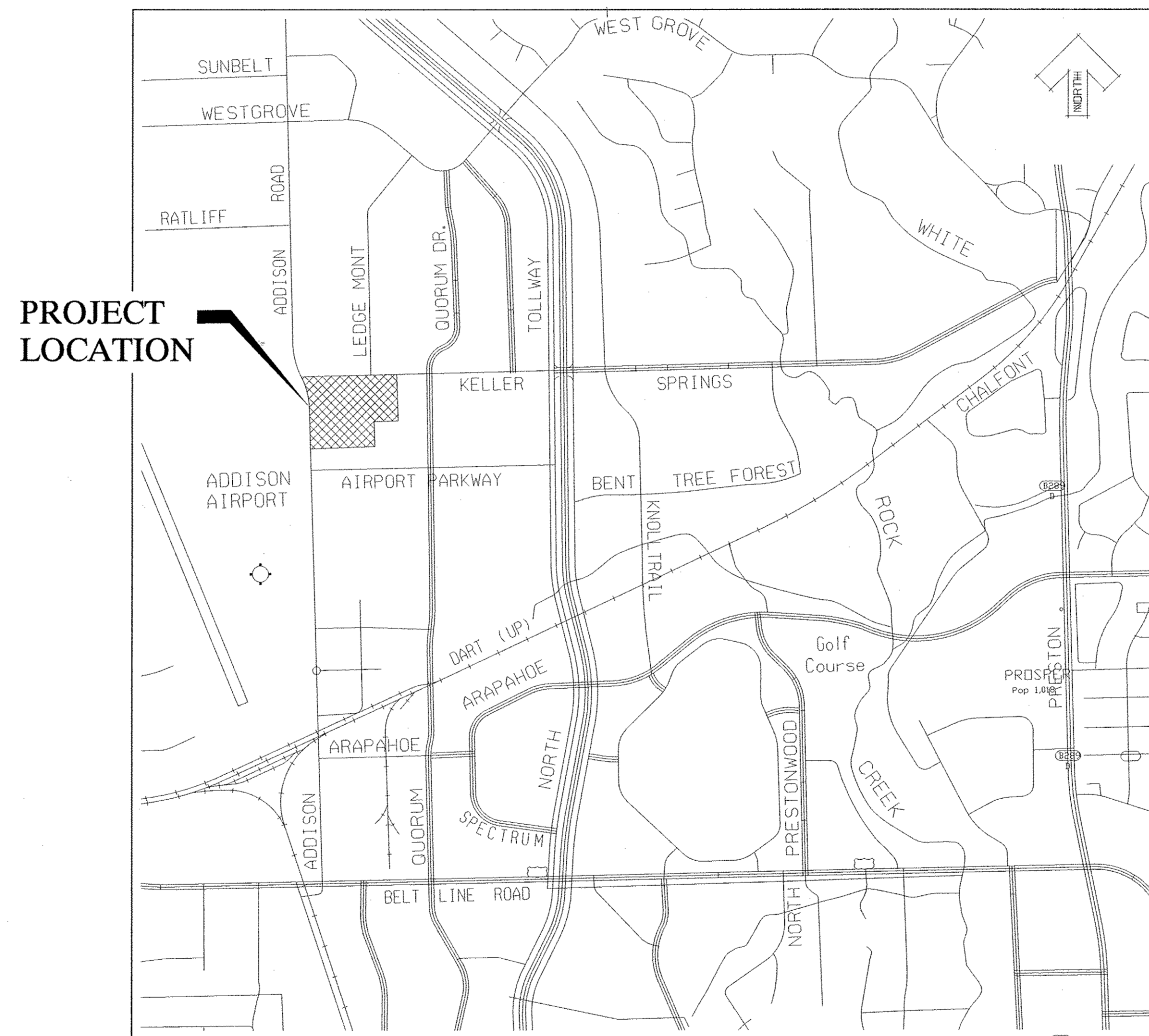


# KELLER SPRINGS LOFTS

## LOFT APARTMENTS IN ADDISON TOWN OF ADDISON, DALLAS COUNTY, TEXAS

### PLANS SUBMITTAL/REVIEW LOG

PERMIT SET - NOT FOR CONSTRUCTION.	08/05/2011
PROJECT COORDINATION SET	08/19/2011
100% COORDINATION SET CITY SUBMITTAL #2	08/26/2011
100% COORDINATION SET CITY SUBMITTAL #3	09/14/2011
ISSUES FOR CONSTRUCTION	10/11/2011



VICINITY MAP  
(NOT TO SCALE)

SHEET LIST	
SHEET NUMBER	SHEET TITLE
C1	COVER SHEET
	FINAL PLAT
C2	GENERAL NOTES
C2a	TOWN OF ADDISON WATER AND WASTEWATER REQUIREMENTS
C2b	TOWN OF ADDISON WATER AND WASTEWATER REQUIREMENTS
C3	DIMENSION CONTROL PLAN
C4	GRADING PLAN
C4a	PAVING PLAN
C5	DRAINAGE AREA MAP
C6	DETENTION POND CALCULATIONS
C7	DRAINAGE CALCULATIONS
C8	STORM SEWER PLAN
C8a	TREE DRAIN PLAN
C9	STORM SEWER PROFILES
C10	WATER & WASTEWATER PLAN - PROFILE
C10a	ELECTRICAL SITE PLAN
C11-11a	POLLUTION CONTROL PLAN
C12-12b	PAVING DETAILS
C13-C14	STORM WATER DETAILS
C15-C20	JUNCTION STRUCTURE DETAILS
C21-C22a	WATER DETAILS
C23	WASTEWATER DETAILS
C24	UTILITY DETAILS

PREPARED FOR:

**Embrey Partners, Ltd.**

1020 NE Loop 410, Ste 700  
San Antonio, Texas 78209

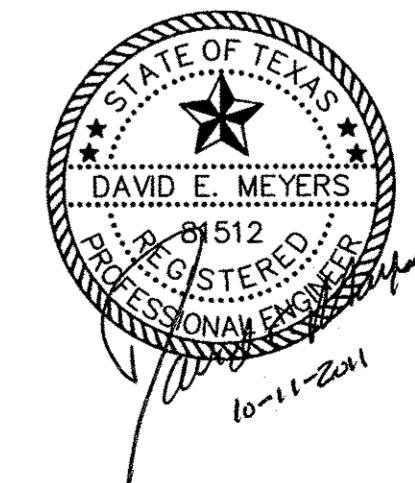
PREPARED BY:



**Kimley-Horn  
and Associates, Inc.**

12700 Park Central Drive, Suite 1800, Dallas, TX 75251-1516 972-770-1300  
Firm Registration No. F-928

**OCTOBER 11, 2011**  
**PW# 2006-001**



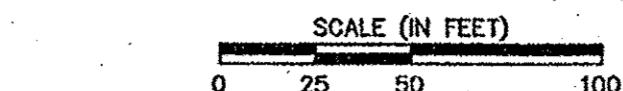
"Record Drawings"  
These drawings have been revised to show those changes during the construction process reported by the contractor to Kimley-Horn and Associates, Inc. and considered to be significant. These drawings are not guaranteed to be "As-Built", but are based on the information made available.  
DATE: 9-10-2011 BY: David E. Meyers

LOT 1  
GATEWAY CENTER  
VOLUME 79174, PAGE 351  
D.R.D.C.T.

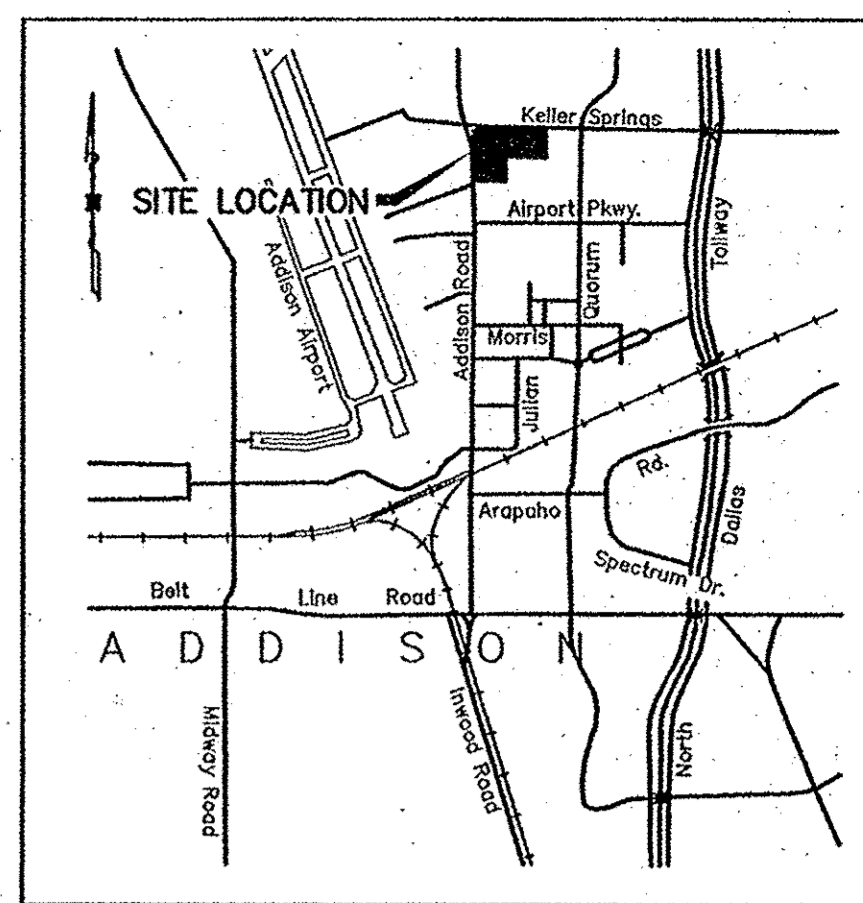
LOT 2  
GATEWAY CENTER  
VOLUME 79174, PAGE 351  
D.R.D.C.T.

DAC GROUP  
VOLUME 79051, PAGE 2524  
D.R.D.C.T.

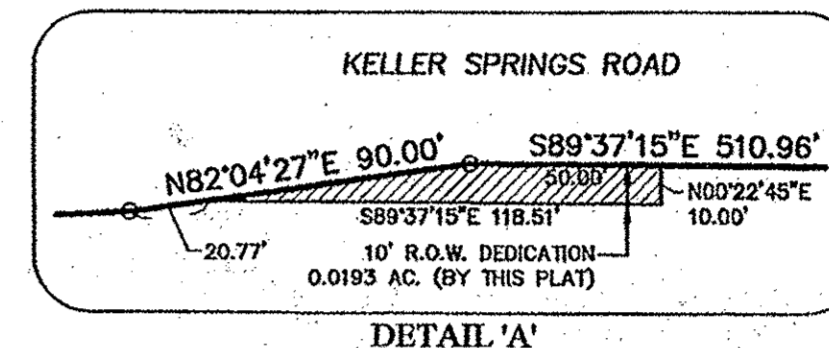
### KELLER SPRINGS ROAD (VARIABLE WIDTH R.O.W.)



BASIS OF BEARINGS / DIRECTIONAL CONTROL:  
THE FINAL PLAT OF ADDISON ROAD-KELLER SPRINGS ROAD  
ADDISON, AS RECORDED IN VOLUME 2004075, PAGE 00174,  
DEED RECORDS OF DALLAS COUNTY, TEXAS.



LOCATION MAP  
NTS



CURVE	DELTA	RADIUS	LENGTH	CB	CHORD
C-1	86°38'51"	25.00'	37.81'	N46°40'34"E	34.31'
C-2	82°12'15"	49.00'	70.30'	N44°27'17"E	64.43'
C-3	90°00'00"	25.00'	39.27'	N45°22'45"W	35.36'
C-4	90°00'00"	49.00'	76.97'	S45°22'45"W	69.30'
C-5	82°12'15"	25.00'	35.87'	S44°27'10"W	32.87'
C-6	86°38'51"	49.00'	74.10'	N46°40'34"E	67.24'
C-7	90°00'00"	44.00'	69.12'	S49°00'00"W	62.23'
C-8	89°58'48"	20.00'	31.41'	N45°00'36"E	28.28'
C-9	90°00'00"	25.00'	39.27'	S45°00'00"W	35.36'
C-10	90°00'00"	20.00'	31.42'	N45°00'00"E	28.28'
C-11	90°00'00"	20.00'	31.42'	S45°00'00"E	28.28'

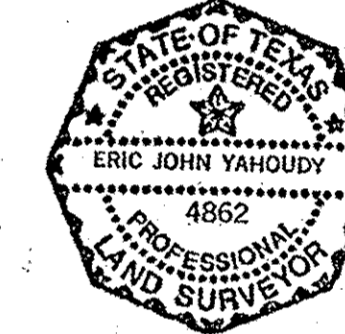
LEGEND:  
IRF IRON ROD FOUND  
IRS 3/8" IRON ROD SET WITH  
"HUITT-ZOLLARS" YELLOW  
PLASTIC CAP  
(CM) CONTROL MONUMENT

#### SURVEYOR'S CERTIFICATE

I, ERIC J. YAHOUDY, a Registered Professional Land Surveyor in the State of Texas, do hereby certify that I have prepared this plat from an actual on the ground survey of the land, and the monuments shown hereon were found and/or placed under my personal supervision in accordance with the planning rules and regulations of the City Planning Commission of the Town of Addison.

For Huitt-Zollars, Inc.

*Eric J. Yahoudy* 1/10/2008  
ERIC J. YAHOUDY  
Registered Professional Land Surveyor  
Texas Registration No. 4862



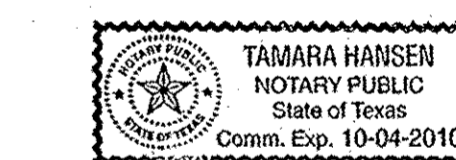
STATE OF TEXAS :  
COUNTY OF DALLAS :

BEFORE me, the undersigned authority, a Notary Public in and for the State of Texas on this day personally appeared, Eric J. Yahoudy, 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 purposes and consideration therein expressed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE this 10th day of January, 2008.

*Tamara Hansen*  
NOTARY PUBLIC IN AND FOR STATE OF TEXAS

My commission expires: 10-04-2010

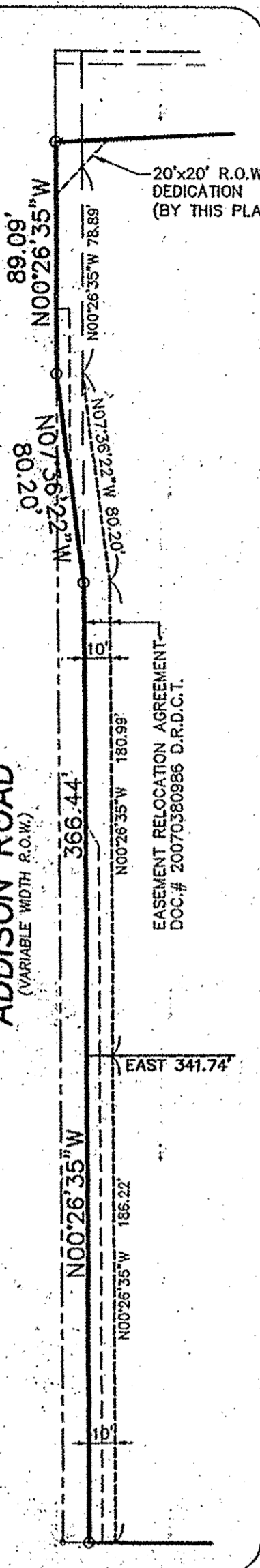


#### CERTIFICATE OF APPROVAL

APPROVED THIS 10th day of July, 2008, by the City Council of Addison, Texas.

*John F. Warren*  
Mayor  
*Mani Giff*  
City Secretary

THE PURPOSE OF THIS RE-PLAT IS TO CHANGE LOTS, ABANDON EXISTING PLATTED EASEMENTS AND TO ADD A FIRE LANE, ACCESS, DRAINAGE AND UTILITY EASEMENT.



DETAIL 'C'  
(NOT TO SCALE)

LINE	LENGTH	BEARING
L1	15.86'	NORTH
L2	24.67'	EAST
L3	15.86'	SOUTH
L4	15.36'	NORTH
L5	36.64'	EAST
L6	15.36'	SOUTH
L7	16.20'	WEST
L8	15.00'	NORTH

LINE	LENGTH	BEARING
L9	19.75'	EAST
L10	9.87'	WEST
L11	10.00'	NORTH
L12	18.87'	EAST
L13	4.44'	NORTH
L14	20.00'	EAST
L15	4.57'	SOUTH
L16	5.00'	N89°37'15"W

LINE	LENGTH	BEARING
L17	10.00'	N00°22'45"E
L18	5.00'	S89°37'15"E
L19	5.00'	N13°45'23"W
L20	9.98'	S76°14'37"W
L21	5.00'	S13°45'23"E
L22	16.89'	N43°22'34"E
L23	11.97'	N43°22'34"E
L24	93.52'	N08°33'32"W

LINE	LENGTH	BEARING
L25	30.00'	WEST
L26	10.00'	NORTH
L27	30.00'	EAST
L28	5.00'	S31°47'57"W
L29	9.90'	N58°12'03"W
L30	5.00'	N31°47'57"E
L31	5.00'	N26°30'53"W
L32	9.98'	N63°29'07"E
L33	5.00'	S26°30'53"E

THENCE In an easterly direction, along the north line of said Lot 1 and 2, and the south right-of-way line of Keller Springs Road the following:

North 87 degrees 11 minutes 44 seconds East, a distance of 180.00 feet to a 5/8 inch iron rod found with BDD cap for a corner;

North 82 degrees 04 minutes 27 seconds East, a distance of 90.00 feet to a 5/8 inch iron rod found with BDD cap for corner;

South 89 degrees 37 minutes 15 seconds East, passing at a distance of 265.96 feet, the common north corner of said Lots 1 and 2, and continuing for a total distance of 510.96 feet to an x set in concrete for the northeast corner of said Lot 1, said point being on the west line of Lot 1, Block A, Parkway Business Center I, an addition to the Town of Addison, Texas, as recorded in Volume 81237, Page 1939, (D.R.D.C.T.);

THENCE South 00 degrees 22 minutes 45 seconds West, departing the south right-of-way line of Keller Springs Road and along the east line of said Addison Road-Keller Springs Road Addition, and the west line of said Parkway Business Center I, a distance of 311.90 feet to a 1/2 inch iron rod found with plastic cap stamped "Weir & Associates" for the southeast corner of Lot 1 of said Addison Road-Keller Springs Road Addition, said point also being the northeast corner of Lot 1, Federal Express Addition, an addition to the Town of Addison, Texas, as recorded in Volume 94226, Page 3552, (D.R.D.C.T.);

THENCE North 89 degrees 37 minutes 15 seconds West, departing the west line of said Parkway Business Center I and along the south line of said Addison Road-Keller Springs Road Addition, and north line of said Federal Express Addition a distance of 423.00 feet to a 5/8 inch iron rod set with yellow plastic cap stamped "Huit-Zollars" for a corner, said point also being the northwest corner of said Federal Express Addition;

THENCE South 00 degrees 22 minutes 45 seconds West, along the west line of said Federal Express Addition, and the east line of Addison Road-Keller Springs Addition, a distance of 246.00 feet to a 1/2 inch iron rod found with plastic cap stamped "Huit-Zollars" for the most southerly southeast corner of Lot 2 of said Addison Road-Keller Springs Road Addition, said point also being the northeast corner of Lot 1, Block A, of said State Farm Service Center Addition;

THENCE North 89 degrees 37 minutes 15 seconds West, along the north line of said State Farm Service Center Addition, and the south line of said Addison Road-Keller Springs Road Addition a distance of 339.06 feet to POINT OF BEGINNING and containing 7.370 acres of land, more or less.

#### OWNER'S CERTIFICATE

Being a tract of land situated in the G.W. FISHER SURVEY, Abstract No. 482, Town of Addison, Dallas County, Texas and being all of Lots 1 and 2, Block A, Addison Road-Keller Springs Addition, an addition to the Town of Addison, Texas, as recorded in Volume 2004075, Page 174, and being all of two tracts of land as described in Instrument to Woodmont TCI Group VIII, L.P., a Texas limited partnership as recorded under Instrument No. 200600384839 and 20070046965, all of the Dead Records of Dallas County Texas (D.R.D.C.T.) and being more particularly described as follows;

BEGINNING at a 5/8 inch iron rod set with yellow plastic cap stamped "Huit-Zollars" at the southwest corner of said Lot 2, Block A, the same being on the east right-of-way line of Addison Road (as established by said plat recorded in Volume 2004075, Page 174) said corner being on the north line of Lot 1, Block A, State Farm Service Center Addition, an addition to the City of Addison, Texas, according to the Plat recorded in Volume 97077, Page 3143, of the Deed Records of Dallas County, Texas (D.R.D.C.T.);

THENCE In a northerly direction, along the west line of said Lot 2 and the east right-of-way line of Addison Road the following:

North 00 degrees 26 minutes 35 seconds West, a distance of 366.44 feet to a 5/8 inch iron rod found with BDD cap for a corner;

North 07 degrees 36 minutes 22 seconds West, a distance of 80.20 feet to a 5/8 inch iron rod found with BDD cap for corner;

North 00 degrees 26 minutes 35 seconds West, a distance of 89.09 feet to a 5/8 inch iron rod set with yellow plastic cap stamped "Huit-Zollars" for the northwest corner of said Lot 2 and the intersection of the east right-of-way line of said Addison Road with the south right-of-way line of Keller Springs Road (a variable width right-of-way as established by said plat recorded in Volume 2004075, Page 174);

#### NOW, THEREFORE, KNOW ALL MEN BY THESE PRESENTS:

That Woodmont TCI Group VIII, L.P. does hereby adopt this plat designating the herein above property as Keller Springs Lofts Addition, an addition to the Town of Addison, Texas, and subject to the conditions, restrictions and reservations stated hereinafter, owner dedicates to the public use forever the streets and alleys shown thereon.

The easements shown on this plat are hereby reserved for the purposes as indicated, including, but not limited to, the installation and maintenance of water, sanitary sewer, drainage, electric, telephone, gas and cable television. Owner shall have the right to use these easements, provided, however, that it does not unreasonably interfere or impede with the provision of the services to others. Said utility easements are hereby being reserved by mutual use and accommodation of all public utilities using or desiring to use the same. An express easement of ingress and egress is hereby expressly granted on, over and across all such easements for the benefit of the provider of services for which easements are granted.

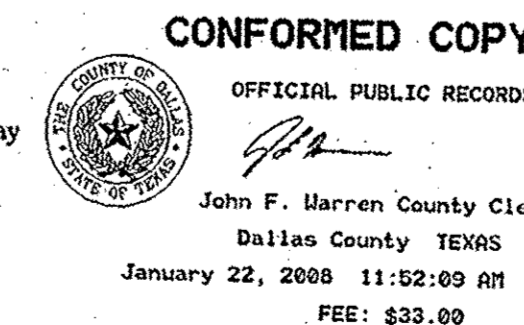
Any drainage and floodway easement shown hereon is hereby dedicated to the public's use forever, but including the following covenants with regards to maintenance responsibilities. The existing channels or creeks traversing the drainage and floodway easement will remain as an open channel, unless required to be enclosed by ordinance, at all times and shall be maintained by the individual owners of the lot or lots that are traversed by or adjacent to the drainage and floodway easement. The town will not be responsible for the maintenance and operation of said creek or creeks or for any damage or injury of private property or person that results from the flow of water along said creek, or for the control of erosion. No obstruction to the natural flow of water runoff shall be permitted by construction of any type of building, fence or any other structure within the drainage and floodway easement. Provided, however, it is understood that in the event it becomes necessary for the town to channelize or consider erecting any type of drainage structure in order to improve the storm drainage, then in such event, the town shall have the right, but not the obligation, to enter upon the drainage and floodway easement at any point, or points, with all rights of ingress and egress to investigate, survey, erect, construct or maintain any drainage facility deemed necessary by the town for maintenance or efficiency of its respective system or service.

Water main and sanitary sewer easements shall also include additional area of working space for construction and maintenance of the systems. Additional easement area is also conveyed for installation and maintenance of manholes, cleanouts, fire hydrants, water service and sewer services from the main to curb or pavement line, and the descriptions of such additional easements herein granted shall be determined by their locations as installed.

This plat is approved subject to all platting ordinances, rules, regulations and resolutions of the Town of Addison, Texas.

WOODMONT TCI GROUP VIII, L.P., a Texas limited partnership.

BY: *Samir Khatib*  
TITLE: SO VP  
WITNESS MY HAND at Jam in Dallas, Texas this 14th day of January, 2008.



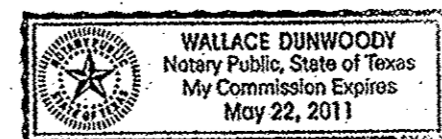
STATE OF TEXAS :  
COUNTY OF DALLAS :

BEFORE me, the undersigned authority, a Notary Public in and for State of Texas on this day personally appeared, Jim Duffy, 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 purposes and consideration therein expressed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE this 14th day of January, 2008.

*Wallace Dunwoody*  
NOTARY PUBLIC IN AND FOR STATE OF TEXAS

My commission expires: May 22, 2011



### FINAL PLAT KELLER SPRINGS LOFTS ADDITION LOT 1 & LOT 2, BLOCK A

BEING A RE-PLAT OF LOTS 1 & 2, BLOCK A  
ADDISON ROAD - KELLER SPRINGS ADDITION  
TOWN OF ADDISON, DALLAS COUNTY, TEXAS  
7.370 ACRES SITUATED IN THE  
G.W. FISHER SURVEY, ABSTRACT No. 482.

JANUARY 2008

PREPARED FOR

WOODMONT TCI GROUP VIII, L.P.  
1800 VALLEY VIEW LANE, SUITE 300 - DALLAS, TEXAS 75231  
PHONE (469) 522-4371

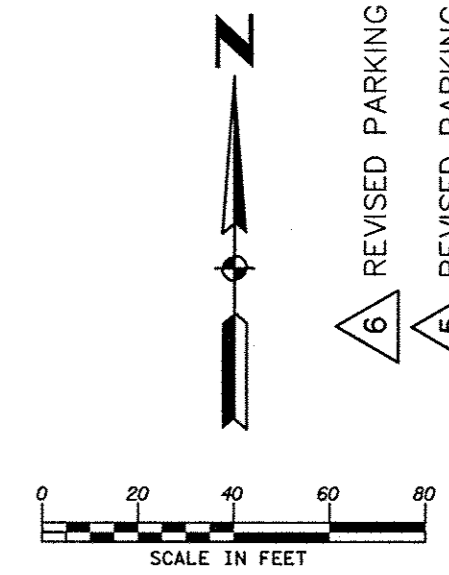
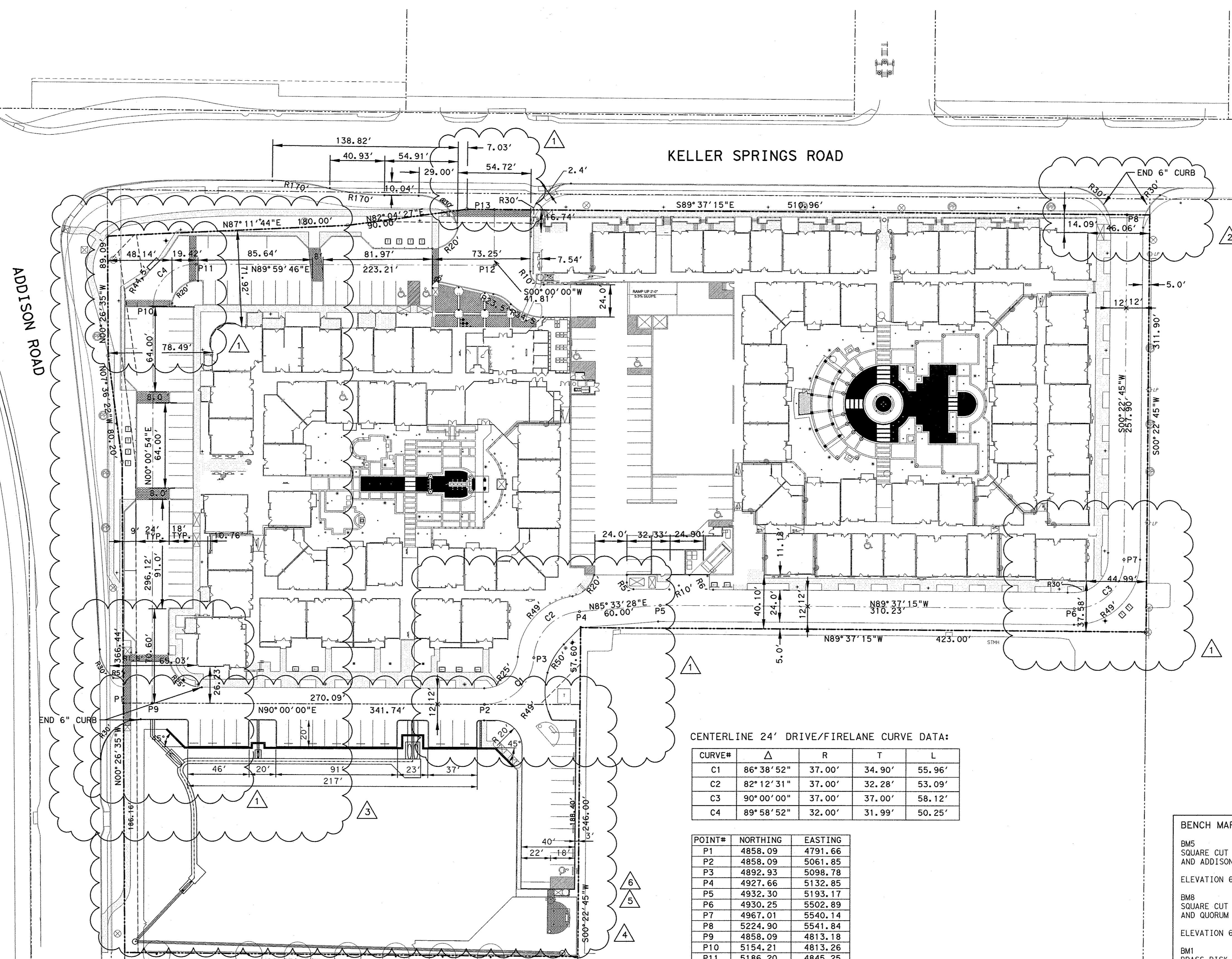
PREPARED BY

HUITT-ZOLLARS  
Huitt-Zollars, Inc.  
3131 McKinney Avenue, Suite 600  
Dallas, Texas 75204-2489  
Phone (214) 671-3311 Fax (214) 871-0757









KELLER SPRINGS ROAD

ADDISON ROAD

CENTERLINE 24' DRIVE/FIRELANE CURVE DATA:

CURVE#	Δ	R	T	L
C1	86° 38' 52"	37.00'	34.90'	55.96'
C2	82° 12' 31"	37.00'	32.28'	53.09'
C3	90° 00' 00"	37.00'	37.00'	58.12'
C4	89° 58' 52"	32.00'	31.99'	50.25'

POINT#	NORTHING	EASTING
P1	4858.09	4791.66
P2	4858.09	5061.85
P3	4892.93	5098.78
P4	4927.66	5132.85
P5	4932.30	5193.17
P6	4930.25	5502.89
P7	4967.01	5540.14
P8	5224.90	5541.84
P9	4858.09	4813.18
P10	5154.21	4813.26
P11	5186.20	4845.25
P12	5186.22	5068.46
P13	5228.03	5068.46

**BENCH MARKS:**

BMS  
 SQUARE CUT ON INLET, SOUTHWEST CORNER OF RATLIFF LANE AND ADDISON ROAD.  
 ELEVATION 637.20

BMB  
 SQUARE CUT ON INLET, SOUTHWEST CORNER OF AIRPORT PKWY. AND QUORUM DRIVE.  
 ELEVATION 631.15

BM1  
 BRASS DISK FOUND AT NORTHWEST CORNER OF INLET, SOUTHWEST CORNER OF KELLER SPRINGS AND ADDISON ROAD.  
 ELEVATION 638.91

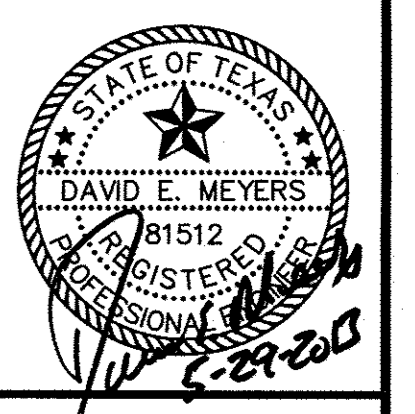
**NOTES:**

1. THIS PLAN IS FOR SITE PAVING CONTROL ONLY. CONTRACTOR SHALL COORDINATE WITH THE OWNER, ENGINEER, ARCHITECT AND SURVEYOR PRIOR TO STAKING BUILDING CORNERS OTHERWISE.
2. ALL DIMENSIONS ARE FROM BACK OF CURB UNLESS NOTED OTHERWISE.
3. ALL PARKING RADII DIMENSIONS TO BE 2' MINIMUM UNLESS OTHERWISE NOTED.

5/29/13  
 4/18/13

REVISOR  
 6 REVISOR PARKING  
 5 REVISOR PARKING

No.	Revision	Date
1	REVISED FIRE LANE FOR WB-50	9/14/11
2	REVISED DRIVEWAY	10/27/11
3	REVISED PARKING	2/6/12
4	ADDED PARKING	2/28/13

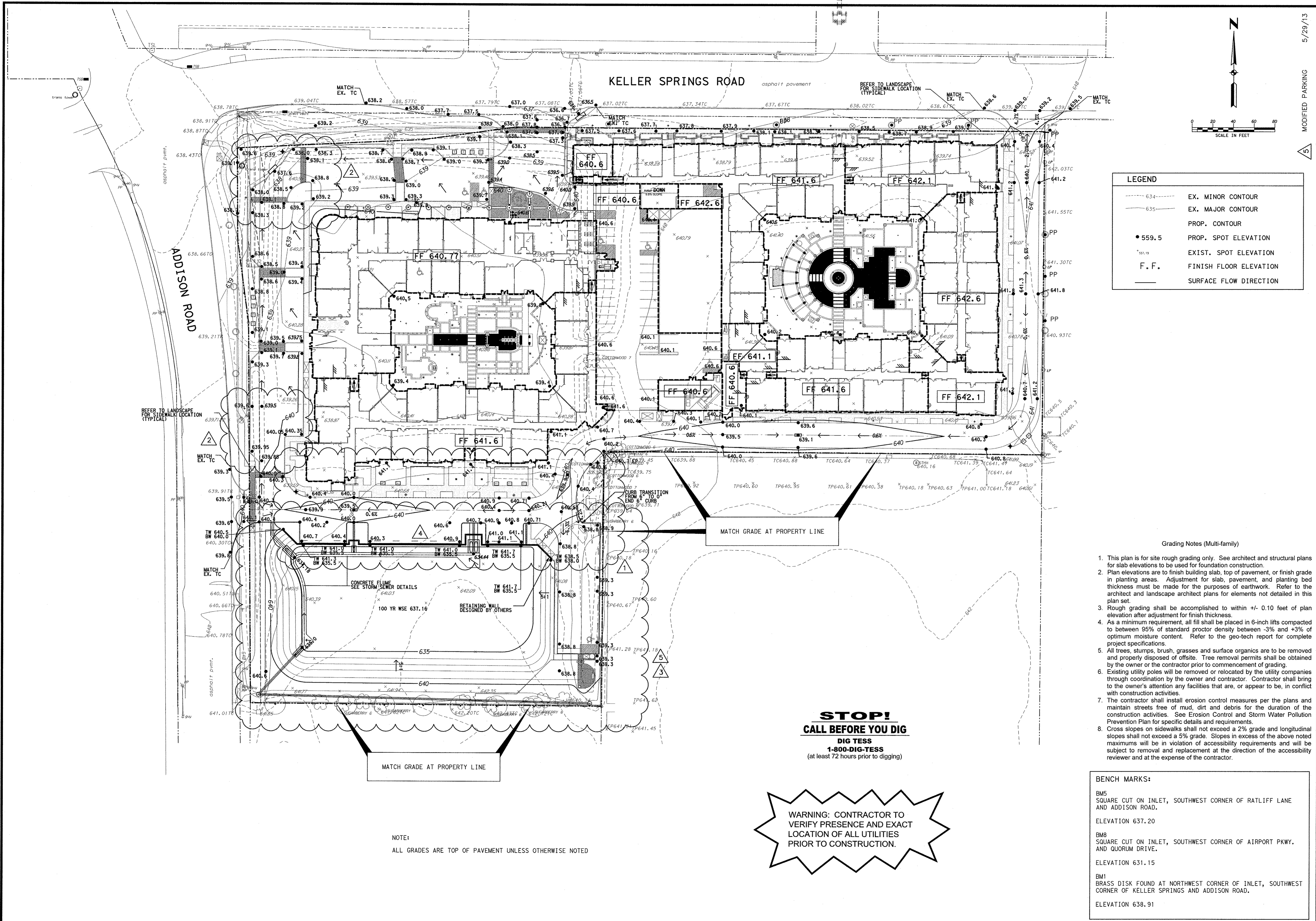


**Keller Springs Lofts**  
 Loft Apartments in Addison  
 Town of Addison, Texas

**DIMENSION CONTROL PLAN**

DATE: FEBRUARY 28, 2013  
 DESIGN: KHA  
 DRAWN: KHA  
 CHECKED: KHA  
 KHA NO.: 064362003  
 CITY NO.:

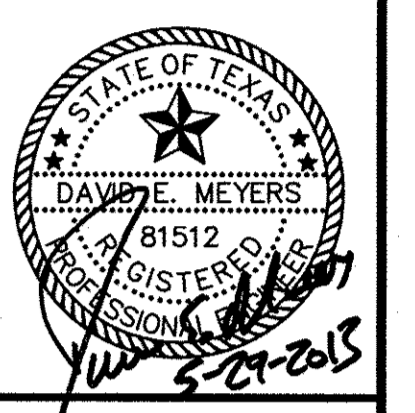
SHEET  
**C3**



5/29/13  
MODIFIED PARKING  
5

Kimley-Horn and Associates, Inc.  
2700 Ross Avenue, Suite 800  
Dallas, TX 75201-8888 972-770-8000  
Fax: 972-770-8000

No.	Revision	Date
1	REVISED FIRE LANE GRADES	11/17/11
2	REVISED PARKING GRADING	2/6/12
3	ADDED PARKING	2/28/13
4	ADDED PARKING	4/18/13



**Keller Springs Lofts**  
Loft Apartments in Addison  
Town of Addison, Texas

**GRADING PLAN**

**LEGEND**

--- 634 ---	EX. MINOR CONTOUR
--- 635 ---	EX. MAJOR CONTOUR
---	PROP. CONTOUR
• 559.5	PROP. SPOT ELEVATION
* 559.19	EXIST. SPOT ELEVATION
F.F.	FINISH FLOOR ELEVATION
---	SURFACE FLOW DIRECTION

- Grading Notes (Multi-family)**
- This plan is for site rough grading only. See architect and structural plans for slab elevations to be used for foundation construction.
  - Plan elevations are to finish building slab, top of pavement, or finish grade in planting areas. Adjustment for slab, pavement, and planting bed thickness must be made for the purposes of earthwork. Refer to the architect and landscape architect plans for elements not detailed in this plan set.
  - Rough grading shall be accomplished to within +/- 0.10 feet of plan elevation after adjustment for finish thickness.
  - As a minimum requirement, all fill shall be placed in 6-inch lifts compacted to between 95% of standard proctor density between -3% and +3% of optimum moisture content. Refer to the geo-tech report for complete project specifications.
  - All trees, stumps, brush, grasses and surface organics are to be removed and properly disposed of offsite. Tree removal permits shall be obtained by the owner or the contractor prior to commencement of grading.
  - Existing utility poles will be removed or relocated by the utility companies through coordination by the owner and contractor. Contractor shall bring to the owner's attention any facilities that are, or appear to be, in conflict with construction activities.
  - The contractor shall install erosion control measures per the plans and maintain streets free of mud, dirt and debris for the duration of the construction activities. See Erosion Control and Storm Water Pollution Prevention Plan for specific details and requirements.
  - Cross slopes on sidewalks shall not exceed a 2% grade and longitudinal slopes shall not exceed a 5% grade. Slopes in excess of the above noted maximums will be in violation of accessibility requirements and will be subject to removal and replacement at the direction of the accessibility reviewer and at the expense of the contractor.

