

GENERAL NOTES DESIGN DATA

A. FILL AND BACKFILL

FOR ADDITIONAL INFO.

ANY PLACED MATERIAL SHALL BE COMPACTED WITH A MECHANICAL VIBRATOR TO A MINIMUM OF 95% PROCTOR DENSITY AS DEFINED BY ASTM D1557.

2. SEE PLANS FOR GRAVEL FILL REQUIREMENTS.

3. NO WALLS ARE TO BE BACKFILLED UNTIL CONCRETE HAS BEEN IN PLACE A MINIMUM OF 7 DAYS UNLESS DIRECTED BY THE ENGINEER.

B. CONCRETE

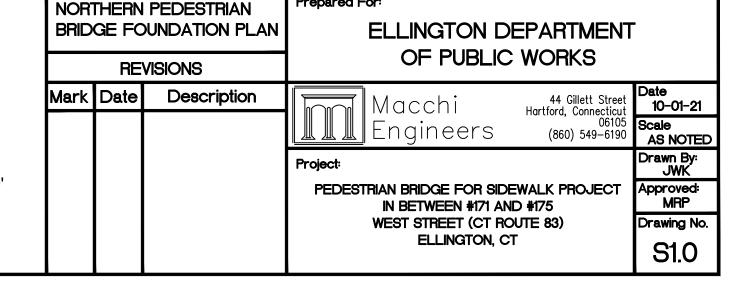
1. CONCRETE STRENGTH AT 28 DAYS SHALL BE AS INDICATED IN DESIGN DATA.

