OHIO DEPARTMENT OF TRANSPORTATION

FORT STEUBEN BRIDGE DEMOLITION PROJECT

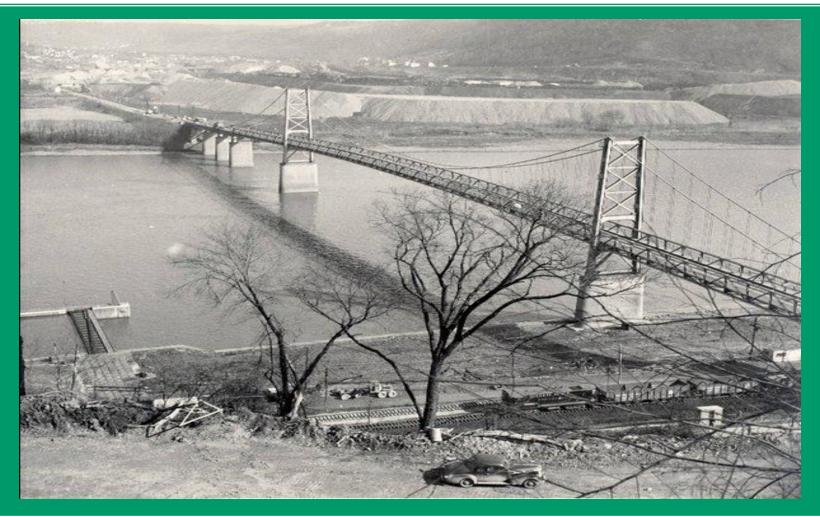
DR. WASEEM KHALIFA, PH.D., P.E. DISTRICT 11 BRIDGE ENGINEER



