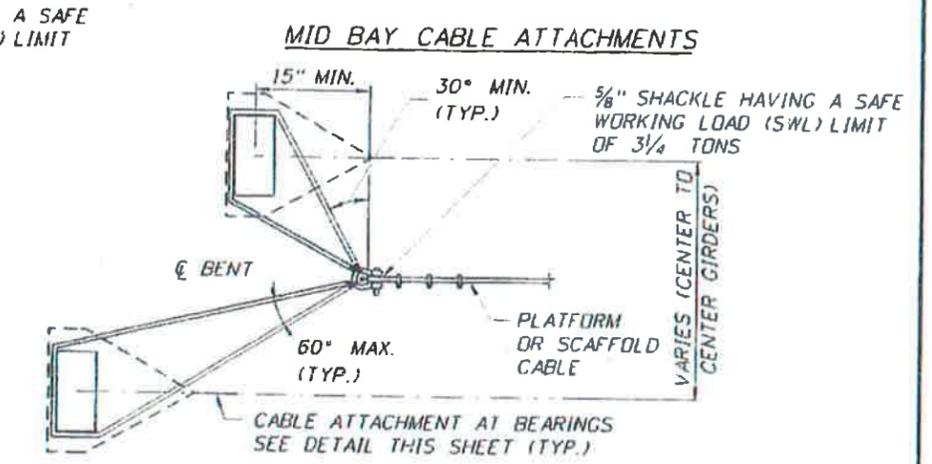
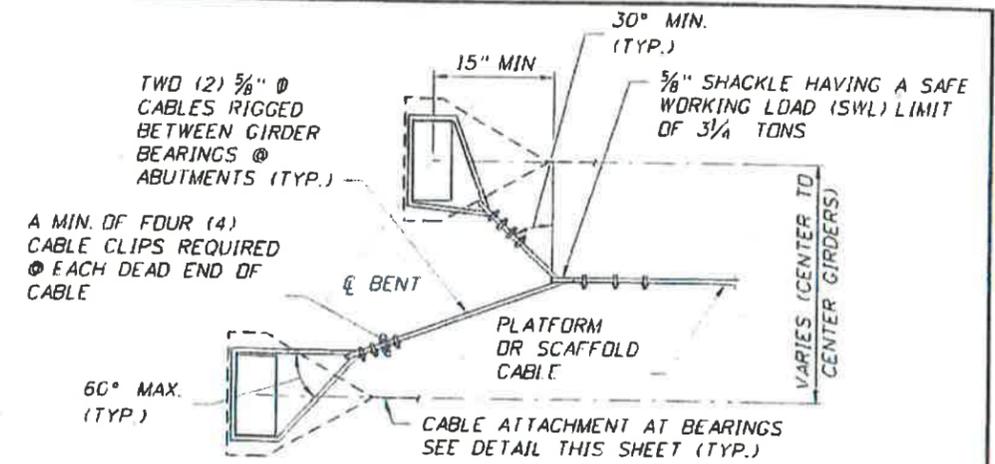
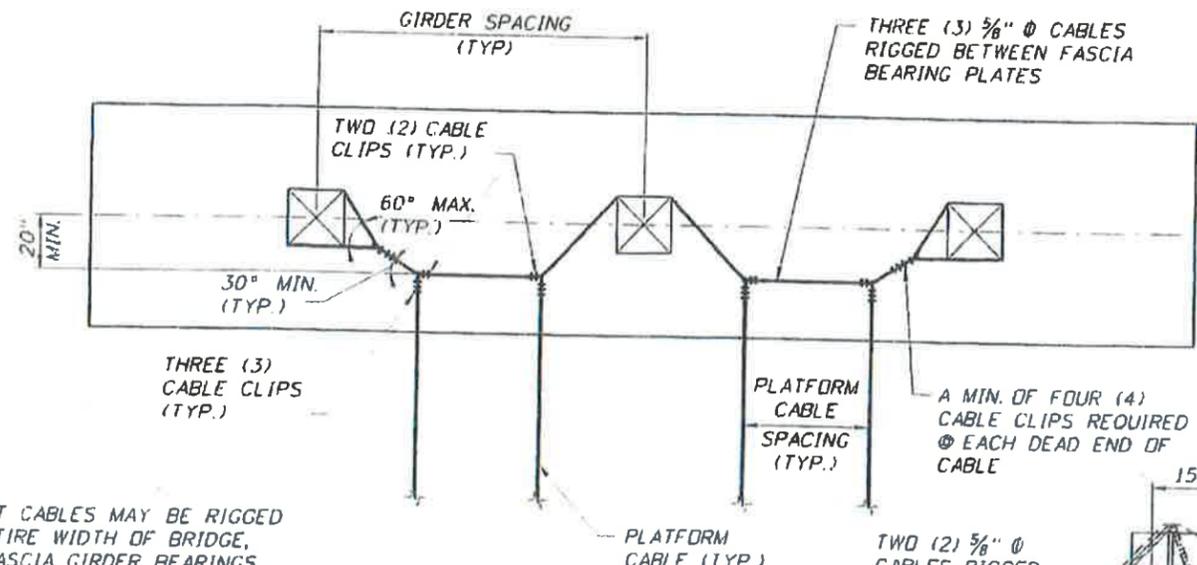
- GENERAL NOTES:
- OBTAIN APPROVAL FROM OWNER OR THE RESIDENT ENGINEER PRIOR TO INSTALLATION OF THE ANCHOR PLATE. CONSULT WITH RESIDENT ENGINEER REGARDING ANY ENCASED CONDUITS, PIPES, OR ANY OTHER KNOWN OBSTRUCTIONS PRIOR TO DRILLING.
  - STRUCTURAL STEEL SHALL CONFORM TO ASTM A36.
  - WELD ELECTRODES SHALL BE E70XX.
  - TO RESTORE CONCRETE:
    - REMOVE ANCHORS COMPLETELY WITHOUT DAMAGING THE CONCRETE ELEMENT.
    - FINISH SURFACE WITH DOT APPROVED METHODS AND NON-SHRINK GROUT.
  - MINIMUM 8" EDGE DISTANCE AND 6" CENTER TO CENTER OF BOLTS IS REQUIRED.
  - CONTRACTOR SHALL ATTACH THE ANCHOR PLATES TO SOUND CONCRETE. CONCRETE THAT IS SPALLED SHALL NOT BE CONSIDERED AS SOUND CONCRETE WITH MAP CRACKS AND EFFLORESCENCE SHOULD HAVE PULL OUT TESTS CONDUCTED ON ALL ANCHOR BOLTS TO ENSURE THAT THE PROPER CAPACITY CAN BE ACHIEVED.
  - ANCHOR PLATE SHALL NOT BE ATTACHED TO PRESTRESSED PILES OR BEAMS.

