CONSTRUCTION PLANS

FOR

CELINA FIRE STATION NO.1

PRESTON ROAD AND OKLAHOMA DRIVE

3.926 ACRES
COLLIN COUNTY, TEXAS
AUG 2014

MAYOR
SEAN TERRY

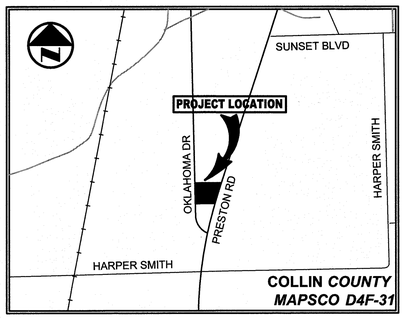
MAYOR PRO TEM
CARMEN ROBERTS

COUNCIL MEMBERS
GEORGE KENDRICK
WAYNE NABORS
VINCENT RAMOS
LORI VADEN
CHAD ANDERSON

CITY MANAGER
MIKE FOREMAN

DIRECTOR OF PUBLIC WORKS
JOSEPH JOHNSON

CITY ENGINEER
GABE JOHNSON, PE, PH, CFM



VICINITY MAP
(NOT TO SCALE)

DRAWING SHEET INDEX

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FOR

BROWN REYNOLDS WATFORD
ARCHITECTS
3535 TRAVIS STREET
SUITE 250
DALLAS, TEXAS 75204
214.528.8704
WWW.BRWARCH.COM

PREPARED BY

Pacheco Koch
DALLAS ▪ FORT WORTH ▪ HOUSTON
8350 N. CENTRAL EXPWY. SUITE 1000 PH. 972.235.3031
DALLAS, TX 75206 FAX 972.235.9544
TX REG. ENGINEERING FIRM F-469
TX REG. SURVEYING FIRM LS-100080-00

STATE OF TEXAS
CHRISTOPHER M. JONES
82681
LICENSED PROFESSIONAL ENGINEER
8/29/14

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY CHRISTOPHER M. JONES, P.E. 82681 ON 08/29/2014. ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT.

CITY OF CELINA
ENGINEERING DEPARTMENT
RELEASED FOR CONSTRUCTION
DATE 9/3/2014 BY

PRIOR TO CONSTRUCTION, THE OWNER OR THEIR REPRESENTATIVE SHALL NOTIFY THE CITY OF CELINA ENGINEERING DEPARTMENT AT 972-382-2682 x1081. CONSTRUCTION DRAWINGS STAMPED BY THE CITY OF CELINA SHALL BE ON THE PROJECT SITE AT ALL TIMES DURING CONSTRUCTION. THE CITY OF CELINA STANDARD SPECIFICATIONS FOR CONSTRUCTION SHALL TAKE PRECEDENCE OVER THESE PLANS WHENEVER IN CONFLICT THEREWITH. DISCLAIMER: ALL NECESSARY APPROVALS AND PERMITS SHALL BE ACQUIRED PRIOR TO CONSTRUCTION.

P-201403-01

JSCOTT
08/29/2014 – 4:32PM
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CELINA FIRE STATION NO.1 - P-201403-01

DWG FILE: 2963-13.342CV.DWG
XREF FILE: 2963-13.342SU.DWG

LOT 4, BLOCK A
HERRIN ADDITION
(VOL. 0, PG. 570)

ZONED: SF-15
PRESTON ROAD OVERLAY DISTRICT

LOT 2, BLOCK A
HERRIN ADDITION
(VOL. 0, PG. 570)

ZONED: SF-15
PRESTON ROAD OVERLAY DISTRICT

IRA PLUS SOUTHWEST, LLC
FBO LYNNE S. WOLF IRA
(INST. NO. 20081203001383410)

PRESTON ROAD OVERLAY DISTRICT

LOT 1, BLOCK A
HERRIN ADDITION
(VOL. 0, PG. 570)

PART OF
CITY OF CELINA
(INST. NO. 20130618000845970)
(INST. NO. 20130618000845980)

LOT 2, BLOCK A
CELINA FIRE STATION
2.552 ACRES
(111,182 SF)

PART OF
CITY OF CELINA
(INST. NO. 20130618000845970)
(INST. NO. 20130618000845980)

JEOU-SHYONG HUANG &
MEI-FU LIN HUANG
(INST. NO. 20120703000803140)

PRESTON ROAD OVERLAY DISTRICT

HASKELL LEMMON PARTNERS, LTD.
(VOL. 5662, PG. 2724)

ZONED: C1
PRESTON ROAD OVERLAY DISTRICT

WILLARD CATTLE COMPANY I, LTD.
(VOL. 5169, PG. 299)

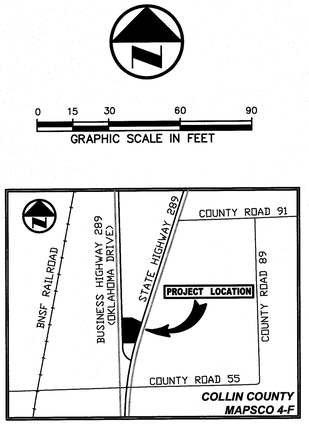
ZONED: MU-2
PRESTON ROAD OVERLAY DISTRICT

RIGHT-OF-WAY DEDICATION (VOL. 0, PG. 570)
15' S.W.B.T. CO. EASEMENT (VOL. 671, PG. 883)
20' SANITARY SEWER EASEMENT (VOL. 3310, PG. 279)
5/8-INCH IRON ROD W/"ISBELL ENG" CAP FOUND
20' LANDSCAPE BUFFER (CAB. O, PG. 570)
50' BUILDING LINE (CAB. O, PG. 570)
UTILITY EASEMENT (CAB. O, PG. 570)
1/2-INCH IRON ROD W/"PACHECO KOCH" CAP SET
1/2-INCH IRON ROD FOUND
15' WATER EASEMENT (BY THIS PLAT)
25' WATER & WASTEWATER EASEMENT (BY THIS PLAT)
24' FIRE LANE, ACCESS & UTILITY EASEMENT (BY THIS PLAT)
WATER EASEMENT (BY THIS PLAT)
20' SANITARY SEWER EASEMENT (VOL. 3310, PG. 271)
RIGHT-OF-WAY DEDICATION (INST. NO. 20080730000222290)
20' SANITARY SEWER EASEMENT (VOL. 3310, PG. 283)
1/2-INCH IRON ROD W/"YELLOW CAP FOUND IN CONCRETE
1/2-INCH IRON ROD W/"RPLS 4857" CAP FOUND
S 89°06'25" W 9.19' (DEED: 9.16')
24' FIRE LANE & COMMON ACCESS EASEMENT (CAB. O, PG. 570)
24' RECIPROCAL ACCESS EASEMENT (VOL. 5426, PG. 4871)
16' UTILITY EASEMENT (VOL. O, PG. 570)
20' WASTE WATER EASEMENT (VOL. 5510, PG. 2861) (TO BE ABANDONED BY THIS PLAT)
20' WASTE WATER EASEMENT (VOL. 5510, PG. 2861)
1/2-INCH IRON ROD W/"ALLIANCE" CAP FOUND
3-INCH BRASS DISK STAMPED "TXDOT" FOUND IN CONCRETE (C.M.)
3-INCH ALUMINUM DISK STAMPED "TXDOT" FOUND IN CONCRETE (C.M.)
75' BUILDING LINE (CAB. O, PG. 570)
1/2-INCH IRON ROD W/YELLOW CAP FOUND
PROPOSED ACCESS DRIVE
POINT OF BEGINNING

N 89°06'11" E 159.48'
S 80°29'56" E 159.85'
S 70°30'05" E 54.28'
S 17°53'24" W 126.32'
S 19°29'40" W 302.89'
S 89°06'25" W 236.49' (DEED: 236.47')
S 17°31'30" W 16.22' (DEED: 16.23')
N 00°40'41" W 397.56' (DEED: 397.03')
207.52'
214.95'
422.17' (DEED: 422.59') (PLAT: 422.47')
119.62'
119.94' (DEED: 120.22')
1692.04'
118.52'
32.76'
15.00'
30.00'
210.80'
186.07'
104.77'
831.94'
831.87'
236.38'
126.25'
(DEED: 126.00') (PLAT: 126.32')
(PLAT: 382.46') 381.95'
7.36' (DEED: 7.71')
50.00'
88.82'
186.29'
426.86'
225.44'

BUSINESS HIGHWAY 289 (OKLAHOMA DRIVE)
(VARIABLE WIDTH RIGHT-OF-WAY)

PRESTON ROAD (STATE HIGHWAY NO. 289)
(VARIABLE WIDTH RIGHT-OF-WAY)



VICINITY MAP
(NOT TO SCALE)

LEGEND

- PROPERTY LINE
- EASEMENT LINE
- SETBACK LINE
- (C.M.) CONTROLLING MONUMENT

PURPOSE STATEMENT:

THE PURPOSE OF THIS PLAT IS TO CREATE ONE LOT FROM UNPLATTED PROPERTY FOR DEVELOPMENT.

FLOOD NOTE:

Subject property is shown on the National Flood Insurance Program Flood Insurance Rate Map for Collin County, Texas and Incorporated Areas, Map No. 48085C0120J, Community-Panel No. 480133 0120 J, Map Revised: June 2, 2009. All of the subject property is shown to be located in Zone "X" on said map. Relevant zones are defined on said map as follows:

Zone "X" – Other Areas: Areas determined to be outside the 0.2% annual chance floodplain.

LINE TABLE

LINE	BEARING	LENGTH
L1	S 89° 31' 27" W	39.93'
L2	S 89° 31' 27" W	28.97'
L3	N 0° 00' 00" E	10.00'
L4	N 90° 00' 00" W	17.15'
L5	S 0° 00' 40" W	31.35'
L6	S 0° 00' 40" W	26.44'
L7	N 90° 00' 00" E	52.46'
L8	N 90° 00' 00" E	40.16'
L9	N 89° 59' 20" W	41.06'
L10	S 89° 59' 20" E	41.06'
L11	S 60° 30' 05" E	115.99'
L12	S 60° 30' 05" E	115.99'
L13	N 70° 30' 47" W	23.77'
L14	N 70° 30' 47" W	16.71'
L15	S 19° 29' 50" W	203.34'
L16	S 19° 29' 50" W	90.65'
L17	S 70° 30' 20" E	15.34'
L18	S 70° 30' 20" E	15.34'
L19	S 25° 30' 06" E	17.60'
L20	S 70° 30' 04" E	9.41'

LINE TABLE

LINE	BEARING	LENGTH
L21	S 70° 30' 04" E	20.35'
L22	S 19° 29' 50" W	10.00'
L23	N 70° 30' 10" W	24.00'

CURVE TABLE

CURVE	DELTA	RADIUS	LENGTH	TANGENT	CHORD BEARING	CHORD
C1	89°30'47"	20.00'	31.25'	19.83'	N 44°46'04" E	28.16'
C2	89°30'47"	55.00'	85.93'	54.53'	N 44°46'04" E	77.45'
C3	90°00'00"	44.00'	69.12'	44.00'	S 45°00'40" W	62.23'
C4	90°00'00"	20.00'	31.42'	20.00'	S 45°00'40" W	28.28'
C5	29°29'24"	43.00'	22.13'	11.32'	N 75°14'38" W	21.89'
C6	29°29'24"	19.00'	9.78'	5.00'	N 75°14'38" W	9.67'
C7	79°59'57"	44.00'	61.44'	36.92'	N 20°30'06" W	56.57'
C8	79°59'57"	20.00'	27.93'	16.78'	N 20°30'06" W	25.71'
C9	45°00'00"	20.00'	15.71'	8.28'	S 3°00'06" E	15.31'
C10	40°59'21"	20.00'	14.31'	7.48'	S 45°01'04" E	14.00'
C11	90°00'06"	20.00'	31.42'	20.00'	S 64°29'53" W	28.28'

PRELIMINARY
THIS DOCUMENT SHALL NOT BE RECORDED FOR ANY PURPOSE AND SHALL NOT BE USED OR VIEWED OR RELIED UPON AS A FINAL SURVEY DOCUMENT. RELEASED 7/25/14.

CONSTRUCTION PLAT
CELINA FIRE STATION #1
LOCATED IN THE CITY OF CELINA, TEXAS
AND BEING OUT OF THE
COLLIN COUNTY SCHOOL LAND SURVEY,
ABSTRACT NO. 167,
COLLIN COUNTY, TEXAS
2.552 ACRES
SHEET 1 OF 2

PACHECO KOCH CONSULTING ENGINEERS
8350 N. CENTRAL EXPWY., SUITE 1000
DALLAS, TEXAS 75206
PHONE (972) 235-3031
ATTN: MICHAEL C. CLOVER

CITY OF CELINA
142 N. OHIO STREET
CELINA, TEXAS 75009
PHONE (972) 382-2682

P-201403-01

Pacheco Koch
8350 N. CENTRAL EXPWY. SUITE 1000
DALLAS, TX 75206 972.235.3031
TX REG. ENGINEERING FIRM F-14439
TX REG. SURVEYING FIRM LS-10193805

DRAWN BY	CHECKED BY	SCALE	DATE	JOB NUMBER
MWW	MCC	1"=30'	MAY 2014	2963-13.342

DWG FILE: 2963-13.342CP.DWG
XREF FILE: CELINA TITLEBLOCK DD CONSULT.DWG

CELINA FIRE STATION #1 - CONSTRUCTION PLAT

JSCOTT 08/28/2014 - 4:32PM
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PROPERTY OWNER'S CERTIFICATE

STATE OF TEXAS
COUNTY OF COLLIN

WHEREAS, City of Celina is the Owner of a tract of land situated in the Collin County School Land Survey, Abstract No. 167, Collin County, Texas and being part of that certain tract of land described in Special Warranty Deed to the City of Celina recorded in Instrument No. 20130618000845970 and in Instrument No. 20130618000845980, both of the Official Public Records of Collin County, Texas and being more particularly described as follows:

BEGINNING, at a 3-inch aluminum disk stamped "TXDOT" found in concrete for corner in the northwest right-of-way line of Preston Road (State Highway No. 289)(a variable width right-of-way); said point being in the north line of that certain tract of land described in Special Warranty Deed to Haskell Lemmon Partners, Ltd. recorded in Volume 5662, Page 2724 of the Deed Records of Collin County, Texas;

THENCE, South 89 degrees, 06 minutes, 25 seconds West, along the said north line of the Haskell tract, a distance of 236.49 feet to a 1/2-inch iron rod with "RPLS 4857" cap found for corner in the east right-of-way line of Business Highway 289 (Oklahoma Drive)(a variable width right-of-way);

THENCE, North 00 degrees, 40 minutes, 41 seconds West, departing the said north line of the Haskell tract and along the said east line of Business Highway 289, a distance of 397.03 feet to, a 1/2-inch iron rod found for corner at the southwest corner of said Lot 1, Block A, Herrin Addition, an addition to the City of Celina, Texas according to the plat recorded in Volume 0, Page 570 of said Official Public Records;

THENCE, North 89 degrees, 06 minutes, 11 seconds East, departing the said east line of Business Highway 289 and along the south line of said Lot 1, a distance of 159.48 feet to a 1/2-inch iron rod with "PACHECO KOCH" cap set for corner at an angle point;

THENCE, departing the said south line of Lot 1 and crossing said City of Celina tract, the following two (2) calls:

South 60 degrees, 29 minutes, 56 seconds East, a distance of 156.83 feet to a 1/2-inch iron rod with "PACHECO KOCH" cap set for corner at an angle point;

South 70 degrees, 30 minutes, 05 seconds East, a distance of 54.28 feet to a 1/2-inch iron rod with "PACHECO KOCH" cap set for corner in the said northwest line of Preston Raod;

THENCE, along the said northwest line of Preston Road, the following two (2) calls:

South 19 degrees, 29 minutes, 40 seconds West, a distance of 400.30 feet to a 1/2-inch iron rod with "PACHECO KOCH" cap set for corner at an angle point;

South 17 degrees, 31 minutes, 30 seconds West, a distance of 16.22 feet to the POINT OF BEGINNING;

CONTAINING, 111,182 square feet or 2.552 acres of land, more or less.

NOW, THEREFORE, KNOW ALL MEN BY THESE PRESENTS:

That City of Celina acting herein by and through his/her(its) duly authorized officer(s), does hereby adopt this plat designating the herein above described property as Celina Fire Station #1 an addition to 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 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 desiring to use or 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 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 _ day of _____, 2014.

BY:

_____
Authorized Signature of Owner

_____
Printed Name and Title

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 and seal of office, this ____ day of_____, 2014.

_____
Notary Public in and for the State of Texas
My Commission Expires On: _____

SURVEYOR'S CERTIFICATE

KNOW ALL MEN BY THESE PRESENTS:

That I, Michael C. Clover, do hereby 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.

PRELIMINARY
THIS DOCUMENT SHALL NOT BE RECORDED FOR ANY PURPOSE AND SHALL NOT BE USED OR VIEWED OR RELIED UPON AS A FINAL SURVEY DOCUMENT.
RELEASED 7/25/14.

Michael C. Clover
Registered Professional Land Surveyor
Texas Registration No. 5225
mclover@pkce.com

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 Michael C. Clover, Registered Public Land Surveyor, 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 ___ day of_____, 2014.

_____
Notary Public in and for the State of Texas
My Commission Expires On: _____

STANDARD NOTES

1. 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 utilities and building permits.
2. The undersigned does hereby covenant and agree that he or she or they shall construct upon the fire lane easements, as dedicated as shown hereon, a hard surface in accordance with the City of Celina's paving standards for fire lane, and that he or she or they 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 accessibility 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 parking regulations within the fire lanes, and to cause such fire lanes and utility easements to be maintained free and unobstructed at all times for Fire Department and emergency use.
3. The undersigned does 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.
4. The area or areas shown on the plat as "VAM" (Visibility, Access and Maintenance) Easement(s) are hereby given and granted to the city, its successors and assigns, as an easement to provide visibility, right of access for maintenance upon and across said VAM Easement. The city shall have the right but not the obligation to maintain any and all landscaping within the VAM Easement. Should the city exercise this maintenance right, then is shall be permitted to remove and dispose of any and all landscaping improvements, including without limitation, any trees, shrubs, flowers, ground cover and fixtures. The city may withdraw maintenance of the VAM Easement at any time. The ultimate maintenance responsibility for the VAM Easement shall rest with the owners. No building, fence, shrub, tree or other improvements or growths, which in any way may endanger or interfere with the visibility, shall be constructed in, on, over, or across the VAM Easement. The city shall also have the right but not the obligation to add any landscape improvements to the VAM Easement, to erect any traffic control devices or signs on the VAM Easement and to remove any obstruction thereon. The city, its successors, assigns, or agents shall have the right and privilege at all times to enter upon the VAM Easement or any part thereof for the purposes and with all rights and privileges set forth herein.

PROPERTY LOCATION STATEMENT:

This property is located in the corporate limits of the City of Celina, Collin County, Texas.

_____ _____
Signature of Mayor Date of Approval

ATTEST:

_____ _____
City Secretary Date

APPROVAL BLOCK

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

GENERAL NOTES

1. Bearing system for this survey is based on the Texas State Plane Coordinate System – NAD 83, North Central Zone 4202, based upon reference frame 2002.00 (CORS).
2. Subject property is shown on the National Flood Insurance Program Flood Insurance Rate Map for Collin County, Texas and Incorporated Areas, Map No. 48085C0120J, Community-Panel No. 480133 0120 J, Map Revised: June 2, 2009. All of the subject property is shown to be located in Zone "X" on said map. Relevant zones are defined on said map as follows:

   Zone "X" – Other Areas: Areas determined to be outside the 0.2% annual chance floodplain.

3. Square footage totals shown hereon or referenced herein are based on mathematical closures and do not necessarily represent the positional accuracy of the boundary monuments.
4. Except as specifically stated or shown on this plat, this survey does not purport to reflect any of the following which may be applicable to the subject tract: easements; building setback lines; restrictive covenants; subdivision restrictions; zoning or other land-use regulations; Agreements; Lease Agreements; and ownership title evidence.
5. Any declaration made hereon or herein is made to the original purchaser of the survey. It is not transferable to additional institutions or subsequent owners.
6. The distances shown hereon for adjoining and adjacent properties have been compiled from recorded plats and deeds, and do not necessarily represent field verified or monumented distances.
7. The easement for Waster Water utilities filed in Volume 5510, Page 2861 of the Deed Records of Collin County, Texas is abandoned by this plat instrument.

CONSTRUCTION PLAT

CELINA FIRE STATION #1

LOCATED IN THE CITY OF CELINA, TEXAS
AND BEING OUT OF THE
COLLIN COUNTY SCHOOL LAND SURVEY,
ABSTRACT NO. 167,
COLLIN COUNTY, TEXAS
2.552 ACRES
SHEET 2 OF 2

PACHECO KOCH CONSULTING ENGINEERS
8350 N. CENTRAL EXPWY., SUITE 1000
DALLAS, TEXAS 75206
PHONE (972) 235-3031
ATTN: MICHAEL C. CLOVER

CITY OF CELINA
142 N. OHIO STREET
CELINA, TEXAS 75009
PHONE (972) 382-2682

P-201403-01

Pacheco Koch
8350 N. CENTRAL EXPWY. SUITE 1000
DALLAS, TX 75206 972.235.3031
TX REG. ENGINEERING FIRM F-14439
TX REG. SURVEYING FIRM LS-10193805

DRAWN BY	CHECKED BY	SCALE	DATE	JOB NUMBER
MWW	MCC	NONE	MAY 2014	2963-13.342

DWG FILE: 2963-13.342CP.DWG
XREF FILE: CELINA TITLEBLOCK DD CONSULT.DWG

CELINA FIRE STATION #1 - CONSTRUCTION PLAT

JSCOTT 08/28/2014 - 4:32PM
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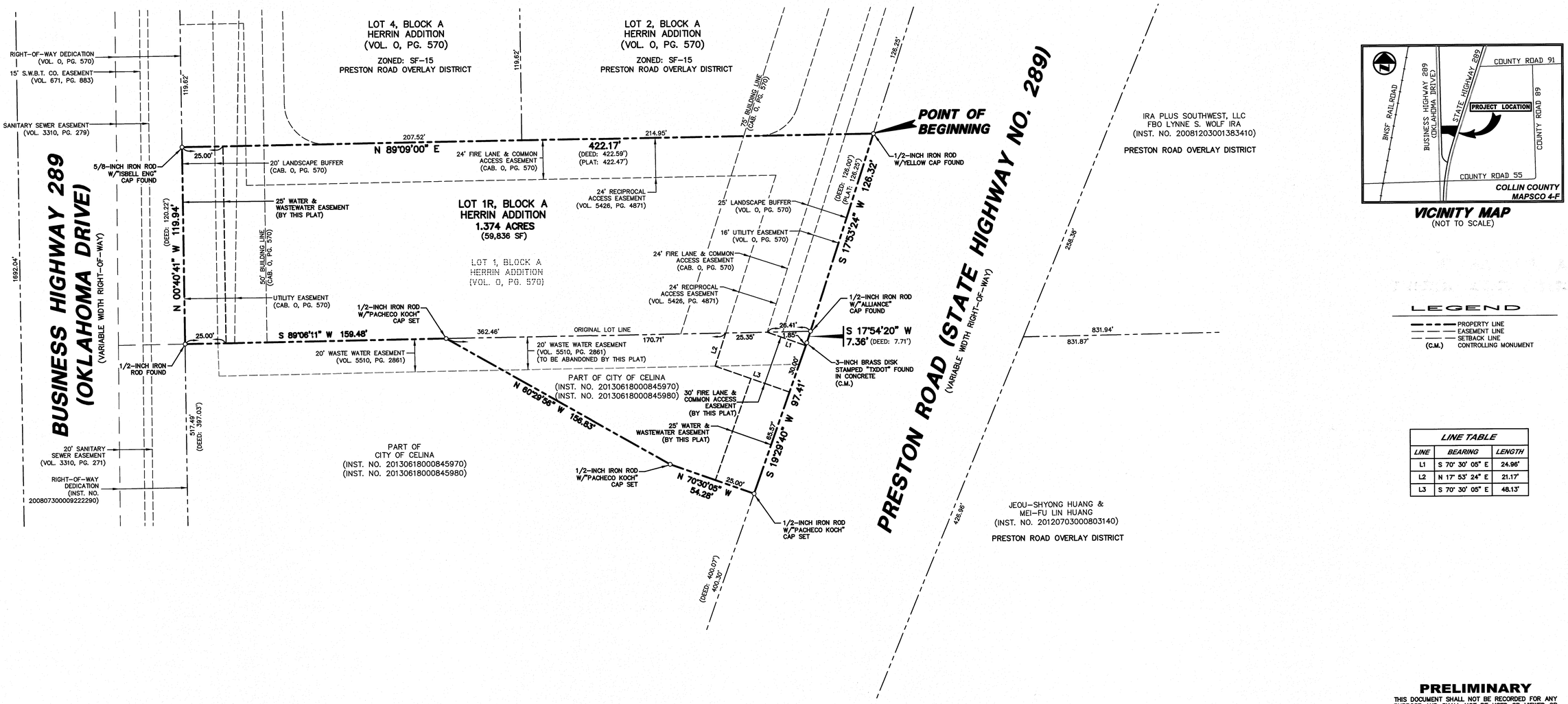

LINE TABLE		
LINE	BEARING	LENGTH
L1	S 70° 30' 05" E	24.96'
L2	N 17° 53' 24" E	21.17'
L3	S 70° 30' 05" E	48.13'

PRELIMINARY

THIS DOCUMENT SHALL NOT BE RECORDED FOR ANY PURPOSE AND SHALL NOT BE USED OR VIEWED OR RELIED UPON AS A FINAL SURVEY DOCUMENT. RELEASED 7/25/14.

REPLAT

LOT 1R, BLOCK A HERRIN ADDITION

LOCATED IN THE CITY OF CELINA, TEXAS
BEING ALL OF LOT 1, BLOCK A, HERRIN ADDITION
AND BEING OUT OF THE
COLLIN COUNTY SCHOOL LAND SURVEY,
ABSTRACT NO. 167,
COLLIN COUNTY, TEXAS
1.374 ACRES
SHEET 1 OF 2

PURPOSE STATEMENT:

THE PURPOSE OF THIS REPLAT IS TO COMBINE PLATTED PROPERTY AND UNPLATTED PROPERTY INTO ONE LOT FOR DEVELOPMENT.

FLOOD NOTE:

Subject property is shown on the National Flood Insurance Program Flood Insurance Rate Map for Collin County, Texas and Incorporated Areas, Map No. 48085C0120J, Community-Panel No. 480133 0120 J. Map Revised: June 2, 2009. All of the subject property is shown to be located in Zone "X" on said map. Relevant zones are defined on said map as follows:

Zone "X" – Other Areas: Areas determined to be outside the 0.2% annual chance floodplain.

PACHECO KOCH CONSULTING ENGINEERS
8350 N. CENTRAL EXPWY., SUITE 1000
DALLAS, TEXAS 75206
PHONE (972) 235-3031
ATTN: MICHAEL C. CLOVER

CITY OF CELINA
142 N. OHIO STREET
CELINA, TEXAS 75009
PHONE (972) 382-2682

P-201403-01

Pacheco Koch
8350 N. CENTRAL EXPWY. SUITE 1000
DALLAS, TX 75206 972.235.3031
TX REG. ENGINEERING FIRM F-14439
TX REG. SURVEYING FIRM LS-10193805

DRAWN BY	CHECKED BY	SCALE	DATE	JOB NUMBER
MWW	MCC	1"=30'	MAY 2014	2963-13.342

DWG FILE: 2963-13.342RP.DWG
XREF FILE: CELINA TITLEBLOCK DD CONSULT.DWG

LOT 1R, BLOCK A, HERRIN ADDITION - REPLAT

JSCOTT 08/28/2014 - 4:32PM
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PROPERTY OWNER'S CERTIFICATE

STATE OF TEXAS
COUNTY OF COLLIN

WHEREAS, City of Celina is the Owner of a tract of land situated in the Collin County School Land Survey, Abstract No. 167, Collin County, Texas and being all of Lot 1, Block A, Herrin Addition, an addition to the City of Celina, Texas according to the plat recorded in Volume O, Page 570, Official Public Records of Collin County, Texas and being part of that certain tract of land described in Special Warranty Deed to the City of Celina recorded in Instrument No. 20130618000845970 and in Instrument No. 20130618000845980, both of said Official Public Records and being more particularly described as follows:

BEGINNING, at a 1/2-inch iron rod with yellow cap found for corner in the northwest right-of-way line of Preston Road (State Highway No. 289)(a variable width right-of-way); said point being the southeast corner of Lot 2, Block A of said Herrin Addition and the northeast corner of said Lot 1, Block A of said Herrin Addition;

THENCE, South 17 degrees, 53 minutes, 24 seconds West, along the said northwest line of Preston Road and the southeast line of said Lot 1, a distance of 126.32 feet to a 1/2-inch iron rod with "ALLIANCE" cap found for corner at an angle point; said point being the southeast corner of said Lot 1;

THENCE, along the said northwest line of Preston Road, the following two (2) calls:

South 17 degrees, 54 minutes, 20 seconds West, a distance of 7.36 feet to a 3-inch brass disk stamped "TXDOT" found in concrete for corner at an angle point;

South 19 degrees, 29 minutes, 40 seconds West, a distance of 97.41 feet to a 1/2-inch iron rod with "PACHECO KOCH" cap set for corner;

THENCE, departing the said northwest line of Preston Road and crossing said City of Celina tract, the following two (2) calls:

North 70 degrees, 30 minutes, 05 seconds West, a distance of 54.28 feet to a 1/2-inch iron rod with "PACHECO KOCH" cap set for corner at an angle point;

North 60 degrees, 29 minutes, 56 seconds West, a distance of 156.83 feet to a 1/2-inch iron rod with "PACHECO KOCH" cap set for corner in the south line of said Lot 1;

THENCE, South 89 degrees, 06 minutes, 11 seconds West, along the said south line of Lot 1, a distance of 159.48 feet to a 1/2-inch iron rod found for corner in the east right-of-way line of Business Highway 289 (Oklahoma Drive)(a variable width right-of-way);

THENCE, North 00 degrees, 40 minutes, 41 seconds West, along the said east line of Business Highway 289, at distance of 119.94 feet to a 5/8-inch iron rod with "ISBELL ENG" cap found for corner; said point being the southwest corner of Lot 4, Block A of said Herrin Addition;

THENCE, North 89 degrees, 09 minutes, 00 seconds East, departing the said east line of Business Highway 289 and along the north line of said Lot 1 and the south line of said Lot 4, passing at a distance of 207.52 feet the southeast corner of said Lot 4 and the southwest corner of said Lot 2, continuing along the south line of said Lot 2 for a total distance of 422.17 feet to the POINT OF BEGINNING;

CONTAINING, 59,836 square feet or 1.374 acres of land, more or less.

NOW, THEREFORE, KNOW ALL MEN BY THESE PRESENTS:

That City of Celina acting herein by and through his/her(its) duly authorized officer(s), does hereby adopt this plat designating the herein above described property as Lot 1R, Block A Herrin Addition an addition to 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 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 desiring to use or 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 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 __ day of _____, 2014.

BY:

_____
Authorized Signature of Owner

_____
Printed Name and Title

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 and seal of office, this ____ day of_____, 2014.

_____
Notary Public in and for the State of Texas
My Commission Expires On:_____

SURVEYOR'S CERTIFICATE

KNOW ALL MEN BY THESE PRESENTS:

That I, Michael C. Clover, do hereby 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.