JOHN R. KASICH, GOVERNOR

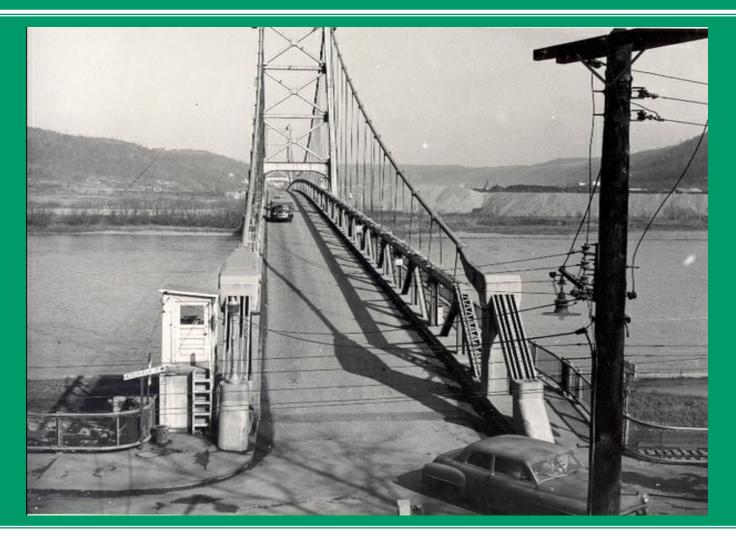
JERRY WRAY, DIRECTOR

FORT STEUBEN BRIDGE JEFFERSON COUNTY — 1928





FORT STEUBEN BRIDGE JEFFERSON COUNTY — 1928



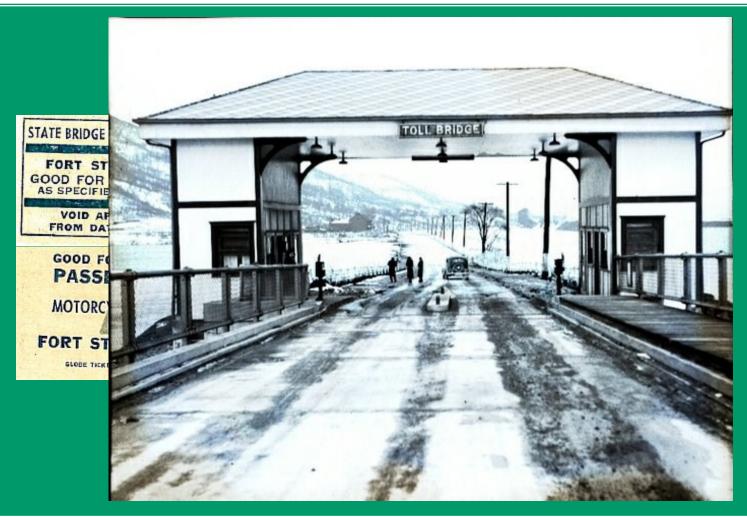


FORT STEUBEN BRIDGE JEFFERSON COUNTY — 1928





FORT STEUBEN BRIDGE OPENED AS A TOLL BRIDGE IN 1928





FORT STEUBEN BRIDGE





FORT STEUBEN BRIDGE 2008





FORT STEUBEN BRIDGE REDUCED LOADS

- Structural Deficiencies led to Reduced Loads
- Loads were reduced further in2005
- And again in 2008





FORT STEUBEN BRIDGE BRIDGE CLOSED

Bridge was closed to all traffic in January 2009





FORT STEUBEN BRIDGE PLAN DEVELOPMENT





FORT STEUBEN BRIDGE PLAN DEVELOPMENT

- STAKE HOLDERS MEETINGS (1/29/08 & 2/20/08)
- CONTRACTOR MEETING (1/30/08)
- PUBLIC MEETING (3/19/08)
- Develop Demolition Plans
- Complete Environmental Documentation
- Coordination with West Virginia & City of Steubenville
- Railroad Coordination
- Public Involvement

