

# GENERAL NOTES

FHWA REGION	STATE	PROJECT	
5	OHIO		

LAKE COUNTY  
LAK - 84 - 14.48

IN LIEU OF THE REQUIREMENTS OF 847.11 THE GLASS BEAD INDEX OF REFRACTION, % ROUNDS BY COUNT AND SIEVE GRADUATION SHALL BE AS FOLLOWS:

DROP-ON GLASS:

1. INDEX OF REFRACTION 1.50
2. % ROUNDS BY COUNT 75.0% MIN.
3. ADHESION PROMOTER "C" SHALL BE USED TO COAT THESE SPHERES:

SIEVE SIZE	% PASSING
40 MESH	90-100 %
80 MESH	0-10 %

IN-MIX GLASS:

1. INDEX OF REFRACTION 1.50
  2. % ROUNDS BY COUNT 75.0% MIN.
  3. NO COATING SHALL BE USED
- | SIEVE SIZE | % PASSING        |
|------------|------------------|
| 30 MESH    | 100 %            |
| 140 MESH   | 15% PASSING MAX. |
4. % GLASS IN FORMULA BY WEIGHT 20%

~~ITEM 843 - CONTROLLER, FULLY ACTUATED, 4 PHASE, SOLID STATE DIGITAL W/BASEMOUNTED CABINET~~

IN ADDITION TO 843, THE CONTROLLER SHALL BE IN ACCORDANCE WITH NEMA STANDARD TS-1-1976 AND ITS LATEST REVISIONS. MANUAL CONTROL TIMING SWITCHES AND CORD ARE NOT REQUIRED. LOAD SWITCHES AND FLASHER SHALL CONFORM TO THE LATEST REVISION OF NEMA TS-1-1976. THE LOAD SWITCHES SHALL CONTAIN INDICATOR LIGHTS FOR EACH CIRCUIT VISABLE FROM THE FRONT. IN ADDITION TO NEMA REQUIREMENTS, THE CONFLICT MONITOR SHALL ALSO HAVE THE FOLLOWING CAPABILITIES: TO DETECT AND TRIP THE MONITOR WHEN ALL OF THE RED LAMPS ON A SOLID STATE LOAD SWITCH CIRCUIT ARE BURNED OUT; TO DETECT AND TRIP THE MONITOR WHEN 2 DIFFERENT COLORS ARE LIGHTED ON THE SAME PHASE; AND TO DISPLAY ON THE FRONT PANEL INDICATORS THE EXACT CHANNEL IN WHICH A SWITCH OUTPUT FAILURE OCCURS. CONTROLLER CABINET SIZE SHALL COMPLY TO THE REQUIREMENTS OF 843 ASSUMING THE CONTROLLER FRAME SIZE TO BE A MINIMUM OF 22" WIDE X 21" HIGH X 14" DEEP. THE CONTROLLER HARNESS LENGTH SHALL BE SUFFICIENT TO REACH ANY POINT WITHIN THE SPACE PROVIDED FOR THE CONTROLLER. THE CONTROLLER HOUSING SHALL BE KEVED TO THE STATE MASTER. CONTROLLER CABINETS SHALL BE PAINTED YELLOW FEDERAL STANDARD 595 COLOR 13655. THE CONTROLLER CABINET SHALL BE EQUIPPED WITH A POWER SWITCH AND CONVENIENCE 3 WIRE DUPLEX OUTLET AND A STANDARD LAMP SOCKET WITH LAMP. CONCERNING THE FUTURE PHASE, EXCEPT FOR THE SIGNAL LOAD RELAYS, ALL WIRING AND COMPONENTS FOR THE CONFLICT MONITOR, FLASH RELAYS AND SIGNAL LOAD RELAY SOCKETS SHALL BE PROVIDED.

FOUNDATION CONDUIT

*Unless otherwise detailed in the plans, all sign support or signal supports foundations shall contain a minimum of one 2 inch capped conduit all in conformance with Standard Construction Drawing TC-21.20.*

THE REQUIREMENT OF 847.04 MATERIAL PREQUALIFICATION AND SAMPLING, AND 847.05 SERVICE TESTING ARE HEREBY WAIVED ON THIS PROJECT AND THE FOLLOWING REQUIREMENTS SHALL BE SUBSTITUTED THEREFORE:  
 THE CONTRACTOR SHALL FURNISH TO THE ENGINEER CERTIFIED TEST DATA AS PER 101.06L, INCLUDING TESTING PROCEDURES, BASED ON CERTIFIED FORMULATION FOR MATERIAL MEETING REQUIREMENTS CONTAINED IN THE PLANS. HE SHALL ALSO FURNISH TYPICAL PLASTIC COMPOUND SPECIFIED FOR USE.  
 MARKING APPLICATION OF PREFORMED PLASTIC MATERIALS SHALL BE IN ACCORDANCE WITH 847.15, PARAGRAPH 3.

~~ITEM 202 - RAISED PAVEMENT MARKERS REMOVED FOR STORAGE~~

~~RAISED PAVEMENT MARKERS SHALL BE REMOVED IN A MANNER THAT PREVENTS DAMAGE TO THE CASTINGS. ALL DEPRESSIONS CAUSED BY REMOVAL OF THE MARKERS SHALL BE FILLED WITH HOT TO THE EXISTING ROAD SURFACE PRIOR TO RESURFACING. REMOVED MARKERS ARE TO BE STORED ON THE PROJECT SITE AS DIRECTED BY THE ENGINEER. ALL COSTS TO BE INCLUDED IN THE CONTRACT PRICE BID FOR ITEM 202 - RAISED PAVEMENT MARKERS REMOVED FOR STORAGE.~~