**BENCH MARKS:**

BMS	SQUARE CUT ON INLET, SOUTHWEST CORNER OF RATLIFF LANE AND ADDISON ROAD.	ELEVATION 637.20
BMS	SQUARE CUT ON INLET, SOUTHWEST CORNER OF AIRPORT PKWY. AND QUORUM DRIVE.	ELEVATION 631.15
BM1	BRASS DISK FOUND AT NORTHWEST CORNER OF INLET, SOUTHWEST CORNER OF KELLER SPRINGS AND ADDISON ROAD.	ELEVATION 638.91

**STOP!**  
**CALL BEFORE YOU DIG**  
DIG TESS  
1-800-DIG-TESS  
(at least 72 hours prior to digging)

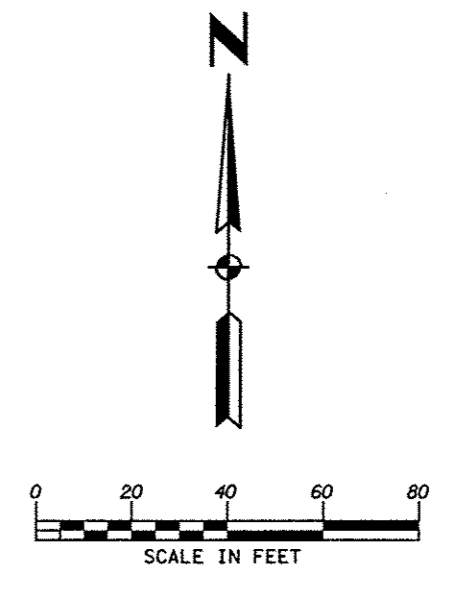
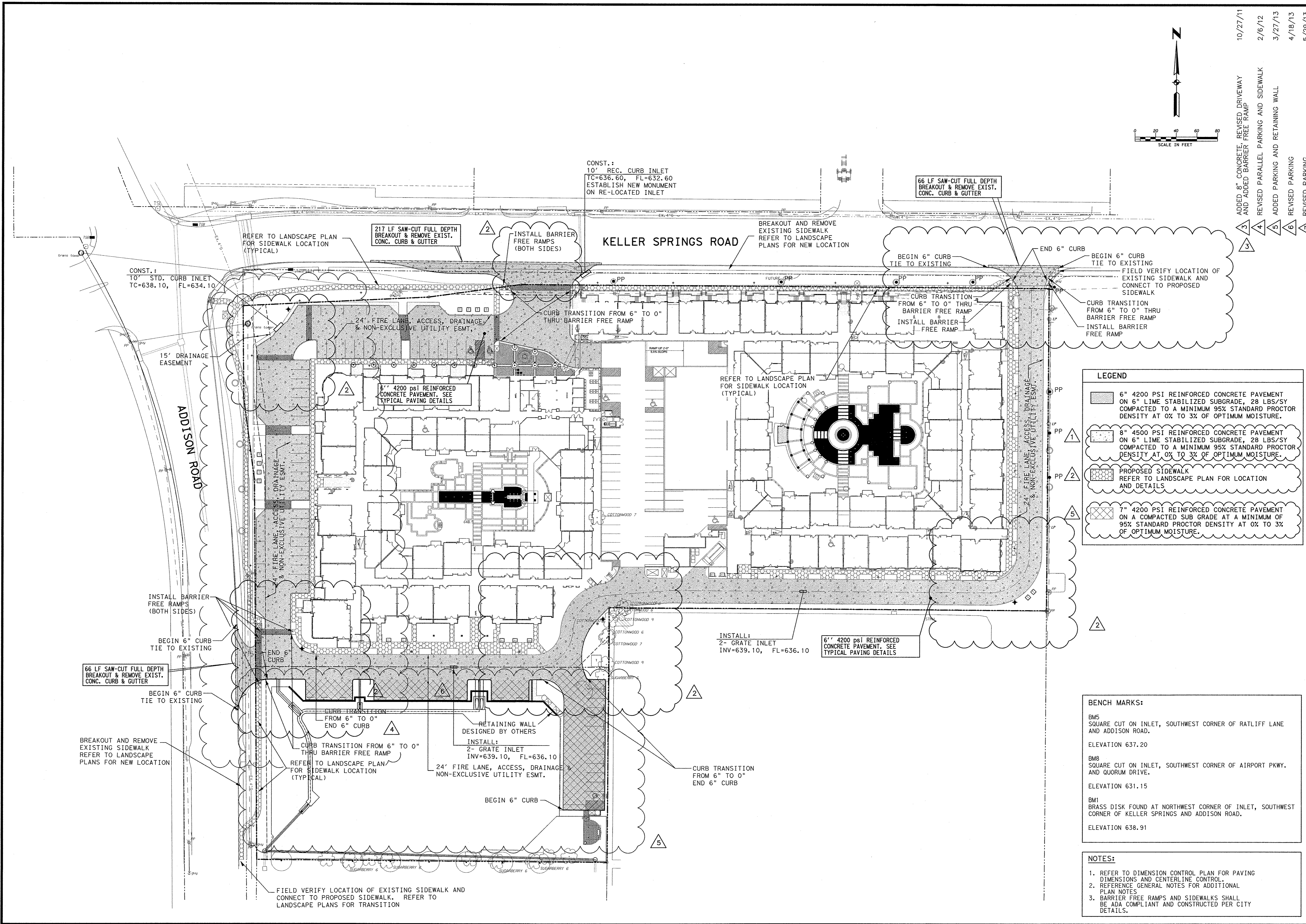
**WARNING: CONTRACTOR TO VERIFY PRESENCE AND EXACT LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.**

NOTE:  
ALL GRADES ARE TOP OF PAVEMENT UNLESS OTHERWISE NOTED

DATE: FEBRUARY 28, 2013

DESIGN: KHA  
DRAWN: KHA  
CHECKED: KHA  
KHA NO.: 06-4362003  
CITY NO.:

SHEET  
**C4**



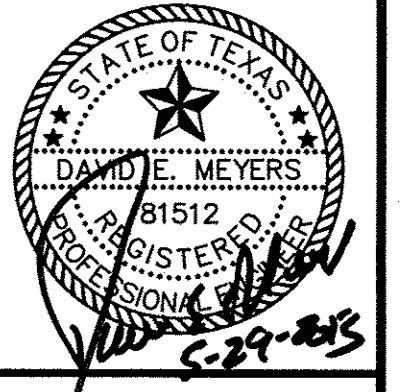
10/27/11	ADDED 8" CONCRETE, REVISED DRIVEWAY AND ADDED BARRIER FREE RAMP
2/6/12	REVISED PARALLEL PARKING AND SIDEWALK
3/27/13	ADDED PARKING AND RETAINING WALL
4/18/13	REVISED PARKING
5/29/13	REVISED PARKING

LEGEND	
	6" 4200 PSI REINFORCED CONCRETE PAVEMENT ON 6" LIME STABILIZED SUBGRADE, 28 LBS/SY COMPACTED TO A MINIMUM 95% STANDARD PROCTOR DENSITY AT 0% TO 3% OF OPTIMUM MOISTURE.
	8" 4500 PSI REINFORCED CONCRETE PAVEMENT ON 6" LIME STABILIZED SUBGRADE, 28 LBS/SY COMPACTED TO A MINIMUM 95% STANDARD PROCTOR DENSITY AT 0% TO 3% OF OPTIMUM MOISTURE.
	PROPOSED SIDEWALK REFER TO LANDSCAPE PLAN FOR LOCATION AND DETAILS
	7" 4200 PSI REINFORCED CONCRETE PAVEMENT ON A COMPACTED SUB GRADE AT A MINIMUM OF 95% STANDARD PROCTOR DENSITY AT 0% TO 3% OF OPTIMUM MOISTURE.

BENCH MARKS:	
BM5	SQUARE CUT ON INLET, SOUTHWEST CORNER OF RATLIFF LANE AND ADDISON ROAD. ELEVATION 637.20
BM8	SQUARE CUT ON INLET, SOUTHWEST CORNER OF AIRPORT PKWY. AND QUORUM DRIVE. ELEVATION 631.15
BM1	BRASS DISK FOUND AT NORTHWEST CORNER OF INLET, SOUTHWEST CORNER OF KELLER SPRINGS AND ADDISON ROAD. ELEVATION 638.91

- NOTES:**
- REFER TO DIMENSION CONTROL PLAN FOR PAVING DIMENSIONS AND CENTERLINE CONTROL.
  - REFERENCE GENERAL NOTES FOR ADDITIONAL PLAN NOTES.
  - BARRIER FREE RAMPS AND SIDEWALKS SHALL BE ADA COMPLIANT AND CONSTRUCTED PER CITY DETAILS.

Kimley-Horn and Associates, Inc.	
2700 Ross Street, Suite 200 Dallas, TX 75209-9598 Phone: 972-770-8000 Fax: 972-770-8000	Revision
1	REVISED DRIVE APPROACH SPEC
2	ADDED SIDEWALK REFERENCE AND REVISED FIRE LANE
No.	Date
	8/26/11
	9/14/11

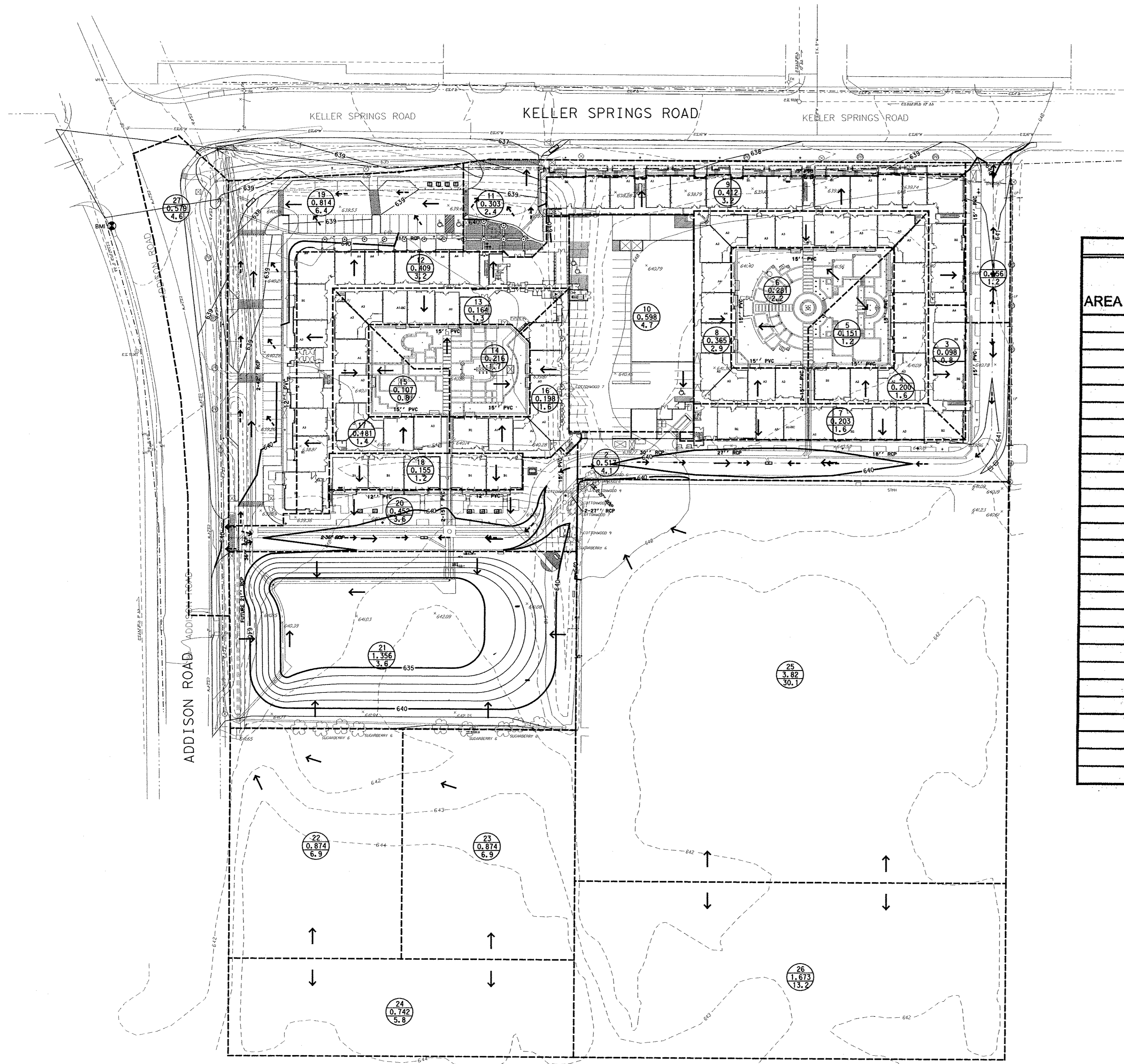


**Keller Springs Lofts**  
Loft Apartments in Addison  
Town of Addison, Texas

**PAVING PLAN**

DATE: FEBRUARY 28, 2013
DESIGN: KHA
DRAWN: KHA
CHECKED: KHA
KHA NO.: 084362003
CITY NO.:





Runoff Calculations					
AREA NO.	AREA "A" (ACRES)	Tc (MIN)	INTENSITY "I <sub>100</sub> " (IN/HR)	RUNOFF COEFF. "C"	STORM RUNOFF "Q <sub>100</sub> "
1	0.158	10	8.74	0.9	1.2
2	0.517	10	8.74	0.9	4.1
3	0.098	10	8.74	0.9	0.8
4	0.200	10	8.74	0.9	1.6
5	0.151	10	8.74	0.9	1.2
6	0.281	10	8.74	0.9	2.2
7	0.203	10	8.74	0.9	1.6
8	0.365	10	8.74	0.9	2.9
9	0.412	10	8.74	0.9	3.2
10	0.598	10	8.74	0.9	4.7
11	0.303	10	8.74	0.9	2.4
12	0.409	10	8.74	0.9	3.2
13	0.164	10	8.74	0.9	1.3
14	0.216	10	8.74	0.9	1.7
15	0.107	10	8.74	0.9	0.8
16	0.198	10	8.74	0.9	1.6
17	0.181	10	8.74	0.9	1.4
18	0.155	10	8.74	0.9	1.2
19	0.814	10	8.74	0.9	6.4
20	0.452	10	8.74	0.9	3.6
21	1.356	10	8.74	0.3	3.6
22	0.874	10	8.74	0.9	6.9
23	0.874	10	8.74	0.9	6.9
24	0.742	10	8.74	0.9	5.8
25	3.823	10	8.74	0.9	30.1
26	1.673	10	8.74	0.9	13.2
27	0.579	10	8.74	0.9	4.6

**LEGEND**

EXISTING CONTOUR      - - - 500 - - -

DRAINAGE DIVIDE LINE      - - - - -

SURFACE FLOW DIRECTION      →

DRAINAGE AREA      AREA NO. (X)  
AREA (AC) (XX.XX)  
Q100 (XX.XX)

**BENCH MARKS:**

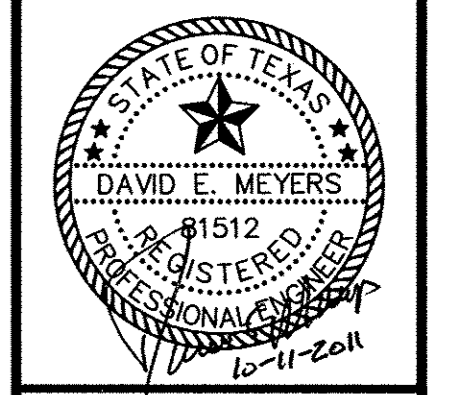
BMS  
SQUARE CUT ON INLET, SOUTHWEST CORNER OF RATLIFF LANE AND ADDISON ROAD.  
ELEVATION 637.20

BMB  
SQUARE CUT ON INLET, SOUTHWEST CORNER OF AIRPORT PKWY. AND QUORUM DRIVE.  
ELEVATION 631.15

BM1  
BRASS DISK FOUND AT NORTHWEST CORNER OF INLET, SOUTHWEST CORNER OF KELLER SPRINGS AND ADDISON ROAD.  
ELEVATION 638.91

**Kimley-Horn and Associates, Inc.**  
 5000 West Loop South, Suite 800  
 Dallas, TX 75240-8888 972-770-8000  
 Fax: 972-770-8988

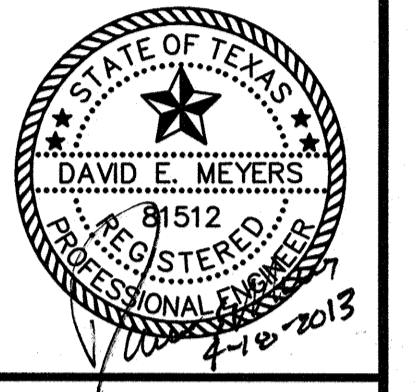
No.	Revision	Date



**Keller Springs Lofts  
Loft Apartments in Addison**  
Town of Addison, Texas

**DRAINAGE AREA MAP**

DATE: OCTOBER 11, 2011  
 DESIGN: KHA  
 DRAWN: KHA  
 CHECKED: KHA  
 KHA NO.: 064-362003  
 CITY NO.:

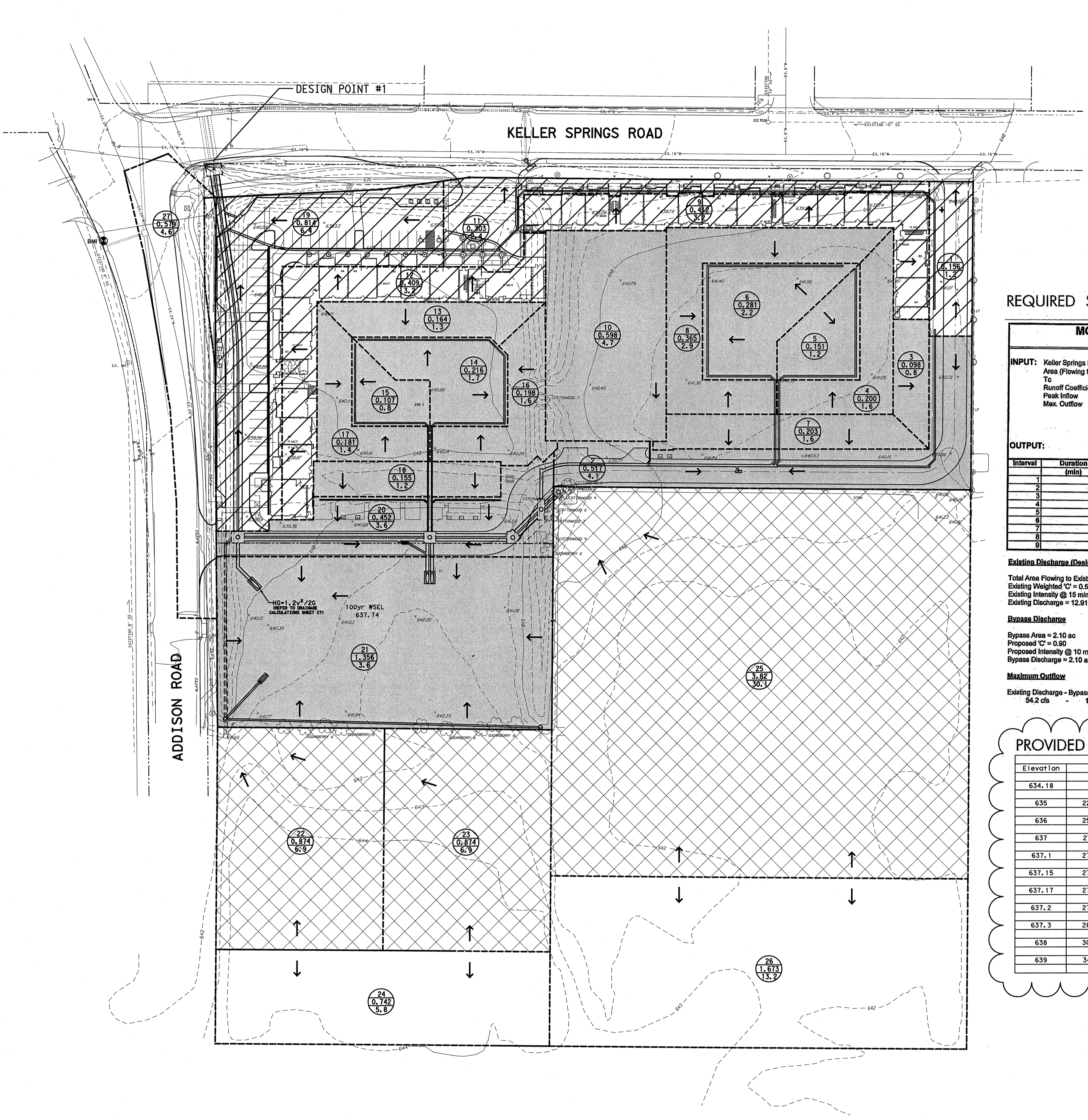


**Keller Springs Lofts  
 Loft Apartments in Addison**  
 Town of Addison, Texas

**DETENTION POND  
 CALCULATIONS**

DATE: FEBRUARY 28, 2013  
 DESIGN: KHA  
 DRAWN: KHA  
 CHECKED: KHA  
 KHA NO.: 064362003  
 CITY NO.:

SHEET  
**C6**



**LEGEND**

- EXISTING CONTOUR ---500---
- DRAINAGE DIVIDE LINE
- SURFACE FLOW DIRECTION
- DRAINAGE AREA AREA NO. \_\_\_\_\_  
 AREA (AC) \_\_\_\_\_  
 Q100 \_\_\_\_\_
- AREAS FLOWING TO POND AND BEING DETAINED
- AREAS FLOWING TO POND AND NOT BEING DETAINED
- AREAS BYPASSING POND AND BEING DETAINED FOR

**REQUIRED STORAGE**

**MODIFIED RATIONAL METHOD (DETENTION VOLUME CALCULATIONS)  
 FOR A FLOW-THROUGH SYSTEM**

**INPUT:** Keller Springs Lofts Area (Flowing to pond) 10.85 acre  
 Tc 10 min  
 Runoff Coefficient 0.9  
 Peak Inflow 86.0 cfs  
 Max. Outflow 37.7 cfs

**RAINFALL INTENSITIES (I):**

Storm Event (yr)	Intensity (in/hr)
10	6.7
15	7.5
20	6.8
30	5.9
40	5.0
50	4.4
60	3.9
70	3.6
80	3.3

**OUTPUT:**

Interval (min)	Duration (min)	Intensity (in/hr)	Qin (cfs)	Volume (in) (cf)	Volume (out) (cf)	Volume (storage) (cf)
1	10	8.7	85.3	51,208	22,620	28,588
2	15	7.5	73.4	68,000	28,275	37,815
3	20	6.8	66.4	79,582	33,850	45,732
4	30	5.8	56.1	101,068	46,240	55,828
5	40	5.0	48.8	117,180	56,550	60,630
6	50	4.4	43.0	128,898	67,280	61,618
7	60	3.9	38.2	137,452	75,170	62,282
8	70	3.6	35.2	147,847	80,450	67,187
9	80	3.3	32.2	154,678	101,790	52,888

**Existing Discharge (Design Point #1)**  
 Total Area Flowing to Existing Culverts = 12.91 ac  
 Existing Weighted 'C' = 0.66  
 Existing Intensity @ 15 min = 7.5 in/hr  
 Existing Discharge = 12.91 ac \* 0.66 \* 7.5 in/hr = 54.2 cfs

**Bypass Discharge**  
 Bypass Area = 2.10 ac  
 Proposed 'C' = 0.80  
 Proposed Intensity @ 10 min = 8.74 in/hr  
 Bypass Discharge = 2.10 ac \* 0.80 \* 8.74 in/hr = 16.5 cfs

**Maximum Outflow**  
 Existing Discharge - Bypass Discharge = Maximum Outflow  
 54.2 cfs - 16.5 cfs = **37.7 cfs**

**PROVIDED STORAGE**

Detention Pond Volume by Elevation

Elevation (ft)	Surface Area (Ac)	Incremental Volume (Ac-Ft)	Accumulated Volume (Ac-Ft)
634.18	0	0.00	0.00
635	22302	0.51	6096
636	25700	0.59	23981
637	27791	0.64	26739
637.1	27810	0.64	2780
637.15	27910	0.64	1393
637.17	27947	0.64	559
637.2	27985	0.64	839
637.3	28456	0.65	2822
638	30448	0.70	20612
639	34281	0.79	32346

**BENCH MARKS:**

BM5  
 SQUARE CUT ON INLET, SOUTHWEST CORNER OF RATLIFF LANE AND ADDISON ROAD.  
 ELEVATION 637.20

BM8  
 SQUARE CUT ON INLET, SOUTHWEST CORNER OF AIRPORT PKWY. AND QUORUM DRIVE.  
 ELEVATION 631.15

BM1  
 BRASS DISK FOUND AT NORTHWEST CORNER OF INLET, SOUTHWEST CORNER OF KELLER SPRINGS AND ADDISON ROAD.  
 ELEVATION 638.91



**CAUTION!!**  
 EXIST. GAS MAIN IN AREA  
 CONTACT TEXAS ONE CALL  
 1-800-245-4545  
 48 HOURS PRIOR TO  
 CONSTRUCTION

REMOVE & DISPOSE EXIST. INLET  
 CONST. STD. 4" DIA. MH. AT THE END  
 OF EXIST. 18" RCP.  
 STA 0+00 BEGIN 18" RCP  
 TOP= 637.05, FL= 633.03

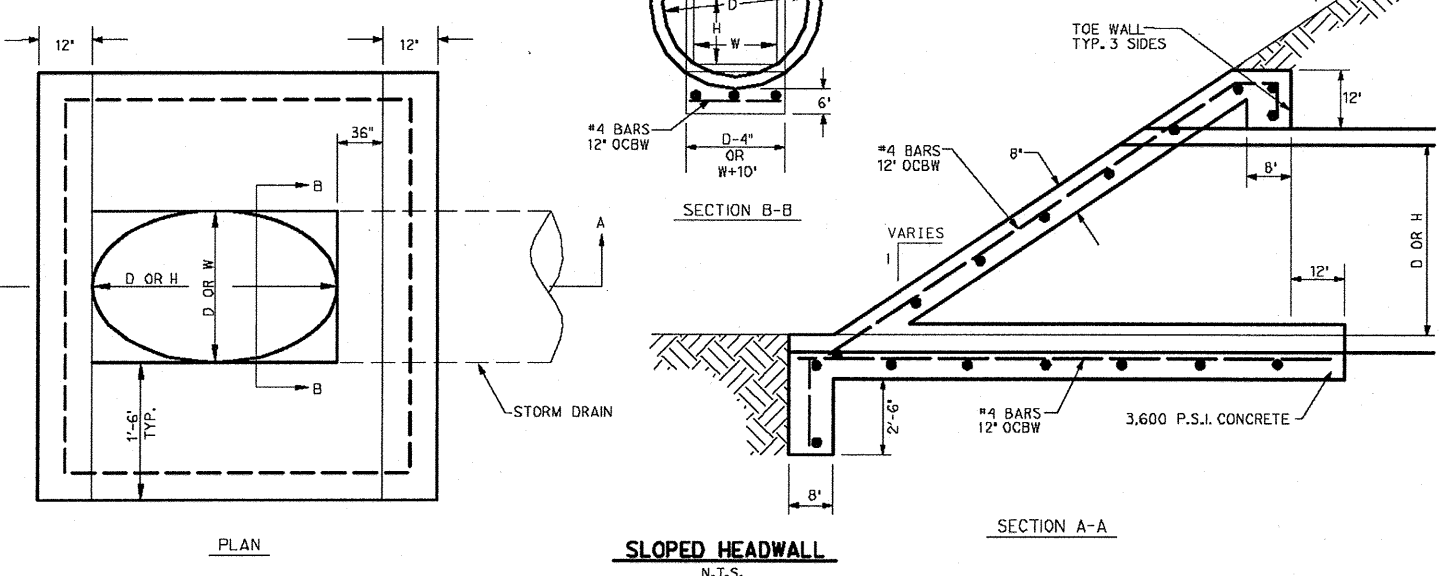
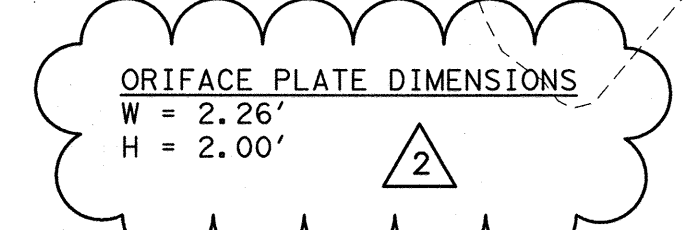
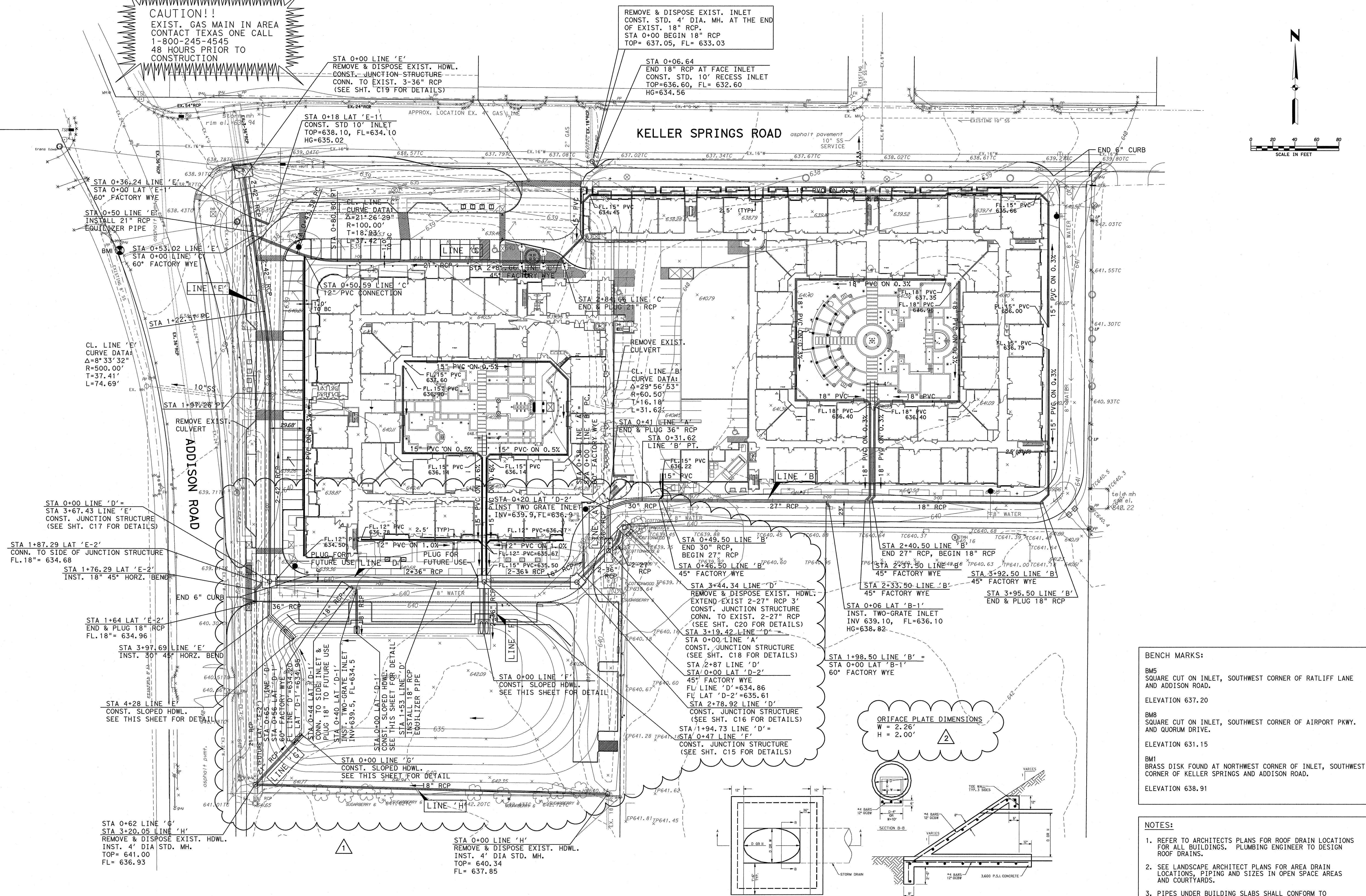
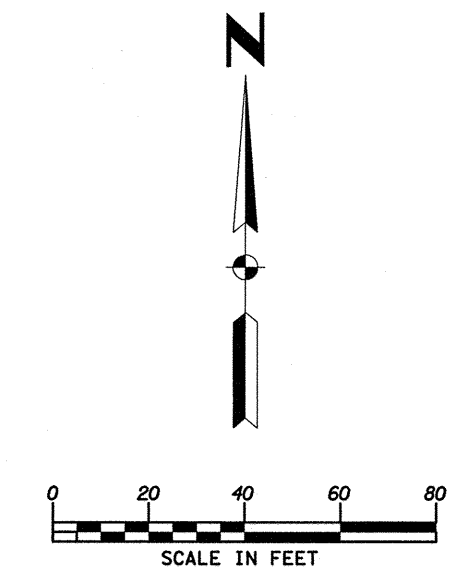
STA 0+06.64  
 END 18" RCP AT FACE INLET  
 CONST. STD. 10" RECESS INLET  
 TOP=636.60, FL= 632.60  
 HG=634.56

STA 0+18 LAT 'E-1'  
 REMOVE & DISPOSE EXIST. HDWL.  
 CONST. JUNCTION STRUCTURE  
 CONN. TO EXIST. 3-36" RCP  
 (SEE SHT. C19 FOR DETAILS)

STA 0+18 LAT 'E-1'  
 CONST. STD 10" INLET  
 TOP=638.10, FL=634.10  
 HG=635.02

CL. LINE 'C'  
 CURVE DATA:  
 $\Delta=21^{\circ}26'29"$   
 $R=100.00'$   
 $T=18.8353'$   
 $L=37.6706'$

**KELLER SPRINGS ROAD**  
 asphalt pavement  
 10" SS  
 SERVICE



**BENCH MARKS:**

BMS  
 SQUARE CUT ON INLET, SOUTHWEST CORNER OF RATLIFF LANE  
 AND ADDISON ROAD.  
 ELEVATION 637.20

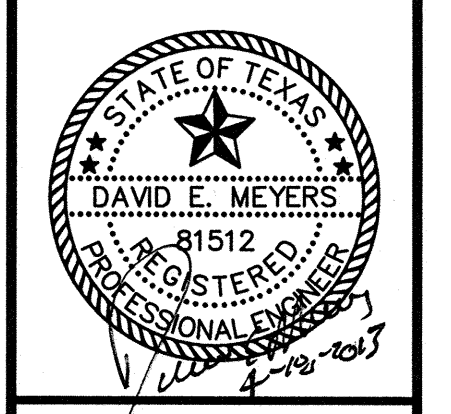
BM8  
 SQUARE CUT ON INLET, SOUTHWEST CORNER OF AIRPORT PKWY.  
 AND QUORUM DRIVE.  
 ELEVATION 631.15

BM1  
 BRASS DISK FOUND AT NORTHWEST CORNER OF INLET, SOUTHWEST  
 CORNER OF KELLER SPRINGS AND ADDISON ROAD.  
 ELEVATION 638.91

**NOTES:**

- REFER TO ARCHITECTS PLANS FOR ROOF DRAIN LOCATIONS FOR ALL BUILDINGS. PLUMBING ENGINEER TO DESIGN ROOF DRAINS.
- SEE LANDSCAPE ARCHITECT PLANS FOR AREA DRAIN LOCATIONS, PIPING AND SIZES IN OPEN SPACE AREAS AND COURTYARDS.
- PIPES UNDER BUILDING SLABS SHALL CONFORM TO PLUMBING CODE REQUIREMENTS.

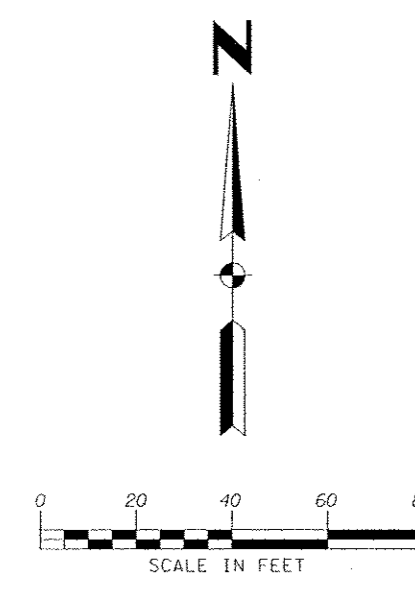
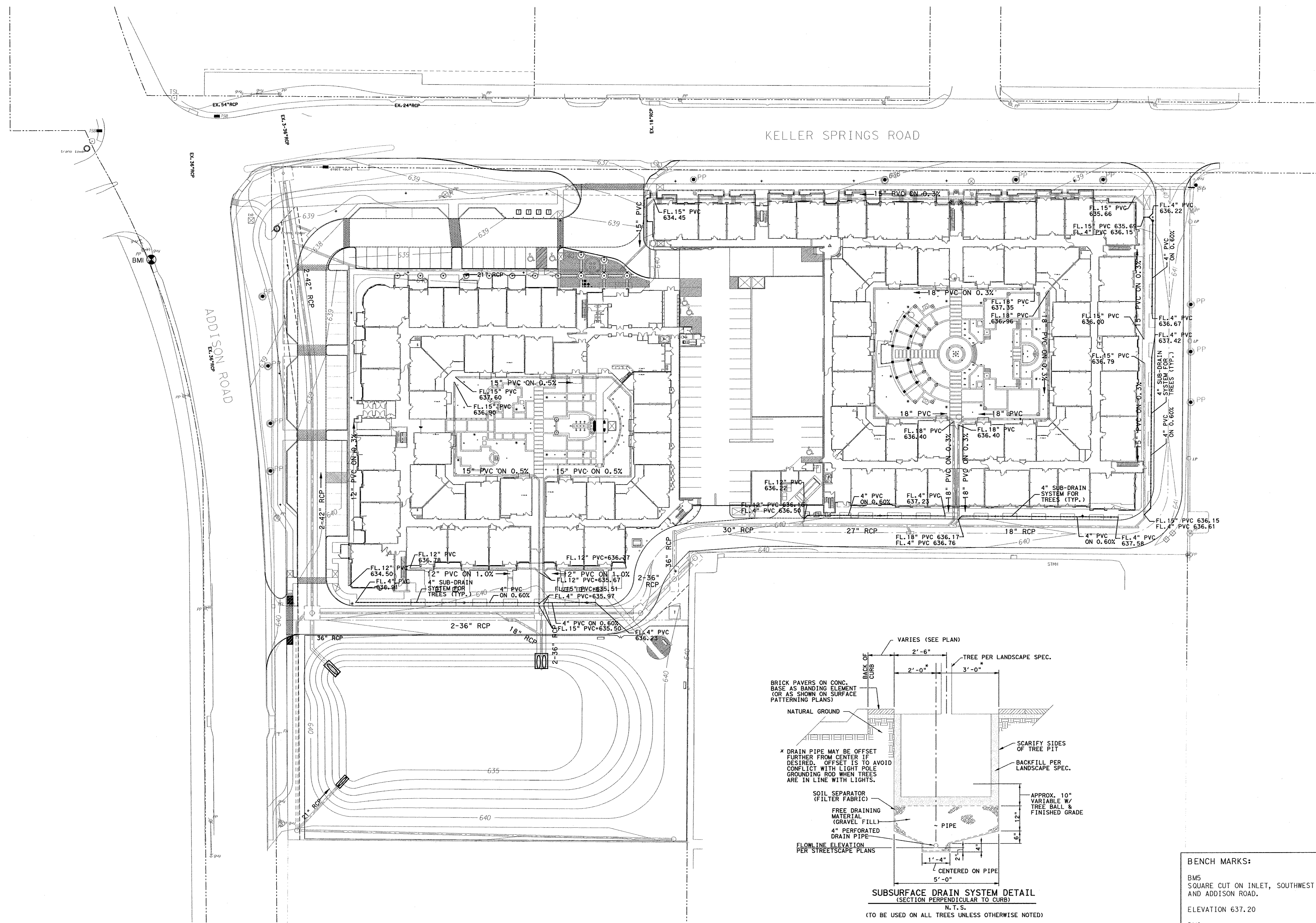
Kimley-Horn and Associates, Inc.		Date
7700 Katy, Houston, TX 77054-3000 Phone: 713-265-9500 Fax: 713-265-9501	Revision	11/17/11
	1	REVISED INLETS & STORM DRAIN
	2	REVISED ORIFACE PLATE DIM.
		4/18/13



