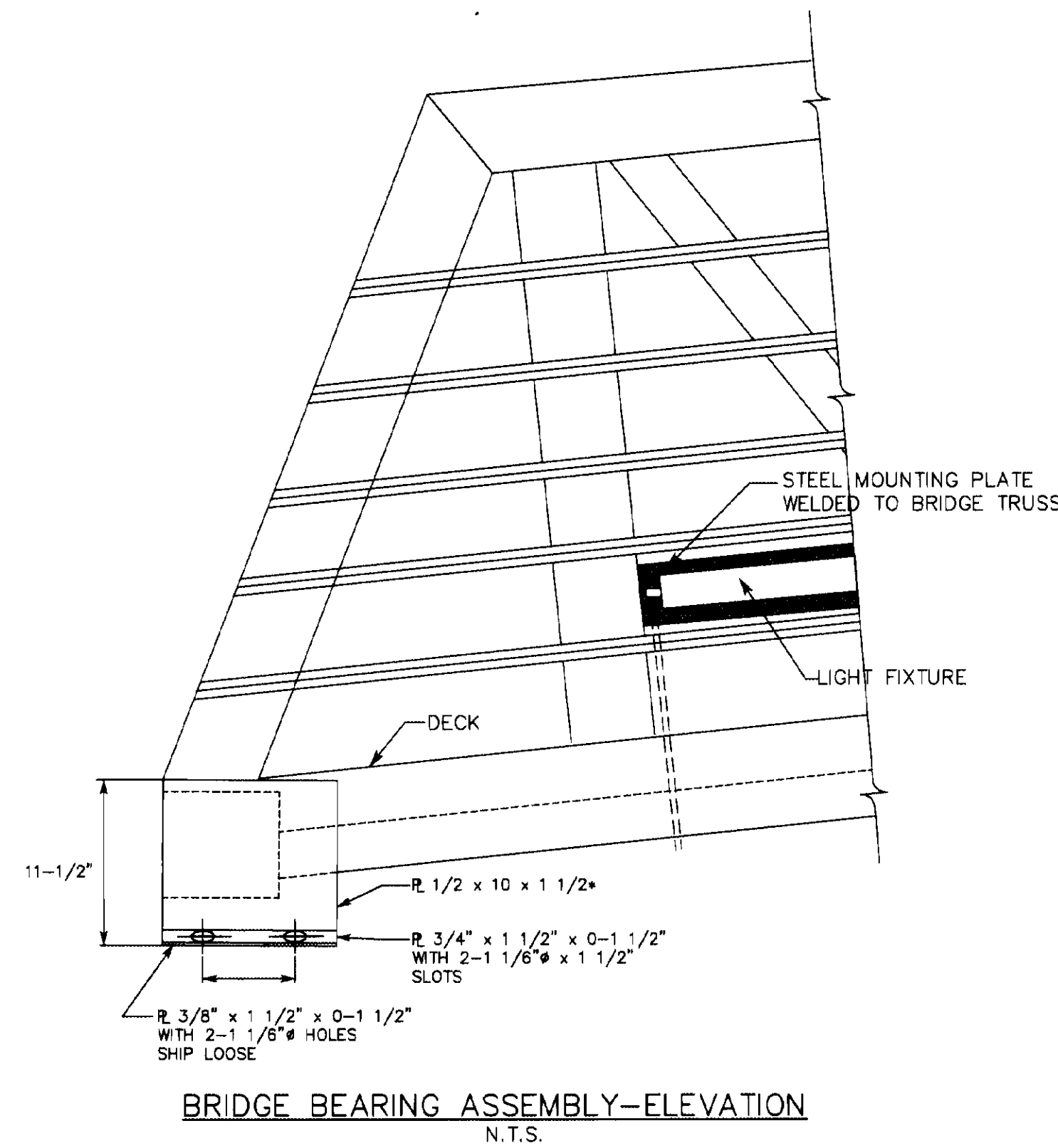
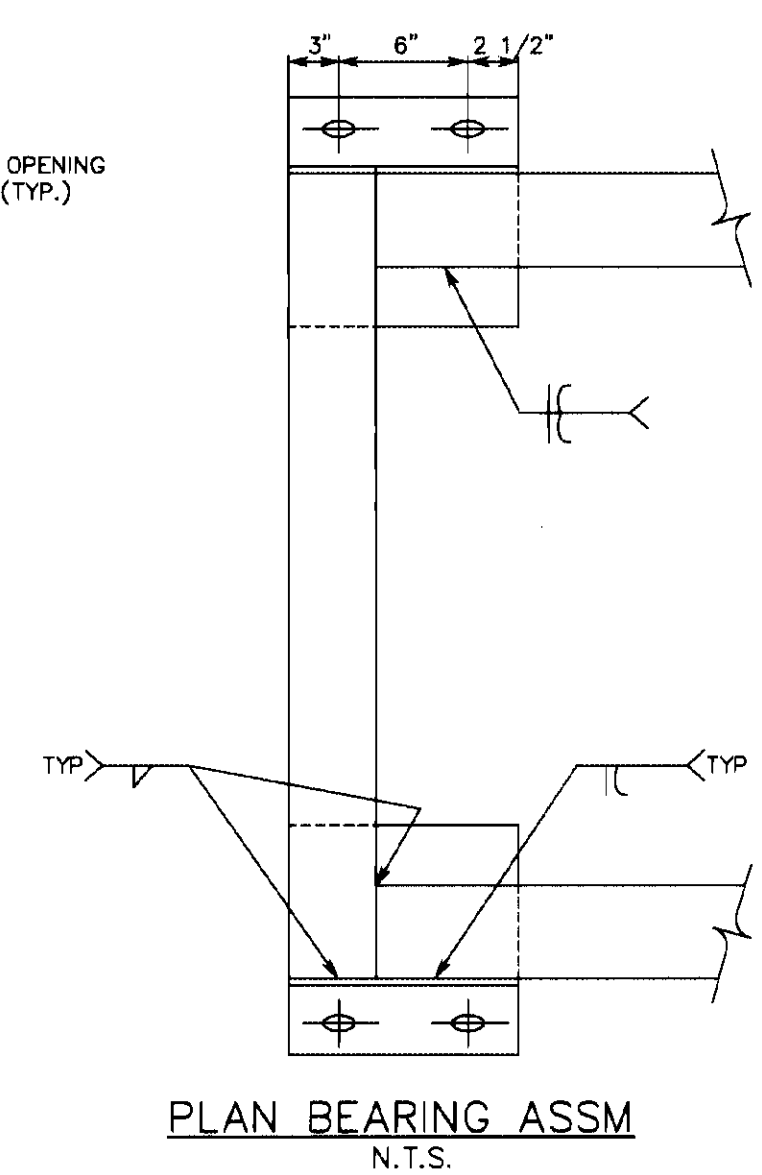
