Typical Ramp Section

Cross Section Through Ramp

GENERAL NOTES

DESIGN LOAD:
LOAD: grade 100k PD

EXISTING CONDITIONS:
Contractor shall verify the accuracy of existing condition data and shall notify the owner of any discrepancies discovered prior to fabrication or installation of new work.

SHOP DRAWINGS:
Submit six (6) sets of shop drawings of handing to the engineer for review and approval prior to construction.

CONCRETE:
All structural work shall be furnished and installed in accordance with the American Concrete Institute's ACI-311 and 307, latest edition, and the Composite Reinforced Steel Institute's Design Handbook standards.

Concrete work shall be a minimum 28-day compression strength of 5,000 PSI. Slab-on-grade and flatwork exposed to the weather shall have a minimum 28-day compressive strength of 4,000 PSI.

Maximum concrete cover over reinforcing steel shall be as follows:
2" for bottom reinforcing placed on the ground.
1 1/2" for flat surfaces in contact with the ground or exposed to weather.

Concrete cover shall be 1 1/2" for reinforcing embedded in alkali resisting concrete, providing all chemicals have been neutralized, pipe or similar. 1 1/2" for concrete exposed to freezing and thawing, and from 2" to 4" for other services.

Concrete slab-on-grade shall be 8" min. concrete with 6" rebar or 10" GRC. Each way, an 8" thick for closed types, and 10" thick for open types.

REINFORCING STEEL:
Reinforcing steel bars shall conform to ASTM A 615 grade 60.

STEEL MATERIALS:
Steel shall be continuous 1 1/2" schedule 40 steel pipe, capped with a mender and cap. Prime and apply two coats of colored anti-rust paint prior to application. Turn-up point after installation as necessary. Color selected by owner's representative.

MASONRY:
CMU shall be concrete hollow modular blocks, Grade A, Type L, Normal Weight and with minimum compressive strength of 2,500 PSI as per ASTM C 216 modification.

The Ultimate Compressive Strength of the CMU shall be greater than 2,500 PSI. Where required, all blocks shall be field treated similar to shown, as per ASTM C 1197.

Mortar shall be Type S in accordance with ASTM C 270. All grout in masonry shall be fine or coarse grout complying with ASTM C 487, with a maximum ultimate compressive strength of 2,500 PSI.

Masonry joint reinforcement shall be provided on all vertical and horizontal joints. Welded wire mesh of Type M-8 and a type V-860, with staples spaced 2" minimum and using preformed ties and anchors.

NTS
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