Chapter 00

GENERAL (GEN)
GENERAL NOTES

SPECIFICATIONS: MDOT SHA STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, DATED JULY 20XX.


LOADING: HL-93 WITH PROVISIONS FOR FUTURE 2" WEARING SURFACE AND 15 lbs/sq. ft. FOR USE OF STEEL BRIDGE DECK FORMS WHICH REMAIN IN PLACE.

LOADING: HL-93 WITH PROVISIONS FOR FUTURE 2" WEARING SURFACE AND 15 lbs/sq. ft. FOR USE OF STEEL BRIDGE DECK FORMS WHICH REMAIN IN PLACE FOR STRINGERS NUMBER XX - XX.

LOAD RESTRICTIONS: THERE ARE RESTRICTIONS FOR PLACEING EQUIPMENT AND MATERIALS ON EXISTING AND NEW STRUCTURES, REFER TO SECTION TC 6.4.

CONCRETE: CONCRETE COMPRESSION STRENGTH FOR DESIGN SHALL BE:

- f'c = 4000 psi FOR ELEMENTS USING MIX NO. 3
- f'c = 6000 psi FOR ELEMENTS USING MIX NO. 6

ALL CONCRETE FOR ABUTMENT BACKWALLS, PARAPETS AT ABUTMENT WING WALLS AND ENTRANCE SUPERSTRUCTURE(S) SHALL BE MIX NO. 6 (4500 PSI) CONTAINING SYNTHETIC FIBERS (SEE SECTION 902.15.01).

ALL CONCRETE FOR EXPANSION JOINT CROSS BEAMS AND TOP PORTION OF EXPANSION JOINT CROSS BEAM SUPPORT COLUMNS SHALL BE MIX NO. 6 (4500 PSI).

ALL OTHER STRUCTURE CONCRETE EXCEPT PRESTRESSED CONCRETE SHALL BE MIX NO. 3 (3500 PSI). ALL CONCRETE FOR SUPERSTRUCTURE OVERLAYS SHALL BE LATEX MODIFIED CONCRETE PER SECTION 902.15.02.

ALL CONCRETE IN THE TOP SLAB SHALL BE MIX NO. 3 (3500 PSI). ALL OTHER CONCRETE SHALL BE MIX NO. 3 (3500 PSI). ALL CONCRETE FOR PARAPETS AND MOMENT SLOTS ON WALLS AND RETAINING WALLS WITHIN 10 FT OF THE PAVED ROADWAY SHALL BE MIX NO. 6 (4500 PSI) CONTAINING SYNTHETIC FIBERS (SEE SECTION 902.15.01).

PRESTRESSED CONCRETE: CONCRETE COMPRESSION STRENGTH FOR DESIGN SHALL BE:

- f'c = 5000 psi FOR ELEMENTS USING MIX NO. 3
- f'c = 8000 psi FOR ELEMENTS USING MIX NO. 6

ALL PRESTRESSED CONCRETE SHALL BE SELF-CONCRETING WITH A 28-DAY COMpressive STRENGTH OF f'c = 8000 psi.

REINFORCING STEEL: REINFORCING STEEL SHALL CONFORM TO ASTM A 615 GRADE 60 WITH A YIELD STRENGTH FOR DESIGN OF 60,000 PSI.

ALL SPLICES, NOT SHOWN, SHALL BE LAPPED AS PER BAR LAP CHARTS.

REINFORCING STEEL SHALL BE EPOXY COATED WHEN NOTED WITH AN A in the plans, EXCEPT FOR COLUMN STEEL EXTENDING INTO CAP UNLESS COLUMN IS NOT INCLUDED, REMOVE WITHIN 10 FT IF THE PAVED ROADWAY.