2. PROTECTIVE COVER, SPLICE LAP AND EMBEDMENT FOR REINFORCING STEEL SHALL BE PER ACI SPECIFICATION.

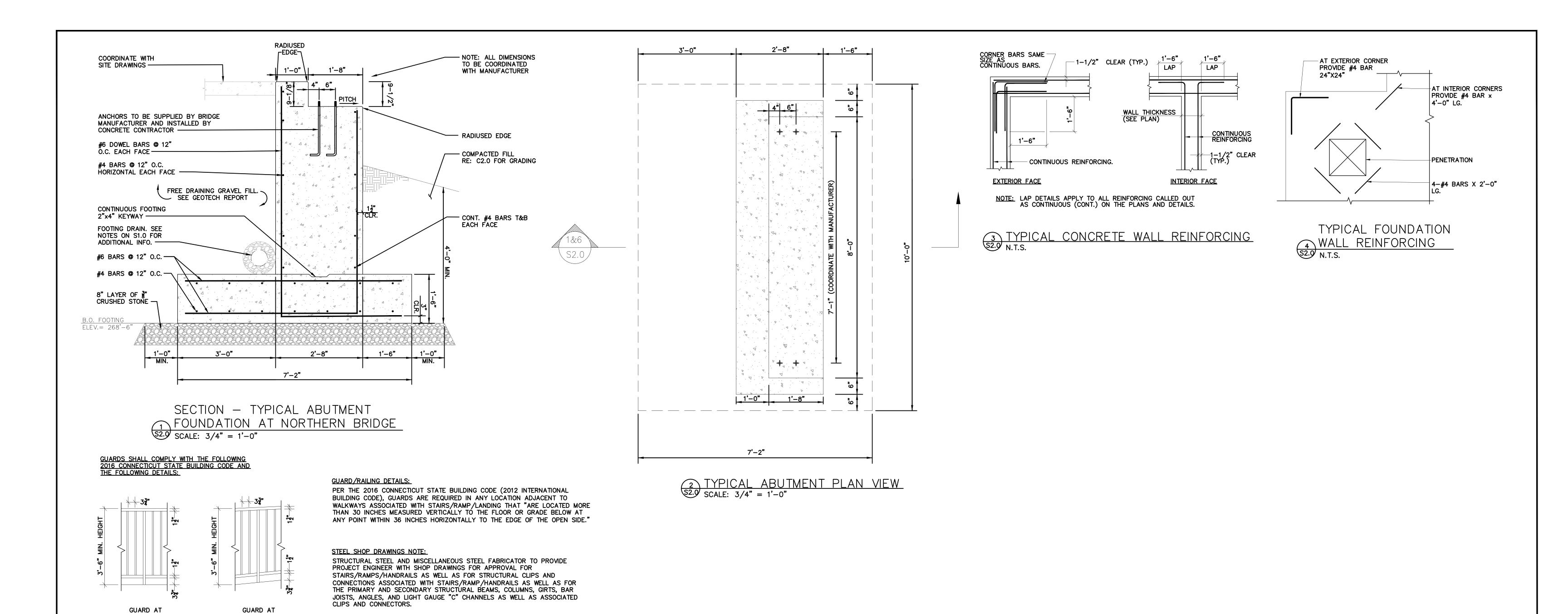
3. ALL DETAILING, FABRICATION AND ERECTION OF REINFORCING BARS MUST FOLLOW ACI

- 4. REINFORCING STEEL SHALL BE ASTM A615, GRADE 60.
- 5. NO TACK WELDING OF REINFORCING WILL BE PERMITTED.
- 6. UNLESS NOTED OTHERWISE, ALL LAP SPLICES SHALL BE CLASS B, IN ACCORDANCE WITH ACI 318-14.
- 7. NO CALCIUM CHLORIDE OR ADMIXTURES CONTAINING CHLORIDES SHALL BE USED IN THE
- 8. ALL HORIZONTAL STEEL SHOWN IN SECTIONS AND DETAILS SHALL BE CONTINUOUS, UNLESS OTHERWISE NOTED. ALL LAPS SHALL BE CLASS "B" SPLICES IN ACCORDANCE WITH ACI 318.
- 9. AT INTERSECTIONS OF REINFORCED CONCRETE WALLS, PROVIDE CORNER DOWELS OF SAME SIZE AND AT THE SAME SPACING AS THE SMALLER HORIZONTAL REINFORCING. DOWELS SHALL HAVE A CLASS B LAP WITH HORIZONTAL REINFORCING IN EACH DIRECTION. SEE DETAILS.
- 10. ALL KEYS IN CONCRETE WALLS SHALL BE 2X4 UNLESS NOTED OTHERWISE.
- 11. ALL CONCRETE TO REMAIN EXPOSED TO VIEW SHALL RECEIVE A SMOOTH RUBBED FINISH.
- 12. CONTRACTOR SHALL FOLLOW ACI REQUIRMENTS FOR ALL REINFORCING CLEARANCES

- 1. ELEVATION OF BOTTOM OF FOOTINGS TO BE VERIFIED WITH FIELD CONDITIONS. ALL FOOTINGS SHALL BE PLACED A MINIMUM OF 4'-0" BELOW FINAL GRADES.
- 2. ALL FOOTINGS TO BEAR ON FIRM, UNDISTURBED SOIL HAVING A SAFE BEARING CAPACITY AS STATED IN THE DESIGN DATA.
- 3. "FD" INDICATES 6" PERFORATED HDPE DRAIN WRAPPED WITH 12" OF WASHED 3/4" CRUSHED STONE AND FILTER FABRIC.
- D. FOUNDATIONS COORDINATE ALL WORK WITH GEOTECHNICAL REPORT
- 1. BACKFILLING SHALL BE ACCOMPLISHED TO EQUAL HEIGHTS ON BOTH SIDES OF THE FOUNDATION WALLS TO PREVENT MOVEMENTS DUE TO UNBALANCED EARTH PRESSURE. WHERE EARTH IS ON SIDE ONLY, BACKFILLING AND COMPACTION SHALL NOT START UNTIL ADEQUATE BRACING IS PROVIDED FOR WALL SUPPORT (EXCEPT AT RETAINING
- 2. REMOVAL OF UNSUITABLE SUBSOILS SHALL BE COORDINATED WITH GEOTECHNICAL
- 3. ALL CONTROLLED COMPACTED BACKFILL UNDER FOOTINGS AND WITHIN THE FOOTPRINT OF THE STRUCTURE SHALL BE COMPACTED TO 95% OF THE MODIFIED OPTIMUM
- 4. BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE ATLEAST 4'-0" BELOW FINISHED GRADE. PRIOR TO PROCEEDING WITH FOOTING EXCAVATION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF FINISH GRADES AND BOTTOM OF EXTERIOR FOOTING ELEVATIONS TO MAINTAIN THE 4'-0" FROST PROTECTION.
