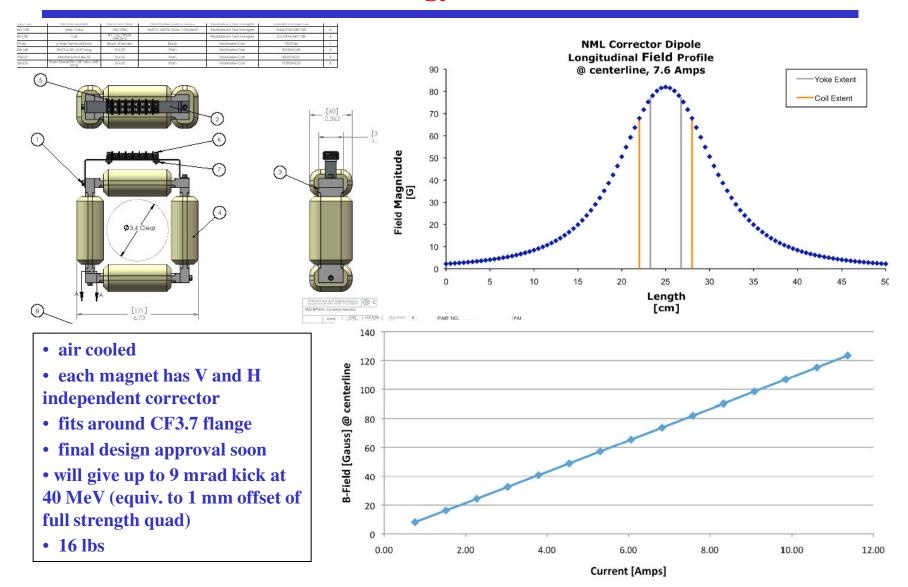
### **Summary of Magnets for NML**

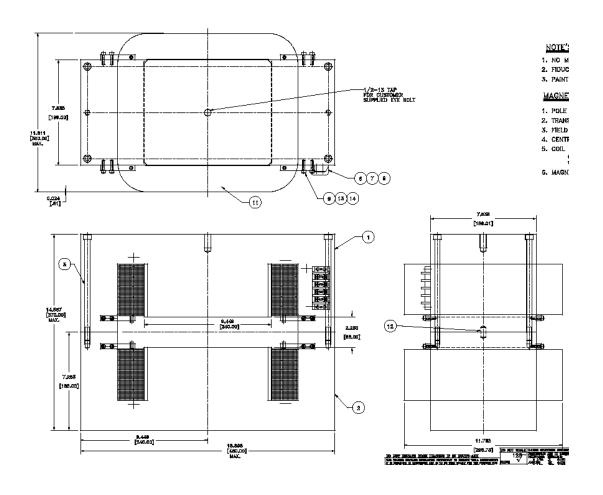
type	# ordered	vendor	int. field max	coil extent in z [mm]	Imax [A]	Vmax [V]
gun solenoid	2 (+ spare coil)	Danfysik	630 G-m (0.28T peak)	130	500	40
LE corr.	33	Radiabeam	12.3 G-m	60	7.5	1.2
LE dipole	14	<b>Everson-Tesla</b>	720 G-m	300	8	40
LE quad	37	Radiabeam	1.1 T-m/m	160	9	12
HE corr.	34	<b>Everson-Tesla</b>	200 G-m	200	9.2	13.4
HE dipole	4	FNAL + tbd	15,000 G-m	1500	1100	14
HE quad	34	<b>Everson-Tesla</b>	8 T-m/m	500	60	45

- See D Broemmelsiek's update on solenoids
- For other magnets, 1<sup>st</sup> magnets will arrive in ~ 3 months; final magnets will arrive in ~15 months
- Contract for HE dipole to be awarded after technical review later today
- All magnets split in 2 halves for insertion of vacuum pipe and easy moving

