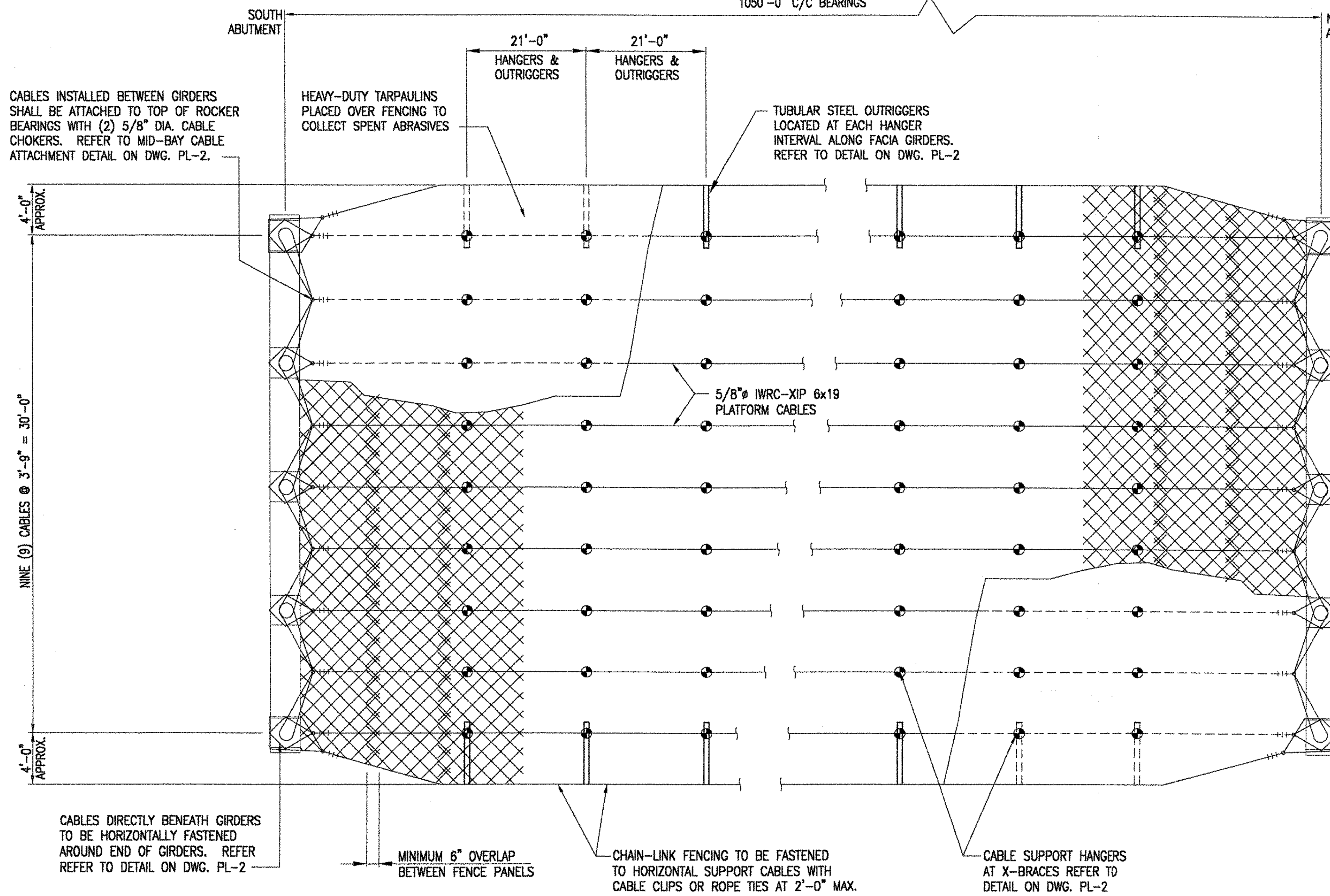


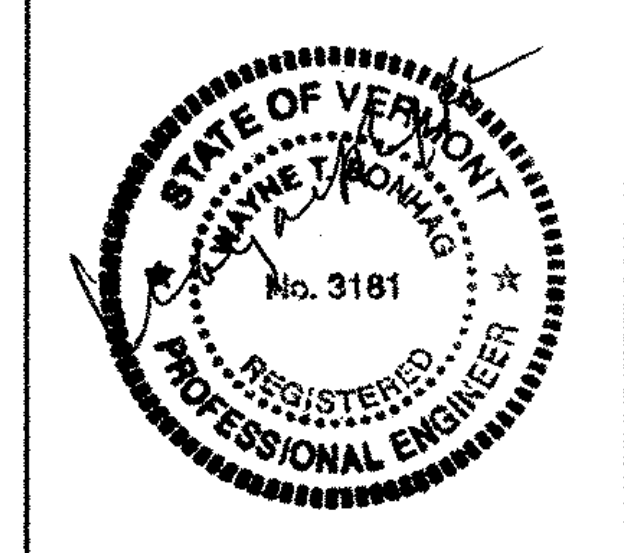
SUSPENDED PLATFORM SYSTEM DESIGN



SUSPENDED PLATFORM SYSTEM INSTALLATION
PLAN VIEW
 NOT-TO-SCALE

1. THE SUSPENDED PLATFORM SYSTEM PROPOSED FOR THIS PROJECT WILL CONSIST OF 9-GAGE CHAIN-LINK FENCING SUPPORTED BY A SERIES OF HORIZONTAL CABLES RIGGED BETWEEN THE ABUTMENTS AND/OR PIERS. THE PLATFORM SYSTEM HAS BEEN LICENSED FOR USE FROM TOTAL CONTAINMENT SYSTEMS, INC. REFER TO THE SUSPENDED PLATFORM INSTALLATION PLAN VIEW ON THIS DWG FOR THE PROPOSED INSTALLATION.
2. THE SUSPENDED PLATFORM SYSTEM HAS BEEN DESIGNED FOR A UNIFORM DEAD AND LIVE LOADING OF 16 PSF, WHICH INCLUDES A 3/4" MAXIMUM ALLOWABLE LAYER OF SPENT STEEL ABRASIVES. IN ADDITION, THE PLATFORM SYSTEM HAS BEEN DESIGNED TO SUPPORT ONE (1) WORKER PER PLATFORM CABLE.
3. THE PROPOSED PLATFORM SYSTEM WILL UTILIZE STEEL CHAIN-LINK FENCE PANELS MEASURING A MINIMUM OF 36" WIDE BY THE WIDTH OF THE PLATFORM. THE FENCE WILL BE COMPRISED OF A 2" SQUARE MESH WOVEN OF 9-GAGE WIRE (0.148" DIA). WITH A 2" MESH AT A 45-DEGREE ANGLE TO THE SUPPORT CABLES, THE 9-GAGE FENCE HAS A CALCULATED ALLOWABLE TENSION OF 15,480 LBS PER LINEAL FOOT OF PLATFORM. BASED ON THE MAXIMUM PROPOSED CABLE SPACING, THE RESULTING FACTOR OF SAFETY WILL BE 4.61, WHICH EXCEEDS THE OSHA REQUIRED SAFETY FACTOR OF 4.0.
4. A TOTAL OF (11) HORIZONTAL PLATFORM CABLES SHALL BE RIGGED ACROSS THE WIDTH OF THE BRIDGE, WHICH SHALL INCLUDE (5) CABLES DIRECTLY BENEATH THE GIRDERS, (4) MID-BAY CABLES BETWEEN THE GIRDERS, AND (2) OUTRIGGERS BEYOND EACH BRIDGE FASCIA GIRDER. REFER TO THE TYPICAL CROSS-SECTIONAL VIEW PROVIDED ON DWG C-2.
5. THE HORIZONTAL PLATFORM CABLES SHALL BE 5/8" DIA. 6x19 IWRC-XIP STEEL CABLES HAVING A NOMINAL STRENGTH OF 20.60 TONS. REFER TO THE CABLE SCHEDULE ON THIS DRAWING FOR THE REQUIRED PLATFORM CABLE INSTALLATION.
