GENERAL STRUCTURAL

DESIGN CODES AND STANDARDS:ACI 318 Building Code Requirements for Reinforced Concrete. Arema Manual for Railroad Engineering

MATERIAL PROPERTIES: Reinforcing Steel (Fy):

Cast-in-Place Concrete (fc) at 28 days, u.n.o.: Typical

Duct Line

60,000 psi ASTM A775 Epoxy Coated

4,000 psi

DESIGN LOADS:

Live Load: Cooper E80

Foundations:Duct line is designed for a maximum allowable soil bearing pressure of 2,800 psf on undisturbed natural soil or compacted engineered backfill. Soil bearing pressure shall be verified in the field during construction by a qualified geotechnical engineer.

Verify location of all existing and new underground utilities prior to begining excavation

REINFORCED CONCRETE:

The detailing, fabrication and erection of all reinforcing shall be done in accordance with the latest edition of ACI-315, "Manual of Standard Practice for Detailing Reinforced Concrete Structures and ACI-318, "Building Code Requirements for Structural Concrete."

All reinforcing bars are deformed and continuous, unless noted otherwise

All concrete shall be air entrained (6% +/- 1%).

Calcium chloride is not permitted as a concrete additive

See sections and details for concrete cover over reinforcing.



I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Minnesota Engineer under the laws of the state of

Mark Cackoski

Print Name:

Signature: 03/06/2024

icense #:

MAPLE GROVE, MN

XCEL

FERNBROOK LANE DUCT LINE

Drawn: Project No. 24.324 BLR 03/06/2024 Issued: Checked MHC Sheet No.

