LIMITS OF CONSTRUCTION AND DRAINAGE EASEMENT

PROPOSED Top Bank, existing Natural ground, may vary, verify elevations

Bottom slopes

4 - THD Precast concrete box culverts on 0.75 % slope. (180 L.F. each), (9' x 5')
See THD Dwg. PC-1

NOTE: Dalworth Quickset built to THD Spec. 4090 or approved equal may be used. Submit shop drawings for approval prior to installation.

Exist. ground, TOE OF SLOPE

Top of slope, elev. varies

Typ. Wing-wall

Culvert toe wall

Conc. apron

6" Apron toe wall

Excavate, grade, shape exist. ground this area to dimensions and elevations as shown.

Exist. ground, TOP BANK

Exist Ditch

Toe of slope, bottom ditch, typical

DOWNSTREAM — Slope 1.26%

UPSTREAM — Slope 3.87%

Shape exist. ground to dimensions and elevations as shown from conc. apron to 50' ± Downstream.

Toe wall for conc. apron

Toe wall for culvert, see Dwg. MCW-FI

TYP WINGWALL Flared wingwall for multiple culverts See THD Dwg. MCW-FI

Conc. Cap (typ.)

Typ. 12'-0" Sections

TOE OF SLOPE, exist. ground, may vary.

Exist. ditch bottom

NOTE 1:
FILL MATERIAL above box culverts shall slope from curb to headwall and top of slope. Material shall be select fill material, compacted to secure 95% of maximum density as determined by AASHTO T-99

LIMITS OF CONSTRUCT. AND DRAINAGE ESM'T.

ENLARGED PLAN - PRECAST BOX CULVERT

SCALE: 1" = 10'

Exist. Downstream Ditch — Conc. Apron — 180 L.F. - 9' x 5' Precast conc. box culvert on 0.75% (4 req'd.) — Conc. Apron — Upstream Ditch — Exist. ditch

16" Water — 12" Water — T.C. See Plan — 6" S.S. — 4 Gas

El. 576.16 — El. 570.63 — El. 569.63 — El. 569.75 — El. 569.0 — Slope 1.26%

Culvert toe wall — Wingwall toe wall beyond — Conc. apron toe wall

El. 577.51 — El. 571.10 — El. 571.46 — El. 572.46 — Slope 3.87% — El. 574.0

TYPICAL SECTION

SCALE: 1" = 10' H., 1" = 5' V

UPSTREAM #4@18" — DOWNSTREAM #4@18" — #5@15", 3'-0" lg. — #5@15" — 4, cont. — 2"Cl. Typ. — 4-#4 — 1½" — 1'-6" min.

See Dwg. MCW-FI Conc. Box wall, tie to wall in wingwall — Conc. Cap — 5-#4 dowel into precast box wall at end. — SYMMETRICAL ABOUT ℄ — Downstream — Upstream

END ELEVATION

6" Cement stabilized back-fill material — ¾" dwl. End box culvert — SECTION A-A

Where rock or stable soil occurs, excavation may be vertical, otherwise see detail at right.

6" Cement stabilized backfill — Fin. grade — Varies — See plan — Compacted, select backfill material. — Natural ground — Excavation limits where unstable soil occurs. — 1 on 1 — 8" Crushed gravel — 42'-2"

SECTION A-A

CITY OF ADDISON
DALLAS COUNTY, TEXAS

SPRING VALLEY ROAD

TYP. BOX CULVERT DETAILS

GINN, INC.
Consulting Engineers Dallas, Texas

Designed - GF	Drawn - GF	Date -	Job No. - J-178
Approved - HWG	Checked - HBJ	Scale - As Shown	Sheet 26A of