MINIMUM CLEAR COVER FOR REINFORCING STEEL SHALL BE 2" EXCEPT FOR THE FOLLOWING LOCATIONS:

LOCATION | CLEAR COVER
--- | ---
Bottom of bridge deck slabs. | 1 IN.
Top of bridge deck slab. | 1 1/2 IN.
Bottom flange of prestressed concrete girders. | 2 1/2 IN.
Top of girders, Bottom flange of prestressed concrete girders, Bottom ends of all fillings. | 3 IN.
Bottom of prestressed concrete slabs. | 3 IN.

FOR TIES AND STIRRUPS, STANDARD ACCELERATING TOLERANCES ARE MODIFIED TO PLUS 1/4 INCHES, MINUS 1/4 NORMAL ACCELERATING TOLERANCES.

COLUMN SPIRALS SHALL BE COLD DRAINED STEEL PIPE CONFORMING TO A BE OR DRAINED CONCRETE STEEL CONFORMING TO A BE DRAIN PIPE.

COLUMN SPIRALS SHALL NOT BE USED. COLUMN SPIRALS SHALL BE LAPPED 48 BAR OR MORE.

SPIRALS AT ALL SPACES SHALL BE EXTENDED FROM TOP OF FOOTING TO BOTTOM OF BOTTOM MAT OF REINFORCING STEEL IN CAP OF STRUCTURE HIERED. ALL SPIRALS ON STRUCTURE HIERED SHALL HAVE A MINIMUM OF 1-1/2 TURN, EXCEPT FOR A 2 IN. SPACE AT THE TOP AND AT THE BOTTOM (AT FOOTING AND IN CAP).
STRUCTURAL STEEL:

NEW STRUCTURAL STEEL SHALL CONFORM TO A 709, GRADE 50, INCLUDING THE ADDITIONAL REQUIREMENTS FOR CHAPAY V-NUCH TESTING OF M 270, FOR PRIMARY LOAD CARRYING MEMBERS. REFER TO SECTION 909.01.

EXISTING STRUCTURAL STEEL CONFORMS TO LIST SPECIFICATION AND GRADE IF KNOWN, A 709 GRADE 36.

NEW STRUCTURAL STEEL SHALL CONFORM TO A 709, GRADE 50 FOR ALL NEW STRUCTURAL STEEL INCLUDING THE ADDITIONAL REQUIREMENTS FOR CHAPAY V-NUCH TESTING OF M 270 FOR PRIMARY LOAD CARRYING MEMBERS. REFER TO SECTION 909.01, ALL EXISTING STRUCTURAL STEEL CONFORMS TO XX LIST SPECIFICATION AND GRADE IF KNOWN, A 709 GRADE 36.

CUTTING AND CLEANING:

REFER TO MD SPECIFICATION SECTION 335 FOR NEW STRUCTURAL STEEL OR 346 FOR EXISTING STRUCTURAL STEEL.

THE COLOR FOR THE FINISH COAT SHALL MATCH AWS D1.1-95, SECTION NO. 2070 (GRAY) OR 2073 (BLUE) OR 2004 (BROWN) PAINT SYSTEM XX.

TIMBER:

ALL TIMBER SHALL BE PRESSURE TREATED SOUTHERN YELLOW PINE SELECT STRUCTURAL OR BETTER. UNLESS OTHERWISE NOTED, ALL TIMBER SHALL BE OF NORMAL SIZE CROSS SECTION AS INDICATED ON THE PLANS WITH MINIMUM STRENGTH VALUES OF:

- Fb = *** psi
- Fv = *** psi
- E = *** psi

ROUND TIMBER:

ALL TIMBER PILES SHALL BE PRESSURE TREATED WITH THE EXCEPTION OF PILES USED IN BURIED FOUNDATIONS.

FRAGMENT:

THIS STRUCTURE CONTAINS CRITICAL FRAGMENT OF THESE MEMBERS. SEE SHEET(S) XXX FOR IDENTIFICATION OF THESE MEMBERS.

