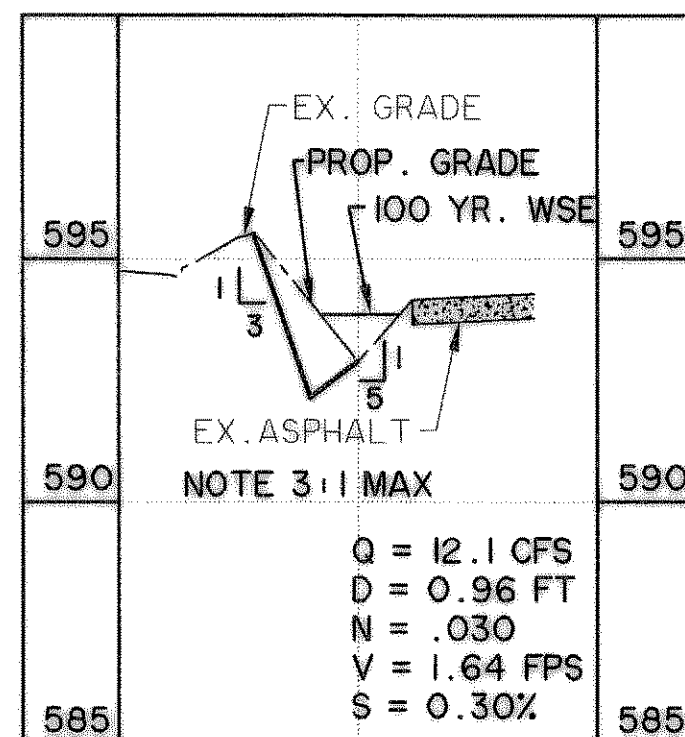
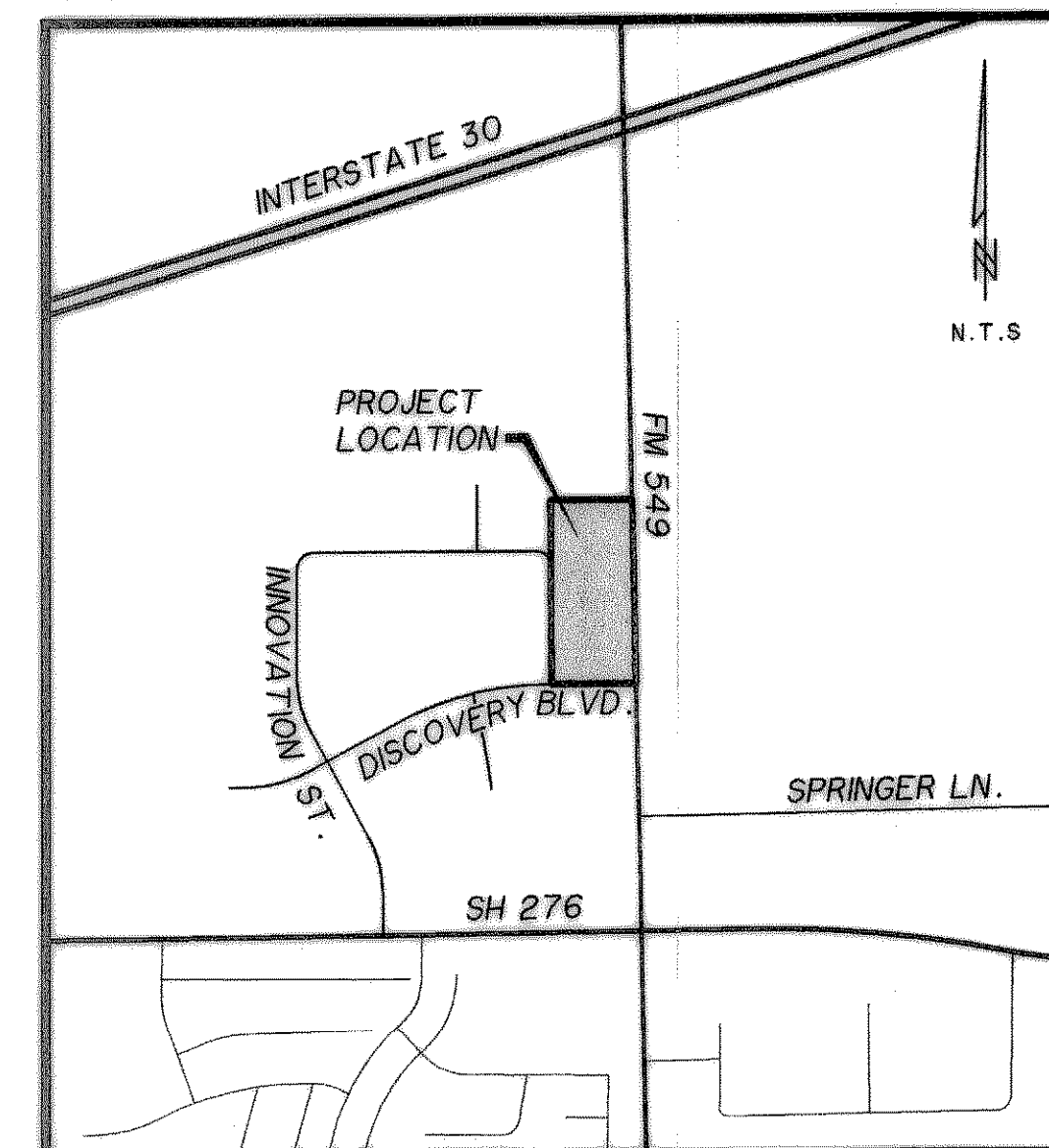
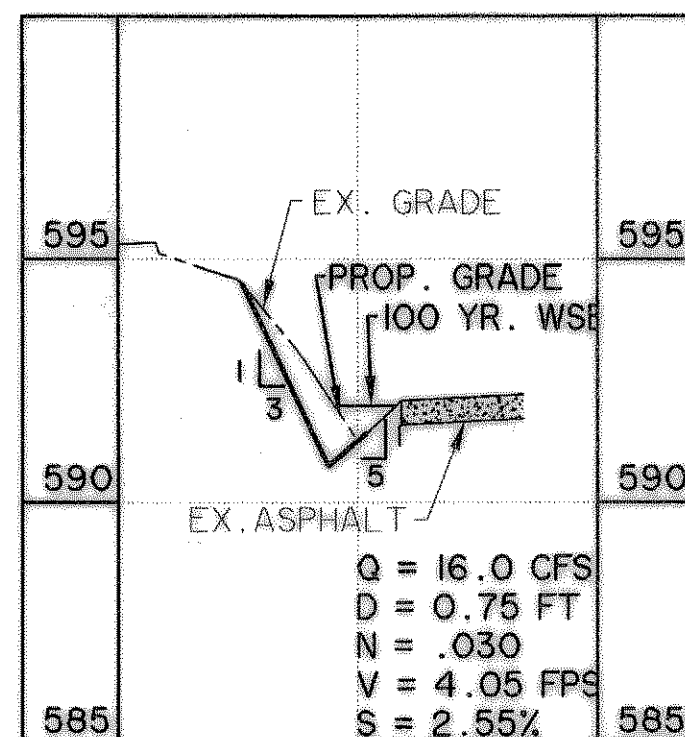