- INSTALLATION NOTES:
- DRILL (4) HOLES, USING THE MANUFACTURER'S RECOMMENDED DRILL BIT SIZE, INTO CONCRETE USING ANCHOR PLATE AS A TEMPLATE. (HOLES FOR ANCHOR BOLTS SHALL BE DRILLED 1/4" MINIMUM DEEPER THAN THE MINIMUM EMBEDMENT LENGTH FOR ALL ANCHOR BOLTS.)
  - INSTALL ANCHOR BOLTS PER MANUFACTURER'S INSTRUCTIONS.
  - INSTALL 3/8" SHACKLE (OR GREATER) ONTO THE ANCHOR PLATE.
  - INSTALL MAIN CABLE ONTO SHACKLE.

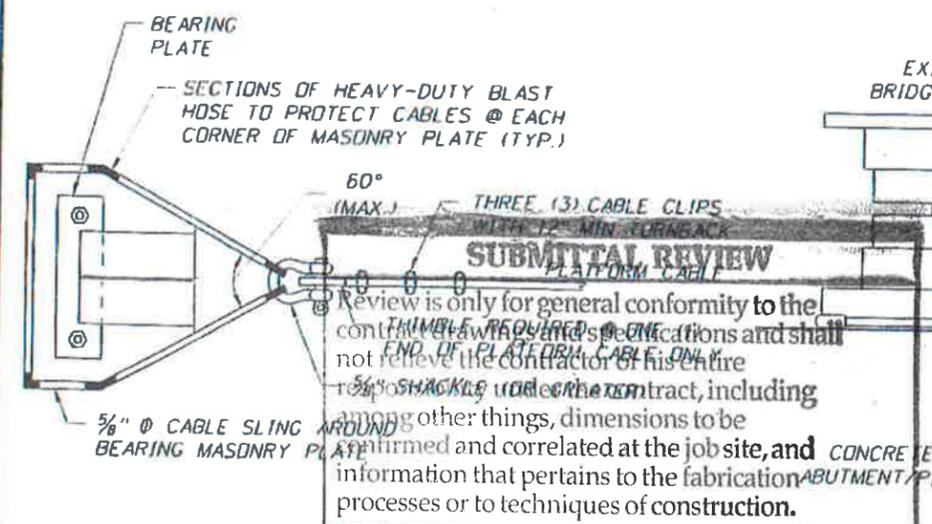


Bridge Nos. All

REVISIONS			DATE	BY	DESCRIPTION	PAUL STEIJLEN P.E. P.E. LICENSE NUMBER 107795 A2B ENGINEERING, LLC. 5406 N. HOOVER BLVD., SUITE 12 TAMPA, FL 33634	MONOKO, LLC. 1037 PENINSULA AVENUE TARPON SPRINGS, FL 34689 PHONE (727) 940-3244 FAX (727) 278-8795	DESIGNED BY: BDN 11/15 CHECKED BY: PDB 11/15 DESIGNED BY: MAT 11/15 CHECKED BY: PRS 11/15	VERMONT AGENCY OF TRANSPORTATION			SHEET TITLE: CONTAINMENT MISCELLANEOUS DETAILS (1 OF 4)	REF. DWG. I.D.
NO.	DATE	DESCRIPTION							ROAD I.D.	COUNTY	PROJECT I.D.		
