CONSTRUCTION PLANS

NEW CELINA HIGH SCHOOL

CITY OF CELINA, TEXAS

Index Of Drawings

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BIDDING & REVIEW RELEASE

NOT FOR CONSTRUCTION

This document is released for the purpose of interim review & bidding only and shall not be used for construction purposes. This document is subject to review by the Texas Department of Transportation, City of Celina, and Celina ISD which may require revisions prior to authorization of construction. Construction documents will be issued upon final review and approval by project owner and jurisdictional representatives.

Prepared For

Celina Independent School District
205 South Colorado
Celina, Texas 75009
Telephone 972 382-2751

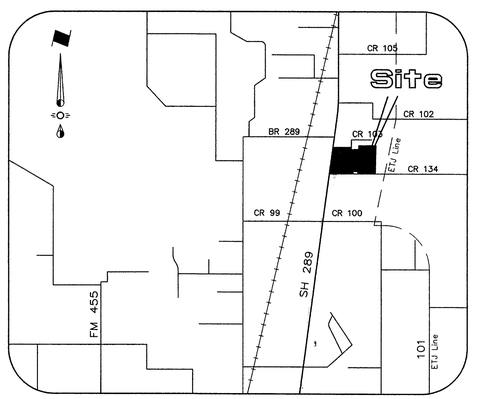
Engineer

RLK ENGINEERING, INC.
111 West Main
Allen, Texas 75013
(972) 359-1733 Off
(972) 359-1833 Fax

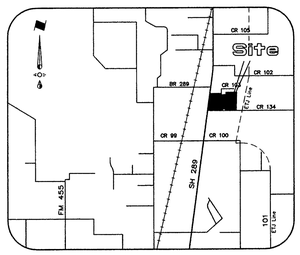
STATE OF TEXAS
RONNY KLINGBEIL
76831
REGISTERED
PROFESSIONAL
ENGINEER
2/12/07

BIDDING & REVIEW RELEASE
NOT FOR CONSTRUCTION

RECEIVED
FEB 12 2007
CITY OF CELINA



Vicinity Map



VICINITY MAP

Curve Data Chart

	Inner	Outer		Inner	Outer		Inner	Outer
1	A=65°04'31" R=30.00' T=19.14' L=34.07'		11	A=70°07'25" R=30.00' T=21.05' L=36.72'	A=70°07'25" R=60.00' T=42.11' L=73.43'	21	A=109°15'05" R=68.75' T=96.83' L=131.09'	A=57°48'18" R=98.75' T=54.52' L=99.63'
2	A=65°04'31" R=30.00' T=19.14' L=34.07'		12	A=56°44'48" R=300.00' T=162.03' L=297.12'	A=48°52'27" R=330.00' T=149.95' L=281.49'	22	A=70°44'55" R=183.87' T=130.55' L=227.04'	A=70°44'55" R=213.87' T=151.85' L=264.09'
3	A=360°00'00" R=80.00' T=∞ L=502.65'		13	A=90°00'00" R=30.00' T=30.00' L=47.12'		23	A=70°44'55" R=183.87' T=130.55' L=227.04'	A=47°52'29" R=213.87' T=94.94' L=178.71'
4	A=47°02'29" R=30.00' T=13.06' L=24.63'		14	A=70°06'20" R=30.00' T=21.05' L=36.71'		24	A=109°15'05" R=68.75' T=96.83' L=131.09'	A=22°18'29" R=98.75' T=19.47' L=38.45'
5	A=94°25'15" R=25.00' T=27.01' L=41.20'		15	A=19°53'40" R=30.00' T=5.26' L=10.42'		25	A=74°48'35" R=100.00' T=76.47' L=130.57'	
6	A=47°02'15" R=30.00' T=13.06' L=24.63'		16	A=90°00'00" R=30.00' T=30.00' L=47.12'	A=90°00'00" R=60.00' T=60.00' L=94.25'	26	A=121°52'15" R=30.00' T=53.98' L=63.81'	
7	A=94°25'25" R=25.00' T=27.01' L=41.20'		17	A=110°00'00" R=20.00' T=28.56' L=38.40'		27	A=30°00'00" R=50.00' T=13.40' L=26.18'	A=30°00'00" R=74.00' T=19.83' L=38.75'
8	A=90°00'00" R=25.00' T=25.00' L=39.27'		18	A=29°28'17" R=20.00' T=5.26' L=10.29'		28	A=60°07'27" R=65.00' T=37.62' L=68.21'	A=60°07'27" R=89.00' T=51.51' L=93.39'
9	A=90°00'00" R=20.00' T=20.00' L=31.42'		19	A=81°03'26" R=10.00' T=8.55' L=14.15'				
10	A=90°00'00" R=20.00' T=20.00' L=31.42'	A=90°00'00" R=30.00' T=30.00' L=47.12'	20	A=72°39'02" R=20.00' T=14.71' L=25.36'				

CONSTRUCTION PLAT

SHEET 1 OF 2

CELINA HIGH SCHOOL ADDITION

LOT 1, BLOCK A

71.564 Acres Situated In The
W. H. RATTAN SURVEY ~ ABST. 753
CELINA ETJ, COLLIN COUNTY, TEXAS
City File No. CP06-06

Owner
Celina Independent School District
205 South Colorado
Celina, Texas 75008
Telephone 972 382-2751

Moses Hubbard Estate
10279 McKinney Drive
Celina, Texas 75009
Telephone 972 382-2751

Engineer
RLK Engineering, Inc.
111 West Main Street
Allen, Texas 75013
Telephone 972 359-1733

Surveyor
Surdukan Surveying, Inc.
9883 West University Drive, Suite 102
McKinney, Texas 75071
Telephone 972 542-1446

February 12, 2007

OWNER'S CERTIFICATE

STATE OF TEXAS
COUNTY OF COLLIN

WHEREAS, the Celina Independent School District and Moses Hubbard Estate are the owners of a tract of land situated in the W. H. Rattan Survey, Abstract No. 753, Collin County, Texas, and being part of a 640 acre tract of land recorded in Volume 29, Page 487, Deed Records of Collin County, Texas, and being more particularly described as follows:

BEGINNING at a 1/2" iron rod set for corner in the east line of said 640 acre tract, said point being in the west line of a remaining 30.00 acre tract out of a 150.995 acre tract conveyed to Stewart Dawson and Averille Dawson by deed recorded in Volume 4730, Page 1837, Deed Records of Collin County, Texas, said iron rod being N01°05'35"E, 35.00 feet from the most easterly southeast corner of said 640 acre tract, and the southwest corner of said 30.00 acre tract, said iron rod being the northeast corner of a right of way dedication for C.R. No. 134, as recorded in Volume 3199, Page 704, Deed Records of Collin County, Texas;

THENCE N89°31'52"W, with the north line of said R.O.W. tract, a distance of 839.96 feet to a 1/2" iron rod set for corner at the southeast corner of a 1.00 acre tract of land conveyed to Gunter Water Supply Corporation by deed recorded in Volume 2647, Page 703, Deed Records of Collin County, Texas, said iron rod being in C.R. No. 105 (a gravel road);

THENCE N51°21'53"W, with the east line of said 1.00 acre tract, and with C.R. No. 105, a distance of 54.80 feet to a 5/8" iron rod found for corner;

THENCE N20°47'21"W, with the east line of said 1.00 acre tract, and with C.R. No. 105, a distance of 100.70 feet to a 1/2" iron rod found for corner;

THENCE N89°40'00"W, with the north line of said 1.00 acre tract, a distance of 222.95 feet to a 1/2" iron rod found for corner;

THENCE S00°10'21"W, with the west line of said 1.00 acre tract, a distance of 137.72 feet to a 1/2" iron rod set for corner at the northeast corner of a right of way dedication for C.R. No. 134, as recorded in Volume 3199, Page 356, Deed Records of Collin County, Texas;

THENCE S89°53'40"W, following the north line of said C.R. No. 134, a distance of 1213.02 feet to a 1/2" capped iron rod set for corner in the east line of Preston Road (State Highway No. 289) (a variable width R.O.W.);

THENCE N07°30'07"E, with the east line of Preston Road, a distance of 5.59 feet to a 1/2" capped iron rod found for corner;

THENCE N15°20'07"E, with the east line of Preston Road, a distance of 403.77 feet to a 1/2" capped iron rod found for corner;

THENCE N07°30'07"E, with the east line of Preston Road, a distance of 200.00 feet to a 1/2" capped iron rod set for corner;

THENCE N04°38'07"E, with the east line of Preston Road, a distance of 100.13 feet to a 1/2" capped iron rod set for corner;

THENCE N00°22'07"E, with the east line of Preston Road, a distance of 403.11 feet to a 1/2" capped iron rod found for corner;

THENCE N07°30'07"E, with the east line of Preston Road, a distance of 200.00 feet to a 1/2" capped iron rod set for corner;

THENCE N13°13'07"E, with the east line of Preston Road, a distance of 96.89 feet to a 1/2" iron rod set for corner in the centerline of C.R. No. 105, said iron rod being at the southwest corner of a 156.890 acre tract of land conveyed to Goodman Investments by deed recorded in Volume 6019, Page 3357, Deed Records of Collin County, Texas;

THENCE S87°08'20"E, with the south line of said 156.890 acre tract, and with C.R. No. 105, a distance of 337.73 feet to a nail found for corner;

THENCE S89°52'33"E, with the south line of said 156.890 acre tract, and C.R. No. 105, and crossing the "Y" intersection of C.R. No. 105 and C.R. No. 102, a distance of 650.27 feet to a 1/2" capped iron rod found for corner;

THENCE S00°34'26"E, a distance of 90.00 feet to a 1/2" iron rod set for corner;

THENCE N89°17'01"E, a distance of 314.53 feet to a 1/2" iron rod set for corner;

THENCE N00°42'59"W, a distance of 193.07 feet to a 1/2" iron rod set for corner;

THENCE N89°17'01"E, a distance of 890.10 feet to a 1/2" iron rod set for corner in the aforementioned west line of a remaining 30.00 acre tract;

THENCE S01°05'35"W, with the west line of said remaining 30.00 acre tract, a distance of 1485.44 feet to the POINT OF BEGINNING and CONTAINING 3,117,145 square feet, or 71.564 acres of land.

BASIS OF BEARINGS:

True North, as established by GPS observation.

NOTICE:

All responsibility and liability for drainage to adjacent and downstream properties from the construction of any related improvements will accrue to the owner.

Selling a portion of this addition by metes and bounds is a violation of City ordinance and state law, and is subject to fines and withholding of building permits.

This property is not located in a 100 Year Flood Plain or in an identified flood hazard area as defined by the U. S. Department of Housing and Urban Development under the Flood Disaster Protection Act of 1973, as amended.

NOW, THEREFORE, KNOW ALL MEN BY THESE PRESENTS:

THAT, the Celina Independent School District and Moses Hubbard Estate, acting by and through their duly authorized officers, do hereby adopt this plat designating the hereinabove described property as Lot 1, Block A, Celina High School, an addition to the City of Celina, Texas and do hereby dedicate, in fee simple to the public use forever, the streets, rights-of-way, and other public improvements shown thereon. The streets and alleys, if any, are dedicated for street purposes. The easements and public use areas, as shown, are dedicated for the public use forever, for the purposes indicated on this plat. No buildings, fences, trees, shrubs, or other improvements or growths shall be constructed or placed upon, over, or across the easements as shown, except that landscape improvements may be placed on landscape easements, if approved by the City Council of the City of Celina. In addition, utility easements may also be used for the mutual use and accommodation of all public utilities using the same unless the easement limits the use to particular utilities, said use by public utilities being subordinate to the public's and City of Celina's use thereof. The City of Celina and any public utility entities shall have the right to remove and keep removed all or parts of any buildings, fences, trees, shrubs, or other improvements or growths which may in any way endanger or interfere with the construction,, maintenance, or efficiency of their respective systems in said easements. The City of Celina and public utility entities shall at all times have the full right of ingress and egress to or from their respective easements for the purpose of constructing, reconstructing, inspecting, patrolling, maintaining, and adding to or removing all or parts of their respective systems without the necessity at any time of procuring permission from anyone.

The undersigned do hereby covenant and agree that they shall construct upon the fire lane easements, as dedicated and shown hereon, a hard surface in accordance with the City of Celina's paving standard for fire lanes, and that he shall maintain the same in a state of good repair at all times and keep the same free and clear of any structures, fences, trees, shrubs, or other improvements or obstruction, including, but not limited to the parking of motor vehicles, trailers, boats, or other impediments to the access of fire apparatus. The maintenance of paving on the fire lane easements is the responsibility of the owner, and the owner shall post and maintain appropriate signs in conspicuous places along such fire lanes, stating "Fire Lane-No Parking". The local law enforcement agency(s) is hereby authorized to enforce regulations within the fire lanes and utility easements to be maintained free and unobstructed at all times for Fire Department and emergency use.

The undersigned do hereby covenant and agree that the access easement may be utilized by any person or the general public for ingress and egress to public vehicular and pedestrian use and access, and for Fire Department and emergency use in, along, upon, and across said premises, with the right and privilege at all times of the City of Celina, its agents, employees, workmen, and representatives having ingress, egress, and regress in, along, upon, and across said premises.

This plat approved subject to all platting ordinances, rules, regulations and resolutions of the City of Celina, Texas.

By: _____
Authorized signature of owner
Celina Independent School District

_____
Printed name and title

NOTARY CERTIFICATE

STATE OF TEXAS
COUNTY OF COLLIN

Before me. the undersigned authority, a Notary public in and for the State of Texas, on this day personally appeared _____, Owner, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purpose and considerations therein expressed.

GIVEN under my hand and seal of office, this the _____ day of _____, 2007.

_____
Notary Public in and for
the State of Texas

_____
My commission expires on:

By: _____
Authorized signature of owner
Moses Hubbard Estate

_____
Printed name and title

NOTARY CERTIFICATE

STATE OF TEXAS
COUNTY OF COLLIN

Before me. the undersigned authority, a Notary public in and for the State of Texas, on this day personally appeared _____, Owner, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purpose and considerations therein expressed.

GIVEN under my hand and seal of office, this the _____ day of _____, 2007.

_____
Notary Public in and for
the State of Texas

_____
My commission expires on:

PROPERTY LOCATION STATEMENT

This property is located in the corporate limits (or the extraterritorial jurisdiction) of the City of Celina, Collin County, Texas.

CITY APPROVAL OF CONSTRUCTION PLAT

Approved for preparation of final plat following construction of all public improvements (or appropriate sureties thereof) necessary for the subdivision shown on this plat.

RECOMMENDED BY: Planning and Zoning Commission, City of Celina, Texas

_____ Signature of Chairperson

_____ Date of recommendation

APPROVED BY: City Council, City of Celina, Texas

_____ Signature of Mayor

_____ Date of approval

ATTEST:

_____ City Secretary

_____ Date

SURVEYOR'S CERTIFICATE

KNOW ALL MEN BY THESE PRESENTS: THAT I, David J. Surdukan, do hereby certify that I prepared this plat from an accurate survey of the land, and that the corner monuments shown as "set" were properly placed under my supervision in accordance with the Subdivision Ordinance of the City of Celina, Texas.

_____
David J. Surdukan
Registration No. 4613

NOTARY CERTIFICATE

STATE OF TEXAS
COUNTY OF COLLIN

Before me, the undersigned authority, a Notary Public in and for the State of Texas, on this day personally appeared David J. Surdukan, Registered Professional Land Surveyor, know to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and considerations therein expressed.

GIVEN under my hand and seal of office, this the _____ day of _____, 2007.

_____
Notary Public in and for
the State of Texas

_____
My commission expires on:

CONSTRUCTION PLAT

SHEET 2 OF 2

CELINA HIGH SCHOOL ADDITION

LOT 1, BLOCK A

71.564 Acres Situated In The
W. H. RATTAN SURVEY ~ ABST. 753
CELINA ETJ, COLLIN COUNTY, TEXAS
City File No. CP06-06

Owner
Celina Independent School District
205 South Colorado
Celina, Texas 75008
Telephone 972 382-2751

Moses Hubbard Estate
10279 McKinney Drive
Celina, Texas 75009
Telephone 972 382-2751

Engineer
RLK Engineering, Inc.
111 West Main Street
Allen, Texas 75013
Telephone 972 359-1733

Surveyor
Surdukan Surveying, Inc.
9883 West University Drive, Suite 102
McKinney, Texas 75071
Telephone 972 542-1446

February 12, 2007

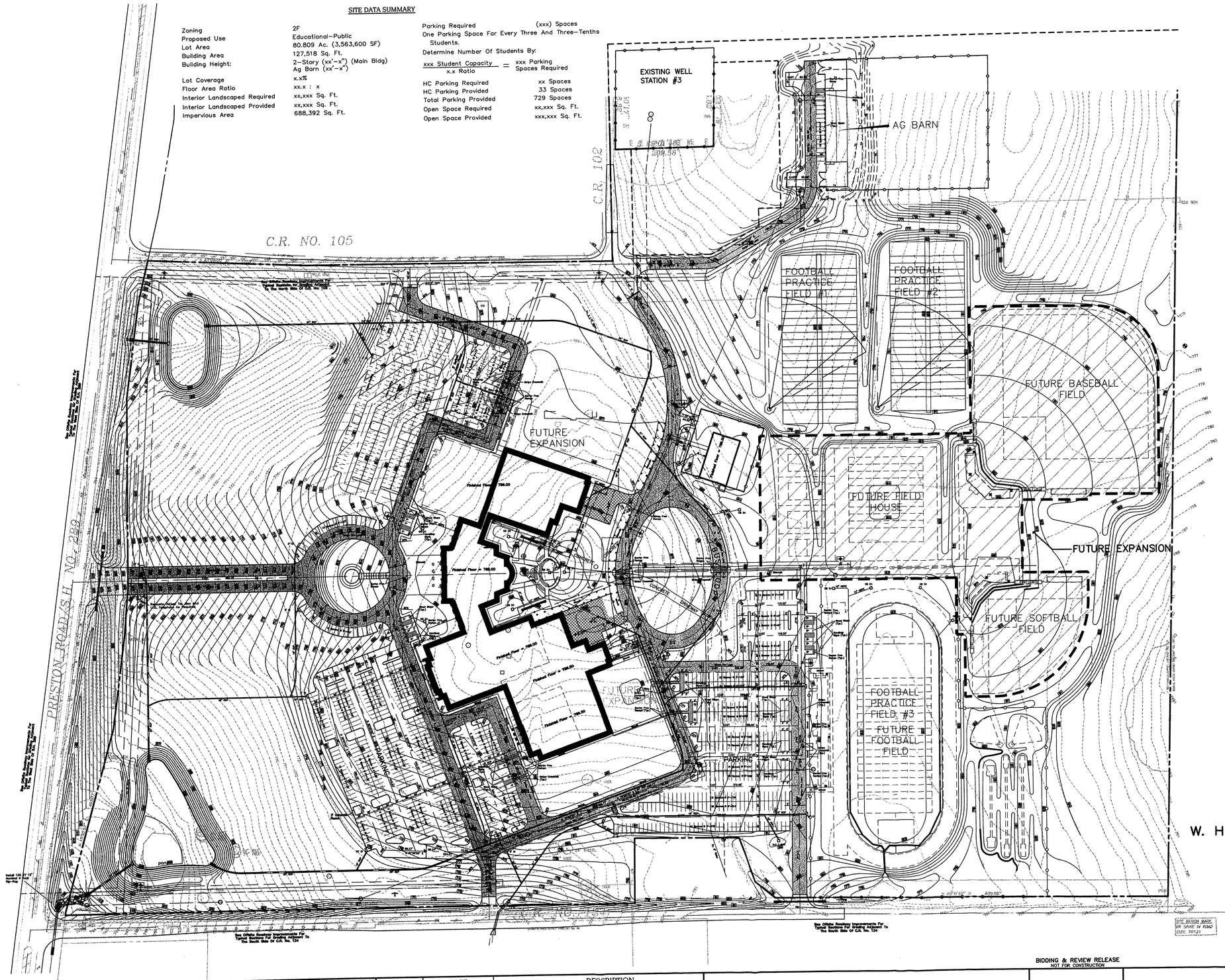
SITE DATA SUMMARY

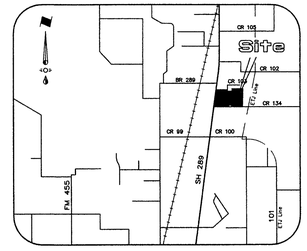
Zoning	2F
Proposed Use	Educational–Public
Lot Area	80.809 Ac. (3,563,600 SF)
Building Area	127,518 Sq. Ft.
Building Height:	2–Story (xx'–x") (Main Bldg) Ag Barn (xx'–x")
Lot Coverage	x.x%
Floor Area Ratio	xx.x : x
Interior Landscaped Required	xx,xxx Sq. Ft.
Interior Landscaped Provided	xx,xxx Sq. Ft.
Impervious Area	688,392 Sq. Ft.

Parking Required (xxx) Spaces
One Parking Space For Every Three And Three–Tenths Students.
Determine Number Of Students By:

$$\frac{\text{xxx Student Capacity}}{\text{x.x Ratio}} = \text{xxx Parking Spaces Required}$$

HC Parking Required	xx Spaces
HC Parking Provided	33 Spaces
Total Parking Provided	729 Spaces
Open Space Required	xx,xxx Sq. Ft.
Open Space Provided	xxx,xxx Sq. Ft.





VICINITY MAP

0 100 200

Center Line Curve Data

CURVE	RADIUS	DELTA	TANGENT	LENGTH
C–1	95.00'	142°03'01"	276.29'	235.52'
C–2	95.00'	142°02'46"	276.26'	235.52'
C–3	95.00'	37°57'14"	32.67'	62.93'
C–4	95.00'	37°56'59"	32.66'	62.92'
C–5	45.00'	90°00'00"	45.00'	70.68'
C–6	198.87'	70°44'55"	141.20'	245.56'
C–7	83.75'	109°15'05"	117.96'	159.69'
C–8	198.87'	70°44'55"	141.20'	245.56'
C–9	83.75'	109°15'05"	117.96'	159.69'
C–10	315.00'	56°44'48"	170.13'	311.98'
C–11	15.00'	90°00'00"	15.00'	23.56'
C–12	62.00'	30°00'00"	16.61'	32.46'
C–13	77.00'	60°07'27"	44.57'	80.80'

SITE PLAN

CELINA HIGH SCHOOL ADDITION

71.564 ACRES
BLOCK A, LOT 1
W. H. RATTAN SURVEY ~ ABSTRACT NO. 753
CELINA ETJ, COLLIN COUNTY, TEXAS

Owner
Celina Independent School District
205 South Colorado
Celina, Texas 75008
Telephone 972 382–2751

Moses Hubbard Estate
10279 McKinney Drive
Celina, Texas 75009
Telephone 972 382–2751

Prepared By
RLK Engineering, Inc.
111 West Main Street
Allen, Texas 75013
Telephone 972 359–1733

BIDDING & REVIEW RELEASE
NOT FOR CONSTRUCTION

Refer To Sheet C31 for General Notes.

MISC. INFORMATION

BENCH MARK

FEMA BENCHMARK
SQUARE CUT ON NORTH END OF WEST HEADWALL OVER CREEK WEST SIDE OF S.H. NO. 289 – 150' + SOUTH OF F.M. NO. 455
ELEV. 702.97

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REVISION	DATE	DESCRIPTION

RLK ENGINEERING, INC.
111 West Main
Allen, Texas 75013
(972) 359-1733 Off
(972) 359-1833 Fax

SITE PLAN
CELINA HIGH SCHOOL
S.H. 289 and C.R. 105
CELINA, TEXAS

DESIGNED BY: RLK Engineering	TECH REVIEW: RLK	DRAWING FILE: 06076 SITE.dwg	DRAWING SCALE: 1" = 40'
DRAWN BY: RLK Engineering	PEER REVIEW: RLK	DRAWING DATE: 12/18/06	PROJECT NUMBER: RLK. 06076

SHEET: C 3 OF 32

P-200702-01

Center Line Curve Data

CURVE	RADIUS	DELTA	TANGENT	LENGTH
C-1	95.00'	142°03'01"	276.29'	235.52'
C-2	95.00'	142°02'46"	276.26'	235.52'
C-3	95.00'	37°57'14"	32.67'	62.93'
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C-11	15.00'	90°00'00"	15.00'	23.56'
C-12	62.00'	30°00'00"	16.61'	32.46'
C-13	77.00'	60°07'27"	44.57'	80.80'

!!! CAUTION !!!
Existing Private Utility Lines On Site
Contractor To Verify Existing Utility Locations
Field Verify Both Location & Depth
Visibly Mark All Existing Utilities
Prior To Any Construction
These Markings Are To Be Maintained
And Remain During The Entire
Construction Process

!!! CAUTION !!!
Existing Utility Lines In Area
Contractor To Verify Existing Utility Locations
Contact Appropriate Utility Companies
48 Hrs. Prior To Any Construction

LEGEND

- 6" 3600 PSI Reinf. Conc. Pavement (On Site Only) (See Paving Detail)
- 7" 3600 PSI Reinf. Conc. Pavement (See Paving Detail)
- 8" 3600 PSI Reinf. Conc. Pavement (See Paving Detail)
- EJ — Proposed Expansion Joint

NOTE:
The Paving Contractor shall not place permanent pavement until all sleeving for irrigation, electric, gas, telephone, cable TV, site lighting, etc. has been installed. It shall be the Paving Contractor's responsibility to insure that all sleeving is in place prior to placing permanent paving.

Refer To Sheet C31 for General Notes.

MISC. INFORMATION

BENCH MARK
FEMA BENCHMARK
SQUARE CUT ON NORTH END OF WEST HEADWALL OVER CREEK WEST SIDE OF S.H. NO. 289 – 150' + SOUTH OF F.M. NO. 455
ELEV. 702.97

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REVISION	DATE	DESCRIPTION

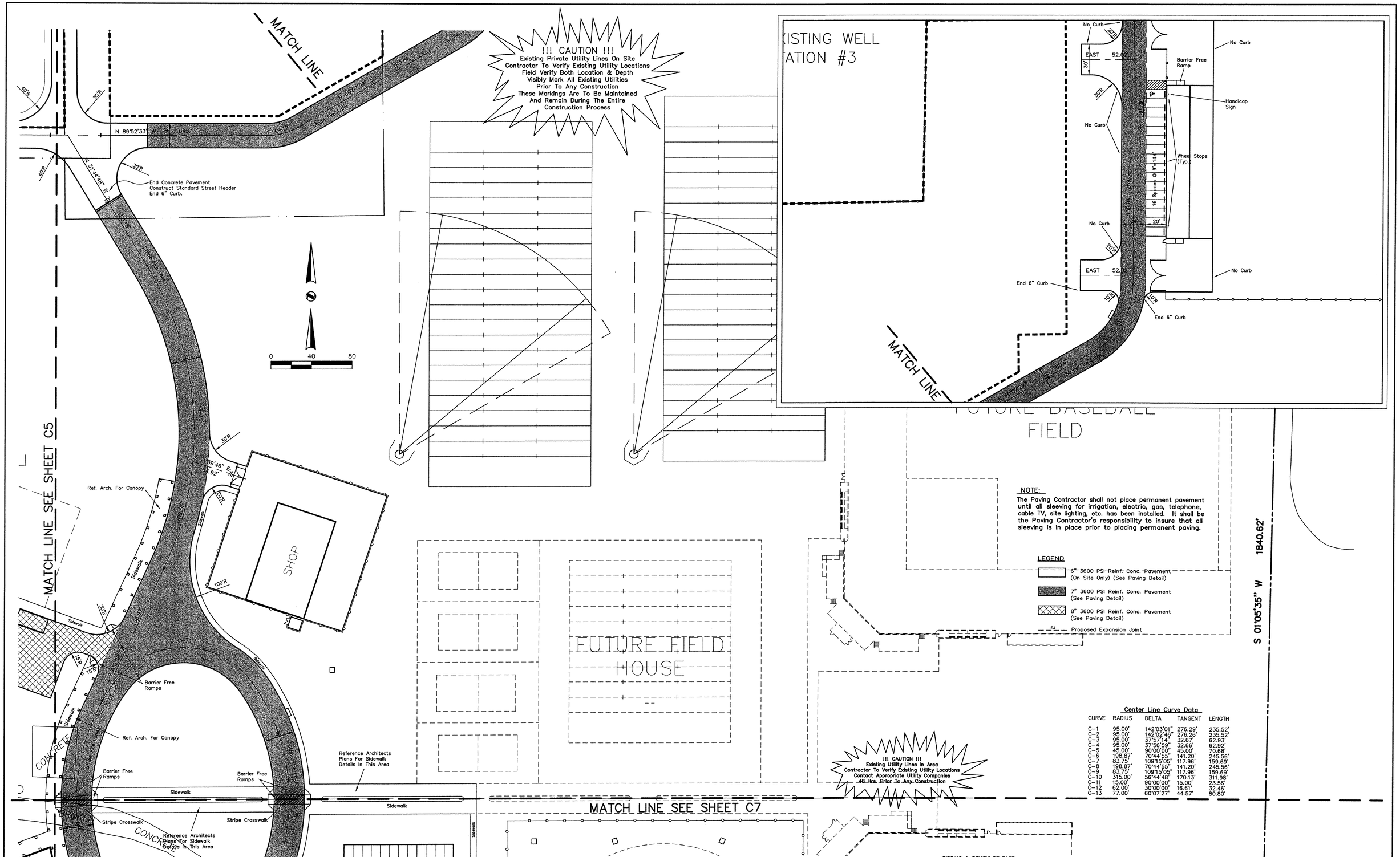
RLK ENGINEERING
RLK ENGINEERING, INC.
111 West Main
Allen, Texas 75013
(972) 359-1733 Off
(972) 359-1833 Fax

BIDDING & REVIEW RELEASE
NOT FOR CONSTRUCTION
STATE OF TEXAS — RONNY KLINGBEIL — 76831 — REGISTERED PROFESSIONAL ENGINEER
2/12/07

PAVING PLAN
CELINA HIGH SCHOOL
S.H. 289 and C.R. 105
CELINA, TEXAS

DESIGNED BY: RLK Engineering	TECH REVIEW: RLK	DRAWING FILE: 06076pav1	DRAWING SCALE: 1" = 40'	SHEET: C 4 OF 32
DRAWN BY: RLK Engineering	PEER REVIEW: RLK	DRAWING DATE: 12/18/06	PROJECT NUMBER: RLK: 06076	

P-200702-01



Center Line Curve Data

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C-4	95.00'	37°56'59"	32.66'	62.92'
C-5	45.00'	90°00'00"	45.00'	70.68'
C-6	198.87'	70°44'55"	141.20'	245.56'
C-7	83.75'	109°15'05"	117.96'	159.69'
C-8	198.87'	70°44'55"	141.20'	245.56'
C-9	83.75'	109°15'05"	117.96'	159.69'
C-10	315.00'	56°44'48"	170.13'	311.98'
C-11	15.00'	90°00'00"	15.00'	23.56'
C-12	62.00'	30°00'00"	16.61'	32.46'
C-13	77.00'	60°07'27"	44.57'	80.80'

Refer To Sheet C31 for General Notes.