SECTION A - A



SECTION B - B



VICINITY MAP
N.T.S.

Entered Data:

Shape Circular
 Number of Barrels 1
 Solving for Headwater
 Chart Number
 Scale Number
 Chart Description CONCRETE PIPE CULVERT, NO BEVELED RING

ENTRANCE

Scale Description SQUARE EDGE ENTRANCE WITH HEADWALL
 Overtopping Off
 Flowrate 12.1000 cfs
 Manning's n 0.0150
 Roadway Elevation 600.0000 ft
 Inlet Elevation 590.0500 ft
 Outlet Elevation 589.2500 ft
 Diameter 24.0000 in
 Length 164.0000 ft
 Entrance Loss 0.0000
 Tailwater 2.0000 ft

Computed Results:

Headwater 591.9219 ft Inlet Control
 Slope 0.0068 ft/ft
 Velocity 5.6485 fps

Entered Data:

Shape Circular
 Number of Barrels 2
 Solving for Headwater
 Chart Number 2
 Scale Number 1
 Chart Description CORRUGATED METAL PIPE

CULVERT

Scale Description HEADWALL
 Overtopping Off
 Flowrate 14.9300 cfs
 Manning's n 0.0300
 Roadway Elevation 592.0000 ft
 Inlet Elevation 588.8500 ft
 Outlet Elevation 588.4600 ft
 Diameter 18.0000 in
 Length 26.0000 ft
 Entrance Loss 0.0000
 Tailwater 0.7500 ft

Computed Results:

Headwater 591.4197 ft Outlet Control
 Slope 0.0150 ft/ft
 Velocity 5.6005 fps

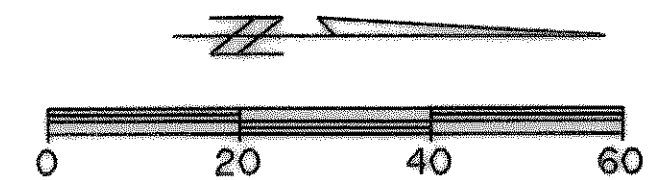
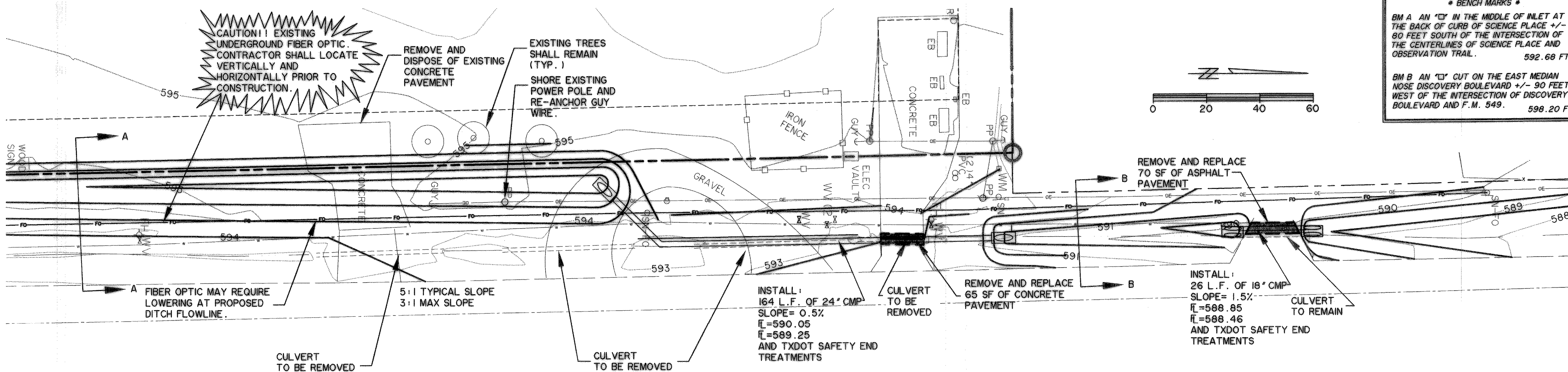
LEGEND

- PROPOSED SAWCUT
- PROPOSED INLET
- 650 PROPOSED CONTOUR LINE
- 650 EXISTING CONTOUR LINE
- DRAINAGE AREA MAJOR DIVIDE
- DRAINAGE AREA MINOR DIVIDE
- (A-1 / XX.XX) DRAINAGE AREA DESIGNATION AND AREA IN ACRES
- ▲ DESIGN POINT
- FLOW ARROWS

* BENCH MARKS *

BM A AN "CY" IN THE MIDDLE OF INLET AT THE BACK OF CURB OF SCIENCE PLACE +/- 80 FEET SOUTH OF THE INTERSECTION OF THE CENTERLINES OF SCIENCE PLACE AND OBSERVATION TRAIL. 592.68 FT.

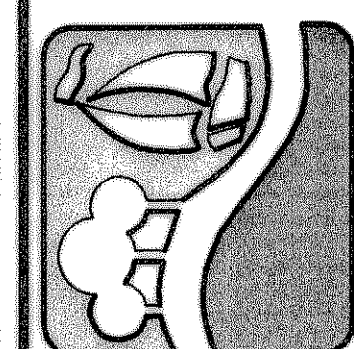
BM B AN "CY" CUT ON THE EAST MEDIAN NOSE DISCOVERY BOULEVARD +/- 90 FEET WEST OF THE INTERSECTION OF DISCOVERY BOULEVARD AND F.M. 549. 598.20 FT.



NOTE:
 TYPICAL DITCH SECTION SHALL HAVE A 5:1 SLOPE. A 3:1 MAXIMUM SLOPE SHALL BE ALLOWED ON SLOPE OPPOSITE STREET ONLY.

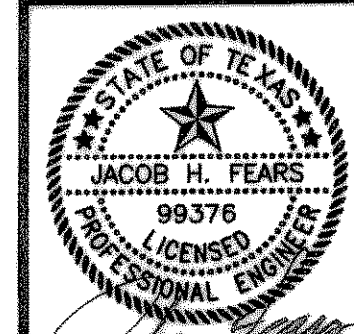
RECORD DRAWING

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ROCKWALL TECHNOLOGY
 PARK
 PHASE I
 ROCKWALL, TEXAS

FM 549 DITCH
 IMPROVEMENTS



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