**Keller Springs Lofts**  
 Loft Apartments in Addison  
 Town of Addison, Texas

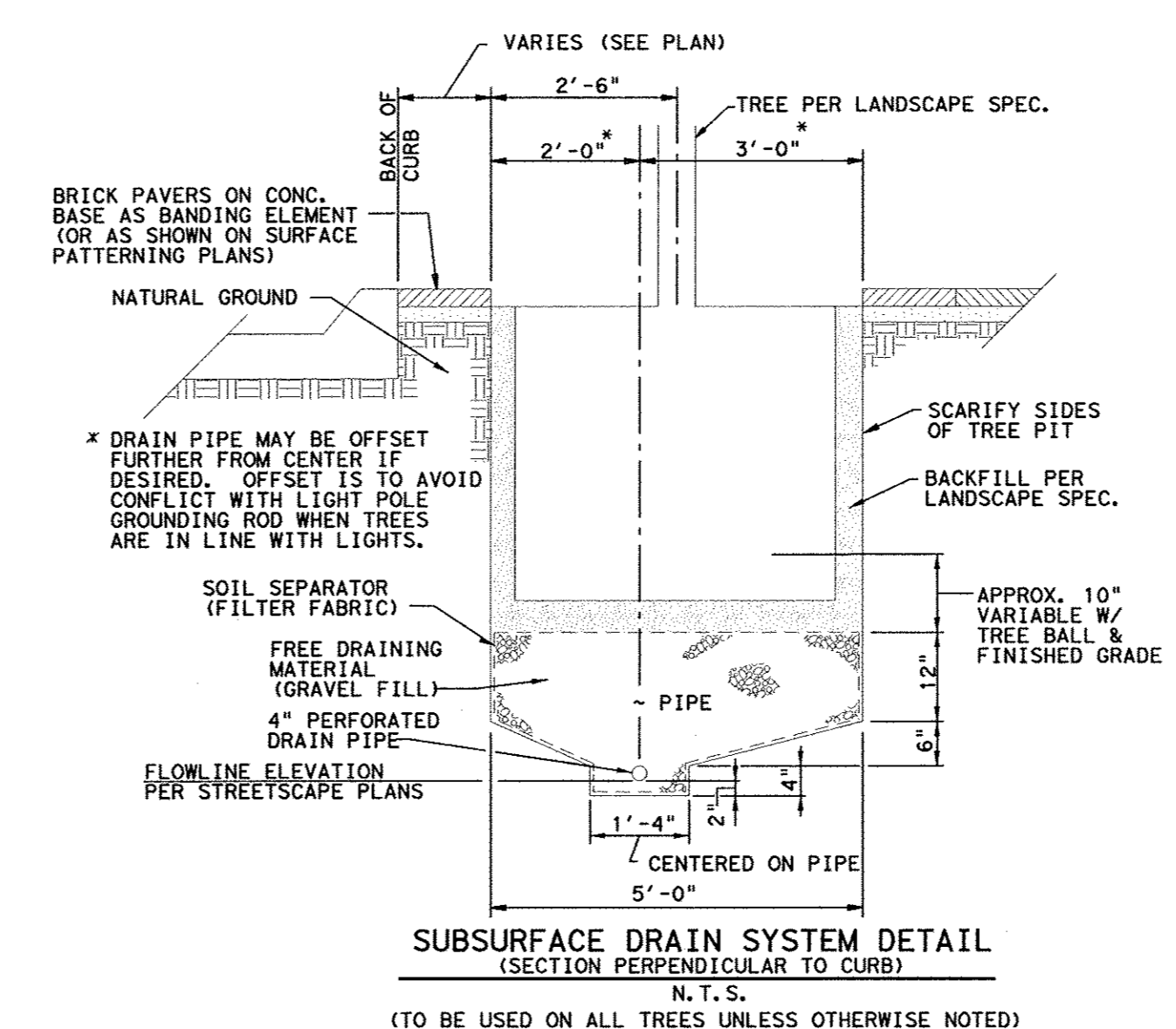
**STORM SEWER PLAN**

DATE: FEBRUARY 28, 2013	SHEET
DESIGN: KHA	
DRAWN: KHA	
CHECKED: KHA	
KHA NO: 06-4362003	<b>C8</b>
CITY NO:	



KELLER SPRINGS ROAD

ADDISON ROAD



**BENCH MARKS:**

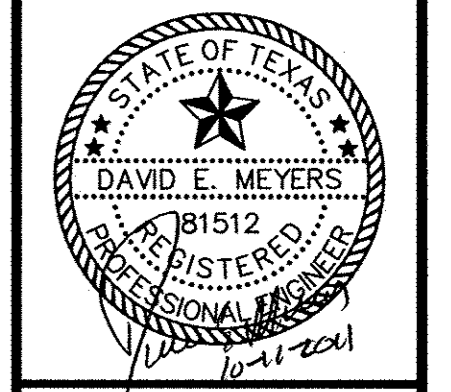
BM5  
SQUARE CUT ON INLET, SOUTHWEST CORNER OF RATLIFF LANE AND ADDISON ROAD.  
ELEVATION 637.20

BM8  
SQUARE CUT ON INLET, SOUTHWEST CORNER OF AIRPORT PKWY. AND QUORUM DRIVE.  
ELEVATION 631.15

BM1  
BRASS DISK FOUND AT NORTHWEST CORNER OF INLET, SOUTHWEST CORNER OF KELLER SPRINGS AND ADDISON ROAD.  
ELEVATION 638.91

**Kimley-Horn and Associates, Inc.**  
1000 West Park Drive, Suite 800  
Dallas, TX 75208-1888 Tel: 214-770-8000  
Fax: 214-770-8000

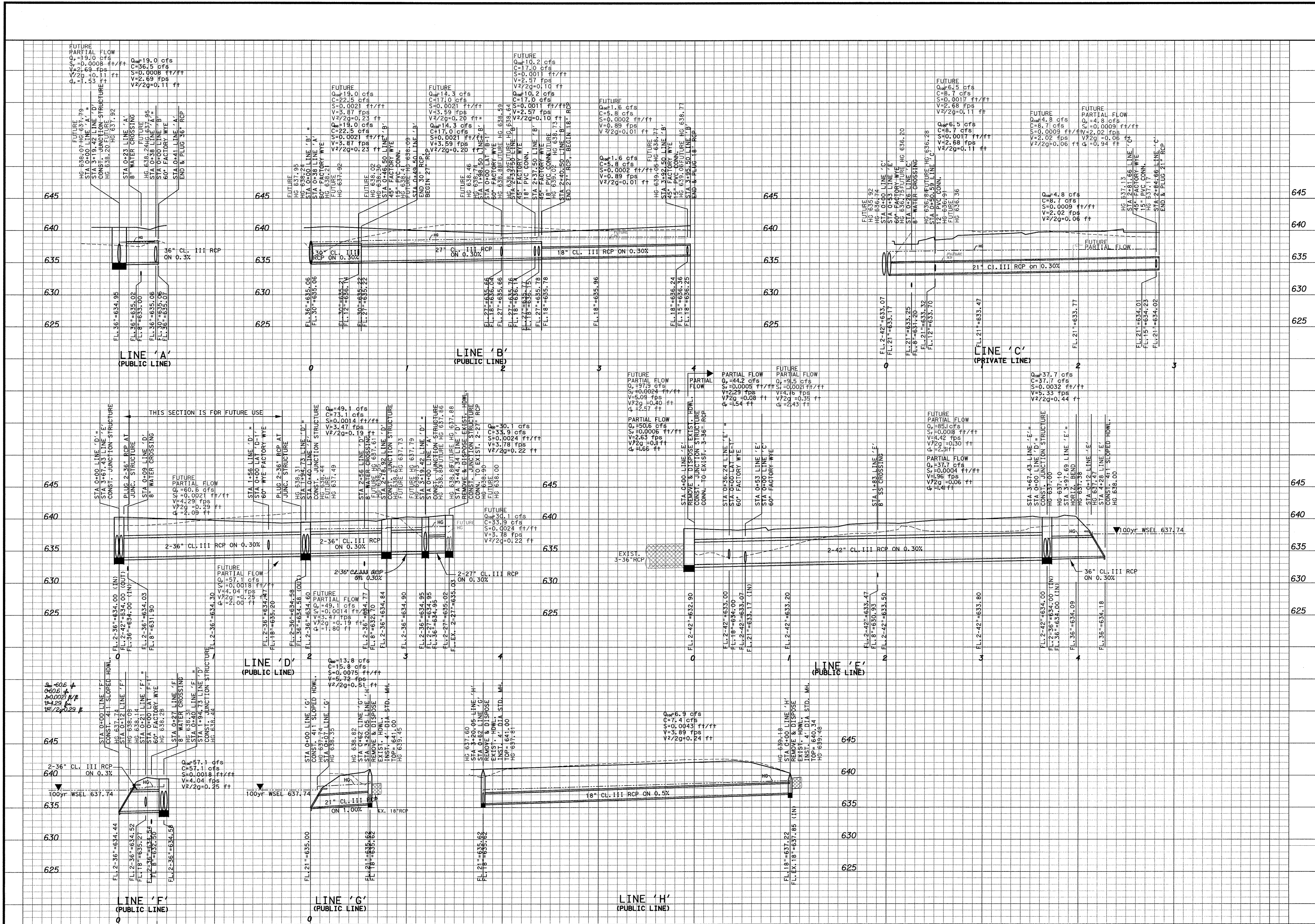
No.	Revision	Date



**Keller Springs Lofts**  
**Loft Apartments in Addison**  
Town of Addison, Texas

**TREE DRAIN PLAN**

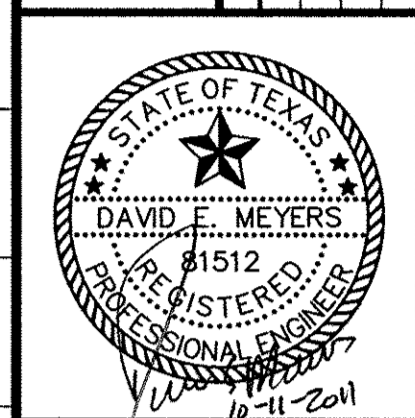
DATE: OCTOBER 11, 2011
DESIGN: KHA
DRAWN: KHA
CHECKED: KHA
KHA NO.: 064362003
CITY NO.:



Kimley-Horn  
and Associates, Inc.

1500 West 13th Street  
Suite 200  
Addison, TX 75001-4090  
Phone: 972-382-8800  
Fax: 972-382-8801

No. \_\_\_\_\_  
Revision \_\_\_\_\_  
Date \_\_\_\_\_

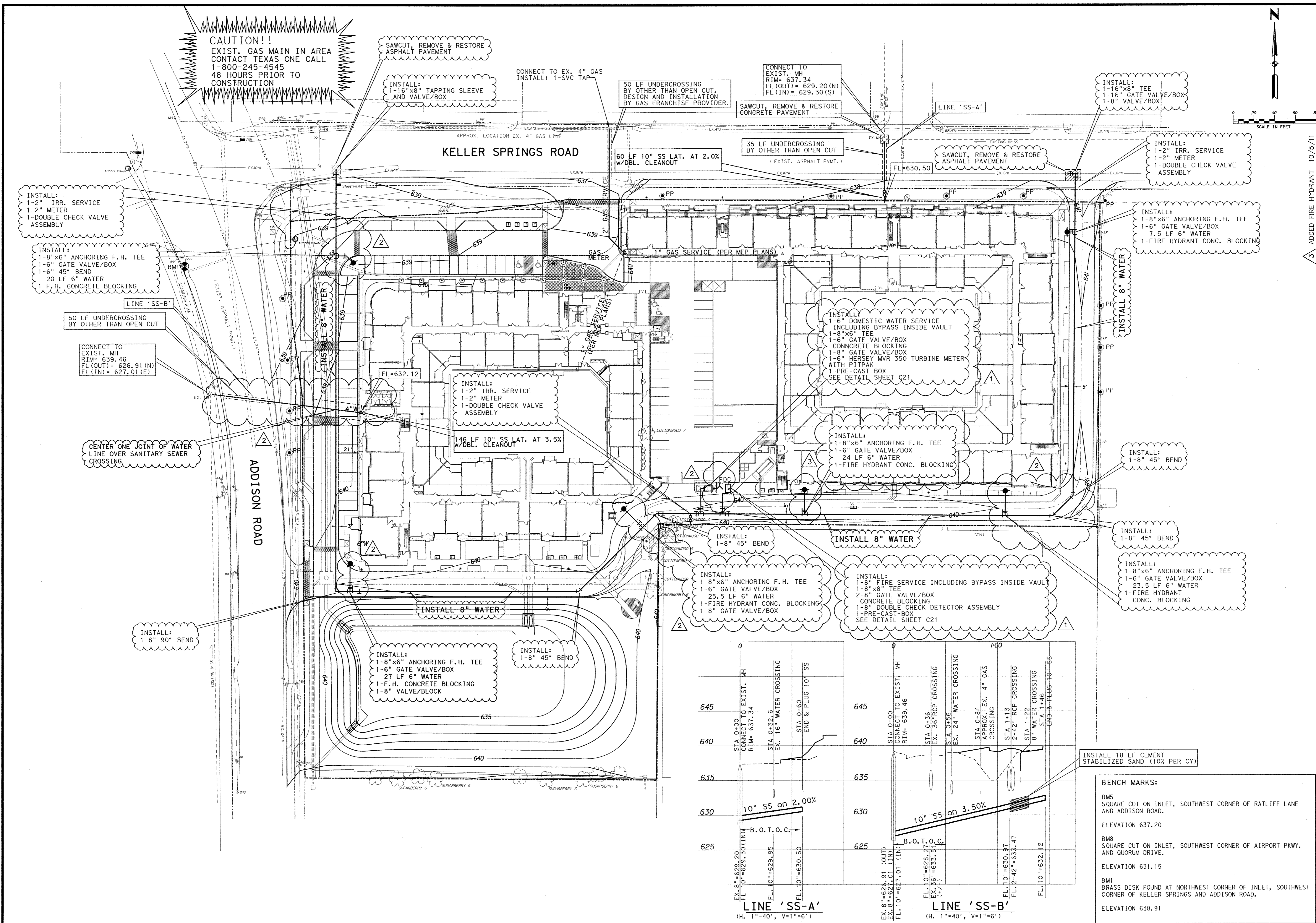


**Keller Springs Lofts**  
Loft Apartments in Addison  
Town of Addison, Texas

**STORM SEWER PROFILES**

DATE: OCTOBER 11, 2011  
DESIGN: KHA  
DRAWN: KHA  
CHECKED: KHA  
KHA NO: 064-362003  
CITY NO: \_\_\_\_\_

SHEET  
**C9**



**CAUTION!!**  
 EXIST. GAS MAIN IN AREA  
 CONTACT TEXAS ONE CALL  
 1-800-245-4545  
 48 HOURS PRIOR TO  
 CONSTRUCTION

SAWCUT, REMOVE & RESTORE  
 ASPHALT PAVEMENT

INSTALL:  
 1-16"x8" TAPPING SLEEVE  
 AND VALVE/BOX

CONNECT TO EX. 4" GAS LINE  
 INSTALL: 1-SVC TAP

50 LF UNDERCROSSING  
 BY OTHER THAN OPEN CUT,  
 DESIGN AND INSTALLATION  
 BY GAS FRANCHISE PROVIDER.

CONNECT TO  
 EXIST. MH  
 RIM= 637.34  
 FL (OUT) = 629.20 (N)  
 FL (IN) = 629.30 (S)

SAWCUT, REMOVE & RESTORE  
 CONCRETE PAVEMENT

LINE 'SS-A'

INSTALL:  
 1-16"x8" TEE  
 1-16" GATE VALVE/BOX  
 1-8" VALVE/BOX

INSTALL:  
 1-2" IRR. SERVICE  
 1-2" METER  
 1-DOUBLE CHECK VALVE  
 ASSEMBLY

INSTALL:  
 1-2" IRR. SERVICE  
 1-2" METER  
 1-DOUBLE CHECK VALVE  
 ASSEMBLY

INSTALL:  
 1-8"x6" ANCHORING F.H. TEE  
 1-6" GATE VALVE/BOX  
 1-6" 45° BEND  
 20 LF 6" WATER  
 1-F.H. CONCRETE BLOCKING

LINE 'SS-B'

50 LF UNDERCROSSING  
 BY OTHER THAN OPEN CUT

CONNECT TO  
 EXIST. MH  
 RIM= 639.46  
 FL (OUT) = 626.91 (N)  
 FL (IN) = 627.01 (E)

CENTER ONE JOINT OF WATER  
 LINE OVER SANITARY SEWER  
 CROSSING

ADDISON ROAD

KELLER SPRINGS ROAD

INSTALL:  
 1-2" IRR. SERVICE  
 1-2" METER  
 1-DOUBLE CHECK VALVE  
 ASSEMBLY

146 LF 10" SS LAT. AT 3.5%  
 W/DBL. CLEANOUT

INSTALL:  
 1-6" DOMESTIC WATER SERVICE  
 INCLUDING BYPASS INSIDE VAULT  
 1-8"x6" TEE  
 1-6" GATE VALVE/BOX  
 CONCRETE BLOCKING  
 1-8" GATE VALVE/BOX  
 1-6" HERSEY MVR 350 TURBINE METER  
 WITH PITPAK  
 1-PRE-CAST BOX  
 SEE DETAIL SHEET C21

INSTALL:  
 1-8"x6" ANCHORING F.H. TEE  
 1-6" GATE VALVE/BOX  
 24 LF 6" WATER  
 1-FIRE HYDRANT CONC. BLOCKING

INSTALL:  
 1-8"x6" ANCHORING F.H. TEE  
 1-6" GATE VALVE/BOX  
 7.5 LF 6" WATER  
 1-FIRE HYDRANT CONC. BLOCKING

INSTALL 8" WATER

INSTALL:  
 1-8" 45° BEND

INSTALL 8" WATER

INSTALL:  
 1-8" 45° BEND

INSTALL:  
 1-8" 45° BEND

INSTALL:  
 1-8"x6" ANCHORING F.H. TEE  
 1-6" GATE VALVE/BOX  
 23.5 LF 6" WATER  
 1-FIRE HYDRANT  
 CONC. BLOCKING

INSTALL:  
 1-8"x6" ANCHORING F.H. TEE  
 1-6" GATE VALVE/BOX  
 27 LF 6" WATER  
 1-F.H. CONCRETE BLOCKING  
 1-8" VALVE/BLOCK

INSTALL:  
 1-8" 45° BEND

INSTALL:  
 1-8"x6" ANCHORING F.H. TEE  
 1-6" GATE VALVE/BOX  
 25.5 LF 6" WATER  
 1-FIRE HYDRANT CONC. BLOCKING  
 1-8" GATE VALVE/BOX

INSTALL:  
 1-8" FIRE SERVICE INCLUDING BYPASS INSIDE VAULT  
 1-8"x8" TEE  
 2-8" GATE VALVE/BOX  
 CONCRETE BLOCKING  
 1-8" DOUBLE CHECK DETECTOR ASSEMBLY  
 1-PRE-CAST BOX  
 SEE DETAIL SHEET C21

INSTALL 18 LF CEMENT  
 STABILIZED SAND (10% PER CY)

BENCH MARKS:

BM5  
 SQUARE CUT ON INLET, SOUTHWEST CORNER OF RATLIFF LANE  
 AND ADDISON ROAD.

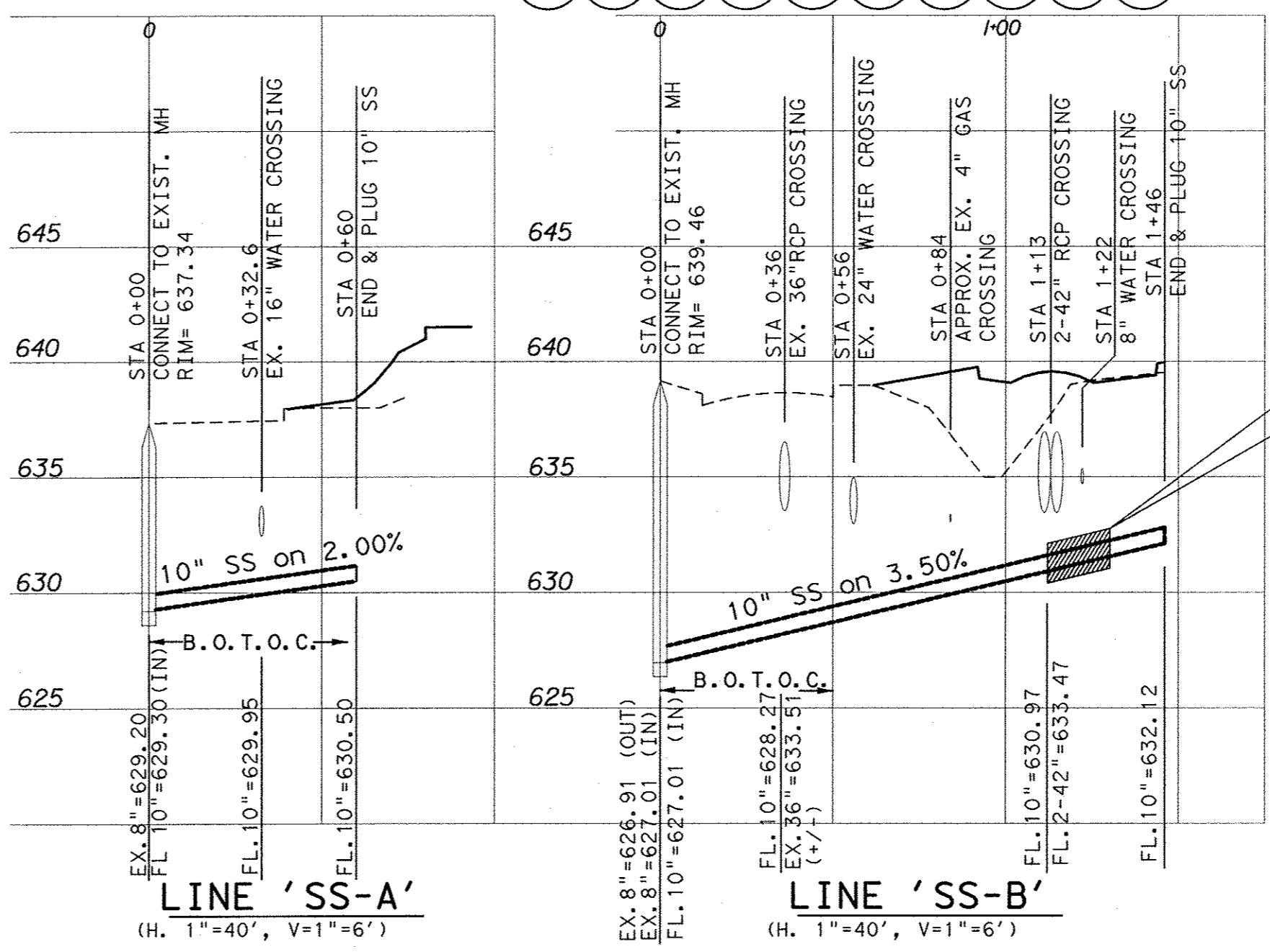
ELEVATION 637.20

BM8  
 SQUARE CUT ON INLET, SOUTHWEST CORNER OF AIRPORT PKWY.  
 AND QUORUM DRIVE.

ELEVATION 631.15

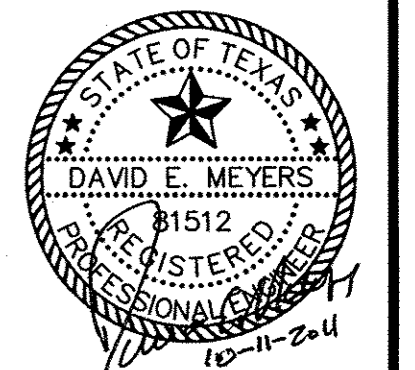
BM1  
 BRASS DISK FOUND AT NORTHWEST CORNER OF INLET, SOUTHWEST  
 CORNER OF KELLER SPRINGS AND ADDISON ROAD.

ELEVATION 638.91



Kimley-Horn  
 and Associates, Inc.

Revision	Date
1	REVISED WATER SERVICE AND FIRE SERVICE NOTES
2	RELOCATED FIRE HYDRANTS PER TOWN & REVISED LINE SS-B

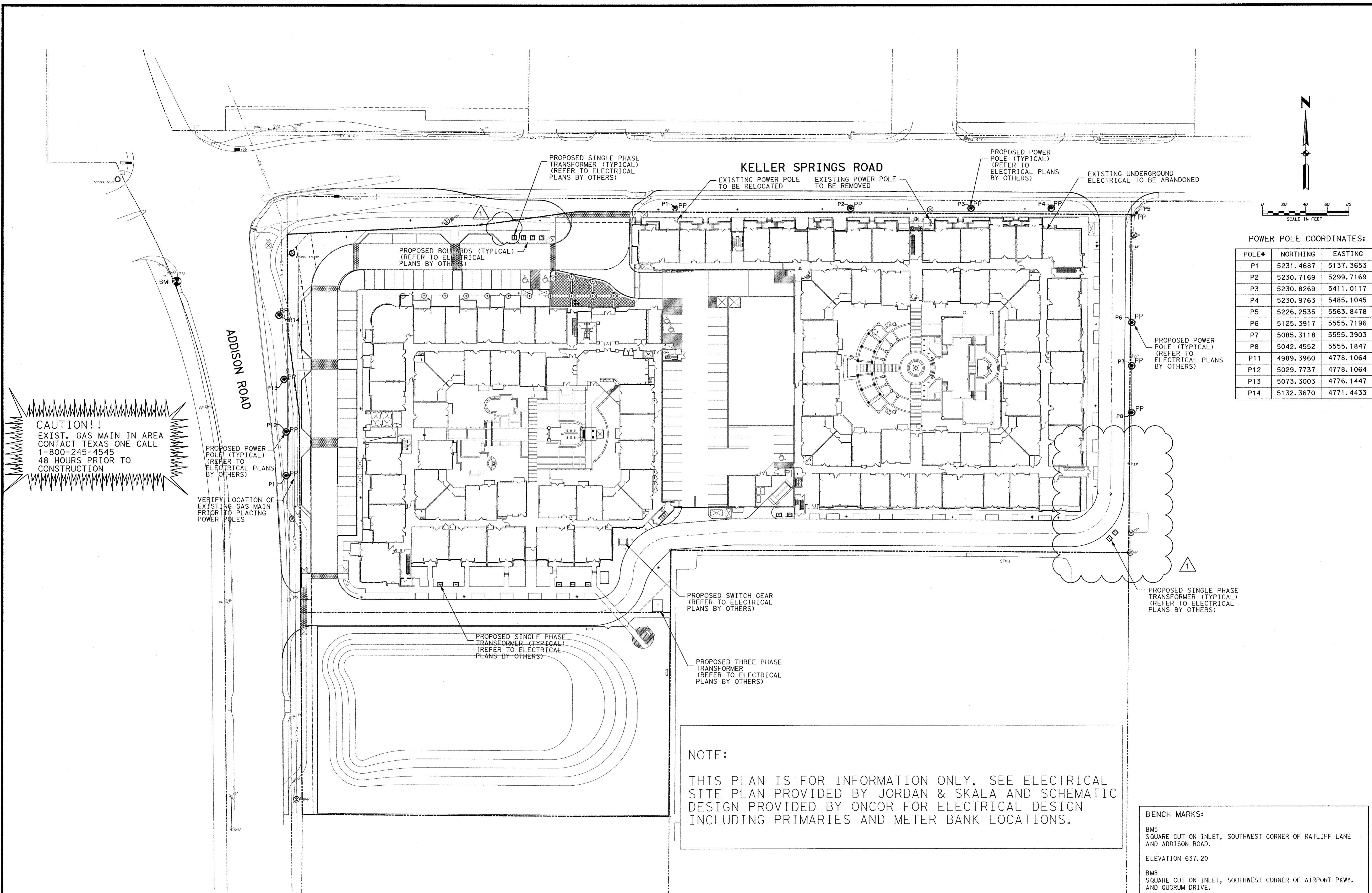


**Keller Springs Lofts**  
 Loft Apartments in Addison  
 Town of Addison, Texas

**WATER AND WASTEWATER**  
 PLAN - PROFILE

DATE:	OCTOBER 11, 2011
DESIGN:	KHA
DRAWN:	KHA
CHECKED:	KHA
KHA NO.:	06-4362003
CITY NO.:	

SHEET  
**C10**



**CAUTION!!**  
 EXIST. GAS MAIN IN AREA  
 CONTACT TEXAS ONE CALL  
 1-800-245-4545  
 48 HOURS PRIOR TO  
 CONSTRUCTION

PROPOSED POWER  
 POLE (TYPICAL)  
 (REFER TO ELECTRICAL  
 PLANS BY OTHERS)

VERIFY LOCATION OF  
 EXISTING GAS MAIN  
 PRIOR TO PLACING  
 POWER POLES

PROPOSED BOLLARDS (TYPICAL)  
 (REFER TO ELECTRICAL  
 PLANS BY OTHERS)

PROPOSED SINGLE PHASE  
 TRANSFORMER (TYPICAL)  
 (REFER TO ELECTRICAL  
 PLANS BY OTHERS)

EXISTING POWER POLE  
 TO BE RELOCATED

EXISTING POWER POLE  
 TO BE REMOVED

PROPOSED POWER  
 POLE (TYPICAL)  
 (REFER TO  
 ELECTRICAL PLANS  
 BY OTHERS)

EXISTING UNDERGROUND  
 ELECTRICAL TO BE ABANDONED

PROPOSED POWER  
 POLE (TYPICAL)  
 (REFER TO  
 ELECTRICAL PLANS  
 BY OTHERS)

PROPOSED SWITCH GEAR  
 (REFER TO ELECTRICAL  
 PLANS BY OTHERS)

PROPOSED SINGLE PHASE  
 TRANSFORMER (TYPICAL)  
 (REFER TO ELECTRICAL  
 PLANS BY OTHERS)

PROPOSED THREE PHASE  
 TRANSFORMER  
 (REFER TO ELECTRICAL  
 PLANS BY OTHERS)

PROPOSED SINGLE PHASE  
 TRANSFORMER (TYPICAL)  
 (REFER TO ELECTRICAL  
 PLANS BY OTHERS)

**NOTE:**  
 THIS PLAN IS FOR INFORMATION ONLY. SEE ELECTRICAL  
 SITE PLAN PROVIDED BY JORDAN & SKALA AND SCHEMATIC  
 DESIGN PROVIDED BY ONCOR FOR ELECTRICAL DESIGN  
 INCLUDING PRIMARIES AND METER BANK LOCATIONS.

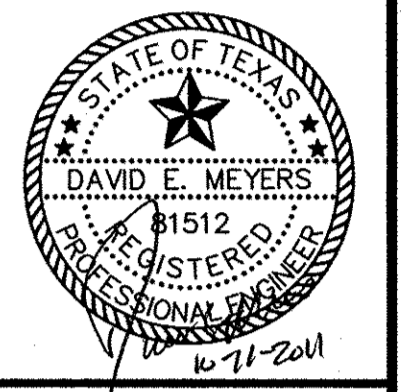
POWER POLE COORDINATES:

POLE#	NORTHING	EASTING
P1	5231.4687	5137.3653
P2	5230.7169	5299.7169
P3	5230.8269	5411.0117
P4	5230.9763	5485.1045
P5	5226.2535	5563.8478
P6	5125.3917	5555.7196
P7	5085.3118	5555.3903
P8	5042.4552	5555.1847
P11	4989.3960	4778.1064
P12	5029.7737	4778.1064
P13	5073.3003	4776.1447
P14	5132.3670	4771.4433

**BENCH MARKS:**  
 BM5  
 SQUARE CUT ON INLET, SOUTHWEST CORNER OF RATLIFF LANE  
 AND ADDISON ROAD.  
 ELEVATION 637.20  
 BM6  
 SQUARE CUT ON INLET, SOUTHWEST CORNER OF AIRPORT PKWY.  
 AND QUORUM DRIVE.  
 ELEVATION 631.15  
 BM1  
 BRASS DISK FOUND AT NORTHWEST CORNER OF INLET, SOUTHWEST  
 CORNER OF KELLER SPRINGS AND ADDISON ROAD.  
 ELEVATION 638.91

**Kimley-Horn  
 and Associates, Inc.**  
 1700 West Central Expressway, Suite 800  
 Irving, Texas 75038  
 Phone: 972.261.1111  
 Fax: 972.261.1112  
 Email: kha@kimley-horn.com

Revision: 1  
 REVISOR: TRANSFORMERS AND  
 POWER POLE LAYOUTS  
 Date: 9/19/11

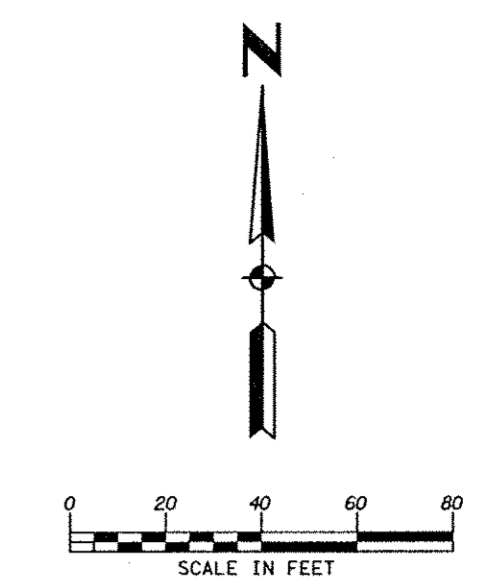
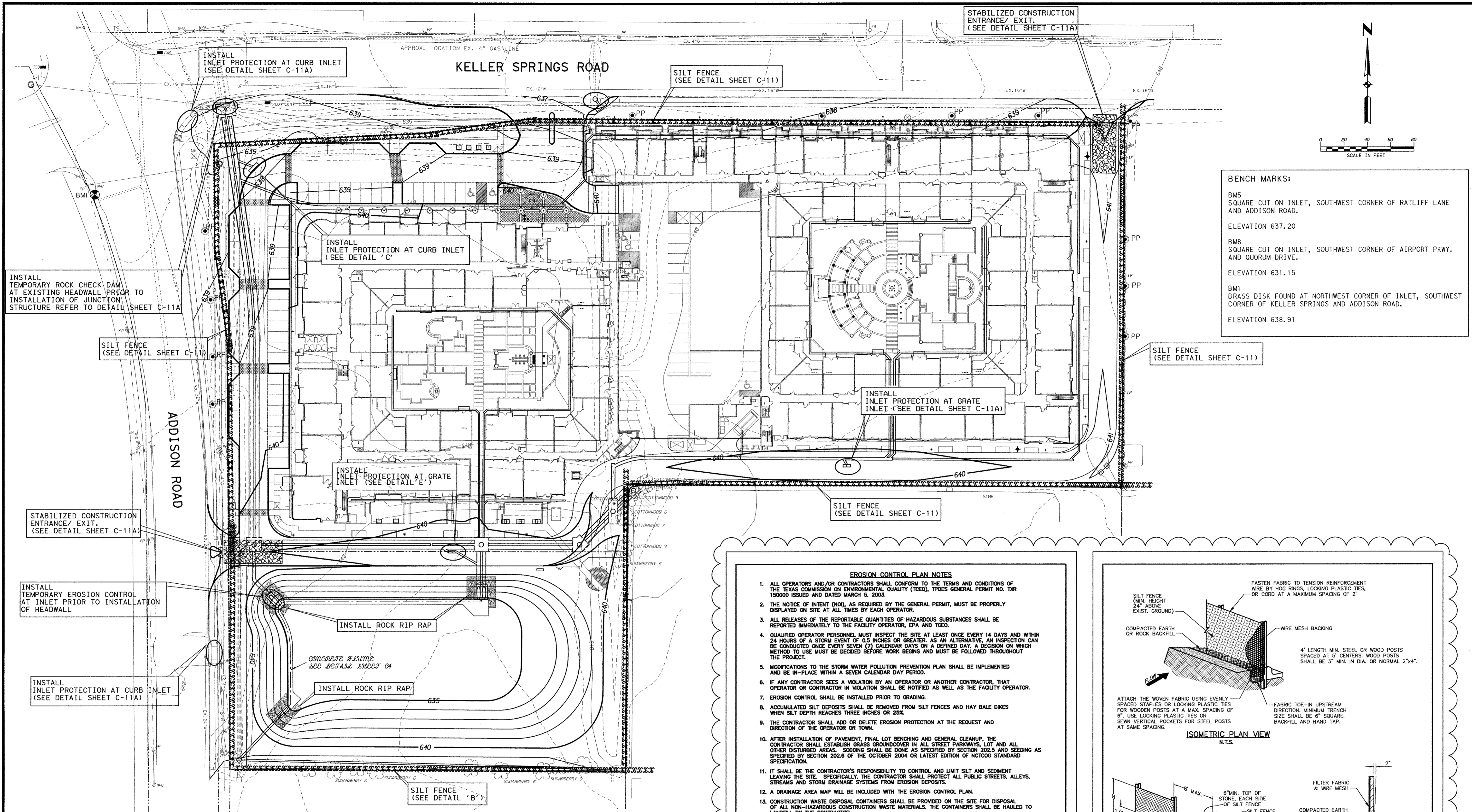


**Keller Springs Lofts  
 Loft Apartments in Addison**  
 Town of Addison, Texas

**ELECTRICAL SITE PLAN**

DATE: OCTOBER 11, 2011  
 DESIGN: KHA  
 DRAWN: KHA  
 CHECKED: KHA  
 KHA NO.: 064362003  
 CITY NO.:





**BENCH MARKS:**

BM5  
SQUARE CUT ON INLET, SOUTHWEST CORNER OF RATLIFF LANE AND ADDISON ROAD.  
ELEVATION 637.20

BM8  
SQUARE CUT ON INLET, SOUTHWEST CORNER OF AIRPORT PKWY. AND QUORUM DRIVE.  
ELEVATION 631.15

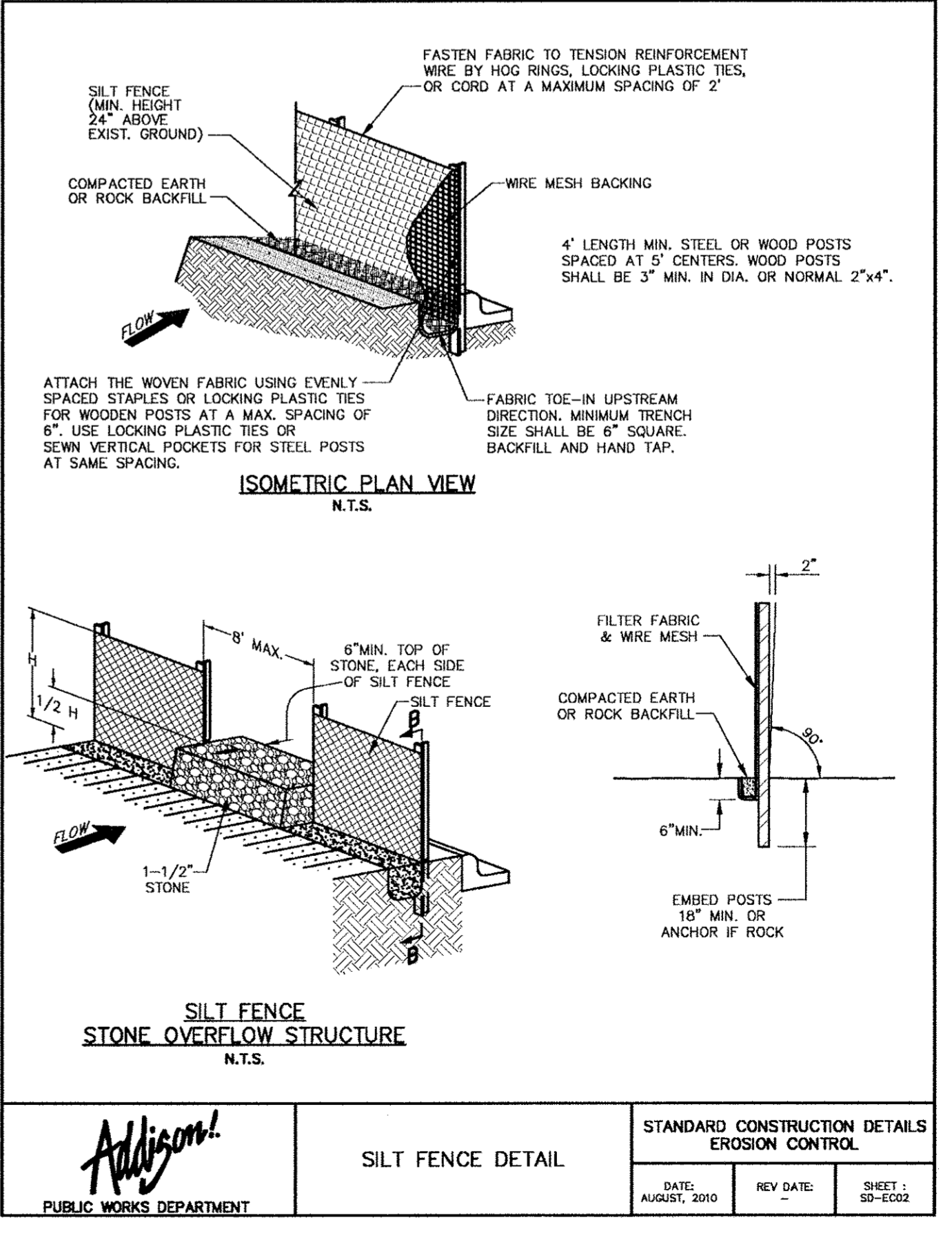
BM1  
BRASS DISK FOUND AT NORTHWEST CORNER OF INLET, SOUTHWEST CORNER OF KELLER SPRINGS AND ADDISON ROAD.  
ELEVATION 638.91