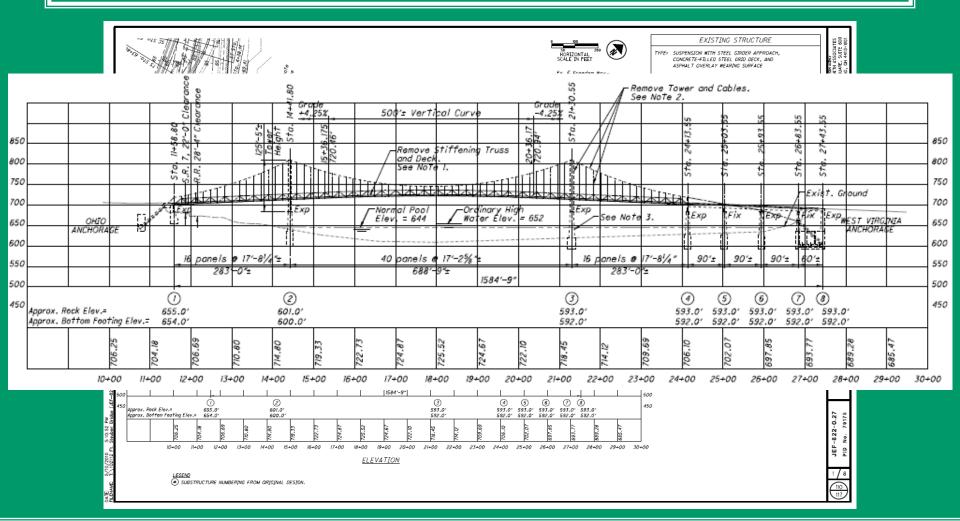


FORT STEUBEN BRIDGE PLAN DEVELOPMENT

- **IN-STREAM WORK RESTRICTION:**
 - NO WORK SHALL TAKE PLACE BELOW THE ORDINARY HIGH WATER MARK OF THE OHIO RIVER FROM APRIL 15th TO JUNE 15th.
- THE SIDEWALK CONCRETE, BRIDGE DECK PAVING, EXCESS STEEL MEMBERS AND SIMILAR MATERIALS SHALL BE REMOVED FROM EACH SPAN, PRIOR TO DROPPING THE SPAN INTO THE RIVER
- IMMEDIATELY PRIOR TO THE DETONATION OF ANY UNDERWATER EXPLOSIVES, THE CONTRACTOR SHALL EXPLODE TWO OR THREE BLASTING CAPS TO FRIGHTEN FISH AWAY FROM THE DEMOLITION SITE
- AFTER THE CHANNEL SPANS ARE DETONATED AND DROPPED INTO THE RIVER, THE CHANNEL SHALL BE PROMPTLY CLEARED AND SWEPT WITHIN 24 HOURS.