6. THE HORIZONTAL PLATFORM CABLES SHALL BE RIGGED BENEATH THE ENTIRE LENGTH OF BRIDGE. THE ENDS OF THE CABLES SHALL BE ATTACHED AT EACH ABUTMENT BY RIGGING AROUND THE BACKS OF THE BRIDGE GIRDERS OR TOPS OF THE BEARINGS WITH 5/8" DIA. CABLE CHOKERS AND SHACKLES. REFER TO THE VARIOUS CABLE ATTACHMENT DETAILS PROVIDED ON DWG PL-2.
7. IN THE EVENT THE PLATFORM CABLES ARE ONLY INSTALLED ON A PORTION OF THE BRIDGE, THE PLATFORM CABLES SHALL BE RIGGED TO THE PIER(S) IN THE SAME MANNER AS THE ABUTMENTS. AS AN OPTION TO UTILIZING CHOKERS AROUND THE BEARINGS, THE MID-BAY CABLES MAY BE RIGGED VERTICALLY AROUND THE CONCRETE PIER CAPS.
8. EACH HORIZONTAL PLATFORM CABLE SHALL BE SUPPORTED FROM EVERY CROSS-BRACE (21'-0" INTERVALS) USING 1/2" DIA. IWRC 6x19 CABLES (11.50 TON STRENGTH) OR 3/8" DIA CHAINS (5.30 TON RATING).
9. TO SUPPORT THE 2 OUTERMOST CABLES, TUBULAR STEEL OUTRIGGERS SHALL BE INSTALLED ALONG THE BOTTOM FLANGES OF EACH FASCIA GIRDER (21'-0" INTERVALS). THE END OF EACH OUTRIGGER WILL BE SUPPORTED BACK TO THE BRIDGE PARAPETS WITH CABLES.
10. THE FENCE PANELS WILL BE FASTENED TO THE SUPPORT CABLES AND TO ADJACENT PANELS AT MAXIMUM 2'-0" SPACINGS IN BOTH DIRECTIONS USING SNAP RINGS, CABLE CLIPS AND/OR ROPE TIES. THE SECTIONS OF FENCE SHALL BE INSTALLED WITH AN ABSOLUTE MINIMUM OVERLAP OF 6" BETWEEN PANELS.
11. SHACKLES FOR THE MAIN HORIZONTAL SUPPORT CABLES SHALL BE 5/8" DIA. WITH A WORKLOAD RATING OF 4.88 TONS AT A 4-TO-1 SAFETY FACTOR (19.5 TONS ULTIMATE LOAD). SHACKLES FOR THE VERTICAL HANGERS SHALL BE 1/2" DIA. WITH A WORKLOAD RATING OF 3 TONS AT A 4-TO-1 SAFETY FACTOR (12 TONS ULTIMATE LOAD).
12. IN ORDER TO PREVENT DAMAGE TO THE MAIN HORIZONTAL PLATFORM CABLES, SECTIONS OF RUBBER BLAST HOSE SHALL BE INSTALLED AS A AT EACH LOCATION WHERE THE MAIN CABLES AND/OR ATTACHMENT SLINGS COME IN CONTACT WITH THE BRIDGE GIRDERS AND BEARINGS.