## **Low Energy Correctors**

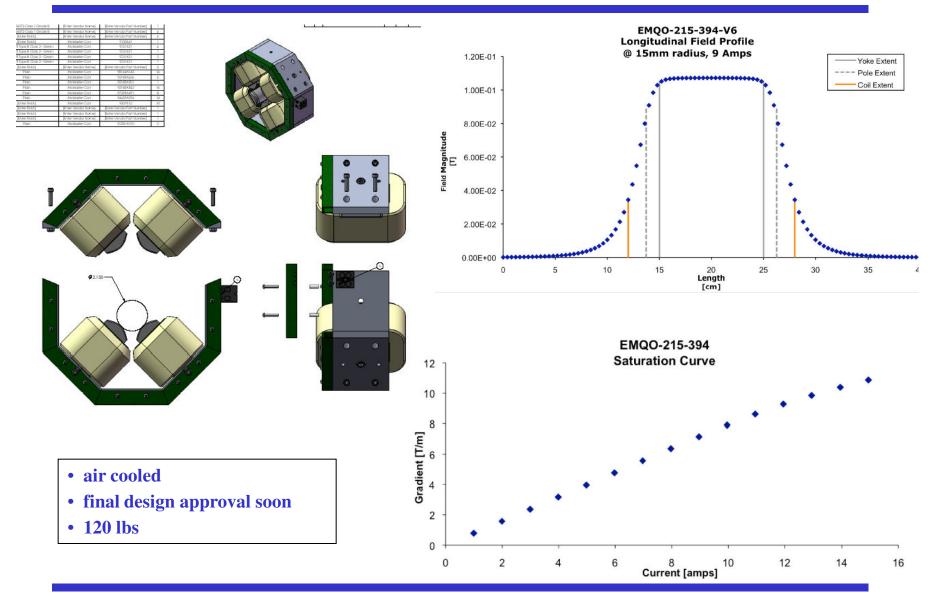


### **Low Energy Dipoles**

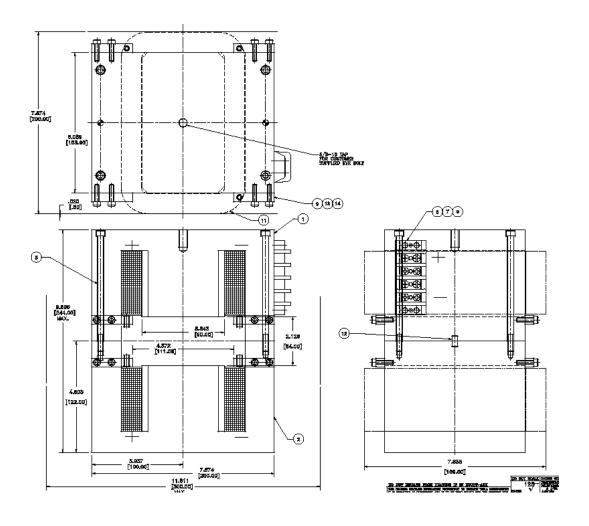


- air cooled
- standard picture frame magnet, similar to NDA
- intended for 22.5 deg bend at 40 MeV (chicanes, bends, dumps, ...)
- design approved; first magnet in production
- 620 lbs
- field drops to < 2% of peak field 30 cm from center

# **Low Energy Quadrupoles**

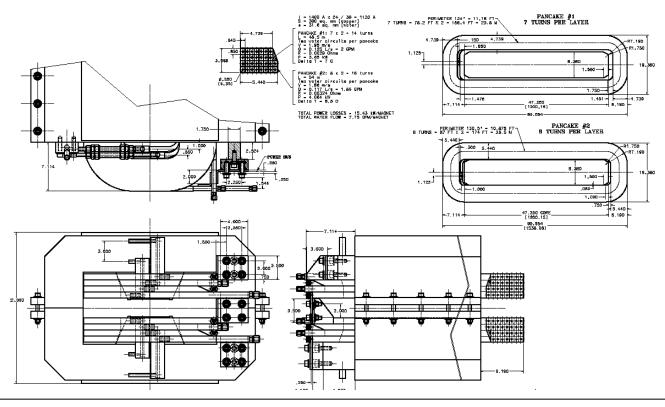


### **High Energy Correctors**



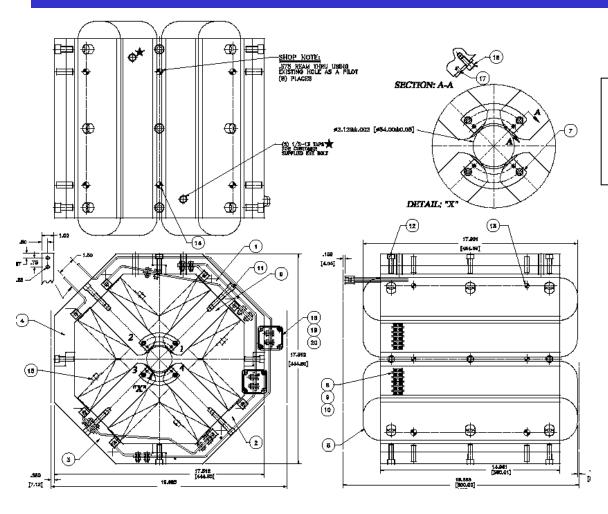
- air cooled
- will give up to 6 mrad kick at 1 GeV (equiv. to 2.5 mm offset of full strength quad)
- design approved; first magnet in production
- 125 lbs
- standard picture frame dipole
- intended for vertical and horizontal orientation

### **High Energy Dipoles**



- water cooled (up to 7.7 GPM)
- intended for 15 deg bend at up to 1.5 GeV
- vendor selection later today
- ~8000 lbs
- hybrid FNAL will stack cores from old MI laminations and send to vendor with old MI copper conductor for coil winding and assembly into magnet

### **High Energy Quadrupoles**



- water cooled (1.3 GPM)
- design approved; first magnet in production
- 680 lbs