**EROSION CONTROL PLAN NOTES**

1. ALL OPERATORS AND/OR CONTRACTORS SHALL CONFORM TO THE TERMS AND CONDITIONS OF THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ), TPDES GENERAL PERMIT NO. TDR 150000 ISSUED AND DATED MARCH 5, 2003.
2. THE NOTICE OF INTENT (NOI), AS REQUIRED BY THE GENERAL PERMIT, MUST BE PROPERLY DISPLAYED ON SITE AT ALL TIMES BY EACH OPERATOR.
3. ALL RELEASES OF THE REPORTABLE QUANTITIES OF HAZARDOUS SUBSTANCES SHALL BE REPORTED IMMEDIATELY TO THE FACILITY OPERATOR, EPA AND TCEQ.
4. QUALIFIED OPERATOR PERSONNEL MUST INSPECT THE SITE AT LEAST ONCE EVERY 14 DAYS AND WITHIN 24 HOURS OF A STORM EVENT OF 0.5 INCHES OR GREATER. AS AN ALTERNATIVE, AN INSPECTION CAN BE CONDUCTED ONCE EVERY SEVEN (7) CALENDAR DAYS ON A DESIGNATED DAY. A DECISION ON WHICH METHOD TO USE MUST BE DECIDED BEFORE WORK BEGINS AND MUST BE FOLLOWED THROUGHOUT THE PROJECT.
5. MODIFICATIONS TO THE STORM WATER POLLUTION PREVENTION PLAN SHALL BE IMPLEMENTED AND BE IN-PLACE WITHIN A SEVEN CALENDAR DAY PERIOD.
6. IF ANY CONTRACTOR SEES A VIOLATION BY AN OPERATOR OR ANOTHER CONTRACTOR, THAT OPERATOR OR CONTRACTOR IN VIOLATION SHALL BE NOTIFIED AS WELL AS THE FACILITY OPERATOR.
7. EROSION CONTROL SHALL BE INSTALLED PRIOR TO GRADING.
8. ACCUMULATED SILT DEPOSITS SHALL BE REMOVED FROM SILT FENCES AND HAY BALE DIKES WHEN SILT DEPTH REACHES THREE INCHES OR 25%.
9. THE CONTRACTOR SHALL ADD OR DELETE EROSION PROTECTION AT THE REQUEST AND DIRECTION OF THE OPERATOR OR TOWN.
10. AFTER INSTALLATION OF PAVEMENT, FINAL LOT BENCHING AND GENERAL CLEANUP, THE CONTRACTOR SHALL ESTABLISH GRASS GROUNDCOVER IN ALL STREET PARKWAYS, LOT AND ALL OTHER DISTURBED AREAS. SOODING SHALL BE DONE AS SPECIFIED BY SECTION 202.6 AND SEEDING AS SPECIFIED BY SECTION 202.6 OF THE OCTOBER 2004 OR LATEST EDITION OF NCTCOG STANDARD SPECIFICATION.
11. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTROL AND LIMIT SILT AND SEDIMENT LEAVING THE SITE. SPECIFICALLY, THE CONTRACTOR SHALL PROTECT ALL PUBLIC STREETS, ALLEYS, STREAMS AND STORM DRAINAGE SYSTEMS FROM EROSION DEPOSITS.
12. A DRAINAGE AREA MAP WILL BE INCLUDED WITH THE EROSION CONTROL PLAN.
13. CONSTRUCTION WASTE DISPOSAL CONTAINERS SHALL BE PROVIDED ON THE SITE FOR DISPOSAL OF ALL NON-HAZARDOUS CONSTRUCTION WASTE MATERIALS. THE CONTAINERS SHALL BE HAULED TO LANDFILL BY THE CONTRACTOR.
14. ALL HAZARDOUS MATERIALS SHALL BE HANDLED AND DISPOSED OF BY THE CONTRACTOR IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

**SILT FENCE NOTES**

1. POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. THE POST MUST BE EMBEDDED A MINIMUM OF 18 INCHES.
2. THE TOP OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SHARPE OR MECHANICAL TRENCHER, SO THAT THE TRENCHING DEPTH IS AT LEAST 6 INCHES AND PERPENDICULAR TO THE LINE OF FLOW. WIRE MESH SHALL BE TRENCHED IN THE PAVEMENT WITH A WEIGHT FABRIC FLAP WITH WASHED GRAVEL ON THE UPHILL SIDE TO PREVENT FLOW UNDER FENCE.
3. THE TRENCH MUST BE A MINIMUM OF 8 INCHES DEEP AND 8 INCHES WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL.
4. SILT FENCE SHALL BE SECURELY FASTENED TO EACH SUPPORT POST OR TO WOVEN WIRE, WHICH IS IN TURN ATTACHED TO THE SUPPORT POST. THERE SHALL BE A 6 INCH DOUBLE OVERLAP, SECURELY FASTENED WHERE ENDS OF FABRIC MEET.
5. INSPECTION SHALL BE MADE EVERY TWO WEEKS OR AFTER EACH RAINFALL. REPAIR OR REPLACEMENT SHALL BE PROMPTLY AS NEEDED.
6. SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPIDE STORM FLOW OR DRAINAGE.
7. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 3 INCHES. THE SILT SHALL BE SLATED AT AN APPROVED SITE AND IN SUCH A MANNER AS TO NOT CONTRIBUTE TO ADDITIONAL

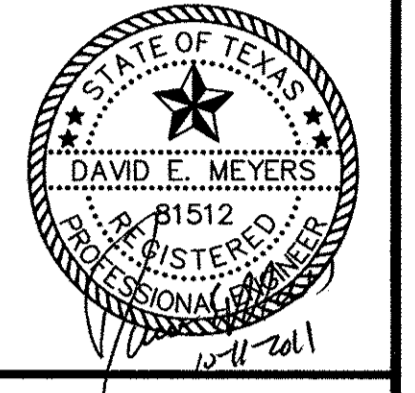


 PUBLIC WORKS DEPARTMENT	<b>EROSION CONTROL &amp; SILT FENCE NOTES</b>	STANDARD CONSTRUCTION DETAILS EROSION CONTROL
	DATE: AUGUST, 2010	REV DATE:

 PUBLIC WORKS DEPARTMENT	<b>SILT FENCE DETAIL</b>	STANDARD CONSTRUCTION DETAILS EROSION CONTROL
	DATE: AUGUST, 2010	REV DATE:

Kimley-Horn and Associates, Inc.  
2700 Per. Comm. Drive, Suite 900  
Dallas, TX 75243  
Phone: 972-770-7000  
Fax: 972-770-7001

DATE: 8/26/11  
REVISION: 1  
REVISION: TOWN DETAILS

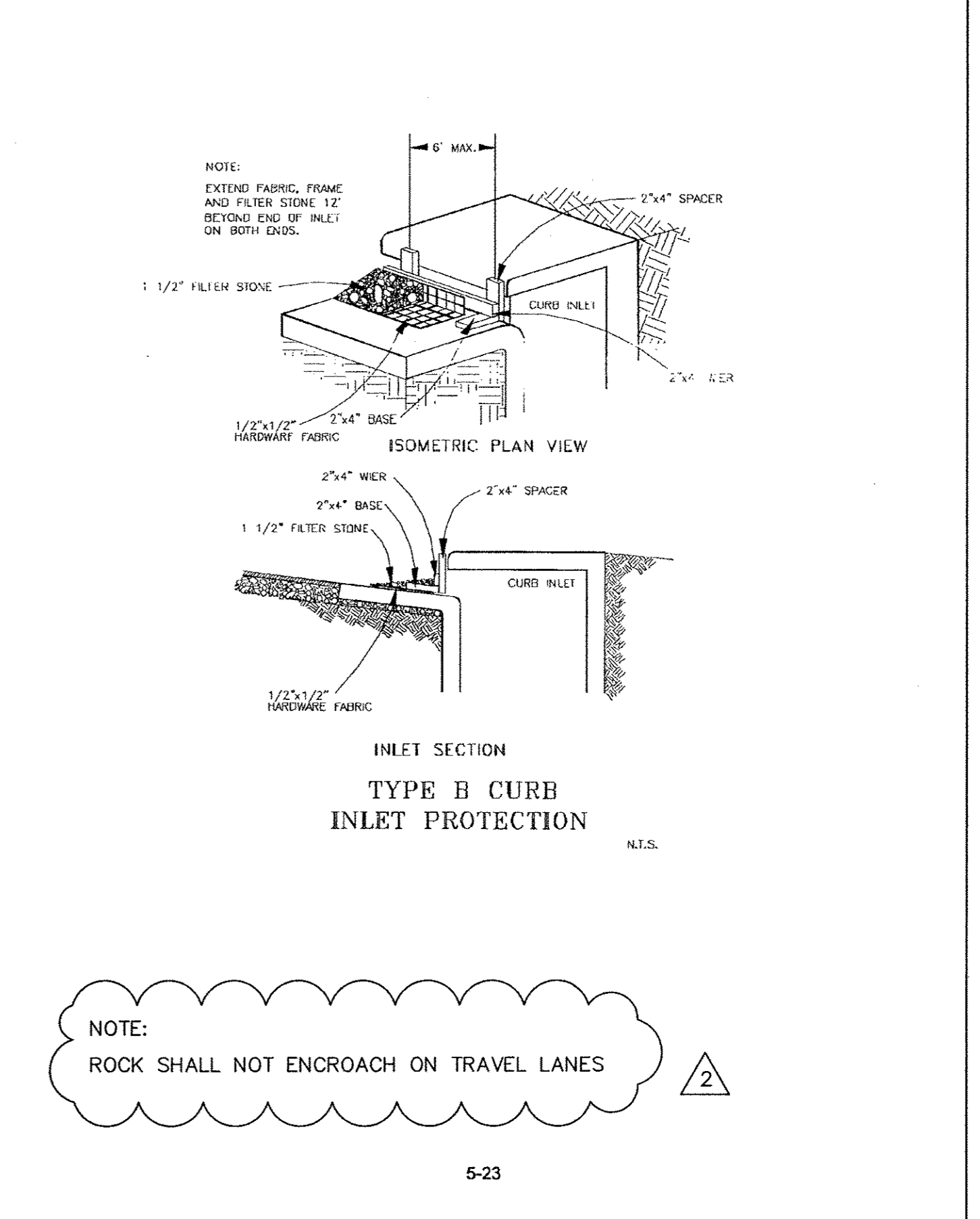
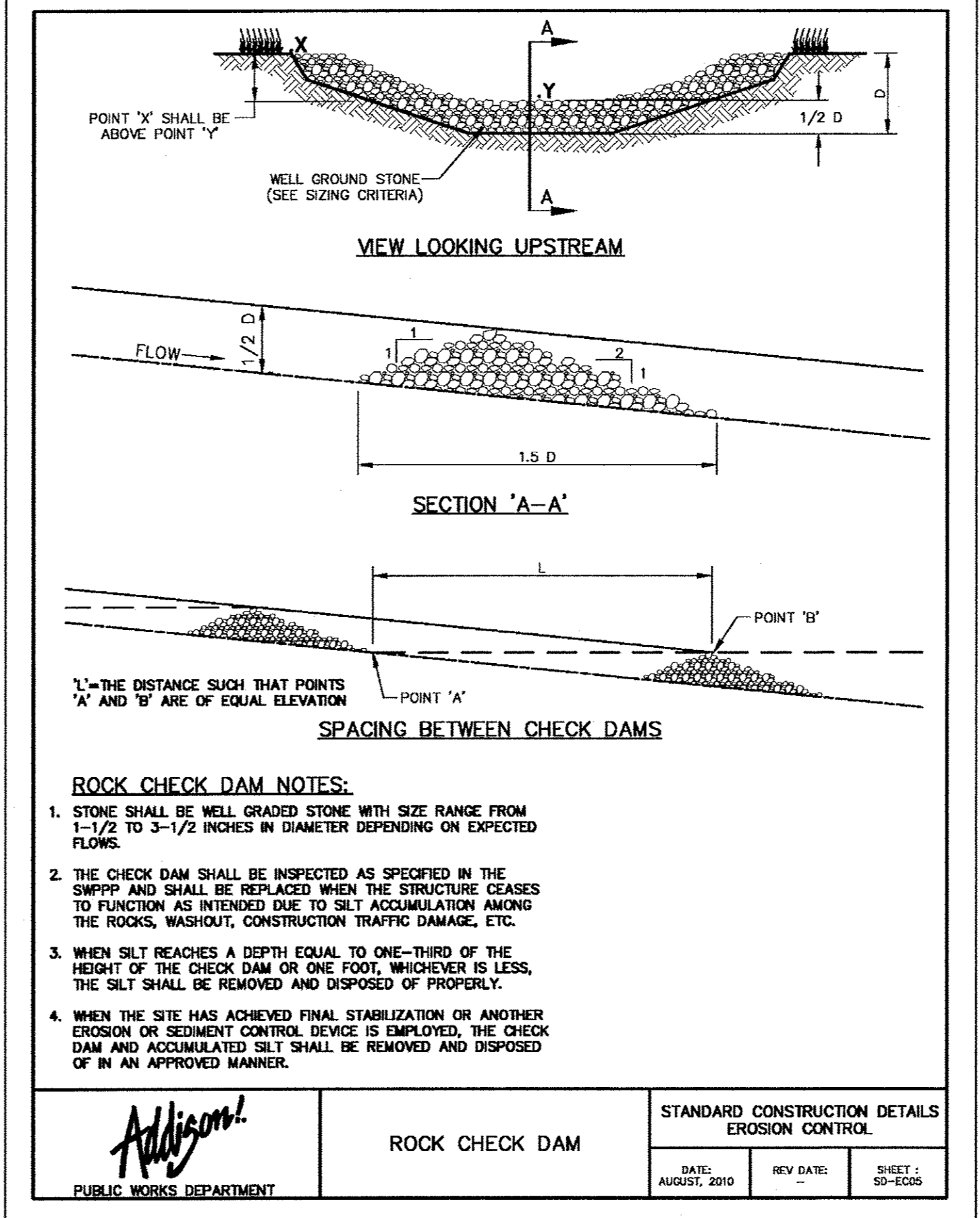
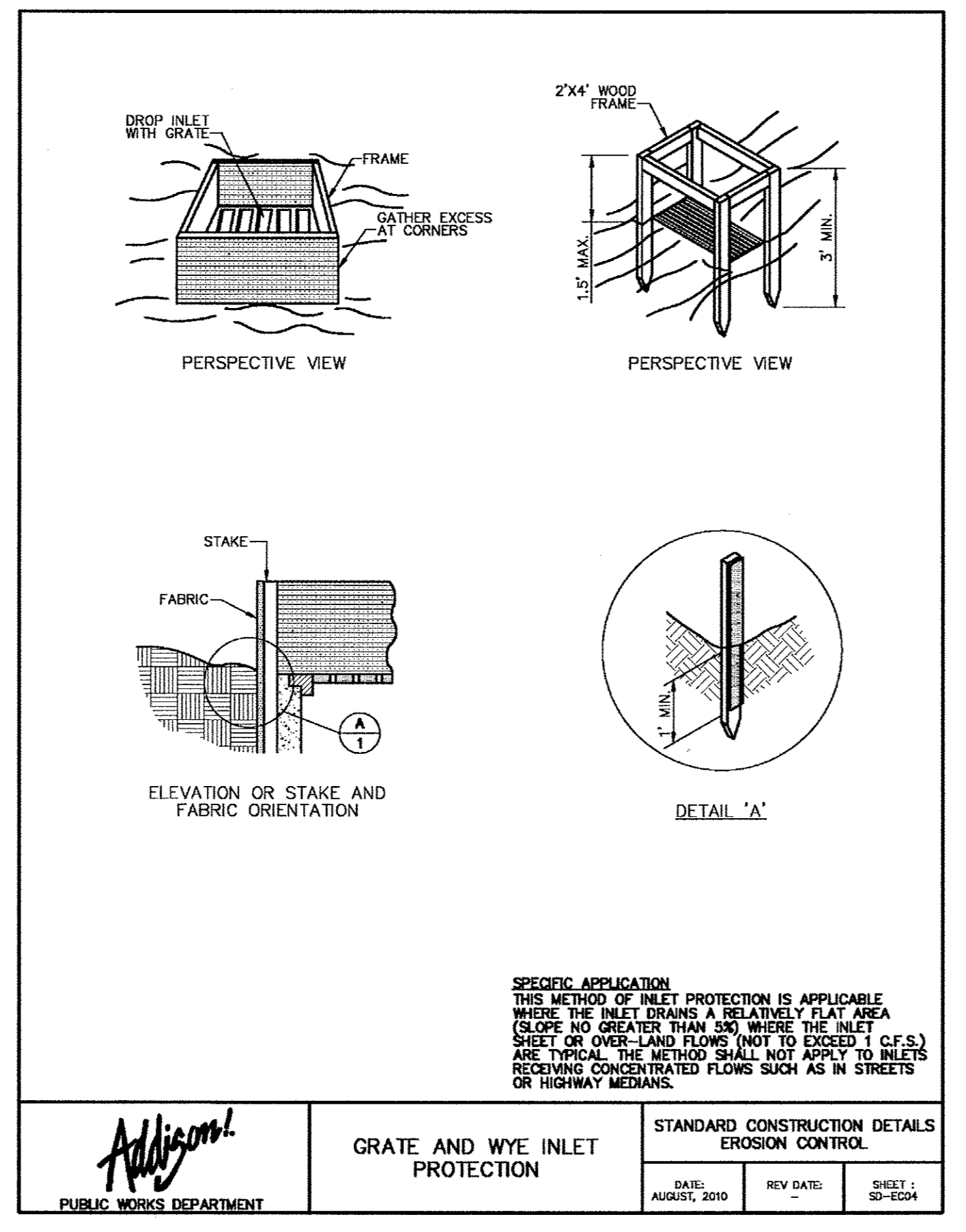
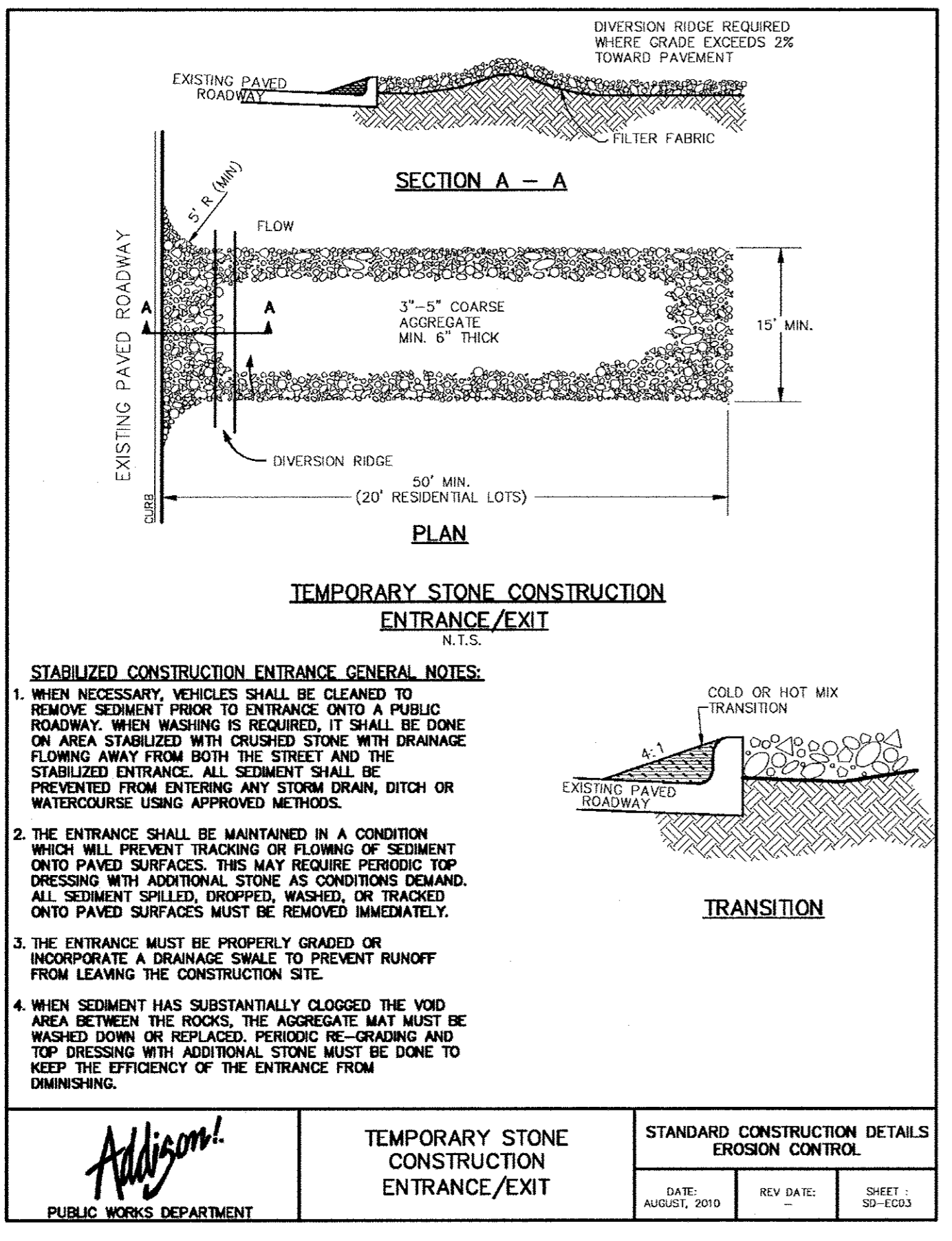


**Keller Springs Lofts**  
**Loft Apartments in Addison**  
Town of Addison, Texas

**POLLUTION CONTROL PLAN**

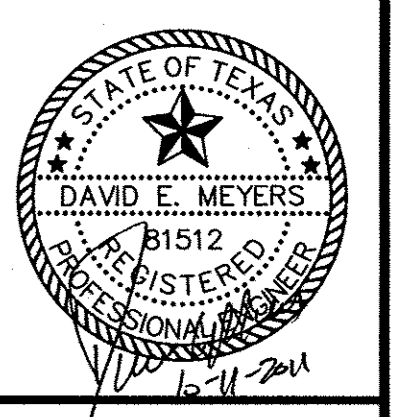
DATE: OCTOBER 11, 2011  
DESIGN: KHA  
DRAWN: KHA  
CHECKED: KHA  
KHA NO.: 06-4362003  
CITY NO.:

SHEET  
**C11**



Kimley-Horn and Associates, Inc.

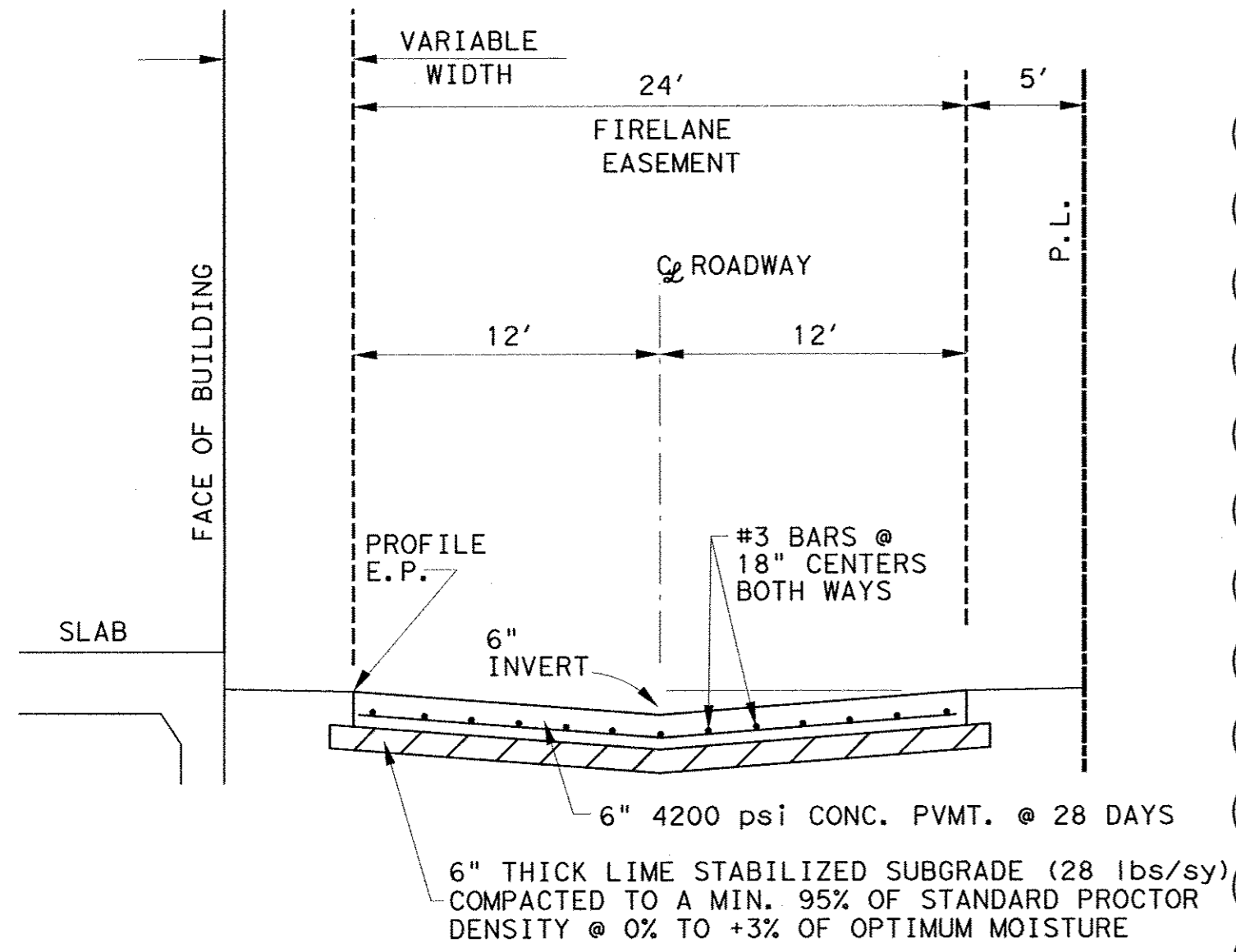
NO.	REVISION	DATE
1	REVISED TOWN DETAILS	8/26/11
2	REVISED TYPE B CURB INLET PROTECTION DETAIL	9/19/11



**Keller Springs Lofts**  
**Loft Apartments in Addison**  
Town of Addison, Texas

**POLLUTION CONTROL PLAN**

DATE: OCTOBER 11, 2011
DESIGN: KHA
DRAWN: KHA
CHECKED: KHA
KHA NO.: 064-362003
CITY NO.:



FIRELANE  
BEHIND BUILDING  
LOOKING NORTH/EAST

PAVING - GENERAL NOTES

- GENERAL: PAVEMENT THICKNESS IS AS SHOWN IN ITEM 7. SUBGRADE DESIGN SHALL CONFORM TO TOWN OF ADDISON PUBLIC WORKS REQUIREMENTS IN ITEM 3, AND SHALL EXTEND 12" MIN. BEHIND THE BACK OF CURB.
- REINFORCED CONCRETE PAVEMENT:
  - CONCRETE STRENGTH SHALL BE AS SHOWN IN ITEM 7 (NCTCOG LATEST EDITION).
  - ALL CURBS SHALL BE INTEGRAL WITH PAVEMENT AND SHALL BE OF THE SAME STRENGTH AS CONCRETE PAVEMENT.
  - DETAIL AND ARRANGEMENT OF PAVEMENT JOINTS, ALL TYPES, SHALL BE AS SHOWN ON THE TOWN STANDARD CONSTRUCTION DETAILS.
  - BAR LAPS SHALL BE THIRTY DIAMETERS.
  - REINFORCING STEEL SHALL BE #3 REBAR (3/8") ON 18" CENTERS FOR 8" OR LESS, #4 FOR 10" OR ABOVE.
- SUBGRADE: SUBGRADE UNDER ALL PAVEMENT SHALL BE 6" THICK AND SHALL BE STABILIZED WITH AT LEAST 30 LBS. PER SQ. YD. HYDRATED LIME, COMPACTED TO A DENSITY NOT LESS THAN 95 PERCENT. LABORATORY TESTS MUST BE SUBMITTED TO THE PUBLIC WORKS DEPARTMENT FOR APPROVAL TO DETERMINE AMOUNT OF LIME REQUIRED. LABORATORY TEST MAY BE WAIVED PROVIDED AT LEAST 30 LBS. OF LIME PER SQ. YD. IS USED. SEE NCTCOG ITEM 301.2 "LIME TREATMENT", FLEXIBLE BASE (CRUSHED STONE/CONCRETE) PER NCTCOG ITEM 301.5 MAY BE SUBSTITUTED FOR LIME TREATMENT WITH THE APPROVAL OF THE TOWN ENGINEER.
- REBAR SHALL BE SUPPORTED BY BAR CHAIRS OR OTHER DEVICES APPROVED BY TOWN ENGINEER.
- NO TRAFFIC ON FINISHED SUBGRADE SHALL BE PERMITTED AFTER REINFORCING STEEL IS INSTALLED ABOVE SUBGRADE. NO TRAFFIC SHALL BE PERMITTED BEFORE OR DURING THE PLACING OF CONCRETE.
- CROSS SLOPE OF STRAIGHT CROWN STREETS SHALL BE 1/4" PER FOOT UNLESS APPROVED BY THE TOWN ENGINEER.
- PAVEMENT THICKNESS AND STRENGTHS SHALL BE AS FOLLOWS:
 

MAJOR ARTERIAL	- 10" CLASS "P1" OR "P2."
MINOR ARTERIAL	- 8" CLASS "P1" OR "P2."
COMMERCIAL/INDUSTRIAL COLLECTOR	- 8" CLASS "P1" OR "P2."
RESIDENTIAL LOCAL	- 8" CLASS "P1" OR "P2."
SIDEWALK AND BRW	- 4" CLASS "A"
DRIVE APPROACH	- 8" CLASS "P2"
ALLEY	- 8" CLASS "P1" OR "P2."
- CONCRETE MIX DESIGN SHALL BE AS DEFINED BY NCTCOG 303.3.
- ALL MEDIANS AND PARKWAYS SHALL BE PROVIDED WITH BERMUDA GROUND COVER.
- ONCE A CURB ABUTTING A THOROUGHFARE HAS BEEN SAWCUT AND REMOVED, THE CONTRACTOR MUST REPLACE THE CONCRETE WITH A NEW POUR (A DRIVEWAY) WITHIN 14 CALENDAR DAYS. LIQUIDATED DAMAGES WILL BE ASSESSED AT \$500 PER DAY FOR EACH CALENDAR DAY IN EXCESS OF 14 CALENDAR DAYS. PAYMENT SHALL BE MADE PRIOR TO ACCEPTANCE OR ISSUANCE OF A CERTIFICATE OF OCCUPANCY.
- ALL SIDEWALKS AND ACCESSIBLE ROUTES SHALL HAVE A MAXIMUM LONGITUDINAL SLOPE OF 5% AND A MAXIMUM CROSS SLOPE OF 2%.
- ALLEYS AND DRIVEWAYS
  - CONCRETE FOR ALLEY RETURNS AND DRIVEWAYS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS IDENTICAL TO THAT SPECIFIED FOR THE STREET PAVEMENT OR BASE WHEN BUILT AS COMPONENTS OF A CONCRETE PAVING PROJECT. WHEN BUILT SEPARATELY, THE STRENGTH SHALL BE AS SPECIFIED ON THE CONSTRUCTION PLAN.
  - SPACING AND CONSTRUCTION OF JOINTS SHALL CONFORM TO PARABOLIC STREET PAVEMENT.

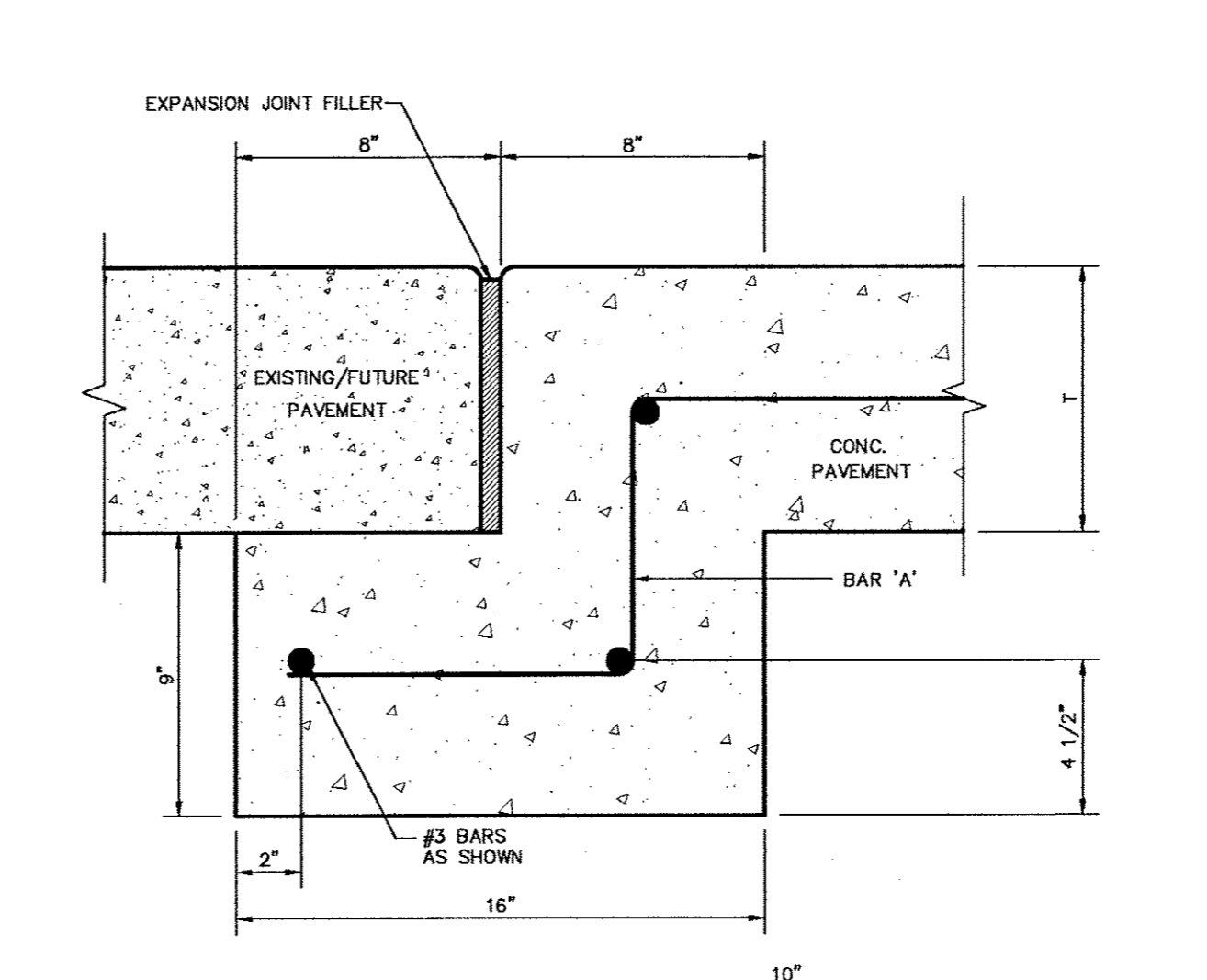
**Addison!**  
PUBLIC WORKS DEPARTMENT

PAVING  
GENERAL NOTES

STANDARD CONSTRUCTION DETAILS  
PAVING

DATE: AUGUST, 2010    REV. DATE:    SHEET: SD-P01

STREET HEADER



- NOTES:  
1. PAVEMENT BARS TO BE BENT DOWN INTO HEADER.  
2. HEADER AND PAVEMENT TO BE MONOLITHIC.
- T=PAVEMENT THICKNESS

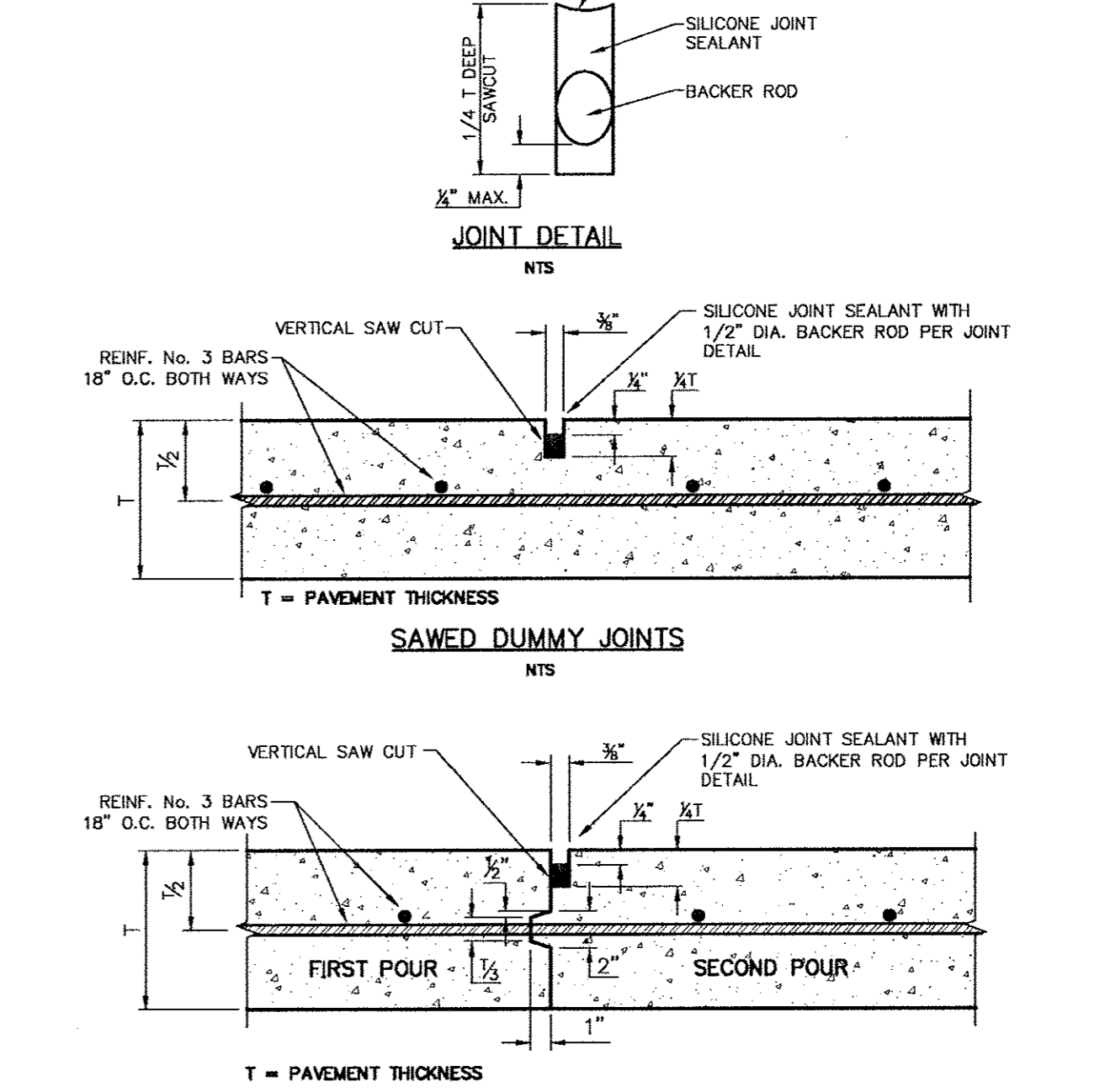
**Addison!**  
PUBLIC WORKS DEPARTMENT

STREET HEADER

STANDARD CONSTRUCTION DETAILS  
PAVING

DATE: AUGUST, 2010    REV. DATE:    SHEET: SD-P15

CONSTRUCTION JOINTS FOR PAVEMENT



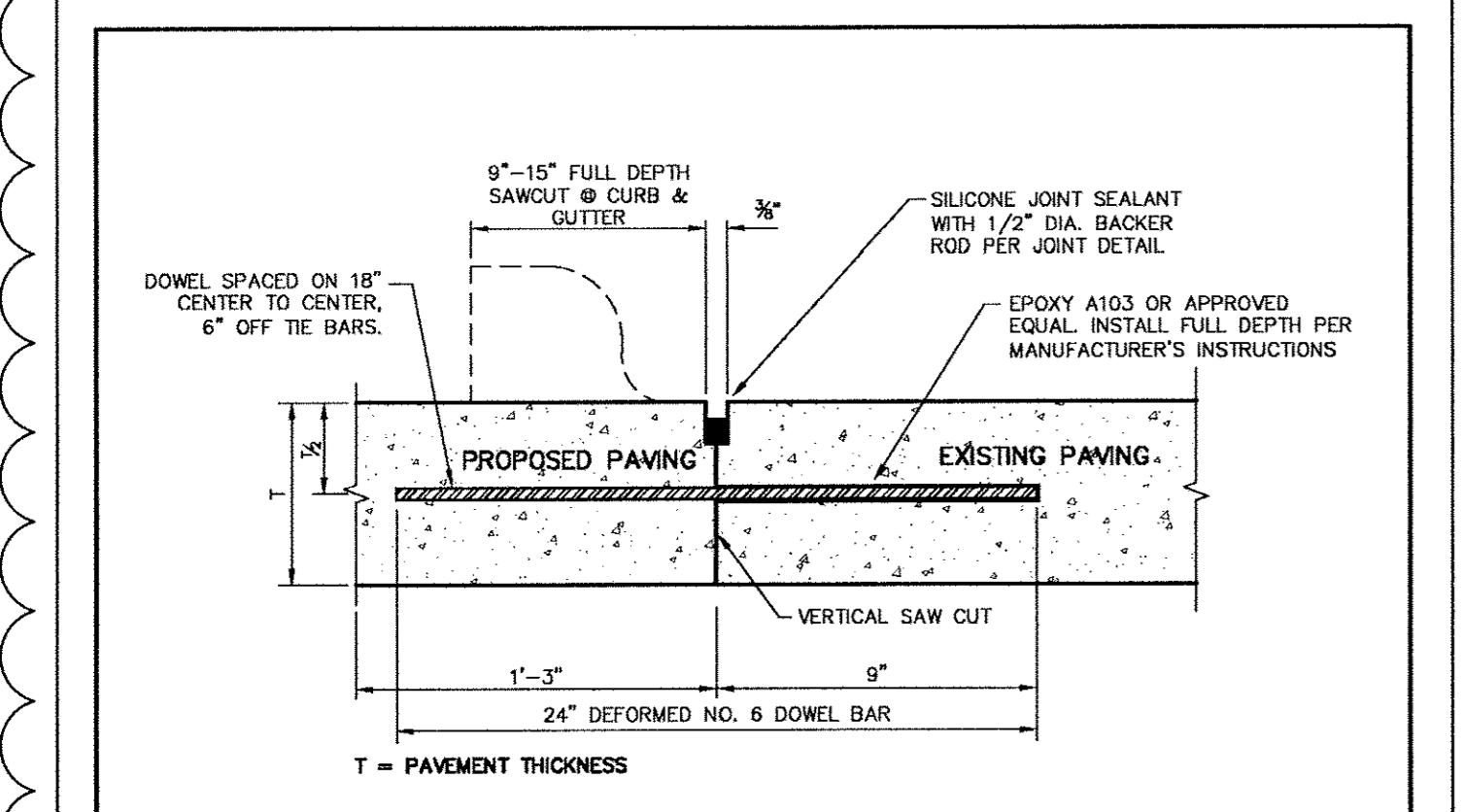
- NOTE: CONTRACTOR SHALL PROTECT KEYWAY PRIOR TO SECOND POUR. IF LONGITUDINAL KEYWAY IS DAMAGED, CONTRACTOR SHALL REPAIR WITH THE USE OF LONGITUDINAL BUTT JOINT, DRILL AND GROUT DOWELS INTO FIRST POUR.