MISC. INFORMATION

BENCH MARK

FEMA BENCHMARK
SQUARE CUT ON NORTH END OF WEST HEADWALL OVER CREEK WEST SIDE OF S.H. NO. 289 – 150' + SOUTH OF F.M. NO. 455
ELEV. 702.97

BIDDING & REVIEW RELEASE
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REVISION	DATE	DESCRIPTION

RLK ENGINEERING, INC.
111 West Main
Allen, Texas 75013
(972) 359-1733 Off
(972) 359-1833 Fax

STATE OF TEXAS
RONNY KLINGBEIL
76831
REGISTERED
PROFESSIONAL ENGINEER
2/12/07

BIDDING & REVIEW RELEASE
NOT FOR CONSTRUCTION

PAVING PLAN

CELINA HIGH SCHOOL

S.H. 289 and C.R. 105
CELINA, TEXAS

DESIGNED BY:	TECH REVIEW:	DRAWING FILE:	DRAWING SCALE:	SHEET:
RLK Engineering	RLK	06076paving2	1" = 40'	C 5 OF 32
DRAWN BY:	PEER REVIEW:	DRAWING DATE:	PROJECT NUMBER:	
RLK Engineering	RLK	12/18/06	RLK: 06076	

P-200702-01

MATCH LINE SEE SHEET C6

MATCH LINE SEE SHEET C8

Reference Architects Plans For Sidewalk Details In This Area

FUTURE EXPANSION

FUTURE SOFTBALL FIELD

FUTURE FOOTBALL FIELD

Barrier Free Ramps (Typ.)
Wheel Stops (Typ.)
Handicap Signs (Typ.)
Stripe Crosswalk (Typ.)
Stripe Fire Lane
Ref. Architectural For Band Practice Striping
Ref. "Offsite Roadway Improvements" For Road Design And Details
End Concrete Pavement Construct Standard Street Header. End 6" Curb.
Barrier Free Ramp (Typ.)

12 Spaces @ 9'=108'
EAST 118.00'
9 Spaces @ 9'=81'
64.0' SOUTH
22 Spaces @ 9'=198'
24 Spaces @ 9'=216'
EAST 282.26'
20 Spaces @ 9'=180
EAST 258.96'
19 Spaces @ 9'=171'
EAST 237.58'
EAST 318.68'
31 Spaces @ 9'=279'
36 Spaces @ 9'=324'
EAST 389.59'
42 Spaces @ 9'=378'

!!! CAUTION !!!
Existing Private Utility Lines On Site
Contractor To Verify Existing Utility Locations
Field Verify Both Location & Depth
Visibly Mark All Existing Utilities
Prior To Any Construction
These Markings Are To Be Maintained
And Remain During The Entire
Construction Process

!!! CAUTION !!!
Existing Utility Lines In Area
Contractor To Verify Existing Utility Locations
Contact Appropriate Utility Companies
48 Hrs. Prior To Any Construction

TREELINE

WIRE FENCE

W.H. RATTAN SURVEY ABSTRACT NO. 763
SAMUEL QUEEN SURVEY ABSTRACT NO. 732

REMAINING 30.00 ACRES OF THE 150.995 ACRES
STEWART LAND CO., INC. TO J.E. DAWSON
VOLUME 4730 PAGE 1857

0 40 80

Center Line Curve Data

CURVE	RADIUS	DELTA	TANGENT	LENGTH
C-1	95.00'	142°03'01"	276.29'	235.52'
C-2	95.00'	142°02'46"	276.26'	235.52'
C-3	95.00'	37°57'14"	32.67'	62.93'
C-4	95.00'	37°56'59"	32.66'	62.92'
C-5	45.00'	90°00'00"	45.00'	70.68'
C-6	198.87'	70°44'55"	141.20'	245.56'
C-7	83.75'	109°15'05"	117.96'	159.69'
C-8	198.87'	70°44'55"	141.20'	245.56'
C-9	83.75'	109°15'05"	117.96'	159.69'
C-10	315.00'	56°44'48"	170.13'	311.98'
C-11	15.00'	90°00'00"	15.00'	23.56'
C-12	62.00'	30°00'00"	16.61'	32.46'
C-13	77.00'	60°07'27"	44.57'	80.80'

LEGEND

- 6" 3600 PSI Reinf. Conc. Pavement (On Site Only) (See Paving Detail)
- 7" 3600 PSI Reinf. Conc. Pavement (See Paving Detail)
- 8" 3600 PSI Reinf. Conc. Pavement (See Paving Detail)
- EJ Proposed Expansion Joint

NOTE:
The Paving Contractor shall not place permanent pavement until all sleeving for irrigation, electric, gas, telephone, cable TV, site lighting, etc. has been installed. It shall be the Paving Contractor's responsibility to insure that all sleeving is in place prior to placing permanent paving.

L1 N 89°31'52" W 839.96'
L2 S 0°28'08" W 52.76'
L3 N 89°31'52" W 839.96'
L4 S 0°28'08" W 1320.00'

1/2"IRF C.M.
5/8"IRF C.M.
1/2"IRS
POB
SIGN
OHE
PP
Fiber Optic
WIRE FENCE
RR SPK FND. C.M.

SITE BENCH MARK
RR SPIKE IN ROAD
ELEV. 787.21

METAL SHOP BUILDING

1.00 ACRES
GUNTER WATER SUPPLY CORP.
VOLUME 2647 PAGE 703

0.55 ACRES
GUNTER WATER SUPPLY CORP.
VOLUME 795 PAGE 810

ROW DEDICATION
VOLUME 3670 PAGE 231

46.885 ACRES
PHILIP M. LITTEL
VOLUME 2869 PAGE 835

36" TREE

Refer To Sheet C31 for General Notes.

MISC. INFORMATION

BENCH MARK

FEMA BENCHMARK
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(972) 359-1833 Fax

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STATE OF TEXAS
RONNY KLINGBEIL
76831
REGISTERED
PROFESSIONAL ENGINEER

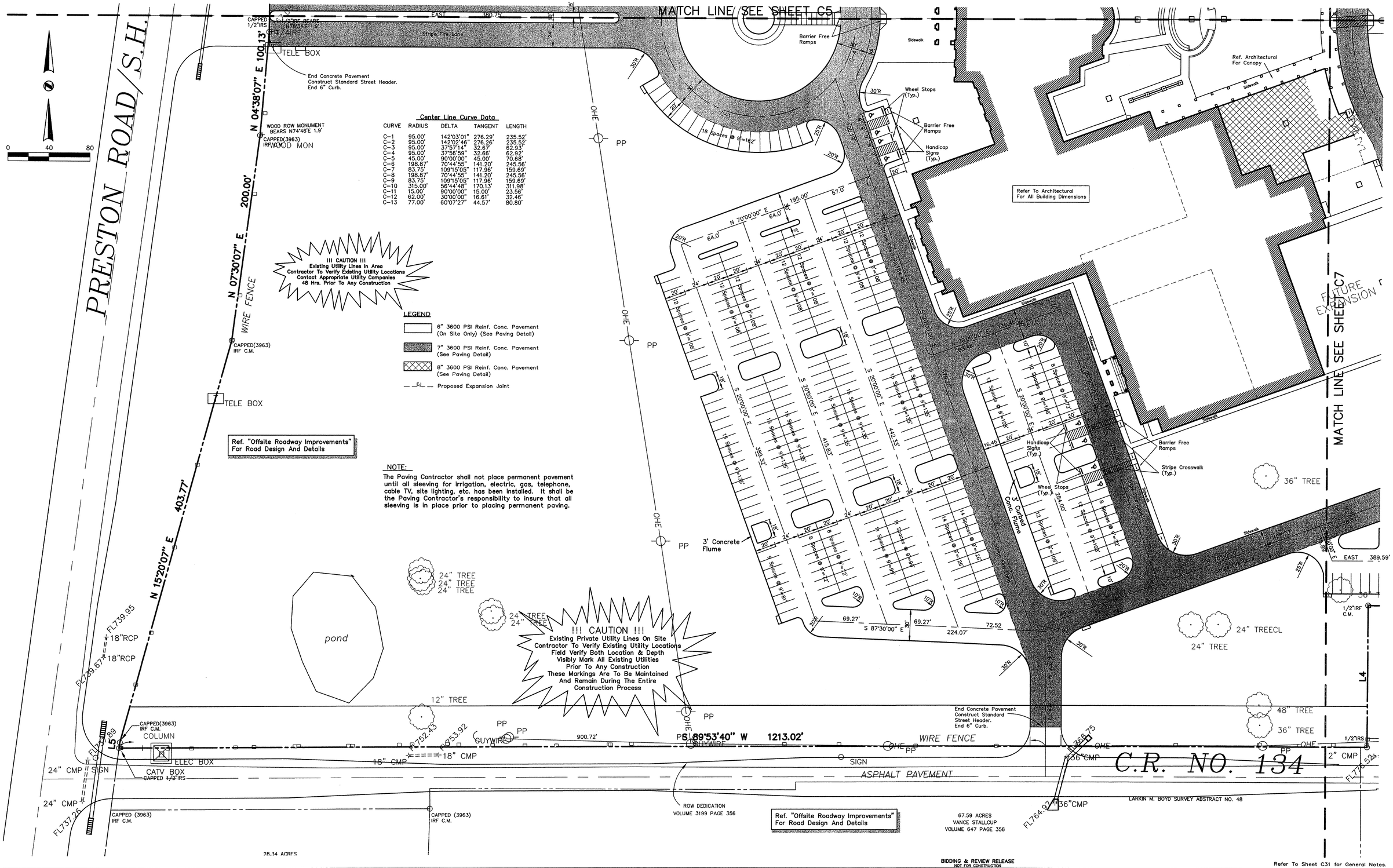
PAVING PLAN

CELINA HIGH SCHOOL

S.H. 289 and C.R. 105
CELINA, TEXAS

DESIGNED BY:	TECH REVIEW:	DRAWING FILE:	DRAWING SCALE:	SHEET:
RLK Engineering	RLK	06076pav3	1" = 40'	C 6 OF 32
DRAWN BY:	PEER REVIEW:	DRAWING DATE:	PROJECT NUMBER:	
RLK Engineering	RLK	12/18/06	RLK: 06076	

P-200702-01



MISC. INFORMATION

BENCH MARK

FEMA BENCHMARK
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(972) 359-1833 Fax

STATE OF TEXAS
RONNY KLINGEL
76831
REGISTERED
PROFESSIONAL ENGINEER
2/12/07

BIDDING & REVIEW RELEASE
NOT FOR CONSTRUCTION

PAVING PLAN

CELINA HIGH SCHOOL

S.H. 289 and C.R. 105
CELINA, TEXAS

DESIGNED BY: RLK Engineering	TECH REVIEW: RLK	DRAWING FILE: 06076 pav4	DRAWING SCALE: 1" = 40'
DRAWN BY: RLK Engineering	PEER REVIEW: RLK	DRAWING DATE: 12/18/06	PROJECT NUMBER: RLK: 06076

SHEET: C 7 OF 32

P-200702-01

C.R. NO. 105

!!! CAUTION !!!
Existing Utility Lines In Area
Contractor To Verify Existing Utility Locations
Contact Appropriate Utility Companies
48 Hrs. Prior To Any Construction

!!! CAUTION !!!
Existing Private Utility Lines On Site
Contractor To Verify Existing Utility Locations
Field Verify Both Location & Depth
Visibly Mark All Existing Utilities
Prior To Any Construction
These Markings Are To Be Maintained
And Remain During The Entire
Construction Process

LEGEND
- Proposed Spot Elevation
- Proposed Contour
- Existing Spot Elevation
- Existing Contour

0 40 80

S 87°08'20" E 337.73

1/2"IRS

Ex. 2-1/2" Water

NAIL FND. BENT

GRAVEL ROAD

T TELE BOX

OHE

PP

See Offsite Roadway Improvements For Typical Sections for Grading Adjacent To The North Side Of C.R. No. 105

GUARD RAIL

HISTORICAL MARKER

15' Wide Emergency Overflow

TOP 54.5

53.50

ROW MONUMENT BEARS N77°34'E 3.1'

CAPPED 1/2"IRS

CAPPED 1/2"IRS BEARS S10°09'W 1.7'

FL. 48.0

FL 47.0

18"RCP

HEADWALL

N 87°36'07" E 306.00'

50.3

18"RCP @ 0.5%

CAPPED(3983) 1/2" I.R.C.M.

See Offsite Roadway Improvements For Typical Sections for Grading Adjacent To The West Side Of S.H. 289

VARIABLE WIDTH ROW

ASPHALT PAVEMENT

S.H. NO. 289

N 00°22'20" E 403.11'

CAPPED 1/2"IRS BEARS N76°41'E 1.5'

TELE BOX

Relocate/Adjust Tel Box and

MATCH LINE SEE SHEET C12

MATCH LINE SEE SHEET C10

GUYWIRE

FUTURE EXPANSION

Finished Floor = 789.00

CONCRETE SIDEWALK

CONCRETE

BROKEN

Refer To Sheet C31 for General Notes.

BIDDING & REVIEW RELEASE
NOT FOR CONSTRUCTION

MISC. INFORMATION

BENCH MARK

FEMA BENCHMARK
SQUARE CUT ON NORTH END OF WEST HEADWALL OVER CREEK WEST SIDE OF S.H. NO. 289 – 150' + SOUTH OF F.M. NO. 455
ELEV. 702.97

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RLK ENGINEERING, INC.
111 West Main
Allen, Texas 75013
(972) 359-1733 Off
(972) 359-1833 Fax

STATE OF TEXAS
RONNY KLINGBEIL
76831
LICENSED PROFESSIONAL ENGINEER
7/12/07

BIDDING & REVIEW RELEASE
NOT FOR CONSTRUCTION

GRADING PLAN

CELINA HIGH SCHOOL
S.H. 289 and C.R. 105
CELINA, TEXAS

DESIGNED BY: RLK Engineering	TECH REVIEW: RLK	DRAWING FILE: 06076 grad1	DRAWING SCALE: 1" = 40'	SHEET: C 8 OF 32
DRAWN BY: RLK Engineering	PEER REVIEW: RLK	DRAWING DATE: 12/18/06	PROJECT NUMBER: RLK: 06076	

P-200702-01

MATCH LINE

MATCH LINE

MATCH LINE SEE SHEET C9

MATCH LINE SEE SHEET C11

C.R. NO. 105

S.H. NO. 289

OHE

PP

GUYWIRE

CONCRETE

Finished Floor = 788.50

SHOP

FUTURE BASEBALL FIELD

FUTURE FIELD HOUSE

!!! CAUTION !!!
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Contractor To Verify Existing Utility Locations
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48 Hrs. Prior To Any Construction

!!! CAUTION !!!
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Contractor To Verify Existing Utility Locations
Field Verify Both Location & Depth
Visibly Mark All Existing Utilities
Prior To Any Construction
These Markings Are To Be Maintained
And Remain During The Entire
Construction Process

S 00°50'47" W 208.82'

S 01°06'35" W 1840.62'

0 60 100
GRAPHIC SCALE
1"=60'

0 40 80
GRAPHIC SCALE
1"=40'

LEGEND

- 37.2 — Proposed Spot Elevation
- 37 — Proposed Contour
- +537.50 — Existing Spot Elevation
- 537 — Existing Contour

Refer To Sheet C31 for General Notes.

MISC. INFORMATION

BENCH MARK

FEMA BENCHMARK
SQUARE CUT ON NORTH END OF WEST HEADWALL OVER CREEK WEST SIDE OF S.H. NO. 289 – 150' + SOUTH OF F.M. NO. 455
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111 West Main
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(972) 359-1833 Fax

STATE OF TEXAS
RONNY KLINGER
76831
REGISTERED
PROFESSIONAL ENGINEER
2/12/07

BIDDING & REVIEW RELEASE
NOT FOR CONSTRUCTION

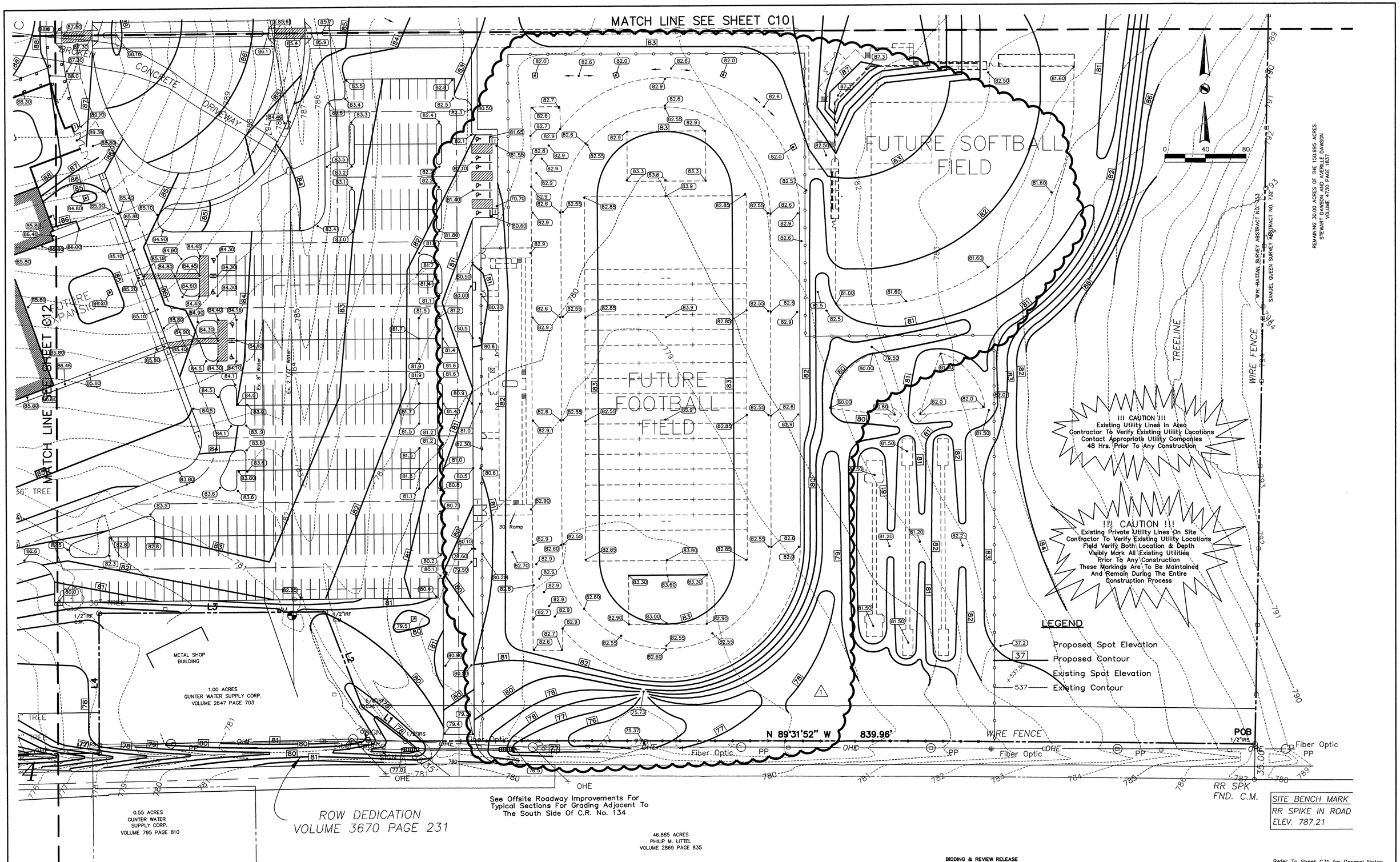
GRADING PLAN

CELINA HIGH SCHOOL

S.H. 289 and C.R. 105
CELINA, TEXAS

DESIGNED BY:	TECH REVIEW:	DRAWING FILE:	DRAWING SCALE:	SHEET:
RLK Engineering	RLK	06076 grad2	1" = 40'	C9 OF 32
DRAWN BY:	PEER REVIEW:	DRAWING DATE:	PROJECT NUMBER:	
RLK Engineering	RLK	12/18/06	RLK: 06076	

P-200702-01



Refer To Sheet C31 for General Notes.

MISC. INFORMATION

BENCH MARK

FEMA BENCHMARK
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REVISION	DATE	DESCRIPTION
1	01/26/07	REVISED TRACK LOCATION AND GRADING

RLK ENGINEERING

RLK ENGINEERING, INC.
111 West Main
Allen, Texas 75013
(972) 359-1733 Off
(972) 359-1833 Fax

BIDDING & REVIEW RELEASE
NOT FOR CONSTRUCTION

STATE OF TEXAS
RONNY KLINGBEIL
76831
REGISTERED PROFESSIONAL ENGINEER
2/12/07

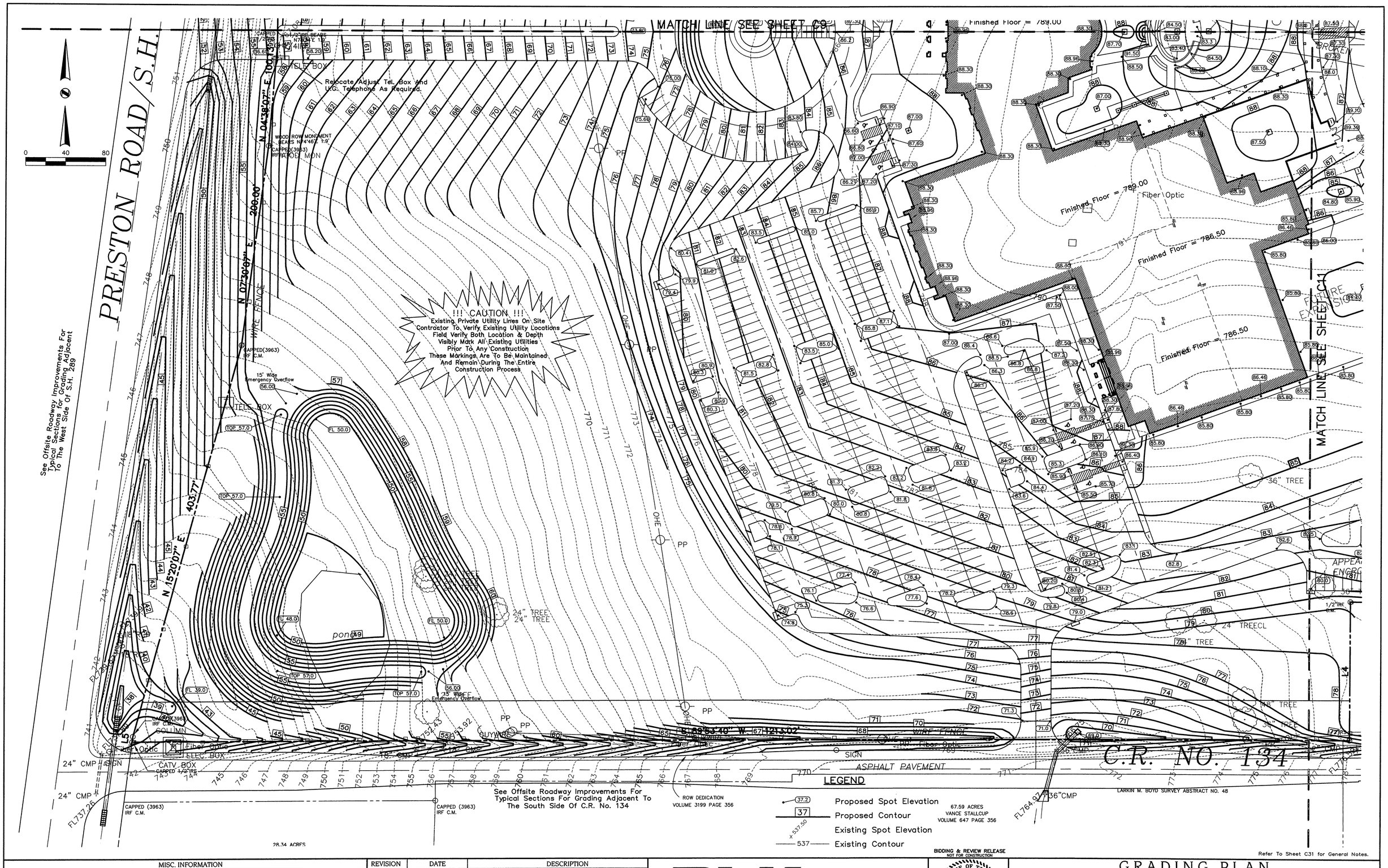
GRADING PLAN

CELINA HIGH SCHOOL

S.H. 289 and C.R. 105
CELINA, TEXAS

DESIGNED BY:	TECH REVIEW:	DRAWING FILE:	DRAWING SCALE:	SHEET:
RLK Engineering	RLK	06076 grad3	1" = 40'	C 10 OF 32
DRAWN BY:	PEER REVIEW:	DRAWING DATE:	PROJECT NUMBER:	
RLK Engineering	RLK	12/18/06	RLK: 06076	

P-200702-01



Refer To Sheet C31 for General Notes.