PRELIMINARY
THIS DOCUMENT SHALL NOT BE RECORDED FOR ANY PURPOSE AND SHALL NOT BE USED OR VIEWED OR RELIED UPON AS A FINAL SURVEY DOCUMENT.
RELEASED 7/25/14.

_____
Michael C. Clover
Registered Professional Land Surveyor
Texas Registration No. 5225
mclover@pkce.com

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 Michael C. Clover, Registered Public Land Surveyor, 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 ___ day of_____, 2014.

_____
Notary Public in and for the State of Texas
My Commission Expires On: _____

STANDARD NOTES

1. 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 utilities and building permits.
2. The undersigned does hereby covenant and agree that he or she or they shall construct upon the fire lane easements, as dedicated as shown hereon, a hard surface in accordance with the City of Celina's paving standards for fire lane, and that he or she or they 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 accessibility 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 parking regulations within the fire lanes, and to cause such fire lanes and utility easements to be maintained free and unobstructed at all times for Fire Department and emergency use.
3. The undersigned does 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.
4. The area or areas shown on the plat as "VAM" (Visibility, Access and Maintenance) Easement(s) are hereby given and granted to the city, its successors and assigns, as an easement to provide visibility, right of access for maintenance upon and across said VAM Easement. The city shall have the right but not the obligation to maintain any and all landscaping within the VAM Easement. Should the city exercise this maintenance right, then is shall be permitted to remove and dispose of any and all landscaping improvements, including without limitation, any trees, shrubs, flowers, ground cover and fixtures. The city may withdraw maintenance of the VAM Easement at any time. The ultimate maintenance responsibility for the VAM Easement shall rest with the owners. No building, fence, shrub, tree or other improvements or growths, which in any way may endanger or interfere with the visibility, shall be constructed in, on, over, or across the VAM Easement. The city shall also have the right but not the obligation to add any landscape improvements to the VAM Easement, to erect any traffic control devices or signs on the VAM Easement and to remove any obstruction thereon. The city, its successors, assigns, or agents shall have the right and privilege at all times to enter upon the VAM Easement or any part thereof for the purposes and with all rights and privileges set forth herein.

PROPERTY LOCATION STATEMENT:

This property is located in the corporate limits of the City of Celina, Collin County, Texas.

_____ _____
Signature of Mayor Date of Approval

ATTEST:

_____ _____
City Secretary Date

APPROVAL BLOCK

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

GENERAL NOTES

1. Bearing system for this survey is based on the Texas State Plane Coordinate System – NAD 83, North Central Zone 4202, based upon reference frame 2002.00 (CORS).
2. Subject property is shown on the National Flood Insurance Program Flood Insurance Rate Map for Collin County, Texas and Incorporated Areas, Map No. 48085C0120J, Community-Panel No. 480133 0120 J, Map Revised: June 2, 2009. All of the subject property is shown to be located in Zone "X" on said map. Relevant zones are defined on said map as follows:

   Zone "X" – Other Areas: Areas determined to be outside the 0.2% annual chance floodplain.
3. Square footage totals shown hereon or referenced herein are based on mathematical closures and do not necessarily represent the positional accuracy of the boundary monuments.
4. Except as specifically stated or shown on this plat, this survey does not purport to reflect any of the following which may be applicable to the subject tract: easements; building setback lines; restrictive covenants; subdivision restrictions; zoning or other land-use regulations; Agreements; Lease Agreements; and ownership title evidence.
5. Any declaration made hereon or herein is made to the original purchaser of the survey. It is not transferable to additional institutions or subsequent owners.
6. The distances shown hereon for adjoining and adjacent properties have been compiled from recorded plats and deeds, and do not necessarily represent field verified or monumented distances.
7. The easement for Waster Water utilities filed in Volume 5510, Page 2861 of the Deed Records of Collin County, Texas is abandoned by this plat instrument.

REPLAT
LOT 1R, BLOCK A HERRIN ADDITION
LOCATED IN THE CITY OF CELINA, TEXAS
BEING ALL OF LOT 1, BLOCK A, HEERIN ADDITION
AND BEING OUT OF THE
COLLIN COUNTY SCHOOL LAND SURVEY,
ABSTRACT NO. 167,
COLLIN COUNTY, TEXAS
1.374 ACRES
SHEET 2 OF 2

PACHECO KOCH CONSULTING ENGINEERS
8350 N. CENTRAL EXPWY., SUITE 1000
DALLAS, TEXAS 75206
PHONE (972) 235-3031
ATTN: MICHAEL C. CLOVER

CITY OF CELINA
142 N. OHIO STREET
CELINA, TEXAS 75009
PHONE (972) 382-2682

P-201403-01

Pacheco Koch
8350 N. CENTRAL EXPWY. SUITE 1000
DALLAS, TX 75206 972.235.3031
TX REG. ENGINEERING FIRM F-14439
TX REG. SURVEYING FIRM LS-10193805

DRAWN BY	CHECKED BY	SCALE	DATE	JOB NUMBER
MWW	MCC	NONE	MAY 2014	2963-13.342

DWG FILE: 2963-13.342RP.DWG
XREF FILE: CELINA TITLEBLOCK DD CONSULT.DWG

LOT 1R, BLOCK A, HERRIN ADDITION - REPLAT

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LOT 4, BLOCK A
HERRIN ADDITION
(VOL. O, PG. 570)

LOT 2, BLOCK A
HERRIN ADDITION
(VOL. O, PG. 570)

ONE-STORY
STONE BUILDING

N 89°09'00" E
422.17'
(DEED: 422.59')
(PLAT: 422.47')

5/8-INCH IRON ROD
W/"ISBELL ENG"
CAP FOUND

1/2-INCH IRON ROD
W/YELLOW CAP FOUND

20' LANDSCAPE BUFFER
(CAB. O, PG. 570)

24' FIRE LANE & COMMON
ACCESS EASEMENT
(CAB. O, PG. 570)

25' LANDSCAPE BUFFER
(VOL. O, PG. 570)

16' UTILITY EASEMENT
(VOL. O, PG. 570)

S 17°53'24" W 126.32'
(DEED: 126.00')
(PLAT: 126.25')

LOT 1, BLOCK A
HERRIN ADDITION
(VOL. O, PG. 570)

50' BUILDING LINE
(CAB. O, PG. 570)

75' BUILDING LINE
(CAB. O, PG. 570)

20' WASTE WATER EASEMENT
(VOL. 5510, PG. 2861)
(TO BE ABANDONED BY PLAT)

1/2-INCH IRON
ROD FOUND

1/2-INCH IRON ROD
W/"ALLIANCE"
CAP FOUND

S 17°54'20" W
7.36' (DEED: 7.71')

3-INCH BRASS DISK
STAMPED "TXDOT" FOUND
IN CONCRETE
(C.M.)

CITY OF CELINA
(INST. NO. 20130618000845970)
(INST. NO. 20130618000845980)

3.926 ACRES
(171,018 SF)

N 00°40'41" W
517.49'
(DEED: 397.03')

S 19°28'40" W
(DEED: 400.07')
400.30'

PRESTON ROAD (STATE HIGHWAY NO. 289)
(VARIABLE WIDTH RIGHT-OF-WAY)

BUSINESS HIGHWAY 289 (OKLAHOMA DRIVE)
(VARIABLE WIDTH RIGHT-OF-WAY)

1/2-INCH IRON ROD
W/YELLOW CAP FOUND
IN CONCRETE

S 89°06'25" W
236.49'
(DEED: 236.47')

1/2-INCH IRON ROD
W/"RPLS 4857"
CAP FOUND

S 89°06'25" W 9.19'
(DEED: 9.16')

1/2-INCH IRON ROD
W/"PACHECO KOCH"
CAP SET

S 17°31'30" W
16.22' (DEED: 16.23')

3-INCH ALUMINUM DISK
STAMPED "TXDOT" FOUND
IN CONCRETE
(C.M.)

186.29'

RIGHT-OF-WAY DEDICATION
(VOL. O, PG. 570)

15' S.W.B.T. CO. EASEMENT
(VOL. 671, PG. 883)

20' SANITARY SEWER EASEMENT
(VOL. 3310, PG. 279)

20' SANITARY SEWER EASEMENT
(VOL. 3310, PG. 271)

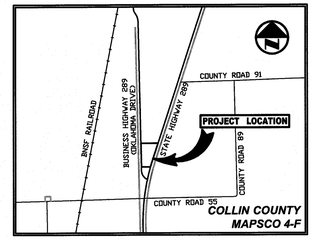
20' SANITARY SEWER EASEMENT
(VOL. 3310, PG. 283)

RIGHT-OF-WAY DEDICATION
(INST. NO. 20080730000922290)

(ABANDONED)
(APPROXIMATE LOCATION)

(APPROXIMATE LOCATION)

0 15 30 60 90
GRAPHIC SCALE IN FEET



VICINITY MAP
(NOT TO SCALE)

PRELIMINARY

THIS DOCUMENT SHALL NOT BE RECORDED FOR ANY PURPOSE AND SHALL NOT BE USED OR VIEWED OR RELIED UPON AS A FINAL SURVEY DOCUMENT. RELEASED 6/25/14.

BOUNDARY AND
TOPOGRAPHIC SURVEY

CELINA FIRE STATION

LOCATED IN THE CITY OF CELINA, TEXAS
AND BEING OUT OF THE
COLLIN COUNTY SCHOOL LAND SURVEY,
ABSTRACT NO. 167,
COLLIN COUNTY, TEXAS

Pacheco Koch
8350 N. CENTRAL EXPWY. SUITE 1000
DALLAS, TX 75206 972.235.3031
TX REG. ENGINEERING FIRM F-14439
TX REG. SURVEYING FIRM LS-10193805

DRAWN BY	CHECKED BY	SCALE	DATE	JOB NUMBER
MWW	MCC	1"=30'	11/19/2013	2963-13.342

P-201403-01

DWG FILE: 2963-13.342T.DWG
XREF FILE: CELINA TITLEBLOCK DD CONSULT.DWG

CELINA FIRE STATION - BOUNDARY AND TOPOGRAPHIC SURVEY

JSCOTT 08/28/2014 - 4:33PM
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GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST REVISION OF THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" INCLUDING
THE STANDARD DRAWINGS THEREIN AND THE CITY OF CELINA'S ADDENDUM THERETO. CONTRACTOR SHALL HAVE AT LEAST ONE SET OF APPROVED ENGINEERING PLANS AND SPECIFICATIONS ON-SITE AT ALL TIMES.

2. BEFORE BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL PREPARE A CONSTRUCTION SEQUENCE SCHEDULE.
THE CONSTRUCTION SCHEDULE SHALL BE SUCH THAT THERE IS MINIMUM INTERFERENCE WITH TRAFFIC ALONG OR
ADJACENT TO THE PROJECT.

3. CONSTRUCTION MAY NOT BEGIN EARLIER THAN 7:00 A.M. ON WEEKDAYS NOR CONTINUE AFTER DARK WITHOUT PERMISSION FROM THE CITY OF CELINA. CONSTRUCTION ON HOLIDAYS AND SATURDAY MUST BE APPROVED TWO DAYS IN ADVANCE. A FEE OF $300.00 A DAY FOR WORKING ON HOLIDAYS AND SATURDAY WILL BE ACCESSED PAYABLE TO THE CITY BEFORE WORK IS PERFORMED. WORK MAY NOT BEGIN BEFORE 8:00 A.M.ON HOLIDAYS AND SATURDAY AND WORK ON SUNDAY IS PROHIBITED WITHOUT SPECIAL PERMISSION AND PAYMENT OF FEES.

4. UTILITIES SHOWN ON THE PLANS WERE TAKEN FROM FIELD SURVEYS AND INFORMATION PROVIDED BY THE
UTILITY COMPANIES. THE COMPLETENESS AND THE ACCURACY OF THIS DATA IS NOT GUARANTEED.
THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL UNDERGROUND UTILITIES AND STRUCTURES AND PROTECTING THEM FROM DAMAGE DURING CONSTRUCTION.
IT WILL BE THE RESPONSIBILITY OF EACH CONTRACTOR TO PROTECT ALL EXISTING PUBLIC AND PRIVATE UTILITIES THROUGHOUT THE CONSTRUCTION OF THIS PROJECT. CONTRACTOR SHALL CONTACT THE APPROPRIATE UTILITY COMPANIES FOR LINE LOCATION PRIOR TO COMMENCEMENT OF CONSTRUCTION AND SHALL ASSUME FULL LIABILITY TO THOSE COMPANIES FOR ANY DAMAGES CAUSED TO THEIR FACILITIES.

DIG TESS	800-DIG-TESS
GCEC-TELECOM	903-482-7274
GCEC-ELECTRIC	903-821-3007
AT&T	972-569-3013
ATMOS ENERGY	972-881-4161
ATMOS ENERGY	214-341-9900
CROSSTEX ENERGY	817-570-6753
ONEOK	903-257-6594
COSERV-ELEC	940-321-7800
COSERV-GAS	940-321-7800
CITY OF CELINA	972-382-2682
CITY OF PROSPER	972-347-9969
MARILEE SUD	972-382-3222
GRANDE	972-410-0583
SUDDEN LINK	469-853-0486

5. WORK MAY NOT BE BACKFILLED OR COVERED UNTIL THE CITY HAS INSPECTED IT.

6. MATERIAL TESTING SHALL BE PERFORMED BY AN INDEPENDENT TESTING LABORATORY AND PAID FOR BY THE CONTRACTOR. THE FOLLOWING MATERIAL TESTS SHALL BE PROVIDED BY THE CONTRACTOR:

A. EMBANKMENT – ONE SOIL DENSITY TEST SHALL BE PERFORMED AT EACH LOCATION FOR EACH 500 C.Y. OF BACKFILL PLACED.
B. PAVEMENT SUB GRADE – ONE GRADATION TEST (WHERE LIME STABILIZED) AND ONE SOIL DENSITY TEST SHALL BE PERFORMED FOR EACH 100 LINEAR FEET OF PAVEMENT UNLESS OTHERWISE NOTED.
C. UTILITY TRENCH BACKFILL – ONE SOIL DENSITY TEST SHALL BE PERFORMED AS DIRECTED BY CITY OF CELINA.
D. CONCRETE TESTS:
(1). COMPRESSIVE STRENGTH – AS SPECIFIED IN THE N.C.T.C.O.G. SPECIFICATIONS OR CITY SPECIFICATIONS.
(2). AIR CONTENT – ONE TEST FOR EACH 25 C.Y. OF CONCRETE OR FRACTION THEREOF UNLESS OTHERWISE NOTED.
(3). SLUMP – ONE TEST FOR EACH 9 C.Y. UNLESS OTHERWISE NOTED.
THE CITY SHALL SELECT THE LOCATION AND DEPTH OF EACH SOIL DENSITY TEST UNLESS OTHERWISE DIRECTED.

7. ALL EXCAVATION ON THE PROJECT IS UNCLASSIFIED.

8. TEMPORARY EROSION CONTROL SHALL BE USED TO MINIMIZE THE SPREAD OF SILT AND MUD FROM THE PROJECT ON TO EXISTING STREETS, ALLEYS, DRAINAGE WAYS AND PUBLIC AND PRIVATE PROPERTY. TEMPORARY EROSION CONTROLS MAY INCLUDE SILT FENCES, ROCK CHECK DAMS, STABILIZED CONSTRUCTION ENTRANCES, STRAW BALES, BERMS, DIKES, SWALES, STRIPS OF UNDISTURBED VEGETATION, CHECK DAMS AND OTHER METHODS AS REQUIRED BY THE CITY MANAGER OR HIS REPRESENTATIVE AND SHALL CONFORM TO THE STORM WATER QUALITY BEST MANAGEMENT PRACTICES FOR CONSTRUCTION ACTIVITIES AS PUBLISHED BY THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS AND THE CITY OF CELINA EROSION AND SEDIMENT CONTROL MANUAL.

9. FINISHED SLOPES ON PUBLIC RIGHTS-OF-WAY AND EASEMENTS SHALL NOT BE STEEPER THAN 4:1. ALL SLOPES STEEPER THAN 6:1 SHALL BE COVERED WITH EROSION CONTROL MATTING AND ARE HYDRO MULCHED AND MAINTAINED BY THE CONTRACTOR UNTIL GRASS COVERS ALL PARTS OF THE SLOPE.

10. THE CONTRACTOR SHALL MAINTAIN TWO-WAY TRAFFIC AT ALL TIMES ALONG THE PROJECT.

11. REMOVE, SALVAGE AND REPLACE ALL STREET AND TRAFFIC CONTROL SIGNS, WHICH MAY BE DAMAGED BY THE CONSTRUCTION OF THE PROJECT.

12. ALL TRENCHING AND EXCAVATION SHALL BE PERFORMED IN ACCORDANCE WITH OSHA STANDARDS. TRENCH SAFETY DESIGN WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL SUBMIT A TRENCH SAFETY DESIGN APPROVED BY A PROFESSIONAL ENGINEER TO THE CITY FOR REVIEW PRIOR TO THE START OF ANY UNDERGROUND UTILITY CONSTRUCTION.

PAVING NOTES

1. ALL EMBANKMENTS SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY.

2. ALL STREETS AND ALLEYS SHALL BE PLACED ON LIME STABILIZED SUB GRADE WITH A LIME CONTENT OF NOT LESS THAN 7% OR AS APPROVED BY CITY ENGINEER.

3. THE MINIMUM 28 DAY COMPRESSIVE STRENGTH OF CONCRETE STREET PAVING SHALL NOT BE LESS THAN 3600 PSI AND SHALL BE AIR ENTRAINED. WATER MAY NOT BE APPLIED TO THE SURFACE OF CONCRETE PAVING TO IMPROVE WORKABILITY.

4. ALL CURB AND GUTTER SHALL BE INTEGRAL WITH THE PAVEMENT.

5. PARABOLIC CROWNS ARE REQUIRED ON ALL STREET PAVEMENTS EXCEPT ON MAJOR THOROUGHFARES WHERE STRAIGHT SECTIONS ARE REQUIRED.

6. STREETS AND ALLEYS SHALL BE CONSTRUCTED WITH PROVISIONS FOR SIDEWALK RAMPS AT ALL INTERSECTIONS.

DRAINAGE NOTES

1. STORM SEWER PIPE SHALL BE REINFORCED CONCRETE, CLASS III UNLESS OTHERWISE NOTED.

2. ALL STRUCTURAL CONCRETE SHALL BE CLASS "C" (3600 PSI COMPRESSIVE STRENGTH AT 28 DAYS), AIR ENTRAINED.

3. THE CONTRACTOR SHALL INSTALL PLUGS IN STORM SEWER LINES OR OTHERWISE PREVENT MUD FROM ENTERING THE STORM SEWER SYSTEM DURING CONSTRUCTION.

WATER AND SANITARY SEWER NOTES

1. WATER MAINS SHALL BE AWWA C-900 OR 905 PVC CLASS 200 UNLESS OTHERWISE NOTED.
MINIMUM COVER FOR WATERLINES IS 48" BELOW TOP OF CURB, 60" WHERE NO CURBED STREET IS PRESENT OR AS REQUIRED TO CLEAR EXISTING UTILITIES, WHICHEVER IS GREATER. CLASS B+ EMBEDMENT
UNLESS OTHERWISE NOTED.

2. MARKING TAPE SHALL BE INSTALLED ONE FOOT ABOVE AND OVER PVC WATER LINES.

3. FITTINGS FOR PVC WATER LINES SHALL BE DUCTILE IRON AND BE ENCASED IN A POLYETHYLENE SHEATH.

4. ALL MECHANICAL JOINTS WILL BE RESTRAINED. (MEGA-LUG ETC.)

5. VALVES, INCLUDING TAPPING VALVES SHALL BE RESILIENT SEAT GATE VALVES, UNLESS NOTED OTHERWISE.

6. ALL DIRECT BURIAL VALVES SHALL BE PROVIDED WITH CAST IRON VALVE BOXES WITH PVC STACKS. VALVE STACKS SHALL BE VERTICAL AND CONCENTRIC WITH THE VALVE STEM. STAINLESS STEEL VALVE EXTENSIONS ARE REQUIRED ON ALL VALVES WHERE THE OPERATING NUT IS GREATER THAN 4 FEET BELOW FINISHED GRADE.

7. FIRE HYDRANTS SHALL BE WATEROUS OR EQUAL AS DIRECTED OR APPROVED BY THE CITY OF CELINA ON A CASE BY CASE BASIS AND FIELD PAINTED SILVER WITH BONNET AND CAPS COLOR-CODED TO PIPE SIZE.
A. SIX INCH LINE- SILVER BODY WITH RED BONNET AND CAPS.
B. EIGHT INCH LINE- SILVER BODY WITH BLUE BONNET AND CAPS.
C. TEN INCH LINE- SILVER BODY WITH GREEN BONNET AND CAPS.
D. TWELVE INCH AND LARGER- SILVER BODY WITH YELLOW BONNET AND CAPS.

8. ALL EXPOSED BOLTING ON ANY BURIED EQUIPMENT OR MATERIAL SHALL BE STAINLESS STEEL. INCLUDED ARE:
A. BONNET AND STUFFING BOX BOLTS ON VALVES.
B. SHOE BOLTS ON FIRE HYDRANTS.
C. FLANGE BOLTS.
D. "COR-TEN" MECHANICAL JOINT "T" BOLTS ARE ACCEPTABLE FOR DIRECT BURIAL SERVICE.

9. METER BOXES SHALL APPROVED BY THE CITY OF CELINA.

10. SANITARY SEWER MAINS SHALL BE DR 35 PVC. CLASS H EMBEDMENT UNLESS OTHERWISE NOTED.
A.THE CONTRACTOR SHALL INSTALL AND MAINTAIN WATERTIGHT PLUGS IN ALL CONNECTIONS TO THE CITY'S SANITARY SEWER SYSTEM UNTIL THE CITY ACCEPTS THE PROJECT.
B.ALL SANITARY SEWER LINES AND MANHOLES SHALL BE LEAK TESTED BEFORE THE PROJECT IS ACCEPTED. DEFLECTION TESTING OF PVC SEWER LINES IS REQUIRED.

11. VERIFY EXISTING SANITARY INVERT ELEVATIONS PRIOR TO TRENCHING AND ADJUST WATER LINE ELEVATIONS AS REQUIRED TO AVOID CONFLICTS AT CROSSING POINTS

NO.	DATE	REVISION

Pacheco Koch
DALLAS • FORT WORTH • HOUSTON
8350 N. CENTRAL EXPWY. SUITE 1000
DALLAS, TX 75206 972.235.3031
TX REG. ENGINEERING FIRM F-469
TX REG. SURVEYING FIRM LS-100080-00

STATE OF TEXAS
CHRISTOPHER M. JONES
82681
LICENSED
PROFESSIONAL ENGINEER

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY CHRISTOPHER M. JONES, P.E. 82681 ON 08/29/2014. ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT.

P-201403-01

CITY OF CELINA GENERAL NOTES

CELINA FIRE STATION NO.1

PRESTON ROAD AND OKLAHOMA DRIVE

CITY OF CELINA

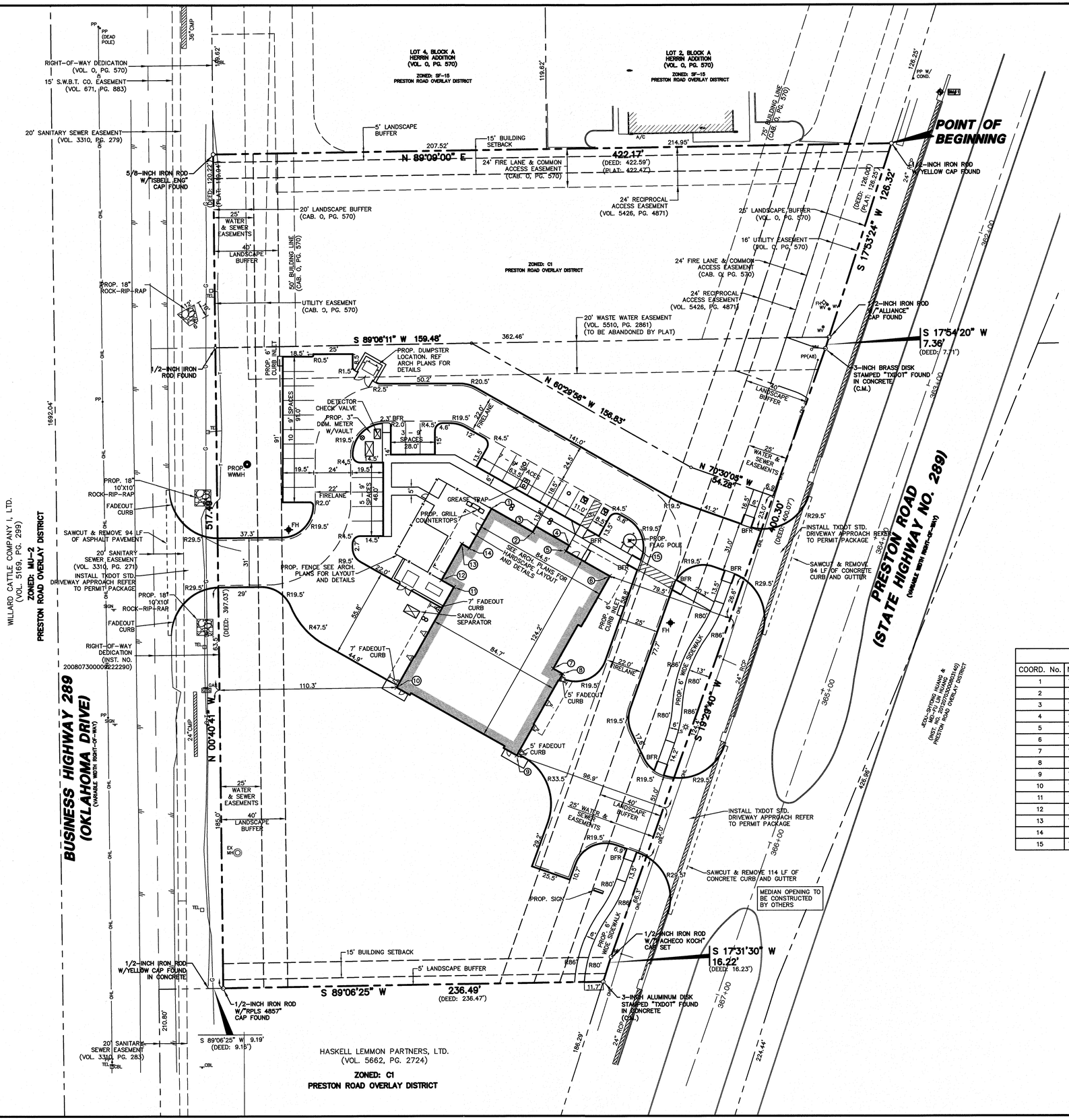
COLLIN COUNTY, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
LHN	JHB	AUG 2014	NTS			C1.1

PK FILE: 2963-13.342

DWG FILE: 2963-13.342CV.DWG
XREF FILE: 2963-13.342SU.DWG

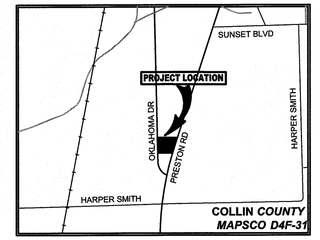
CELINA FIRE STATION NO.1 - P-201403-01



LEGEND

B.	BOLLARD	TELE	TELEPHONE BOX
EM	ELECTRIC METER	FL	FLOOD LIGHT
PP	POWER POLE	FP	FLAG POLE
LS	LIGHT STANDARD	SIGN	TRAFFIC SIGN
WM	WATER METER	IRS	1/2-INCH IRON ROD W/"PACHECO KOCH" CAP SET
WV	WATER VALVE	(C.M.)	CONTROLLING MONUMENT
ICV	IRRIGATION CONTROL VALVE		PROPERTY LINE
FH	FIRE HYDRANT	X	FENCE
CO	CLEANOUT	OHL	OVERHEAD UTILITY LINE
MH	MANHOLE	BFR	BARRIER FREE RAMP
TSC	TRAFFIC SIGNAL CONTROL		
TSP	TRAFFIC SIGNAL POLE		

0 15 30 60 90
GRAPHIC SCALE IN FEET



VICINITY MAP
(NOT TO SCALE)

GENERAL NOTES

1. ALL WORK, UNLESS OTHERWISE NOTED, SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION ISSUED BY THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS AND THE CITY OF CELINA STANDARD CONSTRUCTION SPECIFICATIONS.
2. PRIOR TO ANY CONSTRUCTION, THE CONTRACTOR SHALL BE FAMILIAR WITH THE PLANS, ALL NOTES, THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION ISSUED BY THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS, THE CITY STANDARDS FOR CONSTRUCTION, AND ANY OTHER APPLICABLE STANDARDS AND SPECIFICATIONS RELEVANT TO THE PROPER COMPLETION OF THE WORK SPECIFIED. FAILURE ON THE PART OF THE CONTRACTOR TO BE FAMILIAR WITH ALL STANDARDS AND SPECIFICATIONS PERTAINING TO THIS WORK SHALL IN NO WAY RELIEVE THE CONTRACTOR OF RESPONSIBILITY OF PERFORMING THE WORK IN ACCORDANCE WITH ALL SUCH APPLICABLE STANDARDS AND SPECIFICATIONS.
3. THE HORIZONTAL AND VERTICAL LOCATIONS OF EXISTING SUBSURFACE UTILITIES HAVE BEEN DETERMINED FROM DATA RECORDED BY OTHERS. CONTRACTOR SHALL VERIFY THAT NECESSARY CROSSING CLEARANCES BETWEEN EXISTING AND PROPOSED UTILITIES EXIST PRIOR TO CONSTRUCTION OF ANY SUCH CROSSINGS. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL UTILITIES IN THE CONSTRUCTION OF THIS PROJECT. CONTRACTOR TO VERIFY SIZE AND LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
4. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL MANHOLES, CLEANOUTS, VALVE BOXES, AND FIRE HYDRANTS, ETC.. CONTRACTOR TO ADJUST TO PROPER LINE AND GRADE PRIOR TO AND AFTER THE PLACING OF PERMANENT PAVING AND GRADING. UTILITIES MUST BE MAINTAINED TO PROPER LINE AND GRADE DURING THE CONSTRUCTION OF THE PAVING FOR THIS DEVELOPMENT.
5. 5.A PROTECT AND MAINTAIN ROADWAY TRAFFIC THROUGHOUT THE PROJECT, PROVIDING A MINIMUM OF ONE (1) LANE OPEN IN EACH DIRECTION;
   5.B PROVIDE AND MAINTAIN INTERIM ACCESS FROM ROADWAYS CURRENTLY IN USE TO ALL DRIVEWAYS AND INTERSECTING STREETS OR ALLEYS;
   5.C MAINTAIN NORMAL PROJECT DRAINAGE UNTIL NEW DRAINAGE FACILITIES ARE FUNCTIONAL, INCLUDING, WHERE NECESSARY, INTERIM REPLACEMENT OF EXISTING DRAINAGE STRUCTURES REMOVED FOR CONSTRUCTION OF NEW DRAINAGE FACILITIES;
   5.D MAINTAIN ALL WORK AND MATERIAL STORAGE AREAS IN ORDERLY CONDITION, FREE OF DEBRIS AND WASTE. ON COMPLETION OF CONSTRUCTION, CLEAN UP THE PROJECT AND ADJACENT AFFECTED AREAS TO ACCEPTABLE CONDITION, ALL AS PROVIDED IN THE GENERAL CONDITIONS.
6. PRIOR TO COMMENCEMENT OF CONSTRUCTION, BONDS AND THREE-WAY CONTRACTS SHALL BE SUBMITTED TO THE CITY AS REQUIRED.
7. THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS REGARDING TRENCH SAFETY.
8. REFER TO ARCHITECTURAL AND STRUCTURAL PLANS TO VERIFY ALL BUILDING DIMENSIONS.
9. REFER TO ARCHITECTURAL PLANS FOR DETAILED BUILDING ENTRANCE LAYOUTS, RAMPS, LANDSCAPE, AND SIDEWALKS.
10. BARRICADING AND PROJECT SIGNS SHALL CONFORM TO TEXAS DEPARTMENT OF TRANSPORTATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND LATEST UPDATES.
11. EXACT SAWCUT PAVEMENT REMOVAL AND REPLACEMENT LIMITS WITHIN THE PUBLIC RIGHT-OF-WAY IS TO BE IN ACCORDANCE WITH THE CITY PAVEMENT REPAIR MANUAL AND INCLUDED IN THE BASE BID.