- 5. ALL SOIL SURROUNDING AND UNDER ALL FOOTINGS SHALL BE PROTECTED FROM FREEZING AND FROST ACTION DURING THE COURSE CONSTRUCTION.
- 6. WHERE SUBSURFACE PIPING PASSES THROUGH FOUNDATION WALLS, THE TOP OF THE FOOTINGS SHALL BE AT LEAST 8" BELOW THE INVERT ELEVATION OF THE PIPING AND CONDUITS COORDINATE ALL INVERTS WITH MECHANICAL, PLUMBING, FIRE PROTECTION. ELECTRICAL, SITE AND SITE UTILITY DRAWINGS.
- 7. KEEP FOUNDATION EXCAVATIONS FREE OF WATER AT ALL TIMES.
- 8. PLACEMENT OF ALL COMPACTED FILL MATERIALS MUST BE UNDER SUPERVISION OF AN APPROVED TESTING LABORATORY OR GEOTECHNICAL ENGINEER. CONCRETE FOUNDATIONS SHALL NOT BE PLACED UNTIL SUBGRADE HAS BEEN CHECKED IN PLACE AND APPROVED BY A TESTING LABORATORY OR GEOTECHNICAL ENGINEER.
- 9 EXISTING ON-SITE EXCAVATED MATERIALS SHALL NOT BE ACCEPTABLE BACKFILL MATERIAL FOR BACKFILLING OF FOUNDATION WALLS, OR WITHIN 2 FEET OF PAVEMENT GRADES UNLESS APPROVED BY THE GEOTECHNICAL ENGINEER
- 10. THE FOUNDATION DESIGN OF THE STRUCTURE HAS BEEN PREPARED BASED ON THE SOIL BORINGS, SOILS REPORT AND RECOMMENDATIONS PROVIDED BY THE GEOTECHNICAL ENGINEER, WELTI GEOTECHNICAL, P.C., DATED AUGUST 12, 2021. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW THE MATERIAL PRIOR TO PREPARING HIS BID TO ASSURE HE UNDERSTANDS THE SOIL CONDITIONS AND THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER.
- 11. THE FOUNDATION DESIGN OF THE STRUCTURE HAS BEEN PREPARED BASED ON THE SITE GRADING PLAN PREPARED BY J.R. RUSSO & ASSOCIATES, LLC. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW THE DRAWINGS PRIOR TO PREPARING HIS BID TO ASSURE HE UNDERSTANDS THE SITE CONDITIONS AND THE REQUIREMENTS OF THE SITE ENGINEER.
- 12. NO WALLS ARE TO BE BACKFILLED FOR A MINIMUM OF 3 DAYS AFTER CONCRETE PLACEMENT UNLESS APPROVED BY THE ENGINEER.
- E. STRUCTURAL STEEL
- 1. ALL WELDING TO BE PERFORMED BY AWS CERTIFIED WELDERS AND IN ACCORDANCE WITH ALL AWS STANDARDS.
- 2. ALL WELDING TO BE PERFORMED USING E70-XX ELECTRODES.
- 3. THE STEEL ERECTOR IS RESPONSIBLE FOR SUPPLYING TEMPORARY BRACING AND GUYING OF STEEL FRAMING UNTIL ALL CONNECTIONS AND FLOORING HAVE BEEN COMPLETED.