MISC. INFORMATION	REVISION	DATE	DESCRIPTION
BENCH MARK FEMA BENCHMARK SQUARE CUT ON NORTH END OF WEST HEADWALL OVER CREEK WEST SIDE OF S.H. NO. 289 – 150' + SOUTH OF F.M. NO. 455 ELEV. 702.97			

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STATE OF TEXAS
RONNY KLINGSEIL
76831
REGISTERED PROFESSIONAL ENGINEER

2/12/07

GRADING PLAN

CELINA HIGH SCHOOL

S.H. 289 and C.R. 105
CELINA, TEXAS

DESIGNED BY:	TECH REVIEW:	DRAWING FILE:	DRAWING SCALE:	SHEET:
RLK Engineering	RLK	06076 grad4	1" = 40'	C 11 OF 32
DRAWN BY:	PEER REVIEW:	DRAWING DATE:	PROJECT NUMBER:	
RLK Engineering	RLK	12/18/06	RLK: 06076	

P-200702-01

DRAINAGE AREA CALCULATIONS

Drainage Area No.	Drainage Area (Acres)	C	t_c (min)	I_{100} (in/hr)	Q_{100} (cfs)
A	0.19	0.7	15	7.52	1.0
A1	0.06	0.7	15	7.52	0.3
A2	0.16	0.7	15	7.52	0.8
A3	0.09	0.7	15	7.52	0.5
A4	0.95	0.7	15	7.52	5.0
A5	2.38	0.7	15	7.52	12.5
A6	0.33	0.7	15	7.52	1.7
A7	0.19	0.7	15	7.52	1.0
A8	1.75	0.7	15	7.52	9.2
B	1.58	0.7	15	7.52	8.3
B1	1.58	0.7	15	7.52	8.3
C	0.91	0.7	15	7.52	4.8
D	0.56	0.7	15	7.52	2.9
D1	0.56	0.7	15	7.52	2.9
E	0.64	0.7	15	7.52	3.4
E1	0.18	0.7	15	7.52	1.0
E2	1.14	0.7	15	7.52	6.0
E2a	0.65	0.7	15	7.52	3.4
E3	0.54	0.7	15	7.52	2.8
E4	0.18	0.7	15	7.52	1.0
E5	2.48	0.7	15	7.52	13.1
E6	1.02	0.7	15	7.52	5.4
F	1.64	0.7	15	7.52	8.6
F1	0.28	0.7	15	7.52	1.5
F2	1.00	0.7	15	7.52	5.3
F3	0.65	0.7	15	7.52	3.4

Drainage Area No.	Drainage Area (Acres)	C	t_c (min)	I_{100} (in/hr)	Q_{100} (cfs)
F4	0.64	0.7	15	7.52	3.4
F5	0.30	0.7	15	7.52	1.6
G	0.62	0.6	15	7.52	2.8
G1	0.47	0.6	15	7.52	2.1
G2	0.24	0.6	15	7.52	1.1
G3	0.12	0.6	15	7.52	0.5
G4	0.84	0.6	15	7.52	3.8
G5	0.84	0.6	15	7.52	3.8
G6	0.81	0.6	15	7.52	3.7
G7	0.81	0.6	15	7.52	3.7
J	2.55	0.4	15	7.52	7.7
J1	11.35	0.4	15	7.52	34.1
O1	1.63	0.7	15	7.52	8.6
O2	3.23	0.6	15	7.52	17.0
O3	1.06	0.7	15	7.52	5.6
O4	5.85	0.6	15	7.52	26.4
O5	11.88	0.4	15	7.52	35.7
O6	4.85	0.4	15	7.52	14.6
P1	4.40	0.7	15	7.52	23.2
P2	4.05	0.7	15	7.52	21.3
N	16.69	0.4	15	7.52	50.2
NE	12.17	0.4	15	7.52	36.6
NW	15.00	0.4	15	7.52	45.1
S	10.01	0.4	15	7.52	30.1
SE	15.01	0.4	15	7.52	45.2
SW	12.84	0.4	15	7.52	38.6

Existing 30" CMP
Exist Flow (C=0.4) = 50.2 cfs
Proposed Flow (C=0.4) = 52.6 cfs

Existing 42" RCP
Exist Flow (C=0.4) = 45.1 cfs
Proposed Detained Flow = 45.1 cfs

SHEET FLOW
Exist Flow (C=0.4) = 36.6 cfs
Proposed Flow (C=0.4) = 36.5 cfs

Existing 24" CMP
Exist Flow (C=0.4) = 38.6 cfs
Proposed Detained Flow = 38.6 cfs

Existing 36" CMP
Exist Flow (C=0.4) = 30.1 cfs
Proposed Flow (C=0.7) = 26.0 cfs

Existing 36" CMP
Exist Flow (C=0.4) = 45.2 cfs
Proposed Flow(C=0.6) = 47.7 cfs

EXISTING DRAINAGE CRITERIA

Q = C I A
C = 0.40
I_{100} = 7.52 in/hr
tc = 15 min.

X — D.A. Designation
X.XX — Acres
XX.X — Q_{100} (cfs)

Existing Drainage Divide Line

PROPOSED DRAINAGE CRITERIA

Q = C I A
C = 0.70
I_{100} = 7.52 in/hr
tc = 15 min.

X — D.A. Designation
X.XX — Acres
XX.X — Q_{100} (cfs)

Proposed Drainage Divide Line

Refer To Sheet C31 for General Notes.

MISC. INFORMATION

BENCH MARK

FEMA BENCHMARK
SQUARE CUT ON NORTH END OF WEST HEADWALL OVER CREEK WEST SIDE OF S.H. NO. 289 – 150' + SOUTH OF F.M. NO. 455
ELEV. 702.97

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BIDDING & REVIEW RELEASE
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STATE OF TEXAS
RONNY KLINGBEIL
76831
REGISTERED
PROFESSIONAL ENGINEER
2/12/07

DRAINAGE AREA MAP

CELINA HIGH SCHOOL

S.H. 289 and C.R. 105
CELINA, TEXAS

DESIGNED BY:	TECH REVIEW:	DRAWING FILE:	DRAWING SCALE:	SHEET:
RLK Engineering	RLK	06076dsmap	1" = 40'	C 12 OF 32
DRAWN BY:	PEER REVIEW:	DRAWING DATE:	PROJECT NUMBER:	
RLK Engineering	RLK	12/18/06	RLK: 06076	

P-200702-01

DETENTION CALCULATION SUMMARY – POND 1 – 100 YR

EXISTING CONDITIONS
Area = 15.00 Ac.
C = 0.40
Tc = 15 min
I_{100} = 7.52 in/hr
Q_{100} = 45.1 cfs

PROPOSED CONDITIONS
Area = 14.23 Ac.
C = 0.70
Tc = 15 min
I_{100} = 7.52 in/hr
Q_{100} = 74.9 cfs

MAXIMUM TOTAL RELEASE RATE =
EXISTING CONDITIONS
Q_{100} = 45.1 cfs

UNDETAINED RELEASE RATE
Area 01 (1.63 Acres)
C = 0.70
Tc = 15 min
I_{100} = 7.52 in/hr
Q_{100} = 8.6 cfs

MAX. RELEASE FROM DETENTION FACILITY = MAXIMUM TOTAL RELEASE– UNDETAINED RELEASE
= 45.1 – 8.6 =
Q_{100} = 36.5 cfs

TOTAL DETENTION VOLUME REQUIRED
V = 46,837 cubic feet

TOTAL DETENTION VOLUME PROVIDED
V = 61,406 cubic feet
at 100 YR WSEL = 651.1

ORIFICE RESTRICTION CALCULATIONS
$Q = 0.8A\sqrt{2gh}$
Pond FL = 647.0
h = 3.10' (Based On 100yr HG–Center of Orifice)
651.10 – 649.00 = 2.10'
36.5 cfs = $0.8A\sqrt{2(32.2)(2.10)}$
A = 3.92 SF
Use 1.12' ø Orifice Plate

MODIFIED RATIONAL METHOD DETENTION BASIN DESIGN
PROJECT: Celina H.S. - 100 YR Pond 1
December 19, 2006

Runoff Coefficient C = 0.7
Drainage Area - A = 12.6 acres
Time of Concentration - tc = 15 minutes
Maximum Outflow Rate - Q = 36.5 cfs

Duration (minutes)	Intensity (inches/hr)	Depth (inches)	Inflow Discharge Q=CiA	Inflow Volume Cu. Ft.	Outflow Duration (minutes)	Outflow Volume Cu. Ft.	Storage Volume Cu. Ft.
5	10.49	0.87	92.5	27,757	20	21,900	5,857
10	8.74	1.46	77.1	46,252	25	27,375	18,877
15	7.52	1.88	66.3	59,694	30	32,850	26,844
20	6.80	2.27	60.0	71,971	35	38,325	33,646
30	5.75	2.88	50.7	91,287	45	49,275	42,012
40	5.00	3.33	44.1	105,840	55	60,225	45,615
50	4.46	3.72	39.3	118,012	65	71,175	46,837
60	3.91	3.91	34.5	124,150	75	82,125	42,025
70	3.60	4.20	31.8	133,358	85	93,075	40,283
80	3.35	4.47	29.5	141,826	95	104,025	37,801
90	3.10	4.65	27.3	147,647	105	114,975	32,672
120	2.62	5.24	23.1	166,380	135	147,825	18,555
180	1.91	5.73	16.8	181,939	195	213,525	(31,586)
360	1.16	6.96	10.2	220,994	375	410,625	(189,631)

Required Storage Volume 46,837 cubic feet
1.08 acre-feet

DETENTION CALCULATION SUMMARY – POND 1 – 50 YR

EXISTING CONDITIONS
Area = 15.00 Ac.
C = 0.40
Tc = 15 min
I_{50} = 6.89 in/hr
Q_{50} = 41.3 cfs

PROPOSED CONDITIONS
Area = 14.23 Ac.
C = 0.70
Tc = 15 min
I_{50} = 6.89 in/hr
Q_{50} = 68.6 cfs

MAXIMUM TOTAL RELEASE RATE =
EXISTING CONDITIONS
Q_{50} = 41.3 cfs

UNDETAINED RELEASE RATE
Area 01 (1.63 Acres)
C = 0.70
Tc = 15 min
I_{50} = 6.89 in/hr
Q_{50} = 7.9 cfs

MAX. RELEASE FROM DETENTION FACILITY = MAXIMUM TOTAL RELEASE– UNDETAINED RELEASE
= 41.3 – 7.9 =
Q_{50} = 33.4 cfs

ORIFICE RESTRICTION CALCULATIONS
Use 1.12' ø Orifice Plate, Solve for h
$Q = 0.8A\sqrt{2gh}$
A = 3.92 SF
33.4 cfs = $0.8(3.92)\sqrt{2(32.2)(h)}$
h = 1.76'
Center of Orifice + h = 25 YR WSEL
649.00 + 1.76 = 650.76
50 Year WSEL = 650.76

TOTAL DETENTION VOLUME PROVIDED
V = 41,020 cubic feet
41,020 > 30,620
Vol Provided > Vol Required

MODIFIED RATIONAL METHOD DETENTION BASIN DESIGN
PROJECT: Celina H.S. - 50 YR Pond 1
December 19, 2006

Runoff Coefficient C = 0.7
Drainage Area - A = 12.6 acres (A,B,C, D&R)
Time of Concentration - tc = 15 minutes
Maximum Outflow Rate - Q = 33.4 cfs

Duration (minutes)	Intensity (inches/hr)	Depth (inches)	Inflow Discharge Q=CiA	Inflow Volume Cu. Ft.	Outflow Duration (minutes)	Outflow Volume Cu. Ft.	Storage Volume Cu. Ft.
5	8.76	0.73	77.3	23,179	20	20,040	3,139
10	7.29	1.22	64.3	38,579	25	25,050	13,529
15	6.26	1.57	55.2	49,692	30	30,060	19,632
20	5.60	1.87	49.4	59,270	35	35,070	24,200
30	4.74	2.37	41.8	75,252	45	45,090	30,162
40	4.05	2.70	35.7	85,730	55	55,110	30,620
50	3.53	2.94	31.1	93,404	65	65,130	28,274
60	3.17	3.17	28.0	100,654	75	75,150	25,504
70	3.00	3.50	26.5	111,132	85	85,170	25,962
80	2.65	3.53	23.4	112,190	95	95,190	17,000
90	2.42	3.63	21.3	115,260	105	105,210	10,050

Required Storage Volume 30,620 cubic feet
0.70 acre-feet

DETENTION CALCULATION SUMMARY – POND 1 – 25 YR

EXISTING CONDITIONS
Area = 15.00 Ac.
C = 0.40
Tc = 15 min
I_{25} = 6.26 in/hr
Q_{25} = 37.6 cfs

PROPOSED CONDITIONS
Area = 14.23 Ac.
C = 0.70
Tc = 15 min
I_{25} = 6.26 in/hr
Q_{25} = 62.4 cfs

MAXIMUM TOTAL RELEASE RATE =
EXISTING CONDITIONS
Q_{25} = 37.6 cfs

UNDETAINED RELEASE RATE
Area 01 (1.63 Acres)
C = 0.70
Tc = 15 min
I_{25} = 6.26 in/hr
Q_{25} = 7.1 cfs

MAX. RELEASE FROM DETENTION FACILITY = MAXIMUM TOTAL RELEASE– UNDETAINED RELEASE
= 37.6 – 7.1 =
Q_{25} = 30.5 cfs

ORIFICE RESTRICTION CALCULATIONS
Use 1.12' ø Orifice Plate, Solve for h
$Q = 0.8A\sqrt{2gh}$
A = 3.92 SF
30.5 cfs = $0.8(3.92)\sqrt{2(32.2)(h)}$
h = 1.47'
Center of Orifice + h = 25 YR WSEL
649.00 + 1.47 = 650.47
25 Year WSEL = 650.47

TOTAL DETENTION VOLUME PROVIDED
V = 36,705 cubic feet
36,705 > 35,405
Vol Provided > Vol Required

MODIFIED RATIONAL METHOD DETENTION BASIN DESIGN
PROJECT: Celina H.S. - 25 YR Pond 1
December 19, 2006

Runoff Coefficient C = 0.7
Drainage Area - A = 12.6 acres (A,B,C, D&R)
Time of Concentration - tc = 15 minutes
Maximum Outflow Rate - Q = 30.5 cfs

Duration (minutes)	Intensity (inches/hr)	Depth (inches)	Inflow Discharge Q=CiA	Inflow Volume Cu. Ft.	Outflow Duration (minutes)	Outflow Volume Cu. Ft.	Storage Volume Cu. Ft.
5	8.76	0.73	77.3	23,179	20	18,300	4,879
10	7.29	1.22	64.3	38,579	25	22,875	15,704
15	6.26	1.57	55.2	49,692	30	27,450	22,242
20	5.60	1.87	49.4	59,270	35	32,025	27,245
30	4.74	2.37	41.8	75,252	45	41,175	34,077
40	4.05	2.70	35.7	85,730	55	50,325	35,405
50	3.53	2.94	31.1	93,404	65	59,475	33,929
60	3.17	3.17	28.0	100,654	75	68,625	32,029
70	3.00	3.50	26.5	111,132	85	77,775	33,357
80	2.65	3.53	23.4	112,190	95	86,925	25,265
90	2.42	3.63	21.3	115,260	105	96,075	19,185

Required Storage Volume 35,405 cubic feet
0.81 acre-feet

DETENTION CALCULATION SUMMARY – POND 1 – 10 YR

EXISTING CONDITIONS
Area = 15.00 Ac.
C = 0.40
Tc = 15 min
I_{10} = 5.46 in/hr
Q_{10} = 32.8 cfs

PROPOSED CONDITIONS
Area = 14.23 Ac.
C = 0.70
Tc = 15 min
I_{10} = 5.46 in/hr
Q_{10} = 54.4cfs

MAXIMUM TOTAL RELEASE RATE =
EXISTING CONDITIONS
Q_{10} = 32.76 cfs

UNDETAINED RELEASE RATE
Area 01 (1.63 Acres)
C = 0.70
Tc = 15 min
I_{10} = 5.46 in/hr
Q_{10} = 6.2 cfs

MAX. RELEASE FROM DETENTION FACILITY = MAXIMUM TOTAL RELEASE– UNDETAINED RELEASE
= 32.8 – 6.2 =
Q_{10} = 26.6 cfs

ORIFICE RESTRICTION CALCULATIONS
Use 1.12' ø Orifice Plate, Solve for h
$Q = 0.8A\sqrt{2gh}$
A = 3.92 SF
26.6 cfs = $0.8(3.92)\sqrt{2(32.2)(h)}$
h = 1.12'
Center of Orifice + h = 25 YR WSEL
649.00 + 1.12 = 650.12
10 Year WSEL = 650.12

TOTAL DETENTION VOLUME PROVIDED
V = 31,492 cubic feet
31,492 > 30,363
Vol Provided > Vol Required

MODIFIED RATIONAL METHOD DETENTION BASIN DESIGN
PROJECT: Celina H.S. - 10 YR Pond 1
December 19, 2006

Runoff Coefficient C = 0.7
Drainage Area - A = 12.6 acres (A,B,C, D&R)
Time of Concentration - tc = 15 minutes
Maximum Outflow Rate - Q = 26.5 cfs

Duration (minutes)	Intensity (inches/hr)	Depth (inches)	Inflow Discharge Q=CiA	Inflow Volume Cu. Ft.	Outflow Duration (minutes)	Outflow Volume Cu. Ft.	Storage Volume Cu. Ft.
5	7.66	0.64	67.6	20,268	20	15,900	4,368
10	6.36	1.06	56.1	33,657	25	19,875	13,782
15	5.46	1.37	48.2	43,341	30	23,850	19,491
20	4.85	1.62	42.8	51,332	35	27,825	23,507
30	4.09	2.05	36.1	64,933	45	35,775	29,158
40	3.50	2.33	30.9	74,088	55	43,725	30,363
50	3.05	2.54	26.9	80,703	65	51,675	29,028
60	2.69	2.69	23.7	85,413	75	59,625	25,788
70	2.49	2.91	22.0	92,240	85	67,575	24,665

Required Storage Volume 30,363 cubic feet
0.70 acre-feet

DETENTION CALCULATION SUMMARY – POND 1 – 5 YR

EXISTING CONDITIONS
Area = 15.00 Ac.
C = 0.40
Tc = 15 min
I_5 = 4.92 in/hr
Q_5 = 29.5 cfs

PROPOSED CONDITIONS
Area = 14.23 Ac.
C = 0.70
Tc = 15 min
I_5 = 4.92 in/hr
Q_5 = 49.0 cfs

MAXIMUM TOTAL RELEASE RATE =
EXISTING CONDITIONS
Q_5 = 29.52 cfs

UNDETAINED RELEASE RATE
Area 01 (1.63 Acres)
C = 0.70
Tc = 15 min
I_5 =4.92 in/hr
Q_5 = 5.6 cfs

MAX. RELEASE FROM DETENTION FACILITY = MAXIMUM TOTAL RELEASE– UNDETAINED RELEASE
= 29.5 – 5.6 =
Q_5 = 23.9 cfs

ORIFICE RESTRICTION CALCULATIONS
Use 1.12' ø Orifice Plate, Solve for h
$Q = 0.8A\sqrt{2gh}$
A = 3.92 SF
23.9 cfs = $0.8(3.92)\sqrt{2(32.2)(h)}$
h = 1.76'
Center of Orifice + h = 25 YR WSEL
649.00 + 0.90 = 649.9
5 Year WSEL = 649.90

TOTAL DETENTION VOLUME PROVIDED
V = 28,397 cubic feet
28,397 > 27,879
Vol Provided > Vol Required

MODIFIED RATIONAL METHOD DETENTION BASIN DESIGN
PROJECT: Celina H.S. - 5 YR Pond 1
December 19, 2006

Runoff Coefficient C = 0.7
Drainage Area - A = 12.6 acres (A,B,C, D&R)
Time of Concentration - tc = 15 minutes
Maximum Outflow Rate - Q = 23.9 cfs

Duration (minutes)	Intensity (inches/hr)	Depth (inches)	Inflow Discharge Q=CiA	Inflow Volume Cu. Ft.	Outflow Duration (minutes)	Outflow Volume Cu. Ft.	Storage Volume Cu. Ft.
5	6.95	0.58	61.3	18,390	20	14,340	4,050
10	5.74	0.96	50.6	30,376	25	17,925	12,451
15	4.92	1.23	43.4	39,055	30	21,510	17,545
20	4.38	1.46	38.6	46,358	35	25,095	21,263
30	3.66	1.83	32.3	58,106	45	32,265	25,841
40	3.18	2.12	28.0	67,314	55	39,435	27,879
50	2.65	2.21	23.4	70,119	65	46,605	23,514
60	2.35	2.35	20.7	74,617	75	53,775	20,842

Required Storage Volume 27,879 cubic feet
0.64 acre-feet

DETENTION CALCULATION SUMMARY – POND 2 – 100 YR

EXISTING CONDITIONS
Area = 12.84 Ac.
C = 0.40
Tc = 15 min
I_{100} = 7.52 in/hr
Q_{100} = 38.6 cfs

PROPOSED CONDITIONS
Area = 21.17 Ac.
C = 0.70
Tc = 15 min
I_{100} = 7.52 in/hr
Q_{100} = 111.4 cfs

MAXIMUM TOTAL RELEASE RATE =
EXISTING CONDITIONS
Q_{100} = 38.6 cfs

UNDETAINED RELEASE RATE
Area 02 (3.23 Acres)
C = 0.70
Tc = 15 min
I_{100} = 7.52 in/hr
Q_{100} = 17.0 cfs

MAX. RELEASE FROM DETENTION FACILITY = MAXIMUM TOTAL RELEASE– UNDETAINED RELEASE
= 38.6 – 17.0 =
Q_{100} = 21.6 cfs

TOTAL DETENTION VOLUME REQUIRED
V = 149,414 cubic feet

TOTAL DETENTION VOLUME PROVIDED
V = 179,728 cubic feet
at 100 YR WSEL = 654.2

ORIFICE RESTRICTION CALCULATIONS
$Q = 0.8A\sqrt{2gh}$
Pond FL = 648.0
h = 6.35' (Based On 100yr HG–Center of Orifice)
654.20 – 648.25 = 5.95'
21.6 cfs = $0.8A\sqrt{2(32.2)(5.95)}$
A = 1.38 SF
Use 0.66' ø Orifice Plate

MODIFIED RATIONAL METHOD DETENTION BASIN DESIGN
PROJECT: Celina H.S. - 100 YR Pond 2
December 19, 2006

Runoff Coefficient C = 0.7
Drainage Area - A = 17.94 acres
Time of Concentration - tc = 15 minutes
Maximum Outflow Rate - Q = 21.6 cfs

Duration (minutes)	Intensity (inches/hr)	Depth (inches)	Inflow Discharge Q=CiA	Inflow Volume Cu. Ft.	Outflow Duration (minutes)	Outflow Volume Cu. Ft.	Storage Volume Cu. Ft.
5	10.49	0.87	131.7	39,520	20	12,960	26,560
10	8.74	1.46	109.8	65,854	25	16,200	49,654
15	7.52	1.88	94.4	84,993	30	19,440	65,553
20	6.80	2.27	85.4	102,473	35	22,680	79,793
30	5.75	2.88	72.2	129,975	45	29,160	100,815
40	5.00	3.33	62.8	150,696	55	35,640	115,056
50	4.46	3.72	56.0	168,026	65	42,120	125,906
60	3.91	3.91	49.1	176,766	75	48,600	128,166
70	3.60	4.20	45.2	189,877	85	55,080	134,797
80	3.35	4.47	42.1	201,933	95	61,560	140,373
90	3.10	4.65	38.9	210,221	105	68,040	142,181
120	2.62	5.24	32.9	236,894	135	87,480	149,414
180	1.91	5.73	24.0	259,046	195	126,360	132,686
360	1.16	6.96	14.6	314,653	375	243,000	71,653

Required Storage Volume 149,414 cubic feet
3.43 acre-feet

DETENTION CALCULATION SUMMARY – POND 2 – 50 YR

EXISTING CONDITIONS
Area = 12.84 Ac.
C = 0.40
Tc = 15 min
I_{50} = 6.89 in/hr
Q_{50} = 35.4 cfs

PROPOSED CONDITIONS
Area = 21.17 Ac.
C = 0.70
Tc = 15 min
I_{50} = 6.89 in/hr
Q_{50} = 102.1 cfs

MAXIMUM TOTAL RELEASE RATE =
EXISTING CONDITIONS
Q_{50} = 35.4 cfs

UNDETAINED RELEASE RATE
Area 02 (3.23 Acres)
C = 0.70
Tc = 15 min
I_{50} = 6.89 in/hr
Q_{50} = 15.6 cfs

MAX. RELEASE FROM DETENTION FACILITY = MAXIMUM TOTAL RELEASE– UNDETAINED RELEASE
= 35.4 – 15.6 =
Q_{50} = 19.8 cfs

ORIFICE RESTRICTION CALCULATIONS
Use 0.66' ø Orifice Plate, Solve for h
$Q = 0.8A\sqrt{2gh}$
A = 1.38 SF
19.8 cfs = $0.8(1.38)\sqrt{2(32.2)(h)}$
h = 4.99'
Center of Orifice + h = 25 YR WSEL
649.00 + 4.99 = 653.99
50 Year WSEL = 653.99

TOTAL DETENTION VOLUME PROVIDED
V = 141,495 cubic feet
141,495 > 107,741
Vol Provided > Vol Required

MODIFIED RATIONAL METHOD DETENTION BASIN DESIGN
PROJECT: Celina H.S. - 50 YR Pond 2
December 19, 2006

Runoff Coefficient C = 0.7
Drainage Area - A = 17.94 acres (A,B,C, D&R)
Time of Concentration - tc = 15 minutes
Maximum Outflow Rate - Q = 19.8 cfs

Duration (minutes)	Intensity (inches/hr)	Depth (inches)	Inflow Discharge Q=CiA	Inflow Volume Cu. Ft.	Outflow Duration (minutes)	Outflow Volume Cu. Ft.	Storage Volume Cu. Ft.
5	8.76	0.73	110.0	33,002	20	11,880	21,122
10	7.29	1.22	91.5	54,929	25	14,850	40,079
15	6.26	1.57	78.6	70,752	30	17,820	52,932
20	5.60	1.87	70.3	84,390	35	20,790	63,600
30	4.74	2.37	59.5	107,145	45	26,730	80,415
40	4.05	2.70	50.9	122,064	55	32,670	89,394
50	3.53	2.94	44.3	132,989	65	38,610	94,379
60	3.17	3.17	39.8	143,312	75	44,550	98,762
70	3.00	3.50	37.7	158,231	85	50,490	107,741
80	2.65	3.53	33.3	159,738	95	56,430	103,308
90	2.42	3.63	30.4	164,108	105	62,370	101,738

Required Storage Volume 107,741 cubic feet
2.47 acre-feet

DETENTION CALCULATION SUMMARY – POND 2 – 25 YR

EXISTING CONDITIONS
Area = 12.84 Ac.
C = 0.40
Tc = 15 min
I_{25} = 6.26 in/hr
Q_{25} = 32.2 cfs

PROPOSED CONDITIONS
Area = 21.17 Ac.
C = 0.70
Tc = 15 min
I_{25} = 6.26 in/hr
Q_{25} = 92.8 cfs

MAXIMUM TOTAL RELEASE RATE =
EXISTING CONDITIONS
Q_{25} = 32.2 cfs

UNDETAINED RELEASE RATE
Area 02 (3.23 Acres)
C = 0.70
Tc = 15 min
I_{25} = 6.26 in/hr
Q_{25} = 14.2 cfs

MAX. RELEASE FROM DETENTION FACILITY = MAXIMUM TOTAL RELEASE– UNDETAINED RELEASE
= 32.2 – 14.2 =
Q_{25} = 18.0 cfs

ORIFICE RESTRICTION CALCULATIONS
Use 0.66' ø Orifice Plate, Solve for h
$Q = 0.8A\sqrt{2gh}$
A = 1.38 SF
18.0 cfs = $0.8(1.38)\sqrt{2(32.2)(h)}$
h = 4.13'
Center of Orifice + h = 25 YR WSEL
649.00 + 4.13 = 653.13
25 Year WSEL = 653.13

TOTAL DETENTION VOLUME PROVIDED
V = 111,598 cubic feet
111,598 > (0.99) 112,331
99% of 25 YR Detention Volume Provided

MODIFIED RATIONAL METHOD DETENTION BASIN DESIGN
PROJECT: Celina H.S. - 25 YR Pond 2
December 19, 2006

Runoff Coefficient C = 0.7
Drainage Area - A = 17.94 acres (A,B,C, D&R)
Time of Concentration - tc = 15 minutes
Maximum Outflow Rate - Q = 18.0 cfs

Duration (minutes)	Intensity (inches/hr)	Depth (inches)	Inflow Discharge Q=CiA	Inflow Volume Cu. Ft.	Outflow Duration (minutes)	Outflow Volume Cu. Ft.	Storage Volume Cu. Ft.
5	8.76	0.73	110.0	33,002	20	10,800	22,202
10	7.29	1.22	91.5	54,929	25	13,500	41,429
15	6.26	1.57	78.6	70,752	30	16,200	54,552
20	5.60	1.87	70.3	84,390	35	18,900	65,490
30	4.74	2.37	59.5	107,145	45	24,300	82,845
40	4.05	2.70	50.9	122,064	55	29,700	92,364
50	3.53	2.94	44.3	132,989	65	35,100	97,889
60	3.17	3.17	39.8	143,312	75	40,500	102,812
70	3.00	3.50	37.7	158,231	85	45,900	112,331
80	2.65	3.53	33.3	159,738	95	51,300	108,438
90	2.42	3.63	30.4	164,108	105	56,700	107,408

Required Storage Volume 112,331 cubic feet
2.58 acre-feet

DETENTION CALCULATION SUMMARY – POND 2 – 10 YR

EXISTING CONDITIONS
Area = 12.84 Ac.
C = 0.40
Tc = 15 min
I_{10} = 5.46 in/hr
Q_{10} = 28.6 cfs

PROPOSED CONDITIONS
Area = 21.17 Ac.
C = 0.70
Tc = 15 min
I_{10} = 5.46 in/hr
Q_{10} = 80.9 cfs

MAXIMUM TOTAL RELEASE RATE =
EXISTING CONDITIONS
Q_{10} = 28.6 cfs

UNDETAINED RELEASE RATE
Area 02 (3.23 Acres)
C = 0.70
Tc = 15 min
I_{10} = 5.46 in/hr
Q_{10} = 12.3 cfs

MAX. RELEASE FROM DETENTION FACILITY = MAXIMUM TOTAL RELEASE– UNDETAINED RELEASE
= 28.6 – 12.3 =
Q_{10} = 16.3 cfs

ORIFICE RESTRICTION CALCULATIONS
Use 0.66' ø Orifice Plate, Solve for h
$Q = 0.8A\sqrt{2gh}$
A = 1.38 SF
16.3 cfs = $0.8(1.38)\sqrt{2(32.2)(h)}$
h = 3.38'
Center of Orifice + h = 25 YR, WSEL
649.00 + 3.38 = 652.38
10 Year WSEL = 652.38

TOTAL DETENTION VOLUME PROVIDED
V = 87,395 cubic feet
87,395 > (0.95) 91,583
95% of 10 YR Detention Volume Provided

MODIFIED RATIONAL METHOD DETENTION BASIN DESIGN
PROJECT: Celina H.S. - 10 YR Pond 2
December 19, 2006