ANY CONFLICT BETWEEN THESE GENERAL NOTES AND THE CITY OF CELINA GENERAL NOTES LOCATED ON SHEET C1.1, CITY OF CELINA NOTES WILL SUPERCEDE

COORDINATE TABLE

COORD. No.	NORTHING	EASTING	DESCRIPTION
1	7164405.59	2493350.42	BUILDING CORNER
2	7164391.07	2493376.09	BUILDING CORNER
3	7164394.55	2493378.06	BUILDING CORNER
4	7164382.86	2493398.72	BUILDING CORNER
5	7164379.35	2493396.74	BUILDING CORNER
6	7164363.93	2493423.98	BUILDING CORNER
7	7164306.42	2493388.79	BUILDING CORNER
8	7164303.10	2493394.67	BUILDING CORNER
9	7164252.48	2493366.03	BUILDING CORNER
10	7164294.79	2493291.33	BUILDING CORNER
11	7164357.10	2493327.00	BUILDING CORNER
12	7164361.45	2493319.31	BUILDING CORNER
13	7164383.82	2493331.97	BUILDING CORNER
14	7164381.19	2493336.61	BUILDING CORNER
15	7164385.82	2493436.36	FLAG POLE

NO.	DATE	REVISION

Pacheco Koch
DALLAS ▪ FORT WORTH ▪ HOUSTON
8350 N. CENTRAL EXPWY. SUITE 1000
DALLAS, TX 75206 972.235.3031
TX REG. ENGINEERING FIRM F-469
TX REG. SURVEYING FIRM LS-100080-00

DIMENSIONAL CONTROL PLAN

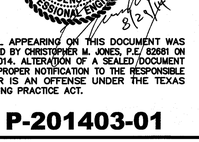
CELINA FIRE STATION NO.1

PRESTON ROAD AND OKLAHOMA DRIVE

CITY OF CELINA

COLLIN COUNTY, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
LHN	JHB	AUG 2014	1"=30'			C1.2



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P-201403-01

PK FILE: 2963-13.342

DWG FILE: 2963-13.342CV.DWG
XREF FILE: 2963-13.342SU.DWG

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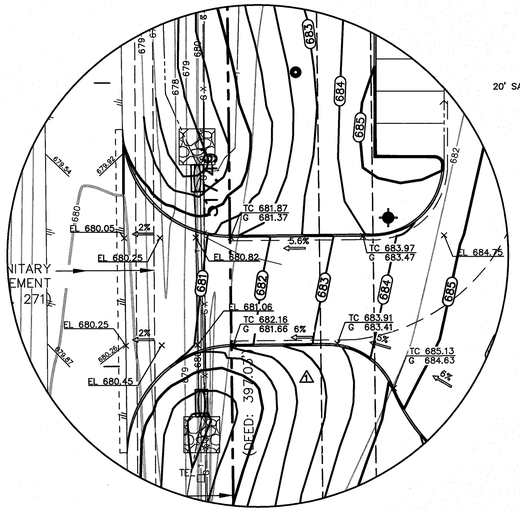
CELINA FIRE STATION NO.1 - P-201403-01

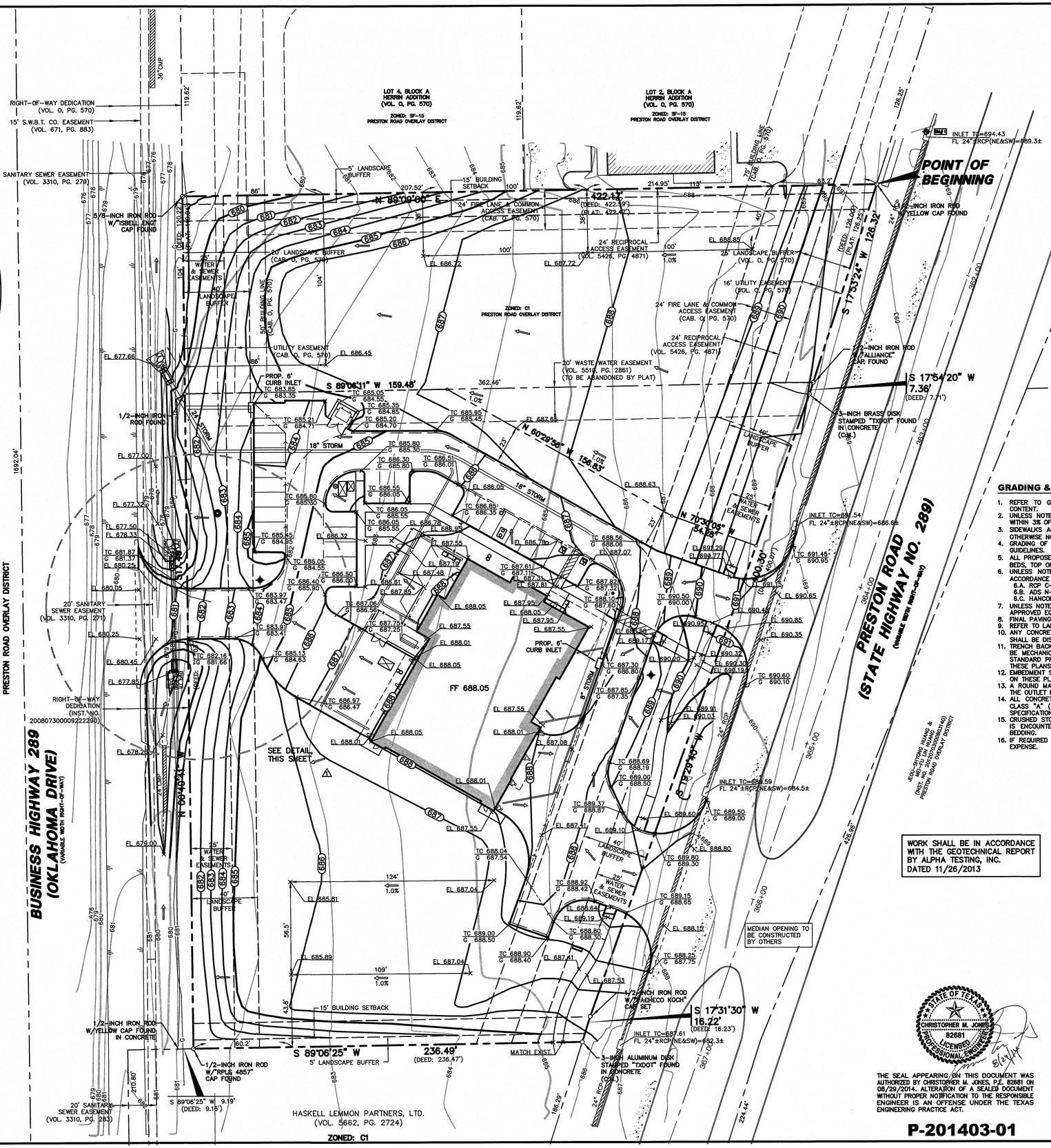


GRADING DETAIL

SCALE: 1"=20"

BENCH MARK LIST

TXDOT MON	TXDOT 2" BRASS DISK FOUND IN CONCRETE STAMPED "TXDOT GPS D0430066" LOCATED APPROXIMATELY 50' NORTH OF THE INTERSECTION OF S.H. 289 AND F.M. 455. ELEV=719.81
TXDOT MON	TXDOT 2" BRASS DISK FOUND IN CONCRETE STAMPED "TXDOT GPS D0430046" LOCATED APPROXIMATELY 150' EAST OF THE INTERSECTION OF S.H. 289 AND F.M. 1461. ELEV=735.69
BM# 1	" □ " CUT SET ON CONCRETE CURB INLET IN FRONT OF 1341 PRESTON ROAD (S.H. 289), 1000'± NORTH OF BUSINESS 289 ON WEST SIDE OF PRESTON ROAD. ELEV=694.55
BM# 2	" □ " CUT SET ON CONCRETE CURB INLET, 350'± NORTH OF BUSINESS 289 ON WEST SIDE OF PRESTON ROAD. ELEV=684.92



0 15 30 60 90

GRAPHIC SCALE IN FEET

LEGEND

- B. BOLLARD
- EM. ELECTRIC METER
- PP. POWER POLE
- LS. LIGHT STANDARD
- WM. WATER METER
- WV. WATER VALVE
- ICV. IRRIGATION CONTROL VALVE
- FH. FIRE HYDRANT
- CO. CLEANOUT
- MH. MANHOLE
- TSC. TRAFFIC SIGNAL CONTROL
- TSP. TRAFFIC SIGNAL POLE
- TELE. TELEPHONE BOX
- FLOOD LIGHT
- FP. FLAG POLE
- SIGN. TRAFFIC SIGN
- IRS 1/2-INCH IRON ROD W/"PACHECO KOCH" CAP SET
- (C.M.) CONTROLLING MONUMENT
- PROPERTY LINE
- X FENCE
- OHE OVERHEAD UTILITY LINE
- 613 EXIST CONTOUR
- 612.39 EXIST SPOT ELEVATION
- TC 612.39 / G 611.92 EXIST TOP OF CURB ELEVATION / EXIST GUTTER ELEVATION
- 571 PROPOSED CONTOUR
- TC 614.50 / G 614.00 PROPOSED TOP OF CURB ELEVATION / PROPOSED GUTTER ELEVATION
- EL 614.50 PROPOSED SPOT ELEVATION
- PROPOSED DRAINAGE FLOW DIRECTION
- PROPOSED SWALE

GRADING & DRAINAGE GENERAL NOTES

1. REFER TO GEOTECHNICAL REPORT FOR REQUIREMENTS REGARDING FILL COMPACTION AND MOISTURE CONTENT.
2. UNLESS NOTED, ALL FILL IS TO BE COMPACTED TO A MINIMUM OF 95% STANDARD PROCTOR DENSITY WITHIN 3% OF OPTIMUM MOISTURE CONTENT. FILL TO BE PLACED IN MAXIMUM LIFTS OF 6 INCHES.
3. SIDEWALKS AND ACCESSIBLE ROUTES SHALL HAVE A RUNNING SLOPE NO GREATER THAN 5% (UNLESS OTHERWISE NOTED) AND A CROSS SLOPE NO GREATER THAN 2%.
4. GRADING OF ALL HANDICAPPED SPACES AND ROUTES TO CONFORM TO FEDERAL, STATE, AND LOCAL GUIDELINES.
5. ALL PROPOSED AND EXISTING GRADES IN NON-PAVED AREAS ARE "FINISHED GRADE" (i.e. IN LANDSCAPE BEDS, TOP OF MULCH/BEDDING MATERIAL).
6. UNLESS NOTED, STORM DRAIN LINES SHALL BE OF THE FOLLOWING MATERIALS AND INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS:
   6.A. RCP C-76, CLASS III
   6.B. ADS N-12
   6.C. HANCOR HI-Q
7. UNLESS NOTED, GRATE INLETS TO BE "HANSON PIPE AND PRECAST" CATCH BASIN SIZED AS SHOWN, OR APPROVED EQUAL.
8. FINAL PAVING, CURB, AND SIDEWALK ELEVATIONS WILL BE PLACED AT PLUS OR MINUS 0.03 FOOT.
9. REFER TO LANDSCAPE SPECIFICATIONS FOR SEEDING AND SODDING REQUIREMENTS.
10. ANY CONCRETE, ROCK, OR MATERIAL DEEMED BY THE ENGINEER TO BE UNSUITABLE FOR SUBGRADE SHALL BE DISPOSED OF OFFSITE AT CONTRACTOR'S EXPENSE.
11. TRENCH BACKFILL MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF NCTCOG ITEM 504.2 AND SHALL BE MECHANICALLY COMPACTED IN 8-INCH LIFTS TO THE TOP OF SUBGRADE TO A MINIMUM OF 95% STANDARD PROCTOR DENSITY IN ACCORDANCE WITH NCTCOG ITEM 504.5 UNLESS OTHERWISE SHOWN ON THESE PLANS OR STATED IN THE STANDARD CITY SPECIFICATIONS.
12. EMBEDMENT SHALL CONFORM TO THE REQUIREMENTS OF NCTCOG ITEM 504.5 UNLESS OTHERWISE SHOWN ON THESE PLANS OR STATED IN THE STANDARD CITY SPECIFICATIONS.
13. A ROUND MANHOLE COVER MEETING CITY SPECIFICATIONS SHALL BE PLACED IN ALL INLET TOPS NEAR THE OUTLET PIPE.
14. ALL CONCRETE FOR INLETS AND DRAINAGE STRUCTURES SHALL CONFORM TO NCTCOG ITEM 702.2.4, CLASS "A" (3000 PSI) UNLESS OTHERWISE SHOWN ON THESE PLANS OR STATED IN STANDARD CITY SPECIFICATIONS.
15. CRUSHED STONE BEDDING OR APPROVED EQUAL SHALL BE PROVIDED BY THE CONTRACTOR WHEN ROCK IS ENCOUNTERED IN TRENCHES. THERE SHALL BE NO ADDITIONAL PAY ITEM FOR CRUSHED STONE BEDDING.
16. IF REQUIRED DUE TO CONSTRUCTION, POWER POLES TO BE BRACED OR RELOCATED AT CONTRACTOR'S EXPENSE.

ANY CONFLICT BETWEEN THESE GENERAL NOTES AND THE CITY OF CELINA GENERAL NOTES LOCATED ON SHEET C1.1, CITY OF CELINA NOTES WILL SUPERCEDE

WORK SHALL BE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT BY ALPHA TESTING, INC. DATED 11/26/2013

NO.	DATE	REVISION

Pacheco Koch
DALLAS • FORT WORTH • HOUSTON
8350 N. CENTRAL EXPWY. SUITE 1000
DALLAS, TX 75206 972.235.3031
TX REG. ENGINEERING FIRM F-469
TX REG. SURVEYING FIRM LS-100080-00

GRADING PLAN

CELINA FIRE STATION NO.1

PRESTON ROAD AND OKLAHOMA DRIVE

CITY OF CELINA

COLLIN COUNTY, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
LHN	JHB	AUG 2014	1"=30'			C2.1

STATE OF TEXAS — CHRISTOPHER M. JONES — 82681 — LICENSED PROFESSIONAL ENGINEER — 8/22/14

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P-201403-01

PK FILE: 2963-13.342

DWG FILE: 2963-13.342GR.DWG
XREF FILE: 2963-13.342BA.DWG

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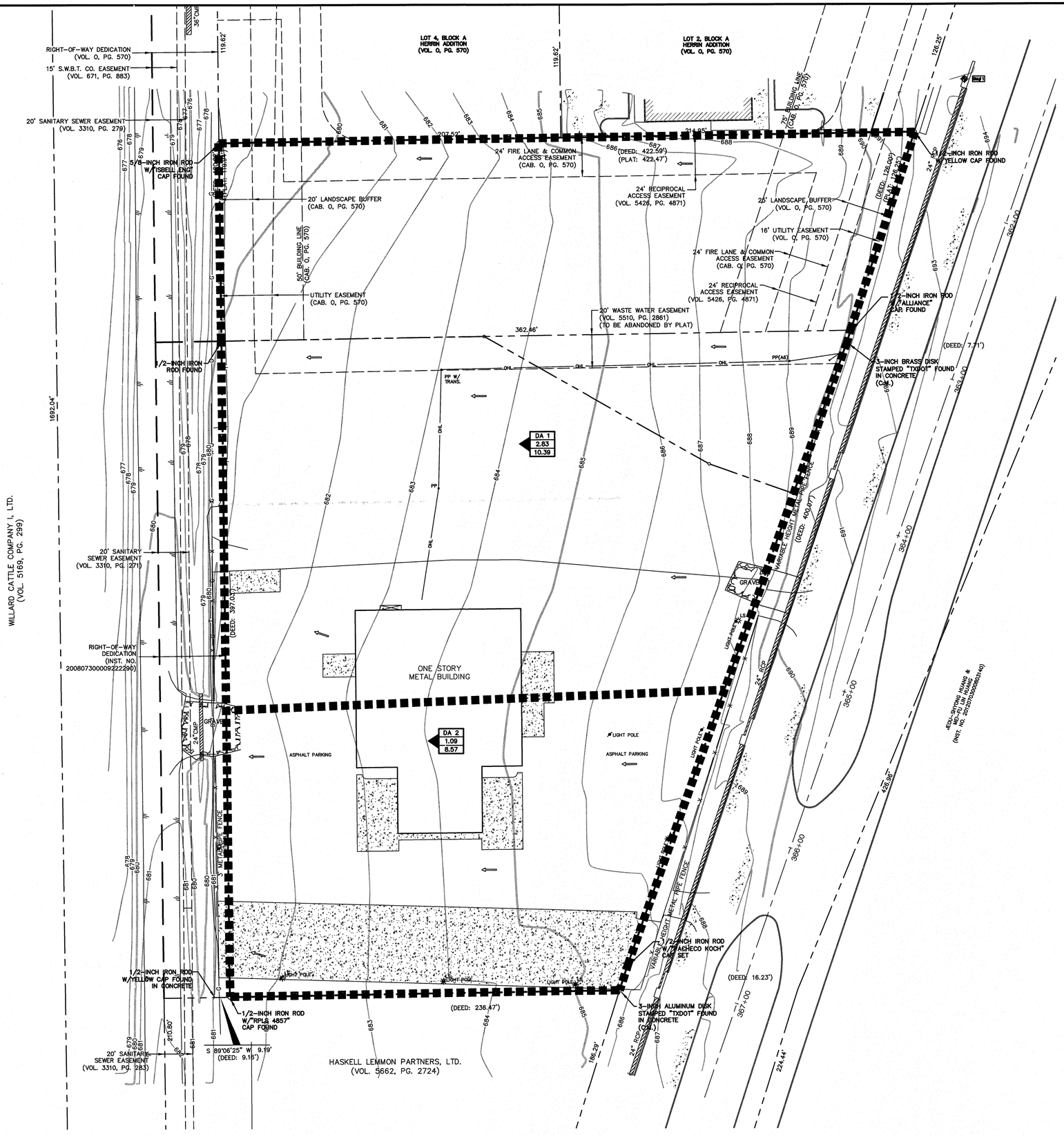

0 15 30 60 90

GRAPHIC SCALE IN FEET

LEGEND

- B. BOLLARD
- EM ELECTRIC METER
- PP POWER POLE
- LS LIGHT STANDARD
- WM WATER METER
- WV WATER VALVE
- ICV IRRIGATION CONTROL VALVE
- FH FIRE HYDRANT
- CO CLEANOUT
- MH MANHOLE
- TSC TRAFFIC SIGNAL CONTROL
- TSP TRAFFIC SIGNAL POLE
- TELE TELEPHONE BOX
- FL FLOOD LIGHT
- FP FLAG POLE
- SIGN TRAFFIC SIGN

- PROPERTY LINE
- x FENCE
- PROPOSED DRAINAGE DIVIDE
- 571 PROPOSED CONTOUR
- PROPOSED DRAINAGE FLOW DIRECTION
- DA A / 1.09 / 8.71 EXISTING DRAINAGE AREA ID, AREA IN ACRES, Q100 IN CUBIC FEET PER SECOND

EXISTING DRAINAGE CRITERIA:

Q=(C)(I)(A)

DRAINAGE AREA TABLE

DRAINAGE AREA ID	AREA (acres)	C	Tc (minutes)	STORM FREQUENCY	I_{100} (inch/hour)	Q_{100} (cfs)	COMMENTS
DA 1	2.83	0.42	10	100	8.74	10.39	DRAINS TO EX. DITCH AT OKLAHOMA DRIVE
DA 2	1.09	0.90	10	100	8.74	8.57	DRAINS TO EX. DITCH AT OKLAHOMA DRIVE

PRE-DEVELOPED TOTAL AREA = 171,018 SF
PRE-DEVELOPED IMPERVIOUS AREA = 71,603 SF, 41.9% OF TOTAL AREA
PRE-DEVELOPED PERVIOUS AREA = 99,415 SF, 58.1% OF TOTAL AREA

BENCH MARK LIST

TXDOT MON	TXDOT 2" BRASS DISK FOUND IN CONCRETE STAMPED "TXDOT GPS D0430066" LOCATED APPROXIMATELY 50' NORTH OF THE INTERSECTION OF S.H. 289 AND F.M. 455. ELEV=719.81
TXDOT MON	TXDOT 2" BRASS DISK FOUND IN CONCRETE STAMPED "TXDOT GPS D0430046" LOCATED APPROXIMATELY 150' EAST OF THE INTERSECTION OF S.H. 289 AND F.M. 1461. ELEV=735.69
BM# 1	" □ " CUT SET ON CONCRETE CURB INLET IN FRONT OF 1341 PRESTON ROAD (S.H. 289), 1000'± NORTH OF BUSINESS 289 ON WEST SIDE OF PRESTON ROAD. ELEV=694.55
BM# 2	" □ " CUT SET ON CONCRETE CURB INLET, 350'± NORTH OF BUSINESS 289 ON WEST SIDE OF PRESTON ROAD. ELEV=684.92

NO.	DATE	REVISION

Pacheco Koch
DALLAS ▪ FORT WORTH ▪ HOUSTON
8350 N. CENTRAL EXPWY. SUITE 1000
DALLAS, TX 75206 972.235.3031
TX REG. ENGINEERING FIRM F-469
TX REG. SURVEYING FIRM LS-100080-00

EXISTING DRAINAGE AREA MAP

CELINA FIRE STATION NO.1

PRESTON ROAD AND OKLAHOMA DRIVE

CITY OF CELINA

COLLIN COUNTY, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
LHN	JHB	AUG 2014	1"=30'			C3.1

STATE OF TEXAS
CHRISTOPHER M. JONES
82681
LICENSED
PROFESSIONAL ENGINEER
5/29/14

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P-201403-01

PK FILE: 2963-13.342

DWG FILE: 2963-13.342E-DM.DWG
XREF FILE: 2963-13.342SU.DWG

CELINA FIRE STATION NO.1 - P-201403-01

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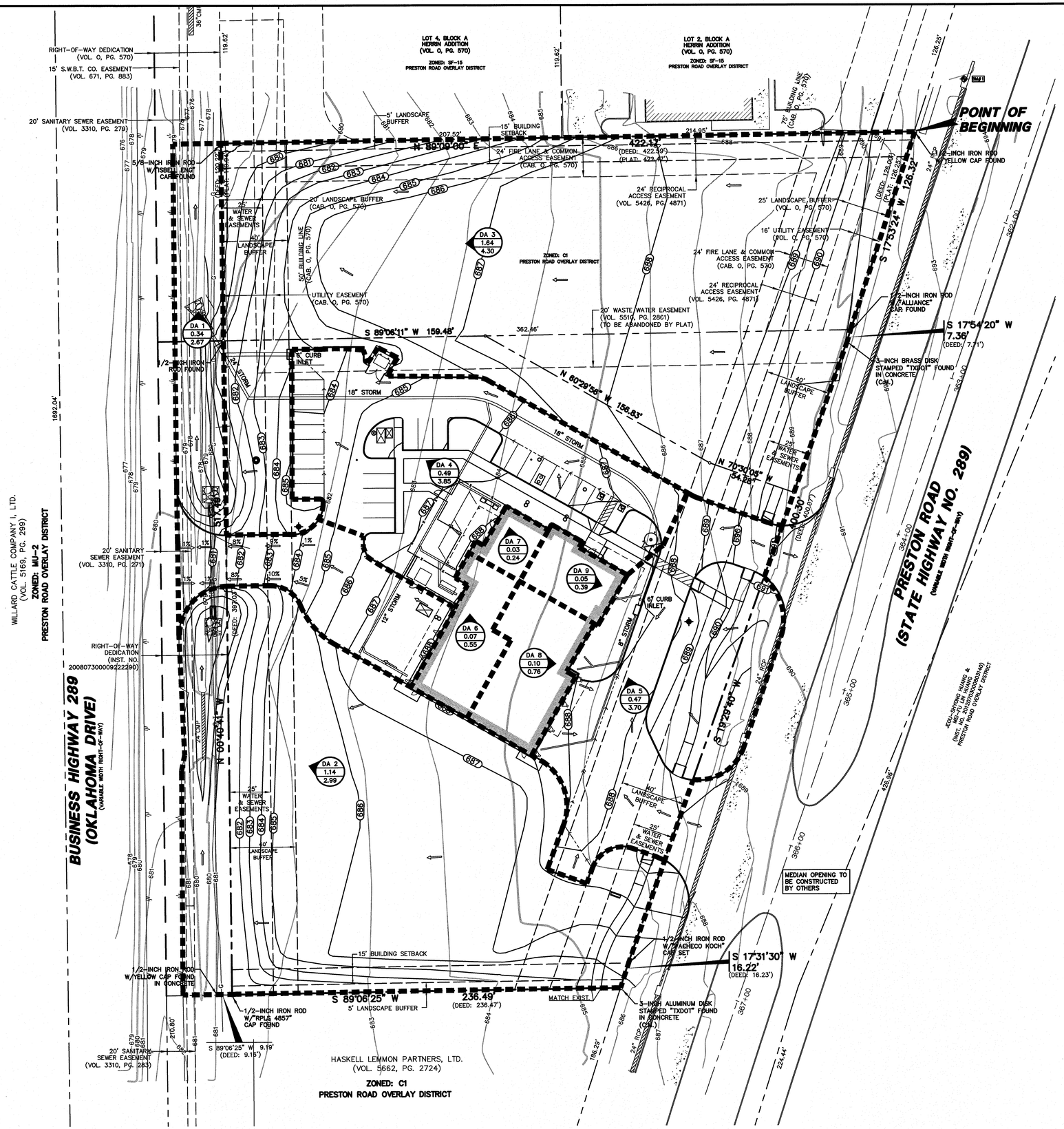

0 15 30 60 90

GRAPHIC SCALE IN FEET

LEGEND

- B. BOLLARD
- EM ELECTRIC METER
- PP POWER POLE
- LS LIGHT STANDARD
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- TSP TRAFFIC SIGNAL POLE
- TELE TELEPHONE BOX
- FL FLOOD LIGHT
- FP FLAG POLE
- SIGN TRAFFIC SIGN

- PROPERTY LINE
- FENCE
- PROPOSED DRAINAGE DIVIDE
- 571 PROPOSED CONTOUR
- PROPOSED DRAINAGE FLOW DIRECTION
- DA 7 / 1.09 / 8.71 PROPOSED DRAINAGE AREA ID, AREA IN ACRES, Q100 IN CUBIC FEET PER SECOND

PROPOSED DRAINAGE CRITERIA:

$Q=(C)(I)(A)$

DRAINAGE AREA TABLE

DRAINAGE AREA ID	AREA (acres)	C	Tc (minutes)	STORM FREQUENCY	I_{100} (inch/hour)	Q_{100} (cfs)	COMMENTS
DA 1	0.34	0.90	10	100	8.74	2.67	DRAINS TO DITCH @ OKLAHOMA DRIVE
DA 2	1.14	0.30	15	100	8.74	2.99	DRAINS TO PROP. CULVERT
DA 3	1.64	0.30	15	100	8.74	4.30	DRAINS TO DITCH @ OKLAHOMA DRIVE
DA 4	0.49	0.90	10	100	8.74	3.85	DRAINS TO PROP. 6' CURB INLET
DA 5	0.47	0.90	10	100	8.74	3.70	DRAINS TO PROP. 6' CURB INLET
DA 6	0.07	0.90	10	100	8.74	0.55	DRAINS TO TRENCH DRAIN
DA 7	0.03	0.90	10	100	8.74	0.24	DRAINS TO PROP. ROOF DRAIN
DA 8	0.10	0.90	10	100	8.74	0.76	DRAINS TO PROP. ROOF DRAIN
DA 9	0.05	0.90	10	100	8.74	0.39	DRAINS TO PROP. ROOF DRAIN

DEVELOPED TOTAL AREA = 171,018 SF
DEVELOPED IMPERVIOUS AREA = 50,338 SF, 29.4% OF TOTAL AREA
DEVELOPED PERVIOUS AREA = 120,680 SF, 70.6% OF TOTAL AREA

BENCH MARK LIST

TXDOT MON	TXDOT 2" BRASS DISK FOUND IN CONCRETE STAMPED "TXDOT GPS D0430066" LOCATED APPROXIMATELY 50' NORTH OF THE INTERSECTION OF S.H. 289 AND F.M. 455. ELEV=719.81
TXDOT MON	TXDOT 2" BRASS DISK FOUND IN CONCRETE STAMPED "TXDOT GPS D0430046" LOCATED APPROXIMATELY 150' EAST OF THE INTERSECTION OF S.H. 289 AND F.M. 1461. ELEV=735.69
BM# 1	" □ " CUT SET ON CONCRETE CURB INLET IN FRONT OF 1341 PRESTON ROAD (S.H. 289), 1000'± NORTH OF BUSINESS 289 ON WEST SIDE OF PRESTON ROAD. ELEV=694.55
BM# 2	" □ " CUT SET ON CONCRETE CURB INLET, 350'± NORTH OF BUSINESS 289 ON WEST SIDE OF PRESTON ROAD. ELEV=684.92

NO.	DATE	REVISION

Pacheco Koch
DALLAS ▪ FORT WORTH ▪ HOUSTON
8350 N. CENTRAL EXPWY. SUITE 1000
DALLAS, TX 75206 972.235.3031
TX REG. ENGINEERING FIRM F-469
TX REG. SURVEYING FIRM LS-100080-00

PROPOSED DRAINAGE AREA MAP

CELINA FIRE STATION NO.1

PRESTON ROAD AND OKLAHOMA DRIVE

CITY OF CELINA

COLLIN COUNTY, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
LHN	JHB	AUG 2014	1"=30'			C3.2

STATE OF TEXAS
CHRISTOPHER M. JONES
82681
LICENSED
PROFESSIONAL ENGINEER
8/29/14

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P-201403-01

PK FILE: 2963-13.342

DWG FILE: 2963-13.342DM.DWG (DIESEL evaluation failed)