**Addison!**  
PUBLIC WORKS DEPARTMENT

JOINT DETAILS

STANDARD CONSTRUCTION DETAILS  
PAVING

DATE: AUGUST, 2010    REV. DATE:    SHEET: SD-P18



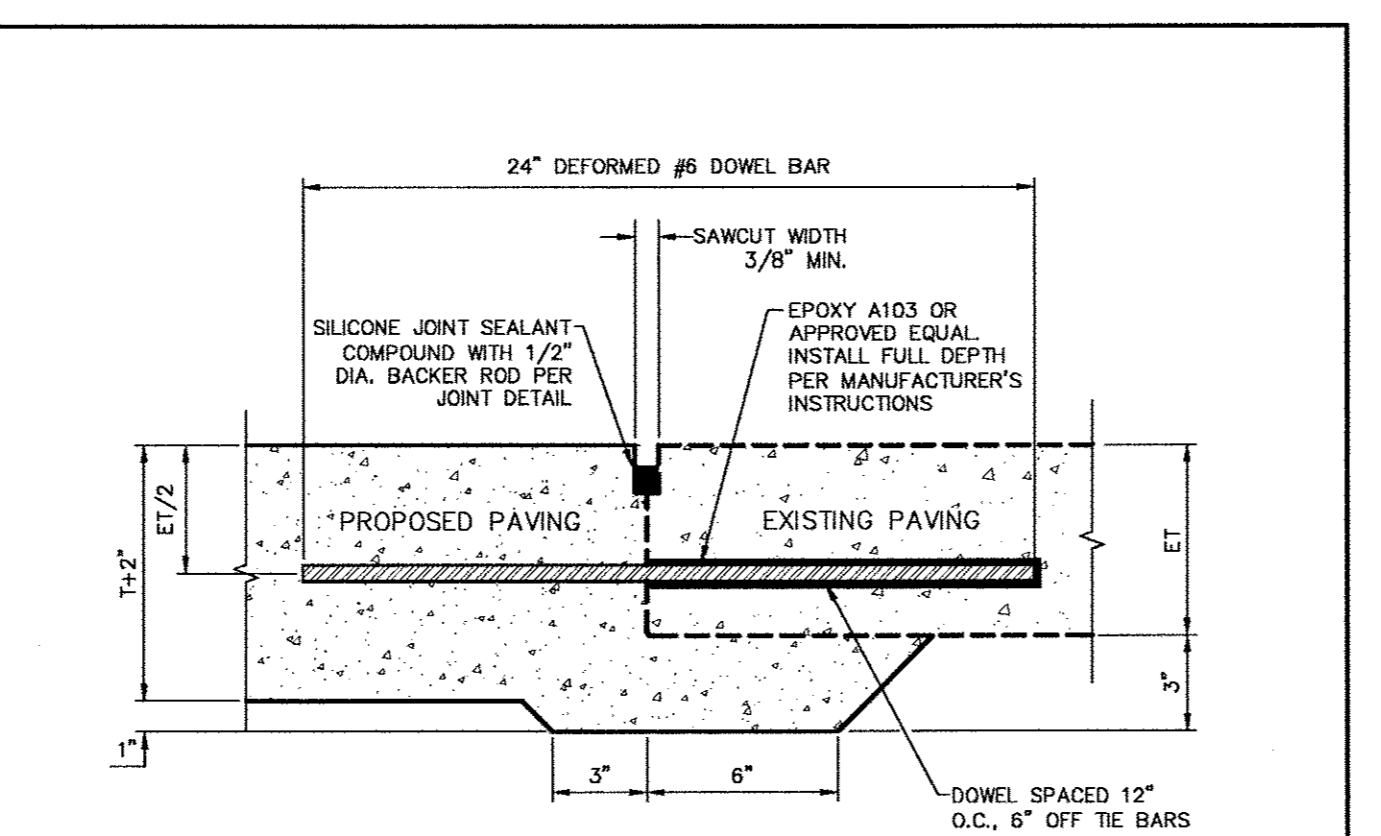
- NOTES:  
1. NO. 5 DEFORMED BAR MAY BE USED IN 6 INCH PAVEMENT.  
2. LONGITUDINAL BUTT CONSTRUCTION MAY BE UTILIZED IN PLACE OF LONGITUDINAL HINGED (KEYWAY) JOINT AT CONTRACTORS OPTION.  
3. DOWEL BARS SHALL BE DRILLED INTO PAVEMENT HORIZONTALLY BY USE OF A MECHANICAL RIG.  
4. DRILLING BY HAND IS NOT ACCEPTABLE. PUSHING DOWEL BARS INTO GREEN CONCRETE IS NOT ACCEPTABLE.

**Addison!**  
PUBLIC WORKS DEPARTMENT

LONGITUDINAL BUTT JOINT

STANDARD CONSTRUCTION DETAILS  
PAVING

DATE: AUGUST, 2010    REV. DATE:    SHEET: SD-P19



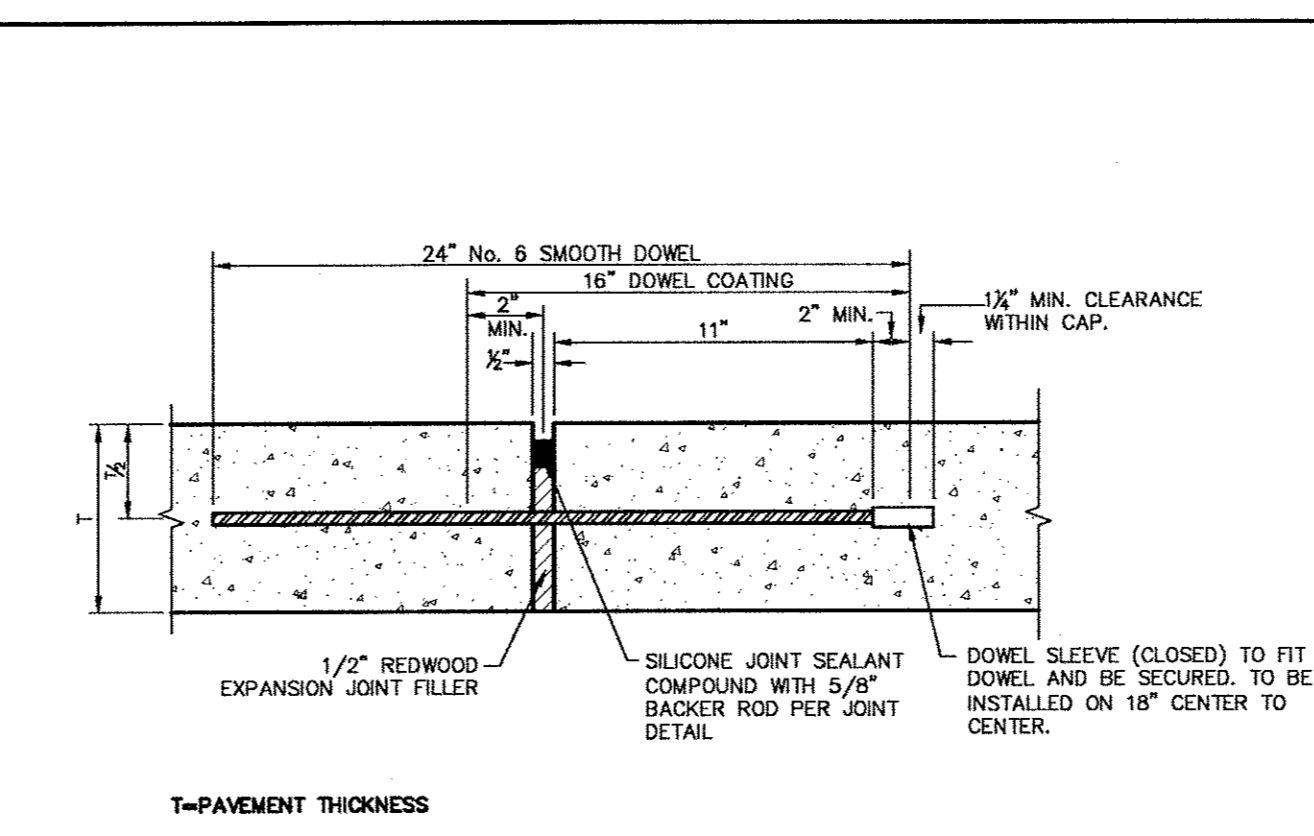
- NOTE:  
1. NO. 5 DEFORMED DOWEL BAR MAY BE USED IN 6 INCH PAVEMENT.  
2. DOWEL BARS SHALL BE DRILLED INTO PAVEMENT HORIZONTALLY BY USE OF A MECHANICAL RIG.  
3. DRILLING BY HAND IS NOT ACCEPTABLE. PUSHING DOWEL BARS INTO GREEN CONCRETE IS NOT ACCEPTABLE.
- T=PROPOSED PAVEMENT THICKNESS  
ET=EXISTING PAVEMENT THICKNESS

**Addison!**  
PUBLIC WORKS DEPARTMENT

PAVEMENT REPAIR HEADER

STANDARD CONSTRUCTION DETAILS  
PAVING

DATE: AUGUST, 2010    REV. DATE:    SHEET: SD-P16



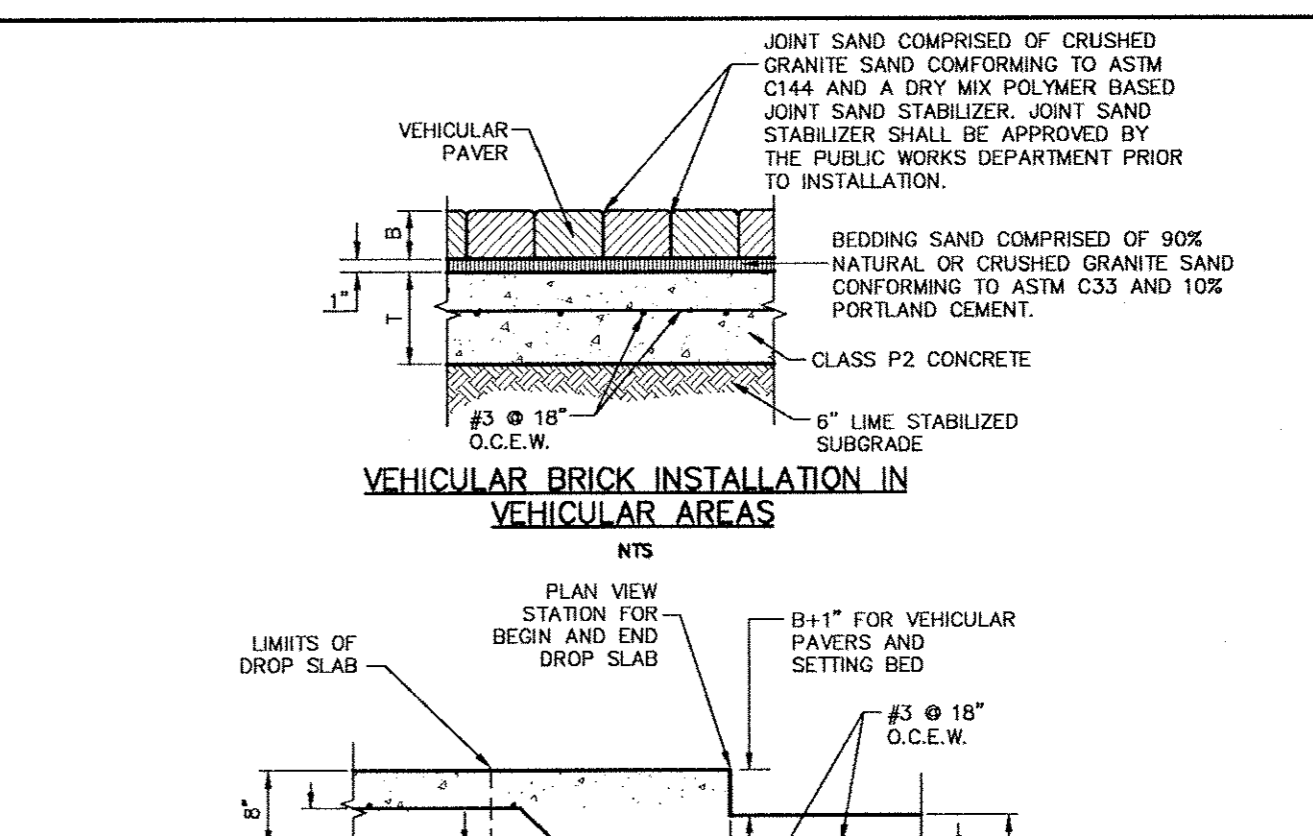
- NOTES:  
1. DOWELS AND REINFORCING BARS SHALL BE SUPPORTED BY AN APPROVED DEVICE AND MUST BE TIED OR CHAINED ON EACH SIDE.  
2. DOWELS MUST BE PERPENDICULAR TO FACE OF CONCRETE.  
3. NO. 5 SMOOTH DOWEL BARS MAY BE USED IN 6" PAVEMENT.  
4. TRANSVERSE EXPANSION JOINTS SHALL HAVE A MAXIMUM SPACING OF 600 FT.  
5. TRANSVERSE EXPANSION JOINTS SHALL BE LOCATED AT INTERSECTIONS.

**Addison!**  
PUBLIC WORKS DEPARTMENT

TRANSVERSE EXPANSION JOINT

STANDARD CONSTRUCTION DETAILS  
PAVING

DATE: AUGUST, 2010    REV. DATE:    SHEET: SD-P20



- NOTES:  
1. VEHICULAR PAVERS SHALL BE HEAVY PAVING BRICK MEETING ASTM C1272, TYPE R, APPLICATION AND BE APPROVED BY THE PUBLIC WORKS DEPT.  
2. PROVIDE BRICK WITHOUT FROGS OR CORES, IN SURFACES EXPOSED TO VIEW IN COMPLETED WORK.
- T=PAVEMENT THICKNESS  
B=BRICK PAVEMENT THICKNESS

**Addison!**  
PUBLIC WORKS DEPARTMENT

VEHICULAR BRICK INSTALLATION IN VEHICULAR AREAS

STANDARD CONSTRUCTION DETAILS  
PAVING

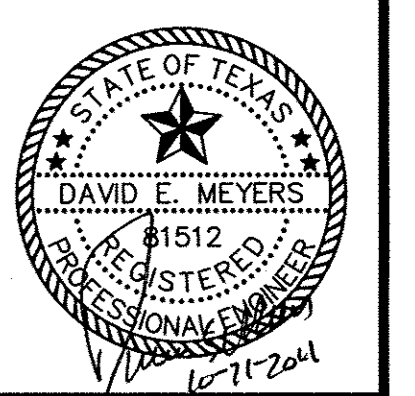
DATE: AUGUST, 2010    REV. DATE:    SHEET: SD-P21

Kimley-Horn  
and Associates, Inc.

7700 West Central Expressway, Suite 600  
Dallas, TX 75248-9818 972-770-8000  
Fax: 972-770-9888

DATE: OCTOBER 11, 2011  
DESIGN: KHA  
DRAWN: KHA  
CHECKED: KHA  
KHA NO.: 064362003  
CITY NO.:

REVISION  
1  
REVISED TOWN DETAILS  
Date: 8/26/11

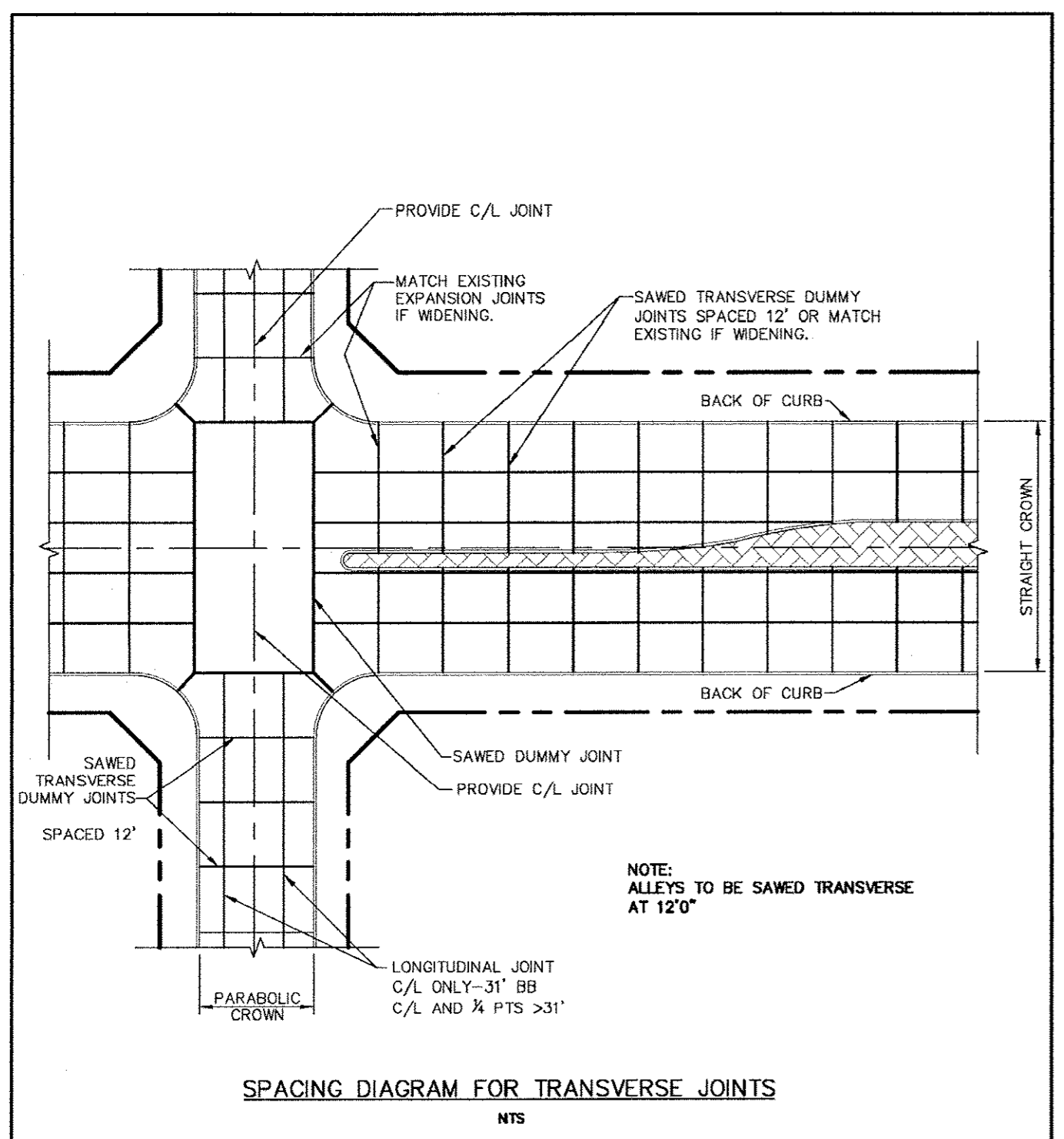


Keller Springs Lofts  
Loft Apartments in Addison  
Town of Addison, Texas

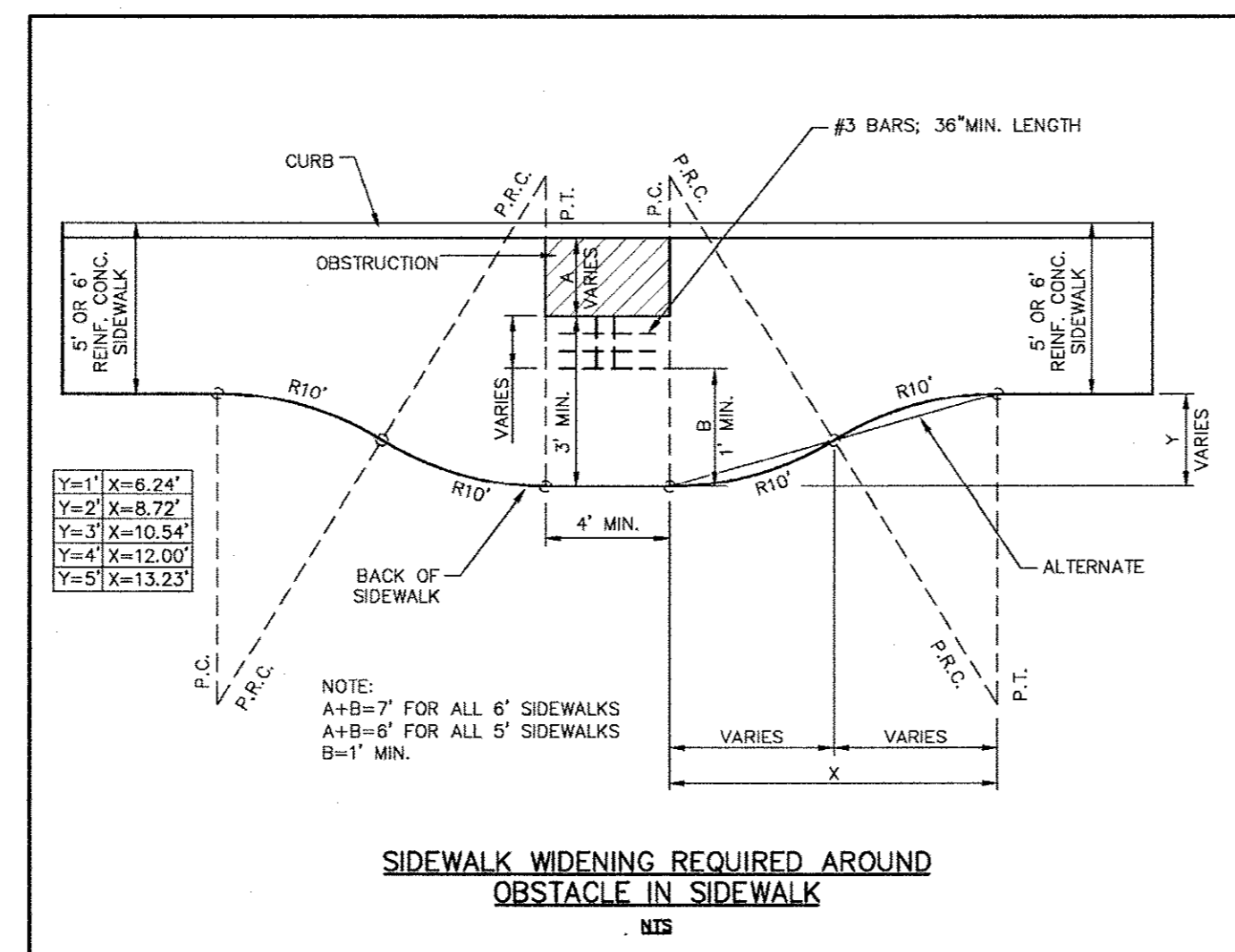
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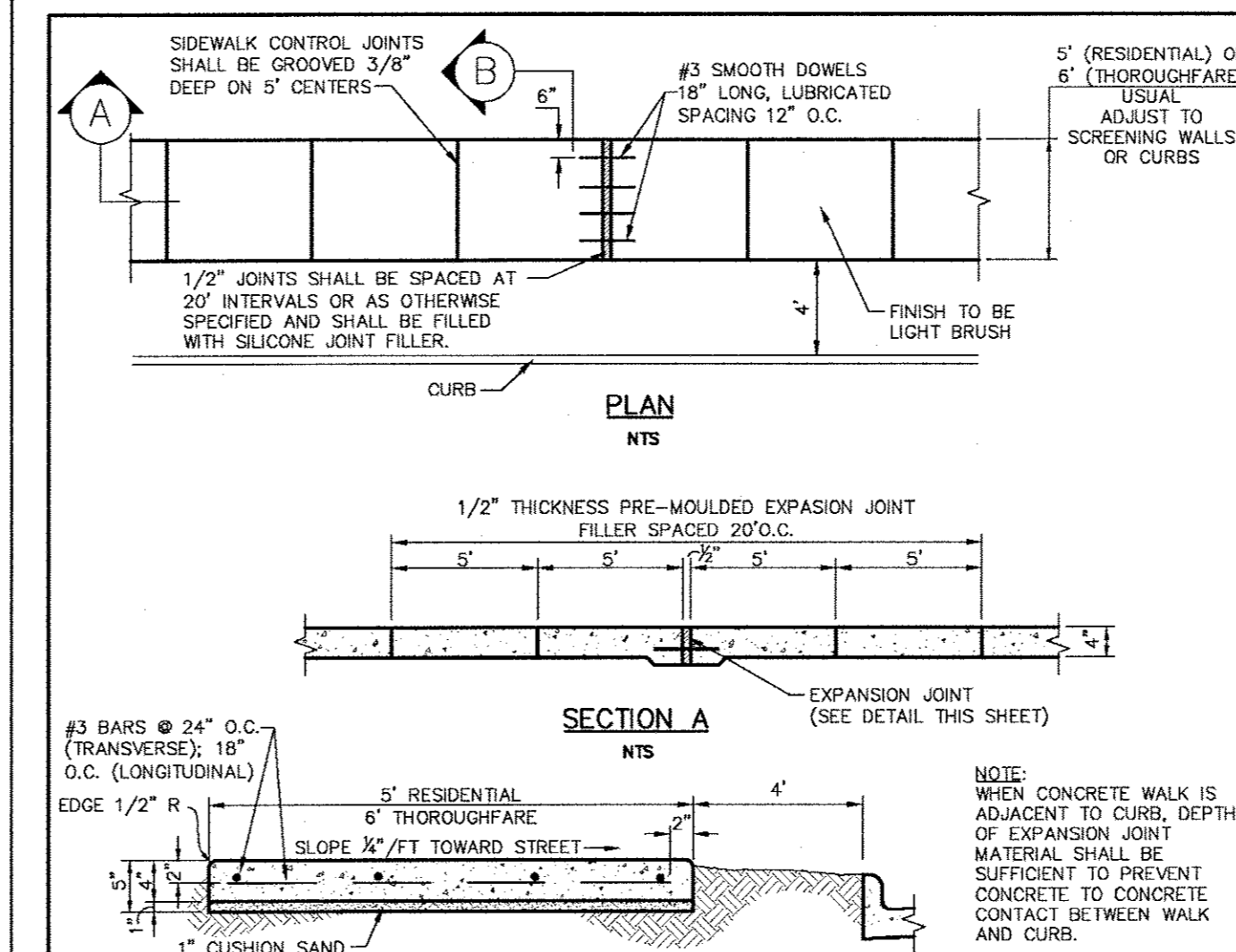
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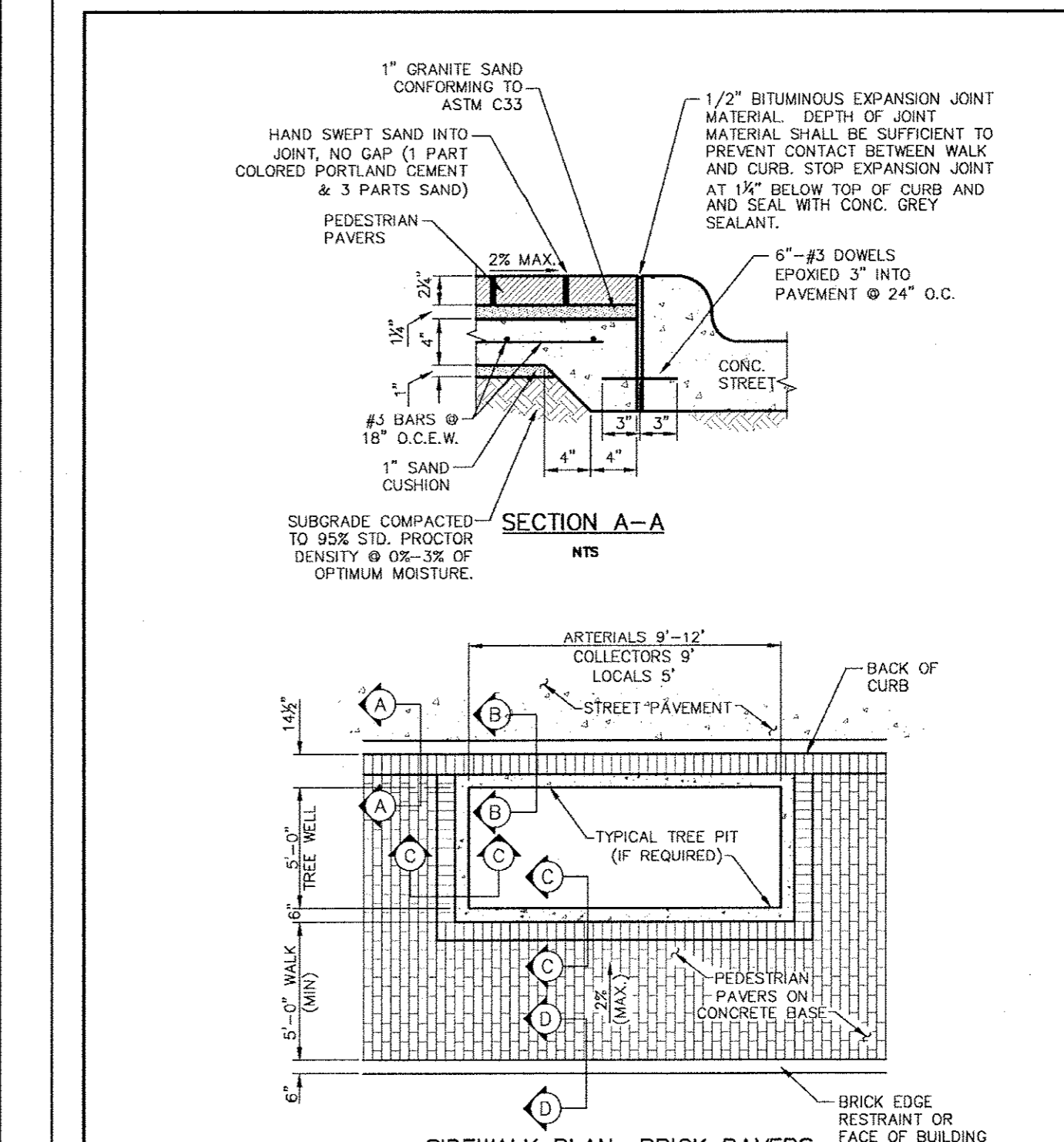
 PUBLIC WORKS DEPARTMENT	<b>SPACING DIAGRAM FOR TRANSVERSE JOINTS</b>	STANDARD CONSTRUCTION DETAILS PAVING	
		DATE: AUGUST, 2010	SHEET: 30-P22



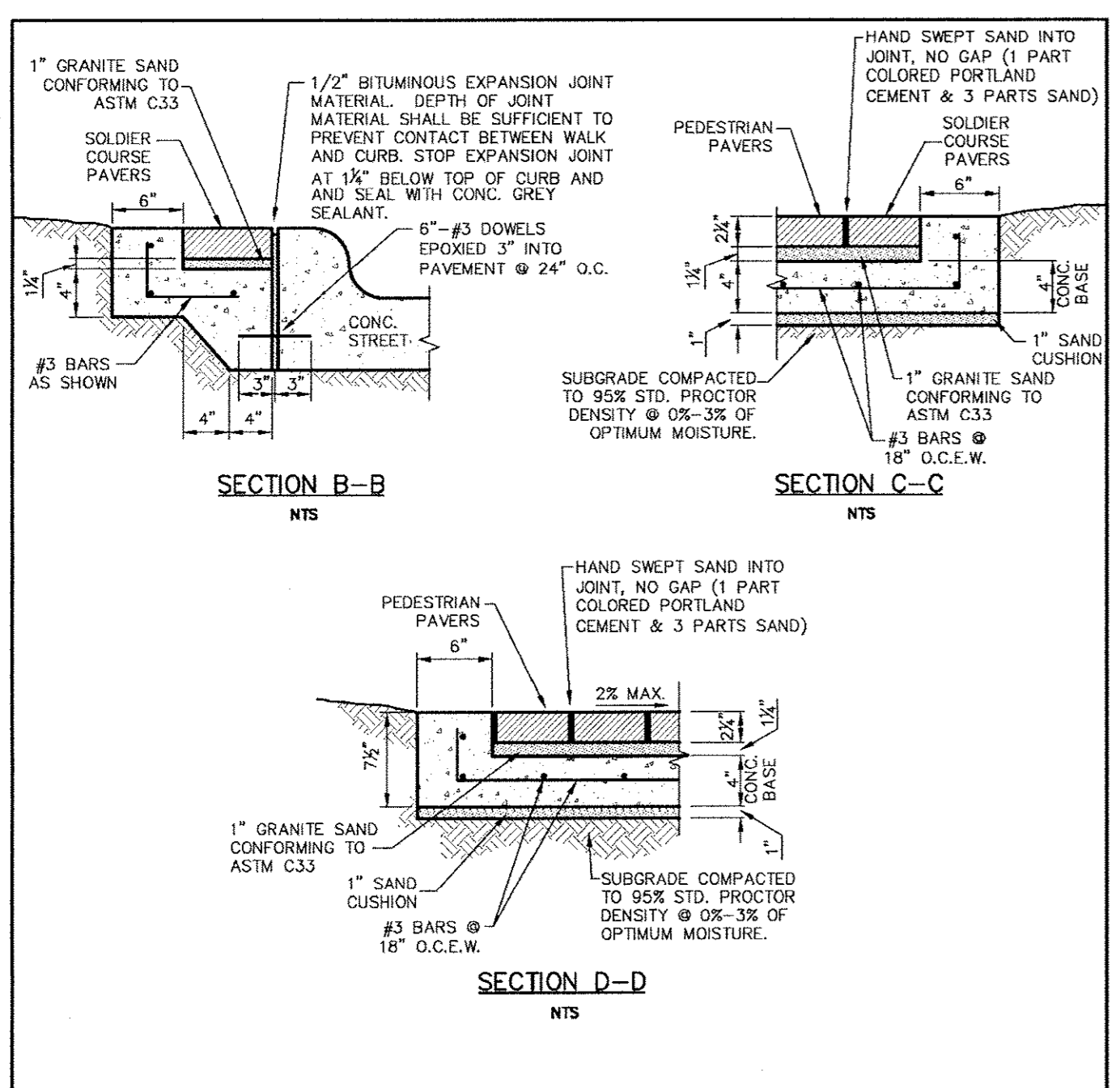
 PUBLIC WORKS DEPARTMENT	<b>SIDEWALK WIDENING REQUIRED AROUND OBSTACLE IN SIDEWALK &amp; JOINT DETAIL FOR SIDEWALKS ADJACENT TO CURB</b>	STANDARD CONSTRUCTION DETAILS PAVING	
		DATE: AUGUST, 2010	SHEET: 30-P23



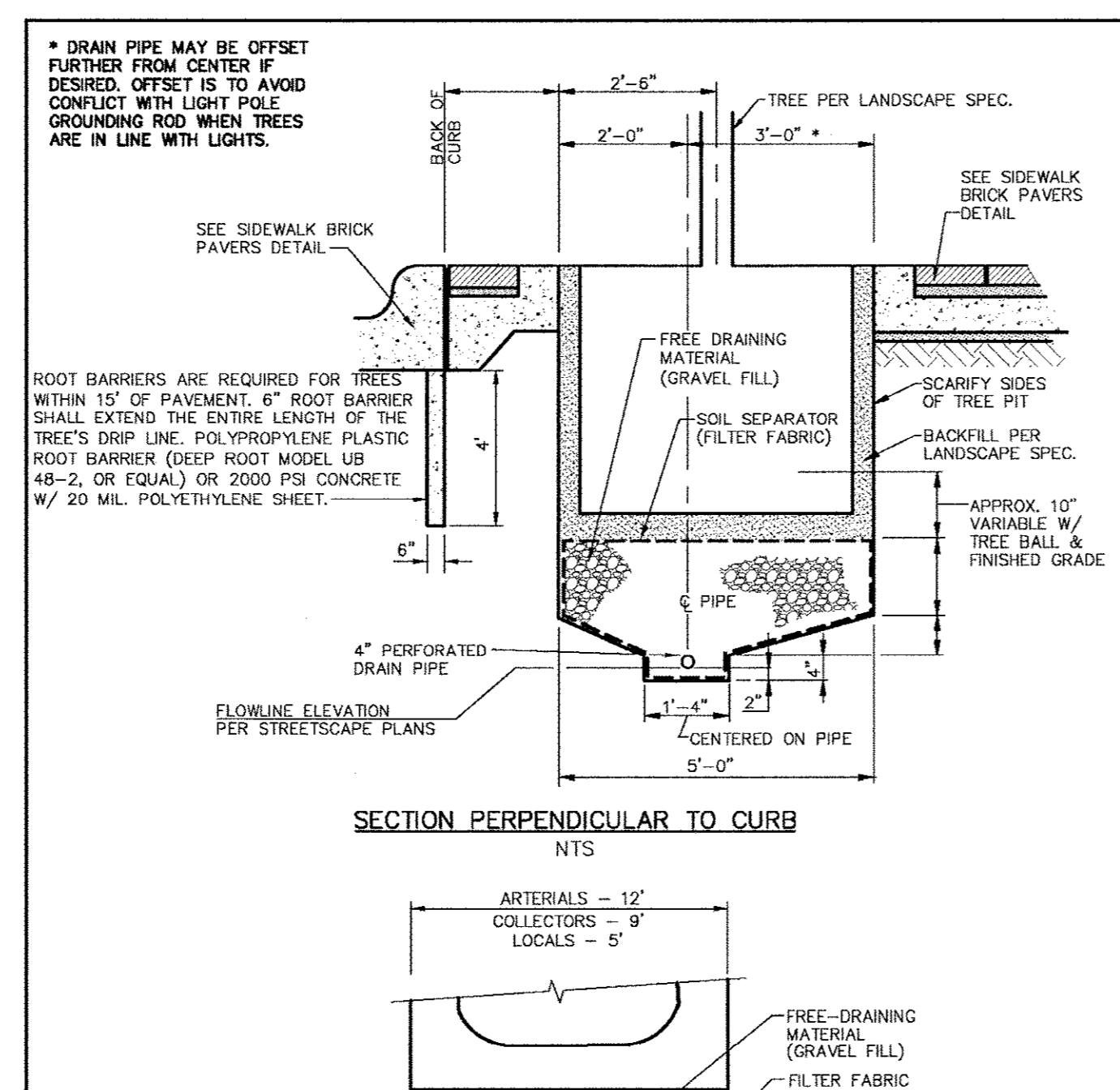
 PUBLIC WORKS DEPARTMENT	<b>CONCRETE SIDEWALK</b>	STANDARD CONSTRUCTION DETAILS PAVING	
		DATE: AUGUST, 2010	SHEET: 30-P26