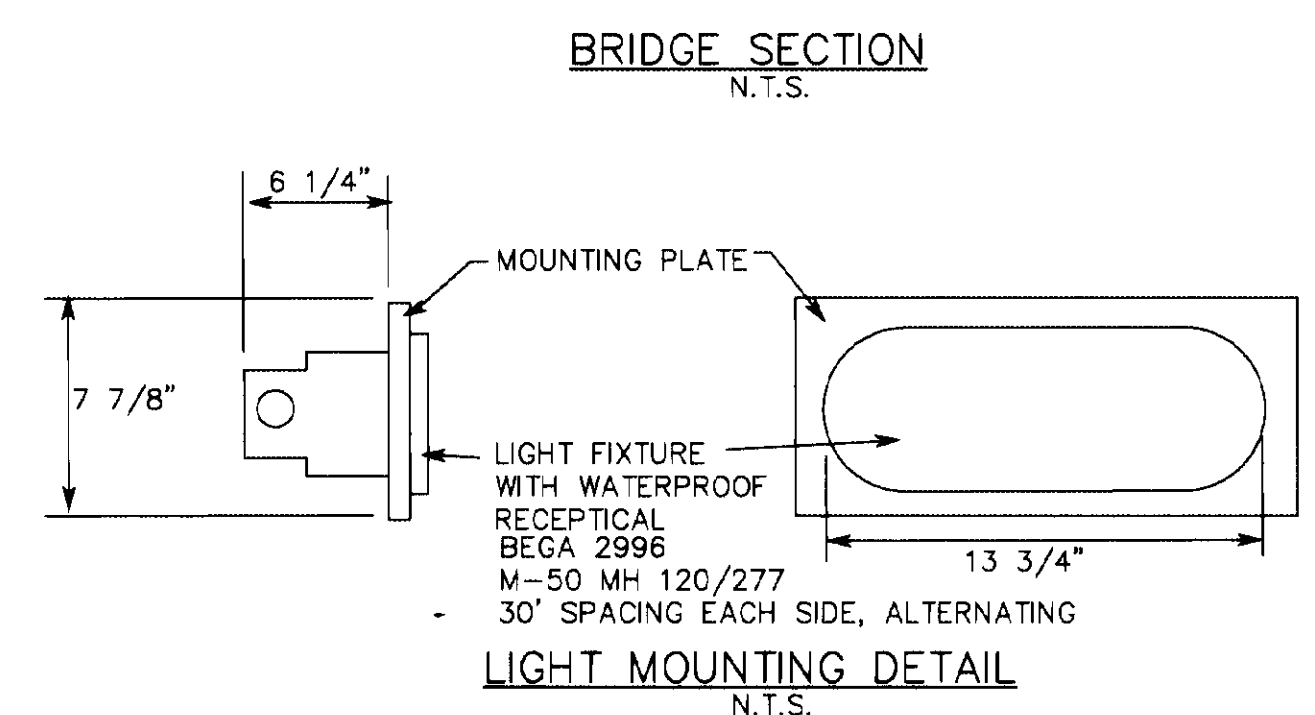
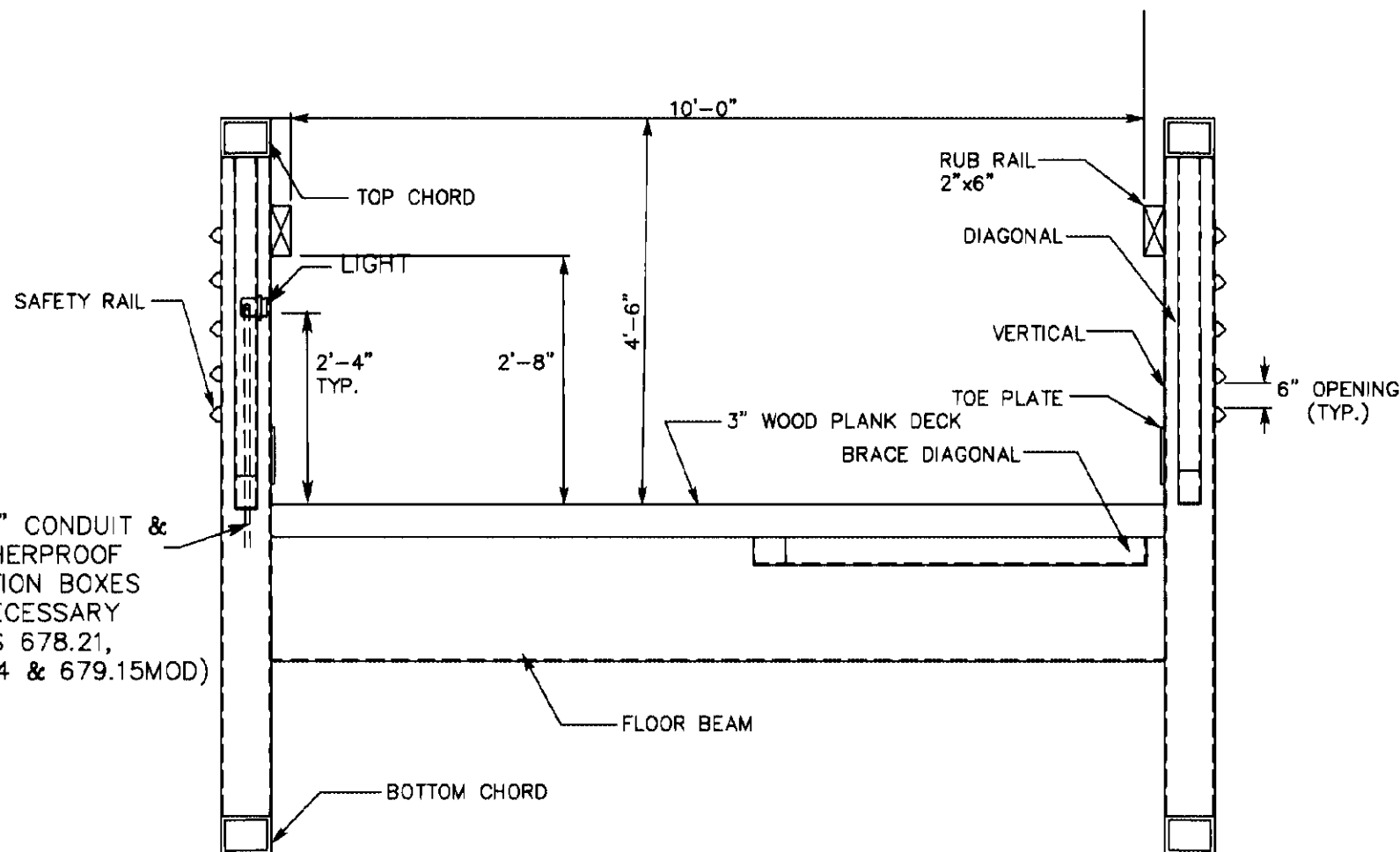


- NOTE:**
- 1.) APPROXIMATE DIMENSION ONLY. ACTUAL DEPTH OF STRUCTURE TO BE PROVIDED BY BRIDGE MANUFACTURER.