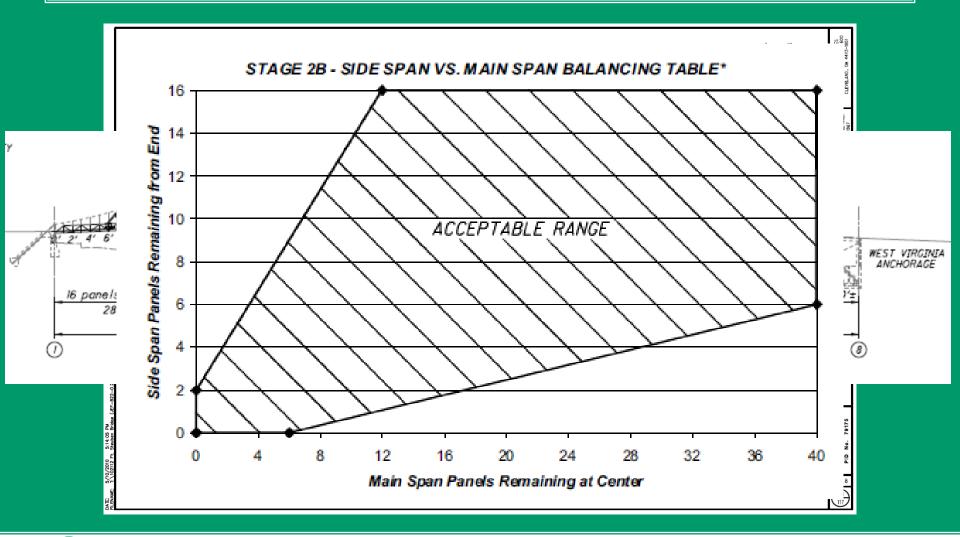


FORT STEUBEN BRIDGE PLAN & PROFILE



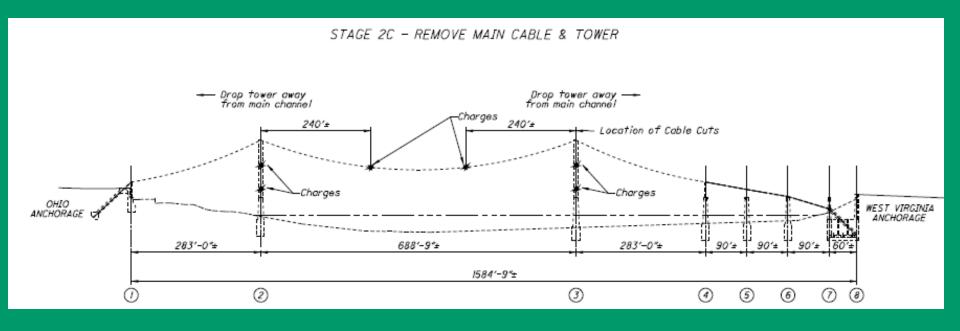


PROPOSED REMOVAL PLAN



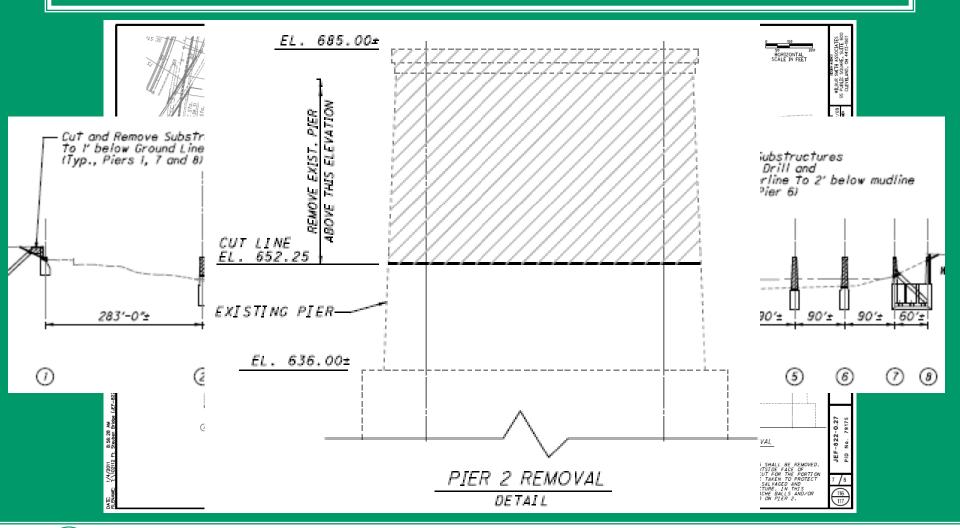


PROPOSED REMOVAL PLAN





PROPOSED REMOVAL PLAN CONTINUED





OBSERVATION DECK AT STEUBENVILLE MARINA



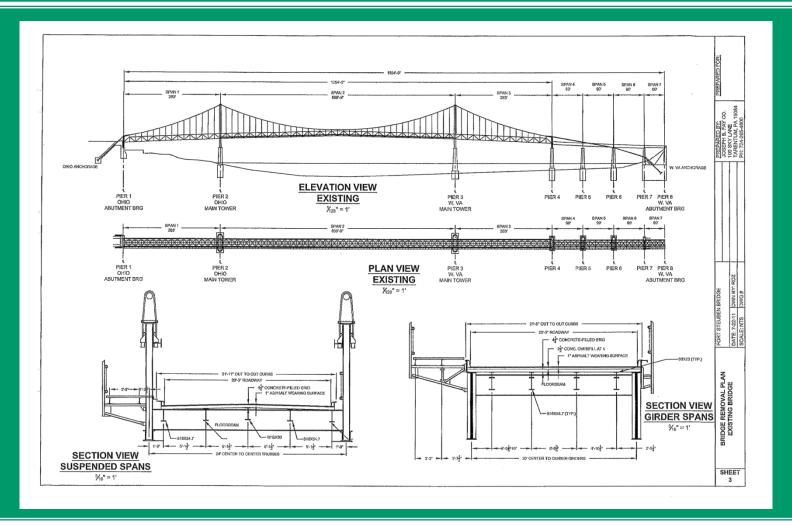


DEMOLITION CONTRACT

Successful Bidder:

- JOSEPH B. FAY COMPANY, FROM TARENTUM, PA
- PROJECT COST: \$2,259,059





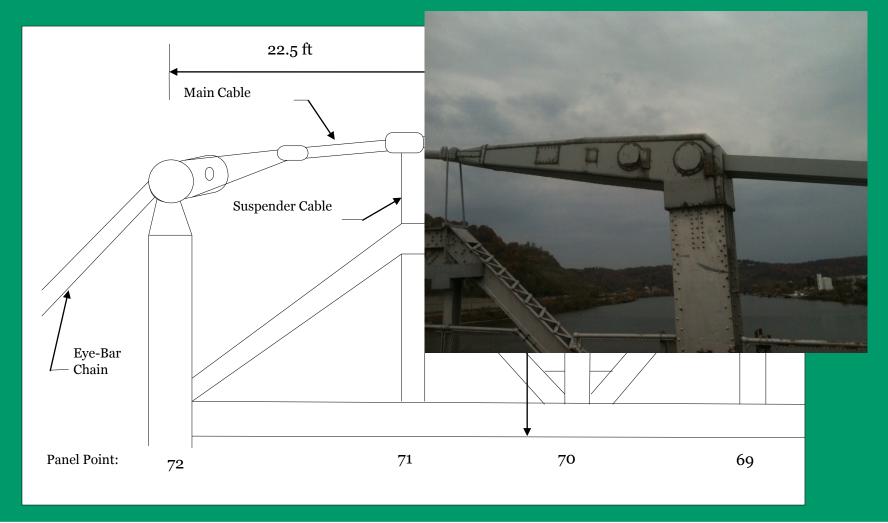


Non-Destructive Testing





Non-Destructive Testing



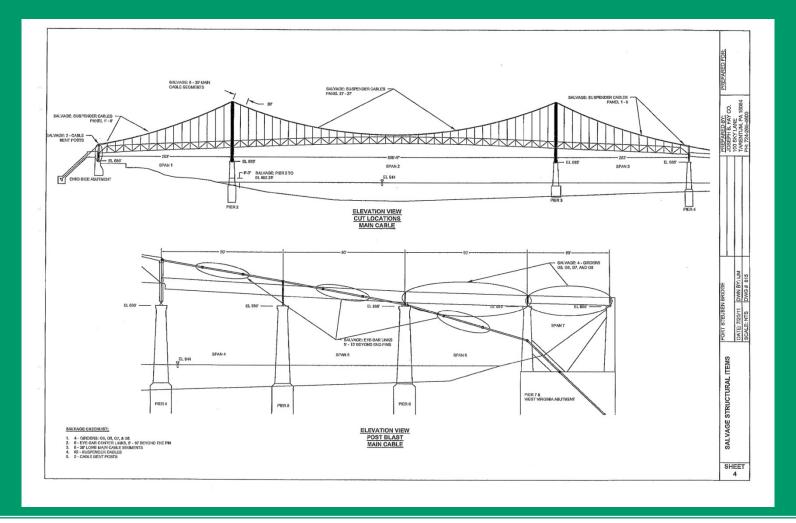


Non-Destructive Testing





STRUCTURAL ELEMENTS TO BE SALVAGED FOR RESEARCH





PHASE 1 — DECK REMOVAL





CONTRACTOR'S PROPOSED REMOVAL PLAN PHASE 1 – DECK REMOVAL



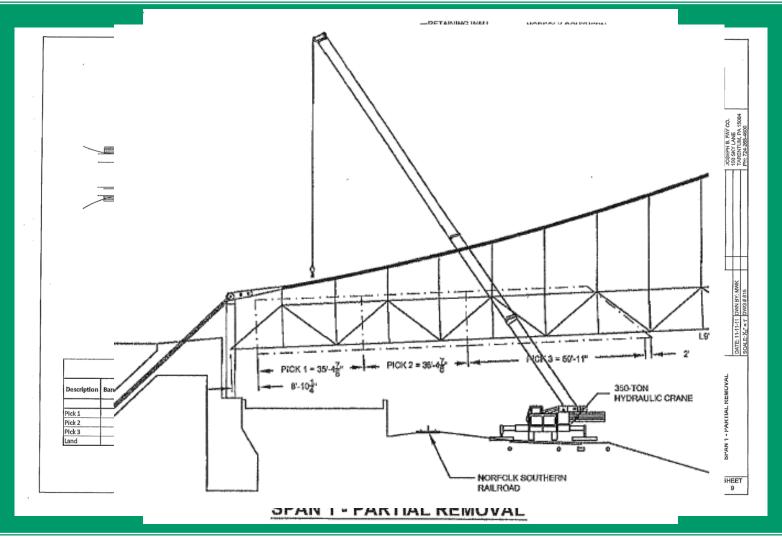


CONTRACTOR'S PROPOSED REMOVAL PLAN PHASE 1 — DECK REMOVAL





Phase 2 – Truss Removal over Railroad





Phase 2 – Truss Removal over RR (Ohio)