CELINA FIRE STATION NO.1 - P-201403-01

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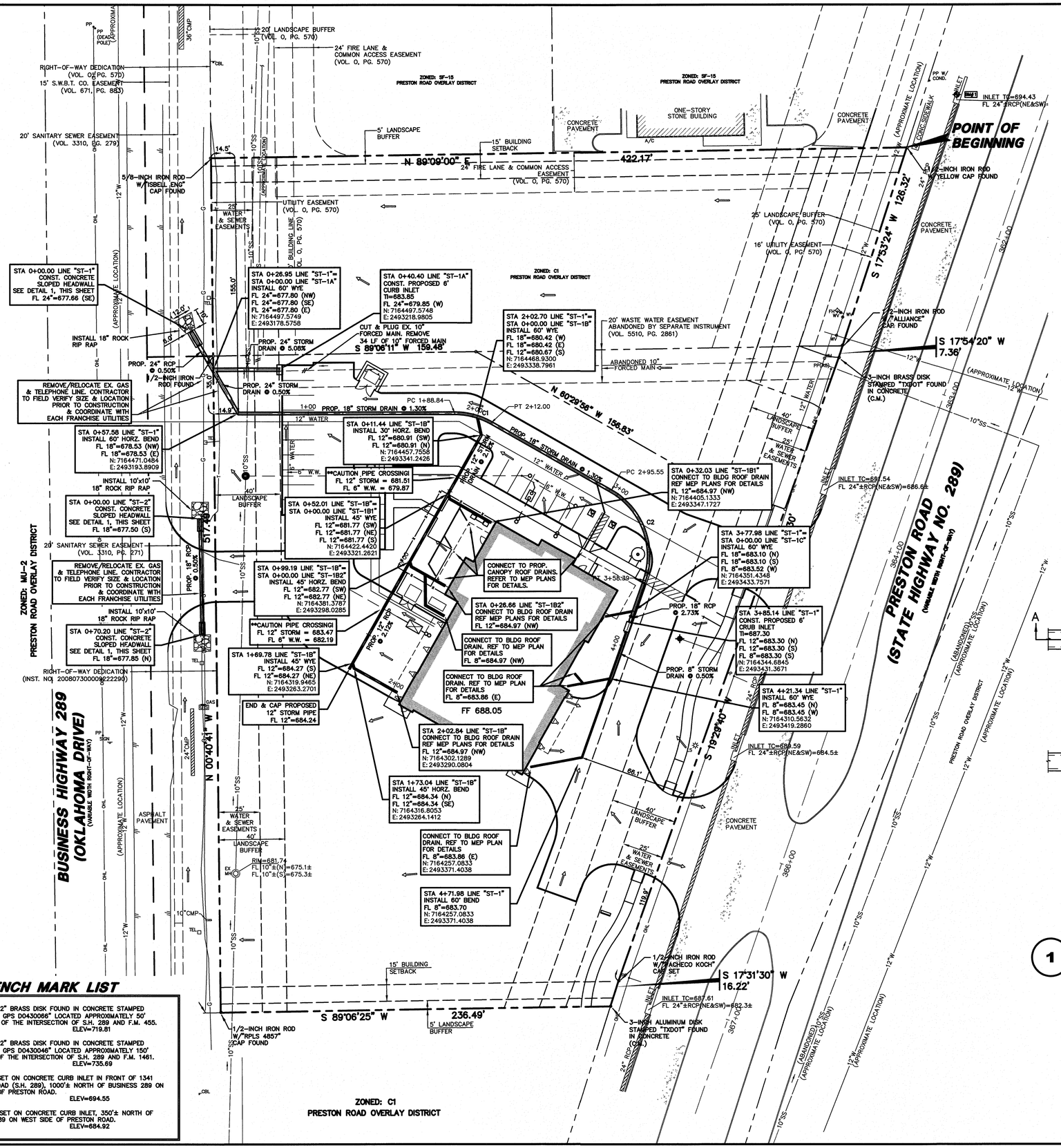

STORM SEWER CURVE DATA	
C1	C2
Δ=029°29'13"	Δ=80°00'36"
T=11.84	T=37.77
L=23.16'	L=62.84'
R=45.00'	R=45.00'

BENCH MARK LIST

TXDOT MON	TXDOT 2" BRASS DISK FOUND IN CONCRETE STAMPED "TXDOT GPS D0430086" LOCATED APPROXIMATELY 50' NORTH OF THE INTERSECTION OF S.H. 289 AND F.M. 455. ELEV=719.81
TXDOT MON	TXDOT 2" BRASS DISK FOUND IN CONCRETE STAMPED "TXDOT GPS D0430046" LOCATED APPROXIMATELY 150' EAST OF THE INTERSECTION OF S.H. 289 AND F.M. 1461. ELEV=735.69
BM# 1	" □ " CUT SET ON CONCRETE CURB INLET IN FRONT OF 1341 PRESTON ROAD (S.H. 289), 1000'± NORTH OF BUSINESS 289 ON WEST SIDE OF PRESTON ROAD. ELEV=694.55
BM# 2	" □ " CUT SET ON CONCRETE CURB INLET, 350'± NORTH OF BUSINESS 289 ON WEST SIDE OF PRESTON ROAD. ELEV=684.92

0 15 30 60 90

GRAPHIC SCALE IN FEET

LEGEND

B.	BOLLARD
EM	ELECTRIC METER
PP	POWER POLE
LS	LIGHT STANDARD
WM	WATER METER
WV	WATER VALVE
ICV	IRRIGATION CONTROL VALVE
FH	FIRE HYDRANT
CO	CLEANOUT
MH	MANHOLE
TSC	TRAFFIC SIGNAL CONTROL
TSP	TRAFFIC SIGNAL POLE
TELE	TELEPHONE BOX
FLC	FLOOD LIGHT
FP	FLAG POLE
SIGN	TRAFFIC SIGN
IRS	1/2"=INCH IRON ROD W/"PACHECO KOCH" CAP SET
(C.M.)	CONTROLLING MONUMENT
	PROPERTY LINE
X	FENCE
OHL	OVERHEAD UTILITY LINE
E	UNDERGROUND ELECTRIC LINE
T	UNDERGROUND TELEPHONE LINE
C	UNDERGROUND CABLE LINE
6"W	UNDERGROUND WATER LINE
6"SS	UNDERGROUND SANITARY SEWER LINE
	FIRE HYDRANT

GRADING & DRAINAGE GENERAL NOTES

1. REFER TO GEOTECHNICAL REPORT FOR REQUIREMENTS REGARDING FILL COMPACTION AND MOISTURE CONTENT.
2. UNLESS NOTED, ALL FILL IS TO BE COMPACTED TO A MINIMUM OF 95% STANDARD PROCTOR DENSITY WITHIN 3% OF OPTIMUM MOISTURE CONTENT. FILL TO BE PLACED IN MAXIMUM LIFTS OF 6 INCHES.
3. SIDEWALKS AND ACCESSIBLE ROUTES SHALL HAVE A RUNNING SLOPE NO GREATER THAN 5% (UNLESS OTHERWISE NOTED) AND A CROSS SLOPE NO GREATER THAN 2%.
4. GRADING OF ALL HANDICAPPED SPACES AND ROUTES TO CONFORM TO FEDERAL, STATE, AND LOCAL GUIDELINES.
5. ALL PROPOSED AND EXISTING GRADES IN NON-PAVED AREAS ARE "FINISHED GRADE" (i.e. IN LANDSCAPE BEDS, TOP OF MULCH/BEDDING MATERIAL).
6. UNLESS NOTED, STORM DRAIN LINES SHALL BE OF THE FOLLOWING MATERIALS AND INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS:
   6.A. RCP C-76, CLASS III
   6.B. ADS N-12
   6.C. HANCOR HI-Q
7. UNLESS NOTED, GRATE INLETS TO BE "HANSON PIPE AND PRECAST" CATCH BASIN SIZED AS SHOWN, OR APPROVED EQUAL.
8. FINAL PAVING, CURB, AND SIDEWALK ELEVATIONS WILL BE PLACED AT PLUS OR MINUS 0.03 FOOT.
9. REFER TO LANDSCAPE SPECIFICATIONS FOR SEEDING AND SODDING REQUIREMENTS.
10. ANY CONCRETE, ROCK, OR MATERIAL DEEMED BY THE ENGINEER TO BE UNSUITABLE FOR SUBGRADE SHALL BE DISPOSED OF OFFSITE AT CONTRACTOR'S EXPENSE.
11. TRENCH BACKFILL MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF NCTCOG ITEM 504.2 AND SHALL BE MECHANICALLY COMPACTED IN 6-INCH LIFTS TO THE TOP OF SUBGRADE TO A MINIMUM OF 95% STANDARD PROCTOR DENSITY IN ACCORDANCE WITH NCTCOG ITEM 504.5 UNLESS OTHERWISE SHOWN ON THESE PLANS OR STATED IN THE STANDARD CITY SPECIFICATIONS.
12. EMBEDMENT SHALL CONFORM TO THE REQUIREMENTS OF NCTCOG ITEM 504.5 UNLESS OTHERWISE SHOWN ON THESE PLANS OR STATED IN THE STANDARD CITY SPECIFICATIONS.
13. A ROUND MANHOLE COVER MEETING CITY SPECIFICATIONS SHALL BE PLACED IN ALL INLET TOPS NEAR THE OUTLET PIPE.
14. ALL CONCRETE FOR INLETS AND DRAINAGE STRUCTURES SHALL CONFORM TO NCTCOG ITEM 702.2.4, CLASS "A" (3000 PSI) UNLESS OTHERWISE SHOWN ON THESE PLANS OR STATED IN STANDARD CITY SPECIFICATIONS.
15. CRUSHED STONE BEDDING OR APPROVED EQUAL SHALL BE PROVIDED BY THE CONTRACTOR WHEN ROCK IS ENCOUNTERED IN TRENCHES. THERE SHALL BE NO ADDITIONAL PAY ITEM FOR CRUSHED STONE BEDDING.
16. IF REQUIRED DUE TO CONSTRUCTION, POWER POLES TO BE BRACED OR RELOCATED AT CONTRACTOR'S EXPENSE.

PLAN VIEW

SECTION A–A

SECTION B–B

1 REINFORCED CONCRETE SLOPING HEADWALL

NOT TO SCALE

ANY CONFLICT BETWEEN THESE GENERAL NOTES AND THE CITY OF CELINA GENERAL NOTES LOCATED ON SHEET C1.1, CITY OF CELINA NOTES WILL SUPERCEDE

NO.	DATE	REVISION

Pacheco Koch
8350 N. CENTRAL EXPWY. SUITE 1000
DALLAS, TX 75206 972.235.3031
TX REG. ENGINEERING FIRM F-469
DALLAS • FORT WORTH • HOUSTON TX REG. SURVEYING FIRM LS-100080-00

STORM SEWER PLAN

CELINA FIRE STATION NO.1

PRESTON ROAD AND OKLAHOMA DRIVE

CITY OF CELINA

COLLIN COUNTY, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
LHN	JHB	AUG 2014	1"=30'			C4.1

STATE OF TEXAS — CHRISTOPHER M. JONES — 82681 — LICENSED PROFESSIONAL ENGINEER

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P-201403-01

PK FILE: 2963-13.342

DWG FILE: 2963-13.342ST.DWG
XREF FILE: 2963-13.342BA.DWG

CELINA FIRE STATION NO.1 - P-201403-01

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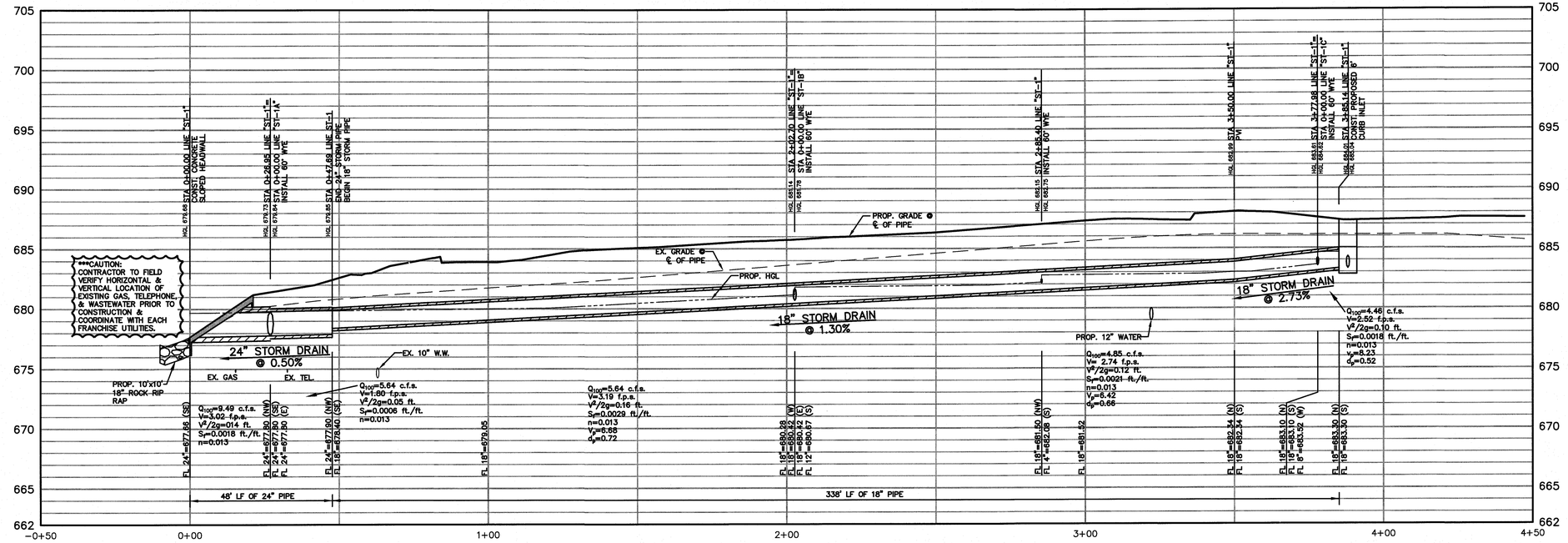
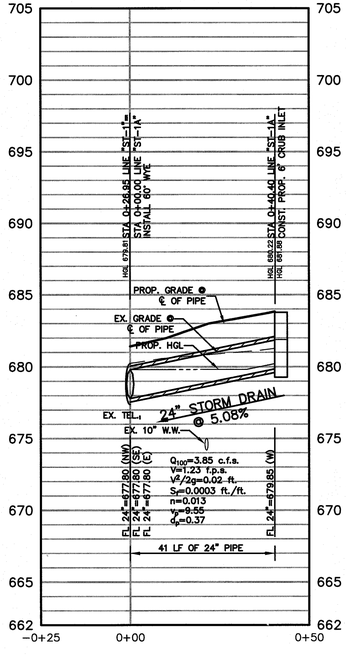
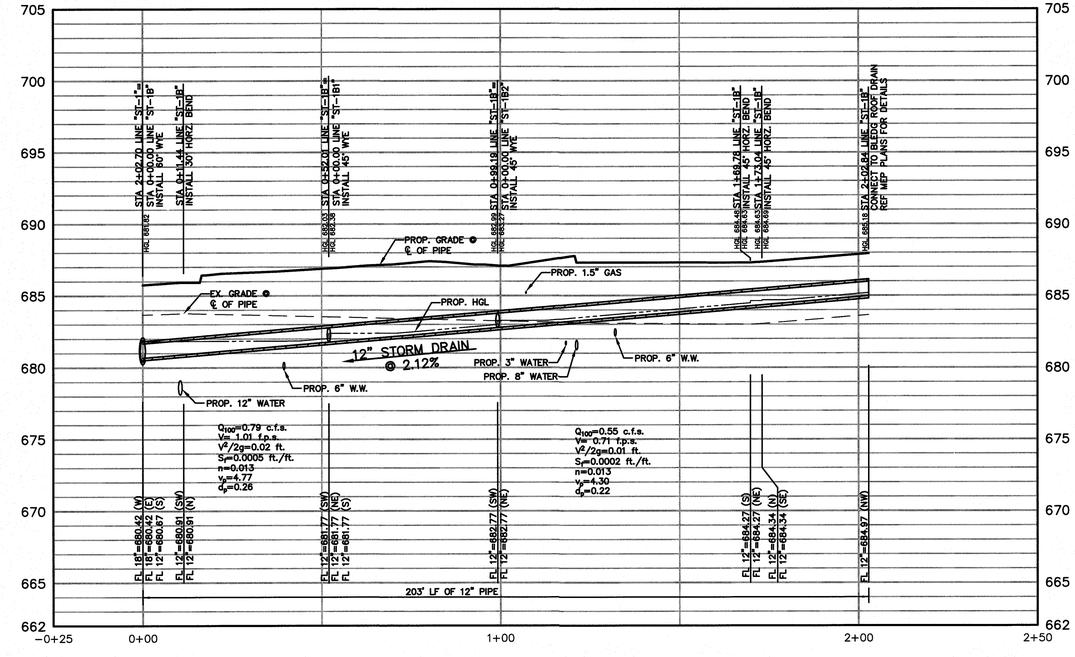


PROFILE ST−1



PROFILE ST−1A



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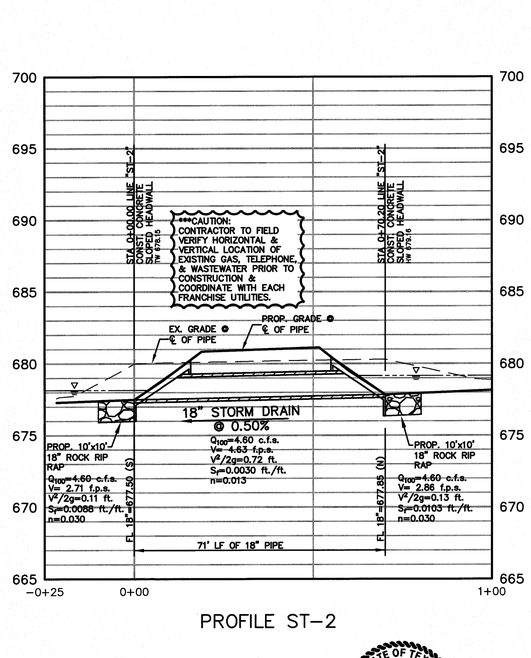

PROFILE ST−2

BENCH MARK LIST

TXDOT MON — TXDOT 2" BRASS DISK FOUND IN CONCRETE STAMPED "TXDOT GPS D0430068" LOCATED APPROXIMATELY 50' NORTH OF THE INTERSECTION OF S.H. 289 AND F.M. 455.
ELEV=719.81

TXDOT MON — TXDOT 2" BRASS DISK FOUND IN CONCRETE STAMPED "TXDOT GPS D0430046" LOCATED APPROXIMATELY 150' EAST OF THE INTERSECTION OF S.H. 289 AND F.M. 1461.
ELEV=735.69

BM# 1 — " □ " CUT SET ON CONCRETE CURB INLET IN FRONT OF 1341 PRESTON ROAD (S.H. 289), 1000'± NORTH OF BUSINESS 289 ON WEST SIDE OF PRESTON ROAD.
ELEV=694.55

BM# 2 — " □ " CUT SET ON CONCRETE CURB INLET, 350'± NORTH OF BUSINESS 289 ON WEST SIDE OF PRESTON ROAD.
ELEV=684.92

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P-201403-01

NO.	DATE	REVISION

Pacheco Koch
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DALLAS, TX 75206 972.235.3031
TX REG. ENGINEERING FIRM F-469
TX REG. SURVEYING FIRM LS-100080-00

STORM PROFILE

CELINA FIRE STATION NO.1

PRESTON ROAD AND OKLAHOMA DRIVE

CITY OF CELINA

COLLIN COUNTY, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
LHN	JHB	AUG 2014	H:1"=20' V:1"=5'			C4.2

PK FILE: 2963-13.342

DWG FILE: 2963-13.342ST.DWG
XREF FILE: 2963-13.342BA.DWG

CELINA FIRE STATION NO.1 - P-201403-01

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Line ST-	1																					
Downstream Station	**Upstream Station**	**Q (cfs)**	**Pipe Type**	**Size Box (W x H) Pipe (")**	**'n" Value**	**Design Slope (ft/ft)**	Upstream Junction Type (1)	**Connect or FL**	**Dwn HGL**	**Up HGL**	**Up HGL w/ Jump**	**Dwn FL**	**Up FL**	**V (fps)**	**V2/2g (ft)**	**Sf**	**Qcap (cfs)**	**Dn (ft)**	**Dp (ft)**	**Vp (fps)**	**Vp2/2g (ft)**	Partial Station (2)	Partial Elevation (3)
0+00.00	0+26.95	9.49	Pipe	24"	0.013	0.0050	Wye - 60°	Centerlines	679.68	679.73	679.84	677.66	677.79	3.02	0.14	0.0018	16.00	1.11	1.93	3.05	0.14	N/A	N/A
0+26.95	0+47.69	5.64	Pipe	24"	0.013	0.0050	Size Change	Soffits	679.84	679.85	679.85	677.79	677.90	1.80	0.05	0.0006	16.00	0.82	1.96	1.81	0.05	N/A	N/A
0+47.69	2+02.70	5.64	Pipe	18"	0.013	0.0130	Wye - 60°	Centerlines	679.85	681.14	681.78	678.40	680.41	3.19	0.16	0.0029	11.98	0.72	0.72	6.68	0.69	1+20.08	680.06
2+02.70	2+85.40	4.85	Pipe	18"	0.013	0.0130	Wye - 60°	Centerlines	681.78	682.15	682.75	680.41	681.49	2.74	0.12	0.0021	11.98	0.66	0.66	6.42	0.64	2+67.57	681.92
2+85.40	3+50.00	4.85	Pipe	18"	0.013	0.0130	None	Soffits	682.75	682.99	682.99	681.49	682.33	2.74	0.12	0.0021	11.98	0.66	0.66	6.42	0.64	3+39.99	682.86
3+50.00	3+77.98	4.46	Pipe	18"	0.013	0.0273	Wye - 60°	Centerlines	682.99	683.61	684.62	682.33	683.09	2.52	0.10	0.0018	17.36	0.52	0.52	8.23	1.05	3+55.71	683.00
3+77.98	3+85.14	4.46	Pipe	18"	0.013	0.0273	Inlet	683.30	684.62	684.64	684.80	683.09	683.29	2.52	0.10	0.0018	17.36	0.52	1.35	2.67	0.11	N/A	N/A

Line ST-	1A	**Connects to Line ST-**	1	**At Station**	0+26.95	**Junction Type**	Wye	Centerlines														
Downstream Station	**Upstream Station**	**Q (cfs)**	**Pipe Type**	**Size Box (W x H) Pipe (")**	**'n" Value**	**Design Slope (ft/ft)**	**Upstream Junction Type**	**Connect or FL**	**Dwn HGL**	**Up HGL**	**Up HGL w/ Jump**	**Dwn FL (Auto Calc)**	**Up FL**	**V (fps)**	**V2/2g (ft)**	**Sf**	**Qcap (cfs)**	**Dn (ft)**	**Dp (ft)**	**Vp (fps)**	**Vp2/2g (ft)**	**Partial Station**	**Partial Elevation**
0+00.00	0+40.40	3.85	Pipe	24"	0.013	0.0508	Inlet	679.85	679.81	680.22	681.88	677.79	679.85	1.23	0.02	0.0003	50.99	0.37	0.37	9.56	1.42	0+32.46	679.82

Line ST-	1B	**Connects to Line ST-**	1	**At Station**	2+02.70	**Junction Type**	Wye - 60°	Centerlines														
Downstream Station	**Upstream Station**	**Q (cfs)**	**Pipe Type**	**Size Box (W x H) Pipe (")**	**'n" Value**	**Design Slope (ft/ft)**	**Upstream Junction Type**	**Connect or FL**	**Dwn HGL (Auto Calc)**	**Up HGL**	**Up HGL w/ Jump**	**Dwn FL (Auto Calc)**	**Up FL**	**V (fps)**	**V2/2g (ft)**	**Sf**	**Qcap (cfs)**	**Dn (ft)**	**Dp (ft)**	**Vp (fps)**	**Vp2/2g (ft)**	**Partial Station**	**Partial Elevation**
0+00.00	0+11.44	0.79	Pipe	12"	0.013	0.0212	Bend - 30°	Soffits	681.82	681.83	681.84	680.66	680.91	1.01	0.02	0.0005	5.19	0.26	0.92	1.04	0.02	N/A	N/A
0+11.44	0+52.01	0.79	Pipe	12"	0.013	0.0212	Wye - 45°	Centerlines	681.84	682.03	682.38	680.91	681.77	1.01	0.02	0.0005	5.19	0.26	0.26	4.77	0.35	0+43.60	681.85
0+52.01	0+99.19	0.55	Pipe	12"	0.013	0.0212	Wye - 45°	Centerlines	682.38	682.99	683.27	681.77	682.77	0.70	0.01	0.0002	5.19	0.22	0.22	4.30	0.29	0+70.86	682.39
0+99.19	1+69.78	0.55	Pipe	12"	0.013	0.0212	Bend - 45°	Soffits	683.27	684.48	684.63	682.77	684.26	0.70	0.01	0.0002	5.19	0.22	0.22	4.30	0.29	1+12.79	683.27
1+69.78	1+73.04	0.55	Pipe	12"	0.013	0.0212	Bend - 45°	Soffits	684.63	684.63	684.69	684.26	684.33	0.70	0.01	0.0002	5.19	0.22	0.29	2.84	0.13	N/A	N/A
1+73.04	2+02.84	0.55	Pipe	12"	0.013	0.0212	None	684.97	684.69	685.18	685.18	684.33	684.96	0.70	0.01	0.0002	5.19	0.22	0.22	4.30	0.29	1+79.61	684.69

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P-201403-01

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Pacheco Koch
DALLAS ▪ FORT WORTH ▪ HOUSTON
8350 N. CENTRAL EXPWY. SUITE 1000
DALLAS, TX 75206 972.235.3031
TX REG. ENGINEERING FIRM F-469
TX REG. SURVEYING FIRM LS-100080-00

STORM SEWER CALCULATIONS

CELINA FIRE STATION NO.1

PRESTON ROAD AND OKLAHOMA DRIVE

CITY OF CELINA

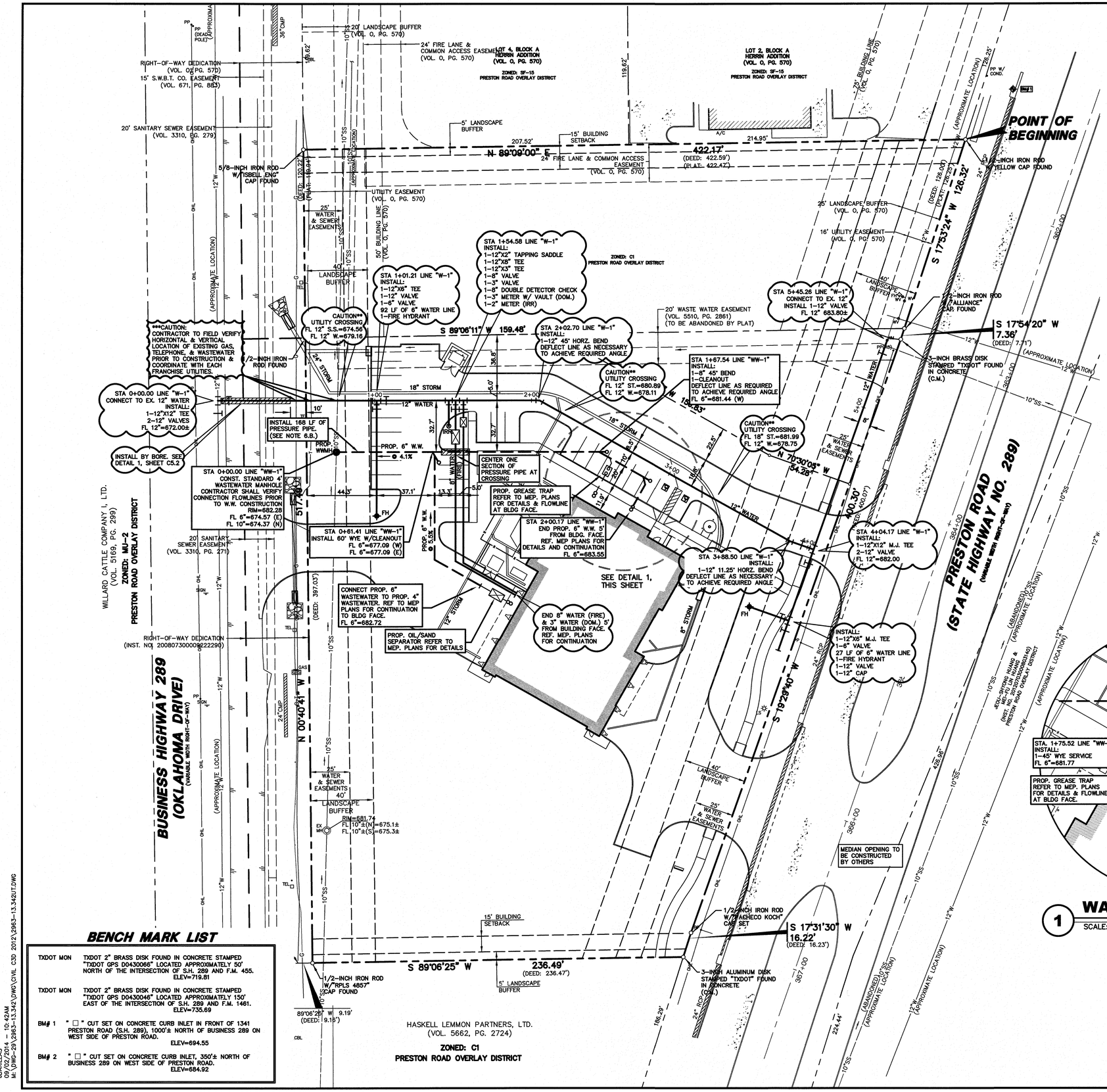
COLLIN COUNTY, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
LHN	JHB	AUG 2014	H: 1"=20' V: 1"=5'			C4.3

PK FILE: 2963-13.342

DWG FILE: 2963-13.342ST.DWG
XREF FILE: 2963-13.342BA.DWG

CELINA FIRE STATION NO.1 - P-201403-01



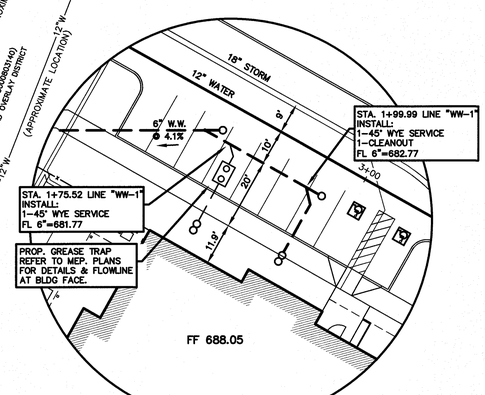
LEGEND

B.	BOLLARD	FL	FLOOD LIGHT
EM	ELECTRIC METER	FP	FLAG POLE
PP	POWER POLE	SIGN	TRAFFIC SIGN
LS	LIGHT STANDARD	IRS	1/2-INCH IRON ROD W/"PACHECO KOCH" CAP SET
WM	WATER METER	(C.M.)	CONTROLLING MONUMENT
WV	WATER VALVE		PROPERTY LINE
ICV	IRRIGATION CONTROL VALVE	X	FENCE
FH	FIRE HYDRANT	OHL	OVERHEAD UTILITY LINE
CO	CLEANOUT	E	UNDERGROUND ELECTRIC LINE
MH	MANHOLE	T	UNDERGROUND TELEPHONE LINE
TSC	TRAFFIC SIGNAL CONTROL	C	UNDERGROUND CABLE LINE
TSP	TRAFFIC SIGNAL POLE	6"W	UNDERGROUND WATER LINE
TELE	TELEPHONE BOX	6"SS	UNDERGROUND SANITARY SEWER LINE
			PROPOSED GREASE TRAP
			PROPOSED DOUBLE CLEANOUT
			PROPOSED CLEANOUT

