

PRELIMINARY INFORMATION SHEET (BRIDGE)

LRFD

INDEX OF SHEETS

FINAL HYDRAULIC REPORT

PLAN SHEETS

STANDARDS LIST

TRAFFIC MAINTENANCE NOTES

1. MAINTAIN TRAFFIC ON AN OFF SITE DETOUR.
2. TRAFFIC SIGNALS ARE NOT NECESSARY.
3. SIDEWALKS ARE NOT NECESSARY

DESIGN VALUES

- | | |
|--|---------------------|
| 1. DESIGN LIVE LOAD | HL-93 |
| 2. FUTURE PAVEMENT | d_p : 3.0 INCH |
| 3. DESIGN SPAN | L : 128.00 FT |
| 4. MIN. MID-SPAN POS. CAMBER @ RELEASE (PRESTRESSED UNITS) | Δ : --- |
| 5. PRESTRESSING STRAND (0.375 INCH DIAMETER - LOW RELAX) | f_y : 270 KSI |
| 6. PRESTRESSED CONCRETE STRENGTH | f'_{ci} : 5.0 KSI |
| 7. PRESTRESSED CONCRETE RELEASE STRENGTH | f'_{ci} : 4.0 KSI |
| 8. CONCRETE, HIGH PERFORMANCE CLASS AA | f'_{ci} : 4.0 KSI |
| 9. CONCRETE, HIGH PERFORMANCE CLASS A | f'_{ci} : 4.0 KSI |
| 10. CONCRETE, HIGH PERFORMANCE CLASS B | f'_{ci} : 3.5 KSI |
| 11. CONCRETE, CLASS C | f'_{ci} : 3.0 KSI |
| 12. REINFORCING STEEL | f_y : 60 KSI |
| 13. STRUCTURAL STEEL AASHTO M270 (WEATHERING) | f_y : 50 & 70 KSI |
| 14. NOMINAL BEARING RESISTANCE OF SOIL | q_n : 30.4 KSF |
| 15. SOIL BEARING RESISTANCE FACTOR (REFER TO AASHTO LRFD) | ϕ : 0.45 |
| 16. NOMINAL BEARING RESISTANCE OF ROCK | q_n : 120.0 KSF |
| 17. ROCK BEARING RESISTANCE FACTOR (REFER TO AASHTO LRFD) | ϕ : 0.45 |

LRFR LOAD RATING FACTORS

LOADING LEVELS	TRUCK						
	H-20	HL-93	3S2	6 AXLE	3A STR.	4A STR.	5A SEMI
TONNAGE	20	36	36	66	30	34.5	38
INVENTORY	3.21	1.31					
POSTING							
OPERATING	4.16	1.69	2.77	1.67	2.86	2.52	2.90
COMMENTS:							

AS BUILT "REBAR" DETAIL

LEVEL I	LEVEL II	LEVEL III
TYPE:	TYPE:	TYPE:
GRADE:	GRADE:	GRADE:

TRAFFIC DATA

YEAR	ADT	DHV	% D	% T	ADTT	
2015	7600	1200	100	10	1000	20 year ESAL for flexible pavement from 2015 to 2035 : 7165000
2035	9100	1500	100	14.8	1800	40 year ESAL for flexible pavement from 2015 to 2055 : 17331000

Design Speed : 65 mph

PROJECT NAME: **HARTFORD**
PROJECT NUMBER: **IM 091-2 (79)**

FILE NAME: s12a132pi.dgn PLOT DATE: 12/16/2014
PROJECT LEADER: K. HIGGINS DRAWN BY: K. FRIEDLAND
DESIGNED BY: W. LAMMER CHECKED BY: J. SALVATORI
BRIDGE 43N PRELIMINARY INFORMATION SHEET SHEET 3 OF 166