Phase 2 – Truss Removal (West Virginia)





Phase 2 – Truss Removal (West Virginia)



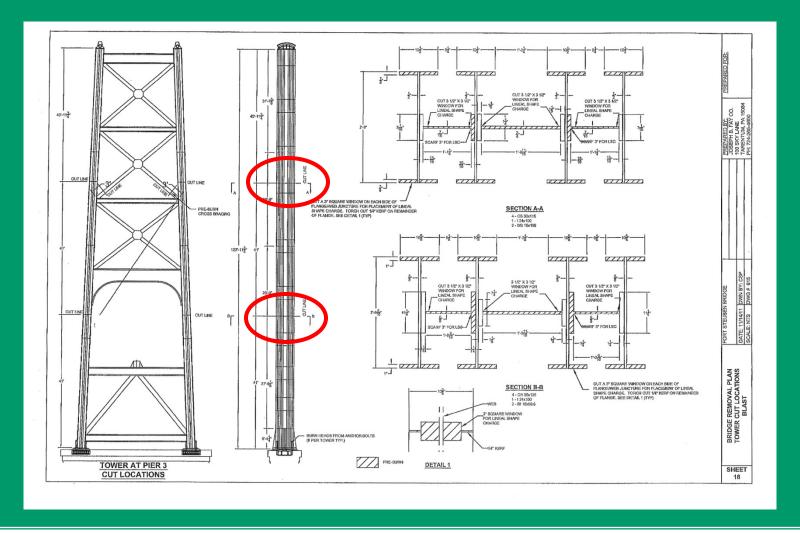


PHASE 2 — DECK REMOVAL MAIN SPAN





Phase 3 – Tower Cut Locations



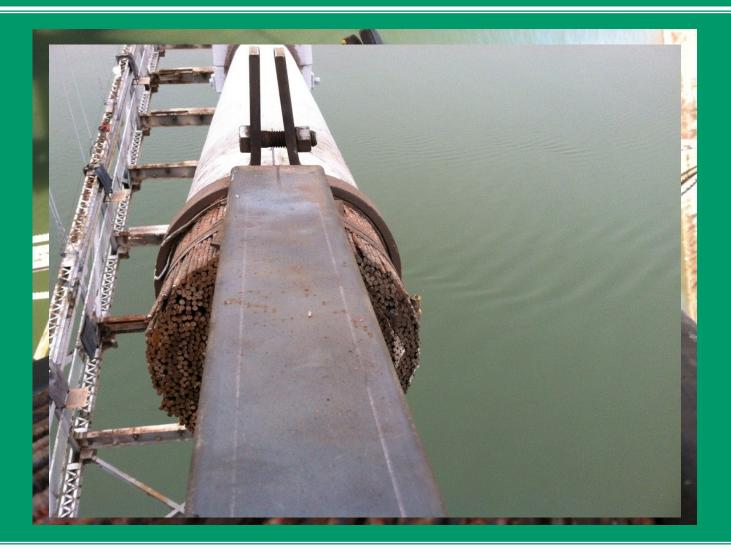


PHASE 3 — EXPLOSIVE PLACEMENT