									BENNINGTON	RUTLAND	BF BPWT (16)	FIVE BRIDGES ON OR OVER US ROUTE 7	C-14



NOTE:  
ATTACHMENT CABLES MAY BE RIGGED ACROSS ENTIRE WIDTH OF BRIDGE, BETWEEN FASCIA GIRDER BEARINGS AND/OR BETWEEN INDIVIDUAL PAIRS OF BEARINGS.



**SUBMITTAL REVIEW**

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NO EXCEPTIONS TAKEN

MAKE CORRECTIONS NOTED

RESUBMITTAL NOT REQUIRED

AMEND AND RESUBMIT

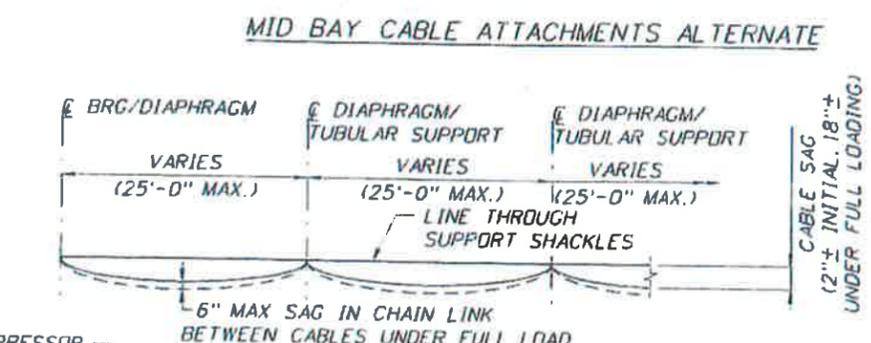
REJECTED - SEE REMARKS

BY: 82 Bayington

DATE: 5/9/16

**PB AMERICAS, INC.**

\* SANDBLASTING POT SHALL BE CENTERED OVER PIER. IF EQUIPMENT EXCEEDS LEGAL LOAD LIMITS WHEN FULL, EQUIPMENT SHALL BE USED PARTIALLY FULL ONLY AS REQUIRED TO STAY WITHIN LEGAL LOAD LIMITS. ANY LOAD THAT EXCEEDS LEGAL LOAD LIMIT SHALL BE SUBMITTED TO THE DEPARTMENT FOR REVIEW AND APPROVAL.



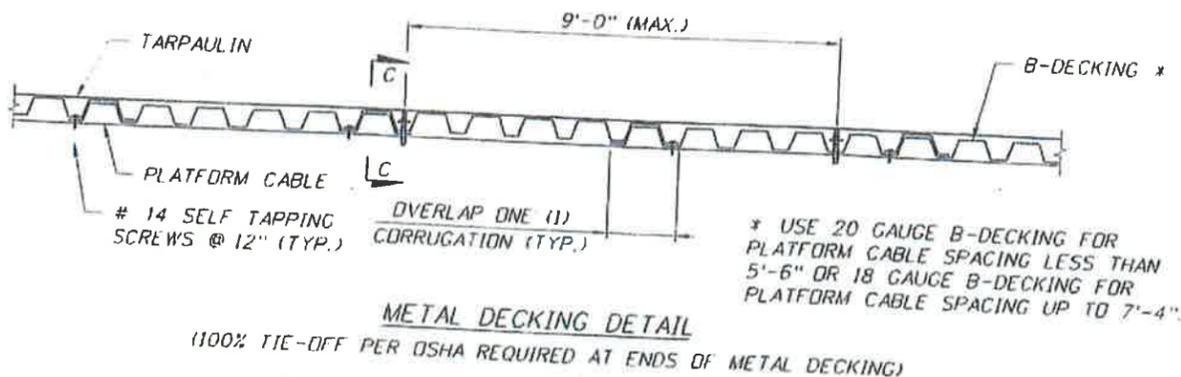
CONTRACTOR EQUIPMENT ON BRIDGE (SCHEMATIC)

Vermont Agency of Transportation  
**RECEIVED**  
ON: **May 10, 2016**  
and Checked for  
**CONFORMANCE**  
BY: Mark Sargent DATE: 05/13/2016