 - 2.) TOTAL LENGTH OF BRIDGE SHALL BE AS MEASURED AT 60F.
 - 3.) DEPTH OF STRUCTURE FROM BEARING TO TOP OF FINISHED DECK SHALL BE SUPPLIED BY BRIDGE MANUFACTURER TO CONTRACTOR FOR CONSTRUCTION OF ABUTMENTS.
 - 4.) PATH GEOMETRY ALLOWS FOR A MAXIMUM OF 1'-8" BETWEEN BRIDGE DECK AND BOTTOM CHORD ELEVATIONS AT ABUTMENTS TO INSURE INSTALLATION OF SUPERSTRUCTURE ABOVE 100 YEAR DESIGN FLOOD.



CONCRETE NOTES

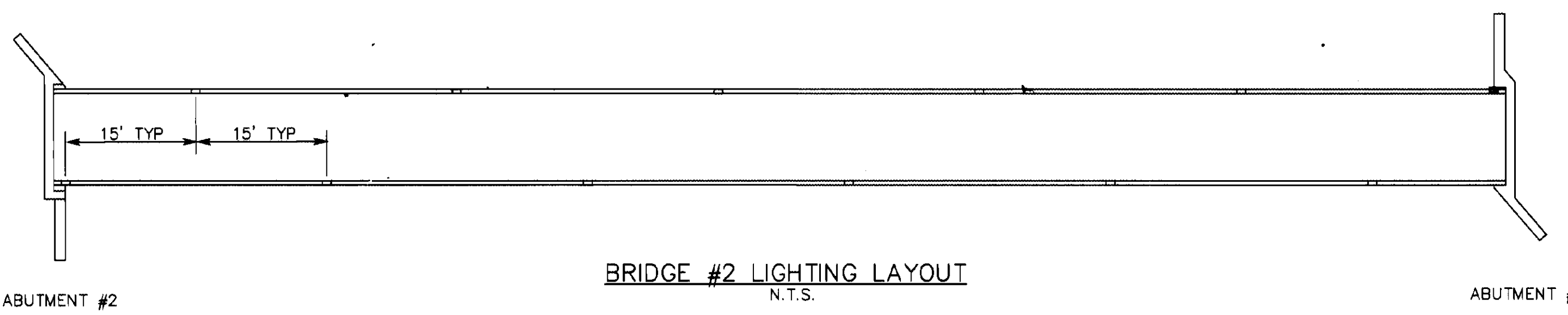
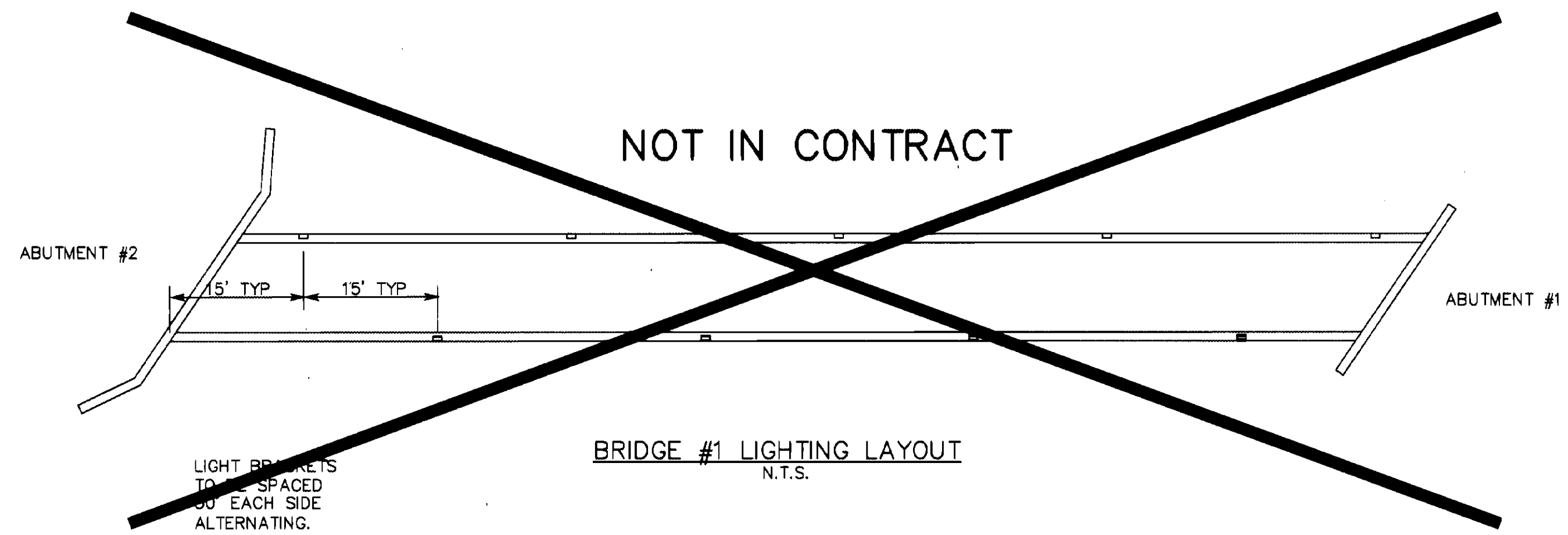
1. CLASSES OF CONCRETE SHALL BE AS FOLLOWS:
ABUTMENTS AND WINGWALLS: CLASS "B" CONCRETE
2. ALL PORTLAND CEMENT SHALL BE AIR-ENTRAINED.
3. ALL REINFORCING STEEL SHALL BE FURNISHED IN THE FULL LENGTH SHOWN ON THE PLANS. UNLESS OTHERWISE SHOWN ON THE PLANS, THE MINIMUM LAP FOR SPLICES SHALL BE AS FOLLOWS:

BAR SIZE	f _c = 3,500 PSI
#4 OR SMALLER	16 INCHES
#5	26
#6	31
#7	34
#8	45
#9	57
#11	89
4. ALL REINFORCING SHALL HAVE THE FOLLOWING COVER:
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH 3 INCHES
CONCRETE THAT IS TO BE FORMED AND THEN EXPOSED TO EARTH OR WEATHER
PRINCIPAL REINFORCEMENT 2 INCHES
5. ALL ANCHOR BOLTS SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH AASHTO M-111 & ASTM A123. FORMS FOR ANCHOR BOLTS SHALL BE PLACED PRIOR TO POURING CONCRETE.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING CONCRETE STAINS OR DISCOLORATIONS DURING CONSTRUCTION, UNTIL SUCH TIME AS THE SURFACES ARE APPROVED AND ACCEPTED. ANY CONCRETE STAINS OR DISCOLORATIONS OCCURRING PRIOR TO ACCEPTANCE OR APPROVAL **SHALL BE REMOVED AND THE SURFACE RESTORED BY THE CONTRACTOR AT HIS OWN EXPENSE**
7. HORIZONTAL CONSTRUCTION JOINTS OTHER THAN THOSE SHOWN ON THE PLANS WILL NOT BE PERMITTED, UNLESS AUTHORIZED BY THE ENGINEER.
8. CONCRETE SURFACE TREATMENT:
A. RUBBED FINISH SHALL BE PROVIDED ON ALL CONCRETE SURFACES VISIBLE IN ELEVATION, INCLUDING ALL EXPOSED SURFACES OR WINGWALLS TO ONE FOOT BELOW GROUND LINE.