Runoff Coefficient C = 0.7
Drainage Area - A = 17.94 acres (A,B,C, D&R)
Time of Concentration - tc = 15 minutes
Maximum Outflow Rate - Q = 16.3 cfs

Duration (minutes)	Intensity (inches/hr)	Depth (inches)	Inflow Discharge Q=CiA	Inflow Volume Cu. Ft.	Outflow Duration (minutes)	Outflow Volume Cu. Ft.	Storage Volume Cu. Ft.
5	7.66	0.64	96.2	28,858	20	9,780	19,078
10	6.36	1.06	79.9	47,921	25	12,225	35,696
15	5.46	1.37	68.6	61,710	30	14,670	47,040
20	4.85	1.62	60.9	73,088	35	17,115	55,973
30	4.09	2.05	51.4	92,452	45	22,005	70,447
40	3.50	2.33	44.0	105,487	55	26,895	78,592
50	3.05	2.54	38.3	114,906	65	31,785	83,121
60	2.69	2.69	33.8	121,612	75	36,675	84,937
70	2.49	2.91	31.3	131,332	85	41,565	89,767
80	2.29	3.05	28.8	138,038	95	46,455	91,583
90	2.10	3.15	26.4	142,408	105	51,345	91,063
100	1.95	3.25	24.5	146,929	115	56,235	90,694
110	1.84	3.37	23.1	152,504	125	61,125	91,379

Required Storage Volume 91,583 cubic feet
2.10 acre-feet

DETENTION CALCULATION SUMMARY – POND 2 – 5 YR

EXISTING CONDITIONS
Area = 12.84 Ac.
C = 0.40
Tc = 15 min
I_5 = 4.92 in/hr
Q_5 = 25.3 cfs

PROPOSED CONDITIONS
Area = 21.17 Ac.
C = 0.70
Tc = 15 min
I_5 = 4.92 in/hr
Q_5 = 72.9 cfs

MAXIMUM TOTAL RELEASE RATE =
EXISTING CONDITIONS
Q_5 = 25.3 cfs

UNDETAINED RELEASE RATE
Area 02 (3.23 Acres)
C = 0.70
Tc = 15 min
I_5 = 4.92 in/hr
Q_5 = 11.1 cfs

MAX. RELEASE FROM DETENTION FACILITY = MAXIMUM TOTAL RELEASE– UNDETAINED RELEASE
= 25.3 – 11.1 =
Q_5 = 14.2 cfs

ORIFICE RESTRICTION CALCULATIONS
Use 0.66' ø Orifice Plate, Solve for h
$Q = 0.8A\sqrt{2gh}$
A = 1.38 SF
14.2 cfs = $0.8(1.38)\sqrt{2(32.2)(h)}$
h = 2.57'
Center of Orifice + h = 25 YR WSEL
649.00 + 2.57 = 651.57
5 Year WSEL = 651.57

TOTAL DETENTION VOLUME PROVIDED
V = 62,935 cubic feet
62,935 > (0.81) 77,705
81% of 5 YR Detention Volume Provided

MODIFIED RATIONAL METHOD DETENTION BASIN DESIGN
PROJECT: Celina H.S. - 5 YR Pond 2
December 19, 2006

Runoff Coefficient C = 0.7
Drainage Area - A = 17.94 acres (A,B,C, D&R)
Time of Concentration - tc = 15 minutes
Maximum Outflow Rate - Q = 14.2 cfs

Duration (minutes)	Intensity (inches/hr)	Depth (inches)	Inflow Discharge Q=CiA	Inflow Volume Cu. Ft.	Outflow Duration (minutes)	Outflow Volume Cu. Ft.	Storage Volume Cu. Ft.
5	6.95	0.58	87.3	26,183	20	8,520	17,663
10	5.74	0.96	72.1	43,250	25	10,650	32,600
15	4.92	1.23	61.8	55,607	30	12,780	42,827
20	4.38	1.46	55.0	66,005	35	14,910	51,095
30	3.66	1.83	46.0	82,732	45	19,170	63,562
40	3.18	2.12	39.9	95,843	55	23,430	72,413
50	2.65	2.21	33.3	99,836	65	27,690	72,146
60	2.38	2.38	29.9	107,597	75	31,950	75,647
70	2.15	2.51	27.0	113,399	85	36,210	77,189
80	1.95	2.60	24.5	117,543	95	40,470	77,073
90	1.80	2.70	22.6	122,064	105	44,730	77,334
100	1.68	2.80	21.1	126,585	115	48,990	77,595
110	1.58	2.90	19.8	130,955	125	53,250	77,705
120	1.46	2.92	18.3	132,010	135	57,510	74,500
130	1.39	3.01	17.5	136,154	145	61,770	74,384

Required Storage Volume 77,705 cubic feet
1.78 acre-feet

Refer To Sheet C31 for General Notes.

MISC. INFORMATION

BENCH MARK
FEMA BENCHMARK
SQUARE CUT ON NORTH END OF WEST HEADWALL OVER CREEK WEST SIDE OF S.H. NO. 289 – 150' + SOUTH OF F.M. NO. 455
ELEV. 702.97

BIDDING & REVIEW RELEASE
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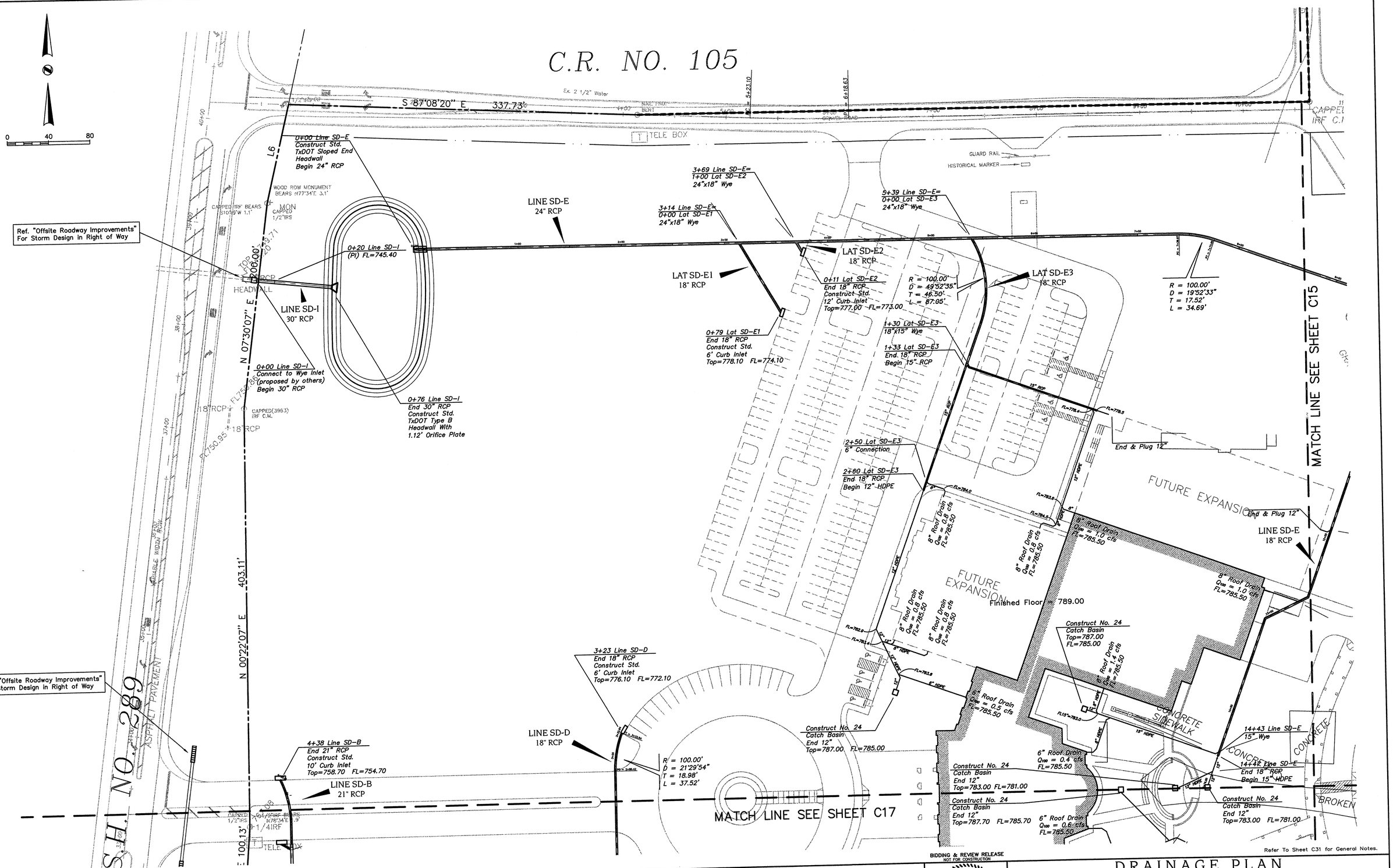
REVISION	DATE	DESCRIPTION

RLK ENGINEERING, INC.
111 West Main
Allen, Texas 75013
(972) 359-1733 Off
(972) 359-1833 Fax

BIDDING & REVIEW RELEASE
NOT FOR CONSTRUCTION
STATE OF TEXAS
RONNY KLINGBEIL
76831
REGISTERED PROFESSIONAL ENGINEER
P.E.
2/12/07

DETENTION POND CALCULATIONS
CELINA HIGH SCHOOL
S.H. 289 and C.R. 105
CELINA, TEXAS

DESIGNED BY:	TECH REVIEW:	DRAWING FILE:	DRAWING SCALE:	SHEET:
RLK Engineering	*RLK*	*06076damap*	*1" = 40'*	C 12a OF 32
DRAWN BY: *RLK Engineering*	PEER REVIEW: *RLK*	DRAWING DATE: *12/18/06*	PROJECT NUMBER: *RLK: 06076*	



MISC. INFORMATION

BENCH MARK

FEMA BENCHMARK
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ELEV. 702.97

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111 West Main
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STATE OF TEXAS
RONNY KLINGBEIL
76831
LICENSED
PROFESSIONAL ENGINEER
7/12/07

BIDDING & REVIEW RELEASE
NOT FOR CONSTRUCTION

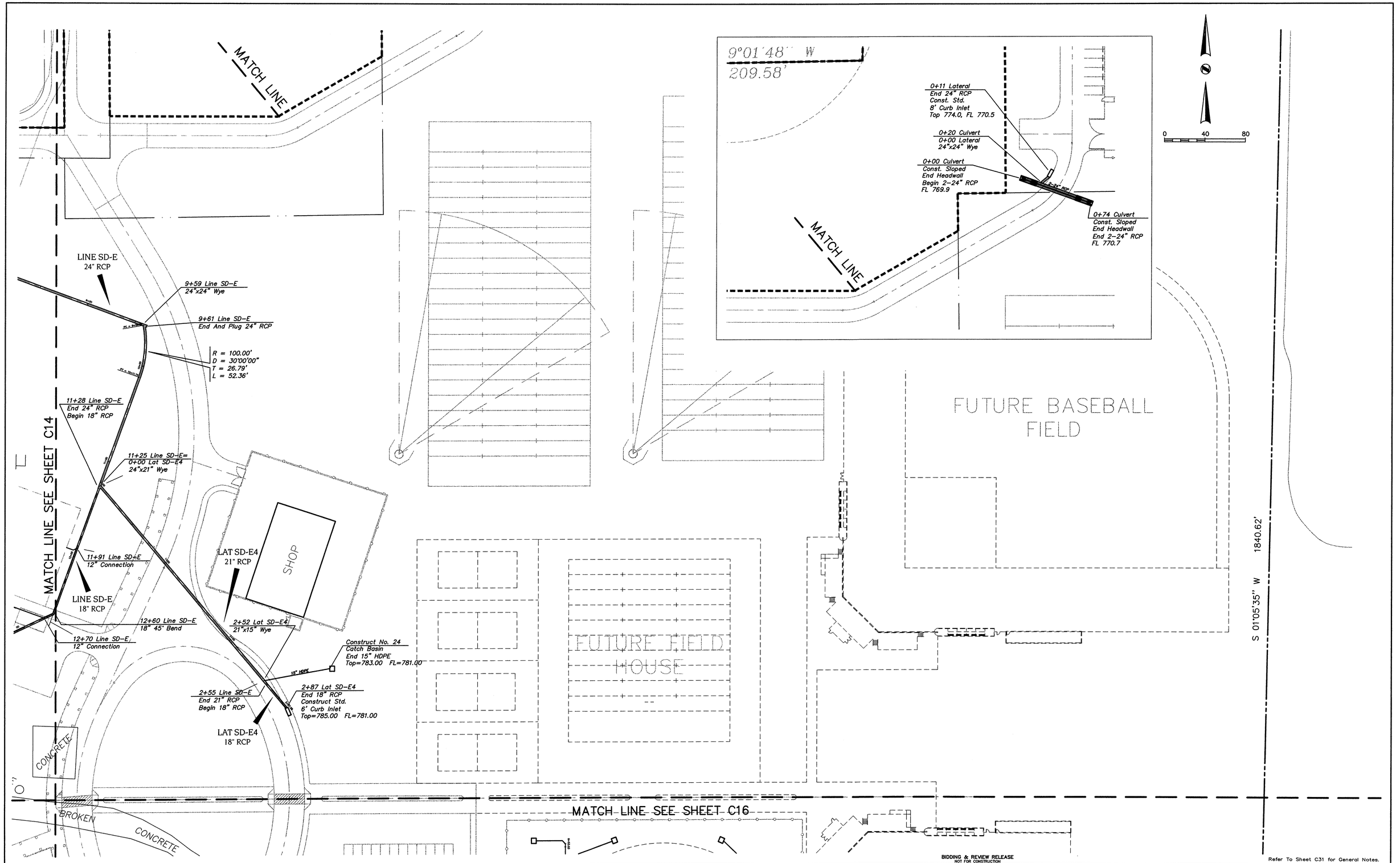
DRAINAGE PLAN

CELINA HIGH SCHOOL

S.H. 289 and C.R. 105
CELINA, TEXAS

DESIGNED BY: RLK Engineering	TECH REVIEW: RLK	DRAWING FILE: 06076 DRG1.dwg	DRAWING SCALE: 1" = 40'	SHEET: C 13 OF 32
DRAWN BY: RLK Engineering	PEER REVIEW: RLK	DRAWING DATE: 12/18/06	PROJECT NUMBER: RLK: 06076	

P-200702-01



Refer To Sheet C31 for General Notes.

MISC. INFORMATION	REVISION	DATE	DESCRIPTION
BENCH MARK FEMA BENCHMARK SQUARE CUT ON NORTH END OF WEST HEADWALL OVER CREEK WEST SIDE OF S.H. NO. 289 – 150' + SOUTH OF F.M. NO. 455 ELEV. 702.97			

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STATE OF TEXAS
RONNY KLINGEBIEL
76831
REGISTERED
PROFESSIONAL
ENGINEER
2/12/07

DRAINAGE PLAN

CELINA HIGH SCHOOL

S.H. 289 and C.R. 105
CELINA, TEXAS

DESIGNED BY: RLK Engineering	TECH REVIEW: RLK	DRAWING FILE: 06076 DRG2.dwg	DRAWING SCALE: 1" = 40'	SHEET: C 14 OF 32
DRAWN BY: RLK Engineering	PEER REVIEW: RLK	DRAWING DATE: 12/18/06	PROJECT NUMBER: RLK: 06076	

P-200702-01

MATCH LINE SEE SHEET C17

MATCH LINE SEE SHEET C15

BROKEN CONCRETE

LINE SD-A
18" RCP

13+80 Line SD-A
6" Connection

13+54 Line SD-A
1-18" 45° Bend

2+05 Lat SD-A4
End 18" RCP
Construct Std.
6' Curb Inlet
Top=784.90 FL=780.90

LAT SD-A4
18" RCP

13+23 Line SD-A
8" Connection

13+20 Line SD-A
6" Connection

Construct No. 24
Catch Basin
Top=784.50 FL=782.50

12+32 Line SD-A=
0+00 Lat SD-A4
24"x18" Wye

LAT SD-A5
21" RCP

3+13 Lat SD-A5
End 21" RCP
Construct Std.
12' Curb Inlet
Top=780.50 FL=776.50

12+35 Line SD-A
End 24" RCP
Begin 18" RCP

FUTURE EXPANSION

Construct No. 24
Catch Basin
Top=784.20
FL=782.20

12+21 Line SD-A
8" Connection

11+94 Line SD-A=
0+00 Lat SD-A5
24"x21" Wye

11+76 Line SD-A
12" Connection

Ex. 8" Water

Ex. 2 1/2" Water

R = 100.00'
D = 29°53'49"
T = 26.70'
L = 52.18'

LINE SD-A
24" RCP

10+47 Line SD-A
24"x24" Wye
End And Plug 24" RCP

7+14 Lat SD-F
End 18" RCP
Construct Std.
10' Curb Inlet
Top=780.00 FL=776.00

LINE SD-A
24" RCP

LINE SD-F
18" RCP

6+24 Line SD-F=
0+00 Lat SD-F1
18"x18" Wye

R = 100.00'
D = 20°00'00"
T = 17.63'
L = 34.91'

LAT SD-F1
18" RCP

LAT SD-F2
18" RCP

0+61 Lat SD-F1
End 18" RCP
Construct 3'x3'
Wye Inlet
Throat=779.50 FL=776.50

1/2"IRF
C.M.

L3

WM

1/2"IRF
C.M.

L2

L4

L1

METAL SHOP BUILDING

1.00 ACRES
GUNTER WATER SUPPLY CORP.
VOLUME 2647 PAGE 703

5/8"IRF
C.M.

SIGN

1/2"IRS

SIGN

5.635

1/2"IRS

9.55 ACRES
GUNTER WATER
SUPPLY CORP.
VOLUME 795 PAGE 810

ROW DEDICATION
VOLUME 3670 PAGE 231

Ref. "Offsite Roadway Improvements"
For Storm Design in Right of Way

46.885 ACRES
PHILIP M. LITTEL
VOLUME 2869 PAGE 835

6+83 Line SD-G
End 15" HDPE
Construct No. 24
Catch Basin
Top=782.00 FL=780.00

Construct No. 24
Catch Basin
Top=782.00 FL=780.00

Construct No. 24
Catch Basin
Top=782.00 FL=780.00

6+39 Line SD-G
15"x12" Wye

Slotted Drain per Detail.
Continuous Around
Entire Track.

12" Wye
FL=780.05

12" Wye
FL=779.26

12" Wye
FL=780.05

12" Wye
FL=778.47

12" Wye
FL=778.69

Construct No. 24
Catch Basin
Top=782.00 FL=780.00

FUTURE SOFTBALL FIELD

5+59 Line SD-G
End 21" RCP
Begin 18" HDPE

LINE SD-G
18" RCP

5+39 Line SD-G
End 21" RCP
Begin 18" HDPE

5+43 Line SD-G
End 21" RCP
Begin 12" RCP

5+39 Line SD-Ga
12" Wye

5+25 Line SD-G
12" Wye

5+13 Line SD-Ga
12" Wye

4+63 Line SD-Ga
12" Wye

4+75 Line SD-G
12" Wye

4+13 Line SD-Ga
12" Wye

LINE SD-G
21" RCP

LINE SD-Ga
21" RCP

4+25 Line SD-G
12" Wye

Slotted Drain per Detail.
Continuous Around
Entire Track.

3+75 Line SD-G
12" Wye

FUTURE SOFTBALL FIELD

3+57 Line SD-G
End 24" RCP
Begin 21" RCP

3+25 Line SD-G
12" Wye

2+75 Line SD-G
12" Wye

LINE SD-G
24" RCP

2+25 Line SD-G
12" Wye

1+79 Line SD-G
24" 30° Bend

1+74 Line SD-G
12" Wye

LINE SD-Ga
24" RCP

0+79 Line SD-G
12" Wye

0+76 Line SD-G
30" 45° Bend

0+19 Line SD-Ga
30" 45° Bend

0+28 Line SD-Ga
12" Wye

1+25 Line SD-G
12" Wye

1+25 Line SD-G
24" 30° Bend

0+95 Line SD-G
24" 30° Bend

0+88 Line SD-G
End 30" RCP
Begin 24" RCP

0+74 Line SD-G
30" 30° Bend

0+68 Line SD-G
0+00 Line SD-Ga
30"x30" Wye

LINE SD-Ga
30" RCP

LINE SD-G
30" RCP

0+00 Line SD-G
Construct TxDOT
Headwall CH-FW-00
Begin 30" RCP

3+63 Line SD-Ga
12" Wye

3+54 Line SD-G
End 24" RCP
Begin 21" RCP

3+13 Line SD-Ga
12" Wye

2+63 Line SD-Ga
12" Wye

2+13 Line SD-Ga
12" Wye

1+68 Line SD-Ga
24" 30° Bend

1+63 Line SD-Ga
12" Wye

1+16 Line SD-Ga
24" 30° Bend

1+15 Line SD-Ga
12" Wye

0+83 Line SD-Ga
24" 45° Bend

0+71 Line SD-Ga
12" Wye

N 89°31'52" W 839.96'

WIRE FENCE

POB
1/2"IRS

RR SPK
FND. C.M.

SITE BENCH MARK
RR SPIKE IN ROAD
ELEV. 787.21

TREELINE

WIRE FENCE

WM. RATTAN SURVEY ABSTRACT NO. 753
SAMUEL QUEEN SURVEY ABSTRACT NO. 732

REMAINING 30.00 ACRES OF THE 150.995 ACRES
STEWART DAWSON AND AVERILLE DAWSON
VOLUME 4730 PAGE 1837

0 40 80

13+00 14+00 15+00 16+00 17+00 18+00 19+00 20+00 21+00 22+00 23+00 24+00 25+00

35.00

4"-3000 P.S.I. Conc.
Reinf. W/#3
Bars 18" o.c.
min. ea. way

Top of slot
Elev = 782.55

1' 2'

4"-3000 P.S.I. Conc.
Reinf. W/#3
Bars 18" o.c.
min. ea. way

Curb, Elev. =782.6

Track

2.0% 2.0%

6"

Lean Grout Backfill
per Manufacturer's
Specifications.

12" Slotted Drain.
Contech Versa Drain
w/Pedestrian Grate
and 6" Throat or
Approved Equal.
Grate and Drain shall
be traffic bearing.

12" Stm. Sew.

Connect to 12" Stm. Sew.
Stubouts @ ~50' O.C.

FL of slot
Elev = 781.05

SLOTTED DRAIN DETAIL

N.T.S.

Refer To Sheet C31 for General Notes.

MISC. INFORMATION
BENCH MARK
FEMA BENCHMARK SQUARE CUT ON NORTH END OF WEST HEADWALL OVER CREEK WEST SIDE OF S.H. NO. 289 – 150' + SOUTH OF F.M. NO. 455 ELEV. 702.97

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STATE OF TEXAS
RONNY KLINGBEIL
76831
REGISTERED
PROFESSIONAL ENGINEER
2/12/07

DRAINAGE PLAN

CELINA HIGH SCHOOL

S.H. 289 and C.R. 105
CELINA, TEXAS

DESIGNED BY:	TECH REVIEW:	DRAWING FILE:	DRAWING SCALE:	SHEET:
RLK Engineering	RLK	06076 DRG3.dwg	1" = 40'	C 15 OF 32
DRAWN BY:	PEER REVIEW:	DRAWING DATE:	PROJECT NUMBER:	
RLK Engineering	RLK	12/18/06	RLK: 06076	

P-200702-01

Ref. "Offsite Roadway Improvements" For Storm Design in Right of Way

0 40 80

MATCH LINE SEE SHEET C14

MATCH LINE SEE SHEET C16

PRESTON ROAD / S.H. 289

LINE SD-B
21" RCP

3+51 Line SD-B
End 30" RCP
Begin 21" RCP

3+48 Line SD-B
0+00 Lat SD-B1
30"x18" Wye

0+11 Lat SD-B1
End 18" RCP
Construct Std.
10' Curb Inlet
Top=758.70
FL=754.70

LAT SD-B1
18" RCP

CAPPED 1/2"IRS
N78°34'E
0.3' 1/4IRF

WOOD ROW MONUMENT BEARS N74°46' 1.9'
CAPPED(3963) IRF WOOD MON

N 04°38'07" E 100.13'

N 07°30'07" E 200.00'

WIRE FENCE

CAPPED(3963) IRF C.M.

LINE SD-B
30" RCP

R = 100.00'
D = 30°00'00"
T = 26.79'
L = 52.36'

LINE SD-C
18" RCP

1+19 Line SD-B=
0+00 Line SD-C
30"x18" Wye

0+00 Line SD-B
Construct Std.
TxDOT Sloped End
Headwall
Begin 30" RCP

LAT SD-D1
18" RCP

1+82 Line SD-D=
0+00 Lat SD-D1
18"x18" Wye

0+09 Lat SD-D1
End 18" RCP
Construct Std.
6' Curb Inlet
Top=776.10 FL=772.10

LINE SD-D
18" RCP

R = 100.00'
D = 30°00'00"
T = 26.79'
L = 52.36'

3+04 Line SD-C=
0+00 Line SD-D
18"x18" Wye

3+40 Line SD-C
End 18" RCP
Construct Std.
6' Curb Inlet
Top=779.90 FL=775.90

Construct No. 24
Catch Basin
End 12"
Top=787.00 FL=785.00

Construct No. 24
Catch Basin
End 12"
Top=787.70 FL=785.70
6" Roof Drain
Q_{100} = 0.6 cfs
FL=785.50

8" Roof Drain
Q_{100} = 0.5 cfs
FL=785.50

6" Roof Drain
Q_{100} = 0.6 cfs
FL=785.50

14+51 Line SD-A
End 18" RCP
Begin 12" HDPE

14+48 Line SD-A=
0+00 Lat SD-A2
18"x12" Wye

4" Roof Drain
Q_{100} = 0.5 cfs
FL=785.50

All Storm in Service Area Shall be RCP.

LINE SD-A
18" RCP

Construct No. 24
Catch Basin
End 12"
Top=787.00 FL=785.00

0+10 Lat SD-A2
End 12" RCP
Construct No. 24
Catch Basin
Top=787.50 FL=783.50
Catch Basin, Grate and Frame
Shall Be Traffic Bearing

4" Roof Drain
Q_{100} = 0.2 cfs
FL=785.50

Finished Floor = 789.00

Finished Floor = 786.50

6" Roof Drain
Q_{100} = 0.7 cfs
FL=782.00

Construct No. 24
Catch Basin
Top=784.80
FL=782.80

LAT SD-A7
12" HDPE

6" Roof Drain
Q_{100} = 0.6 cfs
FL=785.50

3+00 Lat SD-A7
End 15" RCP
Begin 12" HDPE

8" Roof Drain
Q_{100} = 0.9 cfs
FL=785.50

Finished Floor = 786.50

8" Roof Drain
Q_{100} = 0.9 cfs
FL=782.00

8" Roof Drain
Q_{100} = 0.9 cfs
FL=785.50

LAT SD-A7
15" RCP

1+62 Lat SD-A7
End 18" RCP
Begin 15" HDPE

1+59 Lat SD-A7
12" Connection

0+17 Lat SD-A6
End 18" RCP
Construct Std.
10' Curb Inlet
Top=780.70 FL=776.70

LINE SD-A
24" RCP

2+51 Line SD-F=
0+00 Lat SD-F2
18"x18" Wye

R = 100.00'
D = 20°00'00"
T = 17.63'
L = 34.91'

LAT SD-A6
18" RCP

5+94 Line SD-A=
0+00 Lat SD-A7
30"x15" Wye

LINE SD-F
18" RCP

R = 100.00'
D = 33°59'53"
T = 30.57'
L = 59.34'

LAT SD-F2
18" RCP

LAT SD-F3
18" RCP

0+56 Lat SD-F2
End 18" RCP
Construct Std.
10' Curb Inlet
Top=780.50 FL=776.50

0+45 Line SD-F=
0+00 Lat SD-F3
18"x18" Wye

0+00 Line SD-F
Connect to Ex.
4' Wye Inlet
Begin 18" RCP

5+98 Line SD-A
End 30" RCP
Begin 24" RCP

6+07 Line SD-A=
0+00 Lat SD-A6
30"x 18" Wye

0+74 Lat SD-F3
End 18" RCP
Construct Std.
10' Curb Inlet
Top=779.50 FL=775.50

0+00 Line SD-A
Construct Std.
TxDOT Sloped End
Headwall
Begin 30" RCP

LINE SD-A
30" RCP

0+45 Lat SD-A8
End 18" RCP
Construct Std.
10' Curb Inlet
Top=775.30 FL=771.30

LAT SD-A8
18" RCP

R = 100.00'
D = 19°53'40"
T = 17.54'
L = 34.72'

3+14 Line SD-A=
0+00 Lat SD-A8
30"x18" Wye

R = 100.00'
D = 30°00'00"
T = 26.79'
L = 52.36'

1+20 Line SD-H
End 24" RCP
Construct Std.
TxDOT Type B
Headwall With
0.66" Orifice Plate

LINE SD-H
24" RCP

403.77'

N 15°20'07" E

FL739.95

18"RCP

FL738.67

18"RCP

all 125 SY 12" inal ø Rock Rap

0+00 Line SD-H
Construct Std.
TxDOT Sloped End
Headwall
Begin 24" RCP

CAPPED(3963) IRF C.M.