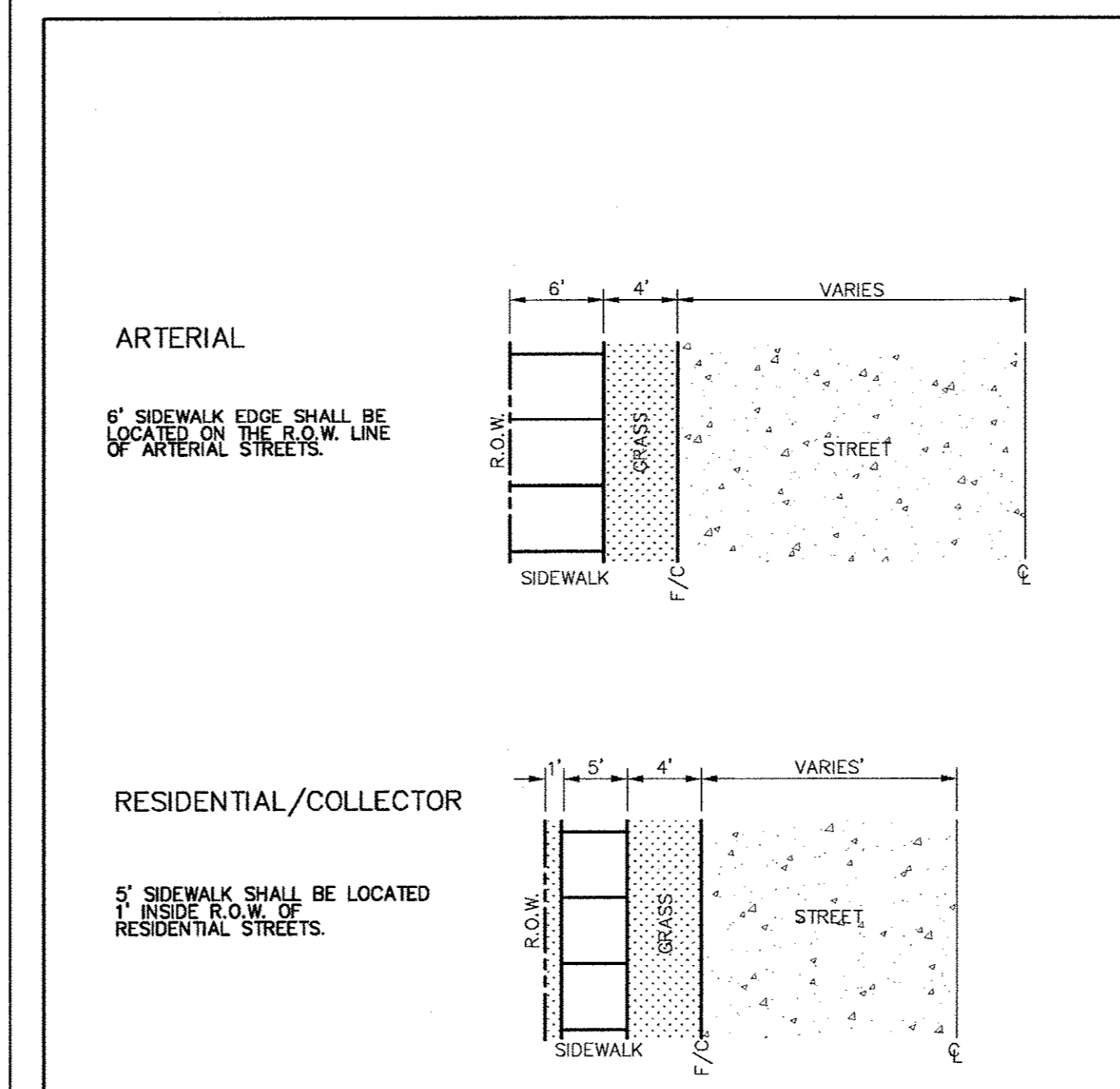
 PUBLIC WORKS DEPARTMENT	<b>SIDEWALK BRICK PAVERS</b>	STANDARD CONSTRUCTION DETAILS PAVING	
		DATE: AUGUST, 2010	SHEET: 30-P28



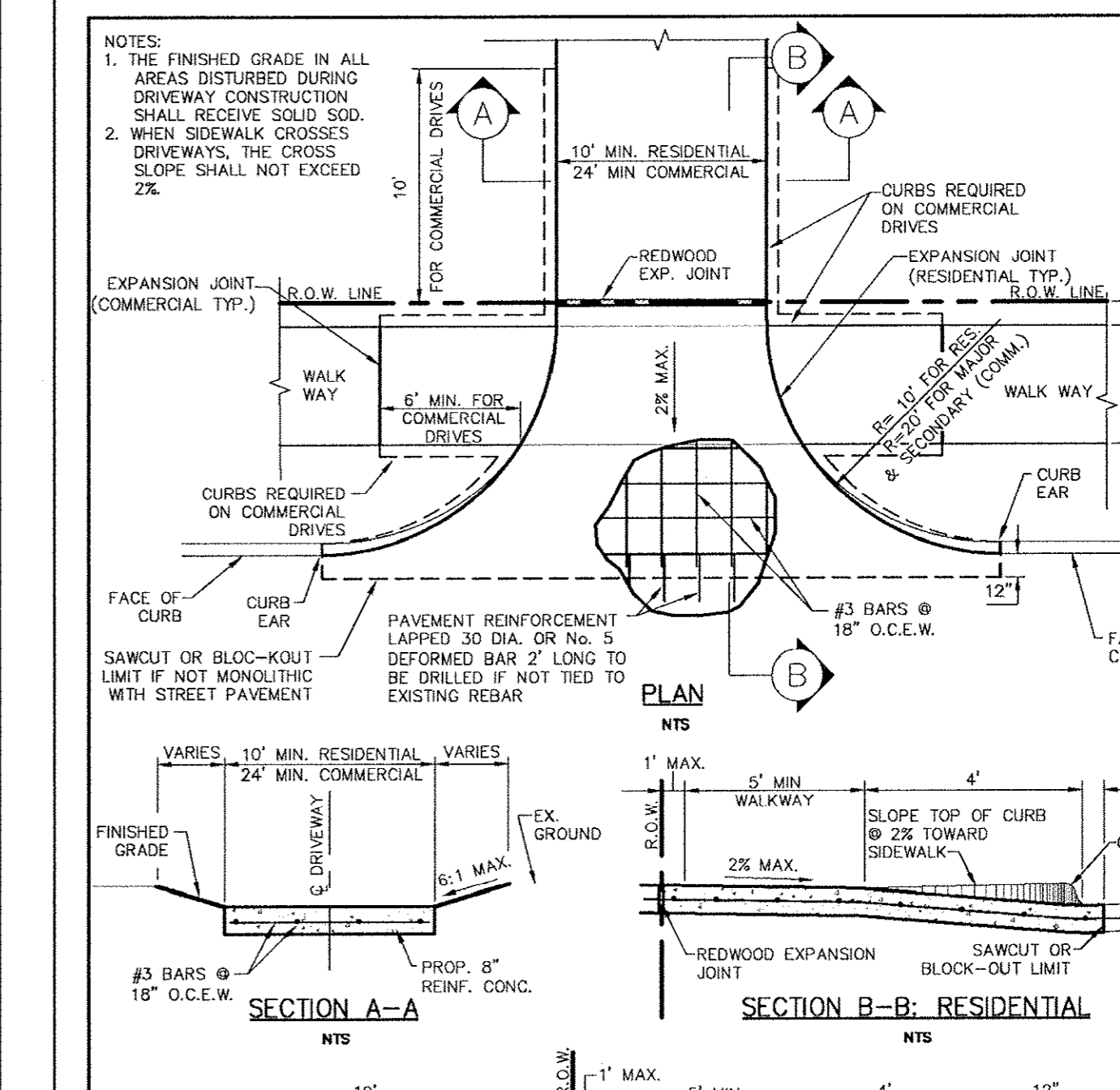
 PUBLIC WORKS DEPARTMENT	<b>SIDEWALK BRICK PAVERS CONTINUED</b>	STANDARD CONSTRUCTION DETAILS PAVING	
		DATE: AUGUST, 2010	SHEET: 30-P29



 PUBLIC WORKS DEPARTMENT	<b>SUBSURFACE DRAIN SYSTEM</b>	STANDARD CONSTRUCTION DETAILS PAVING	
		DATE: AUGUST, 2010	SHEET: 30-P30



 PUBLIC WORKS DEPARTMENT	<b>CONCRETE SIDEWALK CONTINUED</b>	STANDARD CONSTRUCTION DETAILS PAVING	
		DATE: AUGUST, 2010	SHEET: 30-P31



 PUBLIC WORKS DEPARTMENT	<b>DRIVEWAY RETURN DETAILS</b>	STANDARD CONSTRUCTION DETAILS PAVING	
		DATE: AUGUST, 2010	SHEET: 30-P32

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 Houston, TX 77008  
 Phone: 281-462-7000  
 Fax: 281-462-7001  
 Website: www.kimley-horn.com

STATE OF TEXAS  
 DAVID L. MEYERS  
 81512  
 REGISTERED PROFESSIONAL ENGINEER  
 10-11-2011

**Keller Springs Lofts**  
**Loft Apartments in Addison**  
 Town of Addison, Texas

**PAVING DETAILS**

DATE: OCTOBER 11, 2011	DESIGN: KHA	CITY NO.:
DRAWN: KHA	CHECKED: KHA	
	KHA NO.: 064362003	

**GENERAL NOTES FOR PEDESTRIAN FACILITIES**

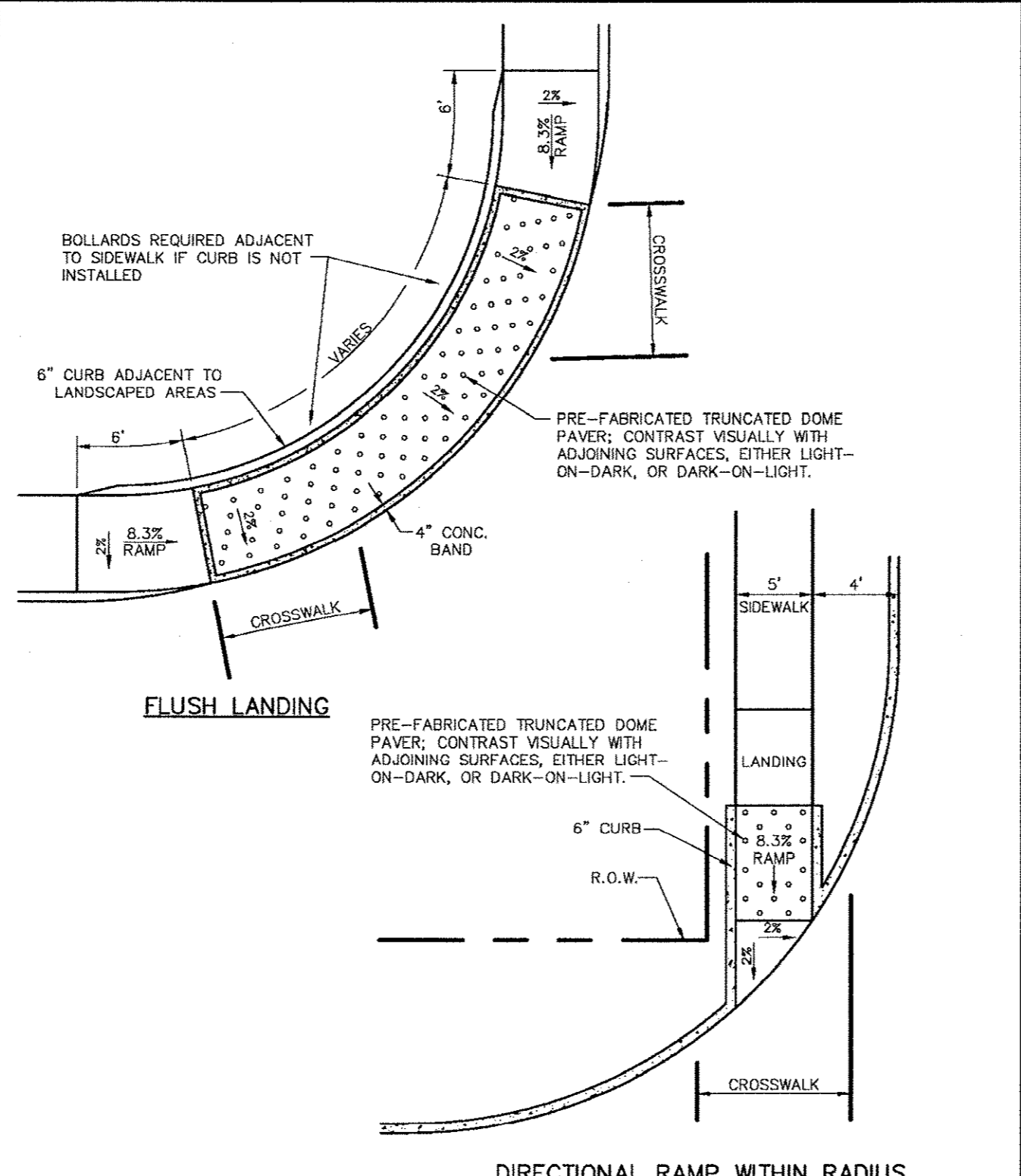
1. ALL SLOPES ARE MAXIMUM ALLOWABLE. THE LEAST POSSIBLE SLOPE THAT WILL STILL DRAIN PROPERLY SHOULD BE USED. ADJUST CURB RAMP LENGTH OR GRADE OF APPROACH SIDEWALKS AS DIRECTED.
2. LANDINGS SHALL BE 5'x5' MINIMUM WITH A MAXIMUM 2% SLOPE IN ANY DIRECTION. MANEUVERING SPACE AT THE BOTTOM OF CURB RAMP SHALL BE A MINIMUM OF 4'x4' WHOLLY CONTAINED WITHIN THE CROSSWALK AND WHOLLY OUTSIDE THE PARALLEL VEHICULAR TRAVEL PATH.
3. MAXIMUM ALLOWABLE CROSS SLOPE ON SIDEWALK AND CURB RAMP SURFACES IS 2%.
4. CURB RAMP WITH RETURNED CURBS MAY BE USED ONLY WHERE PEDESTRIANS WOULD NOT NORMALLY WALK ACROSS THE RAMP, EITHER BECAUSE THE ADJACENT SURFACE IS PLANTING OR OTHER NON-WALKING SURFACE OR BECAUSE THE SIDE APPROACH IS SUBSTANTIALLY OBSTRUCTED. OTHERWISE, PROVIDE FLARED SIDES.
5. ADDITIONAL INFORMATION ON CURB RAMP LOCATION, DESIGN, LIGHT REFLECTIVE VALUE AND TEXTURE MAY BE FOUND IN THE CURRENT EDITION OF THE TEXAS ACCESSIBILITY STANDARDS (TAS) AND 16 TAC §661.02.
6. CURB RAMP SHALL BE ALIGNED WITH THEORETICAL CROSSWALKS, OR AS DIRECTED BY THE TOWN ENGINEER.
7. HANDRAILS ARE NOT REQUIRED ON CURB RAMP. PROVIDE CURB RAMP WHEREVER ON ACCESSIBLE ROUTE CROSSES (PENETRATES) A CURB.
8. FLARE SLOPE SHALL NOT EXCEED 10% MEASURED ALONG CURB LINE.
9. BARRIER FREE RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT EDITION OF THE TEXAS ACCESSIBILITY STANDARDS (TAS).
10. ALL BARRIER FREE RAMPS MUST PASS AN INDEPENDENT INSPECTION. A LETTER OF COMPLIANCE ACCEPTANCE IS REQUIRED PRIOR TO FINAL ACCEPTANCE BY THE TOWN OF ADDISON.
11. STREETS ON STEEP GRADE WILL REQUIRE LONGER TRANSITION ON UPGRADE SIDE.
12. MAXIMUM SLOPE ON RAMP PORTION SHALL NOT EXCEED 1" PER FOOT AT ANY LOCATION. VERTICAL DISTANCE BETWEEN STREET AND RAMP SHALL NOT EXCEED 4".

**GENERAL NOTES FOR DETECTABLE WARNINGS**

1. CURB RAMP MUST CONTAIN A DETECTABLE WARNING SURFACE THAT CONSIST OF RAISED TRUNCATED DOMES COMPLYING WITH SECTION 4.29 OF THE TEXAS ACCESSIBILITY STANDARDS (TAS). THE SURFACE MUST CONTRAST VISUALLY WITH THE ADJOINING SURFACES, INCLUDING SIDE FLARES. FURNISH DARK RED COLORED DETECTABLE WARNING SURFACE ADJACENT TO UNCOLORED CONCRETE AND CREAM COLORED DETECTABLE WARNING SURFACE ADJACENT TO DARK RED COLORED BRICK PAVERS.
2. DETECTABLE WARNING SURFACES MUST BE SLIP RESISTANT AND NOT ALLOW WATER TO ACCUMULATE.
3. ALIGN TRUNCATED DOMES IN THE DIRECTION OF PEDESTRIAN TRAVEL WHEN ENTERING THE STREET.
4. DETECTABLE WARNING SURFACES SHALL BE A MINIMUM OF 24" IN DEPTH IN THE DIRECTION OF PEDESTRIAN TRAVEL AND EXTEND THE FULL WIDTH OF THE CURB RAMP OR LANDING WHERE THE PEDESTRIAN ACCESS ROUTE ENTERS THE STREET.
5. DETECTABLE WARNING SURFACES SHALL BE LOCATED SO THAT THE EDGE NEAREST THE CURB LINE IS A MINIMUM OF 6" AND A MAXIMUM OF 8" FROM THE EXTENSION OF THE FACE OF CURB AND SHALL BE AN INTEGRAL PART OF THE WALKING SURFACE. DETECTABLE WARNING SURFACES MAY BE CURBED ALONG THE CORNER RADIUS.

**GENERAL NOTES FOR DETECTABLE WARNING PAVER UNITS**

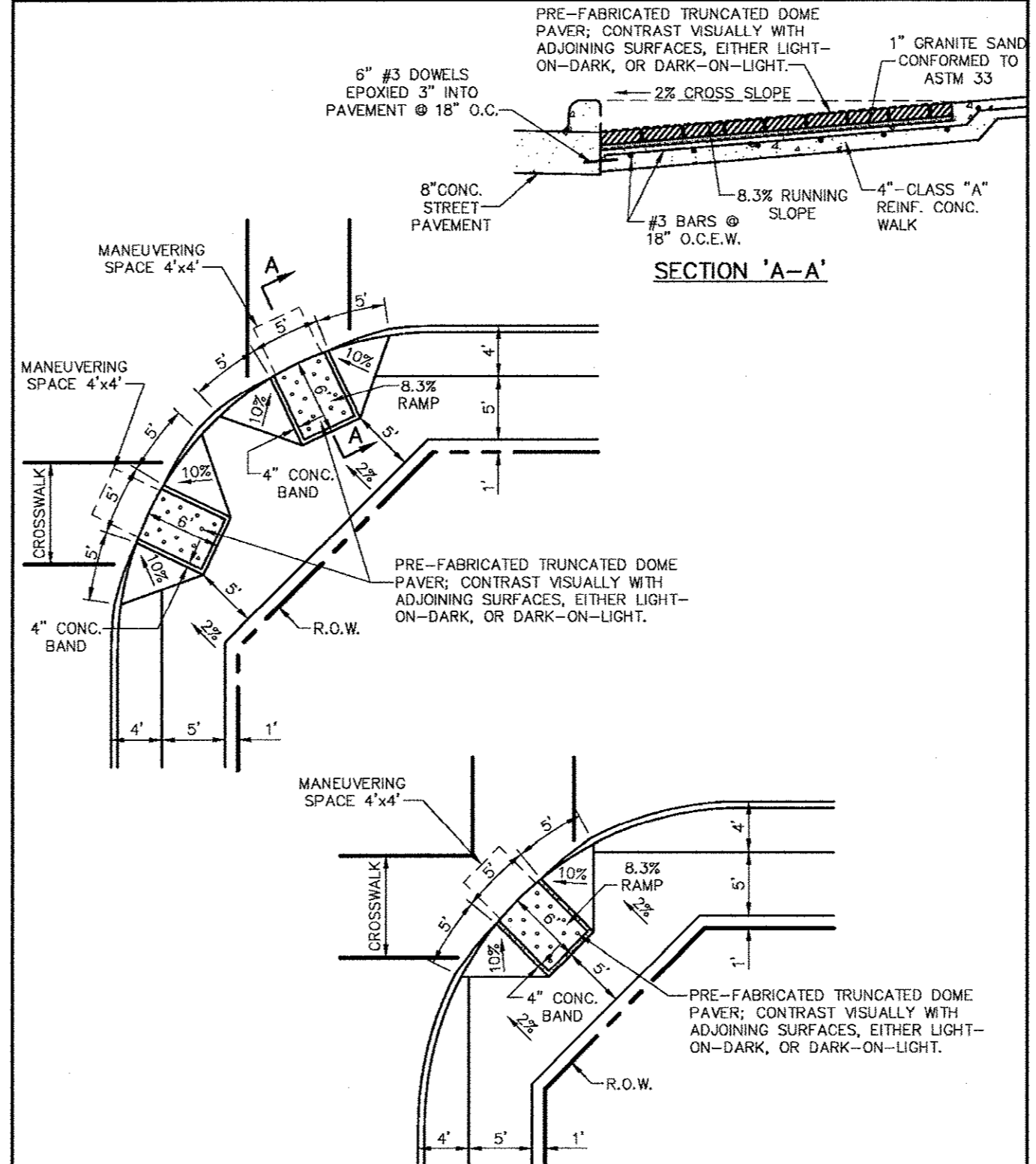
1. DETECTABLE WARNING PAVER UNITS SHALL MEET OR EXCEED ALL REQUIREMENTS OF ASTM C-936, C-933, AND BE LAID IN A TWO BY TWO UNIT BASKET WEAVE PATTERN OR AS DIRECTED.
2. LAY FULL-SIZE UNITS FIRST FOLLOWED BY CLOSURE UNITS CONSISTING OF AT LEAST 25 PERCENT OF A FULL UNIT. CUT DETECTABLE WARNING PAVER UNITS USING A POWER SAW.



**PEDESTRIAN RAMPS**

STANDARD CONSTRUCTION DETAILS PAVING

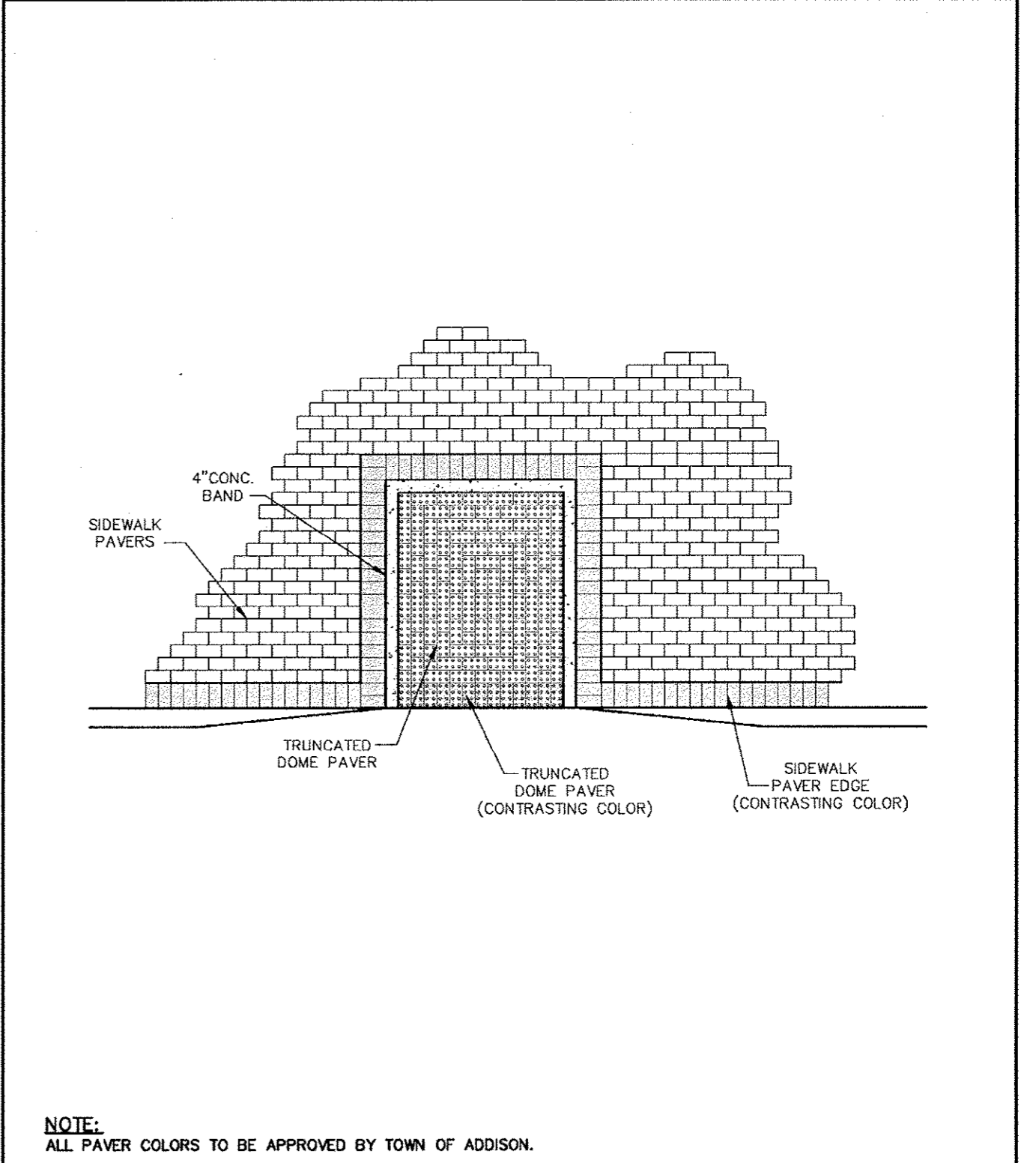
DATE: AUGUST, 2010 REV DATE: SHEET: SD-P38



**BARRIER FREE RAMP (RESIDENTIAL)**

STANDARD CONSTRUCTION DETAILS PAVING

DATE: AUGUST, 2010 REV DATE: SHEET: SD-P39



**TYPICAL PATTERN FOR PAVER SIDEWALK AND CURB RAMP**

STANDARD CONSTRUCTION DETAILS PAVING

DATE: AUGUST, 2010 REV DATE: SHEET: SD-P40

**PEDESTRIAN FACILITIES GENERAL NOTES**

STANDARD CONSTRUCTION DETAILS PAVING

DATE: AUGUST, 2010 REV DATE: SHEET: SD-P37

**PEDESTRIAN RAMPS**

STANDARD CONSTRUCTION DETAILS PAVING

DATE: AUGUST, 2010 REV DATE: SHEET: SD-P38

**BARRIER FREE RAMP (RESIDENTIAL)**

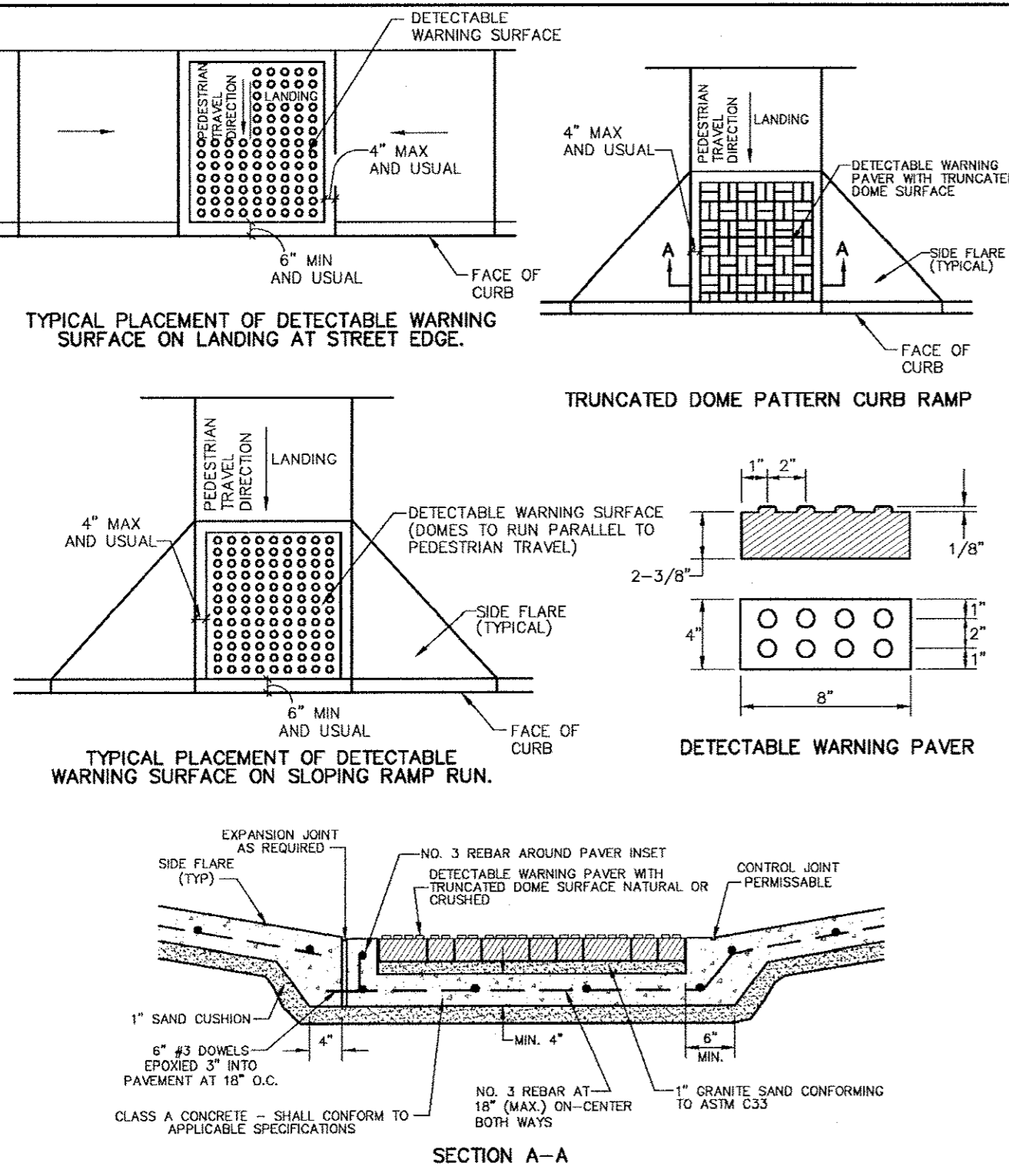
STANDARD CONSTRUCTION DETAILS PAVING

DATE: AUGUST, 2010 REV DATE: SHEET: SD-P39

**TYPICAL PATTERN FOR PAVER SIDEWALK AND CURB RAMP**

STANDARD CONSTRUCTION DETAILS PAVING

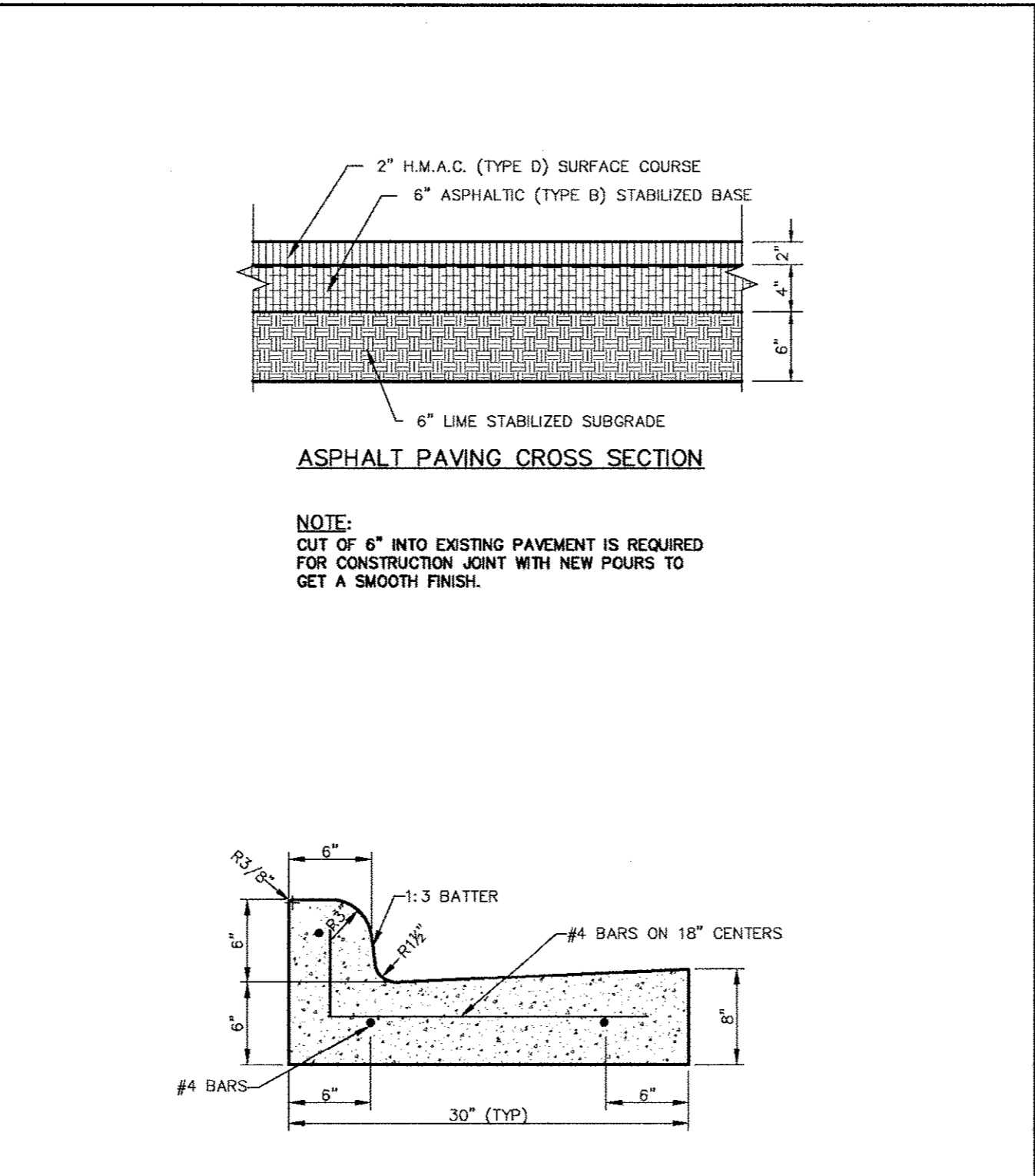
DATE: AUGUST, 2010 REV DATE: SHEET: SD-P40



**DETECTABLE WARNING PAVER (OPTION)**

STANDARD CONSTRUCTION DETAILS PAVING

DATE: AUGUST, 2010 REV DATE: SHEET: SD-P41



**CURB AND GUTTER & ASPHALT PAVING CROSS SECTION**

STANDARD CONSTRUCTION DETAILS PAVING

DATE: AUGUST, 2010 REV DATE: SHEET: SD-P42

**Kimley-Horn and Associates, Inc.**

1700 WEST 13TH AVE., SUITE 200  
DALLAS, TX 75205-8888  
TEL: 972-770-8800  
FAX: 972-770-8800

Revision: 1  
Date: 8/26/11

STATE OF TEXAS  
DAVID E. MEYERS  
REGISTERED PROFESSIONAL ENGINEER  
NO. 01512  
EXPIRES 08/31/2011

**Keller Springs Lofts**  
**Loft Apartments in Addison**  
Town of Addison, Texas

**PAVING DETAILS**

DATE: OCTOBER 11, 2011  
DESIGN: KHA  
DRAWN: KHA  
CHECKED: KHA  
KHA NO.: 064-362003  
CITY NO.:

SHEET  
**C12b**

**STORM SEWER — GENERAL NOTES:**

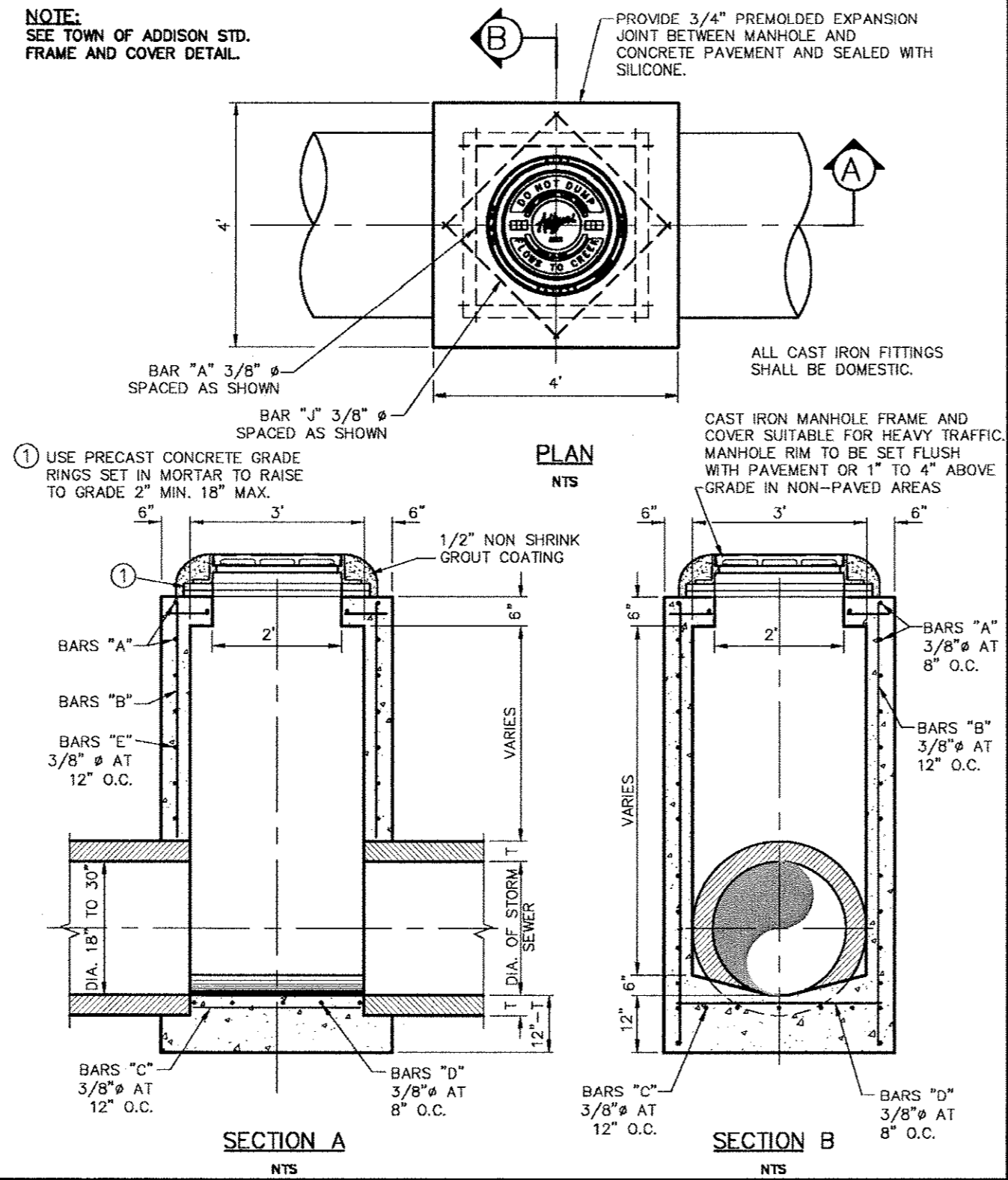
1. ALL CONCRETE DRAINAGE STRUCTURES SHALL BE CLASS C CONCRETE MINIMUM.
2. ALL CRUSHED STONE SHALL BE 3/4", PASSING #4 SIEVE (GRADE 4).
3. ALL FIELD JOINTS WILL BE APPROVED BY THE TOWN ENGINEER IF NECESSARY. FIELD JOINTS SHALL BE WIPED ON THE INSIDE AND OUTSIDE TO PROVIDE FOR SMOOTH FLOW OF WATER.
4. RAMNECK COMPOUND OR APPROVED EQUAL SHALL BE USED FOR JOINT SEALS.
5. ALL STORM SEWER PIPE SHALL BE CAMERA INSPECTED AFTER THE INSTALLATION OF ALL PAVING AND UTILITIES AND PRIOR TO FINAL ACCEPTANCE OF THE PROJECT.

*Addison!*  
PUBLIC WORKS DEPARTMENT

STORM SEWER  
GENERAL NOTES

STANDARD CONSTRUCTION DETAILS STORM DRAINAGE		
DATE:	REV DATE:	SHEET:
AUGUST, 2010	-	SD-001

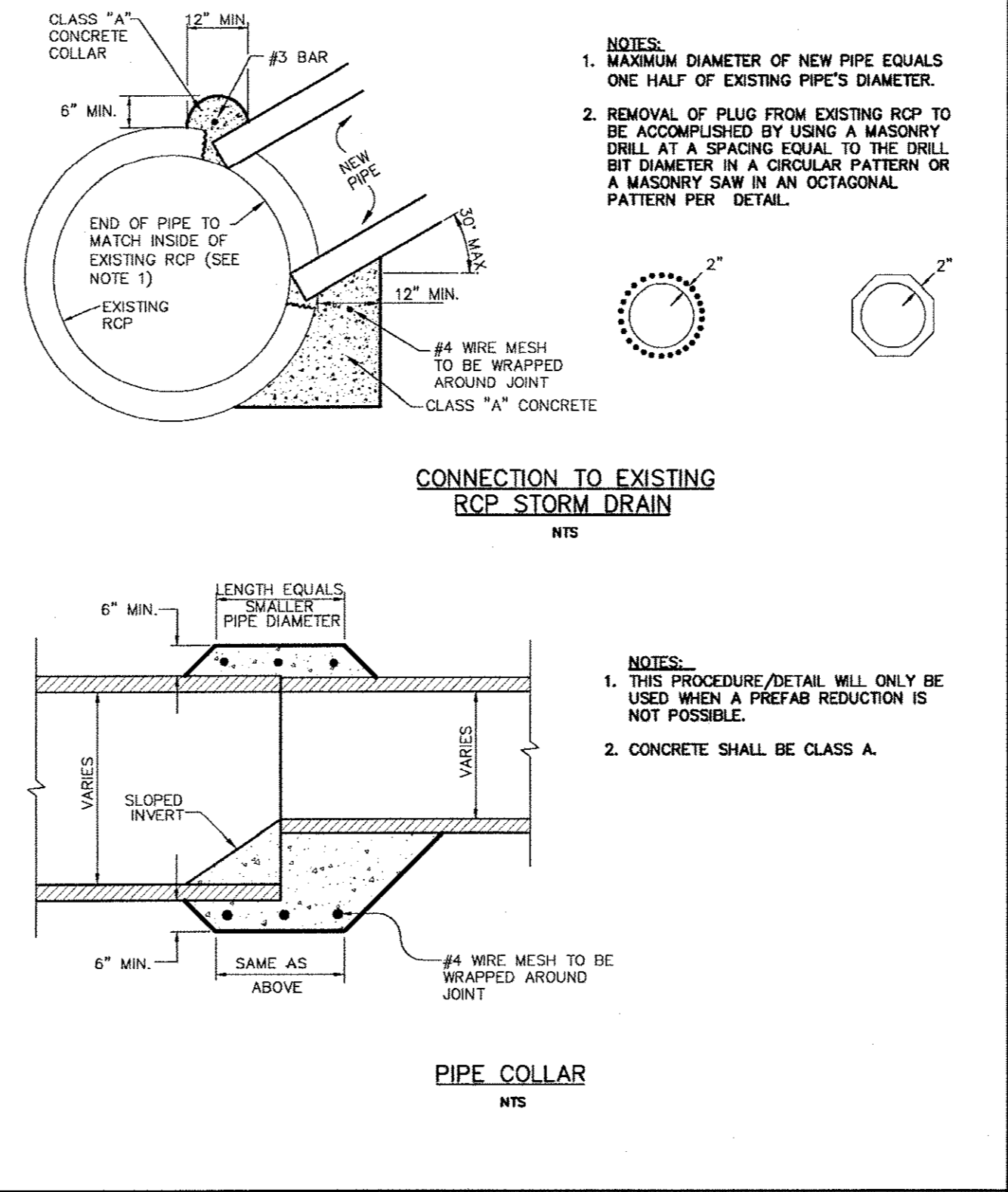
NOTE:  
SEE TOWN OF ADDISON STD.  
FRAME AND COVER DETAIL.