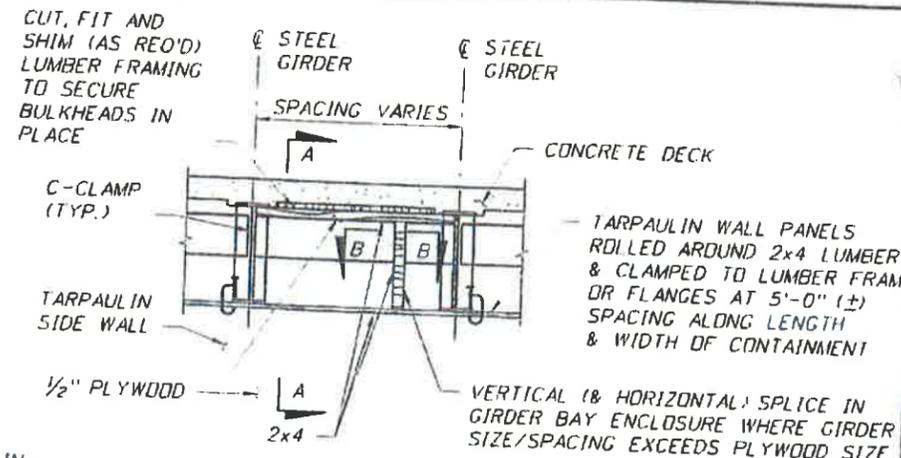


REVISIONS		DESCRIPTION	DATE	BY

PAUL STEJLER P.E. P.E. LICENSE NUMBER 107795 A2B ENGINEERING, LLC. 5406 N. HOOVER BLVD., SUITE 12 TAMPA, FL 33634	<b>MONOKO, LLC.</b> 1037 PENINSULA AVENUE TARPON SPRINGS, FL 34689 PHONE (727) 940-3244 FAX (727) 279-8795	DRAWN BY: <b>BDN 11/15</b> CHECKED BY: <b>PDB 11/15</b> DESIGNED BY: <b>MAT 11/15</b> CHECKED BY: <b>PRS 11/15</b>	VERMONT AGENCY OF TRANSPORTATION ROAD ID: <b>BENNINGTON</b> COUNTY: <b>RUTLAND</b> PROJECT ID: <b>BF BPNT (16)</b>	SHEET TITLE: <b>CONTAINMENT MISCELLANEOUS DETAILS (2 OF 4)</b> PROJECT NAME: <b>FIVE BRIDGES ON OR OVER US ROUTE 7</b>	REF. DWG. NO.  SHEET NO. <b>C-15</b>
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**METAL DECKING DETAIL**  
 (100% TIE-OFF PER OSHA REQUIRED AT ENDS OF METAL DECKING)



**GIRDER BAY ENCLOSURE**

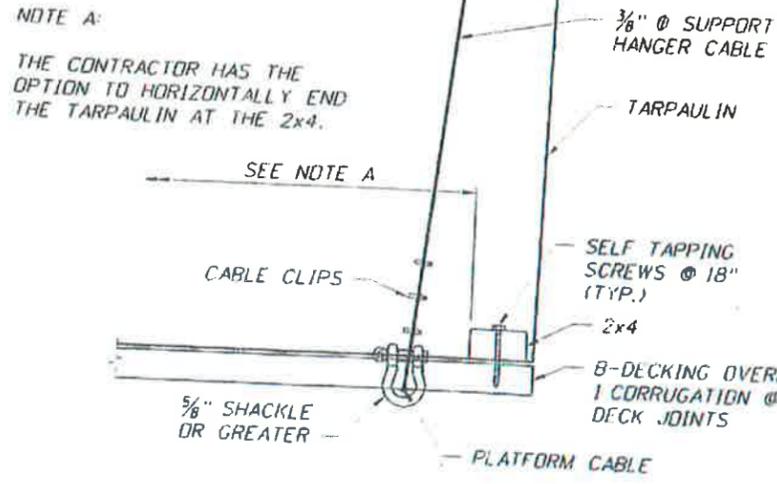
**SUBMITTAL REVIEW**

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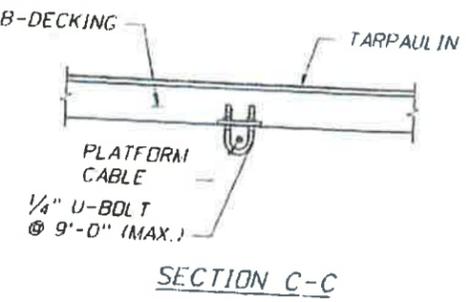
NO EXCEPTIONS TAKEN  
 MAKE CORRECTIONS NOTED  
 RESUBMITTAL NOT REQUIRED  
 AMEND AND RESUBMIT  
 REJECTED - SEE REMARKS