13. THE ENTIRE PLAN VIEW AREA OF THE CHAIN-LINK PLATFORM SHALL BE COVERED WITH 100% IMPERMEABLE TARPULINS TO CONTAIN THE SPENT ABRASIVES AND ALLOW FOR VACUUMING. THE BASE OF THE TARPULIN WALLS AROUND THE ENTIRE PERIMETER OF THE CONTAINMENT WILL BE SEALED BY ROLLING AND CLAMPING THE FLOOR AND WALL TARPULINS TO EACH OTHER AND TO THE FENCE FLOOR. SNAP CLIPS OR ROPE TIES WILL BE USED ALONG EVERY PLATFORM CABLE, AS REQ'D, TO SECURE THE FLOOR TARPS AND KEEP THE WIND FROM LIFTING THE TARPULINS DURING WORK.
14. NORTH STAR PAINTING WILL UTILIZE ONE OR MORE WORKERS, AS REQUIRED, TO CONTINUOUSLY VACUUM THE STEEL ABRASIVE FROM THE CONTAINMENT FLOOR TO MINIMIZE BUILD-UP AND REDUCE SAG OF THE SUPPORT CABLES AND FENCING.
15. ALL CABLES, CLIPS, SHACKLES AND OTHER HARDWARE SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDED PROCEDURES.
16. NORTH STAR PAINTING SHALL INSPECT THE SUSPENDED PLATFORMS ON A DAILY BASIS TO ENSURE THE INSTALLATION IS SOUND AND VOID OF ANY DAMAGED OR LOOSE COMPONENTS. THE DAILY INSPECTIONS SHOULD INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING:
 - * CHECK ALL FENCING FOR LOOSE PANELS. SECURE WITH CLIPS OR ROPE TIES, AS REQ'D
 - * CHECK ALL VERTICAL HANGERS FOR PROPER INSTALLATION
 - * CHECK THE PLATFORM FOR TEARS IN THE FLOOR TARPULINS OR AREAS WHERE THE WALL TARPS HAVE PULLED AWAY FROM THE PLATFORM
 - * CHECK FOR REQUIRED INSTALLATION OF WORKER SAFETY TIE-OFF CABLES, WHERE REQ'D
 - * CHECK ALL CONNECTIONS FOR COMPLIANCE WITH THE PLATFORM INSTALLATION PLANS

CABLE CLIP INSTALLATION				
CABLE DIA.	MIN. CABLE TURNBACK, IN.	# CLIPS W/O SNATCHBLOCK	# CLIPS W/ SNATCHBLOCK	NOTES
5/16"	5"	2	N/A	SAFETY TIE-OFF CABLES
1/2"	11"	3	4	CABLE LOOP HANGERS
5/8"	14"	3	4	PLATFORM CABLES



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NORTH STAR PAINTING COMPANY
 STATE OF VERMONT AGENCY OF TRANSPORTATION
 CONTRACT IR 089-1(13) WINDSOR COUNTY
 RTE. 1-89 over THE WHITE RIVER, VT. 14 & NECR
SUSPENDED PLATFORM INSTALLATION 119

CDI JOB NO. 21-11	DATE 1-22-00	DWG. NO. PL-1	0
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P.E. SEAL