B. FLOAT FINISH SHALL BE APPLIED TO THE BEAM SEATS AND TOPS OF WINGWALLS.
C. PROTECTIVE COMPOUND SHALL BE APPLIED TO ALL EXPOSED CONCRETE AREAS INCLUDING EXPOSED SURFACES OF WINGWALLS TO ONE FOOT BELOW GROUND LINE. (WATER REPELLENT #514.10)
9. ALL FORMS SHALL BE OF REMOVABLE TYPE THAT WILL PRODUCE THE DIMENSIONS OF THE PLANS.
10. ALL CONSTRUCTION JOINTS SHALL BE COATED WITH A THIN COATING OF MORTAR OR NEAT CEMENT GROUT IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

GENERAL NOTES

1. SPECIFICATIONS: VERMONT AGENCY OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION 1990 EDITION AND SPECIAL PROVISIONS.

BRIDGES (AASHTO 1989).
3. ALLOWABLE DESIGN STRESSES:
CLASS "A" & CLASS "B": BASED ON f_c = 3,500 PSI
REINFORCEMENT (ASTM A615 GRADE 60) f_s = 24,000 PSI
4. LIVE LOAD: 85 PSF UNIFORMLY DISTRIBUTED 172'x10'x85 PSF = 146,200 PSF
5. FUTURE PAVING ALLOWANCE: NONE.
6. REMAIN-IN-PLACE FORMS: THE USE OF REMAIN-IN-PLACE FORMS ON THIS STRUCTURE IS NOT ALLOWED.
7. CLASS "B" CONCRETE: CLASS "B" CONCRETE SHALL BE USED FOR THE ENTIRE SUBSTRUCTURE.
8. DECKING: BRIDGE DECK SHALL BE SINGLE LAYER, 3" THICK PRESSURE TREATED, WOOD PLANK, MATERIALS MEETING SECTION 709.01 AND SECTION 522.12 (g).
9. JOINT SEAL: SEE SPECIFICATIONS.
10. EXPOSED EDGES: EXPOSED EDGES OF CONCRETE SHALL BE BEVELED 1" X 1" UNLESS DIMENSIONED OTHERWISE.
11. REINFORCEMENT: ALL REINFORCEMENT SHALL BE ASTM A615 GRADE 60.
12. STRUCTURAL STEEL: WELDED TUBULAR STRUCTURE DESIGN SHALL BE IN ACCORDANCE WITH THE STRUCTURAL WELDING CODE (ANSI D1.1-8)-CHAPTER 10-TUBULAR STEEL. ALL STEEL TO CONFORM TO ASTM A847 FOR HIGH STRENGTH, SELF WEATHERING, LOW ALLOY, ATMOSPHERIC CORROSION RESISTANT, COLD FORMED, WELDED SQUARE AND RECTANGULAR TUBING, AND ASTM A588, ASTM A606 OR ASTM A242.
13. CONSTRUCTION JOINTS: CONSTRUCTION JOINTS, OTHER THAN THOSE SHOWN ON THE PLANS, WILL NOT BE PERMITTED WITHOUT THE PRIOR APPROVAL OF THE ENGINEER.
14. DECIMAL DIMENSIONS: WHEN DIMENSIONS ARE GIVEN TO LESS THAN THREE DECIMAL PLACES, THE OMITTED DIGITS SHALL BE ASSUMED TO BE ZEROS.
15. THE BRIDGE MANUFACTURER SHALL CERTIFY TO THE AGENCY THAT ALL DESIGN REQUIREMENTS WILL BE MET. ALL PLANS AND SHOP DRAWINGS SHALL BE STAMPED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF VERMONT.



BRIDGE SUPERSTRUCTURE DETAILS

FAX (802)-858-3829 **P.E.A.** BUS. (802)-658-5588
PINKHAM ENGINEERING ASSOCIATES, INC.
50 Joy Drive, P.O. Box 2225, South Burlington, VT 05407

SURVEYED BY	PEA	DATE	
DRAWN BY	JMM	DATE	
SQUAD LEADER			
DESIGN FILE NO.	6829DET6	DATE	4/9/97
PROJ. NAME	WINOOSKI RIVER WEST BIKEWAY BWM-BIKE(4)S	PLOTTED	
PROJ. NO.	6829		
SHEET	46	OF	132 SHEETS