BY: *SB*  
 DATE: *8/9/16*

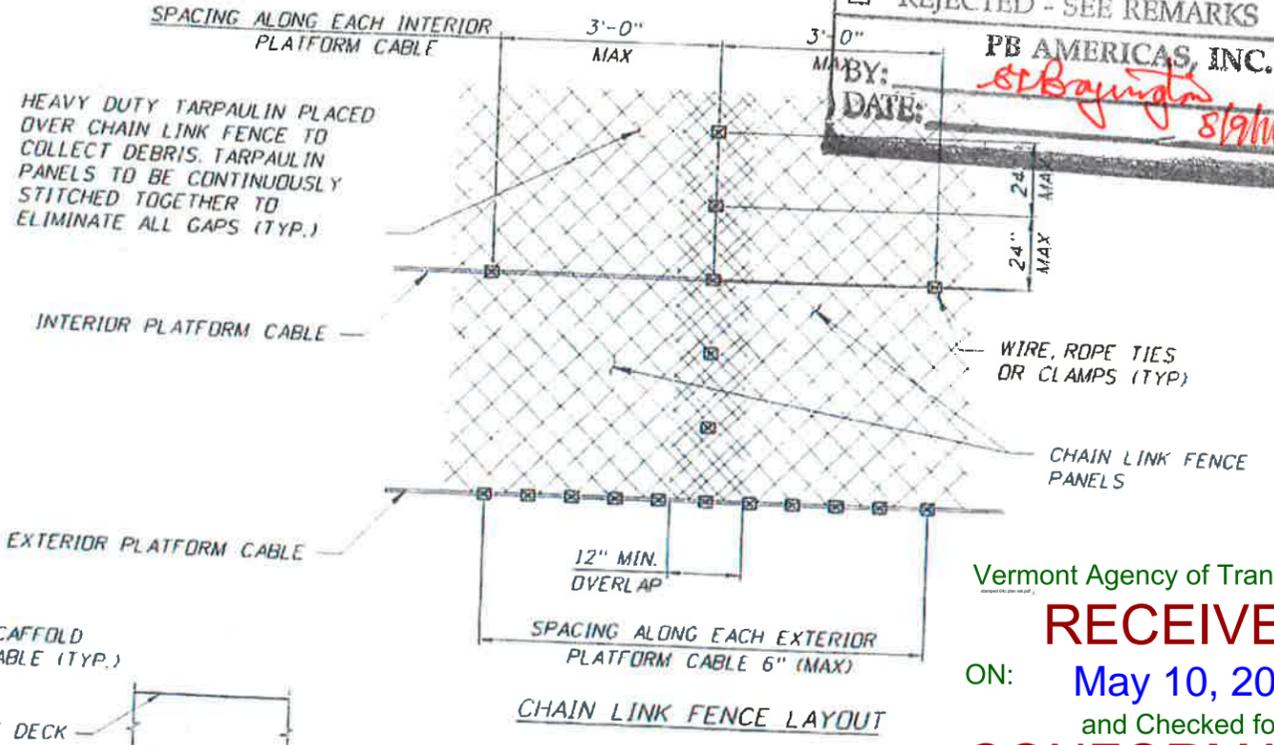
**PB AMERICAS, INC.**



**METAL DECKING END DETAIL**



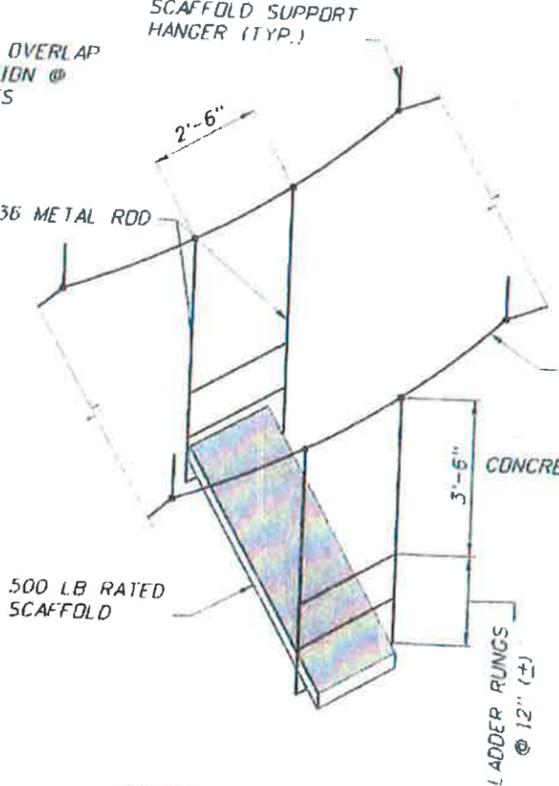
**SECTION C-C**



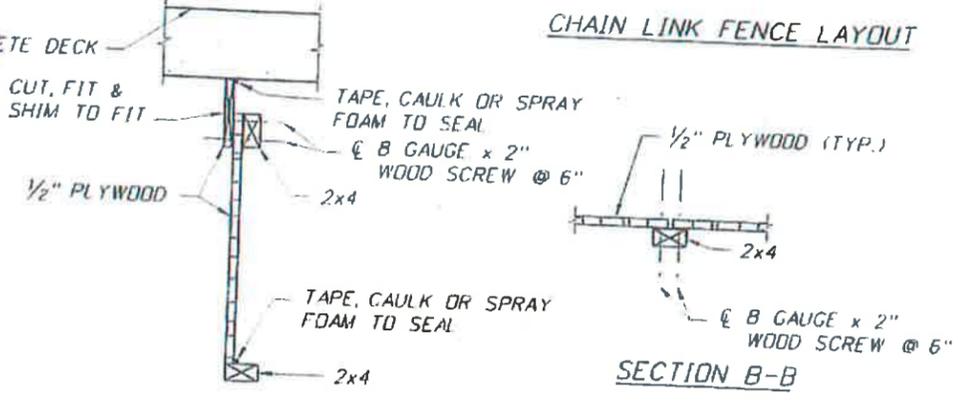
**CHAIN LINK FENCE LAYOUT**

CABLE CLIP INSTALLATION			
CABLE DIA	MIN. CABLE TURNBACK, IN	MIN. TORQUE FT-LBS	NO. OF CLIPS
3/8"	11"	45	3
1/2"	11.5"	65	3
5/16"	12"	95	3
5/8"	12"	95	3

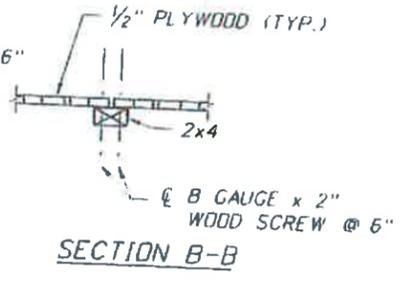