COLUMN

FL737.26

24" CMP

S 89°53'40" W 1213.02'

FL752.45

18" CMP

FL753.92

18" CMP

24" CMP SIGN

GAS BOX

CAPPED 1/2"IRS

2+00 3+00 4+00 5+00 6+00 7+00 8+00 9+00 10+00 11+00

SIGN

ASPHALT PAVEMENT

WIRE FENCE

FL786.75

36"CMP

12" CMP

FL764.97

36"CMP

C.R. NO. 134

24" CMP

CAPPED (3863) IRF C.M.

CAPPED (3863) IRF C.M.

ROW DEDICATION
VOLUME 3198 PAGE 356

28.34 ACRES

87.59 ACRES
VANCE STALLCUP
VOLUME 647 PAGE 356

LARKIN M. BOYD SURVEY ABSTRACT NO. 48

1/2"IRS

1/2"IRF C.M.

Ref. "Offsite Roadway Improvements" For Storm Design in Right of Way

Ref. "Offsite Roadway Improvements" For Storm Design in Right of Way

Refer To Sheet C31 for General Notes.

FUTURE EXPANSION

APPEA ENCRO

L4

MISC. INFORMATION	REVISION	DATE	DESCRIPTION
BENCH MARK FEMA BENCHMARK SQUARE CUT ON NORTH END OF WEST HEADWALL OVER CREEK WEST SIDE OF S.H. NO. 289 – 150' + SOUTH OF F.M. NO. 455 ELEV. 702.97			

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RLK ENGINEERING

RLK ENGINEERING, INC.
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(972) 359-1733 Off
(972) 359-1833 Fax

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STATE OF TEXAS
RONNY KLINGBEIL
76831
REGISTERED
PROFESSIONAL ENGINEER
12/12/07

DRAINAGE PLAN

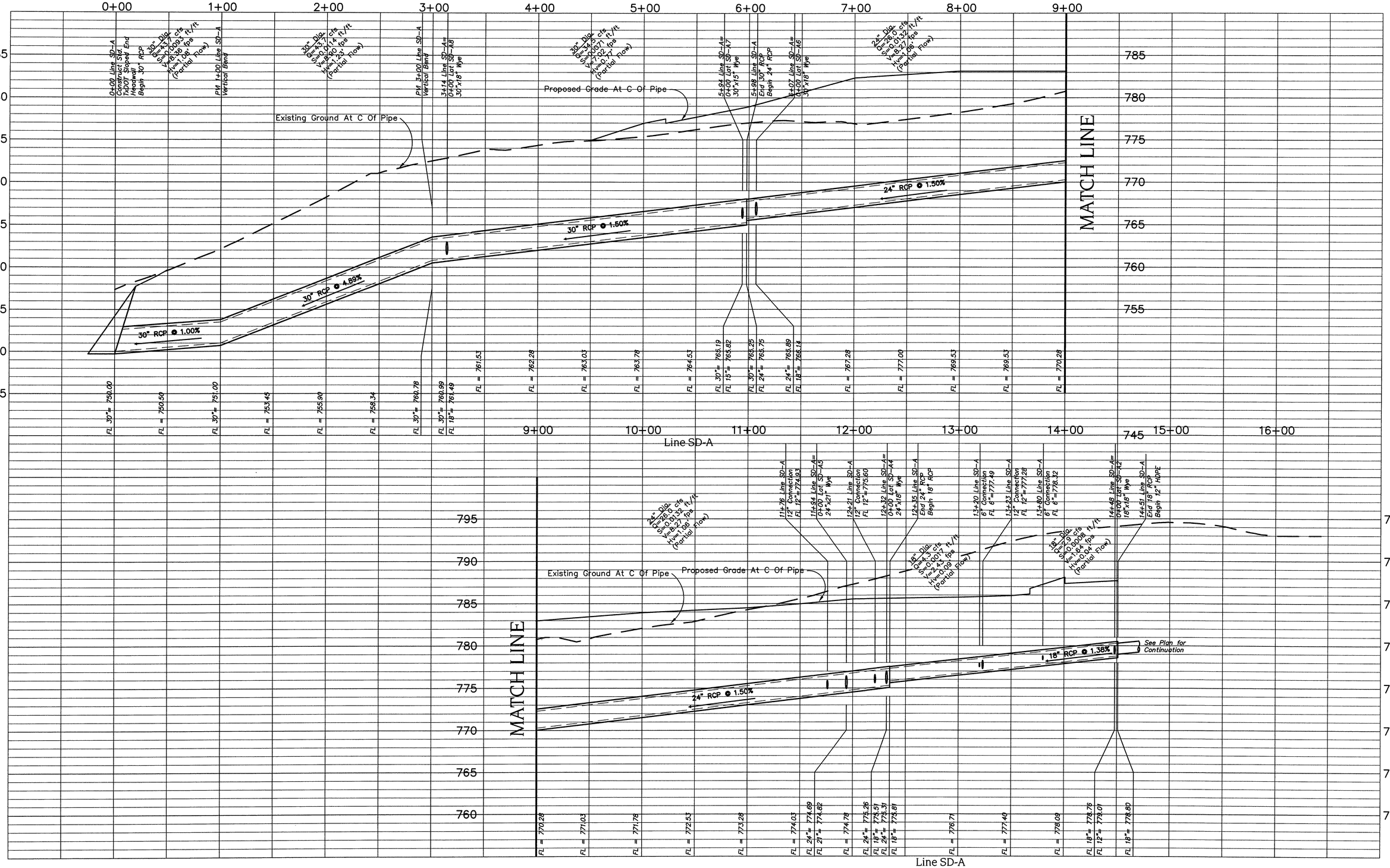
CELINA HIGH SCHOOL

S.H. 289 and C.R. 105
CELINA, TEXAS

DESIGNED BY: RLK Engineering	TECH REVIEW: RLK	DRAWING FILE: 06076 DRG4.dwg	DRAWING SCALE: 1" = 40'
DRAWN BY: RLK Engineering	PEER REVIEW: RLK	DRAWING DATE: 12/18/06	PROJECT NUMBER: RLK: 06076

SHEET: C 16 OF 32

P-200702-01



Refer To Sheet C31 for General Notes.

MISC. INFORMATION

BENCH MARK

FEMA BENCHMARK
SQUARE CUT ON NORTH END OF WEST HEADWALL OVER CREEK WEST SIDE OF S.H. NO. 289 – 150' + SOUTH OF F.M. NO. 455
ELEV. 702.97

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RONNY KUNGBOO
76831
LICENSED PROFESSIONAL ENGINEER
2/12/07

STORM SEWER PROFILES

CELINA HIGH SCHOOL

S.H. 289 and C.R. 105
CELINA, TEXAS

DESIGNED BY: RLK Engineering	TECH REVIEW: RLK	DRAWING FILE: 06076 STM-PROF1.dwg	DRAWING SCALE: 1" = 40'	SHEET: C 17 OF 32
DRAWN BY: RLK Engineering	PEER REVIEW: RLK	DRAWING DATE: 12/18/06	PROJECT NUMBER: RLK: 06076	

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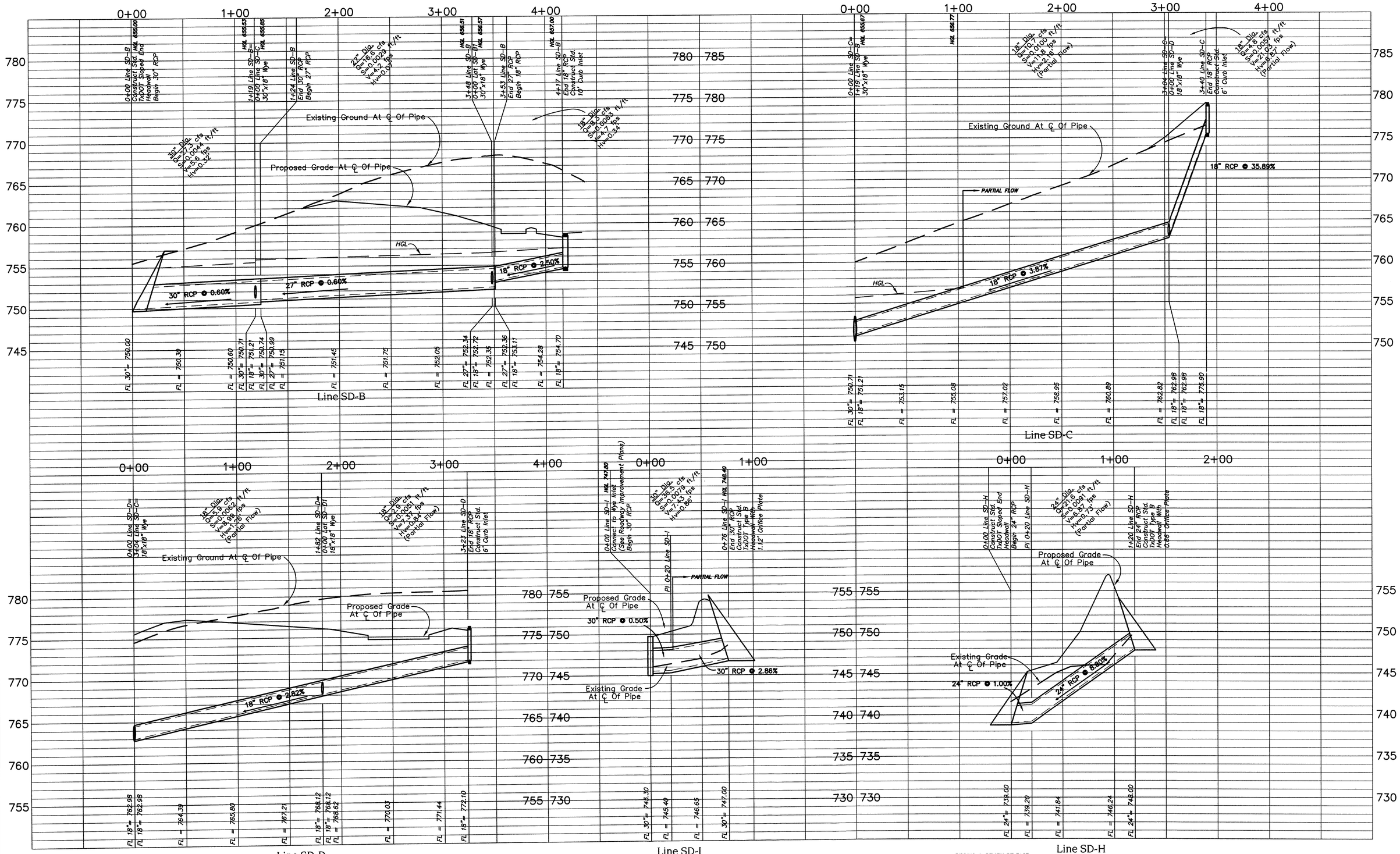

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12/18/06

STORM SEWER PROFILES

CELINA HIGH SCHOOL
S.H. 289 and C.R. 105
CELINA, TEXAS

DESIGNED BY:	TECH REVIEW:	DRAWING FILE:	DRAWING SCALE:	SHEET:
RLK Engineering	RLK	06076 STM-PROF2.dwg	1" = 40'	C 18 OF 32
DRAWN BY:	PEER REVIEW:	DRAWING DATE:	PROJECT NUMBER:	
RLK Engineering	RLK	12/18/06	RLK. 06076	

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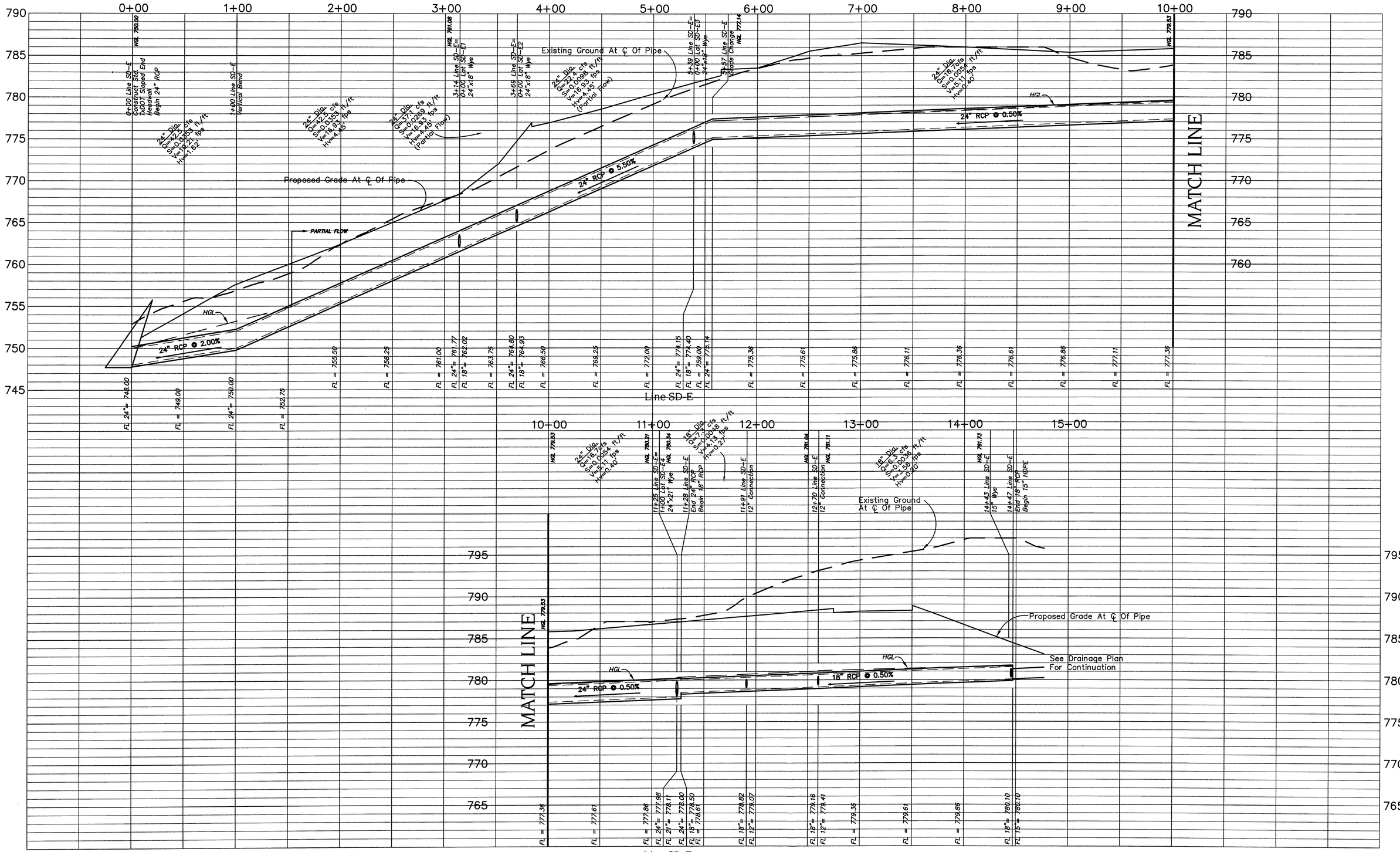

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2/14/07

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STORM SEWER PROFILES

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CELINA, TEXAS

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DRAWN BY: RLK Engineering	PEER REVIEW: RLK	DRAWING DATE: 12/18/06	PROJECT NUMBER: RLK: 06076	

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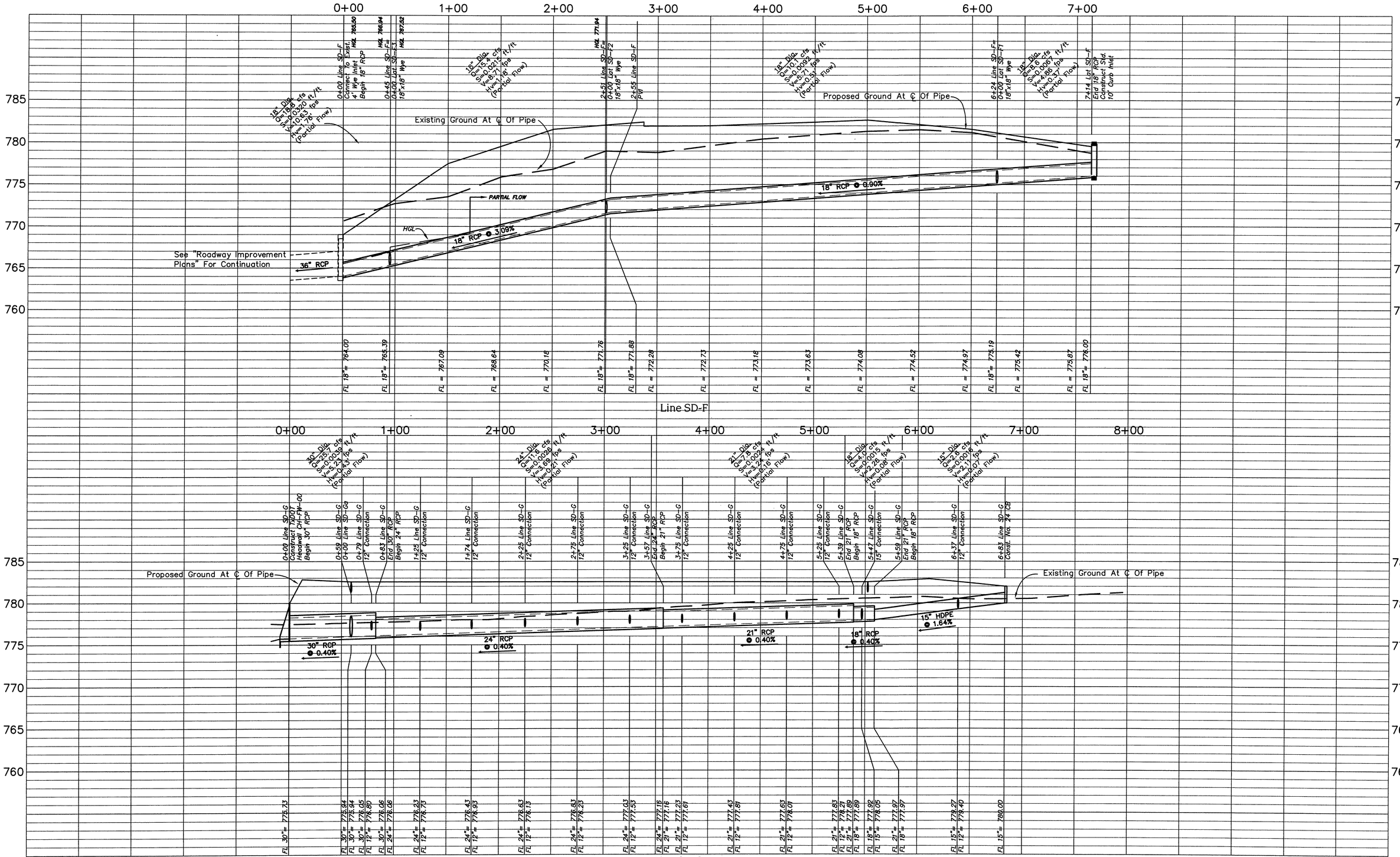

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STORM SEWER PROFILES

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RLK Engineering	RLK	12/18/06	RLK: 06076	

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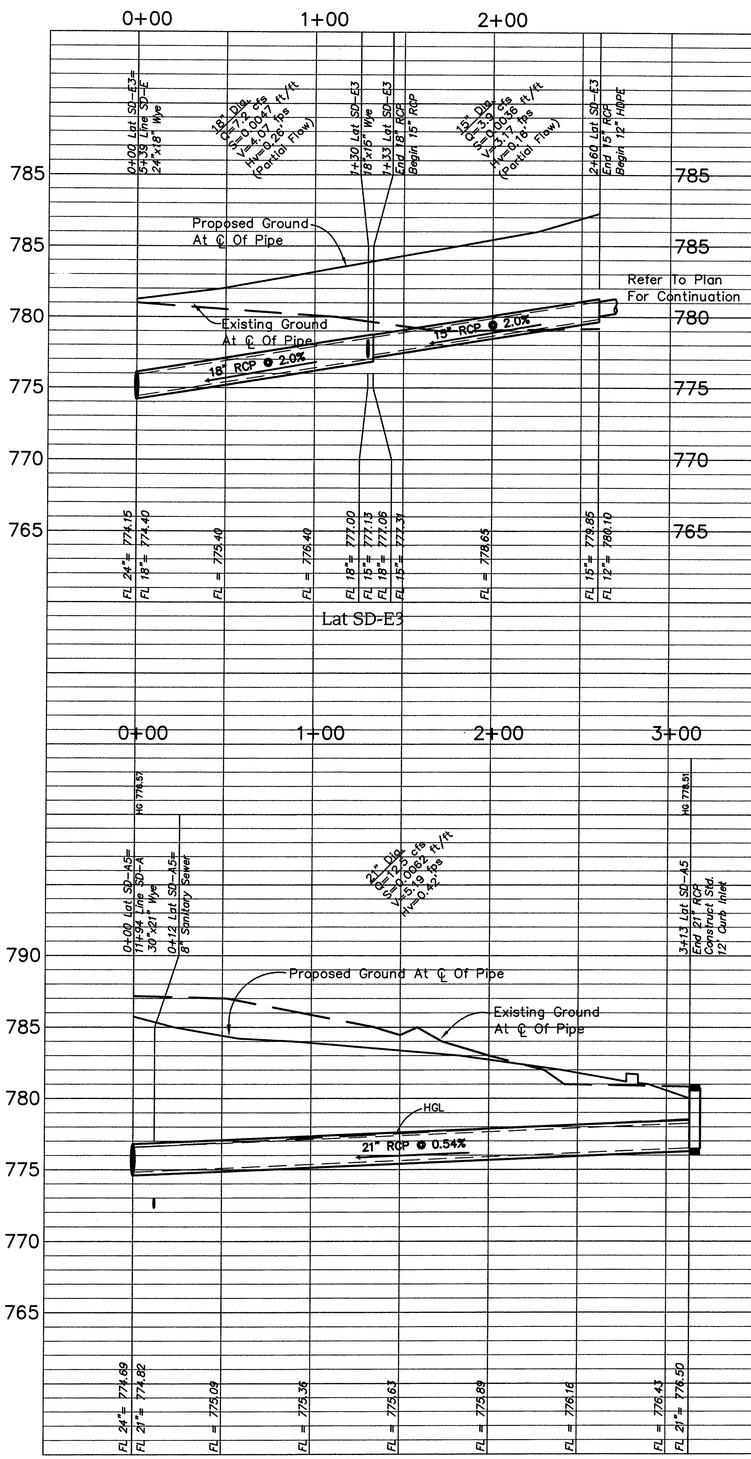

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STORM SEWER PROFILES

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RLK Engineering	RLK	06076 STM-PROF5.dwg	1" = 40'	C 21 OF 32
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RLK Engineering	RLK	12/18/06	RLK: 06076	

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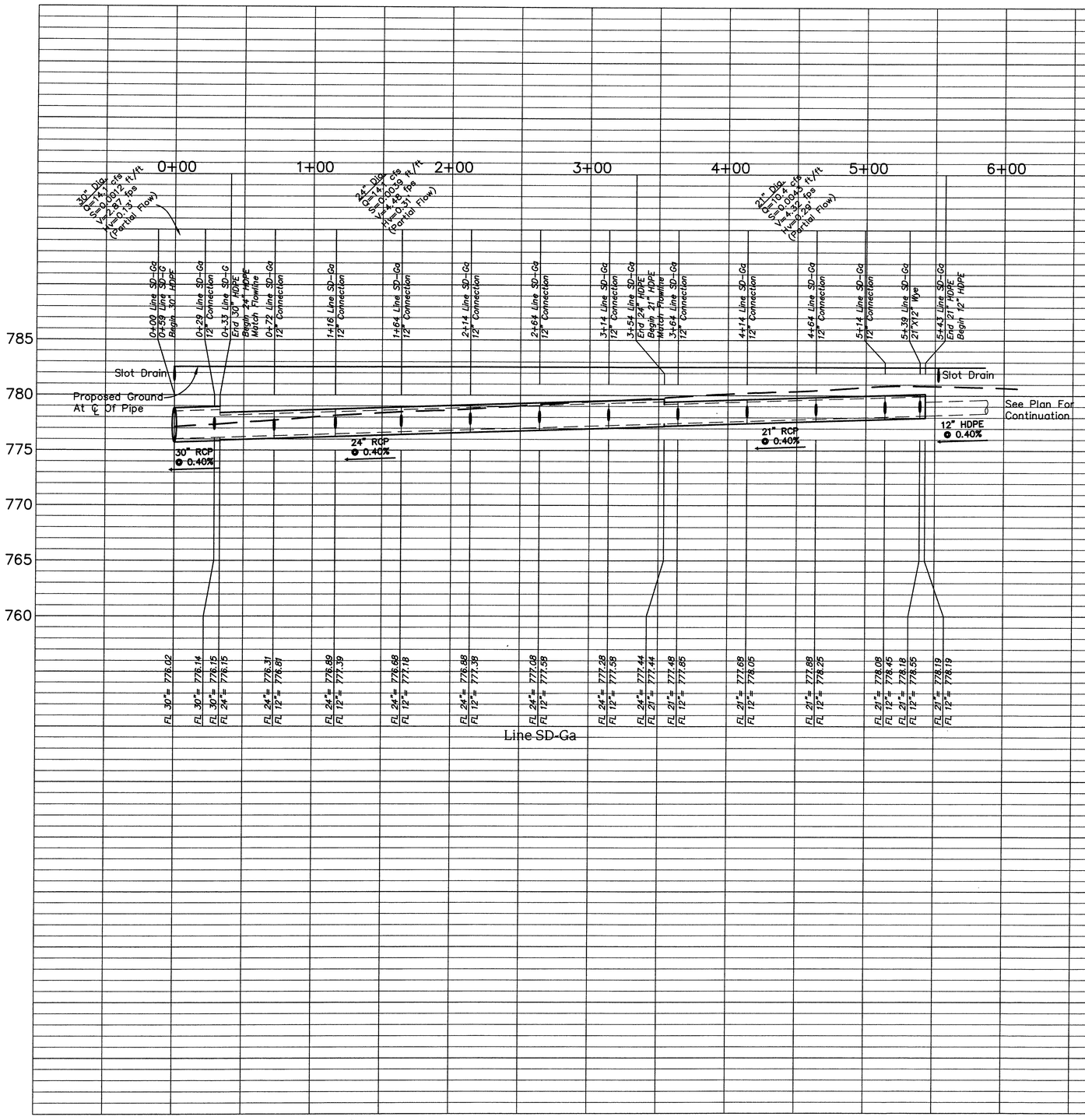

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PROFESSIONAL ENGINEER
12/18/06

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STORM SEWER PROFILES

CELINA HIGH SCHOOL

S.H. 289 and C.R. 105
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RLK Engineering	RLK	06076 STM-PROF6.dwg	1" = 40'	C 22 OF 32
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RLK Engineering	RLK	12/18/06	RLK: 06076	

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C.R. NO. 105

Connect To Existing 12" Water By Others Contractor To Verify Location Of Existing Water Line Before Starting Construction

Prop. 12" Water (By Others)

S 87°08'20" E 337.73'

Ex. 2 1/2" Water

T TELE BOX

7.5'

Install:
1-12"x6" Tee
1-12" Valve
1-6" Valve
1-Fire Hydrant

Abandon Ex. 2 1/2" Gunter WSC Line In Place

Install:
1-12"x6" Tee
1-12" Valve
1-6" Valve
1-Fire Hydrant

Install 12" Water

15' Water Easement

Install:
1-12"x8" Tee
1-8" Valve
1-8" 22.5° Bend

15' Water Easement

Install 8" Water

Abandon Ex. 2 1/2" Gunter WSC Line In Place

Ex. 2 1/2" Water

Install:
1-2" Service
With Meter (Irrigation)
And Backflow Preventor

MATCH LINE SEE SHEET C23

Install:
1-8"x6" Tee
1-8" Valve
1-8" Valve
1-Fire Hydrant

20'

Install:
2-8" 90° Bends

FUTURE EXPANSION

Install 8" Water

15' Water Easement

FUTURE EXPANSION

Ref. MEP Plans For Exact Size, Location, And Elevations Of Utilities At Building.

Fire Sprinkler Line Shall Be Sized And Installed By State Licensed Fire Sprinkler Contractor.

2-Way CO's FL=776.25

CO FL=000.00

6" Service On 1% Slope (Min.)

Finished Floor 788.00

Install:
1-8"x6" Tee
1-8" 22.5° Bend
1-8" Valve
1-6" Valve
1-Fire Hydrant

Install 8" Water

Lower Existing 8" Water Line As Required to Maintain a Min. 42" Cover Install 45° Vertical Bends for Lowering Waterline

MATCH LINE SEE SHEET C25

Refer To Sheet C31 for General Notes.

