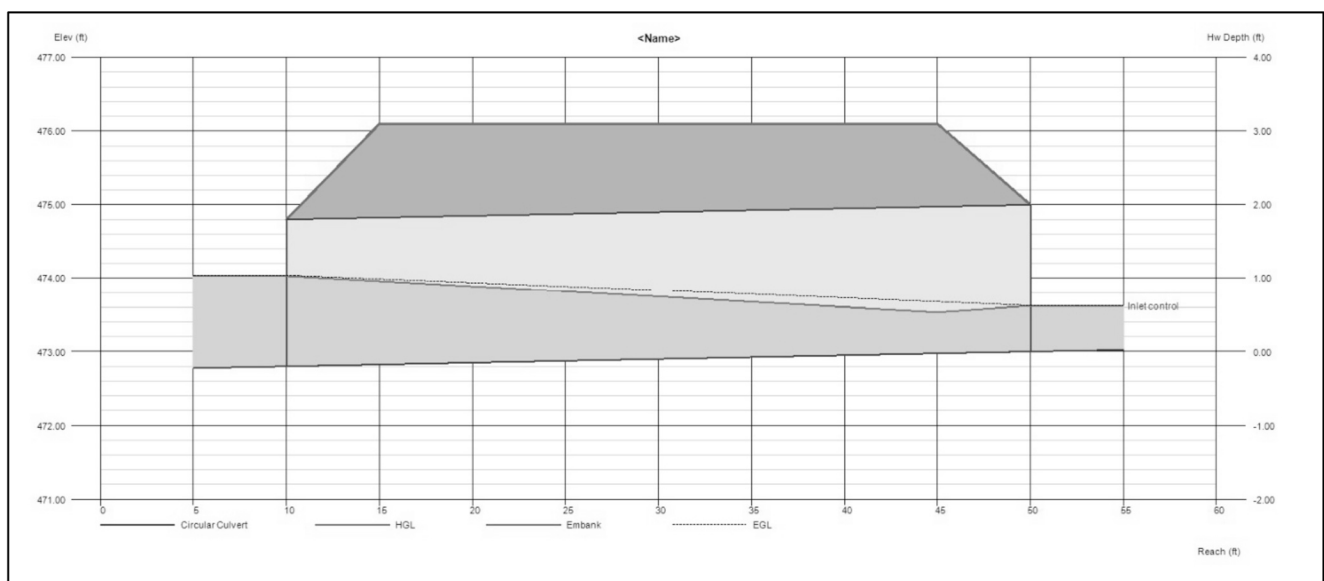


Culvert Report

Circular Culvert

Invert Elev Dn (ft)	= 472.80	Calculations	
Pipe Length (ft)	= 40.00	Qmin (cfs)	= 1.77
Slope (%)	= 0.50	Qmax (cfs)	= 2.25
Invert Elev Up (ft)	= 473.00	Tailwater Elev (ft)	= (dc+D)/2
Rise (in)	= 24.0		
Shape	= Circular	Highlighted	
Span (in)	= 24.0	Qtotal (cfs)	= 1.77
No. Barrels	= 1	Qpipe (cfs)	= 1.77
n-Value	= 0.013	Qovertop (cfs)	= 0.00
Culvert Type	= Circular Concrete	Veloc Dn (ft/s)	= 0.87
Culvert Entrance	= Square edge w/headwall (C)	Veloc Up (ft/s)	= 3.24
Coeff. K,M,c,Y,k	= 0.0098, 2, 0.0398, 0.67, 0.5	HGL Dn (ft)	= 474.03

Embankment		HGL Up (ft)	= 473.46
Top Elevation (ft)	= 476.10	Hw Elev (ft)	= 473.62
Top Width (ft)	= 30.00	Hw/D (ft)	= 0.31
Crest Width (ft)	= 30.00	Flow Regime	= Inlet Control



CULVERT ANALYSIS

ROBERT W. JEWELL
INST. NO. 201707300
O.P.R.B.C.T.
(DESC. BY METES/BOUNDS IN
VOL. 286, PG. 189
D.R.B.C.T.)

WILLIAM ERIC BERNARD
AND SPOUSE
ELIZABETH JANE BERNARD
INST. NO. 200407228
O.R.B.C.T.

SOFIA TORRES
AND JOSE PEREZ
INST. NO. 200201648
(VOL. 1199, PG. 906)
O.R.B.C.T.