**NOTE:**  
 ALL CABLES & CLIPS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDED PROCEDURES. IF CABLES SEPARATE AT 60° MAX. ANGLE, ADD ONE ADDITIONAL CLIP.



**SCAFFOLD ISOMETRIC (OPTIONAL SUSPENDED SCAFFOLD)**



**SECTION A-A**



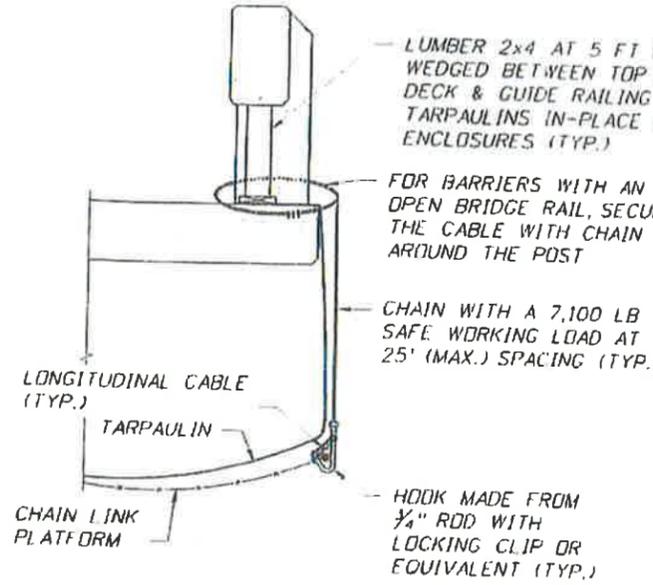
**SECTION B-B**

Vermont Agency of Transportation  
**RECEIVED**  
 ON: **May 10, 2016**  
 and Checked for  
**CONFORMANCE**  
 BY: Mark Sargent DATE: 05/13/2016

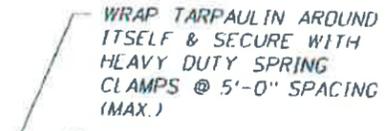
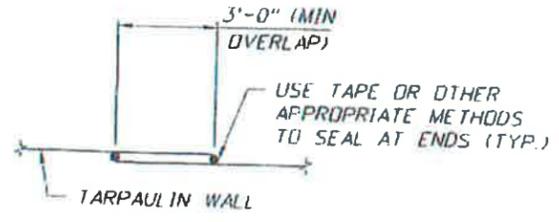
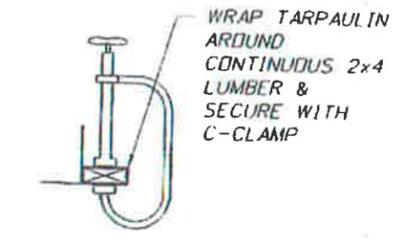