*Addison!*  
PUBLIC WORKS DEPARTMENT

TYPE "A" STORM SEWER  
MANHOLE  
(FOR 18" TO 30" RCP)

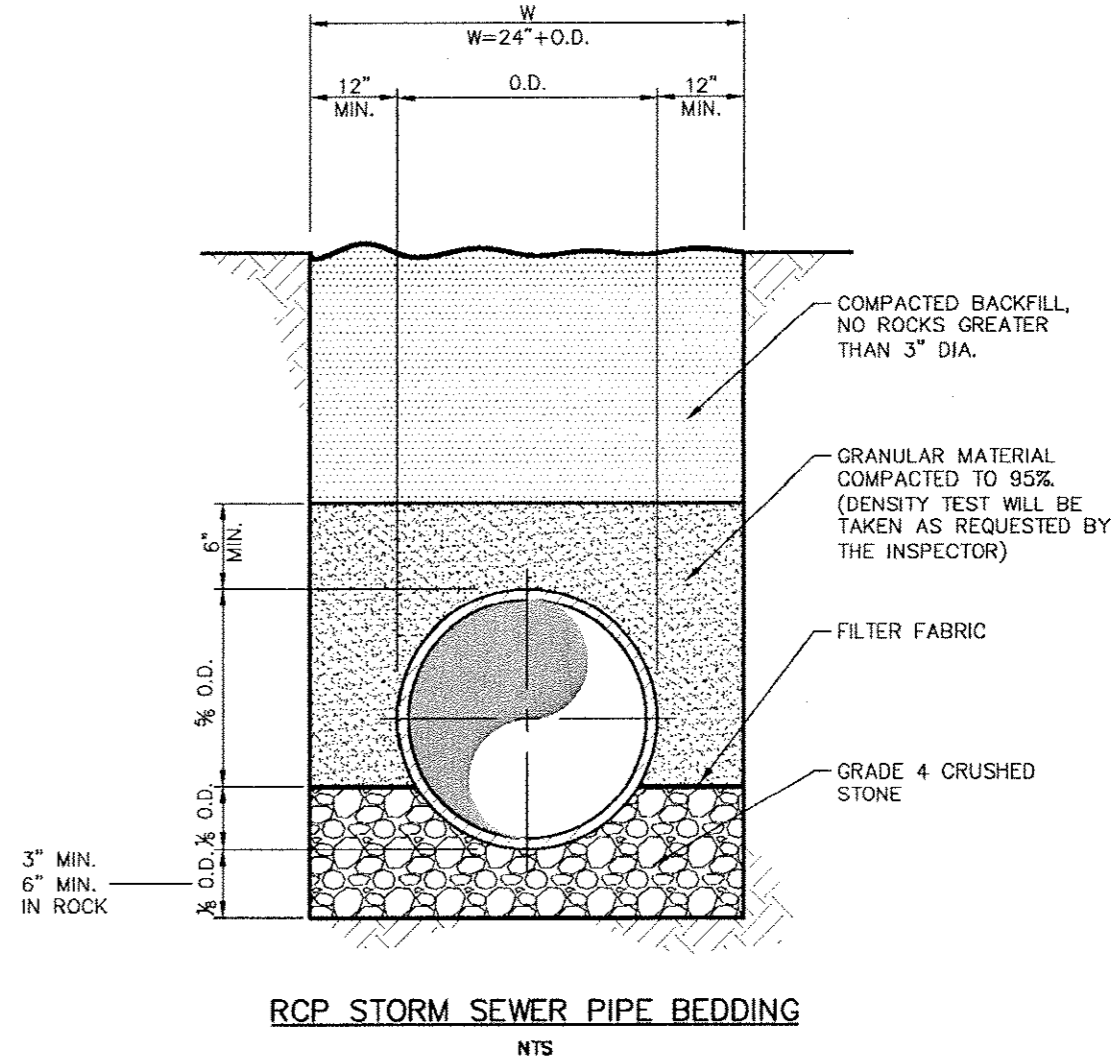
STANDARD CONSTRUCTION DETAILS STORM DRAINAGE		
DATE:	REV DATE:	SHEET:
AUGUST, 2010	-	SD-005



*Addison!*  
PUBLIC WORKS DEPARTMENT

CONNECTION TO EXISTING  
RCP STORM DRAIN  
PIPE COLLAR

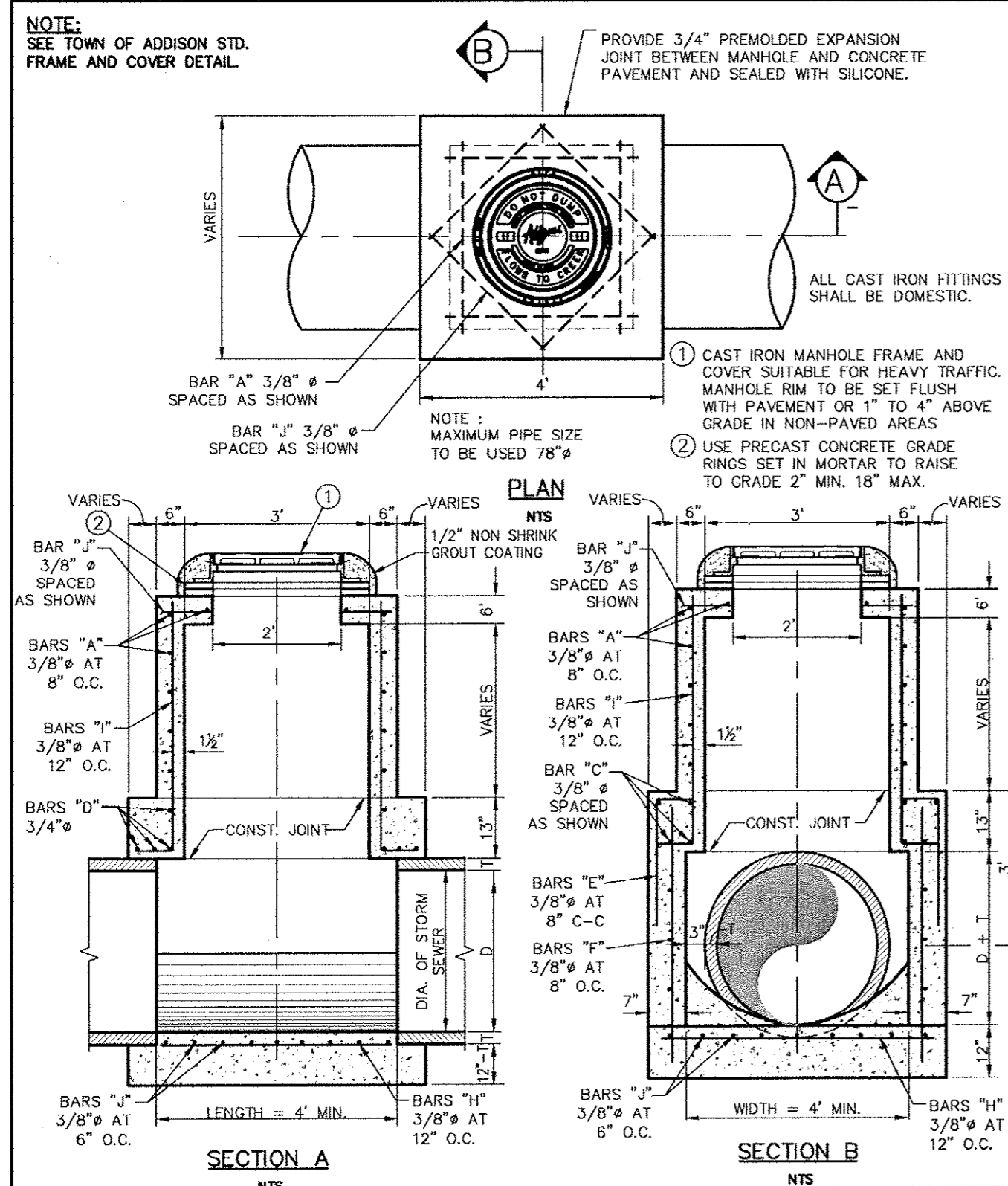
STANDARD CONSTRUCTION DETAILS STORM DRAINAGE		
DATE:	REV DATE:	SHEET:
AUGUST, 2010	-	SD-005



*Addison!*  
PUBLIC WORKS DEPARTMENT

RCP STORM SEWER  
PIPE BEDDING

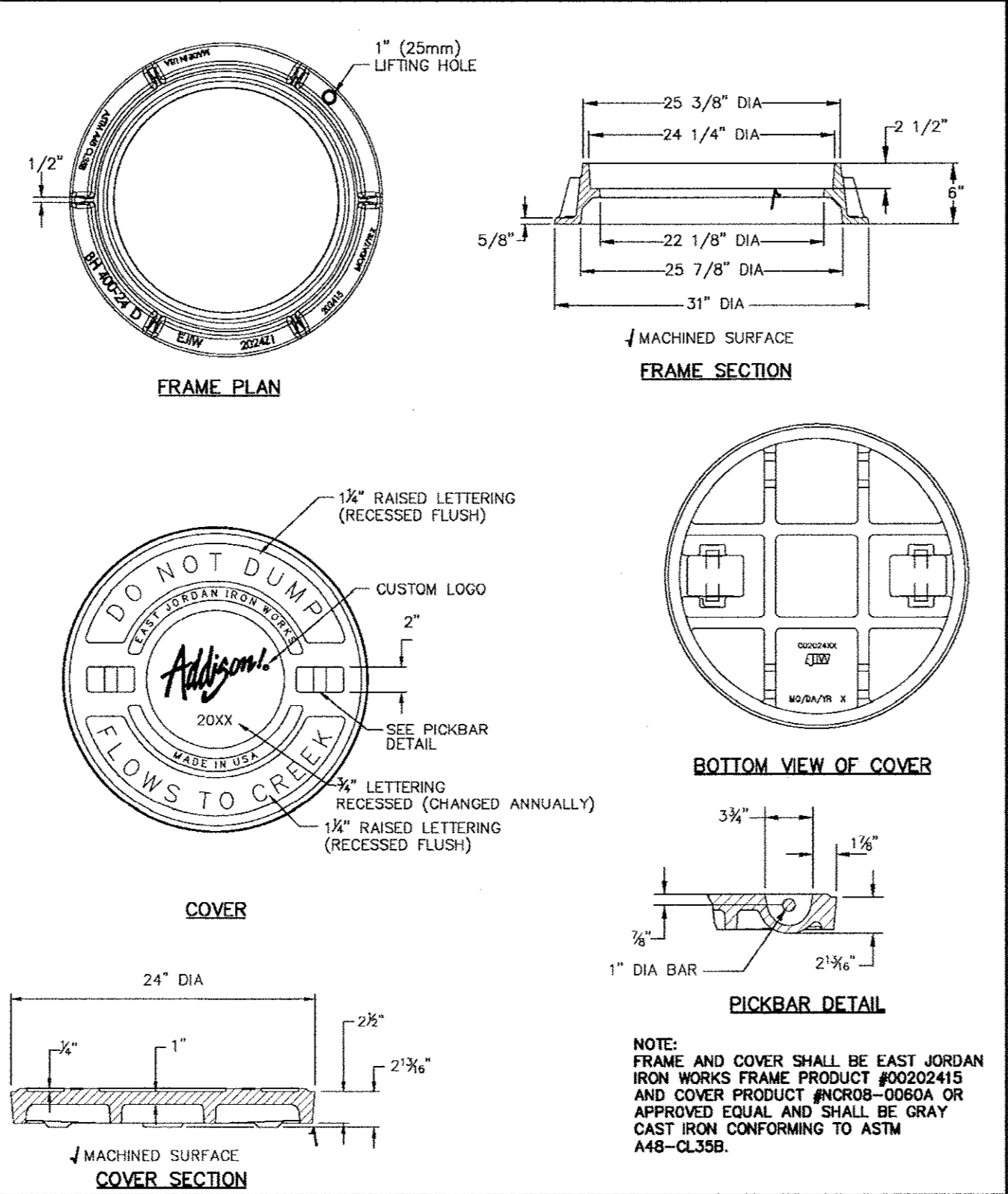
STANDARD CONSTRUCTION DETAILS STORM DRAINAGE		
DATE:	REV DATE:	SHEET:
AUGUST, 2010	-	SD-003



*Addison!*  
PUBLIC WORKS DEPARTMENT

TYPE "B" STORM SEWER  
MANHOLE  
(FOR 33" TO 78" RCP)

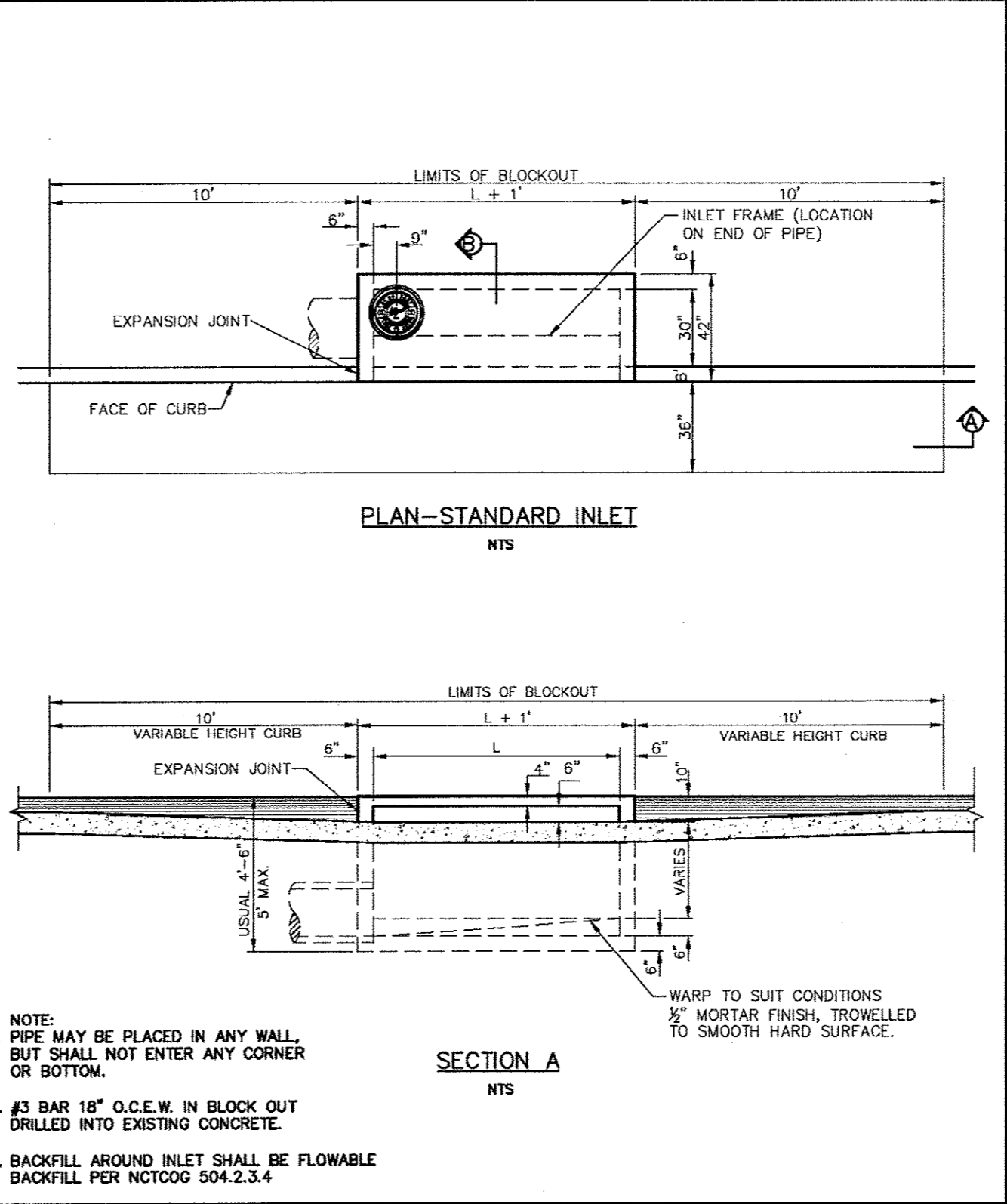
STANDARD CONSTRUCTION DETAILS STORM DRAINAGE		
DATE:	REV DATE:	SHEET:
AUGUST, 2010	-	SD-007



*Addison!*  
PUBLIC WORKS DEPARTMENT

STORM MANHOLE  
FRAME & COVER

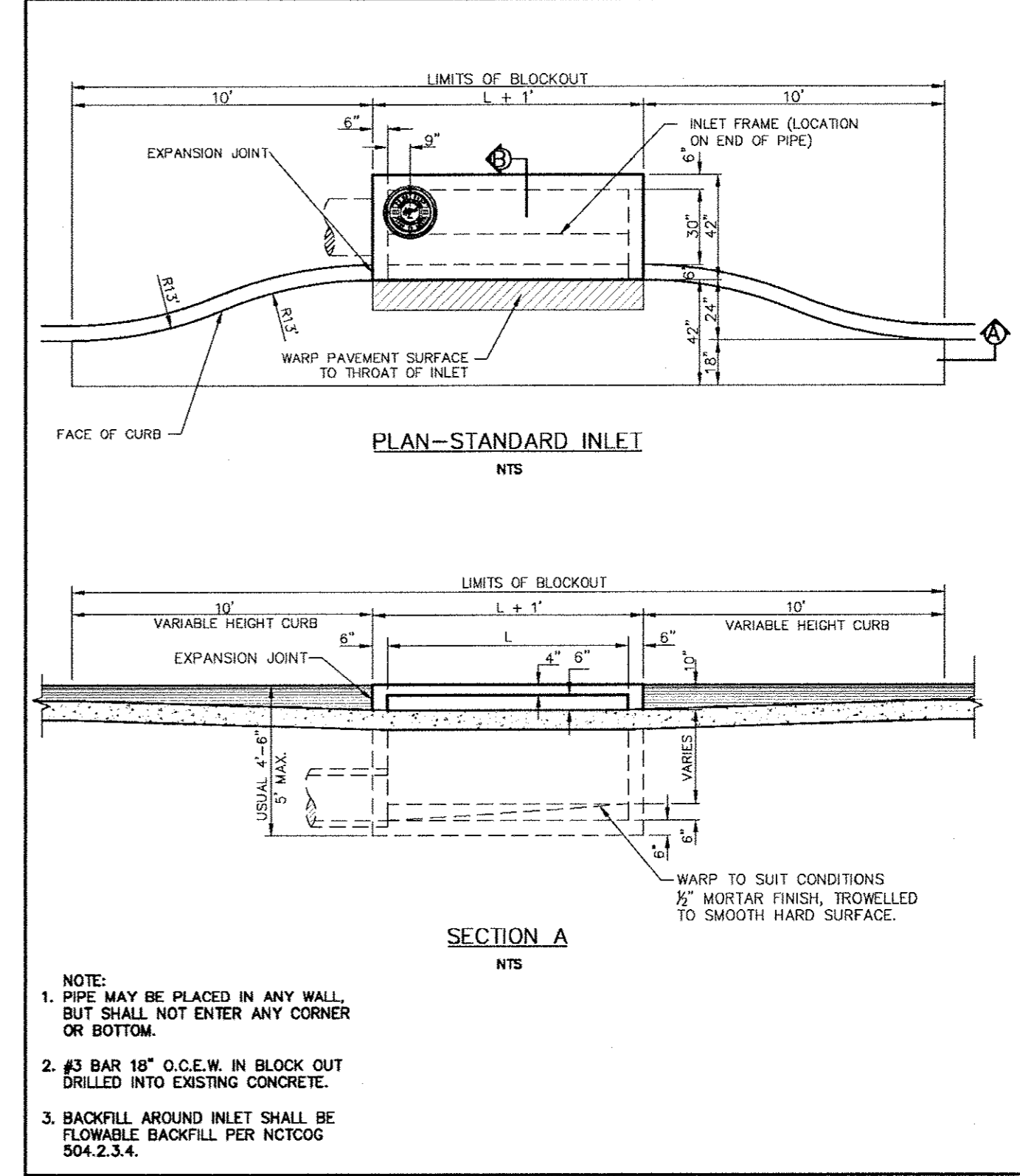
STANDARD CONSTRUCTION DETAILS STORM DRAINAGE		
DATE:	REV DATE:	SHEET:
AUGUST, 2010	-	SD-008



*Addison!*  
PUBLIC WORKS DEPARTMENT

STANDARD CURB INLET

STANDARD CONSTRUCTION DETAILS STORM DRAINAGE		
DATE:	REV DATE:	SHEET:
AUGUST, 2010	-	SD-010



*Addison!*  
PUBLIC WORKS DEPARTMENT

RECESSED CURB INLET

STANDARD CONSTRUCTION DETAILS STORM DRAINAGE		
DATE:	REV DATE:	SHEET:
AUGUST, 2010	-	SD-011

Kimley-Horn  
and Associates, Inc.  
1500 North Loop East, Suite 800  
Dallas, TX 75206-8888  
Phone: 972-770-8000  
Fax: 972-770-8888

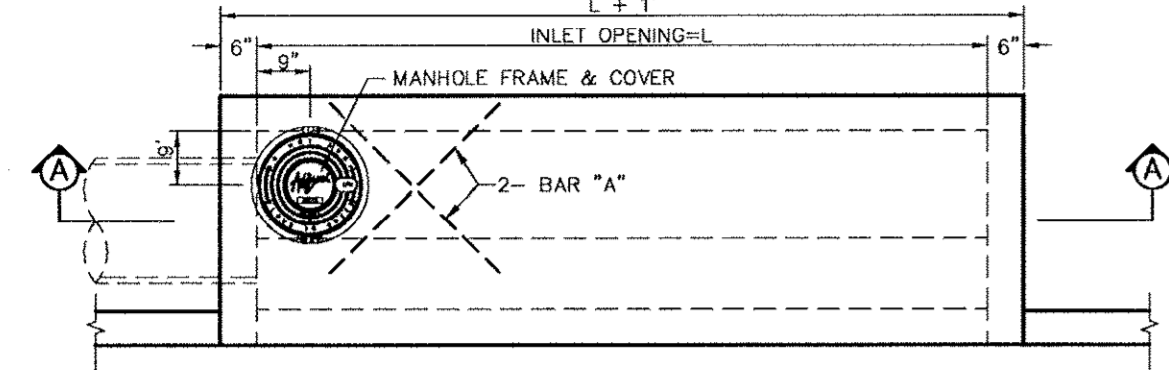
STATE OF TEXAS  
DAVID E. MEYERS  
REGISTERED PROFESSIONAL ENGINEER  
No. 81512  
12/11/2011

**Keller Springs Lofts**  
**Loft Apartments in Addison**  
Town of Addison, Texas

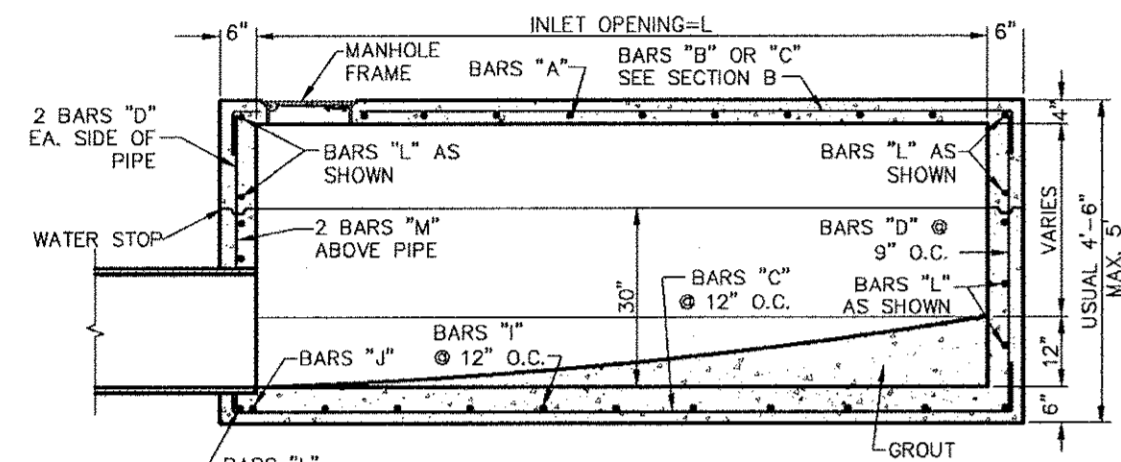
**STORM WATER DETAILS**

DATE:	OCTOBER 11, 2011
DESIGN:	KHA
DRAWN:	KHA
CHECKED:	KHA
KHA NO.:	064-362003
CITY NO.:	

NOTE: REINFORCEMENT SHOWN IS ADDITIONAL FOR SPECIAL CONDITION, FOR REMAINDER OF REINFORCEMENT SEE SECTIONS.



PLAN-STANDARD INLET  
NTS

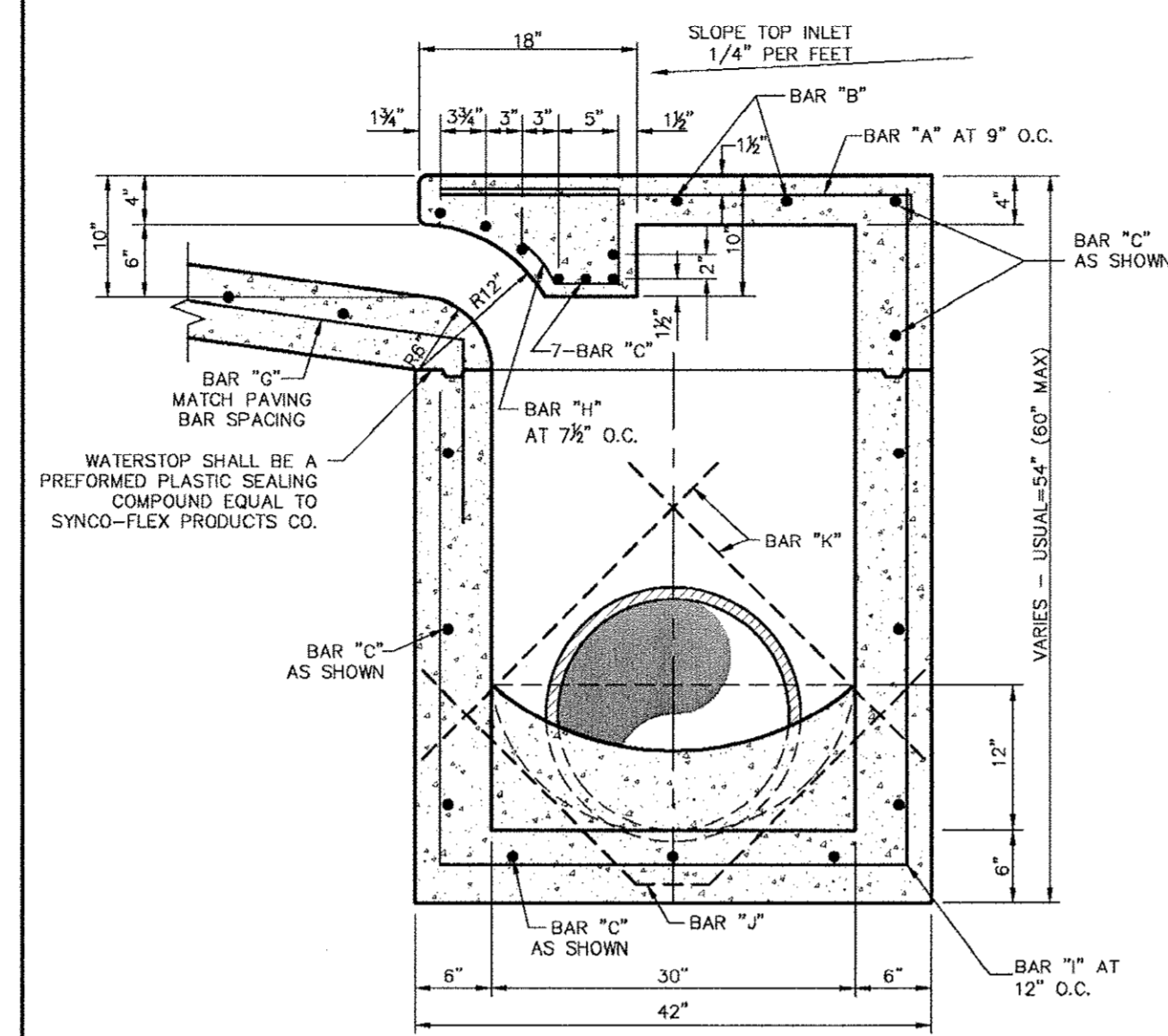


SECTION A  
NTS

**Addison!**  
PUBLIC WORKS DEPARTMENT

STANDARD CURB INLET 4, 6, 8 & 10 FOOT INLETS

STANDARD CONSTRUCTION DETAILS  
STORM DRAINAGE  
DATE: AUGUST, 2010 REV DATE: SHEET: SD-012



SECTION "B"  
NTS

**Addison!**  
PUBLIC WORKS DEPARTMENT

TYPICAL SECTION "B" STANDARD & RECESSED CURB INLETS (4, 6, 8 & 10 FOOT INLETS)

STANDARD CONSTRUCTION DETAILS  
STORM DRAINAGE  
DATE: AUGUST, 2010 REV DATE: SHEET: SD-013

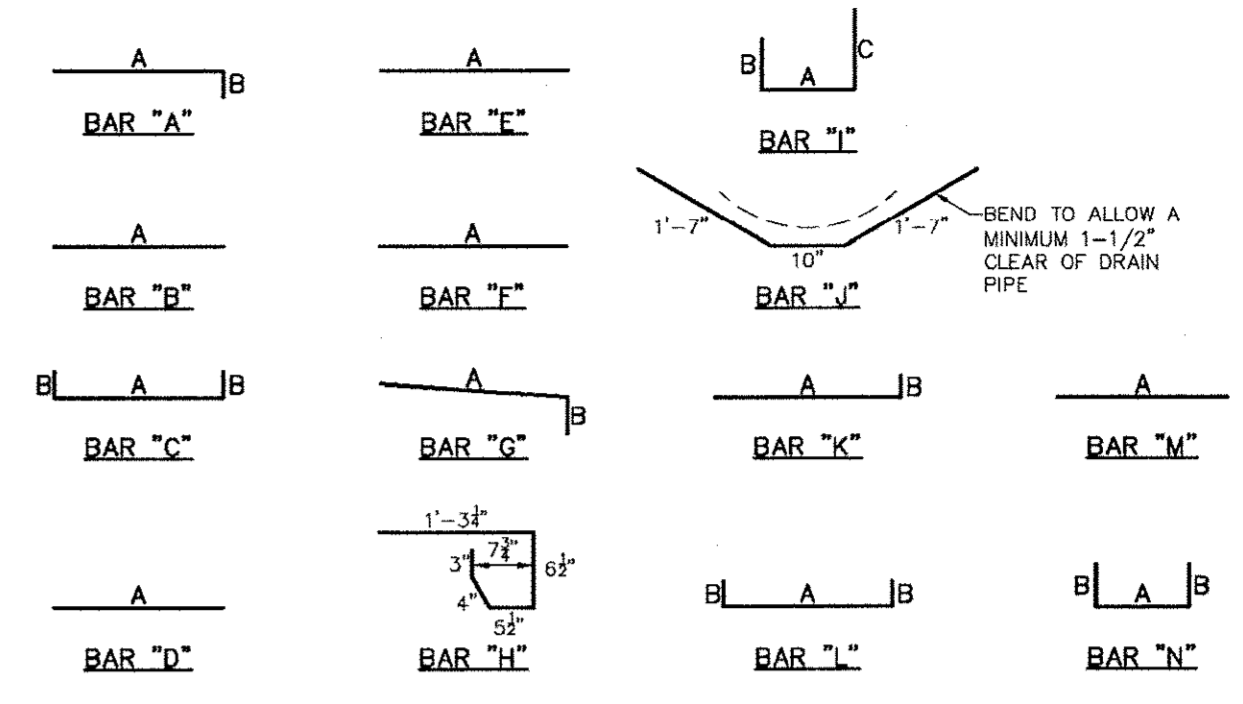
INLET LENGTH	BAR TYPE	BAR DIA (1/8")	NO REQ'D	BAR DIMENSIONS		
				A	B	C
4'	A	3	6	3'-2"	0'-3"	-
4'	B	3	2	2'-10"	0'-6"	-
4'	C	4	18	4'-8"	0'-5"	-
4'	D	4	9	4'-8"	-	-
4'	G	3	4	2'-0"	1'-3"	-
4'	H	3	7	-	-	-
4'	I	4	3	3'-2"	3'-2"	4'-8"
4'	J	5	1	-	-	-
4'	K	5	2	3'-2"	0'-6"	-
4'	L	4	11	3'-2"	0'-6"	-
4'	M	4	2	3'-0"	-	-
6'	A	3	9	3'-2"	0'-3"	-
6'	B	3	2	4'-10"	-	-
6'	C	4	18	6'-8"	0'-6"	-
6'	D	4	9	4'-8"	-	-
6'	G	3	6	2'-0"	1'-3"	-
6'	H	3	11	-	-	-
6'	I	4	5	3'-2"	3'-2"	4'-8"
6'	J	5	1	-	-	-
6'	K	5	2	3'-2"	0'-6"	-
6'	L	4	11	3'-2"	0'-6"	-
6'	M	4	2	3'-0"	-	-
8'	A	3	12	3'-2"	0'-3"	-
8'	B	3	2	6'-10"	-	-
8'	C	4	18	8'-8"	0'-6"	-
8'	D	4	9	4'-8"	-	-
8'	G	3	7	2'-0"	1'-3"	-
8'	H	3	14	-	-	-
8'	I	4	7	3'-2"	3'-2"	4'-8"
8'	J	5	1	-	-	-
8'	K	5	2	3'-2"	0'-6"	-
8'	L	4	11	3'-2"	0'-6"	-
8'	M	4	2	3'-0"	-	-
10'	A	3	15	3'-2"	0'-3"	-
10'	B	3	2	8'-10"	-	-
10'	C	4	18	10'-8"	0'-6"	-
10'	D	4	9	4'-8"	-	-
10'	G	3	9	2'-0"	1'-3"	-
10'	H	3	17	-	-	-
10'	I	4	9	3'-2"	3'-2"	4'-8"
10'	J	5	1	-	-	-
10'	K	5	2	3'-2"	0'-6"	-
10'	L	4	11	3'-2"	0'-6"	-
10'	M	4	2	3'-0"	-	-

\* SEE DIAGRAM FOR DIMENSIONS  
\*\* FIELD CUT AS REQUIRED TO ACCOMMODATE DRAIN PIPE

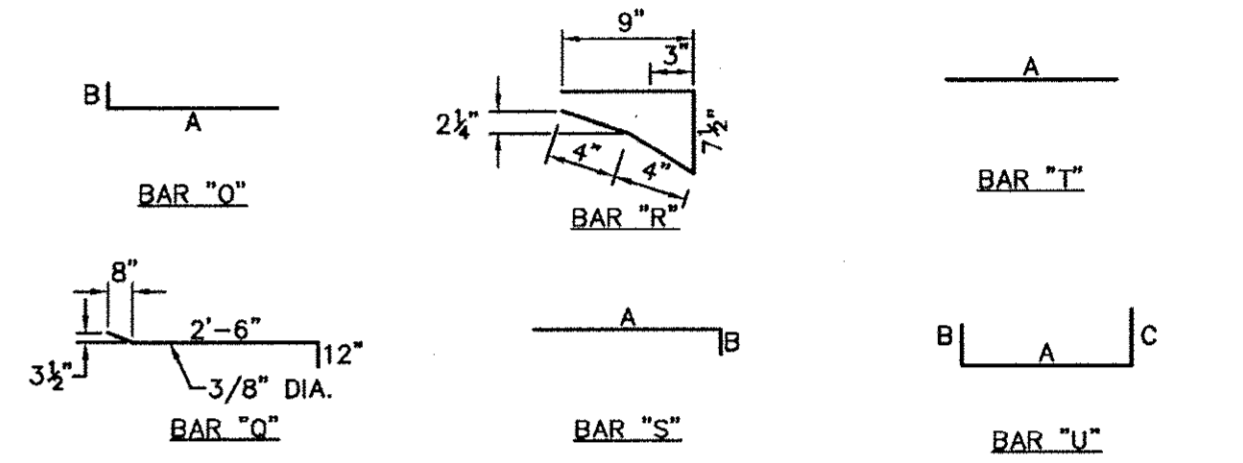
**Addison!**  
PUBLIC WORKS DEPARTMENT

REINFORCING STEEL SCHEDULE 4, 6, 8 & 10 FOOT INLETS

STANDARD CONSTRUCTION DETAILS  
STORM DRAINAGE  
DATE: AUGUST, 2010 REV DATE: SHEET: SD-014



REINFORCING BAR DIAGRAMS  
NTS



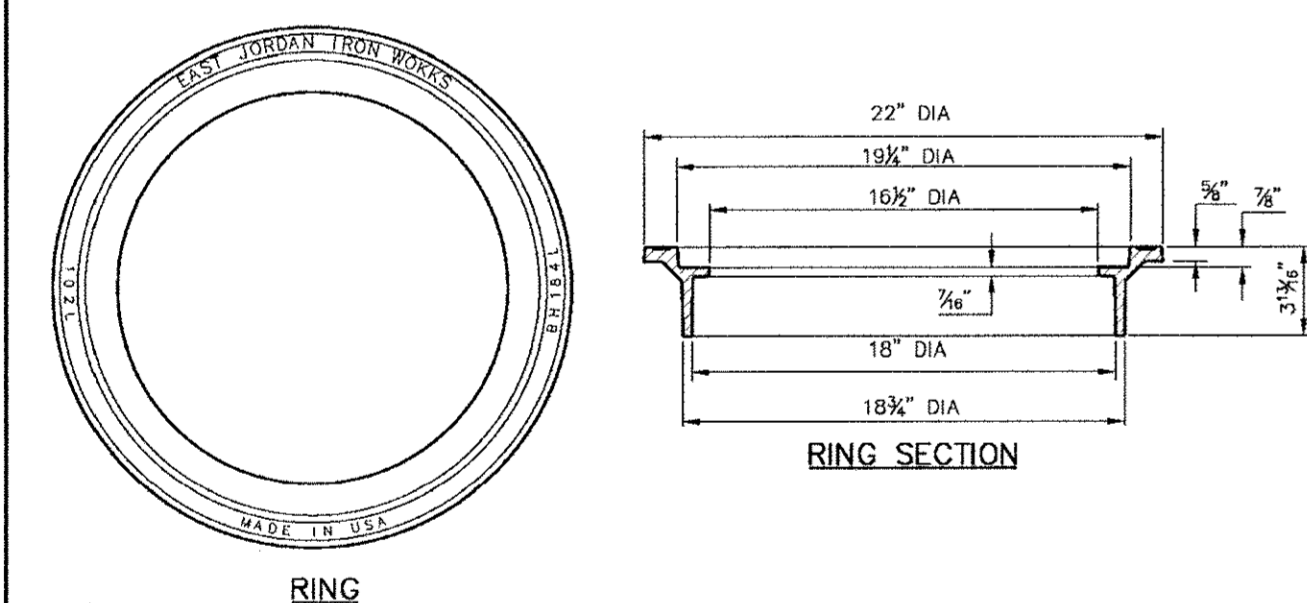
BAR DIAGRAMS (BRICK ON INLET)  
NTS

NOTE: BAR DESIGNATIONS AND DIMENSIONS ARE DIFFERENT FROM STEEL SCHEDULE FOR REGULAR INLETS

**Addison!**  
PUBLIC WORKS DEPARTMENT

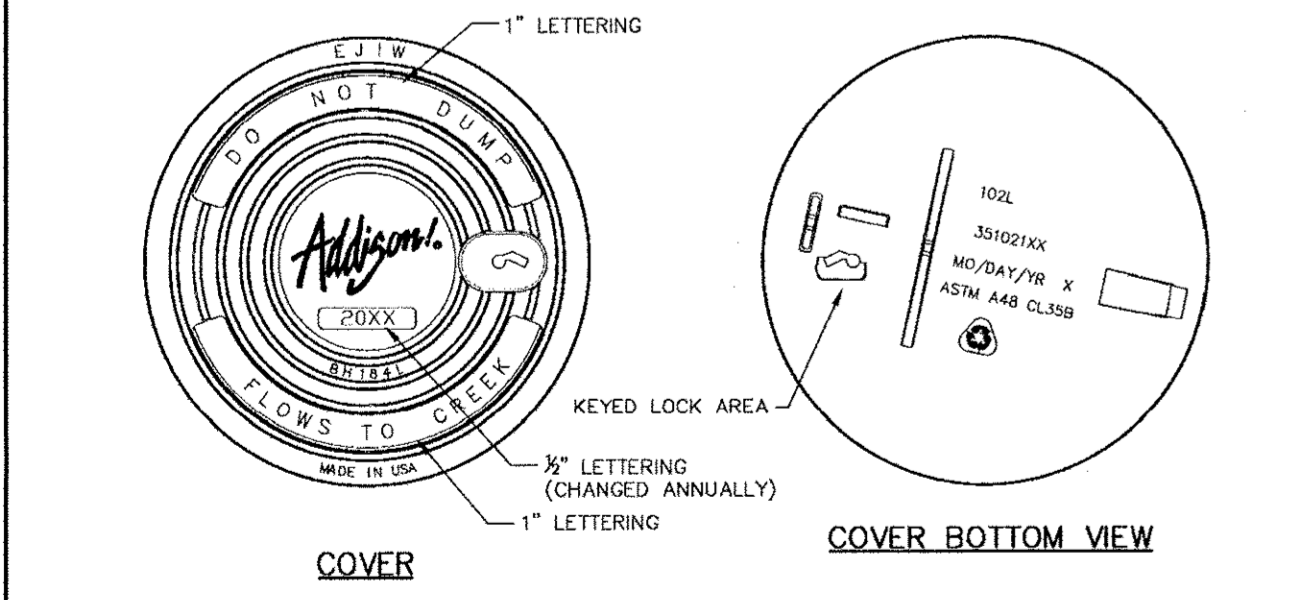
REINFORCING BAR DIAGRAMS

STANDARD CONSTRUCTION DETAILS  
STORM DRAINAGE  
DATE: AUGUST, 2010 REV DATE: SHEET: SD-015



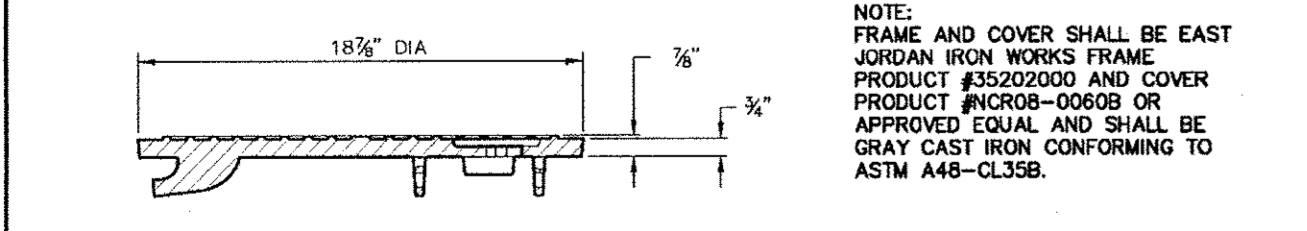
RING

RING SECTION



COVER

COVER BOTTOM VIEW



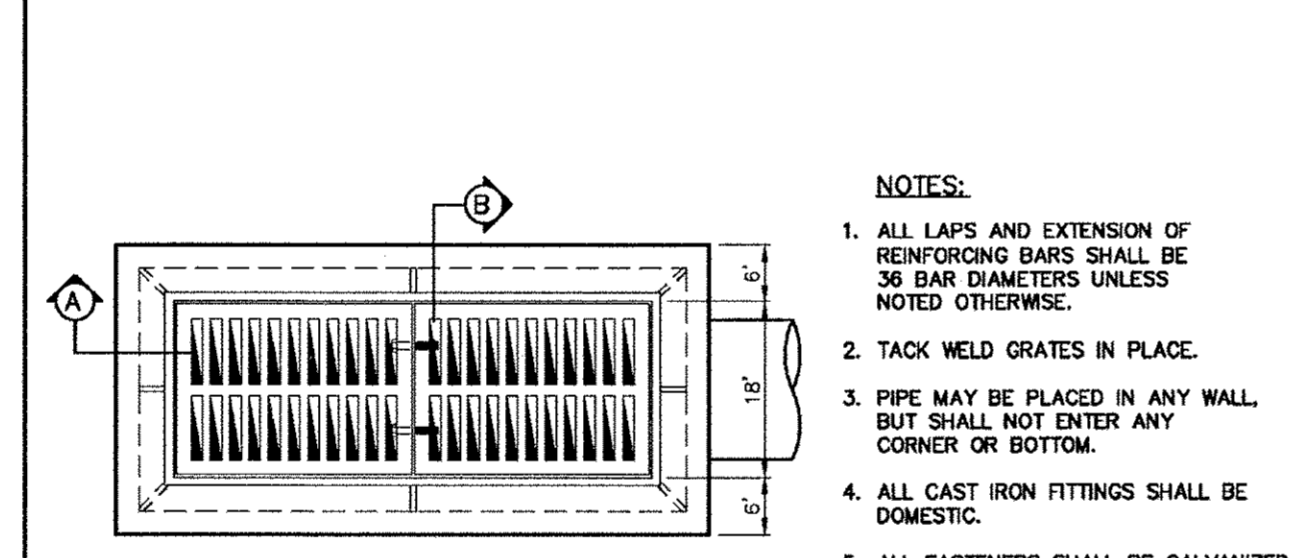
COVER SECTION

NOTE: FRAME AND COVER SHALL BE EAST JORDAN IRON WORKS FRAME PRODUCT #EJ2020000 AND COVER PRODUCT #NCROB-00809 OR APPROVED EQUAL AND SHALL BE GRAY CAST IRON CONFORMING TO ASTM A48-CL35B.