0 40 80

MON

TOP FL=806.00'

20.71' RCP HEADWALL

N 07°30'07" E 145.71'

Ex. 8" Water

18" RCP

FL756.86

18" RCP

PC750.96'

VARIABLE WIDTH ROW

S.H. NO. 289

N 00°22'07" E 403.11'

100.13'

1/4" RF

TELE BOX

!!! CAUTION !!!
Existing Utility Lines In Area
Contractor To Verify Existing Utility Locations
Contact Appropriate Utility Companies
48 Hrs. Prior To Any Construction

!!! CAUTION !!!
Existing Private Utility Lines On Site
Contractor To Verify Existing Utility Locations
Field Verify Both Location & Depth
Visibly Mark All Existing Utilities
Prior To Any Construction
These Markings Are To Be Maintained
And Remain During The Entire
Construction Process

MISC. INFORMATION

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FEMA BENCHMARK
SQUARE CUT ON NORTH END OF WEST HEADWALL OVER CREEK WEST SIDE OF S.H. NO. 289 – 150' + SOUTH OF F.M. NO. 455
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STATE OF TEXAS
RONNY KLINGER
76831
REGISTERED PROFESSIONAL ENGINEER
P.E.
12/12/07

BIDDING & REVIEW RELEASE
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WATER & SEWER PLAN

CELINA HIGH SCHOOL

S.H. 289 and C.R. 105
CELINA, TEXAS

DESIGNED BY: RLK Engineering	TECH REVIEW: RLK	DRAWING FILE: 06076 ws1	DRAWING SCALE: 1" = 40'	SHEET: C 23 OF 32
DRAWN BY: RLK Engineering	PEER REVIEW: RLK	DRAWING DATE: 12/18/06	PROJECT NUMBER: RLK: 06076	

P-200702-01

MATCH LINE

Install: 1–12" Plug

Install 12" Water

Install: 1–8" 45° Bend

15' Water Easement

Install 8" Water

Install 12" Water

Install: 1–8" 22.5° Bend

Install: 1–12"x12" Cross 2–12" Valves 2–12"x8" Reducers 2–8" Valves

15' Water Easement

20'

2" Force Main

Abandon Ex. 2 1/2" Gunter WSC Line In Place

Install: 1–8" 45° Bend

Install: 1–8"x6" Tee 1–8" Valve 1–6" Valve 1–Fire Hydrant

Install 8" Water

Install: 1–8"x4" Tee 1–8" Valve 1–4" Valve 1–2" Meter (Domestic) With Backflow Preventor

Remove Exist. Water Meter

Connect to Ex.8" Gunter WSC Line Install: 1–8" 11.25° Bend

Install: 1–8" 22.5° Bend

Install 8" Water

2" Domestic

4" Fire

CO

8" Service On 1% Slope (Min.)

2–Way CO's

SHOP

Ref. MEP Plans For Exact Size, Location, And Elevations Of Utilities At Building.

Fire Sprinkler Line Shall Be Sized And Installed By State Licensed Fire Sprinkler Contractor.

MATCH LINE SEE SHEET C22

8" SS

Line D

2+72 Line D Construct Std. 4' Dia. Manhole

Remove Exist. Water Meter

Install: 1–8" 11.25° Bend

Install: 1–8" 22.5° Bend 1–8"x6" Tee 1–8" Valve 1–6" Valve 1–Fire Hydrant

Install: 8" Water (Purple in color – This Line Only)

Install: 1–8"x8" Tee 1–8" Valve

Install: 1–8" 11.25° Bend

Abandon Ex. 2 1/2" Gunter WSC Line In Place

Line C

Install: 1–8"x8" Tee 2–8" Valves

Install: 1–8"x6" Tee 1–8" Valve 1–Fire Hydrant 1–8" Valve 1–8" Plug

FUTURE FIELD HOUSE

MATCH LINE SEE SHEET C24

EXISTING WELL STATION #3

Construct Duplex Grinder Station Submersible Grinder Pumps–Barns Model # SGVF2062L Or Approved Equal With Duplex Alternating Control Panel, Rhombus Model 123 Or Approved Equal, 5' Diameter FRP (Fiberglass Reinf. Plastic) Basin By Steele Plastics Inc. Or Approved Equal Including Duplex Rail System And Lifting Device.

10' Min.

2" Dom. ø

6" Service On 1% Slope (Min.)

10'

Lift Station

2" Domestic

10' Min.

Install: 1–2" Domestic Water Service w/Meter

Ex. 8" Water

2" Force Main

Install: 1–Fire Hydrant

Install: 1–8" 45° Bend

MATCH LINE

FIELD

0 40 80

S 01°05'35" W 1840.62'

!! CAUTION !!
Existing Private Utility Lines On Site
Contractor To Verify Existing Utility Locations
Field Verify Both Location & Depth
Visibly Mark All Existing Utilities
Prior To Any Construction
These Markings Are To Be Maintained
And Remain During The Entire
Construction Process

!!! CAUTION !!!
Existing Utility Lines In Area
Contractor To Verify Existing Utility Locations
Contact Appropriate Utility Companies
48 Hrs. Prior To Any Construction

Refer To Sheet C31 for General Notes.

MISC. INFORMATION	REVISION	DATE	DESCRIPTION
BENCH MARK FEMA BENCHMARK SQUARE CUT ON NORTH END OF WEST HEADWALL OVER CREEK WEST SIDE OF S.H. NO. 289 – 150' + SOUTH OF F.M. NO. 455 ELEV. 702.97			

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STATE OF TEXAS
RONNY KLINGBEIL
76831
PROFESSIONAL ENGINEER
12/12/07

WATER & SEWER PLAN

CELINA HIGH SCHOOL

S.H. 289 and C.R. 105
CELINA, TEXAS

DESIGNED BY:	TECH REVIEW:	DRAWING FILE:	DRAWING SCALE:	SHEET:
RLK Engineering	RLK	06076 WS2.dwg	1" = 40'	C 24 OF 32
DRAWN BY:	PEER REVIEW:	DRAWING DATE:	PROJECT NUMBER:	
RLK Engineering	RLK	12/18/06	RLK 06076	

P-200702-01

MATCH LINE SEE SHEET C23

MATCH LINE SEE SHEET C25

Line C

8" SS

Install:
1-8" 22.5° Bend

18+82 Line A
=0+00 Line C
=0+00 Line D
Construct Std. 4'
Dia. Manhole

Install:
1-8" 22.5° Bend

Abandon Ex. 2 1/2"
Gunter WSC
Main In Place

4+57 Line C
Construct Std. 4'
Dia. Manhole

15' Water Easement

6" Service On
1% Slope (Min.)

Domestic
Fire

2-Way GS
FL=777.2

Finished Floor
515.00

Install:
1-8"x4" Tee
1-8" Valve
1-4" Valve
1-4" Meter & Vault (Domestic)
With Backflow Preventor
1-2" Service
With Meter (Irrigation)
With Backflow Preventor

Install:
1-8"x6" Tee
1-8" Valve
1-6" Valve
1-Fire Hydrant

Ref. MEP Plans For
Exact Size, Location,
And Elevations Of
Utilities At Building.

Fire Sprinkler Line Shall
Be Sized And Installed
By State Licensed Fire
Sprinkler Contractor.

Line A

Connect to Ex.8"
Gunter WSC Line
Existing 8" To
Remain In Service Until
Prop. Waterline Is
Installed

Install:
1-8"x6" Tee
1-6" Valve
1-Fire Hydrant
1-8"x8" Tee
3-8" Valves
1-8" 11.25° Bend

Install:
1-2" Service
With Meter (Irrigation)
With Backflow Preventor

15' Water Easement

Install:
1-8"x6" Tee
1-6" Valve
1-Fire Hydrant

Install:
1-8"x2" Tee
1-8" Valve
1-2" Valve
1-2" Plug

Install:
1-8" 90° Bend

Install 8" Water

Future Building
Addition

8" SS

Line B

Line A

Install:
1-8" 90° Bend

14+43 Line A
=0+00 Line B
Construct Std. 4'
Dia. Manhole

2+56 Line B
Construct Std. 4'
Dia. Manhole

15' Water Easement

Install 8" Water

Ex. 8" Water

Install:
8" Water
(Purple in Color-
This Line Only)

FUTURE SOFTBALL FIELD

FUTURE FOOTBALL FIELD

0 40 80

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WATER & SEWER PLAN

CELINA HIGH SCHOOL

S.H. 289 and C.R. 105
CELINA, TEXAS

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RLK Engineering	RLK	06076 WS3.dwg	1" = 40'	C 25 OF 32
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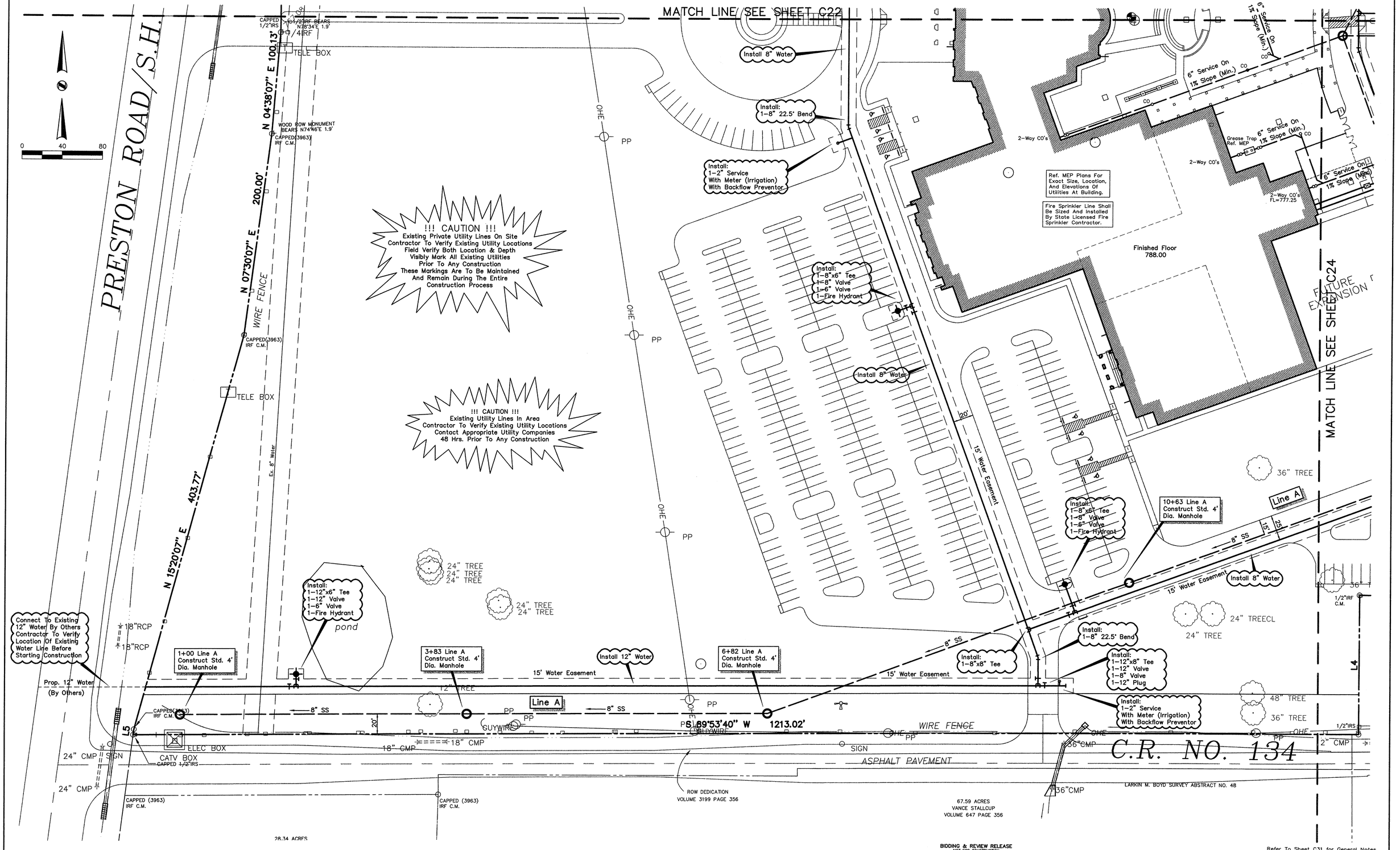

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WATER & SEWER PLAN
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S.H. 289 and C.R. 105
CELINA, TEXAS

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RLK Engineering	RLK	06076 WS4.dwg	1" = 40'	C 26 OF 32
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RLK Engineering	RLK	12/18/06	RLK: 06076	

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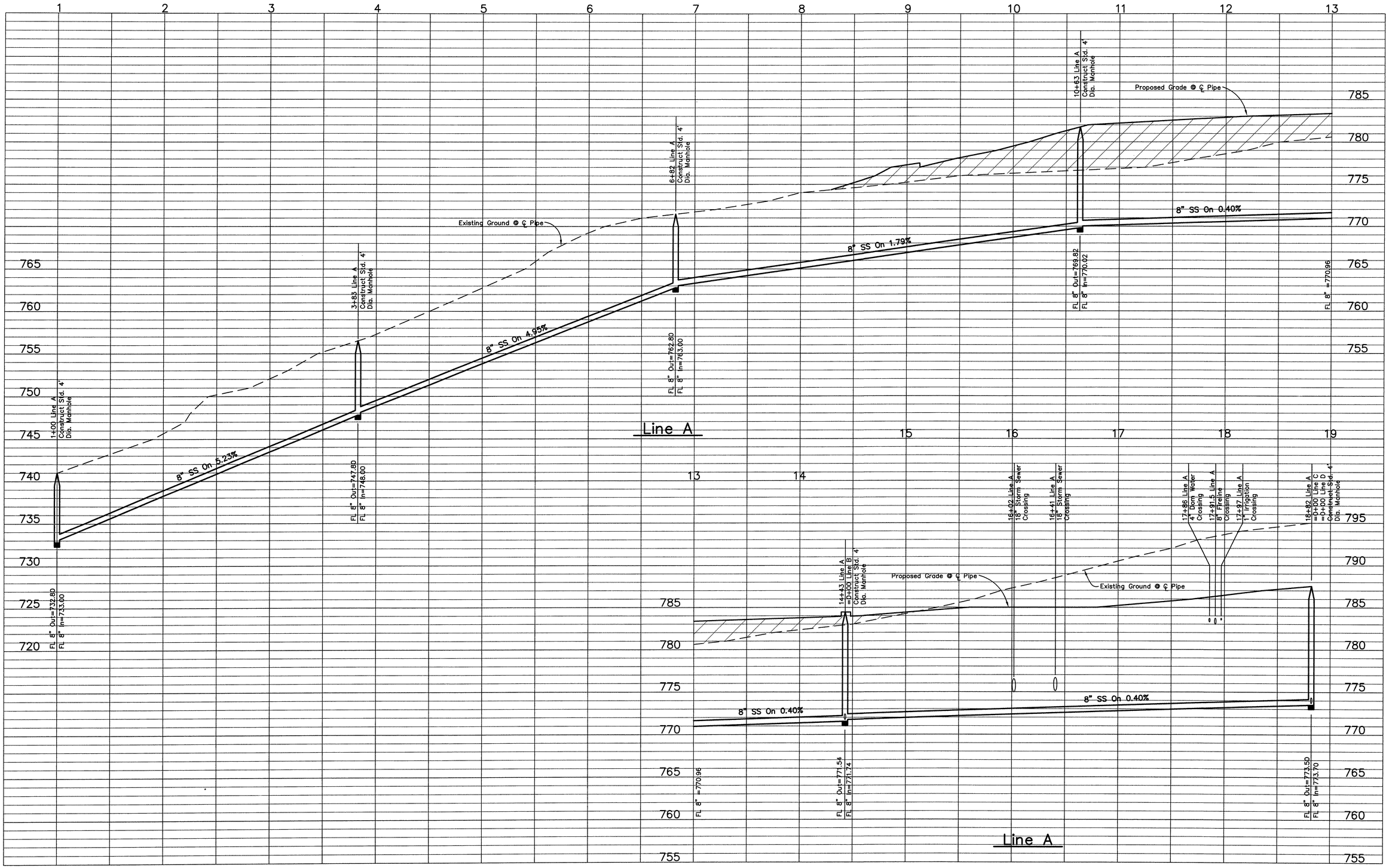

Refer To Sheet C31 for General Notes.

MISC. INFORMATION

BENCH MARK

FEMA BENCHMARK
SQUARE CUT ON NORTH END OF WEST HEADWALL OVER CREEK WEST SIDE OF S.H. NO. 289 – 150' + SOUTH OF F.M. NO. 455
ELEV. 702.97

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STATE OF TEXAS
RONNY KLINGBEIL
76831
REGISTERED PROFESSIONAL ENGINEER

SANITARY SEWER PROFILES

CELINA HIGH SCHOOL

S.H. 289 and C.R. 105
CELINA, TEXAS

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RLK Engineering	RLK	06076 SSPROF1.dwg	1" = 40'	C 27 OF 32
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RLK Engineering	RLK	12/18/06	RLK: 06076	

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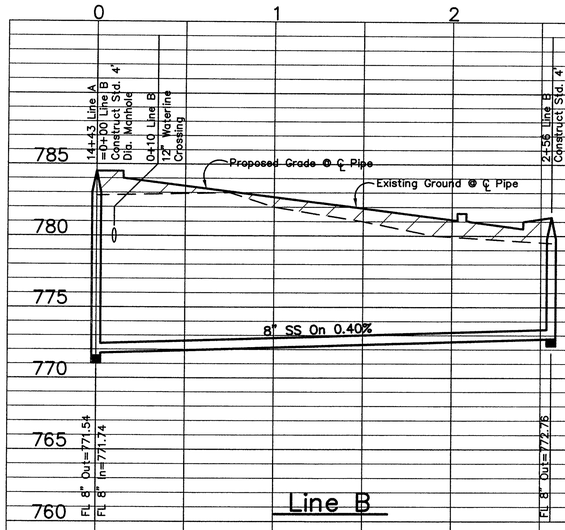

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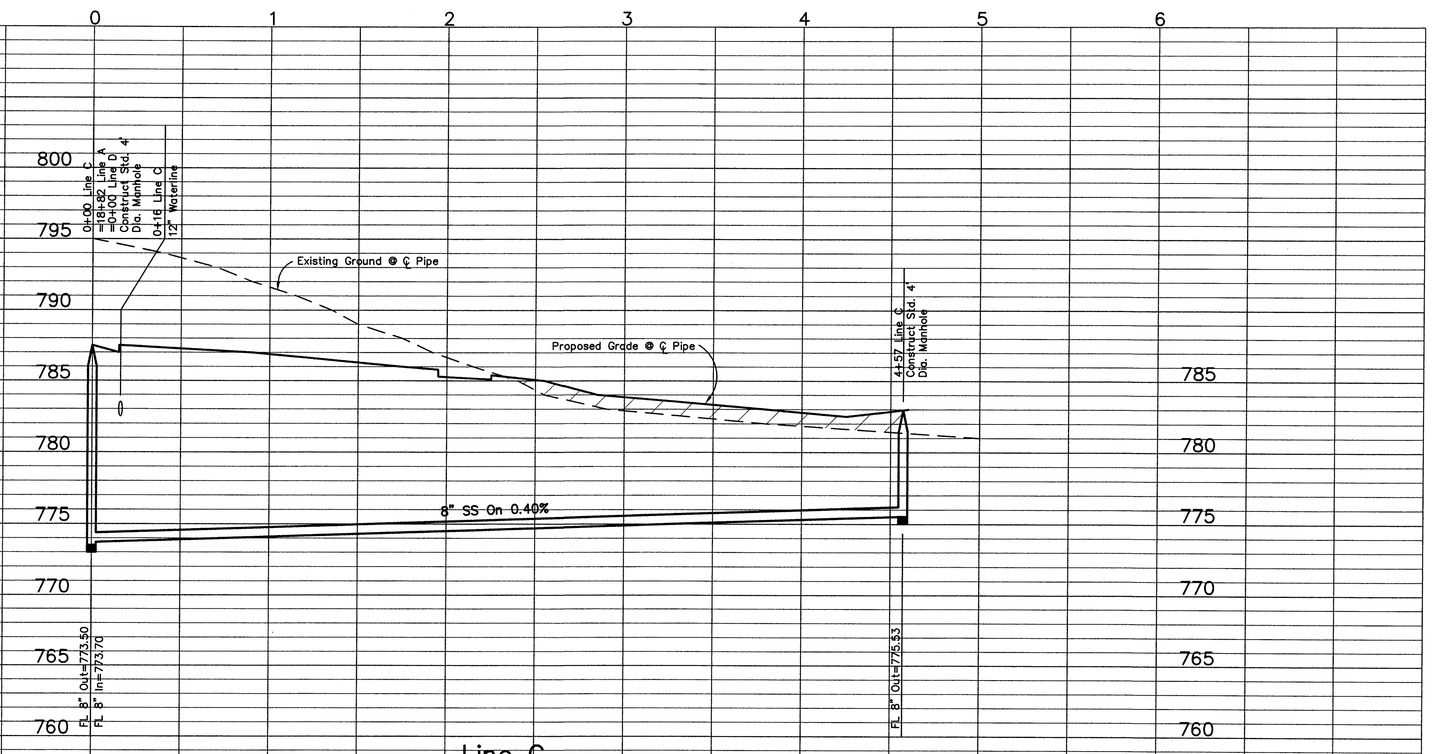

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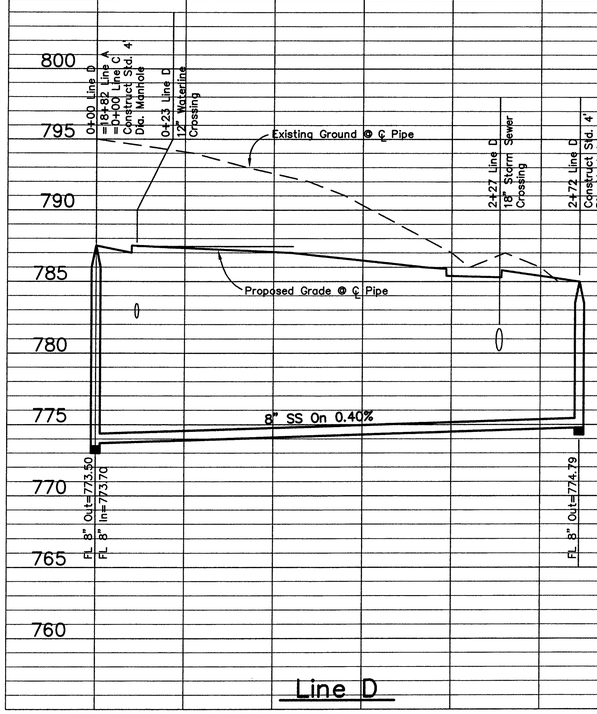

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Refer To Sheet C31 for General Notes.

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12/18/06

SANITARY SEWER PROFILES

CELINA HIGH SCHOOL

S.H. 289 and C.R. 105
CELINA, TEXAS

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DRAWN BY: RLK Engineering	PEER REVIEW: RLK	DRAWING DATE: 12/18/06	PROJECT NUMBER: RLK: 06076	

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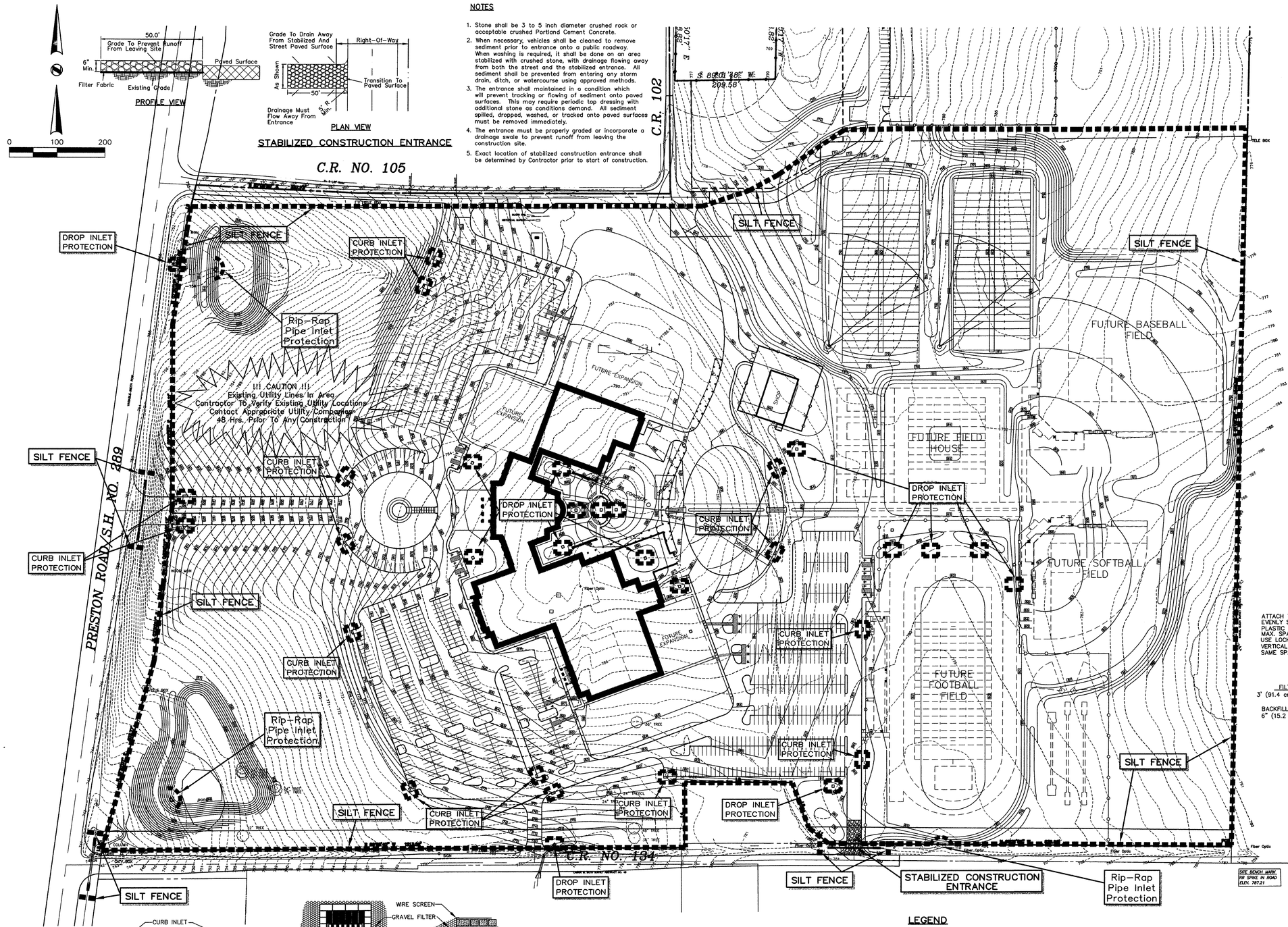


STABILIZED CONSTRUCTION ENTRANCE

NOTES

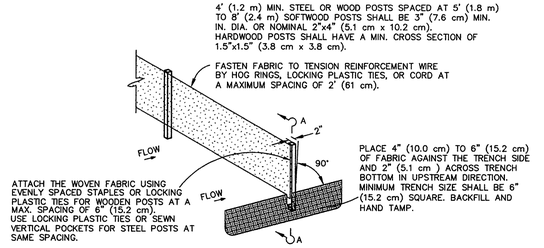
1. Stone shall be 3 to 5 inch diameter crushed rock or acceptable crushed Portland Cement Concrete.
2. When necessary, vehicles shall be cleaned to remove sediment prior to entrance onto a public roadway. When washing is required, it shall be done on an area stabilized with crushed stone, with drainage flowing away from both the street and the stabilized entrance. All sediment shall be prevented from entering any storm drain, ditch, or watercourse using approved methods.
3. The entrance shall maintained in a condition which will prevent tracking or flowing of sediment onto paved surfaces. This may require periodic top dressing with additional stone as conditions demand. All sediment spilled, dropped, washed, or tracked onto paved surfaces must be removed immediately.
4. The entrance must be properly graded or incorporate a drainage swale to prevent runoff from leaving the construction site.
5. Exact location of stabilized construction entrance shall be determined by Contractor prior to start of construction.

EROSION CONTROL NOTES

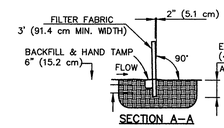
1. Erosion control devices shown on this plan shall be installed prior to the start of land disturbing activities on the project.
2. All erosion control devices are to be installed in accordance with the approved plans and specifications for this project. Changes are to be approved before construction by the design Engineer and the City of Celina.
3. If the Erosion Control Plan as approved cannot control erosion and off-site sedimentation from the project the Erosion Control Plan will be required to be revised and/or additional erosion control devices will be required on site.
4. Off-site soil borrow and spoil areas are considered as part of the project site, and must also comply with the erosion control requirements for this project. This includes the installation of BMPs to control offsite sedimentation and the establishment of permanent ground cover on disturbed areas prior to final approval of the project.
5. Inspections shall be made weekly and after rain storm events to insure that the devices are functioning properly. When sediment or mud has clogged the void spaces between stones or mud is being tracked onto a public roadway the aggregate pad must be washed down or replaced. Runoff from the wash down operation hall not be allowed to drain directly off site without first lowing through another BMP to control off site sedimentation. Periodic re-grading or the addition of new stone may be required to maintain the efficiency of the installation.
6. Contractor shall be responsible for submittal of N.O.I., N.O.T. and any additional information required by the E.P.A. Contractor shall comply with all E.P.A. storm water pollution prevention requirements.