WATER & SANITARY SEWER GENERAL NOTES

1. ALL CONCRETE SHALL BE CLASS "A" (3000 PSI), UNLESS OTHERWISE NOTED.
2. ALL WATER MAINS SHALL BE PVC C900, DR 14, CLASS 305. FIRE PROTECTION SERVICES SHALL BE PVC C900, DR 14, CLASS 305 AND INSTALLED IN ACCORDANCE WITH THE DESIGN AND SPECIFICATIONS OF THE FIRE PROTECTION PLANS TO BE PREPARED BY A LICENSED FIRE PROTECTION ENGINEER.
3. WATER AND SANITARY SEWER SERVICES SHALL MEET PLUMBING CODE REQUIREMENTS.
4. ALL WATER MAINS SHALL HAVE A MINIMUM COVER OF 48 INCHES BELOW IMPROVED FINISHED GRADE, UNLESS OTHERWISE NOTED.
5. SANITARY SEWER PIPE SHALL BE PVC SDR-35.
6. WHEN WATER MAINS AND SANITARY SEWERS ARE INSTALLED, THEY SHALL BE INSTALLED NO CLOSER TO EACH OTHER THAN NINE FEET IN ALL DIRECTIONS AND PARALLEL LINES MUST BE INSTALLED IN SEPARATE TRENCHES. WHERE THE NINE FOOT SEPARATION DISTANCE CANNOT BE ACHIEVED, THE FOLLOWING GUIDELINES SHALL APPLY:
   - 6.A. WHERE A SANITARY SEWER PARALLELS A WATERLINE, THE SEWER SHALL BE CONSTRUCTED OF CAST IRON, DUCTILE IRON, OR PVC MEETING ASTM SPECIFICATIONS WITH A PRESSURE RATING OF 150 PSI FOR BOTH THE PIPE AND JOINTS. THE VERTICAL SEPARATION SHALL BE A MINIMUM OF TWO FEET BETWEEN OUTSIDE DIAMETERS AND THE HORIZONTAL SEPARATION SHALL BE A MINIMUM OF FOUR FEET BETWEEN OUTSIDE DIAMETERS. THE SEWER SHALL BE LOCATED BELOW THE WATERLINE.
   - 6.B. WHERE A SANITARY SEWER CROSSES A WATERLINE AND THE SEWER IS CONSTRUCTED OF CAST IRON, DUCTILE IRON, OR PVC WITH A MINIMUM PRESSURE RATING OF 150 PSI, AN ABSOLUTE MINIMUM DISTANCE OF 12 INCHES BETWEEN OUTSIDE DIAMETERS SHALL BE MAINTAINED AND WATERLINE SHALL BE ENCASED.
   - 6.C. WHERE A SANITARY SEWER CROSSES UNDER A WATERLINE AND THE SEWER IS CONSTRUCTED OF ABS TRUSS PIPE, SIMILAR SEMI-RIGID PLASTIC COMPOSITE PIPE, CLAY PIPE, OR CONCRETE PIPE WITH GASKETED JOINTS, A MINIMUM TWO FOOT SEPARATION DISTANCE SHALL BE MAINTAINED. IN ADDITION, THE SEWER SHALL BE LOCATED BELOW THE WATERLINE WHERE POSSIBLE AND ONE LENGTH OF THE SEWER PIPE MUST BE CENTERED ON THE WATERLINE.
   - 6.D. WHERE A SANITARY SEWER CROSSES OVER A WATERLINE ALL PORTIONS OF THE SEWER WITHIN NINE FEET OF THE WATERLINE SHALL BE CONSTRUCTED OF CAST IRON, DUCTILE IRON, OR PVC PIPE WITH A PRESSURE RATING OF AT LEAST 150 PSI USING APPROPRIATE ADAPTERS. IN LIEU OF THIS PROCEDURE, THE NEW CONVEYANCE MAY BE ENCASED IN A JOINT OF 150 PSI PRESSURE CLASS PIPE AT LEAST 18 FEET LONG AND TWO NOMINAL SIZES LARGER THAN THE NEW CONVEYANCE. THE SPACE AROUND THE CARRIER PIPE SHALL BE SUPPORTED AT FIVE FEET INTERVALS WITH SPACERS OR BE FILLED TO THE SPRING LINE WITH WASHED SAND. THE ENCASEMENT PIPE SHOULD BE CENTERED ON THE CROSSING AND BOTH ENDS SEALED WITH CEMENT GROUT OR MANUFACTURED SEAL.
   - 6.E. THE SANITARY SEWER NEED NOT BE DISTURBED WHERE A NEW WATERLINE IS TO BE INSTALLED PARALLEL TO AN EXISTING SEWER THAT SHOWS NO EVIDENCE OF LEAKAGE AND THE WATERLINE IS INSTALLED ABOVE THE SEWER A MINIMUM OF TWO FEET VERTICALLY AND FOUR FEET HORIZONTALLY.
   - 6.F. THE SANITARY SEWER NEED NOT BE DISTURBED WHERE A NEW WATERLINE IS TO CROSS OVER BY TWO FEET OR MORE AN EXISTING SEWER SHOWING NO EVIDENCE OF LEAKAGE. SHOULD EXCAVATION FOR THE WATERLINE PRODUCE EVIDENCE THAT THE SEWER IS LEAKING, THE SEWER MUST BE REPAIRED OR REPLACED AS DESCRIBED IN SUBPARAGRAPH (6.C) OR (6.D).
7. CONTRACTOR TO VERIFY ALL EXISTING SEWER FLOW LINES BEFORE BEGINNING CONSTRUCTION.
8. CONTRACTOR SHALL TIE A ONE INCH WIDE PIECE OF RED PLASTIC FLAGGING TO THE END OF SEWER SERVICE AND SHALL LEAVE A MINIMUM OF 36 INCHES OF FLAGGING EXPOSED AFTER BACKFILL. AFTER CURB AND PAVING IS COMPLETED, CONTRACTOR SHALL MARK THE LOCATION OF THE SEWER SERVICE ON THE CURB OR ALLEY IN ACCORDANCE WITH THE STANDARD CITY SPECIFICATIONS.
9. ALL SANITARY SEWER LINES SHALL BE TESTED IN ACCORDANCE WITH THE STANDARD CITY SPECIFICATIONS.
10. THE UTILITY CONTRACTOR SHALL INSTALL THE WATER SERVICES TO A POINT TWO FEET BACK OF THE CURB LINE AT A DEPTH OF 12 INCHES. THE METER BOX SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR AFTER THE PAVING CONTRACTOR HAS COMPLETED THE FINE GRADING BEHIND THE BACK OF THE CURB. EACH SERVICE LOCATION SHALL BE MARKED ON THE CURB WITH A BLUE LETTER "W" BY THE UTILITY CONTRACTOR AND TIED TO PROPERTY CORNERS ON THE "RECORD DRAWINGS."
11. ALL METER BOXES SHALL BE LOCATED IN NON-TRAFFIC AREAS.
12. TRENCH BACKFILL MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF NCTCOG ITEM 504.2 AND SHALL BE MECHANICALLY COMPACTED IN 6-INCH LIFTS TO THE TOP OF SUBGRADE TO A MINIMUM OF 95% STANDARD PROCTOR DENSITY IN ACCORDANCE WITH NCTCOG ITEM 504.5 UNLESS OTHERWISE SHOWN ON THESE PLANS OR STATED IN THE STANDARD CITY SPECIFICATIONS.
13. EMBEDMENT SHALL CONFORM TO THE REQUIREMENTS OF NCTCOG ITEM 504.5 UNLESS OTHERWISE SHOWN ON THESE PLANS OR STATED IN THE STANDARD CITY SPECIFICATIONS.
14. VALVE BOXES SHALL BE FURNISHED AND SET ON EACH GATE VALVE. AFTER THE FINAL CLEAN-UP AND ALIGNMENT HAS BEEN COMPLETED, THE UTILITY CONTRACTOR SHALL POUR A 24"X24"X6" CONCRETE BLOCK AROUND ALL VALVE BOX TOPS LEVEL WITH THE FINISHED GRADE.
15. CONTRACTOR SHALL RECONNECT ALL EXISTING SERVICES AND MAINTAIN EXISTING SERVICES THROUGHOUT CONSTRUCTION.
16. IF REQUIRED DUE TO CONSTRUCTION, POWER POLES TO BE BRACED OR RELOCATED AT CONTRACTOR'S EXPENSE.

ANY CONFLICT BETWEEN THESE GENERAL NOTES AND THE CITY OF CELINA GENERAL NOTES LOCATED ON SHEET C1.1, CITY OF CELINA NOTES WILL SUPERCEDE



1 WASTEWATER DETAIL

SCALE: 1" = 20'

BENCH MARK LIST

TXDOT MON — TXDOT 2" BRASS DISK FOUND IN CONCRETE STAMPED "TXDOT GPS D0430066" LOCATED APPROXIMATELY 50' NORTH OF THE INTERSECTION OF S.H. 289 AND F.M. 455. ELEV=719.81

TXDOT MON — TXDOT 2" BRASS DISK FOUND IN CONCRETE STAMPED "TXDOT GPS D0430046" LOCATED APPROXIMATELY 150' EAST OF THE INTERSECTION OF S.H. 289 AND F.M. 1461. ELEV=735.69

BM# 1 — " □ " CUT SET ON CONCRETE CURB INLET IN FRONT OF 1341 PRESTON ROAD (S.H. 289), 1000'± NORTH OF BUSINESS 289 ON WEST SIDE OF PRESTON ROAD. ELEV=694.55

BM# 2 — " □ " CUT SET ON CONCRETE CURB INLET, 350'± NORTH OF BUSINESS 289 ON WEST SIDE OF PRESTON ROAD. ELEV=684.92

NO.	DATE	REVISION

Pacheco Koch
8350 N. CENTRAL EXPWY. SUITE 1000
DALLAS, TX 75206 972.235.3031
TX REG. ENGINEERING FIRM F-469
DALLAS ▪ FORT WORTH ▪ HOUSTON TX REG. SURVEYING FIRM LS-100080-00

WATER & WASTEWATER PLAN

CELINA FIRE STATION NO.1

PRESTON ROAD AND OKLAHOMA DRIVE

CITY OF CELINA

COLLIN COUNTY, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
LHN	JHB	AUG 2014	1"=30'			C5.1

STATE OF TEXAS — CHRISTOPHER M. JONES — 82681 — LICENSED PROFESSIONAL ENGINEER — 8/29/14

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P-201403-01

PK FILE: 2963-13.342

DWG FILE: 2963-13.342UT.DWG
XREF FILE: 2963-13.342BA.DWG

JBARILLAS
09/02/2014 - 10:42AM
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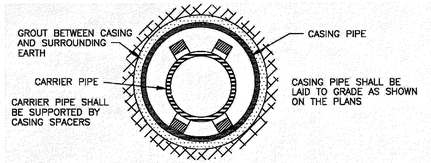
CELINA FIRE STATION NO.1 - P-201403-01

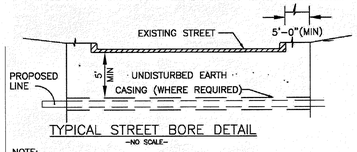


CASING DETAIL

-NO SCALE-

REQUIREMENTS FOR WATER LINE IN CASING:

1. WATER LINES SHALL BE PLACED IN A CASING WHERE THE LINES ARE INSTALLED:
   A. UNDER EXISTING PERMANENT PAVEMENT ON STREETS WITH A CLASSIFICATION OF "COLLECTOR" OR HIGHER.
   B. CROSSING EXISTING OR PROPOSED HIGHWAY RIGHTS-OF-WAY.
   C. IN EASEMENTS BETWEEN HOUSES, BUILDING STRUCTURES, AND/OR OTHER CONFINED WORKING AREAS AS DETERMINED BY THE CITY ENGINEER.
2. ACCEPTABLE MATERIALS FOR USE AS CASINGS FOR WATER LINE IMPROVEMENTS ARE REINFORCED CONCRETE PIPE (RCP); WELDED STEEL PIPE; AND CORRUGATED METAL PIPE (CMP). THE DESIGN ENGINEER SHALL DETERMINE AND SPECIFY ON THE PLAN DRAWINGS THE CASING MATERIAL TYPE, DIAMETER, METHOD OF INSTALLATION, AND OTHER PERTINENT INFORMATION REGARDING THE CASING PIPE.
3. THE CASING PIPE MAY BE INSTALLED BY JACKING, TUNNELING, BORING, OPEN CUT, ETC. THE METHOD USED SHALL BE DETERMINED BY THE DESIGN ENGINEER, SUBJECT TO THE APPROVAL OF THE CITY ENGINEER, AND SHALL BE SHOWN ON THE PLAN DRAWINGS.
4. CARRIER PIPE (WATER LINE) MAY BE POLYVINYL CHLORIDE (PVC), DUCTILE IRON (DI), CAST IRON (CI), OR CONCRETE PRESSURE PIPE (RCCP). THE TYPE OF CARRIER PIPE SHALL BE SPECIFIED ON THE PLANS.
5. CARRIER PIPE SHALL BE SUPPORTED IN THE CASING USING CASING SPACERS AS MANUFACTURED BY ADVANCED PRODUCTS AND SYSTEMS, INC., LAFAYETTE, LOUISIANA OR APPROVED EQUAL. SPACERS SHALL BE POLYETHYLENE (MODEL CI), STAINLESS STEEL (MODEL SSI), OR CARBON STEEL (MODEL SI), DEPENDENT ON THE MATERIAL AND DIAMETER OF THE CARRIER PIPE. CARBON STEEL SPACERS SHALL HAVE FUSION BONDED EPOXY OR PVC COATINGS. ALL SPACERS SHALL BE INSTALLED I.A.W. MANUFACTURER'S RECOMMENDATIONS.
6. CASING END SEALS: END SEALS FOR THE CASING SHALL BE 1/8-INCH THICK SYNTHETIC RUBBER SEALS SECURED TO THE CASING AND THE CARRIER PIPE WITH STAINLESS STEEL BANDING STRAPS WITH WORM GEAR MECHANISM. THE SEALS SHALL BE PULL-ON (MODEL AC), OR WRAP-AROUND (MODEL AS), ALL AS MANUFACTURED BY ADVANCED PRODUCTS AND SYSTEMS, OR AN APPROVED EQUAL.



TYPICAL STREET BORE DETAIL

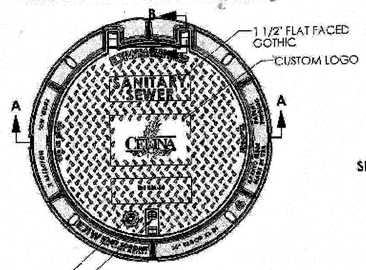
-NO SCALE-

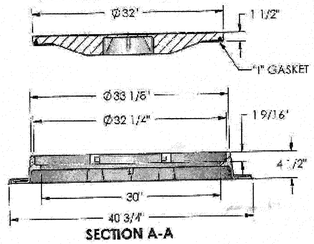
NOTE:
SIZE OF THE BORE SHALL BE THE OPTION OF THE CONTRACTOR, UNLESS OTHERWISE SPECIFIED. PRESSURE GROUT AROUND THE CASING (WHERE USED) OR AROUND THE CARRIER PIPE WITH NO CASING.

1 CASING/BORE DETAIL

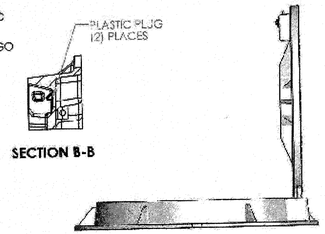
NTS

ERGO XL Assembly

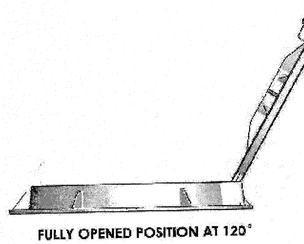




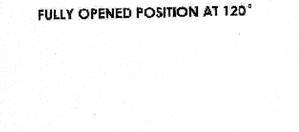
SECTION A-A



SECTION B-B



SAFETY LOCK & REMOVAL POSITION AT 90°



FULLY OPENED POSITION AT 120°

ej

Product Number
0014038L01

Design Features
-Materials
Cover
Ductile Iron (80-55-06)
Frame
Ductile Iron (80-55-06)

-Design Load
Heavy Duty
-Open Area
n/a
-Coating
Undipped
-√ Designates Machined Surface

-Slip Resistant Surface
with the LLLI® registered trademark

Certification
-AETM A536

-Country of Origin: USA

Major Components
LC0014038
LP0040404075

Drawing Revision
6/18/2012 Designer: SDC
6/25/2012 Revised By: SDC

Disclaimer
Images (models), dimensions declared and specifications provided for your guidance. We reserve the right to revise specifications without prior notice.

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Contact
800.626.4653
ejco.com

2 MANHOLE LID DETAIL

NTS

NO.	DATE	REVISION

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8350 N. CENTRAL EXPWY. SUITE 1000
DALLAS, TX 75206 972.235.3031
TX REG. ENGINEERING FIRM F-469
DALLAS • FORT WORTH • HOUSTON TX REG. SURVEYING FIRM LS-100080-00

MISCELLANEOUS DETAILS

CELINA FIRE STATION NO.1

PRESTON ROAD AND OKLAHOMA DRIVE

CITY OF CELINA

COLLIN COUNTY, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
LHN	JHB	AUG 2014	H:1"=40' V:1"=5'			C5.2

STATE OF TEXAS
CHRISTOPHER M. JONES
82681
LICENSED
PROFESSIONAL ENGINEER
8/29/14

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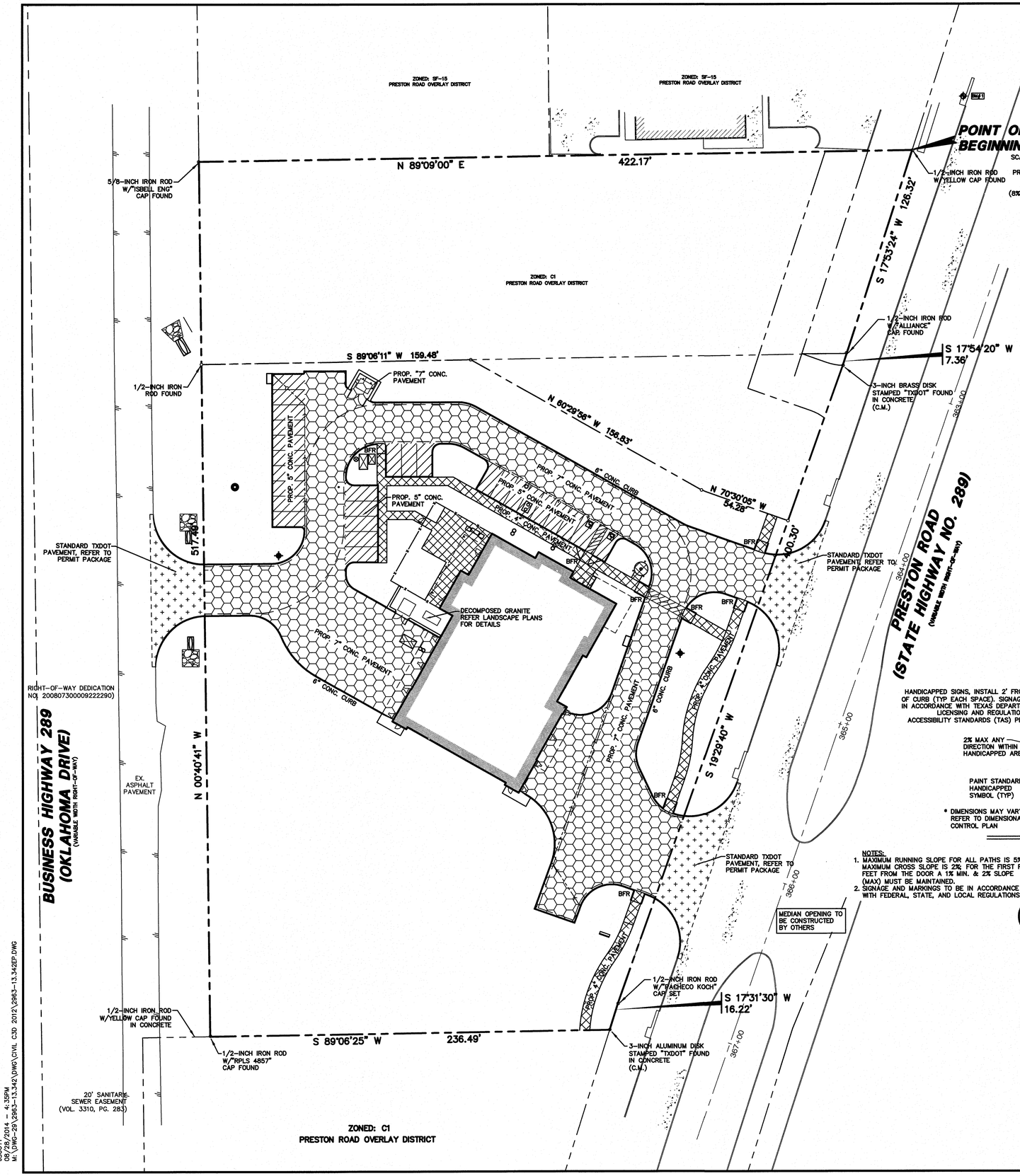
P-201403-01

PK FILE: 2540-05.440

DWG FILE: 2963-13.342UT.DWG
XREF FILE: 2963-13.342BA.DWG

CELINA FIRE STATION NO.1

JSCOTT
08/28/2014 - 4:35PM
M:\DWG-29\2963-13.342\DWG\CIVIL CSD 2012\2963-13.342UT.DWG



CLASS A, 3000 PSI CONCRETE PARKING AREAS AT 28 DAYS

CLASS S, 3500 PSI CONCRETE FIRE LANE AND DUMPSTER AREAS AT 28 DAYS

NO. 3 BARS ON 18" CTRS. BOTH WAYS

T = 5" PARKING AREAS
T = 7" DRIVES FIRE LANES AND DUMPSTER AREAS

SCARIFY AND COMPACT SUBGRADE AT LEAST 95% DRY DENSITY (STD. PROCTOR) ASTM D698 AND MOISTURE CONTENT AT LEAST +3% ABOVE OPTIMUM. LIME STABILIZE (8% HYDRATED LIME DRY UNIT WEIGHT)

NOTE: REFER TO GEOTECH REPORT FOR FURTHER INFORMATION.

1 CONCRETE PAVEMENT SECTION

NOT TO SCALE

PROVIDE SAW JOINT ON CONSTRUCTION JOINT AT ALL CHANGES IN PAVEMENT THICKNESS

VERTICAL SAW CUT 1/8" TO 1/4" WIDE

HOT POURED RUBBER JOINT SEALANT

1/4" MIN.

NO. 3 BARS ON 18" CTRS. BOTH WAYS

MAX. JOINT SPACING 15' C-C EACH WAY

2 SAWED DUMMY JOINT

NOT TO SCALE

BRUSHED, SLIP RESISTANT CONCRETE SURFACE

FADE OUT CURBS

1" R

3" MIN.

1:20 MAX.

PROPOSED DRIVE

CONC. WALK WIDTH VARIES

1" R

10' MIN.

CONCRETE THICKNESS AND REINFORCEMENT TO MATCH PROPOSED WALK.

3 SINGLE ACCESS ROUTE WITHOUT RAMP

NOT TO SCALE (PRIVATE ONLY)

HANDICAPPED SIGNS, INSTALL 2' FROM BACK OF CURB (TYP EACH SPACE). SIGNAGE TO BE IN ACCORDANCE WITH TEXAS DEPARTMENT OF LICENSING AND REGULATION TEXAS ACCESSIBILITY STANDARDS (TAS) PER 502.6

6' RAMP 1:12 MAX

6" CONC. CURB

2% MAX ANY DIRECTION WITHIN HANDICAPPED AREA

FADE-OUT CURBS

2% MAX

PAINT STANDARD HANDICAPPED SYMBOL (TYP)

*8' MIN. *5' MIN. *11' MIN. *8' MIN.

*18.5'

* DIMENSIONS MAY VARY REFER TO DIMENSIONAL CONTROL PLAN

4" PAINTED STRIPES (TYP)

DESIGNATE AS "VAN ACCESSIBLE SPACE" ON SIGNAGE

NOTES:
1. MAXIMUM RUNNING SLOPE FOR ALL PATHS IS 5% MAXIMUM CROSS SLOPE IS 2% FOR THE FIRST FIVE FEET FROM THE DOOR A 1% MIN. & 2% SLOPE (MAX) MUST BE MAINTAINED.
2. SIGNAGE AND MARKINGS TO BE IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.

4 90° HANDICAP PARKING & SINGLE CURB RAMP

NOT TO SCALE

3/8" RADIUS

6"

3" RADIUS

1:3 BATTER

R 1-1/2"

#3 BARS @ 18" O.C. BOTH WAYS

#3 BAR CONTINUOUS

T

6"

1'-6"

COMPACTED SUBGRADE

5 INTEGRAL CURB

NOT TO SCALE

24" NO. 6 SMOOTH DOWEL ON 24" CENTERS

16" DOWEL COATING

2" MIN.

1/2"±

HOT POURED RUBBER JOINT SEALANT

11"

1-1/4" MIN. CLEARANCE

DOWEL SLEEVE TO FIT DOWEL AND BE SECURED

T

T/2

REDWOOD EXPANSION JOINT FILLER

6 EXPANSION JOINT

NOT TO SCALE

1/2" WIDE FORMED GROOVE EDGES ROUNDED TO 1/4" RADIUS

HOT POURED RUBBER JOINT SEALANT

PROVIDE ADDITIONAL NO. 3 BAR (24" LONG) CENTERED ON JOINT BETWEEN STD. REINFORCEMENT (TOTAL TO EQUAL NO. 3 @ 9")

T

T/2

12"

1/4 MIN.

NO. 3 BARS ON 18" CTRS. BOTH WAYS

FIRST POUR

SECOND POUR

LAP BARS 18" AND TIE SECURELY

7 CONSTRUCTION JOINT

NOT TO SCALE

JOINT SEALANT WITH EXPANSION MATERIAL IF ADJACENT TO CURB OR BUILDING

WIDTH VARIES – SEE PLAN

BROOM FINISH UNLESS OTHER FINISH OR COLOR IS NOTED DIFFERENTLY ON ARCHITECTURAL OR LANDSCAPE PLANS

FINISHED GRADE

CLASS "A" 3000 PSI CONC.

6"

6"

1'

1'-6"

#3 BARS AT 24" C-C BOTH WAYS

COMPACTED SUBGRADE TO 95% STANDARD PROCTOR. LIME STABILIZATION OR SELECT BORROW MATERIAL FOR SUBGRADE IS REQUIRED WHEN SOIL P.I. IS GREATER THAN 18.

PROVIDE BITUMINOUS EXPANSION MATERIAL WHERE WALK ABUTS EXISTING IMPROVEMENTS AND AT ALL CHANGES IN GRADE

PROVIDE TOOLED JOINTS AT SPACING EQUAL TO WIDTH. PROVIDE REDWOOD EXPANSION JOINTS AT 32' SPACING UNLESS NOTED DIFFERENTLY ON ARCHITECTURAL OR LANDSCAPE PLANS

8 CONCRETE WALK PRIVATE

NOT TO SCALE

PAVING GENERAL NOTES

1. ALL DIMENSIONS ARE FROM BACK OF CURB UNLESS OTHERWISE NOTED.
2. ALL CONCRETE SHALL CONFORM TO NCTCOG ITEM 303.3.4, CLASS "A" (3000 PSI) UNLESS OTHERWISE SHOWN ON THESE PLANS OR STATED IN STANDARD CITY SPECIFICATIONS.
3. ALL FILL PLACED UNDER PAVING SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY IN 6 INCH LIFTS, UNLESS OTHERWISE NOTED. REFER TO STRUCTURAL SPECIFICATIONS FOR FILL PLACED BENEATH BUILDING AREAS. ALL OTHER FILL AREAS TO BE COMPACTED TO 90% STANDARD PROCTOR.
4. THE CONTRACTOR SHALL SUBMIT A JOINT SPACING PLAN TO THE ENGINEER FOR APPROVAL. EXPANSION JOINT SPACING SHALL BE 90' MAXIMUM EACH WAY WITH NO KEYWAYS AND SAWED DUMMY JOINTS SHALL BE 15' EACH WAY, UNLESS OTHERWISE NOTED.
5. TRANSVERSE CONSTRUCTION JOINTS SHALL BE USED AT THE END OF EACH DAY'S PAVING AND WHERE INTERRUPTIONS SUSPEND OPERATIONS FOR 30 MINUTES OR MORE.
6. ALL PAVEMENTS TO BE REMOVED SHALL BE SAWCUT TO A NEAT LINE, MINIMUM 1-1/2" DEEP, AND THE PAVEMENT REMOVED IN SUCH A MANNER AS TO PRESERVE THE EXISTING TRANSVERSE REINFORCING STEEL TO THE MAXIMUM EXTENT POSSIBLE.
7. ALL CURB AND GUTTER SHALL BE INTEGRAL WITH THE PAVEMENT AND HAVE THE SAME COMPRESSIVE STRENGTH.
8. PAVEMENT REINFORCEMENT SHALL BE #3 BARS, SPACED AT 18 INCHES CENTER TO CENTER EACH WAY EXCEPT WHERE OTHERWISE NOTED IN THE PLANS.
9. BAR LAPS SHALL BE 30 DIAMETERS IN LENGTH.
10. ALL STRIPES SHALL BE 4 INCHES WIDE, UNLESS OTHERWISE NOTED.
11. INSTALLATION AND PLACEMENT OF IRRIGATION SLEEVES AND UTILITY CONDUITS SHALL BE IN ACCORDANCE WITH LANDSCAPE ARCHITECT AND MEP PLANS.
12. SIDEWALKS AND ACCESSIBLE ROUTES SHALL HAVE A RUNNING SLOPE NO GREATER THAN 5% (UNLESS OTHERWISE NOTED) AND A CROSS SLOPE NO GREATER THAN 2%.