REVISIONS		DESCRIPTION	DATE	BY

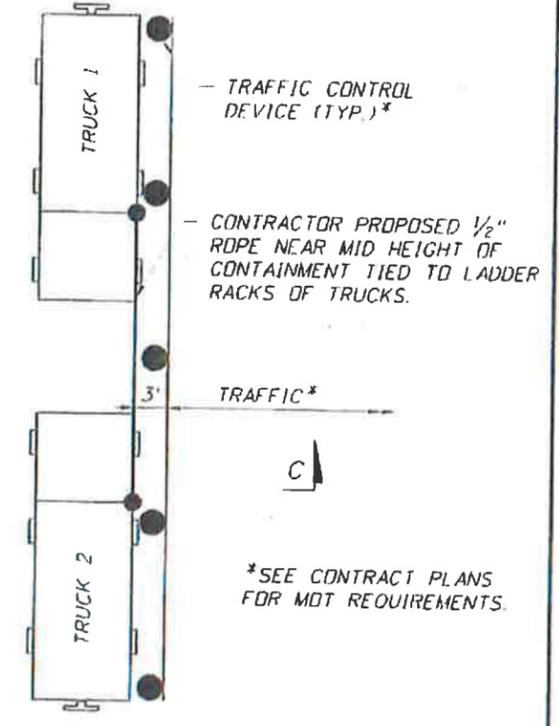
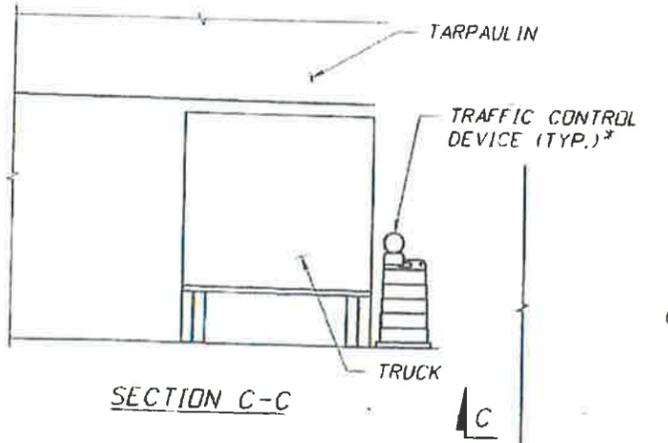
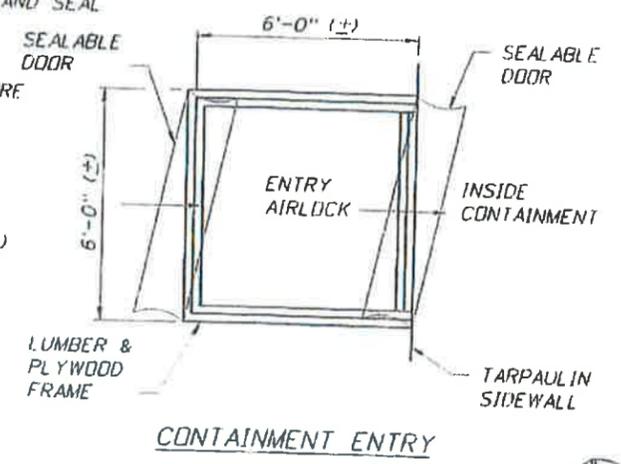
PAUL STEJLE P.E. P.E. LICENSE NUMBER 107795 A2B ENGINEERING, LLC. 5406 N. HOOVER BLVD., SUITE 12 TAMPA, FL 33634	<b>MONOKO, LLC.</b> 1037 PENINSULA AVENUE TARPON SPRINGS, FL 34689 PHONE (727) 940-3244 FAX (727) 279-8795	DRAWN BY: <i>BDN 11/15</i> CHECKED BY: <i>PDR 11/15</i> DESIGNED BY: <i>MAT 11/15</i> CHECKED BY: <i>PRS 11/15</i>	VERMONT AGENCY OF TRANSPORTATION ROAD NO: <i> </i> COUNTY: <i> </i> PROJECT ID: <i> </i>	SHEET TITLE: <b>CONTAINMENT MISCELLANEOUS DETAILS (3 OF 4)</b>	REF. DIV. NO. <i> </i>
PROJECT NAME: <b>FIVE BRIDGES ON OR OVER US ROUTE 7</b>	PROJECT NO. <i> </i>	BRIDGE NO. <i> </i>	SHEET NO. <b>C-16</b>	Bridge Nos. All	12/16/2015 9:37:02 AM