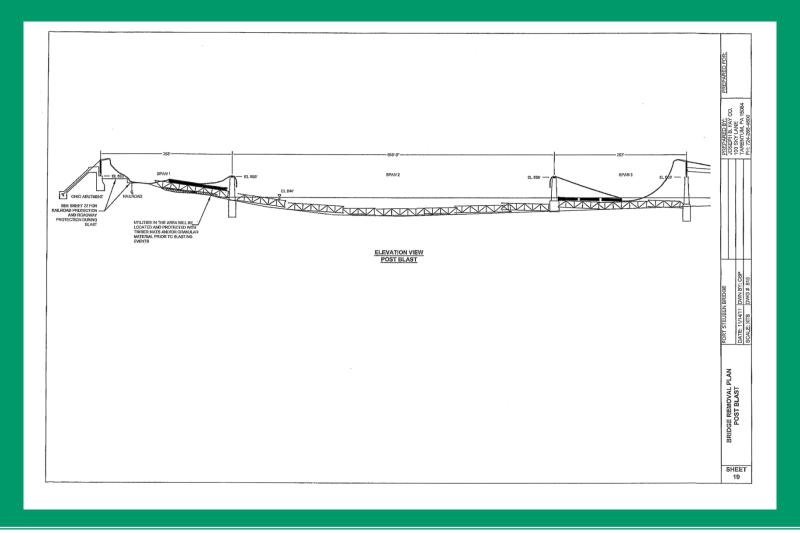


Phase 3 — Cable Pre Cutting



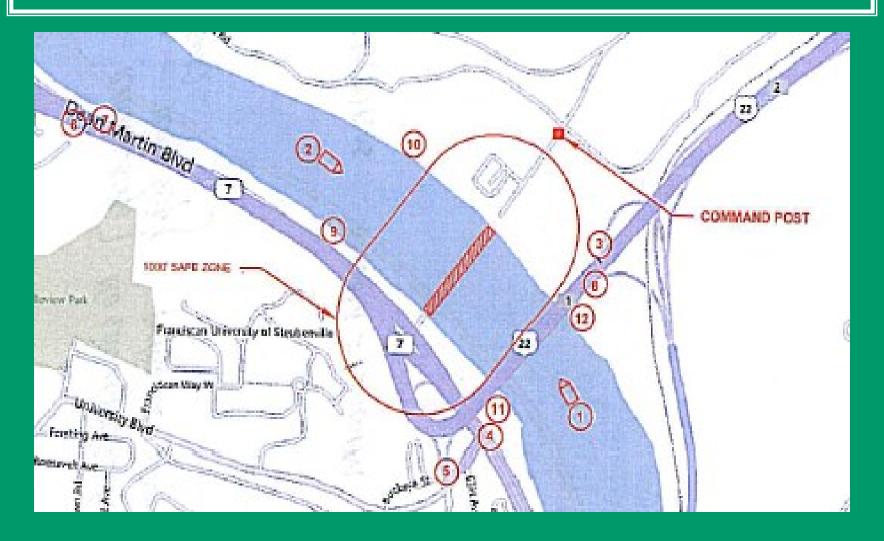


Phase 4 – Post Blast Condition





BLAST ZONE CONTROL PLAN



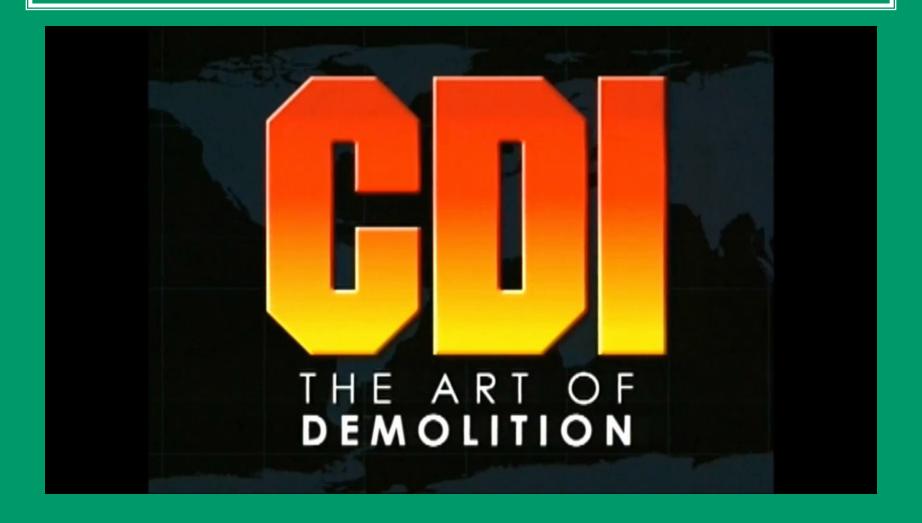


BLASTING OPERATION





CONTROLLED DEMOLITION, INC.