WORK REQUIRED:

XX

CONCRETE:

FOR SURFACE CONCRETE REPAIRS TO ADDRESS SPALLING, USE MK NO. 5, 10,000 PSA CONCRETE OR EQUAL FOR MAIN REPAIR, MK NO. 6, 5,000 PSA CONCRETE OR EQUAL, AND MK NO. 6, 4,500 PSA CONCRETE OR EQUAL.

WELDING:

ALL WELDING SHALL CONFORM TO SPECIFICATION SECTIONS 410.03.19 AND 410.03.20. ALL FIELD WELDING SHALL BE RADIOGRAPHICALLY INSPECTED AND ULTRASONICALLY INSPECTED AT 100%.

PRESTRESSING:

PRESTRESSING BARS SHALL BE G500, 1 1/2" DIAMETER, E = *** psi. THE COLOR SYSTEM SHALL BE APPROVED BY THE ENGINEER.

JACKING:

JACKING MAY NOT BE PERFORMED UNDER TRAFFIC. JACKING MAY HAVE A MINIMUM SAFE CAPACITY OF 40 TONS.

MAINTENANCE OF TRAFFIC:

REFER TO DETOUR ON SHEET XX.

WORK REQUIRED:

XX

THE FOLLOWING NOTES SHALL BE INCLUDED WITH THE GENERAL NOTES WHEN SUCH WORK IS INCLUDED IN THE CONTRACT.

CONCRETE:

FOR SURFACE CONCRETE REPAIRS TO ADDRESS SPALLING, USE MK NO. 5, 10,000 PSA CONCRETE OR EQUAL FOR MAIN REPAIR, MK NO. 6, 5,000 PSA CONCRETE OR EQUAL, AND MK NO. 6, 4,500 PSA CONCRETE OR EQUAL.

WELDING:

ALL WELDING SHALL CONFORM TO SPECIFICATION SECTIONS 410.03.19 AND 410.03.20. ALL FIELD WELDING SHALL BE RADIOGRAPHICALLY INSPECTED AND ULTRASONICALLY INSPECTED AT 100%.

PRESTRESSING:

PRESTRESSING BARS SHALL BE G500, 1 1/2" DIAMETER, E = *** psi. THE COLOR SYSTEM SHALL BE APPROVED BY THE ENGINEER.

JACKING:

JACKING MAY NOT BE PERFORMED UNDER TRAFFIC. JACKING MAY HAVE A MINIMUM SAFE CAPACITY OF 40 TONS.

MAINTENANCE OF TRAFFIC:

REFER TO DETOUR ON SHEET XX.

WORK REQUIRED:

XX

THE FOLLOWING NOTES SHALL BE INCLUDED WITH THE GP&E, AS NECESSARY, BUT DO NOT HAVE TO BE LOCATED WITH THE GENERAL NOTES UNLESS SPACE ALLOWS.

CONSTRUCTION NOTES:

CUTTING AND CLEANING:

ALL DIMENSIONS AFFECTED BY THE GEOMETRY AND/OR LOCATION OF THE STRUCTURE(S) EXCEPT STRUCTURE(S) SHALL BE CHECKED IN THE FIELD BY THE CONTRACTOR BEFORE ANY MATERIAL IS ORDERED OR FABRICATED OR CONSTRUCTION BEGINS.

CUTTING AND CLEANING:

NO CONSTRUCTION EQUIPMENT SHALL BE PERMITTED TO PASS OVER THE CULVERT/Pipe UNLESS A MINIMUM OF 3 FEET OF COMPACTED FILL HAS BEEN PLACED OVER THE CULVERT.

CUTTING AND CLEANING:

NO CONSTRUCTION EQUIPMENT SHALL BE PERMITTED TO PASS OVER THE CULVERT/Pipe UNLESS A MINIMUM OF 3 FEET OF COMPACTED FILL HAS BEEN PLACED OVER THE CULVERT.

GENERAL NOTES

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF STRUCTURES

APPROVAL

DIRECTOR
OFFICE OF STRUCTURES

DATE:
12/18/2019

VERSION
1.02

DETAIL NO. GEN-101

SHEET 2 OF 2

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