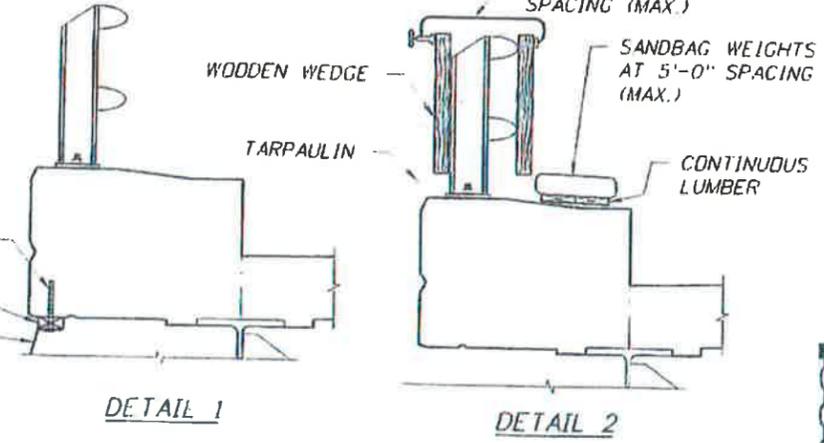
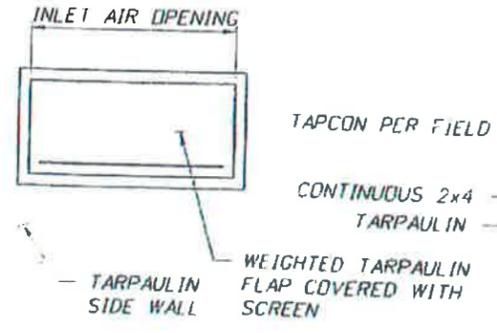
**EXTERIOR SUPPORT HANGER**  
(CHAIN LINK PLATFORM SHOWN, NETTING OR METAL DECKING IS SIMILAR)



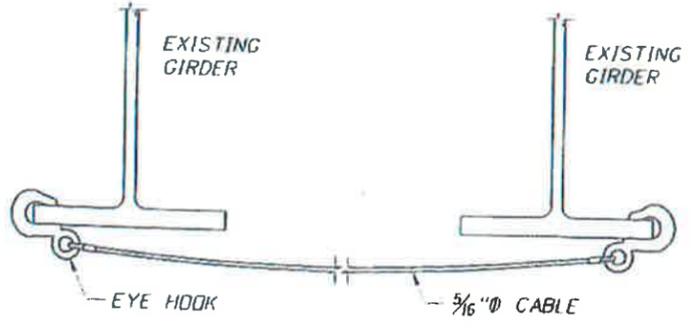
**ADJACENT TARPULIN CONNECTION ALTERNATIVES**



Vermont Agency of Transportation  
**RECEIVED**  
ON: **May 10, 2016**  
and Checked for  
**CONFORMANCE**  
BY: Mark Sargent DATE: 05/13/2016



**TARPULIN PARAPET CONNECTION**



**BETWEEN BEAMS**

5/16" CABLE THREADED THROUGH CHAIN SUPPORTS AND ANCHORED AROUND BEARINGS OR TRAFFIC RAILING POSTS.

1/2" SHACKLE AT END OF OUTRIGGER FOR EXTERIOR CHAIN INSTALLATION

NO EXCEPTIONAL OUTRIGGERS MAKE CORRECTIONS NOTED

RESUBMITTAL NOT REQUIRED

AMEND AND RESUBMIT

DEFECTED - SEE REMARKS

PB AMERICAS, INC.

BY: *subyinda*

DATE: *5/16/16*

**SUBMITTAL REVIEW**

is only for general conformity to the contract drawing and specifications and shall believe the contractor of his entire responsibility under the contract, including among other things, dimensions to be confirmed and coordinated at the job site, and information that pertains to the fabrication processes or to techniques of construction.

OUTRIGGER (SEE OUTRIGGER DETAIL)



Bridge Nos. All

REVISIONS			DATE	BY	DESCRIPTION	DRAWN BY: BDN 11/15	CHECKED BY: PDB 11/15	DESIGNED BY: MAT 11/15	CHECKED BY: PRS 11/15	VERMONT AGENCY OF TRANSPORTATION			SHEET NO. CONTAINMENT MISCELLANEOUS DETAILS (4 OF 4)	REF. DWG. NO.
DATE	BY	DESCRIPTION								ROUTE	COUNTY	PROJECT NO.		
										BENNINGTON	RUTLAND	BF BPNT (16)	FIVE BRIDGES ON OR OVER US ROUTE 7	C-17

P:\167 Monoko, LLC\17 Bennington\17 Tarpaulin Containment Plans\Cad\BDDetails\01.dgn