P-201403-01

0 15 30 60 90

GRAPHIC SCALE IN FEET

LEGEND

B.	BOLLARD
EM	ELECTRIC METER
PP	POWER POLE
LS	LIGHT STANDARD
WM	WATER METER
WV	WATER VALVE
ICV	IRRIGATION CONTROL VALVE
FH	FIRE HYDRANT
CO	CLEANOUT
MH	MANHOLE
TSC	TRAFFIC SIGNAL CONTROL
TSP	TRAFFIC SIGNAL POLE
TELE	TELEPHONE BOX
	FLOOD LIGHT
FP	FLAG POLE
SIGN	TRAFFIC SIGN
IRS	1/2-INCH IRON ROD W/"PACHECO KOCH" CAP SET
(C.M.)	CONTROLLING MONUMENT
	PROPERTY LINE
X	FENCE
	PARKING AND DRIVE AREAS, 5" REINFORCED CONCRETE PAVEMENT (CLASS "A", 0600 PSI)
	FIRE LANE AND DUMPSTER AREA 7" REINFORCED CONCRETE PAVEMENT (CLASS "C", 3500 PSI)
	STANDARD TXDOT PAVEMENT
	SIDEWALK 4" REINFORCED CONCRETE PAVEMENT (CLASS "A" 3000 PSI)

STATE OF TEXAS
CHRISTOPHER M. JONES
82681
LICENSED
PROFESSIONAL ENGINEER
8/29/14

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NO.	DATE	REVISION

Pacheco Koch
DALLAS ▪ FORT WORTH ▪ HOUSTON
8350 N. CENTRAL EXPWY. SUITE 1000
DALLAS, TX 75206 972.235.3031
TX REG. ENGINEERING FIRM F-469
TX REG. SURVEYING FIRM LS-100080-00

PAVING PLAN & DETAILS

CELINA FIRE STATION NO.1

PRESTON ROAD AND OKLAHOMA DRIVE

CITY OF CELINA

COLLIN COUNTY, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
LHN	JHB	AUG 2014	1"=30'			C6.1

PK FILE: 2963-13.342

DWG FILE: 2963-13.342EP.DWG
(DIESEL evaluation failed)

CELINA FIRE STATION NO.1 - P-201403-01

JSCOTT
08/28/2014 – 4:35PM
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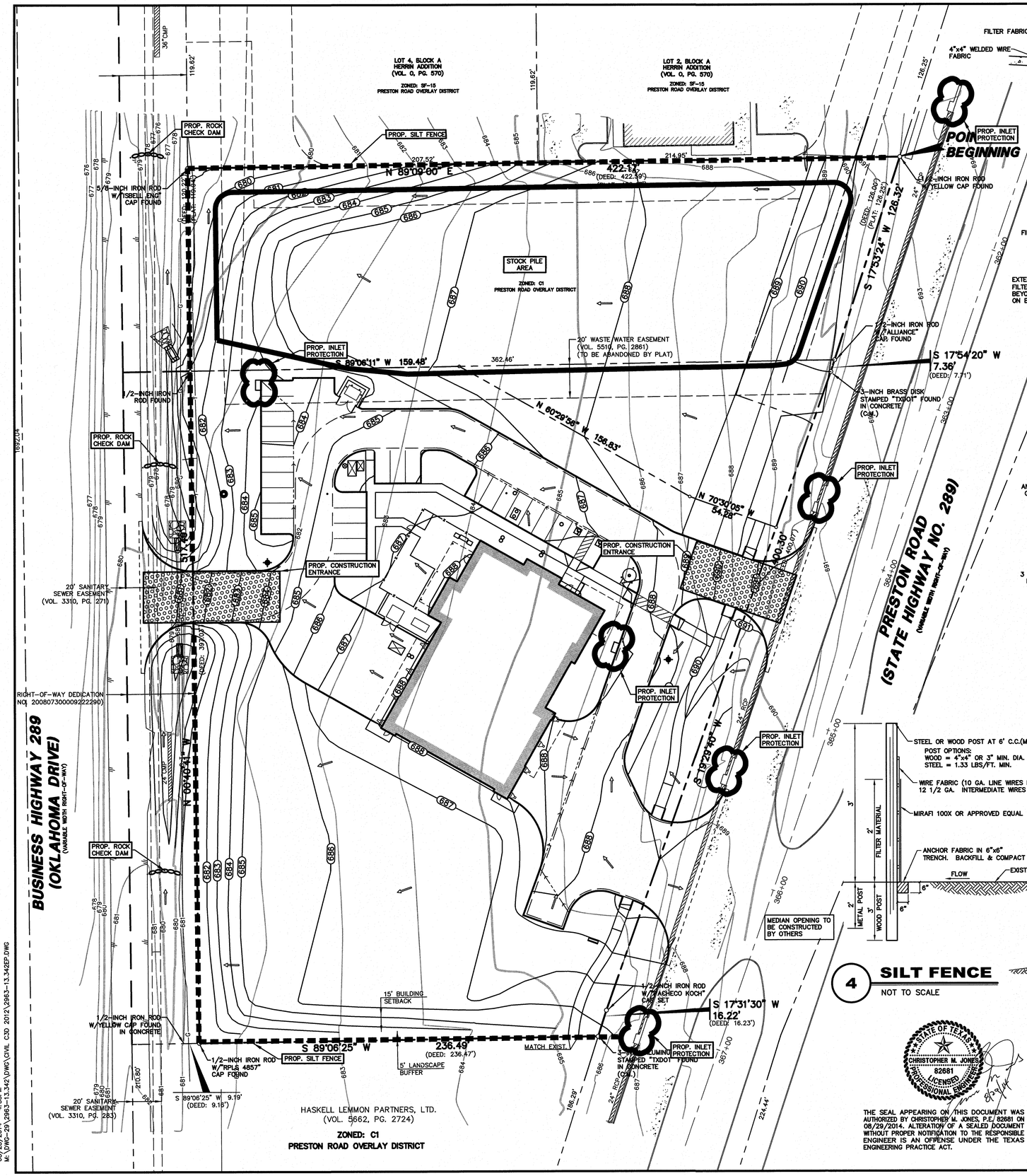

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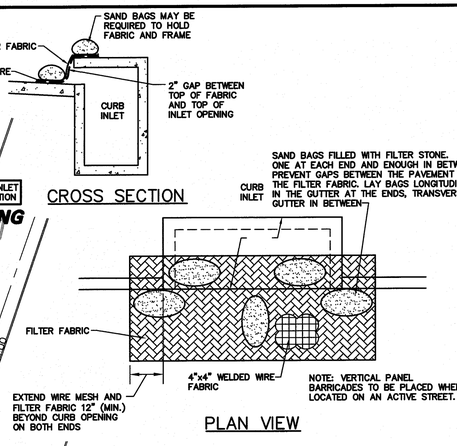
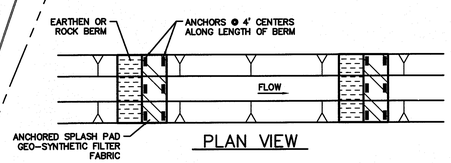


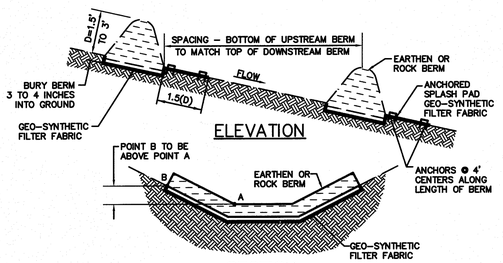
PLAN VIEW

1 CURB INLET PROTECTION

NOT TO SCALE

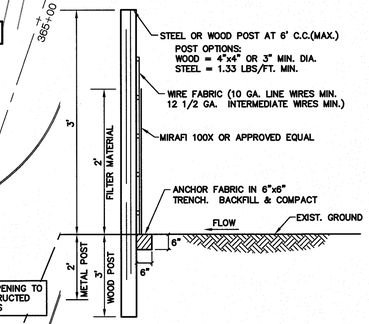


PLAN VIEW



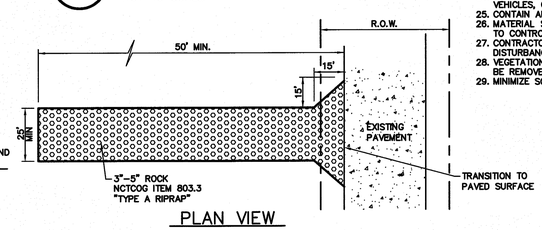
ELEVATION

SECTION

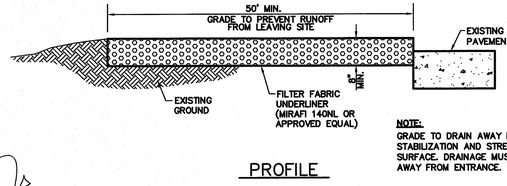


2 CHECK DAMS

NOT TO SCALE



PLAN VIEW



NOTE:
GRADE TO DRAIN AWAY FROM STABILIZATION AND STREET PAVED SURFACE. DRAINAGE MUST FLOW AWAY FROM ENTRANCE.

PROFILE

3 STABILIZED CONSTRUCTION ENTRANCE

NOT TO SCALE

4 SILT FENCE

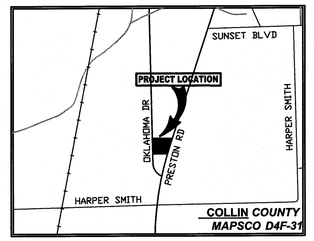
NOT TO SCALE

LEGEND

B.	BOLLARD
EM	ELECTRIC METER
PP	POWER POLE
LS	LIGHT STANDARD
WM	WATER METER
WV	WATER VALVE
ICV	IRRIGATION CONTROL VALVE
FH	FIRE HYDRANT
CO	CLEANOUT
MH	MANHOLE
TSC	TRAFFIC SIGNAL CONTROL
TSP	TRAFFIC SIGNAL POLE
TELE	TELEPHONE BOX
	FLOOD LIGHT
FP	FLAG POLE
SIGN	TRAFFIC SIGN
IRS	1/2-INCH IRON ROD W/"PACHECO KOCH" CAP SET
(C.M.)	CONTROLLING MONUMENT
	PROPERTY LINE
X	FENCE
613	EXISTING CONTOUR
577	PROPOSED CONTOUR
	PROPOSED DRAINAGE FLOW DIRECTION
	PROPOSED CONSTRUCTION ENTRANCE
	INLET PROTECTION
	SILT FENCE (LIMITS OF DISTURBED AREA)
	ROCK CHECK DAM

0 15 30 60 90

GRAPHIC SCALE IN FEET



VICINITY MAP

(NOT TO SCALE)

POLLUTION CONTROL GENERAL NOTES

1. THIS PLAN HAS BEEN PREPARED TO PROVIDE MEANS TO PREVENT OR MINIMIZE POLLUTION OF STORM WATER.
2. THE CONSTRUCTION ACTIVITY INCLUDED IN THIS PLAN WILL INCLUDE:
   - 2.A. CLEARING AND GRUBBING
   - 2.B. ROUGH GRADING
   - 2.C. FINAL GRADING
   - 2.D. UTILITY INSTALLATION
   - 2.E. PAVEMENT INSTALLATION
   - 2.F. BUILDING CONSTRUCTION
3. THE TOTAL ESTIMATED LAND AREA TO BE DISTURBED IS 4.30 ACRES.
4. THE ESTIMATED RUNOFF COEFFICIENT UPON COMPLETION OF THE PROJECT IS 0.90.
5. THE STORM WATER EXITING THE SITE IS COLLECTED IN AN EXISTING DRAINAGE SYSTEM MAINTAINED BY THE CITY OF CELINA, TEXAS.
6. THE SOILS ON THE SITE ARE GENERALLY EXPANSIVE CLAYS.
7. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN EROSION PROTECTION AROUND THE WORK AREA PERIMETER AND AT ALL INLET MOUTHS PRIOR TO COMMENCING WORK AND UNTIL THE WORK AREA HAS BEEN STABILIZED.
8. THE CONTRACTOR WILL REMOVE ALL EXCESS SOIL FROM CONSTRUCTION VEHICLES PRIOR TO EXITING THE SITE.
9. ALL DISTURBED AREAS WHICH WILL NOT BE RE-DISTURBED MUST BEGIN BEING STABILIZED IMMEDIATELY BY THE CONTRACTOR TO CONTROL EROSION. THE CONTRACTOR HAS 14 DAYS TO HAVE ALL STABILIZATION AND EROSION CONTROL DEVICES IN PLACE.
10. THE CONTRACTOR SHALL UNDERTAKE PROPER METHODS TO REDUCE DUST GENERATION FROM THE SITE.
11. THE CONTRACTOR MUST COMPLY WITH FEDERAL, STATE AND LOCAL REGULATIONS REGARDING SEDIMENT AND EROSION CONTROL.
12. A COPY OF THIS PLAN, AS PART OF THE SWPPP, MUST BE KEPT AT THE CONSTRUCTION FACILITY DURING THE ENTIRE CONSTRUCTION PERIOD.
13. CONSTRUCTION SEQUENCING MUST PROVIDE FOR THE EXCAVATION OF AN ON-SITE BASIN AS A SEDIMENT COLLECTION BASIN PRIOR TO THE DISTURBANCE OF GREATER THAN 10 ACRES OF LAND.
14. ALL FINISHED GRADES ARE TO BE HYDROMULCHED, SPOT SODDED OR SEEDED AND WATERED UNTIL GROWTH IS ESTABLISHED ON AND OFF-SITE.
15. A PIT OR WASH OUT BASIN SHALL BE CONSTRUCTED ON-SITE BY THE CONTRACTOR FOR THE "WASH OUT" OF CONCRETE TRUCKS.
16. A BERM OR OTHER SPILL PROTECTION MEASURE SHALL BE USED FOR ANY TEMPORARY FUEL STORAGE TANK ON-SITE.
17. IF "SUMP" PUMPS ARE USED TO REMOVE WATER FROM EXCAVATED AREAS, FILTER THE DISCHARGE TO REMOVE SEDIMENT AND OTHER POLLUTANTS BEFORE THE WATER LEAVES THE SITE.
18. TO PREVENT DAMAGE TO VEGETATION IN DOWNSTREAM WATER COURSES, LIMIT ANY PROPOSED LIME STABILIZATION OPERATIONS TO THAT WHICH CAN BE MIXED AND COMPACTED BY THE END OF EACH WORK DAY. GEOTEXTILE FABRIC IS NOT EFFECTIVE IN FILTERING LIME SINCE THE GRAIN SIZE IS SMALLER THAN THE OPENING IN THE FABRIC.
19. VEHICLE PARKING AREAS, STAGING AREAS, STOCKPILES, SPOILS, ETC. SHALL BE LOCATED SUCH THAT THEY WILL NOT ADVERSELY AFFECT STORM WATER QUALITY. OTHERWISE, COVERING OR ENCIRCLING THE AREAS WITH PROTECTIVE MEASURES SHALL BE NECESSARY.
20. STORE ALL TRASH AND BUILDING MATERIALS WASTE IN AN ENCLOSURE UNTIL IT CAN BE PROPERLY DISPOSED OF AT THE APPROPRIATE OFF-SITE FACILITIES.
21. TRACKING OF SEDIMENT OFF-SITE BY TRUCK TRAFFIC SHALL BE HANDLED THROUGH REGULAR CLEANING.
22. INSPECTIONS SHALL BE CONDUCTED BY THE PERMITEE ONCE EVERY TWO WEEKS AND WITHIN 24 HOURS AFTER STORM EVENT OF 0.5 INCHES OR MORE OR ONCE PER WEEK ON A SPECIFIC PRE-DEFINED DAY. THE INSPECTIONS WILL INCLUDE:
    - 22.A. DISTURBED AREAS OF THE SITE THAT HAVE NOT BEEN STABILIZED.
    - 22.B. AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION.
    - 22.C. STRUCTURAL CONTROL MEASURES.
    - 22.D. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE.
    - 22.E. IDENTIFICATIONS OF MEASURES THAT NEED TO BE MAINTAINED, MODIFIED, OR ADDED TO CORRECT PROBLEMS.
23. CONTRACTOR SHALL MINIMIZE THE EXPOSURE OF BUILDING MATERIALS, BUILDING PRODUCTS, CONSTRUCTION WASTES, TRASH, LANDSCAPE MATERIALS, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, SANITARY WASTE AND OTHER MATERIALS PRESENT ON THE SITE TO PRECIPITATION AND TO STORMWATER.
24. PERMANENTLY STABILIZE EXPOSED SOIL, WITHIN AND ADJACENT TO THE SITE, THAT IS DISTURBED BY VEHICLES, GRADING AND OTHER CONSTRUCTION ACTIVITIES.
25. CONTAIN ALL RUNOFF FROM MATERIAL USED IN SUBGRADE STABILIZATION.
26. MATERIAL STOCKPILES SHALL BE COVERED BY PLASTIC OR SURROUNDED BY EROSION CONTROL STRUCTURES TO CONTROL SEDIMENT RELEASES.
27. CONTRACTOR SHALL PROTECT SLOPES IN EXCESS OF 15% IN ORDER TO MINIMIZE EROSION OF SOILS AND THE DISTURBANCE OF SLOPES.
28. VEGETATION TO BE PRESERVED WHERE EVER POSSIBLE TO HELP REDUCE EROSION. WHERE VEGETATION MUST BE REMOVED, PRESERVE NATIVE TOPSOIL IN ALL AREAS POSSIBLE.
29. MINIMIZE SOIL COMPACTION IN AREAS INTENDED FOR POST CONSTRUCTION PERVIOUS SURFACE.

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY CHRISTOPHER M. JONES, P.E/ 82681 ON 08/29/2014. ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT.

P-201403-01

NO.	DATE	REVISION

Pacheco Koch
DALLAS • FORT WORTH • HOUSTON
8350 N. CENTRAL EXPWY. SUITE 1000
DALLAS, TX 75206 972.235.3031
TX REG. ENGINEERING FIRM F-469
TX REG. SURVEYING FIRM LS-100080-00

EROSION CONTROL PLAN & DETAILS

CELINA FIRE STATION NO.1

PRESTON ROAD AND OKLAHOMA DRIVE

CITY OF CELINA

COLLIN COUNTY, TEXAS

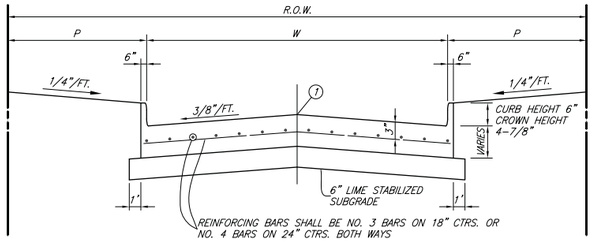
DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
LHN	JHB	AUG 2014	1"=30'			C7.1

PK FILE: 2963-13.342

DWG FILE: 2963-13.342EP.DWG (DIESEL evaluation failed)

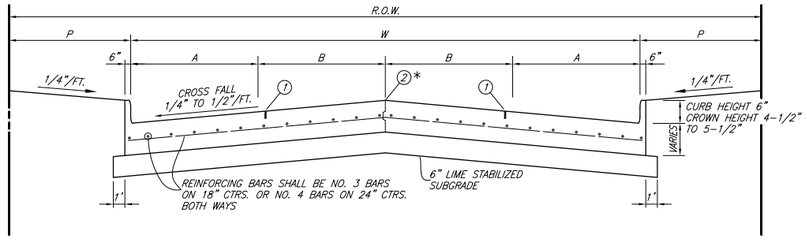
CELINA FIRE STATION NO.1 - P-201403-01

JSCOTT
08/29/2014 - 4:35PM
M:\DWG-29\2963-13.342\DWG\CIVIL CSD 2012\2963-13.342EP.DWG



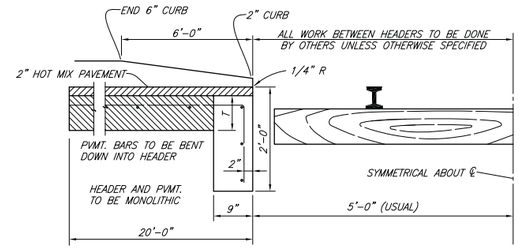
REGULAR SECTION

R2U
C2U



REGULAR SECTION

C4U
M4U
M5U



RAIL HEADER

(RR-HEADER)

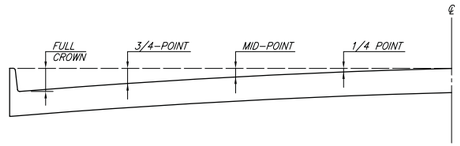
(PARA_SECT)

LEGEND

① – SAWED LONGITUDINAL DUMMY JOINT

② – CONSTRUCTION JOINT (FULL WIDTH PVMT. IS ALLOWED WHERE APPROVED BY CITY)

(LEGEND_PVMT2)



ROADWAY WIDTH (W)	TOTAL CROWN HEIGHT	3/4 POINT	MID-POINT	1/4 POINT
26'	4"	2-1/4"	1"	1/4"
36'	6"	3-3/8"	1-1/2"	3/8"
44'	6"	3-3/8"	1-1/2"	3/8"

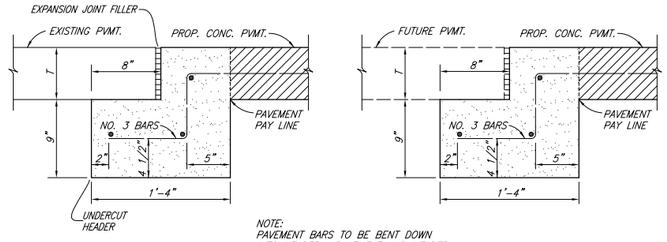
TABLE OF CROWN HEIGHTS AND ORDINATES FOR VARIOUS PARABOLIC SECTIONS

SLIP-FORM PAVEMENT MUST MEET CROWN GRADES AT GUTTERS, AT MID-POINTS & ℄

PARABOLIC ROADS ONLY TO BE CONSTRUCTED WITH SLIP FORM PAVERS

(PARA-TABLE)

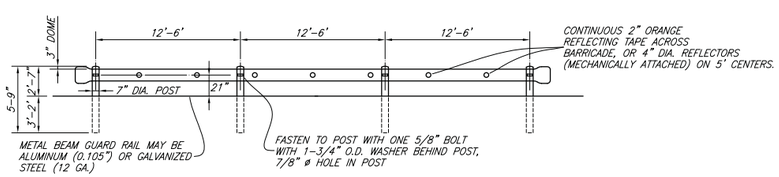
R2U, C2U, C4U, M4U & M5U PAVING SECTIONS SHALL HAVE A MINIMUM PAVEMENT THICKNESS OF 6 INCHES.



NOTE:
PAVEMENT BARS TO BE BENT DOWN INTO HEADER. PAVEMENT AND HEADER SHALL BE MONOLITHIC.

STREET HEADER

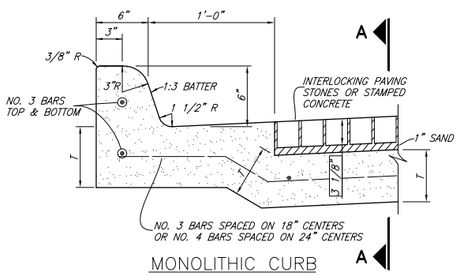
(HEADER)



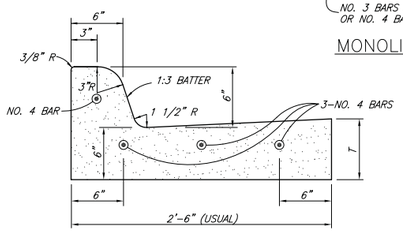
NON CONSTRUCTION BARRICADES (PERMANENT BARRICADES) SHALL CONSIST OF TxDOT GF(TD)-87 METAL BEAM GUARD FENCE WITH TERMINAL CONNECTOR SECTIONS AT EACH END. PERMANENT BARRICADES SHALL BE MANUFACTURED AND CONSTRUCTED IN ACCORDANCE WITH TxDOT DETAILS. BARRICADE SHALL EXTEND FROM OUTSIDE CURB TO OUTSIDE CURB.

TYPICAL PERMANENT BARRICADE DETAIL

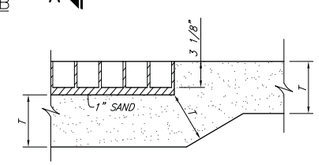
(PERM-BARRICADE)



MONOLITHIC CURB



SEPARATE CURB AND GUTTER



SECTION A-A

PAVING STONES SHALL BE PER NCTCOG ITEMS 2.3.7 AND 5.8 OF SPECIAL PROVISIONS

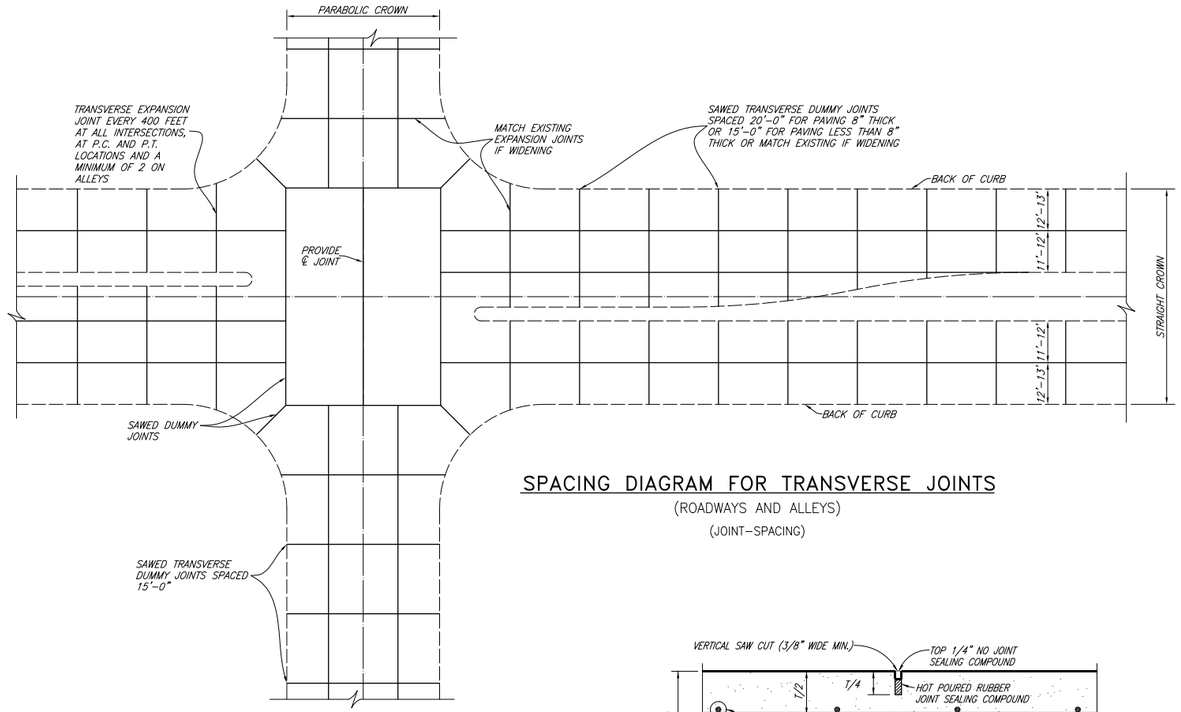
CURB AND CURB AND GUTTER

(CURB-GUT)

CITY OF CELINA, TEXAS

PAVING

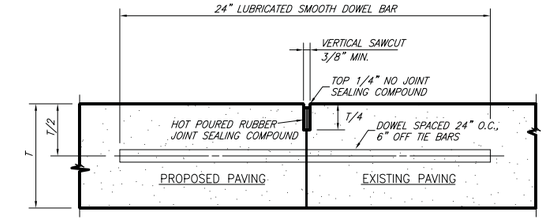
STANDARD DETAILS – CS1



SPACING DIAGRAM FOR TRANSVERSE JOINTS

(ROADWAYS AND ALLEYS)

(JOINT–SPACING)

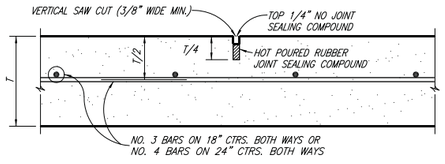


NOTE:

1. T–8" AND GREATER NO. 6 BAR, T–6" AND LESS NO. 5 BAR
2. LONGITUDINAL BUTT CONSTRUCTION MAY BE UTILIZED IN PLACE OF LONGITUDINAL HINGED (KEYWAY) JOINT AT CONTRACTORS OPTION.
3. DOWEL BARS SHALL BE DRILLED INTO PAVEMENT HORIZONTALLY BY USE OF A MECHANICAL RIG. HAND DRILLING NOT ACCEPTABLE. DAMAGE TO EXISTING PAVEMENT SHALL BE REMOVED BY CONTRACTOR AND JOINT CONSTRUCTED AT CONTRACTORS EXPENSE.
4. DOWEL BAR SHOWN IS IN ADDITION TO TIE BARS (12" O.C.–6" OFF DOWELS).
5. TIE BARS SHALL BE NO. 5 BAR DEFORMED. TIE BAR SHALL HAVE A LENGTH OF 24 INCHES.

LONGITUDINAL BUTT JOINT

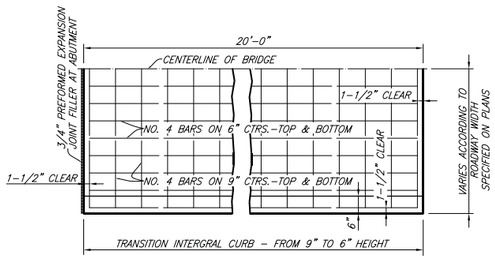
(BUTTJNT)



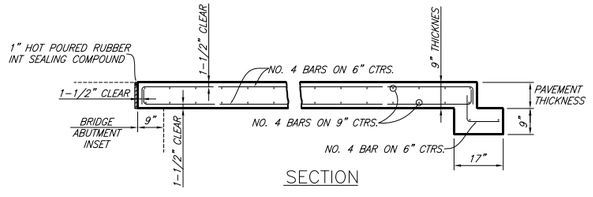
TRANSVERSE JOINTS SPACED 15 FT. C.–C. (MAX.)
LONGITUDINAL JOINTS SPACED 20 FT. C.–C. (MAX.)

SAWED DUMMY JOINT

(DUMMYJNT)



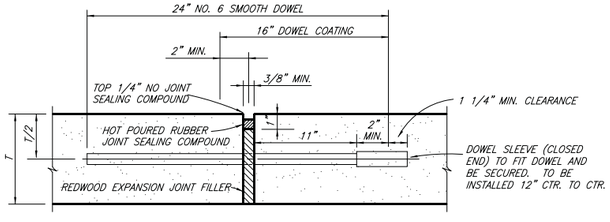
PLAN



SECTION

BRIDGE APPROACH SLAB

(APPROACHSLAB)

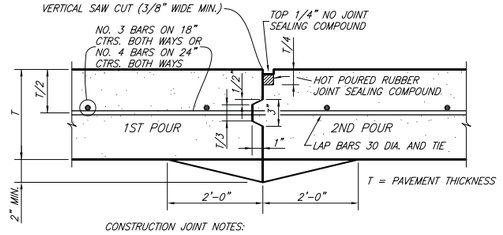


TRANSVERSE EXPANSION JOINT NOTES:

1. DOWELS AND REINFORCING BARS SHALL BE SUPPORTED BY AN APPROVED DEVICE.
2. TRANSVERSE EXPANSION JOINTS SHALL BE SPACED AT 400 FT. MAXIMUM AND AT ALL INTERSECTIONS.

TRANSVERSE EXPANSION JOINT

(EXPJNT)



CONSTRUCTION JOINT NOTES:

1. CONTRACTOR SHALL PROTECT KEYWAY PRIOR TO SECOND POUR. IF LONGITUDINAL KEYWAY IS DAMAGED, CONTRACTOR SHALL REPAIR WITH THE USE OF LONGITUDINAL BUTT JOINT (DRILL DOWELS INTO FIRST POUR).
2. THICKENED EDGES ARE REQUIRED FOR FUTURE WIDENING ONLY.