GARY D. BOWLING
AND WIFE,
BRENDA L. BOWLING
VOL. 598, PG. 657
O.R.B.C.T.

VIRGIL D. WYLES
VOL. 227, PG. 459
D.R.B.C.T.

NOTE:

DRAINAGE FOR THIS DEVELOPMENT HAS BEEN DESIGNED SUCH THAT THERE WILL BE NO ADVERSE IMPACTS ON THE CAPACITY, FUNCTION OR INTEGRITY OF TEXAS DEPARTMENT OF TRANSPORTATION RIGHT OF WAY DRAINAGE FACILITIES.

CONSTRUCTION NOTE:

CONTRACTOR SHALL CONFIRM NO CONFLICTS BETWEEN EXISTING AND PROPOSED DRY/WET UTILITIES IN PUBLIC R.O.W., BEFORE STARTING SITE WORK CONSTRUCTION.

CONTRACTOR SHALL HYDROMULCH ALL NEWLY GRADED AREAS AND EXPOSED SOILS UPON PAVING COMPLETION.

EXCESS SOIL MATERIAL IS THE RESPONSIBILITY OF THE CONTRACTOR & IS TO BE DISPOSED OFFSITE RESPONSIBLY AT NO SEPARATE PAY.

SITWORKS NOTES:

- CONTRACTOR SHALL FIELD VERIFY LOCATION AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION OF PROPOSED FACILITIES. NOTIFY ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
- CONTRACTOR SHALL NOTIFY THE APPROPRIATE UTILITY COMPANY 48 HOURS PRIOR TO EXCAVATING NEAR THEIR UTILITY.
- CONTRACTOR SHALL TAKE ALL DUE PRECAUTIONS TO PROTECT EXISTING FACILITIES FROM DAMAGE. ANY DAMAGE TO EXISTING FACILITIES INCURRED AS A RESULT OF CONSTRUCTION OPERATIONS WILL BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE.
- CONTRACTOR SHALL TAKE EXTRA CARE TO PROTECT TREES IN AREAS ADJACENT TO CONSTRUCTION.
- CONTRACTOR SHALL CONFIRM NO CONFLICTS BETWEEN EXISTING AND PROPOSED DRY/WET UTILITIES IN PUBLIC R.O.W., BEFORE STARTING SITE WORK CONSTRUCTION.

LEGENDS:

	PROPERTY LINE
	DIRECTION OF EXISTING FLOW
	DESIGNATES EXISTING AREA TO BE REMOVED
	DESIGNATES PROPOSED IMPERVIOUS AREA

FINAL IMPERVIOUS ANALYSIS:

TOTAL SITE AREA	139,420 S.F. (3.20 AC.)
EXISTING BUILDINGS + GRAVEL DRIVE	19,655 S.F.
EXISTING PAVEMENT TO BE REMOVED	1,500 S.F.
PROPOSED DRIVEWAY TO BE ADDED	1,425 S.F.
NO NET INCREASE IN IMPERVIOUS COVER	

EXISTING IMPERVIOUS ANALYSIS:

TOTAL SITE AREA	139,420 S.F. (3.20 AC.)
IMPROVEMENT TYPE	AREA OF EXISTING IMPERVIOUS COVER
EXISTING BUILDINGS + GRAVEL DRIVE	19,655 S.F.
TOTAL AREA	19,655 S.F.
TOTAL FINAL IMPERVIOUS COVER	= 19,655 S.F. (0.45 AC.)

PROPOSED IMPERVIOUS ANALYSIS:

TOTAL SITE AREA	139,420 S.F. (3.20 AC.)
IMPROVEMENT TYPE	AREA OF PROPOSED IMPERVIOUS COVER
PROPOSED DRIVEWAY TO BE ADDED	1,425 S.F.
TOTAL AREA	1,425 S.F.
TOTAL PROPOSED IMPERVIOUS COVER	= 1,425 S.F. (0.03 AC.)



60 30 0 30 60
SCALE: 1"= 30'

PROPOSED DRIVEWAY
SUGGESTED BY TxDOT

161 FM 1209 CEDAR CREEK, TX

PROPOSED DRAINAGE
CONDITION
PLAN

DESIGNED BY:

DWN BY:

CHK BY:

SHEET
REFERENCE:

C.02