SILT FENCE

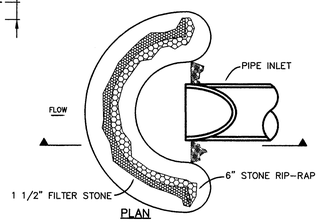
1. STEEL POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MINIMUM OF 1 FOOT.
2. THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWNSLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW. WHERE FENCE CANNOT BE TRENCHED (e.g. PAVEMENT), WEIGHT FABRIC FLAP WITH WASHED GRAVEL ON UPHILL SIDE TO PREVENT FLOW UNDER FENCE.
3. THE TRENCH MUST BE A MINIMUM OF 6 INCHES DEEP AND 6 INCHES WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL.
4. SILT FENCE SHOULD BE SECURELY FASTENED TO EACH STEEL SUPPORT POST OR TO WOVEN WIRE, WHICH IS IN TURN ATTACHED TO THE STEEL FENCE POST. THERE SHALL BE A 6 INCH DOUBLE OVERLAP, SECURELY FASTENED WHERE ENDS OF FABRIC MEET.
5. INSPECTION SHALL BE MADE WEEKLY OR AFTER EACH RAINFALL. REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
6. SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
7. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 6 INCHES. THE SILT SHALL BE DISPOSED OF IN AN APPROVED SITE AND IN SUCH A MANNER AS TO NOT CONTRIBUTE TO ADDITIONAL SILTATION.



SILT FENCE
N.T.S.



SECTION A-A



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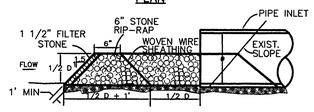
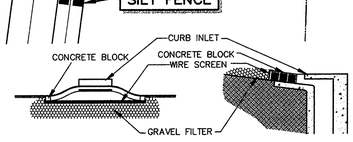
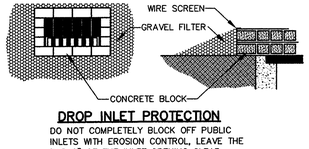


SECTION

RIP-RAP PIPE INLET PROTECTION



CURB INLET PROTECTION



DROP INLET PROTECTION

DO NOT COMPLETELY BLOCK OFF PUBLIC INLETS WITH EROSION CONTROL, LEAVE THE TOP 2" OF THE INLET OPENING CLEAR.

BLOCK AND GRAVEL PROTECTION

Concrete blocks are to be placed on their sides in a single row around the perimeter of the inlet, with ends abutting. Opening in the blocks should face outward, not upward. Wire mesh shall then be placed over the outside face of the blocks covering the holes. Filter stone shall then be piled against the wire mesh to the top of the blocks with the base of the stone being a minimum of 18 inches from the blocks. Periodically, when the stone filter becomes clogged, the stone must be removed and cleaned in a proper manner or replaced with new stone and piled back against the wire mesh.

LEGEND

- Erosion Control Device
- 97 — Proposed Contour
- ------697 — Existing Contour
- —— Direction Of Flow

NOTE:
Owner and Contractor to be responsible for submitting N.O.I. (Notice Of Intent) prior to beginning any construction. Owner and Contractor also to submit N.O.T. (Notice Of Termination).

Refer To Sheet C31 for General Notes.

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STATE OF TEXAS
RONNY KLINGBEIL
76837
LICENSED PROFESSIONAL ENGINEER
7/12/07

EROSION CONTROL PLAN

CELINA HIGH SCHOOL
S.H. 289 and C.R. 105
CELINA, TEXAS

DESIGNED BY:	TECH REVIEW:	DRAWING FILE:	DRAWING SCALE:	SHEET:
RLK Engineering	RLK	06076 ERO.dwg	1" = 40'	C 29 OF 32
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RLK Engineering	RLK	12/18/06	RLK: 06076	

P-200702-01

SANDBLASTING WASTE MANAGEMENT

DESCRIPTION

The objective of the management program is to minimize the potential of storm water quality degradation from sandblasting activities at construction sites. The key issues in this program are prudent handling and storage of sandblast media, dust suppression, and proper collection and disposal of spent media. It is not the intent of this program to outline all of the worker safety issues pertinent to this practice. Safety issues should be addressed by construction safety programs as well as local, state, and and federal regulation. utilized at sites in which Sandblasting waste is present.

INSTALLATION/APPLICATION CRITERIA

Since the media consists of fine abrasive granules, it can be easily transported by running water. Sandblasting activities typically create a significant dust problem which must be contained and collected to prevent off–site migration problem which must be contained and collected to to prevent off–site migration or fines.

Operational Procedures

Use only inert, non–degradable sandblast media.
Use appropriate equipment for the job, do not over–blast.
Wherever possible, blast in a downward direction.
Install a wind sock or other wind direction instrument.
Cease blasting activities in high winds or if wind direction could transport grit to drainage facilities.
Install dust shielding around sandblasting areas.
Collect and dispose of all spent sandblast grit, use dust containment fabrics and dust collection hoppers and barrels.
Non–hazardous sandblast grit may be disposed in permitted construction debris landfills or permitted sanitary landfills.
If sandblast media cannot be fully contained, construct sediment traps downstream from blasting area where appropriate.
Use sand fencing where appropriate in areas where blast media cannot be fully contained.
If necessary, install misting equipment to remove sandblast grit from the air – prevent runoff from misting operations from entering drainage systems.
Use vacuum grit collection systems where possible.
Keep records of sandblasting materials, procedures, and weather conditions on a daily basis.
Take all reasonable precautions to ensure that sandblasting grit is contained and kept away from drainage structures.

Educational Issues

Educate all on–site employees of potential dangers to humans and the environment from sandblast grit.
Instruct all on–site employees of the potential hazardous nature of sandblast grit and possible symptoms of overexposure to sandblast grit.
Instruct operators of sandblasting equipment on safety procedures and personal protection equipment.
Instruct operators on proper procedures regarding storage, handling, and containment of sandblast grit.
Instruct operators to recognize unfavorable weather conditions regarding sandblasting activities.
Instruct operators and supervisors on current local, state, and federal federal regulations regarding fugitive dust and hazardous waste from sandblast grit.
Have weekly meetings with operators to discuss and reinforce proper operational procedures.
Establish a continuing education program to indoctrinate new employees.

Material Handling Recommendations

Sandblast media should always be stored under cover away from drainage structures.
Ensure that stored media or grit is not subject to transport by wind.
Ensure that all sandblasting equipment as well as storage containers comply with local, state, and federal regulations.
Refer to Hazardous Waste BMP fact sheet if sandblast grit is known or or suspected to contain hazardous components.
Capture and treat runoff which comes into contact with sandblasting material or waste.
Foreman and/or construction supervisor should monitor all sandblasting activities and safety procedures.

Quality Assurance

Educate, and if necessary, discipline workers who violate procedures.
Take all reasonable precautions to ensure that sandblast grit is not transported off–site or into drainage facilities.

Requirements

Education and awareness program for all employees regarding control of sandblasting and potential dangers to humans and the environment.
Operator and supervisor education program for those directly involved in sandblasting activities – instructions on material handling, proper equipment operation, personal protective equipment, fugitive dust control, record keeping and reporting, fugitive dust control, record keeping and reporting.
Proper sandblast equipment for the job.
Site–specific fugitive dust control and containment equipment.
Site–specific fugitive dust control procedure.
Compliance by supervisors and workers.

Costs

Minimal cost for training and monitoring.
Potential for significant cost for containment procedures on large jobs.
Potential for significant costs associated with cleanup, correction and remediation if containment occurs.

LIMITATIONS

Site specific solutions to sandblasting problems may be required.
Sandblasting operations on structures known to contain hazardous materials require special procedures not specifically outlined above including professional hazardous waste specialists.
Where hazardous materials are known or suspected, a site assessment and remediation plan may be necessary.
This management program is one part of a comprehensive construction site waste management program.

HAZARDOUS WASTE MANAGEMENT

DESCRIPTION

The hazardous waste management BMP addresses the problem of storm water Polluted with hazardous waste through spills or other forms of contact. The Objective of the Management Program is to minimize the potential of Storm water contamination from common construction site hazardous wastes Through appropriate recognition, handling, storage, and disposal practices.

It is not the intent of this Management Program to supersede or replace normal site assessment and remediation procedures. Significant spills and/or contamination warrant immediate response by trained professionals. Suspected job–site contamination should be immediately reported to regulatory Authorities and protective actions taken. The General Permit requires reporting Of significant spills to the National Response Center (NRC) at (800)424–8802.

PRIMARY USE

These management practices along with applicable OSHA and EPA guidelines Should be incorporated at all construction sites which use or generate Hazardous wastes. Many wastes such as fuel, oil, grease, fertilizer, and pesticide Are present at most construction sites.

INSTALLATION, APPLICATION AND DISPOSAL CRITERIA

The hazardous waste management techniques presented here are based on Proper recognition, handling, and disposal practices by construction workers And supervisors. Key elements of the management program are education, Proper disposal practices, as well as provisions for safe storage and disposal. Following are lists describing the targeted materials and recommended procedures:

Targeted Hazardous Waste Materials

Paints
Solvents
Stains
Wood preservatives
Cutting oils
Greases
Roofing tar
Pesticides
Fuel and lube oils
Lead based paints (Demolition)

Storage Procedures

Wherever possible, minimize use of hazardous materials.
Minimize generation of hazardous wastes on the job–site.
Segregate potentially hazardous waste from non–hazardous Constuction site debris.
Designate a foreman or supervisor to oversee hazardous materials Handling procedures.
Keep liquid or semi–liquid hazardous waste in appropriate containers (closed drums or similar) and under cover.
Other enclosed trash container that limits contact with rain and.
Store waste materials away from drainage ditches, swales, and catch basins.
Use containment berms in fueling and maintenance areas and where the potential for spills is high.
Ensure that adequate hazardous waste storage volume is available.
Ensure that hazardous waste collection containers are conveniently located.
Do not allow potentially hazardous waste materials to accumulate on the ground.
Enforce Hazardous waste handling and storage procedures.
Clearly mark on all hazardous waste containers which materials are acceptable for the container.

Disposal Procedures

Regularly schedule hazardous waste removal to minimize on–site storage.
Use only reputable, licensed hazardous waste haulers.

Education

Instruct workers in identification of hazardous waste
Educate workers of potential dangers to humans and the environment from hazardous wastes
Instruct workers on safety procedures for common construction site hazardous wastes
Educate all workers on hazardous waste storage and disposal procedures
Have regular meetings to discuss and reinforce identification, handling and disposal procedures (incorporate in regular safety seminars).
Establish a continuing education program to indoctrinate new employees

Quality Assurance

Foreman and/or construction supervisor shall monitor on–site hazardous waste storage and disposal procedures.
Educate, and if necessary, discipline workers who violate procedures.
Ensure that the hazardous waste disposal contractor is reputable and licensed.

Requirements

Job–site waste handling and disposal education and awareness program
Commitment by management to implement hazardous waste management practices.
Compliance by workers.
Sufficient and appropriate hazardous waste storage containers.
Timely removal of stored hazardous waste materials.

Costs

Possible modest cost impact for additional hazardous storage containers.
Small cost impact for training and monitoring
Potential cost impact for hazardous waste collection and disposal by licensed hauler – actual cost depends
on type of material and volume.

LIMITATIONS

This practice is not intended to address site–assessments and pre–existing contamination.
Major contamination, large spills and other serious hazardous waste incidents require immediate response from specialists.
Demolition activities and potential pre–existing materials, such as asbestos, are not addressed by this program. Site specific information on plans is necessary.
Contaminated soils are not addressed.
One part of a comprehensive construction site waste management program.

SOLID WASTE MANAGEMENT

DESCRIPTION

Large volumes of solid waste are often generated at construction sites including: packaging, pallets, wood waste, concrete waste, soil, electrical wiring, cuttings, and a variety of other materials. The solid waste management practice lists techniques to minimize the potential of storm water contamination from solid waste through appropriate storage and disposal practices.

PRIMARY USE

These practices should be a part of all construction practices. By limiting the trash and debris on site, storm water quality is improved along with reduced clean up requirements at the completion of the project.

APPLICATIONS

The solid waste management practice for construction sites is based on proper storage and disposal practices by construction workers and supervisors. Key elements of the program are education and modification of improper disposal habits. Cooperation and vigilance is required on the part of supervisors and workers to ensure that the recommendations and procedures are followed. Following are lists describing the targeted materials and recommended procedures:

Targeted Solid Waste Materials

Paper and cardboard containers
Plastic packaging
Styrofoam packing and forms
Insulation materials (non–hazardous)
Wood pallets
Wood cuttings
Pipe and electrical cuttings
Concrete, brick, and mortar waste
Shingle cuttings and waste
Roofing tar
Steel (cuttings, nails, rust residue)
Gypsum board cuttings and waste
Sheathing cuttings and waste
Miscellaneous cutting and waste
Food waste
Demolition waste

Storage Procedures

Wherever possible, minimize production of solid waste materials.
Designate a foreman or supervisor to oversee and enforce proper solid waste procedures.
Instruct construction workers in proper solid waste procedures.
Segregate potentially hazardous waste from non–hazardous construction site debris.
Keep solid waste materials under cover in either a closed dumpster or other enclosed trash container that limits contact with rain and runoff.
Store waste materials away from drainage ditches, swales and catch basins.
Do not allow trash containers to overflow.
Do not allow waste materials to accumulate on the ground.
Prohibit littering by workers and visitors.
Police site daily for litter and debris.
Enforce solid waste handling and storage procedures.

Disposal Procedures

If feasible, segregate recyclable wastes from non–recyclable waste materials and dispose of properly.
General construction debris may be hauled to a licensed construction debris landfill (typically less expensive than a sanitary landfill).
Use waste facilities approved by local jurisdiction.
Runoff which comes into contact with unprotected waste shall be directed into structural treatment such as silt fence to remove debris.

Education

Educate all workers on solid waste storage and disposal procedures.
Instruct workers in identification of solid waste and hazardous waste.
Have regular meetings to discuss and reinforce disposal procedures (incorporate in regular safety seminars).
Clearly mark on all solid waste containers which materials are acceptable.

Quality Control

Foreman and/or construction supervisor shall monitor on–site solid waste storage and disposal procedures.
Discipline workers who repeatedly violate procedures.

Requirements

Jobsite waste handling and disposal education and awareness program
Commitment by management to implement and enforce Solid Waste Management Program.
Compliance by workers.
Sufficient and appropriate waste storage containers.
Timely removal of stored solid waste materials.
Possible modest cost impact for additional waste storage containers.
Small cost impact for training and monitoring
Minimal overall cost impact.

LIMITATIONS

Only addresses non–hazardous solid waste.
One part of a comprehensive construction site management program.

CONCRETE WASTE MANAGEMENT

DESCRIPTION

Concrete waste at construction sites comes in two forms; 1) excess fresh concrete mix including truck and equipment washing, and 2) concrete dust and concrete debris resulting from demolition. Both forms have the potential to impact water quality through storm water runoff contact with the waste.

PRIMARY USE

Concrete waste is present at most construction sites. This BMP should be utilized at sites in which concrete waste is present

APPLICATIONS

A number of water quality parameters can be affected by introduction of concrete – especially fresh concrete. Concrete affects the pH of runoff, causing significant chemical changes in water bodies and harming aquatic life.
Suspended solids in the form of both cement and aggregate dust are also Generated from both fresh and demolished concrete waste:

Current Unacceptable Waste Concrete Disposal Practices

Dumping in vacant areas on the job–site
Illicit dumping off–jobsite
Dumping into ditches or drainage facilities

Recommended Disposal Practices

Avoid unacceptable dumping practices listed above.
Develop predetermined, safe concrete disposal areas
Provide a washout area with a minimum of 6 cubic feet of containment area volume for every 10 cubic yards of concrete poured.
Never dump waste concrete illicitly or without property owners knowledge and consent.
Treat runoff from storage area through the use of structural controls as required.

Education

Drivers and equipment operators should be instructed on proper disposal and equipment washing practices (see above).
Supervisors must be made aware of the potential environmental consequences of improperly handling concrete waste.

Enforcement

The construction site manager or foreman must ensure that employees and pre–mix companies follow proper procedures for concrete disposal and equipment washing.
Employees violating disposal or equipment cleaning directives must be reeducated or disciplined if necessary.

Demolition Practices

Monitor weather and wind direction to ensure concrete dust is not entering drainage structures and surface waters.
Where appropriate, construct sediment traps or other types of sediment detention devices downstream of demolition activities.

Requirements

Use predetermined disposal for waste concrete.
Prohibit dumping waste concrete anywhere but predetermined areas.
Assign predetermined truck and equipment washing areas.
Educate drivers and operators on proper disposal and equipment cleaning procedures.

Costs

Minimal cost impact for training and monitoring.
Concrete disposal cost depends on availability and distance to suitable disposal areas.
Additional costs involved in equipment washing could be significant.

LIMITATIONS

This concrete waste management program is one part of a comprehensive construction
site management program.

Refer To Sheet C31 for General Notes.

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2/12/07

EROSION CONTROL NOTES

CELINA HIGH SCHOOL

S.H. 289 and C.R. 105
CELINA, TEXAS

DESIGNED BY: RLK Engineering	TECH REVIEW: RLK	DRAWING FILE: 06076 ERO2.dwg	DRAWING SCALE: 1" = 40'
DRAWN BY: RLK Engineering	PEER REVIEW: RLK	DRAWING DATE: 12/18/06	PROJECT NUMBER: RLK: 06076

SHEET: C 30 OF 32

P-200702-01

PAVING NOTES

1. All materials and construction shall be in accordance with the City of Celina Standard Specifications and Construction Standards, and Standard Specifications for Public Works Construction prepared by North Central Texas Council of Governments (Latest Revision).
2. Existing utilities are shown schematically and are for the contractors guidance only. The location and/or elevation of existing utilities as shown on these plans are based on records of the various utility companies, and, where possible, measurements taken in the field. The contractor must call the appropriate utility company at least 48 hours prior to any excavation to request exact field location of utilities.
3. The contractor shall be responsible for protecting all existing improvements in the construction of this project. The contractor is responsible for repairs of damage to any existing improvements during construction. Repairs shall be equal to or better than condition prior to construction.
4. All paving dimensions are to the FACE of curb, where applicable, unless noted otherwise.
5. All curb radii are 3' unless noted otherwise.
6. All parking spaces are 9' x 20', unless noted otherwise.
7. Firelanes shall be striped in accordance with the City of Celina Standards.
8. All proposed concrete pavement shall be sawcut at 15' O.C.E.W. for control joints per detail, unless noted otherwise.
9. Parking stripes shall be 4" wide, spray applied white vinyl acrylic paint. Paint shall be applied in two coats to a clean, dry surface using template or striping machine.
10. All paving and earthwork operations shall conform to the recommendations in the Geotechnical Report.
11. The Paving Contractor shall not place permanent pavement until all sleeving for irrigation, electric, gas, telephone, cable TV, site lighting, etc. has been installed. It shall be the Paving Contractor's responsibility to insure that all sleeving is in place prior to placing permanent paving.
12. Refer to Architectural Plans for all dimensions of buildings and for sidwalk and flatwork layout adjacent to buildings.

WATER & SANITARY SEWER NOTES

1. All materials and construction shall be in accordance with the City of Celina Standard Specifications and Construction Standards, and Standard Specifications for Public Works Construction prepared by North Central Texas Council of Governments (Latest Revision).
2. Existing utilities are shown schematically and are for the contractors guidance only. The location and/or elevation of existing utilities as shown on these plans are based on records of the various utility companies, and, where possible, measurements taken in the field. The contractor must call the appropriate utility company at least 48 hours prior to any excavation to request exact field location of utilities.
3. The contractor shall be responsible for protecting all existing improvements in the construction of this project. The contractor is responsible for repairs of damage to any existing improvements during construction. Repairs shall be equal to or better than condition prior to construction.
4. Sewer lines shall be PVC SDR-35, except PVC SDR-26 shall be used where depth exceeds 15 feet.
5. All manhole rim grades must match finished grade in paved areas. Manholes constructed in landscape areas must have a final rim grade six inches (6") above final grade.
6. Contractor shall be responsible for maintaining trench safety requirements in accordance with the latest standards of O.S.H.A. or any other agency having jurisdiction for excavation and trenching procedures. Contractor shall provide and implement a trench safety plan complying with O.S.H.A.
7. See MEP Plans for FDC connection at Building.
8. Route Proposed Water under Storm & Sanitary Sewer Lines as necessary to maintain minimum cover per City of Celina Standards.

DRAINAGE NOTES

1. All materials and construction shall be in accordance with the City of Celina Standard Specifications and Construction Standards, and Standard Specifications for Public Works Construction prepared by North Central Texas Council of Governments (Latest Revision).
2. Existing utilities are shown schematically and are for the contractors guidance only. The location and/or elevation of existing utilities as shown on these plans are based on records of the various utility companies, and, where possible, measurements taken in the field. The contractor must call the appropriate utility company at least 48 hours prior to any excavation to request exact field location of utilities.
3. The contractor shall be responsible for protecting all existing improvements in the construction of this project. The contractor is responsible for repairs of damage to any existing improvements during construction. Repairs shall be equal to or better than condition prior to construction.
4. All storm sewer pipe under pavement and 18" and larger shall be Class III RCP. All storm sewer pipe 15" and smaller (not under pavement) shall be HDPE drainage pipe or approved equal.
5. Contractor shall be responsible for maintaining trench safety requirements in accordance with the latest standards of O.S.H.A. or any other agency having jurisdiction for excavation and trenching procedures. Contractor shall provide and implement a trench safety plan complying with O.S.H.A.
6. All pipe joints shall have omniflex joint sealer.
7. All roof drain laterals shall be 0.50 % min. slope.
8. HDPE pipe shall be installed per manufacturers specifications.

GRADING NOTES

1. All materials and construction shall be in accordance with the City of Celina Standard Specifications and Construction Standards, and Standard Specifications for Public Works Construction prepared by North Central Texas Council of Governments (Latest Revision).
2. Existing utilities are shown schematically and are for the contractors guidance only. The location and/or elevation of existing utilities as shown on these plans are based on records of the various utility companies, and, where possible, measurements taken in the field. The contractor must call the appropriate utility company at least 48 hours prior to any excavation to request exact field location of utilities.
3. The contractor shall be responsible for protecting all existing improvements in the construction of this project. The contractor is responsible for repairs of damage to any existing improvements during construction. Repairs shall be equal to or better than condition prior to construction.
4. All earthwork operations shall conform to the recommendations in Geotechnical Report.
5. Erosion Control shall be in place prior to the disturbance of any existing surface.
6. All sidewalk and crosswalk slopes shall not exceed the following A.D.A. requirements:
   1:20 longitudinal (along the walk) max.
   1:50 transverse (across the walk) max.
   All handicap loading and unloading areas shall not exceed 1:50 slope in any direction.
7. All proposed grades are top of pavement or finished landscape grade elevations. Contractor to allow for seeding or sodding of landscape areas.

STORMWATER POLLUTION PREVENTION NOTES

1. It is the intent of the informaton provided on this sheet and within the specifications to be used as the general guidelines of the storm water pollution prevention plan for this project to establish a minimum basis of compliance with federal regulations.

   The contractor shall prepare the storm water pollution prevention plan and be solely responsible for its implementation.

   The storm water pollution prevention plan shall meet the current EPA and TCEQ requirements for storm water discharges from construction sites.

2. The storm water pollution prevention plan should address three goals:
   a) Diversion of upslope water around disturbed areas of the site;
   b) Limit the exposure of disturbed areas to the shortest duration possible; and
   c) Removal of sediment from storm water before it leaves the site.
3. The contractor shall make the storm water pollution prevention plan available, upon request, to epa.
4. The contractor must amend plans whenever there is a change in design, construction, operation, or maintenance of the plan, or when the existing plan proves ineffective. modifications including design and all additional materials and work shall be accomplished by the contractor at no additional expense to the owner.
5. Stabilization measures are to be inspected at a minimum of once every 7 days and within 24 hours after any storm event greater than .05 inches. repairs and inadequacies revealed by the inspection must be implemented within 1 calendar day following the inspection.
6. An inspection report that summarizes inspection activites and implementation of the storm water pollution prevention plan shall be retained and made part of the plan.
7. All contractors and subcontractors identified in the plan must certify as to an understanding of the npdes general permit before conducting any activity identified in the pollution prevention plan.
8. The contractor shall adopt appropriate construction site management practices to prevent the discharge of oils, grease, paints, gasoline, and other pollutants to storm water. appropriate practices can include:
   Designating areas for equipment maintenance and repair;
   Regular collection of wastes;
   Conveniently located waste receptacles; and
   Designating and controlling equipment washdown.
9. The contractor shall amend or modify this plan as required by construction means, methods, and sequence. modifications shall not compromise the intent of the requirements of the law and this plan. modifications shall not be basis for additional cost to the owner.
10. Areas of construction elsewhere on the jobsite shall conform to the detail shown on the plans.
11. Borrow areas, if excavated, shall be protected and stabilized utilizing the plan details. all work shall conform to governmental requirements and become part of the storm water pollution prevention plan (swp3). this work shall be done by the contractor at no additional expense to the owner.
12. All non-paved areas shall be mulched and seeded with erosion protection immediately upon completion of final grading. this includes all ditches and embankments. the contractor shall maintain final grading and keep seeded areas watered until fully established and accepted by owner.
13. The contractor shall construct a stabilized construction exit at all traffic exit points prior to exiting onto any paved roadway.
14. The contractor shall construct a reinforced filter barrier (rfb) at all locations shown on plans. the rfb shall be constructed as detailed.
15. All disturbed ground areas shall be hydromulched or sodded per approved Landscape Plans upon completion of final grading.

MISC. INFORMATION

BENCH MARK

FEMA BENCHMARK
SQUARE CUT ON NORTH END OF WEST HEADWALL OVER CREEK WEST SIDE OF S.H. NO. 289 – 150' + SOUTH OF F.M. NO. 455
ELEV. 702.97

BIDDING & REVIEW RELEASE
NOT FOR CONSTRUCTION

This document is released for the purpose of interim review & bidding only and shall not be used for construction purposes. This document is subject to review by the Texas Department of Transportation, City of Celina, and Celina ISD which may require revisions prior to authorization of construction. Construction documents will be issued upon final review and approval by project owner and jurisdictional representatives.

REVISION	DATE	DESCRIPTION

RLK ENGINEERING, INC.
111 West Main
Allen, Texas 75013
(972) 359-1733 Off
(972) 359-1833 Fax

BIDDING & REVIEW RELEASE
NOT FOR CONSTRUCTION

STATE OF TEXAS
RONNY KLINGBEIL
76831
LICENSED PROFESSIONAL ENGINEER
12/18/06

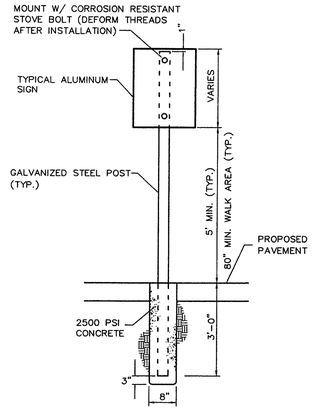
Refer To Sheet C31 for General Notes.

GENERAL NOTES

CELINA HIGH SCHOOL
S.H. 289 and C.R. 105
CELINA, TEXAS

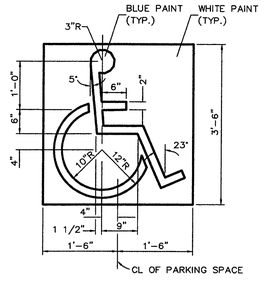
DESIGNED BY:	TECH REVIEW:	DRAWING FILE:	DRAWING SCALE:	SHEET:
RLK Engineering	RLK	06076 NOTES.dwg	1" = 40'	C 31 OF 32
DRAWN BY:	PEER REVIEW:	DRAWING DATE:	PROJECT NUMBER:	
RLK Engineering	RLK	12/18/06	RLK: 06076	

P-200702-01



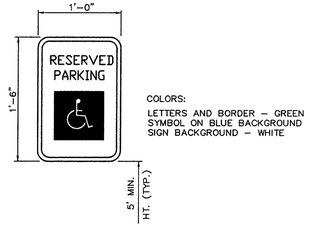
TYPICAL SIGNAGE MOUNTING DETAIL

N.T.S.



HANDICAP SYMBOL DETAIL

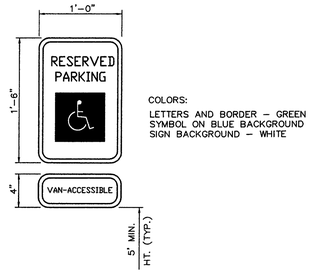
N.T.S.



NOTES:
1. SPACING BETWEEN LETTERS, COLORS, AND PROCESSES SHALL CONFORM STANDARD HIGHWAY AND SIGN DESIGNS FOR TEXAS.
2. INSTALL WHERE INDICATED ON PLANS.
3. VAN–ACCESSIBLE SIGNAGE ON VAN SPACES ONLY.

TYPICAL SIGNAGE DETAIL TYPE I

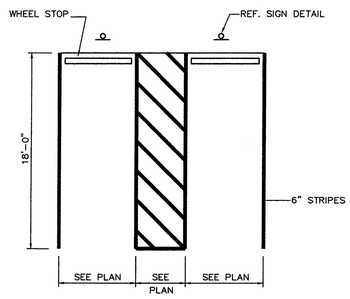
N.T.S.