PHASE 4 — POST BLAST



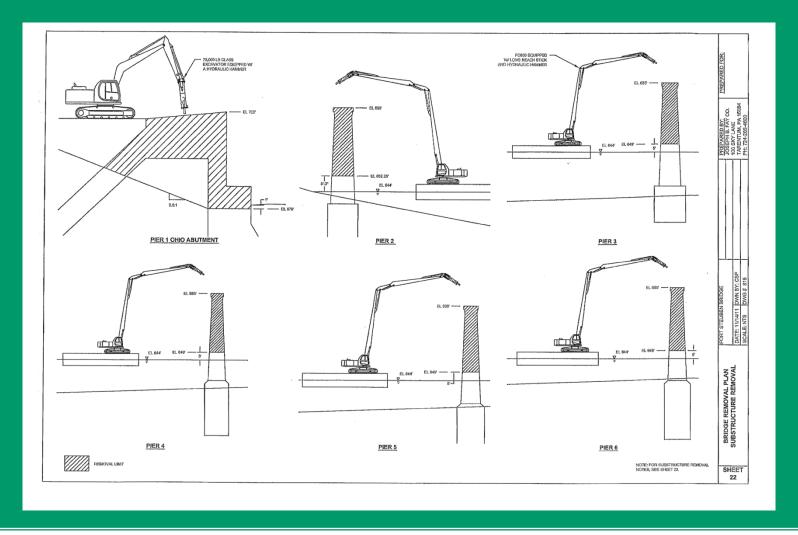


PHASE 4 — POST BLAST



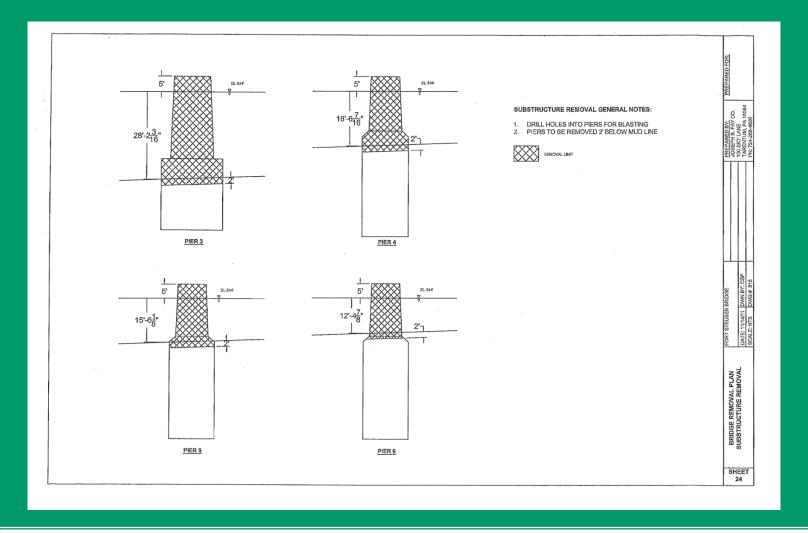


Phase 5 — Substructure Removal





Phase 5 — Substructure Removal





Phase 5 — Substructure Removal





OBSERVATION DECK STEUBENVILLE MARINA





CURRENT LANDSCAPE





WEST VIRGINIA





OHIO DEPARTMENT OF TRANSPORTATION

FORT STEUBEN BRIDGE DEMOLITION PROJECT

QUESTIONS?



JOHN R. KASICH, GOVERNOR

JERRY WRAY, DIRECTOR