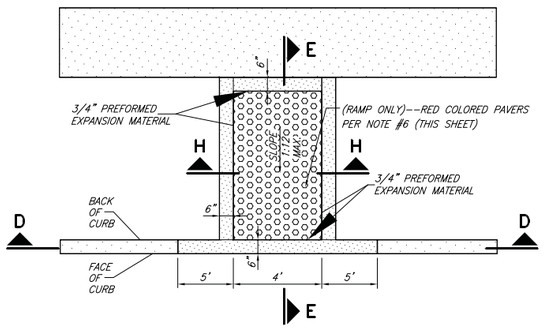
CONSTRUCTION JOINT

(CONSTJNT)

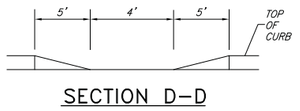
CITY OF CELINA, TEXAS

PAVING

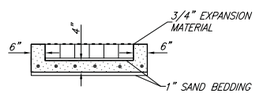
STANDARD DETAILS – CS2



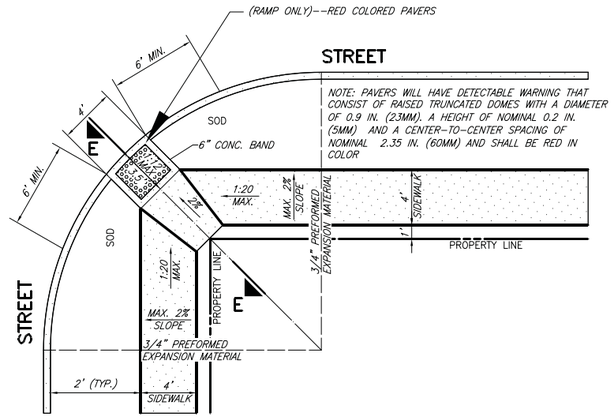
BARRIER FREE RAMP @ STRAIGHT CURB



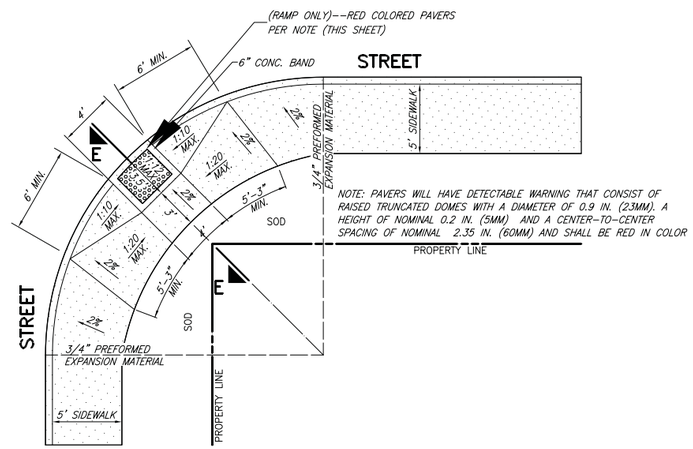
SECTION D–D



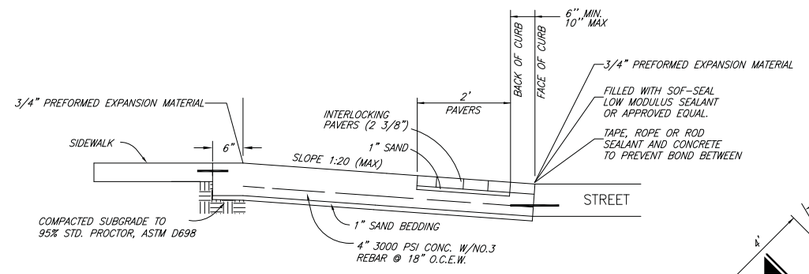
SECTION H–H



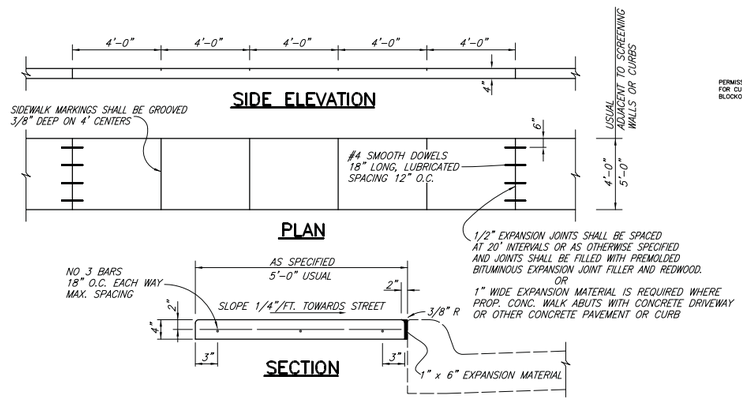
RAMP FOR 4 FEET SIDEWALK AWAY FROM CURB



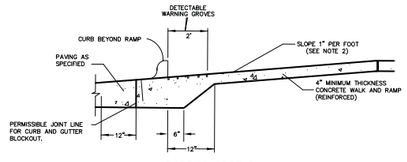
RAMP FOR 5 FEET SIDEWALK NEXT TO CURB



SECTION E–E
(BARRIER_FREE)



REINFORCED CONCRETE SIDEWALK
(SIDEWALK)

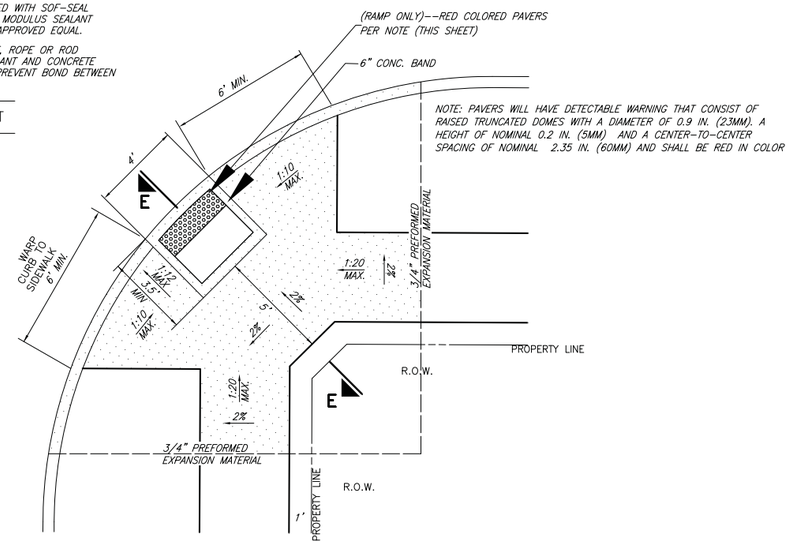


BARRIER FREE RAMP
TYPICAL SECTION THRU RESIDENTIAL RAMP
NTS

GENERAL NOTES:

1. BARRIER FREE RAMPS SHALL BE CONSTRUCTED AS EXTENSIONS OF STANDARD CONCRETE SIDEWALKS EXCEPT AS NOTED IN THESE DETAILS.
2. MAXIMUM SLOPE ON BARRIER FREE RAMPS SHALL NOT EXCEED 1" PER FOOT AT ANY LOCATION.
3. DESIGNS SHOWN ARE FOR 6" CURBS. FOR CURBS WITH HEIGHT GREATER THAN 6", DIMENSIONS SHALL BE INCREASED PROPORTIONATELY.
4. STREETS ON STEEP GRADE WILL REQUIRE LONGER TRANSITIONS ON UPGRADE SIDE.
5. LOCATION OF BARRIER FREE RAMP MAY BE SHIFTED TO CLEAR OBSTRUCTIONS WITH THE APPROVAL OF THE CITY ENGINEER.
6. ACCESS RAMP FROM STREET GRADE SHALL HAVE DETECTABLE WARNING GROVES THAT SHALL BE 1/4" TO 3/4" WIDE, 1/8" DEEP, SPACED 2" APART.
7. ALL LANDINGS ARE TO BE 5'X5' AREAS WITH 2% (MAX) SLOPES IN ANY DIRECTION

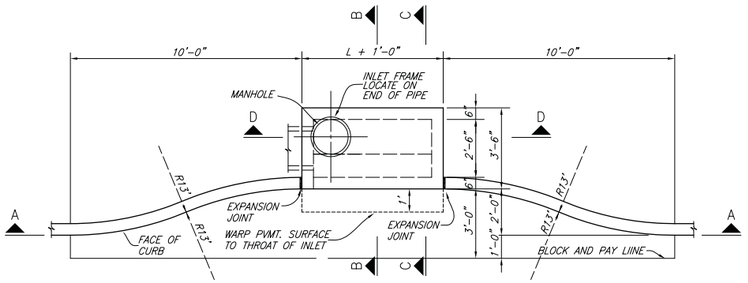
RAMP WITH DOMES



DETAIL 'A'
BARRIER FREE RAMP
STREET INTERSECTION
PLAN VIEW
NTS

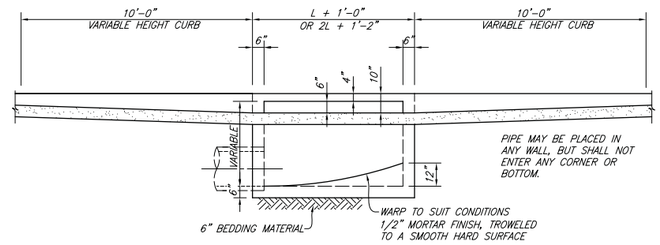
CITY OF CELINA, TEXAS

PAVING
STANDARD DETAILS – CS3



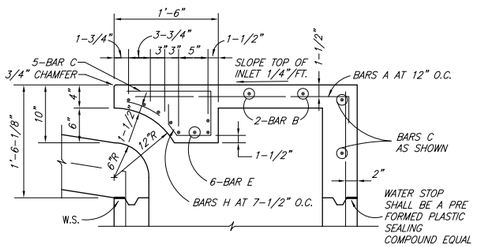
PLAN – RECESSED INLET

(REC–INT1)



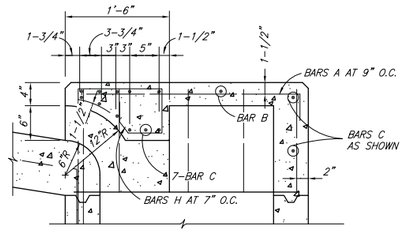
SECTION A–A–RECESSED AND STANDARD INLETS
4, 6, 8, AND 10 FOOT INLETS

(PLAN–10)



SECTION C–C

(SECT_C–C)



NOTE: FOR ADDITIONAL INFORMATION SEE SECTION C–C

SECTION E–E

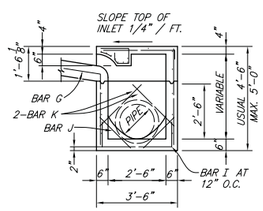
(SECT_E–E)

NOTES:

THE FLOOR OF THE EXCAVATION FOR INLET BOX MUST PROVIDE A FIRM, LEVEL BED FOR THE BASE SECTION TO REST UPON.

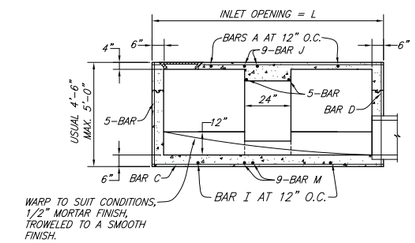
A MINIMUM OF 6 INCHES OF 1" DIAMETER (MAXIMUM) ROCK OR GRAVEL SHALL BE USED TO PREPARE THE BEDDING TO FINAL GRADE OR LIEU OF THIS, AT LEAST 6 INCHES OF 2–SACK CEMENT STABILIZED SAND SHALL BE USED TO PREPARE THE BEDDING TO GRADE. CEMENT STABILIZED–SAND SHALL BE ALLOWED TO SET BY KEEPING HOLE PUMPED DRY.

AFTER CASING HAS BEEN INSTALLED ON THE PROPER BEDDING, THE BACKFILL MATERIAL, WHICH IS FREE FLOWING AND CLEAR OF ROCKS, IN EXCESS OF 4" DIAMETER AND OTHER LUMPS WHICH WOULD PROHIBIT PROPER COMPACTION, SHALL BE COMMENCED IN LIFTS OF NO MORE THAN 18". THE MATERIAL USED FOR BACKFILL SHOULD BE A TYPE SUITABLE TO OBTAIN THE DENSITY REQUIREMENTS FOR THE SPECIFIC JOB.



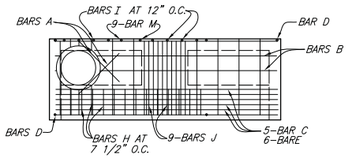
SECTION B–B

(SECT_B–B)



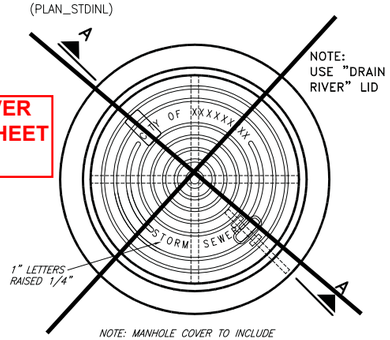
SECTION A–A – STANDARD AND RECESSED INLETS

(SECT_A–A1)



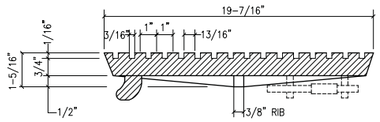
PLAN – STANDARD INLET

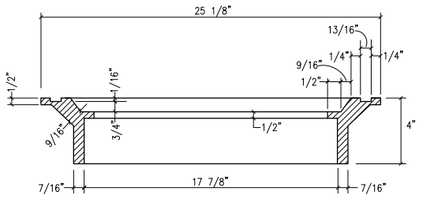
(PLAN_STDINL)



FOR LID COVER REFER TO SHEET C5.2

PLAN OF COVER

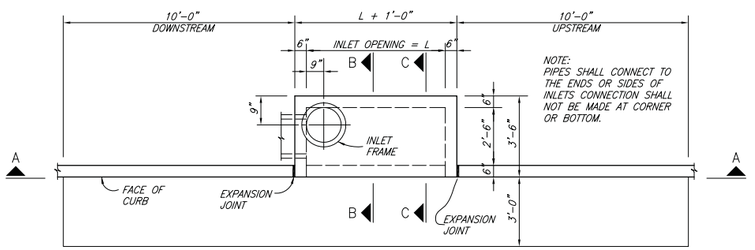




SECTION OF FRAME AND COVER SECTION A–A
INLET FRAME AND COVER

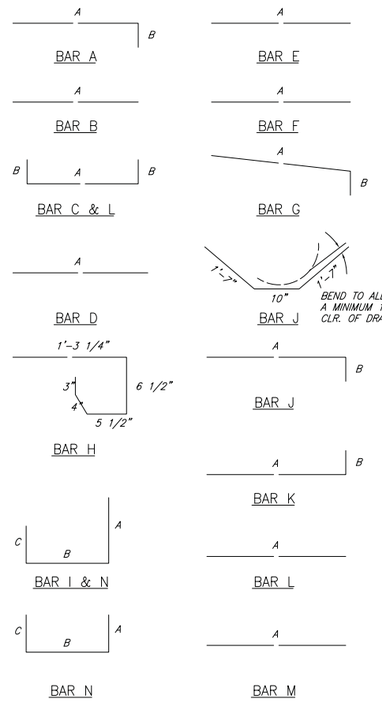
BASS & HAYS COVER 55#, FRAME 45# OR EQUAL

(MH–COV4)



PLAN – STANDARD INLET
4, 6, 8 AND 10 FOOT INLETS

(STDINLT1)



BAR DIAGRAMS

(BARDIAG)

REINFORCING STEEL SCHEDULE

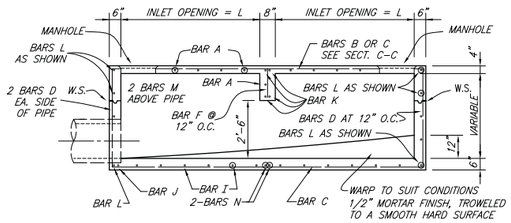
DIMENSIONS SHOWN ARE FOR MAXIMUM SIZE INLETS

INLET LENGTH	BAR TYPE	BAR DIA. (1/8 IN.)	NO. REQ'D	BAR DIMENSIONS A	B	C
4	A	3	6	3'–2"	0'–3"	–
	B	3	1	2'–10"	–	–
	C	4	15	4'–8"	0'–6"	–
	D	4	5	4'–8"	–	–
	F	4	1	3'–2"	–	–
	G	3	5	2'–0"	1'–3"	–
	H	3	6	*	*	*
	N	3	3	3'–2"	3'–2"	3'–2"
6	A	3	9	3'–2"	0'–3"	–
	B	3	1	4'–10"	–	–
	C	4	15	6'–8"	0'–6"	–
	D	4	5	4'–8"	–	–
	F	4	1	3'–2"	–	–
	G	3	5	2'–0"	1'–3"	–
	H	3	9	*	*	*
	N	3	3	3'–2"	3'–2"	3'–2"
8	A	3	12	3'–2"	0'–3'	–
	B	4	1	6'–10"	–	–
	C	4	15	8'–8"	0'–6"	–
	D	4	5	4'–8"	–	–
	F	4	1	3'–2"	–	–
	G	3	5	2'–0'	1'–3"	–
	H	3	12	*	*	*
	N	3	3	3'–2"	3'–2"	3'–2"
10	A	3	13	3'–2"	0'–3'	–
	B	3	2	8'–10"	–	–
	C	4	16	10'–8"	0'–6"	–
	D	4	4	4'–8"	–	–
	E	5	6	10'–8"	–	–
	G	3	5	2'–0"	1'–3"	–
	H	3	14	*	*	*
	I	4	8	4'–8"	3'–2"	3'–2"
	L	4	5	4'–3"	–	–

* SEE DIAGRAM FOR DIMENSIONS.
4', 6', 8' AND 10' INLETS

CITY OF CELINA, TEXAS

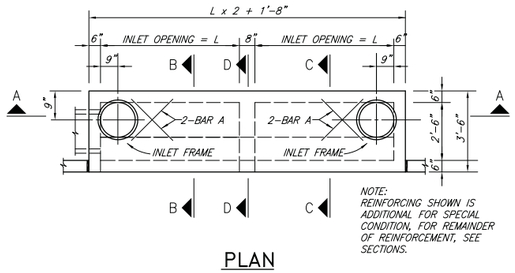
DRAINAGE
STANDARD DETAILS – CS4



SECTION A–A

12, 14, 16 AND 20 FOOT INLETS

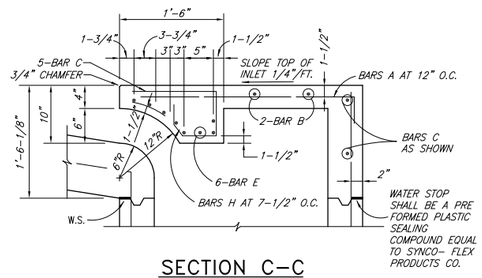
(SECT_A–A)



PLAN

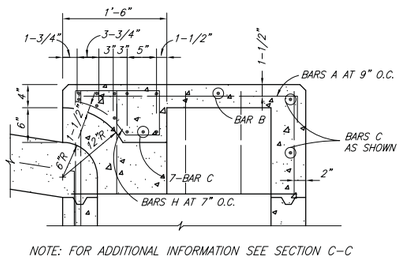
20 FOOT INLETS

(PLAN_20)



SECTION C–C

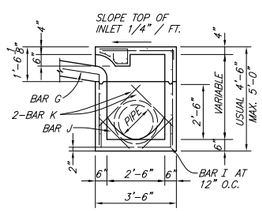
(SECT_C–C)



NOTE: FOR ADDITIONAL INFORMATION SEE SECTION C–C

SECTION D–D

(SECT_D–D)



SECTION B–B

(SECT_B–B)

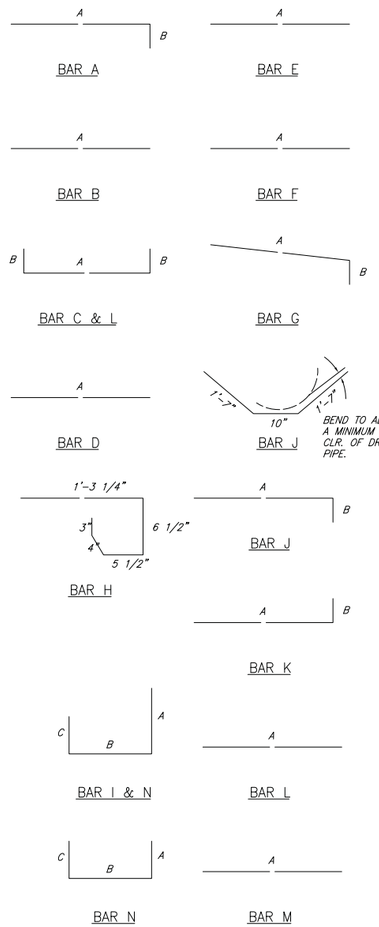
DOUBLE INLETS

DIMENSIONS SHOWN ARE FOR MAXIMUM SIZE INLETS

INLET LENGTH	BAR TYPE	BAR DIA. (1/8 IN.)	NO. REQ'D	BAR DIMENSIONS A	B	C
6 FT.	A	3	15	3'-2"	0'-6"	–
	B	3	2	11'-6"	–	–
	C	4	16	13-4"	0'-6"	–
	D	4	9	4'-8"	–	–
	E	5	6	13-4"	–	–
	F	4	5	1'-2"	–	–
	G	3	12	2'-0"	1'-3"	–
	H	3	26	*	*	*
	I	4	12	4'-8"	3'-2"	3'-2"
	J	5	1	*	*	*
	K	5	6	3'-2"	0'-6"	–
	L	4	11	3'-2"	0'-6"	–
	M	4	2	3'-0" **	–	–
	N	4	2	4'-8"	3'-2"	4'-8"
7 FT.	A	3	17	3'-2"	0'-6"	–
	B	3	2	13'-6"	–	–
	C	4	16	15'-4"	0'-3'	–
	D	4	9	4'-8"	–	–
	E	5	6	15'-4"	–	–
	F	4	5	1'-2"	–	–
	G	3	15	2'-0"	1'-3"	–
	H	3	32	*	*	*
	I	4	14	4'-8"	3'-2"	3'-2"
	J	5	1	*	*	*
	K	5	6	3'-2"	0'-6"	–
	L	4	11	3'-2"	0'-6"	–
	M	4	2	3'-0" **	–	–
	N	4	2	4'-8"	3'-2"	4'-8"
8 FT.	A	3	19	3'-2"	0'-6"	–
	B	3	2	15'-6"	–	–
	C	4	16	17'-4"	0'-6"	–
	D	4	9	4'-8"	–	–
	E	5	6	17'-4"	–	–
	F	4	5	1'-2"	–	–
	G	3	12	2'-0"	1'-3"	–
	H	3	26	*	*	*
	I	4	16	4'-8"	3'-2"	3'-2"
	J	5	1	*	*	*
	K	5	6	3'-2"	0'-6"	–
	L	4	11	3'-2"	0'-6"	–
	M	4	2	3'-0" **	–	–
	N	4	2	4'-8"	3'-2"	4'-8"
10 FT.	A	3	23	3'-2"	0'-6"	–
	B	3	2	19'-6"	–	–
	C	4	16	21'-4"	0'-6"	–
	D	4	9	4'-8"	–	–
	E	5	6	21'-4"	–	–
	F	4	5	1'-2"	–	–
	G	3	15	2'-0"	1'-3"	–
	H	3	32	*	*	*
	I	4	20	4'-8"	3'-2"	3'-2"
	J	5	1	*	*	*
	K	5	6	3'-2"	0'-6"	–
	L	4	11	3'-2"	0'-6"	–
	M	4	2	3'-0" **	–	–
	N	4	2	4'-8"	3'-2"	4'-8"

* SEE DIAGRAM FOR DIMENSIONS.
** FIELD CUT AS REQUIRED TO ACCOMMODATE DRAIN PIPE 16' AND 20' INLETS

REINFORCING STEEL SCHEDULE



△ BEND TO ALLOW A MINIMUM 1 1/2" CIR. OF DRAIN PIPE
* SEE DIAGRAMS FOR DIMENSIONS
** FIELD CUT AS REQUIRED TO ACCOMODATE DRAIN PIPE

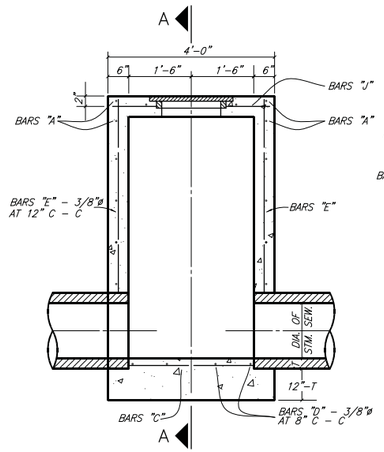
BAR BENDING DIAGRAMS

(BARLIST2)

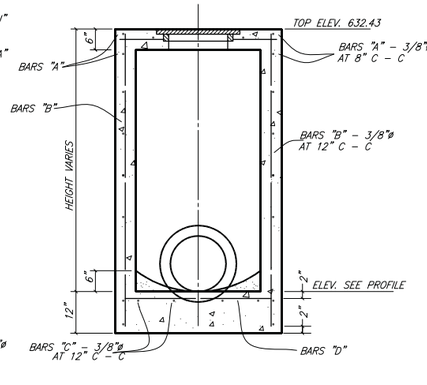
CITY OF CELINA, TEXAS

DRAINAGE

STANDARD DETAILS – CS5



ELEVATION

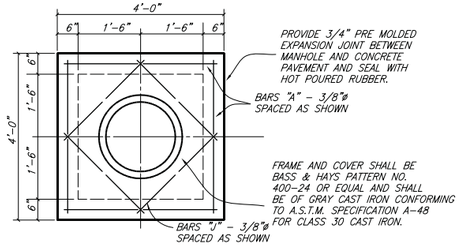


SECTION A–A

STORM SEWER TYPE A MANHOLE

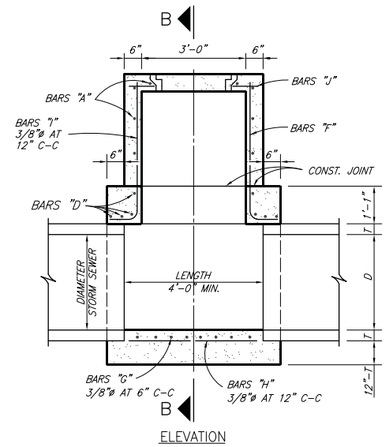
MAX. PIPE SIZE 30"

(TYPEAMH)

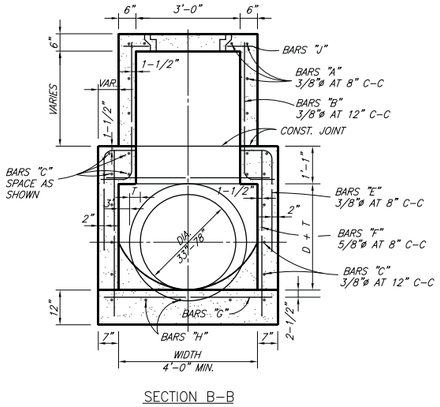


TOP PLAN
TYPE A & TYPE B
STORM SEWER MANHOLE

(MH_TOP)



ELEVATION

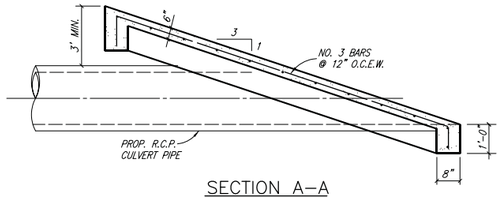


SECTION B–B

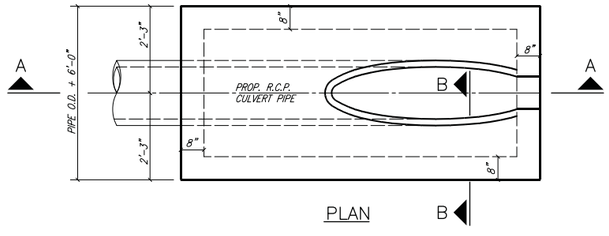
TYPE B STORM SEWER MANHOLE

MAX. PIPE SIZE 78"

(TYPEBMH)

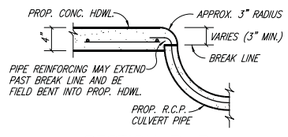


SECTION A–A

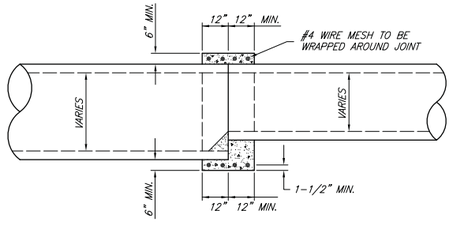


SLOPED CONCRETE HEADWALL

(SLOPEHWL)



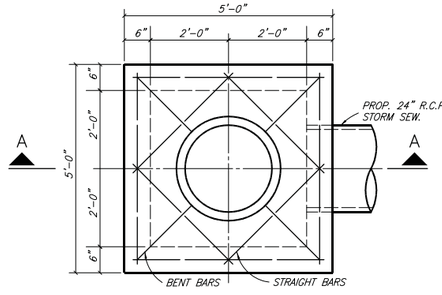
SECTION B–B



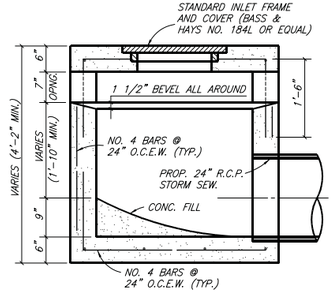
DETAIL OF CONCRETE COLLAR FOR R.C.P. OR R.C.A.P. CONNECTIONS

INSIDE JOINT SHALL BE CONCRETE MORTAR

(CONCCOL)



PLAN



SECTION A–A

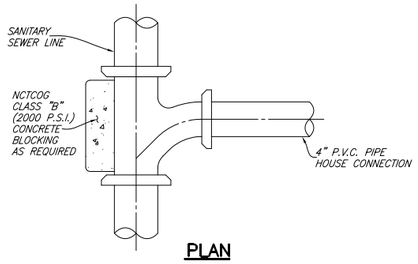
STANDARD DROP INLET

(DROPINLET)

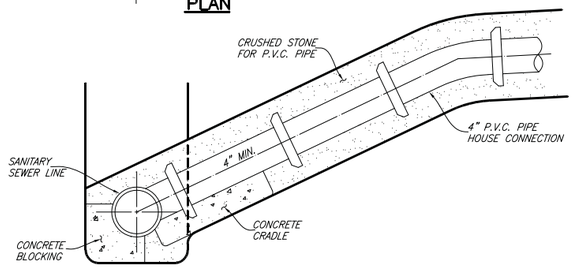
CITY OF CELINA, TEXAS

DRAINAGE

STANDARD DETAILS – CS6



PLAN

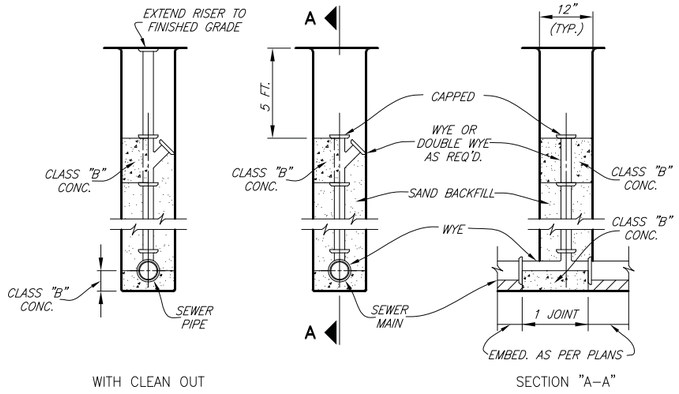


SECTION

TYPICAL SEWER HOUSE SERVICE CONNECTION

SANITARY SEWER CLEANOUT BOOTS SHALL BE BASS & HAYS # 339 OR APPROVED EQUAL.