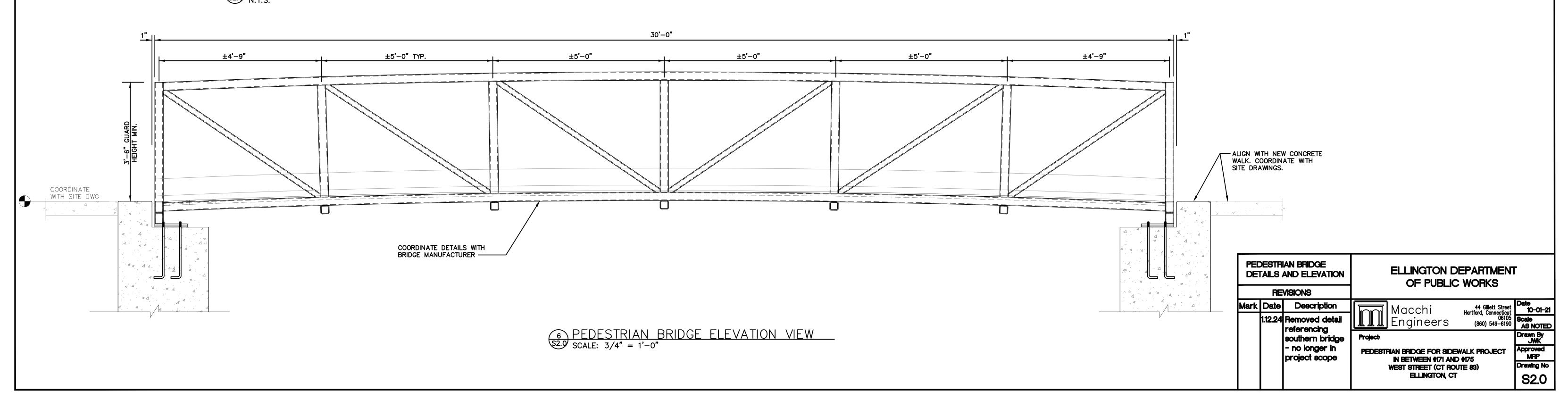


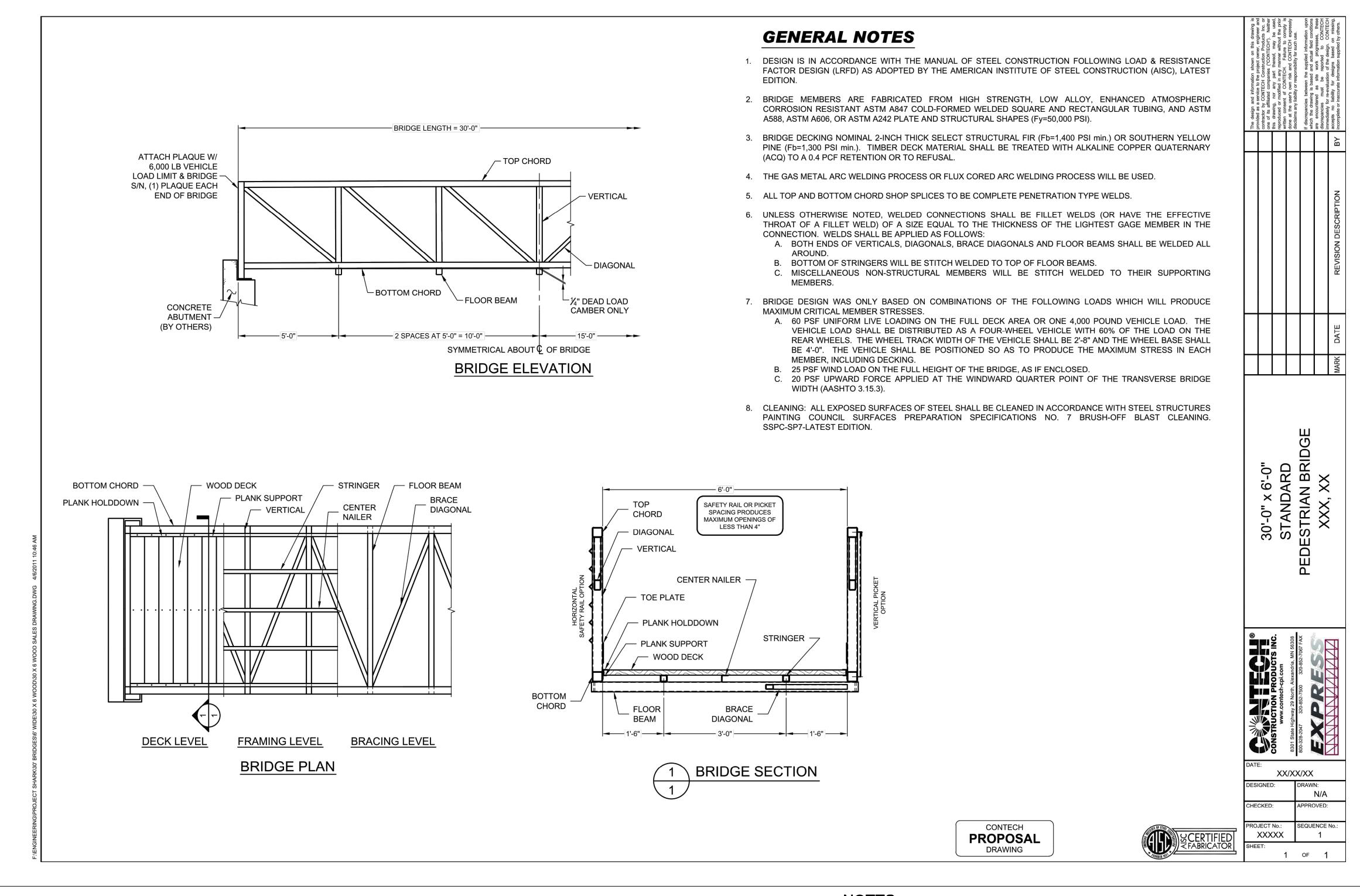






LANDING/WALKWAY





NOTES:

- 1. PROVIDED PEDESTRIAN BRIDGE INFORMATION IS FOR REFERENCE ONLY. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING A DELEGATED DESIGN TO MEET OR EXCEED THE 2018 CONNECTICUT BUILDING CODE. THE DESIGN SHALL BE SIGNED AND SEALED BY A LICENSED CT P.E.
- 2. REFER TO DRAWING S1.0 FOR DESIGN PERAMETERS.
- 3. THE BRIDGE SHALL BE SECURED TO THE CONCRETE ABUTMENTS PER DETAILS ON S2.0 AND MANUFACTURER'S RECOMMENDATIONS.



BASIS OF DESIGN PEDESTRIAN BRIDGE			Prepared For: ELLINGTON DEPARTMENT	
REVISIONS			OF PUBLIC WORKS	
Mark	Date	Description	Macchi 44 Gillett Street Hartford, Connecticut	Date 10-01-21
			Engineers (860) 549-6190	Scale AS NOTED
			Project:	Drawn By: JWK
			PEDESTRIAN BRIDGE FOR SIDEWALK PROJECT IN BETWEEN #171 AND #175	Approved: MRP
			WEST STREET (CT ROUTE 83)	Drawing No.
			ELLINGTON, CT	S3.0