NOTES:
1. SPACING BETWEEN LETTERS, COLORS, AND PROCESSES SHALL CONFORM STANDARD HIGHWAY AND SIGN DESIGNS FOR TEXAS.
2. INSTALL WHERE INDICATED ON PLANS.
3. VAN–ACCESSIBLE SIGNAGE ON VAN SPACES ONLY.

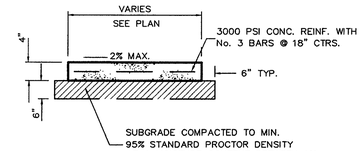
TYPICAL SIGNAGE DETAIL TYPE II

N.T.S.



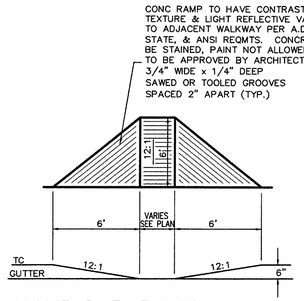
HANDICAP STRIPING DETAIL

N.T.S.



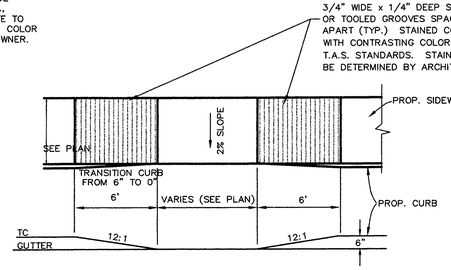
SITE SIDEWALK DETAIL

N.T.S.



HANDICAP RAMP DETAIL

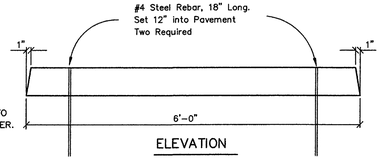
N.T.S.



ONSITE HANDICAP RAMP DETAIL

N.T.S.

NOTE:
ALL HANDICAP RAMPS WITHIN PUBLIC RIGHT–OF–WAY SHALL CONFORM TO THE CURRENT CITY STANDARDS.

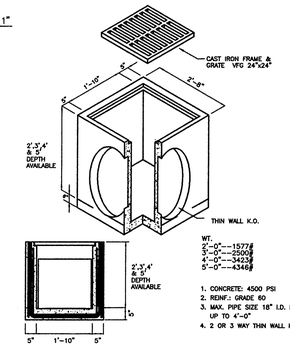


TYPICAL SECTION

1. PROVIDE ONE PRECAST CONCRETE SAFETY CURB PER PARKING SPACE 2 FT FROM END OF SPACE EXCEPT ADJACENT TO MONOLITHIC CURBS.
2. THE PRECAST CONCRETE SAFETY CURB SHALL BE ATTACHED SECURELY TO THE CONCRETE PAVEMENT WITH APPROVED EPOXY ADHESIVE.

WHEEL STOP

N.T.S.



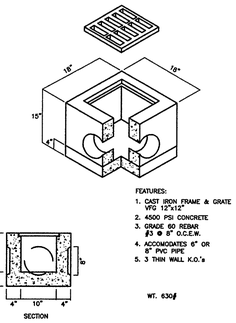
WT.
2'–0"—1577#
3'–0"—2500#
4'–0"—3423#
5'–0"—4346#

1. CONCRETE: 4500 PSI
2. REINF.: GRADE 60
3. MAX. PIPE SIZE 18" I.D. RCP UP TO 4'–0"
4. 2 OR 3 WAY THIN WALL K.O.'s

CATCH BASIN No. 24

N.T.S.

AMERICAN INDUSTRIAL PRE–CAST
CATCH BASIN No. 24
OR APPROVED EQUAL



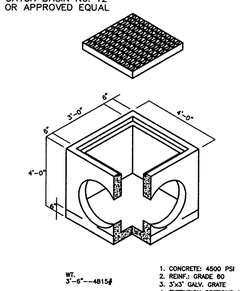
FEATURES:
1. CAST IRON FRAME & GRATE VFG 12"x12"
2. 4500 PSI CONCRETE
3. GRADE 60 REBAR #3 @ 8" O.C.E.W.
4. ACCOMODATES 6" OR 8" PVC PIPE
5. 3 THIN WALL K.O.'s

WT. 630#

CATCH BASIN No. 12

N.T.S.

AMERICAN INDUSTRIAL PRE–CAST
CATCH BASIN No. 12
OR APPROVED EQUAL



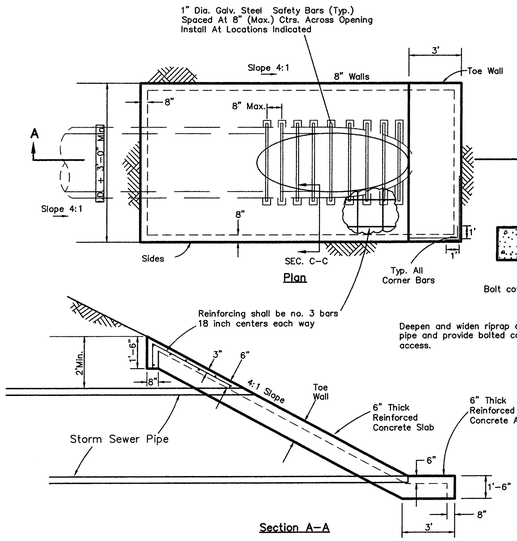
WT.
3'–6"—4815#

1. CONCRETE: 4500 PSI
2. REINF.: GRADE 60
3. 3'x3' GALV. GRATE
4. EXTENSION SECTIONS AVAILABLE 12", 24", 36", OR 48"
5. MAX. PIPE SIZE 30"RCP

CATCH BASIN No. 36

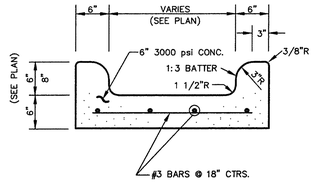
N.T.S.

AMERICAN INDUSTRIAL PRE–CAST
CATCH BASIN No. 36
OR APPROVED EQUAL



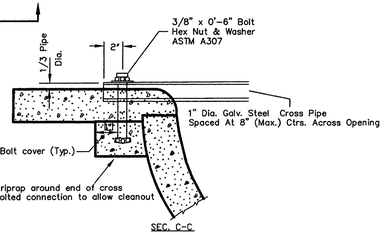
SLOPED END HEADWALL

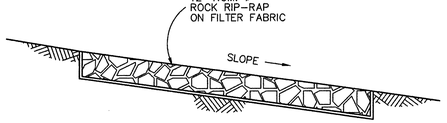
n.t.s.



TYPICAL FLUME

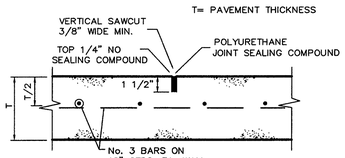
N.T.S.





TYPICAL RIP–RAP

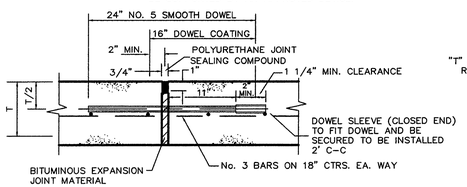
n.t.s.



SAWED DUMMY (CONTROL) JOINT

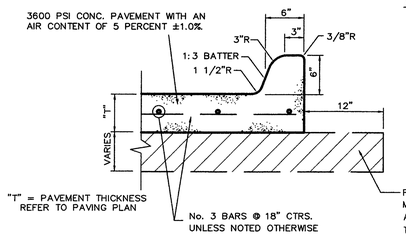
N.T.S.

MAXIMUM SPACING IS 15' CTRS. (TYP.)

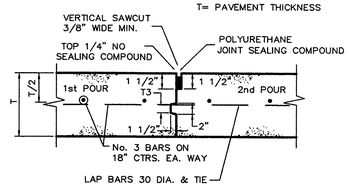


EXPANSION JOINT

N.T.S.



NOTE
REFER TO GEOTECHNICAL EXPLORATION FOR FILL COMPACTION REQUIREMENTS, PAVEMENT INSTALLATION, AND ALL EARTHWORK OPERATIONS.



CONSTRUCTION JOINT

N.T.S.

FOR 6" PAVEMENT, LIME STABILIZE 6" SUBGRADE (TxDOT ITEM 260) WITH A MINIMUM 6% HYDRATED LIME BY WEIGHT (TxDOT ITEM 264), COMPACTED TO A MINIMUM 95% STD. PROCTOR DENSITY AT A MOISTURE CONTENT AT TWO PERCENT ABOVE OPTIMUM.

FOR ALL PAVEMENT 7" AND GREATER THAN 7" IN THICKNESS, LIME STABILIZE 8" SUBGRADE (TxDOT ITEM 260) WITH A MINIMUM 6% HYDRATED LIME BY WEIGHT (TxDOT ITEM 264), COMPACTED TO A MINIMUM 95% STD. PROCTOR DENSITY AT A MOISTURE CONTENT AT TWO PERCENT ABOVE OPTIMUM.

ONSITE PROCESSED LIMESTONE MAY BE SUBSTITUTED FOR LIME STABILIZED SUBGRADE. PROCESSED LIMESTONE SHALL BE COMPACTED TO A MINIMUM 95% STD. PROCTOR DENSITY AT A MOISTURE CONTENT BETWEEN OPTIMUM AND FOUR PERCENT ABOVE OPTIMUM.

CONCRETE PAVEMENT SECTION

N.T.S.

NOTE:
CITY DETAILS TAKE PRECEDENCE IN CITY R.O.W.

Refer To Sheet C31 for General Notes.

MISC. INFORMATION

BENCH MARK

FEMA BENCHMARK
SQUARE CUT ON NORTH END OF WEST HEADWALL OVER CREEK WEST SIDE OF S.H. NO. 289 – 150' + SOUTH OF F.M. NO. 455
ELEV. 702.97

BIDDING & REVIEW RELEASE
NOT FOR CONSTRUCTION

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REVISION	DATE	DESCRIPTION

RLK ENGINEERING, INC.
111 West Main
Allen, Texas 75013
(972) 359-1733 Off
(972) 359-1833 Fax

BIDDING & REVIEW RELEASE
NOT FOR CONSTRUCTION

STATE OF TEXAS
RONNY KLINGBEIL
78831
REGISTERED
PROFESSIONAL ENGINEER
12/18/06

DETAILS

CELINA HIGH SCHOOL

S.H. 289 and C.R. 105
CELINA, TEXAS

DESIGNED BY:	TECH REVIEW:	DRAWING FILE:	DRAWING SCALE:	SHEET:
RLK Engineering	RLK	06076 DETAIL1.dwg	1" = 40'	C 32 OF 32
DRAWN BY:	PEER REVIEW:	DRAWING DATE:	PROJECT NUMBER:	
RLK Engineering	RLK	12/18/06	RLK: 06076	

P-200702-01

NOTE 1) SELLING PORTION OF THIS ADDITION BY METES AND BOUNDS IS A VIOLATION OF CITY ORDINANCE AND STATE LAW, AND IS SUBJECT TO FINES AND WITHHOLDING OF UTILITIES AND BUILDING PERMITS.

NOTE 2) THE UNDERSIGNED DOES HERE BY COVENANT AND AGREE THAT THE ACCESS EASEMENT MAY BE UTILIZED BY ANY PERSON AND OR THE GENERAL PUBLIC FOR INGRESS AND EGRESS TO PUBLIC AND VEHICULAR AND PEDESTRIAN USE AND ACCESS, AND FOR FIRE DEPARTMENT AND EMERGENCY USE, IN LONG, UPON AGENTS, EMPLOYEES, WORK MEN, AND REPRESENTATIVES HAVING INGRESS, EGRESS AND REGRESS IN, ALONG, UPON AND ACROSS SAID PREMISES.

STATE OF TEXAS
COUNTY OF DENTON

WHEREAS, SANDLOT HITTING & PITCHING ACADEMY, LLC IS THE OWNER OF A TRACT OF LAND SITUATED IN THE JOHN MORTON SURVEY, ABSTRACT NO. 791, DENTON COUNTY, TEXAS AND BEING OUT OF A TRACT CONVEYED TO HIM BY NATALYA K. GEREMESZ–WATRZYK AND A TRACT CONVEYED TO HIM BY EDUARDO BELL, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

NOW, THEREFORE, KNOW ALL MEN BY THESE PRESENTS:

THAT SANDLOT HITTING AND PITCHING, THROUGH JASON PAPES, ACTING HEREIN BY AND THROUGH HIS DULY AUTHORIZED OFFICER(S), DOES HERE BY ADOPT THIS PLAT DESIGNATING THE HEREIN ABOVE DESCRIBED PROPERTY AS THE SANDLOT ADDITION, LOT 1R AN ADDITION WITHIN THE EXTRATERRITORIAL JURISDICTION OF THE CITY OF CELINA, TEXAS, AND DOES HEREBY DEDICATE, IN FEE SIMPLE TO THE PUBLIC USE FOREVER, THE STREETS, RIGHTS–OF–WAY, AND OTHER PUBLIC IMPROVEMENTS SHOWN THEREON. THE STREETS AND ALLEYS, IF ANY, ARE DEDICATED, FOR THE STREETS PURPOSES. THE EASEMENTS AND PUBLIC USE AREAS, AS SHOWN, ARE DEDICATED, FOR THE PUBLIC USE FOREVER, FOR THE PURPOSES INDICATED ON THIS PLAT. NO BUILDINGS, FENCES, TREES, SHRUBS OR OTHER IMPROVEMENTS OR GROWTHS SHALL BE CONSTRUCTED OR PLACED UPON, OVER OR ACROSS THE EASEMENTS AS SHOWN, EXCEPT THAT LANDSCAPE IMPROVEMENTS MAY BE PLACED ON LANDSCAPE EASEMENTS, IF APPROVED BY THE CITY COUNCIL OF THE CITY OF CELINA. IN ADDITION, UTILITY EASEMENTS MAY ALSO BE USED FOR THE MUTUAL USE AND ACCOMMODATION OF ALL PUBLIC UTILITIES DESIRING TO USE OR USING THE SAME UNLESS THE EASEMENT LIMITS THE USE OF TO PARTICULAR UTILITIES, SAID USE BY PUBLIC UTILITIES BEING SUBORDINATE TO THE PUBLIC'S AND CITY OF CELINA'S USE THEREFORE. THE CITY OF CELINA AND PUBLIC UTILITY ENTITIES SHALL HAVE THE RIGHT TO REMOVE AND KEEP REMOVED ALL OR PARTS OF ANY BUILDINGS, FENCES, TREES, SHRUBS OR OTHER IMPROVEMENTS OR GROWTHS WHICH MAY IN ANY WAY ENDANGER OR INTERFERE WITH THE CONSTRUCTION, MAINTENANCE, OR EFFICIENCY OF THEIR RESPECTIVE SYSTEMS IN SAID EASEMENTS. THE CITY OF CELINA AND PUBLIC UTILITY ENTITIES SHALL AT ALL TIMES HAVE THE FULL RIGHT INGRESS AND EGRESS TO OR FROM THEIR RESPECTIVE EASEMENTS FOR THE PURPOSE OF CONSTRUCTING, RECONSTRUCTING, INSPECTING, PATROLLING, MAINTAINING, READING METERS, AND ADDING TO OR REMOVING ALL OR PARTS OF THEIR RESPECTIVE SYSTEMS WITHOUT THE NECESSITY AT ANY TIME PROCURING PERMISSION FROM ANYONE.

THIS PLAT APPROVED SUBJECT TO ALL PLATTING ORDINANCES, RULES, REGULATIONS AND RESOLUTIONS OF THE CITY OF CELINA, TEXAS.

WITNESS, MY HAND THIS THE 13 DAY OF July, 2015.

BY:

AUTHORIZED SIGNATURE OF OWNER

Jason Papes - Owner
PRINTED NAME AND TITLE

STATE OF TEXAS
COUNTY OF DENTON

BEFORE ME, THE UNDERSIGNED AUTHORITY, A NOTARY PUBLIC IN AND FOR THE STATE OF TEXAS, ON THIS DAY PERSONALLY APPEARED JASON PAPES, KNOWN TO ME TO BE THE PERSON WHOSE NAME IS SUBSCRIBED TO THE FOREGOING INSTRUMENT AND ACKNOWLEDGED TO ME THAT HE EXECUTED THE SAME FOR THE PURPOSE AND CONSIDERATIONS THEREIN EXPRESSED.

GIVEN UNDER MY AND SEAL OF OFFICE, THIS 13 DAY OF July, 2015

ASHLEY S. HOGAN
MY COMMISSION EXPIRES
August 25, 2018

NOTARY PUBLIC IN AND FOR THE STATE OF TEXAS

MY COMMISSION EXPIRES ON: Aug 25, 2018

KNOWN ALL MEN BY THESE PRESENTS:

THAT I, PHILIP W. CORNETT, DO HERE BY CERTIFY THAT I PREPARED THIS PLAT FROM AN ACTUAL AND ACCURATE SURVEY OF THE LAND AND THAT THE CORNER MONUMENTS SHOWN THEREON AS "SET" WERE PROPERLY PLACED UNDER MY PERSONAL SUPERVISION IN ACCORDANCE WITH THE SUBDIVISION ORDINANCE OF THE CITY OF CELINA.

5/20/2015
DATE

8/18/2015

STATE OF TEXAS
PHILIP W. CORNETT
5515
PROFESSIONAL LAND SURVEYOR

STATE OF TEXAS
COUNTY OF DENTON

BEFORE ME, THE UNDERSIGNED AUTHORITY, A NOTARY PUBLIC IN AND FOR THE STATE OF TEXAS, ON THIS DAY PERSONALLY APPEARED Philip W. Cornett REGISTERED PROFESSIONAL LAND SURVEYOR, KNOWN TO ME TO BE THE PERSON WHOSE NAME IS SUBSCRIBED TOT HE FORGOING INSTRUMENT AND ACKNOWLEDGED TO ME THAT HE EXECUTED THE SAME FOR THE PURPOSE AND CONSIDERATIONS THEREIN EXPRESSED.

GIVEN UNDER MY AND SEAL OF OFFICE, THIS 18 DAY OF August, 2015

NOTARY PUBLIC IN AND FOR THE STATE OF TEXAS

MY COMMISSION EXPIRES ON: 9-22-2015

VICKI J FAULKNER
NOTARY PUBLIC
STATE OF TEXAS
EXPIRES
09/22/2015

THIS PROPERTY IS LOCATED WITHIN THE EXTRATERRITORIAL JURISDICTION OF THE CITY OF CELINA, DENTON COUNTY, TEXAS.

SIGNATURE OF MAYOR — DATE OF APPROVAL: 8-11-15

ATTEST:
CITY SECRETARY — DATE: 08/18/2015

THE CITY OF CELINA TEXAS

APPROVAL BLOCK FOR ALL PLATS

APPROVED FOR PREPARATION OF FINAL PLAT FOLLOWING CONTRUCTION OF ALL PUBLIC IMPROVEMENTS (OR APPROPRIATE SURETIES THEREOF) NECESSARY FOR THE SUBDIVISION SHOWN ON THIS PLAT.

RECOMMENDED BY:
SIGNATURE OF CHAIRPERSON

PLANNING AND ZONING COMMISSION
CITY OF CELINA, TEXAS
7-21-15
DATE RECOMMENDATION

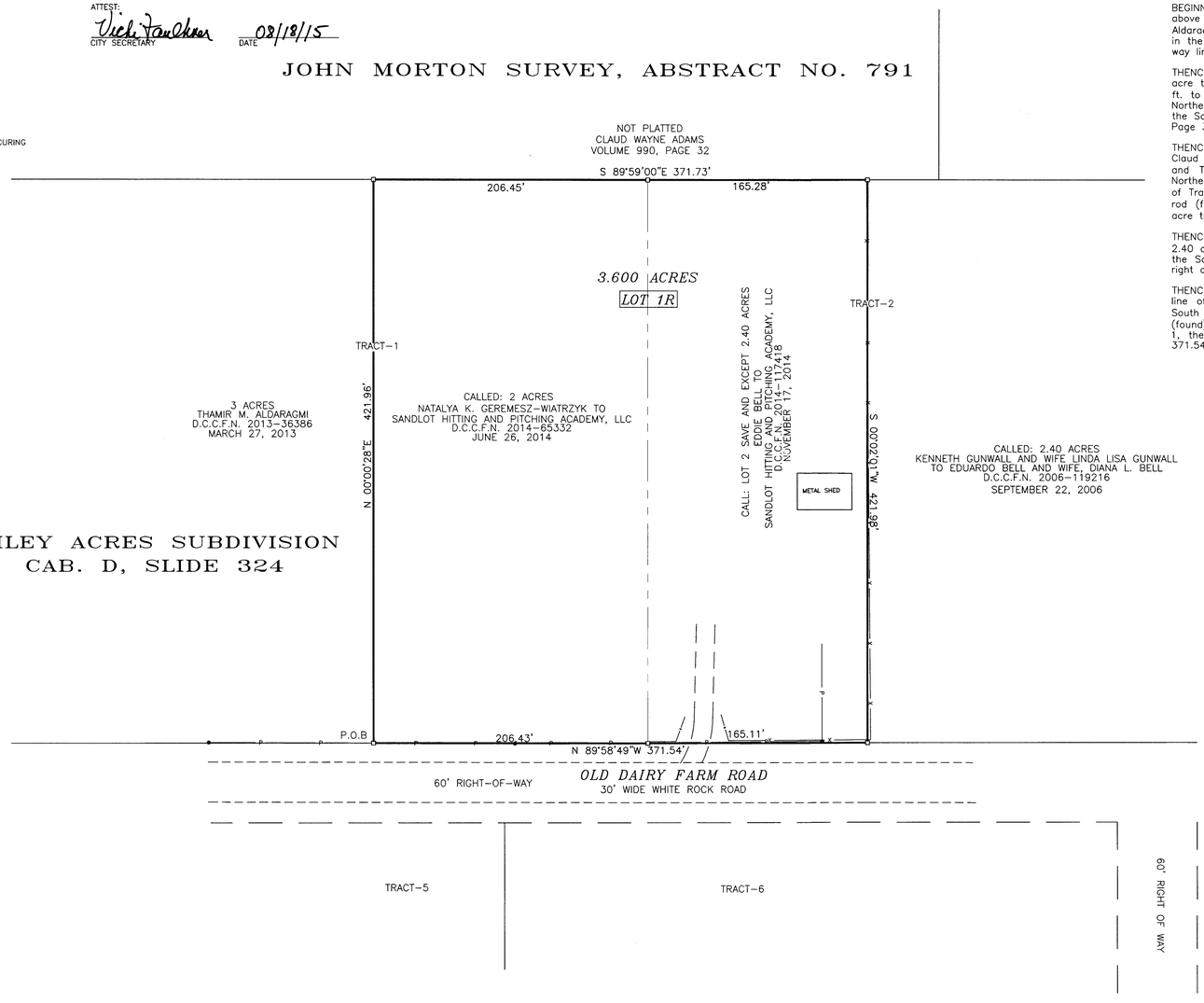
APPROVED BY:
SIGNATURE OF MAYOR

CITY COUNCIL
CITY OF CELINA, TEXAS
8-11-15
DATE APPROVAL

ATTEST:
CITY SECRETARY

08/18/15
DATE

JOHN MORTON SURVEY, ABSTRACT NO. 791



SMILEY ACRES SUBDIVISION
CAB. D, SLIDE 324

LEGAL DESCRIPTION

All that certain lot, tract or parcel of land, being part of the John Morton Survey, Abstract No. 791, Denton County, Texas, being part of Tract 1 and 2 of the Smiley Acres Addition, as shown by plat of same recorded in Cabinet D, Slide 324 of the Plat Records of Denton County, Texas, being all of that certain called 2 acre tract described in a deed from Natalya K. Geremesz–Wiatrzyk to Sandlot Hitting and Pitching Academy, LLC on June 26, 2014 and recorded in County Clerk's File No. 2014–65332, part of that certain called Lot 2, Save and Except 2.40 acres described in a deed from Eddie Bell to Sandlot Hitting and Pitching Academy, LLC on November 17, 2014 and recorded in County Clerk's File No. 2014–117418, being more completely described as follows, to–wit:

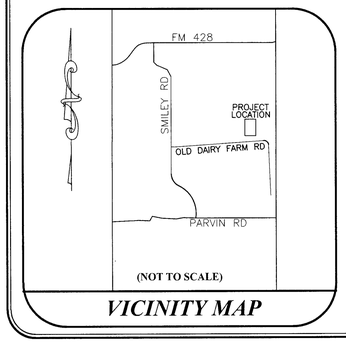
BEGINNING at a 1/2" iron rod (found) for the Southwest corner of the above mentioned 2 acre tract, the Southeast corner of the Thamir M. Aldaragmi 3 acre tract described in County Clerk's File No. 2013–36386, in the South line of the above mentioned Tract 1, in the North right of way line of Old Dairy Farm Road;

THENCE North 00 deg. 00 min. 28 sec. East with the East line of the 3 acre tract and the West line of the 2 acre tract, a distance of 421.96 ft. to a 1/2" iron rod (found) for the Northwest corner of same, the Northeast corner of the 3 acre tract, in the North line of Tract 1, in the South line of the Claud Wayne Adams tract described in Volume 990, Page 32;

THENCE South 89 deg. 59 min. 00 sec. East with the South line of the Claud Wayne Adams tract, the North line of the 2 acre tract, Tract 1 and Tract 2, at 206.45 ft. pass a 1/2" iron rod (found) for the Northeast corner of the 2 acre tract and Tract 1, the Northwest corner of Tract 2, and continue a total distance of 371.73 ft. to a 1/2" iron rod (found) for corner, the Northwest corner of the Eduardo Bell 2.40 acre tract described in County Clerk's File No. 2006–119216;

THENCE South 00 deg. 02 min. 01 sec. West with the West line of the 2.40 acre tract, a distance of 421.98 ft. to a 1/2" iron rod (found) for the Southwest corner of same, in the South line of Tract 2, the North right of way line of Old Dairy Farm Road;

THENCE North 89 deg. 58 min. 49 sec. West with the North right of way line of Old Dairy Farm Road, the South line of Tracts 1 and 2, the South line of the 2 acre tract, at 165.11 ft. pass a 1/2" iron rod (found) for the Southeast corner of same, the Southeast corner of Tract 1, the Southwest corner of Tract 2, and continue a total distance of 371.54 ft. to the place of beginning, containing 3.600 acres of land.



VICINITY MAP

LEGEND OF SYMBOLS & ABBREVIATIONS

(V)	WATER VALVE		LIGHT POLE
—SS—	SANITARY SEWER		GUY ANCHOR
T	PEDESTAL BOX		MANHOLE
—x—	FENCE		FIRE HYDRANT
—P—	POWER LINE		HANDICAPPED PARKING
W	WATER METER		PROPERTY CORNER
	POWER POLE	E	ELECTRIC BOX
—W—	WATER LINE	—G—	GAS PIPELINE
—T—	TELEPHONE LINE	G	GAS VALVE
—FO—	FIBER OPTIC LINE	—C—	UNDERGROUND CABLE

GENERAL NOTES

BEARINGS ARE ORIENTED TO THE NORTH LINE OF A CALLED SMILEY ACRES SUBDIVISION, RECORDED IN CABINET D, SLIDE 324 OF THE PLAT RECORDS OF DENTON COUNTY, TEXAS.

ALL BUILDING AND DEVELOPMENT PERMITS MUST BE OBTAINED FROM THE CITY OF CELINA, TEXAS.

□ – DENOTES 1/2" IRON ROD FOUND UNLESS OTHERWISE NOTED.

FLOOD NOTE

THE SUBJECT TRACT LIES WITHIN ZONE "X", AREAS DETERMINED TO BE OUTSIDE THE 0.2% CHANCE FLOODPLAIN PER FIRM (FLOOD INSURANCE RATE MAP) MAP NO. 48121C0290G WITH A REVISED DATE OF APRIL 18, 2011.

FINAL PLAT
THE SANDLOT ADDITION, LOT 1R, BEING A REPLAT OF THE SMILEY ACRES ADDITION, BEING PART OF TRACTS 1 AND 2 OF THE SMILEY ACRES ADDITION TO DENTON COUNTY, TEXAS, RECORDED IN CABINET D, SLIDE 324, PLAT RECORDS OF DENTON COUNTY, TEXAS

3.600 ACRES
4–22–2015

OWNER: SANDLOT HITTING AND PITCHING, LLC
6256 DOUGLAS AVENUE
FRISCO, TEXAS 75034
PHONE: 214–288–2659

50 0 50 100 150
GRAPHIC SCALE – FEET

JOB: F 15–002
BOOK: 1237/71

JOHN COWAN & ASSOCIATES, INC.
2012 ANTHONY DRIVE, TYLER, TEXAS 75701 PH: (903) 581-2238 FAX: (903) 561-0600 FIRM REGISTRATION CERTIFICATION NO. 10025500
8992 PRESTON ROAD, STE 110-313, FRISCO, TEXAS 75034 PH: (214) 504-5305 FAX: (903) 561-0600 FIRM REGISTRATION CERTIFICATION NO. 10194055

P-200702-01