(HOUSE_SERVICE)

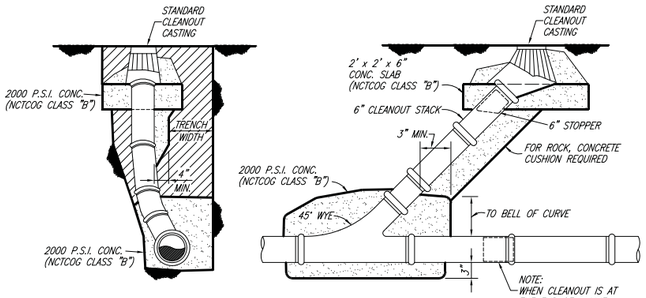


WITH CLEAN OUT

SECTION "A–A"

DEEP CUT CLEANOUT

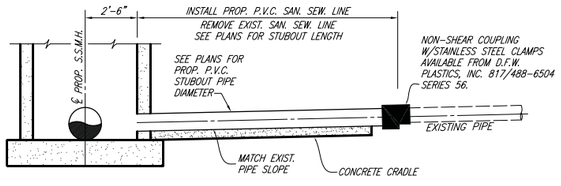
(DEEPCUT–CO)



STANDARD CLEANOUT

NO SCALE

(CLEANOUT)

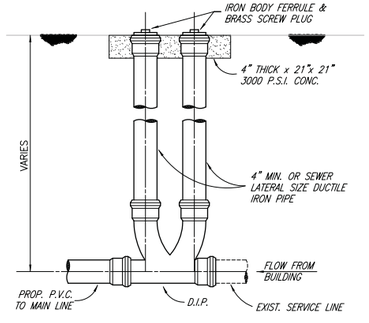


TYPICAL STUBOUT CONNECTION

NO SCALE

NOTE:
MATCH SOFFITS UPSTREAM OF MANHOLE
MATCH FLOW LINES DOWNSTREAM OF MANHOLE

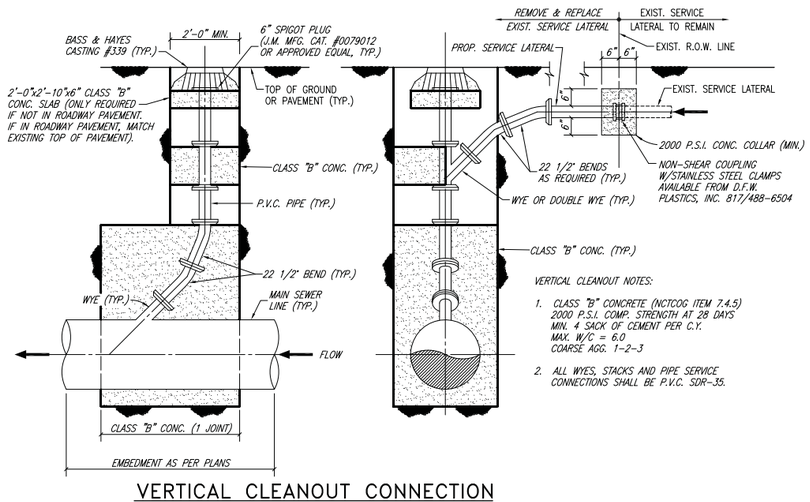
(STUBOUT)



TYPICAL TWO WAY CLEANOUT

NO SCALE

(2–WAY–CO)



VERTICAL CLEANOUT CONNECTION

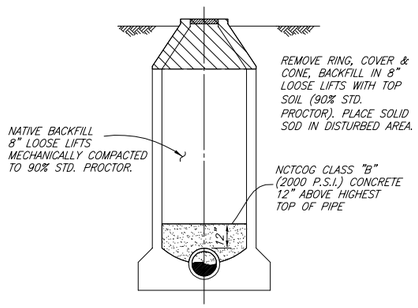
(CONNECTION, WYE, CONCRETE, BENDS, CASTING, ETC. ALL SUBSIDIARY TO CLEANOUT)

(VERT–CO)

CITY OF CELINA, TEXAS

SANITARY SEWER SYSTEM

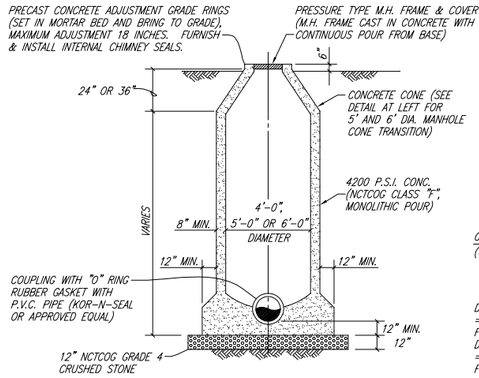
STANDARD DETAILS – CS7



MANHOLE ABANDONMENT

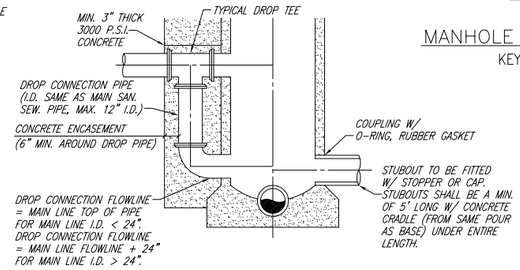
OUTSIDE PAVEMENT AREA

(MHABAN)



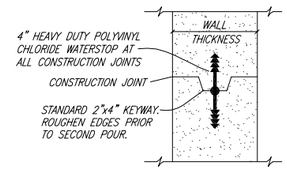
STANDARD MANHOLE ELEVATION

4', 5' & 6' DIAMETER MANHOLES



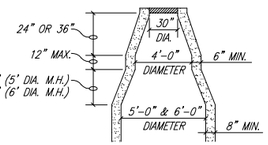
DROP MANHOLE ELEVATION

4', 5' & 6' DIAMETER MANHOLES



MANHOLE CONSTRUCTION JOINT

KEYWAY WITH WATERSTOP

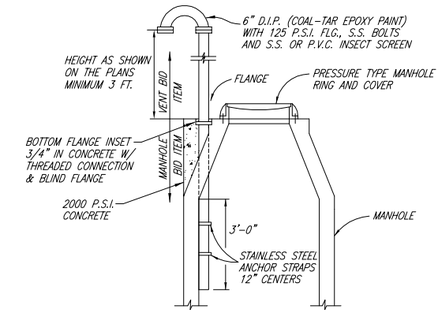


CONE TRANSITION

5' & 6' DIAMETER MANHOLES ONLY

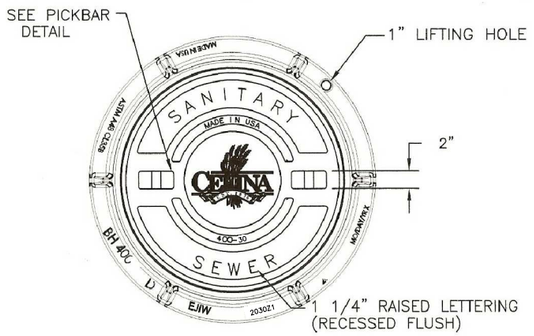
SANITARY SEWER MANHOLE (CAST IN PLACE)

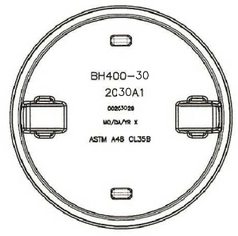
NO SCALE



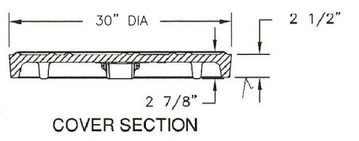
CONE TOP MANHOLE VENT

NO SCALE

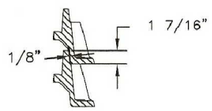




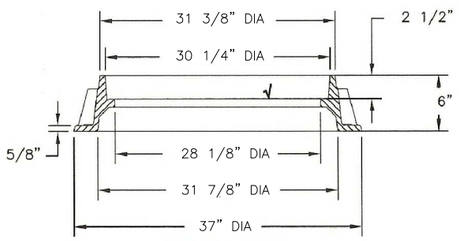
BOTTOM VIEW OF COVER



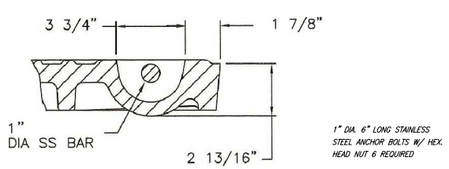
COVER SECTION



STACK DETAIL



RING SECTION

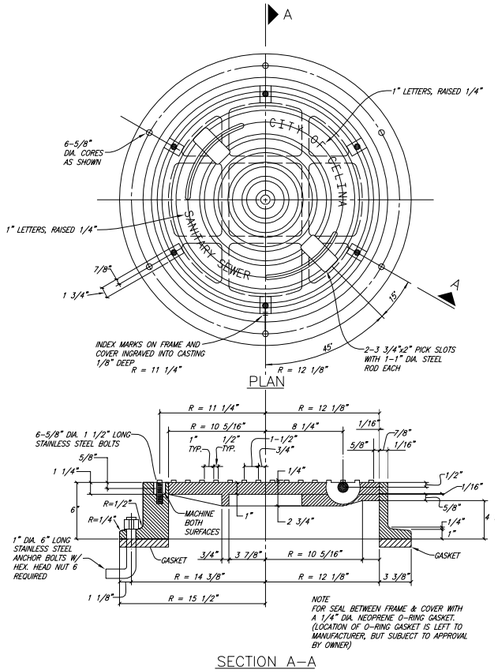


PICKBAR DETAIL

1" DIA. 6" LONG STAINLESS STEEL ANCHOR BOLTS W/ HEX. HEAD NUT 6 REQUIRED

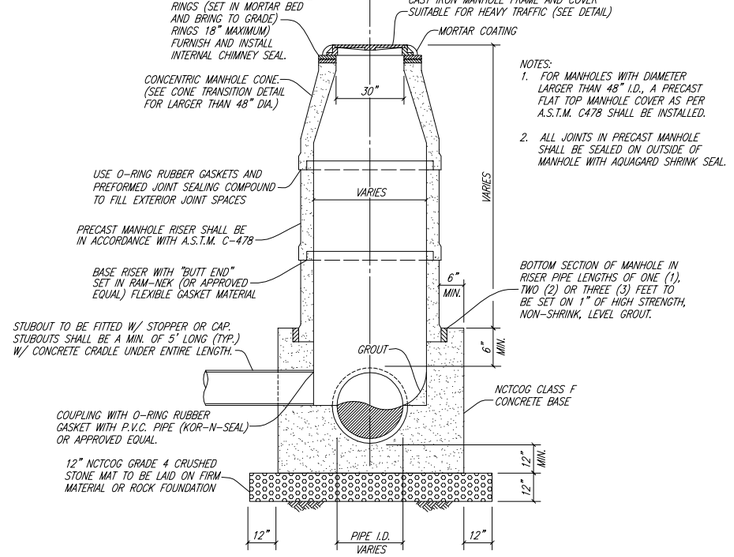
STANDARD MANHOLE COVER AND FRAME

NO SCALE



TYPE "S" MANHOLE FRAME AND COVER

NO SCALE



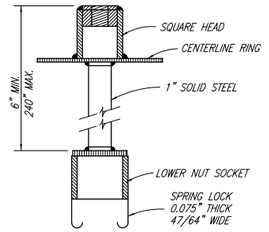
PRECAST CONCRETE MANHOLE

NO SCALE

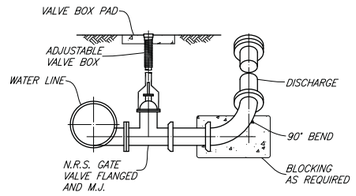
CITY OF CELINA, TEXAS

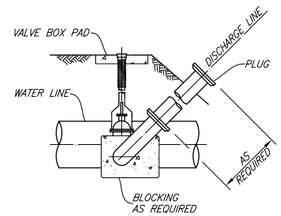
PAVING

STANDARD DETAILS - CS8

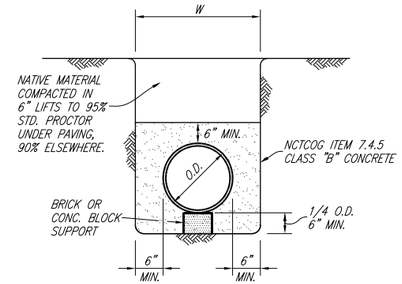


SPRING LOCK VALVE EXTENSION



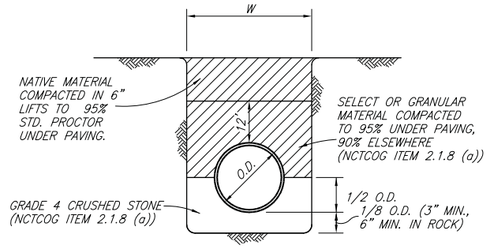


BLOW OFF VALVE



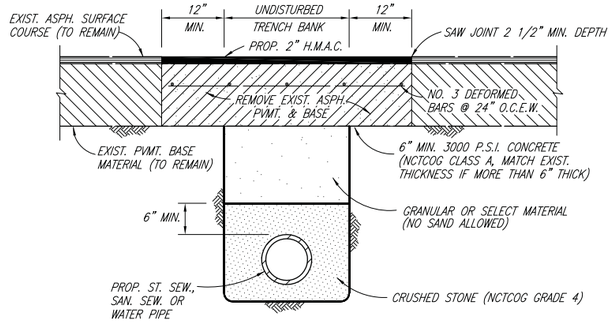
CLASS G EMBEDMENT

CONCRETE ENCASEMENT
NO SCALE



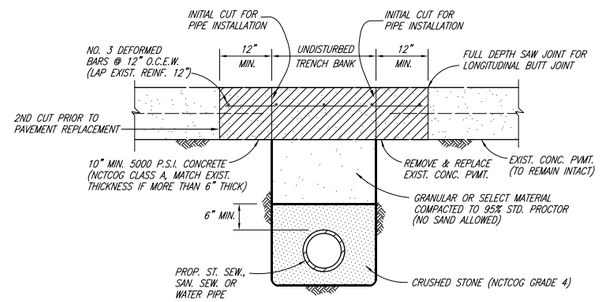
CLASS B+ EMBEDMENT

STD PVC WATER



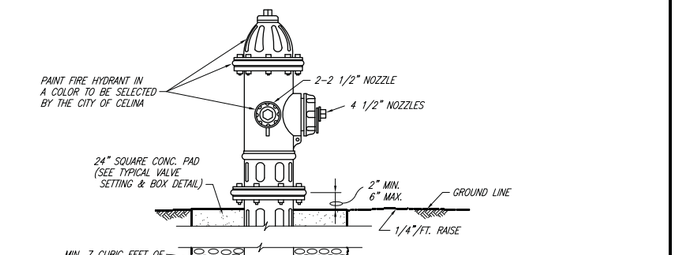
ASPHALT STREET REPAIR

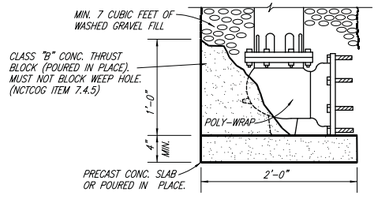
NO SCALE



CONCRETE STREET REPAIR

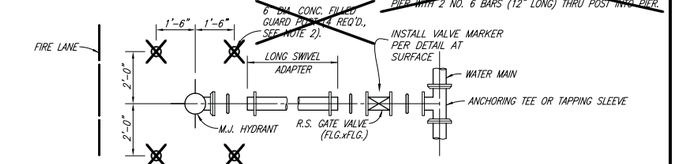
NO SCALE





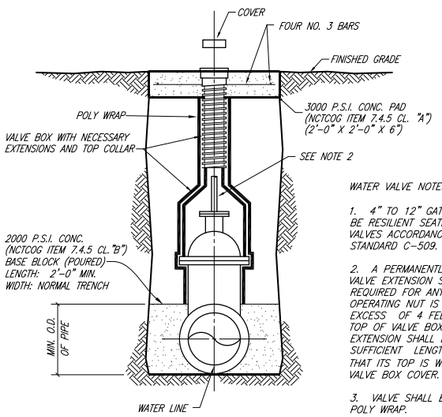
FIRE HYDRANT NOTES:

1. IN GENERAL ALL FIRE HYDRANTS SHALL CONFORM TO AWWA STANDARDS SPECIFICATIONS FOR FIRE HYDRANTS FOR ORDINARY WATER WORKS SERVICE FOR WATER AND SANITARY SEWER IMPROVEMENTS. FIRE HYDRANTS SHALL HAVE A 5-1/4" MINIMUM VALVE OPENING AND WITH A BARREL APPROXIMATELY 7" INSIDE DIAMETER. ALL HYDRANTS SHALL BE EQUIPPED WITH A BREAKAWAY FLANGE. ALL HYDRANTS SHALL BE APPROVED BY THE CITY OF CELINA.
2. GUARD POSTS SHALL BE 6 L.F. OF 6" DIA. HOT DIPPED GALV. STEEL PIPE (3' ABOVE & BELOW GROUND LEVEL). POST SHALL BE ENCASED IN 24" DIA. CONC. PIER TO A DEPTH OF 12" BELOW POST BOTTOM. REINFORCE CONC. PIER WITH 2 NO. 6 BARS (12" LONG) THRU POST AND PIER.



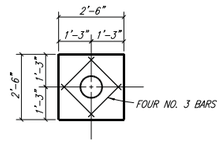
TYPICAL FIRE HYDRANT INSTALLATION

NO SCALE



VALVE SETTING & BOX

NO SCALE

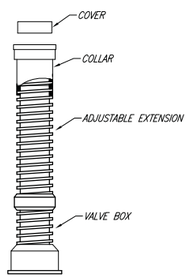


VALVE BOX PAD PLAN

NO SCALE

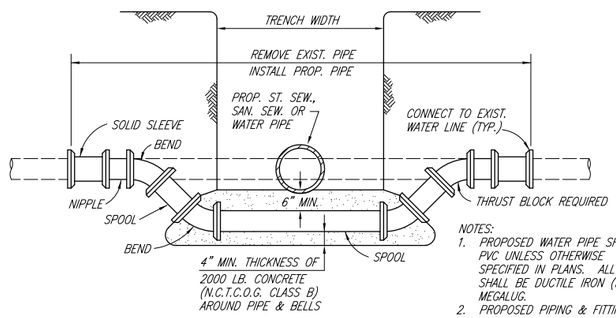
WATER VALVE NOTES:

1. 4" TO 12" GATE VALVE SHALL BE RESILIENT SEATED WEDGE GATE VALVES ACCORDANCE WITH AWWA STANDARD C-509.
2. A PERMANENTLY ATTACHED VALVE EXTENSION STEM SHALL BE REQUIRED FOR ANY VALVE WHOSE OPERATING NUT IS LOCATED IN EXCESS OF 4 FEET BELOW THE TOP OF VALVE BOX. THIS EXTENSION SHALL BE OF SUFFICIENT LENGTH TO INSURE THAT ITS TOP IS WITHIN 4" OF THE VALVE BOX COVER.
3. VALVE SHALL BE WRAPPED IN POLY WRAP.



VALVE BOX WITH EXTENSION

NO SCALE



WATER MAIN LOWERING

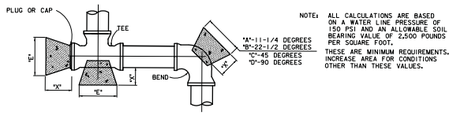
NOTES:

1. PROPOSED WATER PIPE SHALL BE PVC UNLESS OTHERWISE SPECIFIED IN PLANS. ALL FITTINGS SHALL BE DUCTILE IRON (M.J.-P.E.) MEGALUG.
2. PROPOSED PIPING & FITTINGS ARE SYMMETRIC ABOUT CENTER OF PROP. SAN. SEW. OR ST. SEW. PIPE AND SHALL RETAIN TEST PRESSURES.
3. ALL THRUST BLOCKING SHALL BE SUBSIDIARY TO UNIT PRICE.
4. CROSSING OF SANITARY SEWER SHALL BE IN ACCORDANCE WITH T.N.R.C.C. REQUIREMENTS. (CHAPTER 317.13 APPENDIX E)

CITY OF CELINA, TEXAS

WATER DISTRIBUTION SYSTEM

STANDARD DETAILS – CS9



NOTE: ALL CALCULATIONS ARE BASED ON A WATER LINE PRESSURE OF 150 PSI AND AN ALLOWABLE SOIL BEARING VALUE OF 2,500 POUNDS PER SQUARE FOOT.

THESE ARE MINIMUM REQUIREMENTS. INCREASE AREA FOR CONDITIONS OTHER THAN THESE VALUES.

HORIZONTAL BLOCKING TABLE

PIPE SIZE	"X" DIM. IN FT.	11-1/4 DEGREES "A"	MIN. AREA	22-1/2 DEGREES "B"	MIN. AREA	45 DEGREES "C"	MIN. AREA	90 DEGREES "D"	MIN. AREA	TEE & PLUG "E"	MIN. AREA
4"	1.5	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.06	1.00	1.00
6"	1.5	1.00	1.00	1.00	1.00	1.14	1.30	1.55	2.40	1.30	1.70
8"	1.5	1.00	1.00	1.08	1.18	1.52	2.31	2.07	4.27	1.74	3.02
10"	1.5	1.00	1.00	1.35	1.84	1.90	3.61	2.58	6.66	2.17	4.71
12"	1.5	1.00	1.33	1.63	2.65	1.86	5.19	3.10	9.60	2.61	6.79
14"	1.5	1.03	1.81	1.90	3.60	2.66	7.07	3.61	13.06	3.04	9.24
16"	2.0	1.18	2.36	2.17	4.71	3.04	9.23	4.13	17.06	3.47	12.06
18"	2.0	1.33	2.99	2.44	5.96	3.42	11.69	4.65	21.59	3.91	15.27
20"	2.0	1.48	3.70	2.71	7.35	3.80	14.43	5.16	26.66	4.34	18.85
21"	2.0	1.55	4.07	2.85	8.11	3.99	15.91	5.42	29.39	4.56	20.78
24"	2.0	1.77	5.32	3.25	10.59	4.56	20.77	6.20	38.39	5.21	27.14
27"	2.5	1.99	6.73	3.66	13.40	5.13	26.29	6.97	48.58	5.86	34.35
30"	2.5	2.22	8.31	4.07	16.55	5.70	32.46	7.74	59.98	6.51	42.41
33"	2.5	2.44	10.06	4.47	20.02	6.27	39.28	8.52	72.57	7.16	51.31
36"	2.5	2.66	11.97	4.88	23.83	6.84	46.74	9.29	86.37	7.81	61.07
39"	3.0	2.88	14.05	5.29	27.97	7.41	54.86	10.07	101.36	8.47	71.68
42"	3.0	3.10	16.30	5.69	32.43	7.98	63.62	10.85	117.56	9.12	83.13

NOTE: CLASS "B" CONCRETE 2,000 PSI SHALL BE USED FOR ALL BLOCKING UNLESS OTHERWISE NOTED ON STANDARD DETAILS AND / OR PLANS.

THE MINIMUM VERTICAL DIMENSION OF ALL BLOCKING SHALL BE 1.5 TIMES THE PIPE DIAMETER WITH AT LEAST 0.75 TIMES THE PIPE DIAMETER EXTENDING BOTH ABOVE AND BELOW THE PIPE CENTERLINE. THIS DIMENSION DETERMINES THE "A" DIMENSION FOR 11-1/4° BENDS.

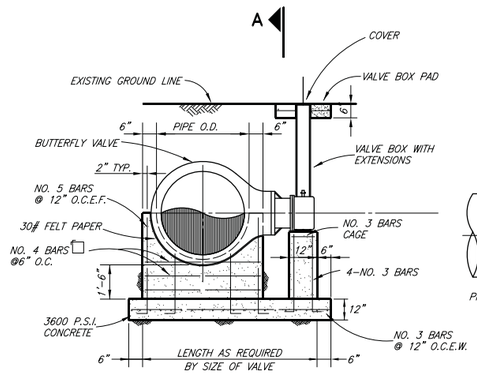
FOR 22-1/2°, 45°, 90°, AND TEES AND PLUGS, THE VERTICAL DIMENSION SHALL BE EQUAL TO THE HORIZONTAL DIMENSION SHOWN TO PRODUCE THE REQUIRED MINIMUM AREA.

ALL MINIMUM AREAS ARE IN SQUARE FEET.

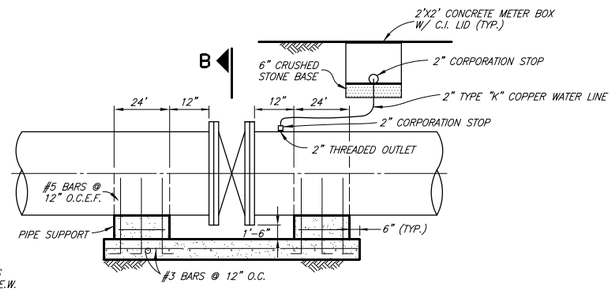
BLOCKING TO BE AGAINST UNDISTURBED TRENCH WALLS AND BOTTOM.

HORIZONTAL THRUST BLOCKING DETAIL

NO SCALE

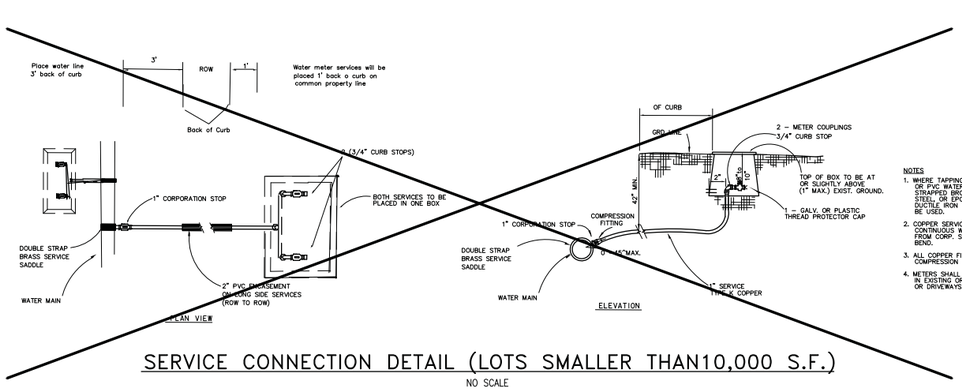


SECTION B–B



SECTION A–A

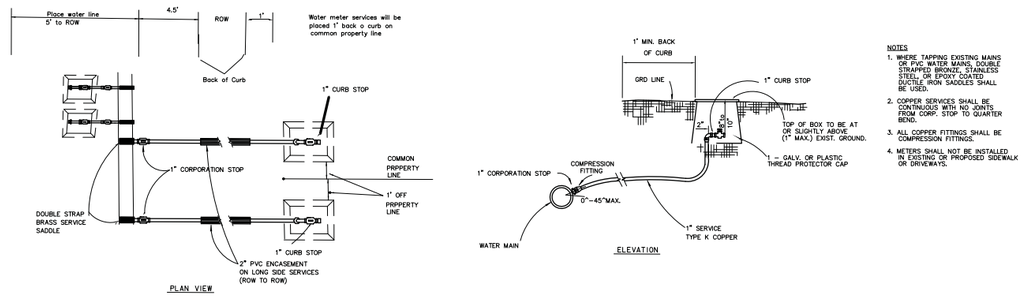
BUTTERFLY VALVE INSTALLATION



NOTES
1. WHERE TAPPING EXISTING MAINS OR PVC WATER MAINS, DOUBLE STRAPPED BRONZE, STAINLESS STEEL, OR EPOXY COATED DUCTILE IRON SADDLES SHALL BE USED.
2. COPPER SERVICES SHALL BE TYPE K CONTINUOUS WITH NO JOINTS FROM CORP. STOP TO QUARTER BEND.
3. ALL COPPER FITTINGS SHALL BE COMPRESSION FITTINGS.
4. METERS SHALL NOT BE INSTALLED IN EXISTING OR PROPOSED SIDEWALK OR DRIVEWAYS.

SERVICE CONNECTION DETAIL (LOTS SMALLER THAN10,000 S.F.)

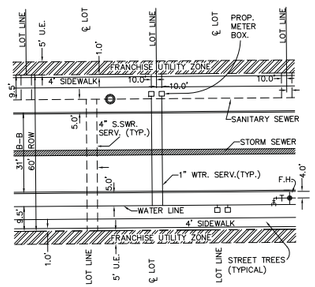
NO SCALE



NOTES
1. WHERE TAPPING EXISTING MAINS OR PVC WATER MAINS, DOUBLE STRAPPED BRONZE, STAINLESS STEEL, OR EPOXY COATED DUCTILE IRON SADDLES SHALL BE USED.
2. COPPER SERVICES SHALL BE CONTINUOUS WITH NO JOINTS FROM CORP. STOP TO QUARTER BEND.
3. ALL COPPER FITTINGS SHALL BE COMPRESSION FITTINGS.
4. METERS SHALL NOT BE INSTALLED IN EXISTING OR PROPOSED SIDEWALK OR DRIVEWAYS.

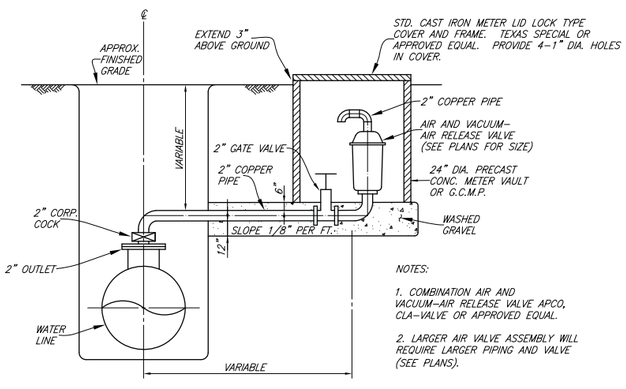
SERVICE CONNECTION DETAIL (LOTS10,000 S.F. OR LARGER)

NO SCALE



UTILITY PLACEMENT DETAIL

NO SCALE



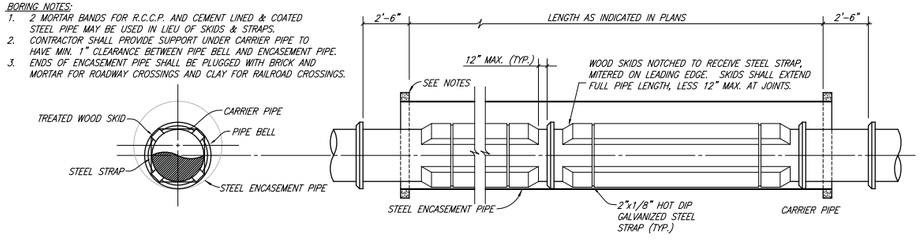
NOTES:

1. COMBINATION AIR AND VACUUM–AIR RELEASE VALVE APCO, CLA–VALVE OR APPROVED EQUAL.
2. LARGER AIR VALVE ASSEMBLY WILL REQUIRE LARGER PIPING AND VALVE (SEE PLANS).

AIR AND VACUUM – AIR RELEASE VALVE INSTALLATION

BORING NOTES:

1. 2 MORTAR BANDS FOR R.C.C.P. AND CEMENT LINED & COATED STEEL PIPE MAY BE USED IN LIEU OF SKIDS & STRAPS.
2. CONTRACTOR SHALL PROVIDE SUPPORT UNDER CARRIER PIPE TO HAVE MIN. 1" CLEARANCE BETWEEN PIPE BELL AND ENCASEMENT PIPE.
3. ENDS OF ENCASEMENT PIPE SHALL BE PLUGGED WITH BRICK AND MORTAR FOR ROADWAY CROSSINGS AND CLAY FOR RAILROAD CROSSINGS.



SECTION

ELEVATION

ENCASED ROAD OR RAILROAD BORE

CITY OF CELINA, TEXAS

WATER DISTRIBUTION SYSTEM

STANDARD DETAILS – CS10