**Addison!**  
PUBLIC WORKS DEPARTMENT

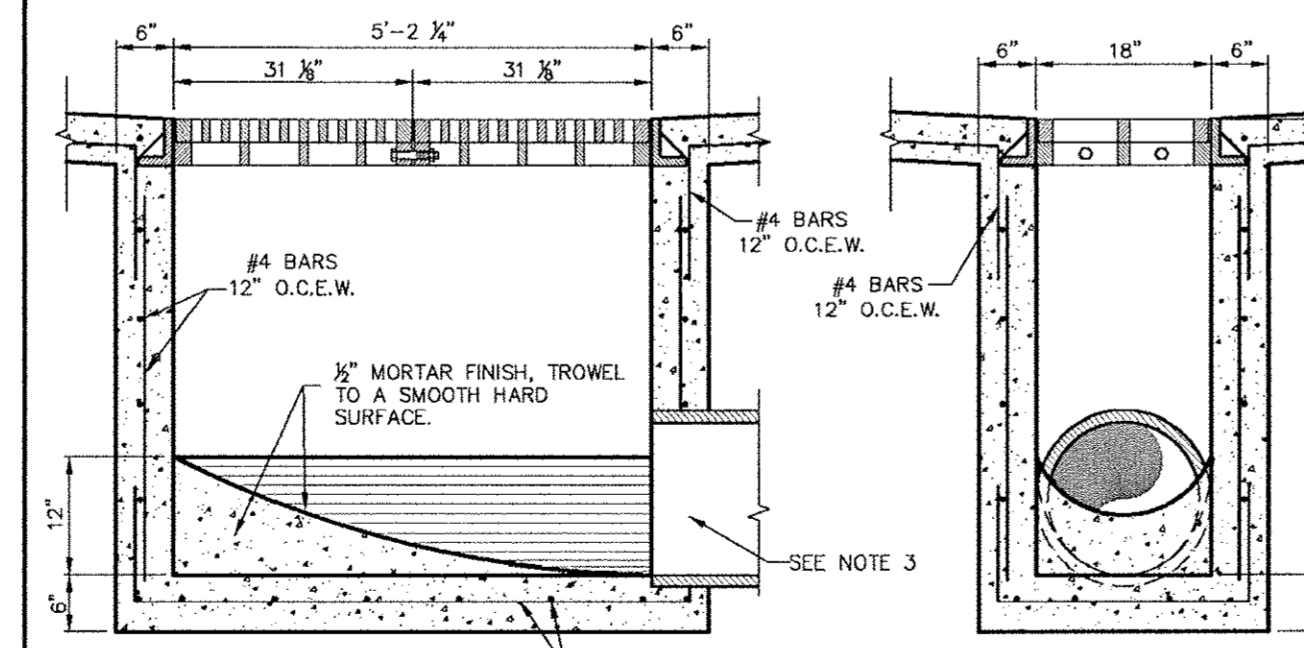
INLET FRAME & COVER

STANDARD CONSTRUCTION DETAILS  
STORM DRAINAGE  
DATE: AUGUST, 2010 REV DATE: SHEET: SD-014



PLAN  
NTS

- NOTES:
1. ALL LAPS AND EXTENSION OF REINFORCING BARS SHALL BE 36 BAR DIAMETERS UNLESS NOTED OTHERWISE.
  2. TACK WELD GRATES IN PLACE.
  3. PIPE MAY BE PLACED IN ANY WALL BUT SHALL NOT ENTER ANY CORNER OR BOTTOM.
  4. ALL CAST IRON FITTINGS SHALL BE DOMESTIC.
  5. ALL FASTENERS SHALL BE GALVANIZED.



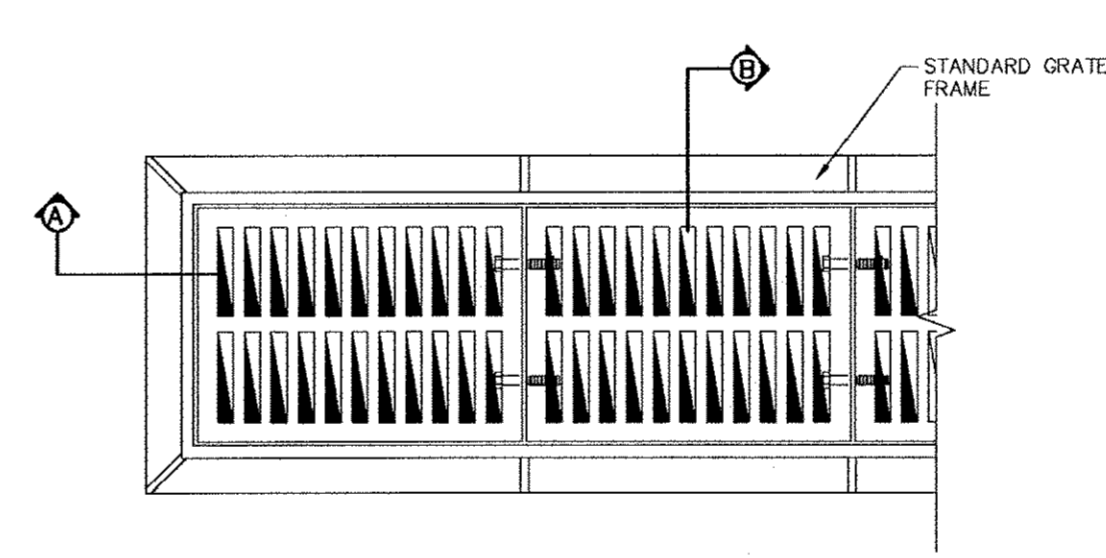
SECTION A  
NTS

SECTION B  
NTS

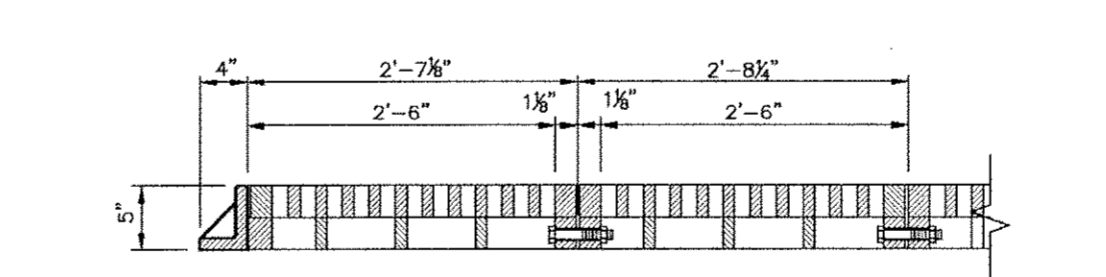
**Addison!**  
PUBLIC WORKS DEPARTMENT

TWO GRATE INLET

STANDARD CONSTRUCTION DETAILS  
STORM DRAINAGE  
DATE: AUGUST, 2010 REV DATE: SHEET: SD-016



PLAN  
NTS



SECTION A  
NTS

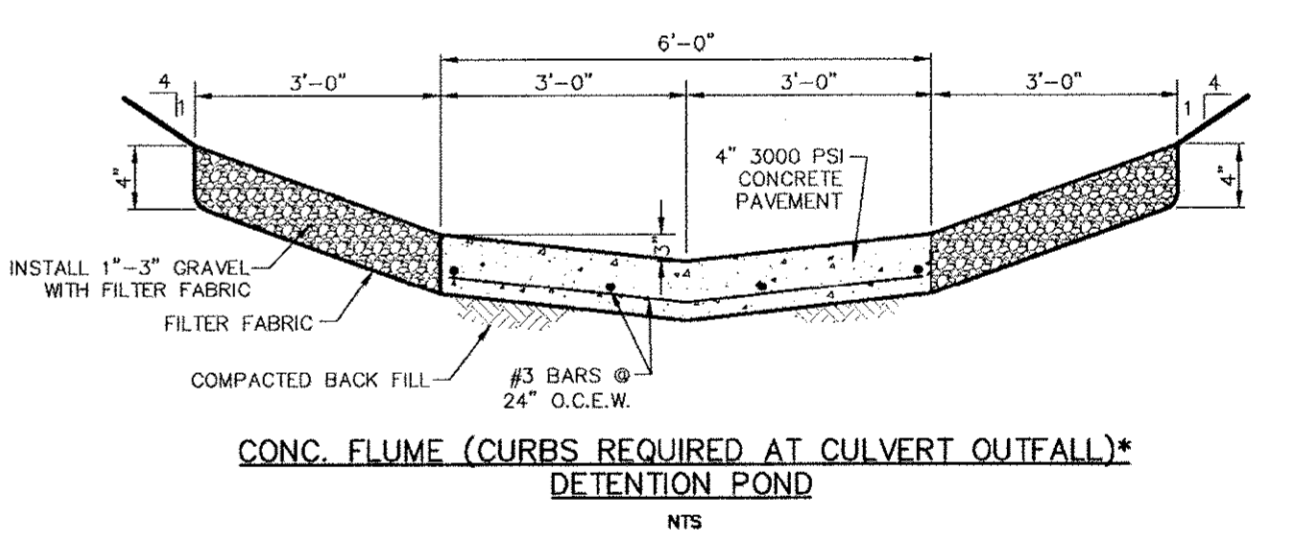
SECTION B  
NTS

- NOTES:
1. GRATE AND FRAME SHALL BE PATTERN NO. 814 AS MANUFACTURED BY BASS AND HAYES FOUNDRY OR APPROVED EQUAL.
  2. ALL CAST IRON FITTINGS SHALL BE DOMESTIC.
  3. ALL FASTENERS SHALL BE GALVANIZED.

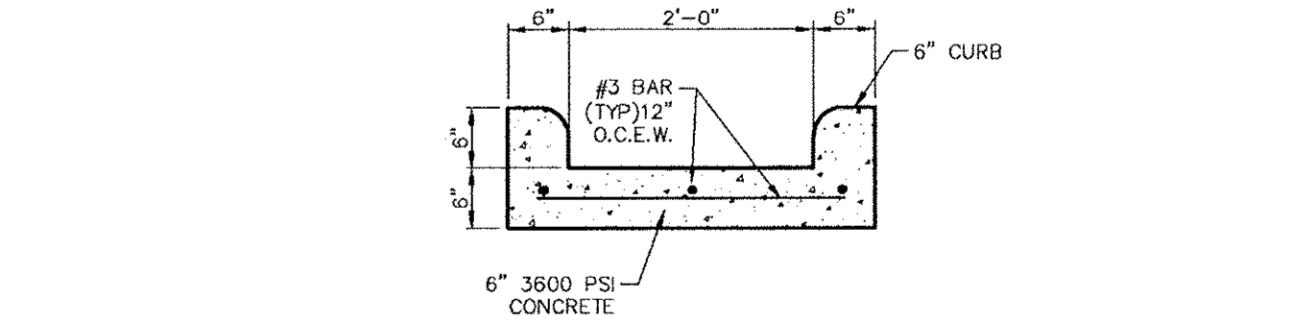
**Addison!**  
PUBLIC WORKS DEPARTMENT

GRATE DETAIL

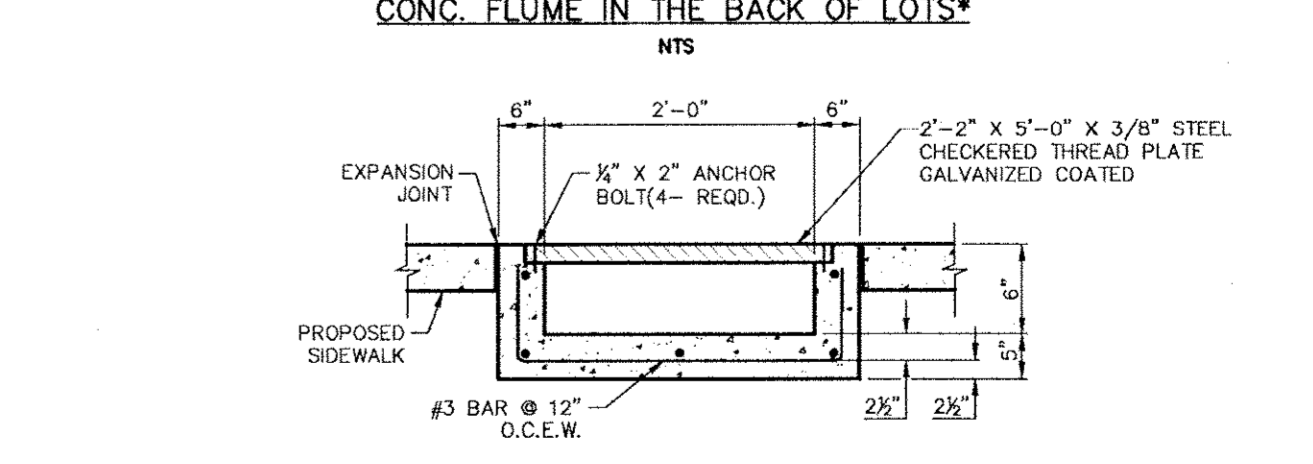
STANDARD CONSTRUCTION DETAILS  
STORM DRAINAGE  
DATE: AUGUST, 2010 REV DATE: SHEET: SD-014



CONC. FLUME (CURBS REQUIRED AT CULVERT OUTFALL)\*  
DETENTION POND  
NTS



CONC. FLUME IN THE BACK OF LOTS\*  
NTS



CONC. FLUME WITH PLATE COVER\*  
NTS

\*FOR ALL FLUMES THE MINIMUM SLOPE WILL BE 0.75%

**Addison!**  
PUBLIC WORKS DEPARTMENT

STORM RELATED FLUMES

STANDARD CONSTRUCTION DETAILS  
STORM DRAINAGE  
DATE: AUGUST, 2010 REV DATE: SHEET: SD-015

Kimley-Horn and Associates, Inc.  
1000 WEST 11TH STREET, SUITE 200  
DALLAS, TEXAS 75208  
TEL: 972.382.7700  
FAX: 972.382.7701

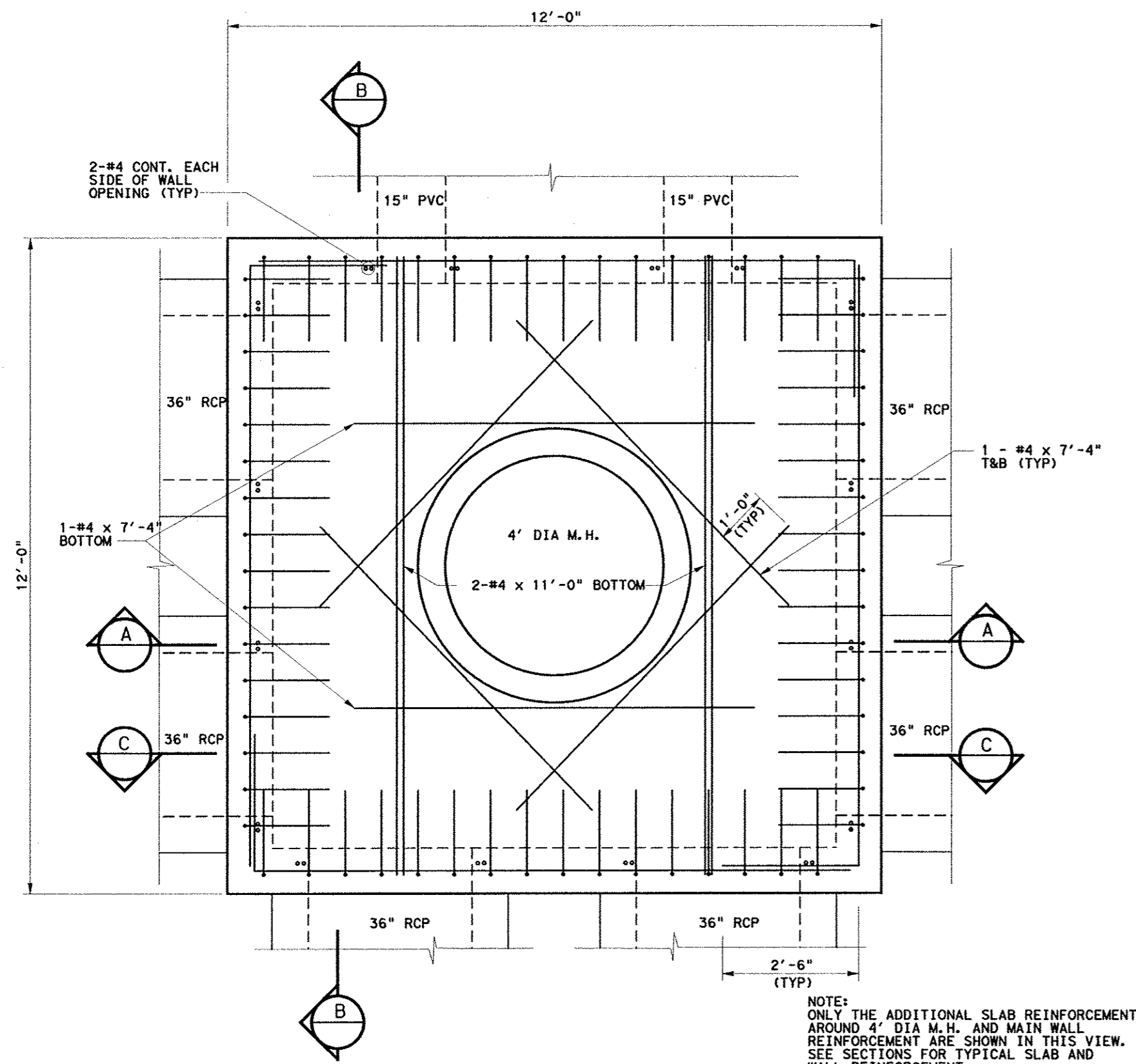
STATE OF TEXAS  
DAVID E. MEYERS  
REGISTERED PROFESSIONAL ENGINEER  
NO. 15112  
EXPIRES 12/31/2011

Keller Springs Lofts  
Loft Apartments in Addison  
Town of Addison, Texas

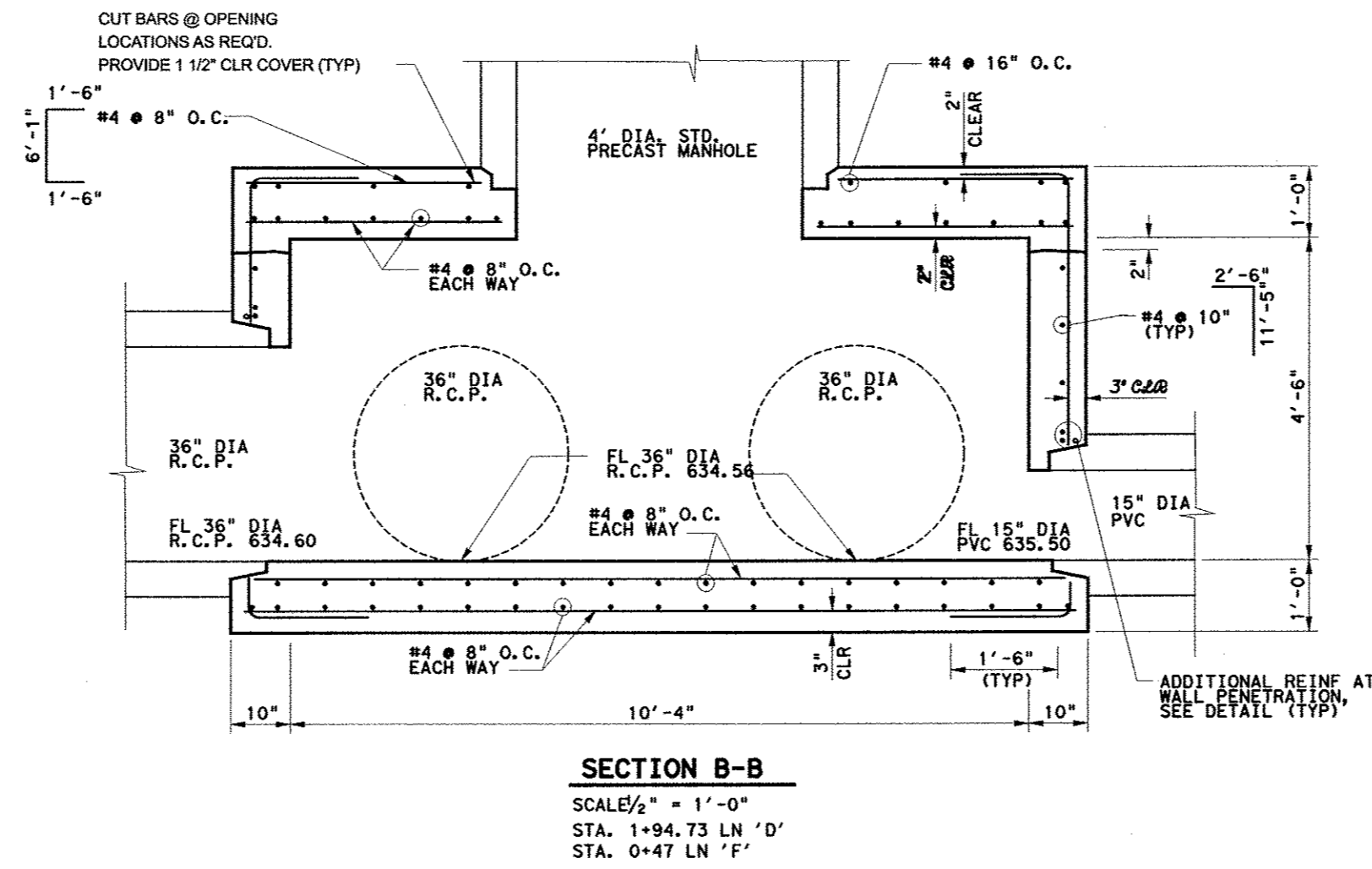
STORM WATER DETAILS

DATE: OCTOBER 11, 2011  
DESIGN: KHA  
DRAWN: KHA  
CHECKED: KHA  
KHA NO.: 064362003  
CITY NO.:

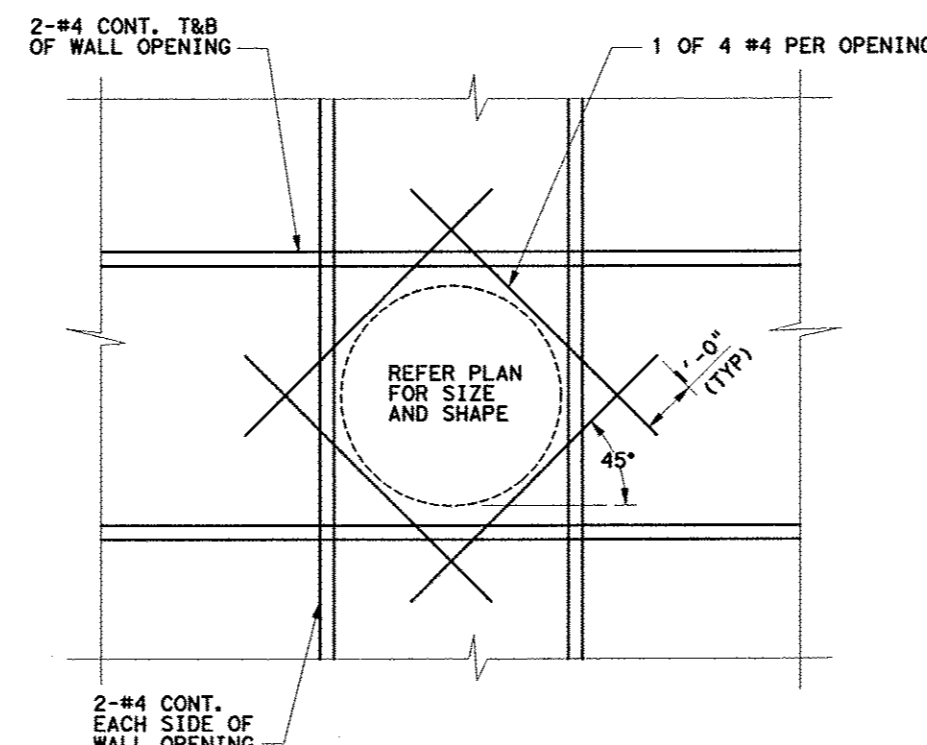
SHEET  
C14



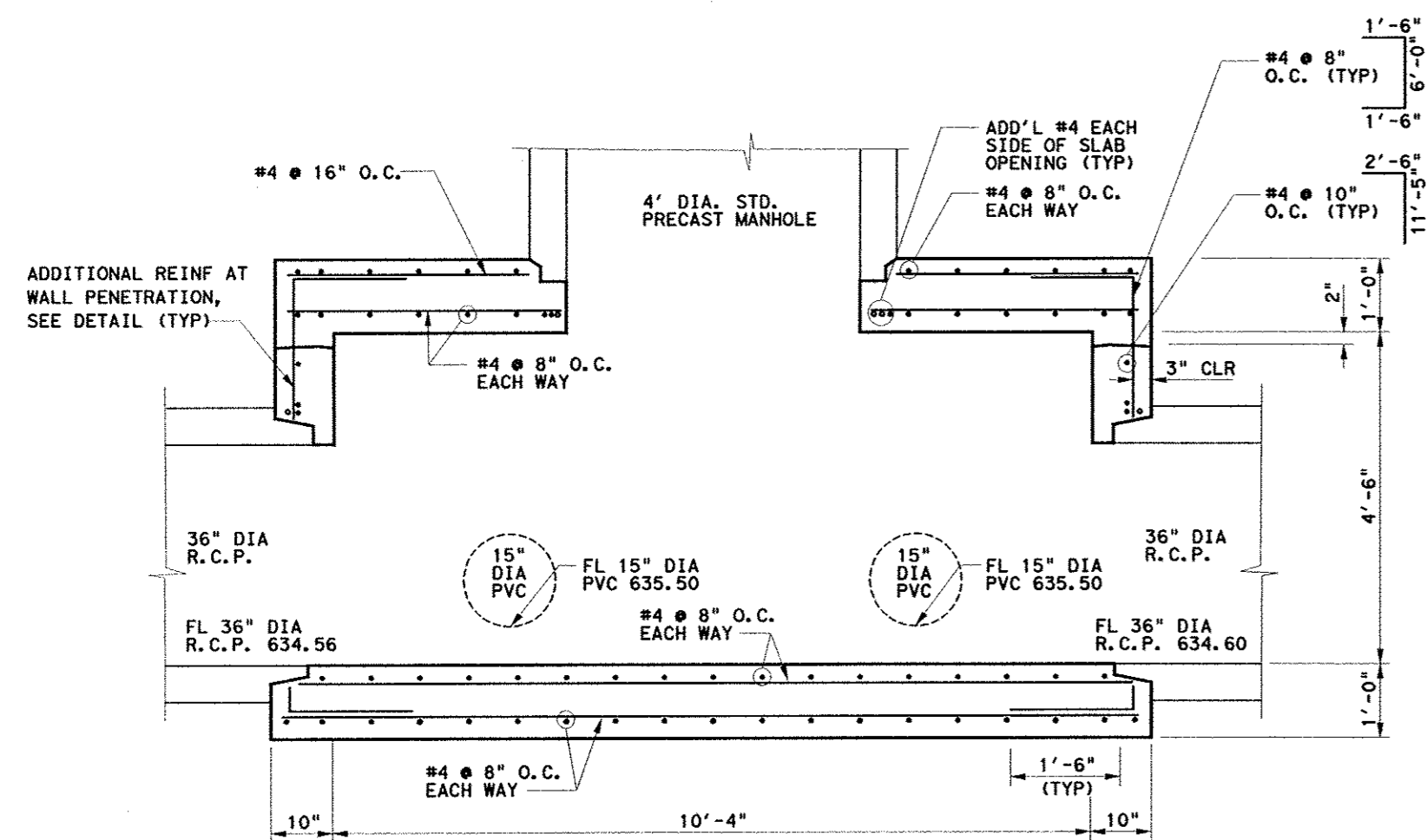
**PLAN VIEW**  
 SCALE 1/2" = 1'-0"  
 STA. 1+94.73 LN 'D'  
 STA. 0+47 LN 'F'



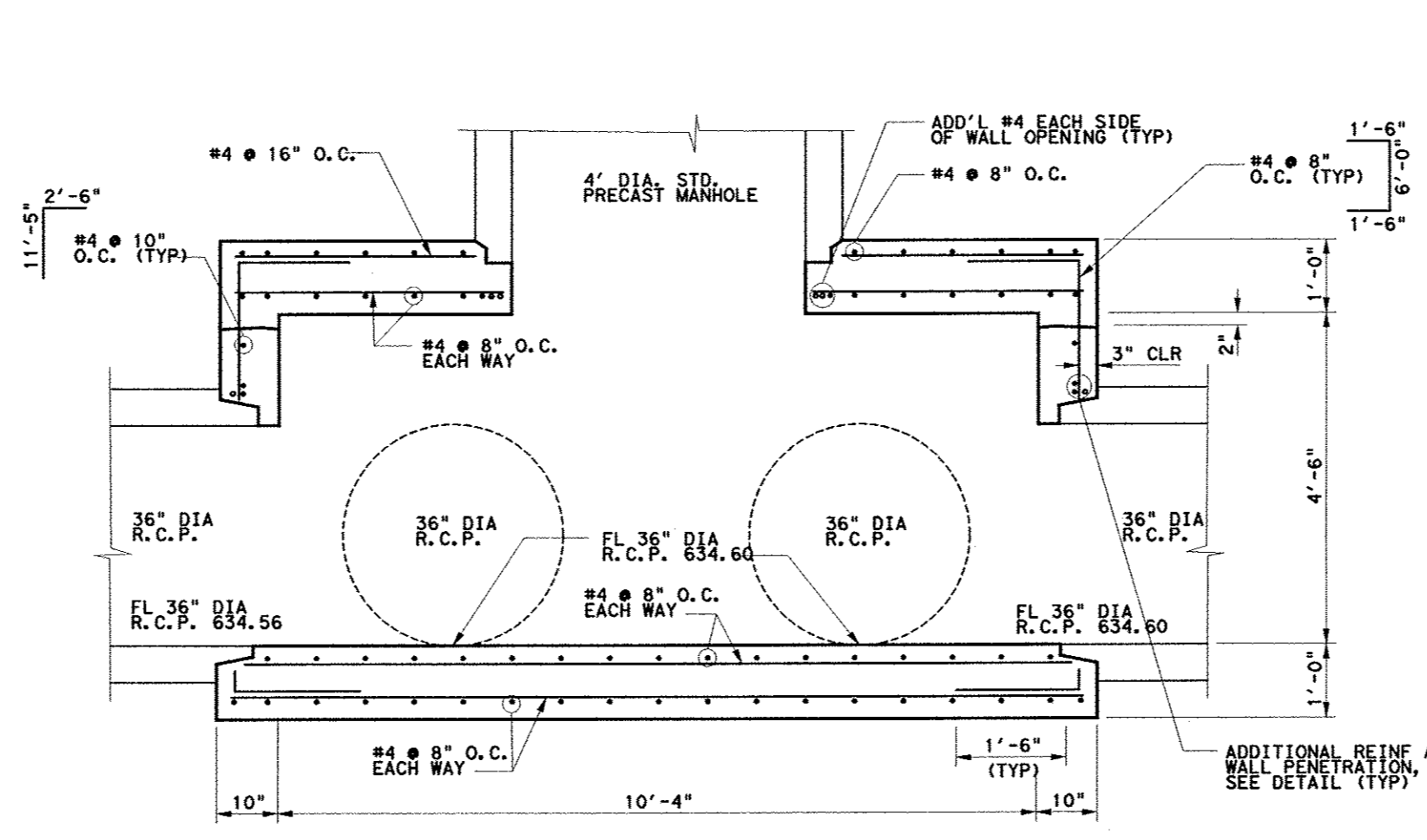
**SECTION B-B**  
 SCALE 1/2" = 1'-0"  
 STA. 1+94.73 LN 'D'  
 STA. 0+47 LN 'F'



**DETAILS OF ADDITIONAL REINFORCEMENT AT TYPICAL WALL PENETRATION**  
 SCALE 1/2" = 1'-0"



**SECTION A-A**  
 SCALE 1/2" = 1'-0"  
 STA. 1+94.73 LN 'D'  
 STA. 0+47 LN 'F'

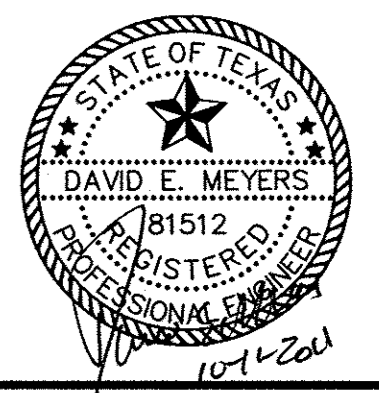


**SECTION C-C**  
 SCALE 1/2" = 1'-0"  
 STA. 1+94.73 LN 'D'  
 STA. 0+47 LN 'F'

**GENERAL NOTES:**

- ALL WORK SHALL CONFORM TO REQUIREMENTS OF STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, 2002 17TH EDITION, HEREIN REFERRED TO AS THE STANDARD SPECIFICATION, AND/OR ADDITIONAL PREVAILING CODES.
- NOTES HEREIN EXCEPTED FROM THE STANDARD SPECIFICATIONS ARE FOR GENERAL INFORMATION ONLY AND DO NOT RELIEVE THE CONTRACTOR'S RESPONSIBILITIES FOR OBTAINING COPIES OF AND/OR CONFORMING TO THE STANDARD SPECIFICATIONS.
- WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. CONTRACTOR SHALL COORDINATE, VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS, DETAILS AND CONDITIONS BEFORE STARTING THE WORK.
- CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR SHORING AND BRACING OF ALL WORK INCLUDING PROTECTION OF EXISTING STRUCTURES AND UTILITIES.
- ANY SUBSTITUTIONS SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO INSTALLATION, SHALL HAVE PREVIOUS APPROVAL FROM THE GOVERNING BUILDING DEPARTMENT AND SHALL HAVE EITHER A CURRENT INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS RESEARCH REPORT OR A NATIONAL EVALUATION REPORT.
- BACKFILL SHALL BE A COMPACTED EXISTING SITE SOIL OR ROCK AS APPROVED BY THE GEOTECHNICAL ENGINEER WITH MAXIMUM EQUIVALENT FLUID PRESSURE OF 80 PSF/FT DEPTH. UPPER 18" OF BACKFILL SHALL BE SEALED WITH A COMPACTED COHESIVE SOIL (PI > 25).
- BACKFILL SHALL BE PLACED AS STANDARD COMPACTED EARTHFILL, PLACED IN 8 INCH THICK LOOSE LIFTS AND COMPACTED AT 92% (MINIMUM) OF THE MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT. CARE SHOULD BE TAKEN TO ASSURE ADEQUATE COMPACTION ADJACENT TO WALL WITH MANUAL COMPACTION EQUIPMENT (NO HEAVY EQUIPMENT). NO VEGETATION OR ROCKS GREATER THAN 3 INCHES IN ANY DIMENSION SHALL BE ALLOWED IN THE FILL.
- SUB-GRADE PREPARATION AND BACKFILL MATERIALS AND COMPACTION TO BE UNDER THE SUPERVISION OF THE GEOTECHNICAL FIRM, REED ENGINEERING GROUP, LTD. A MINIMUM ALLOWABLE BEARING PRESSURE OF 2000 PSF SHALL BE OBTAINED.
- CONCRETE FOR WALLS AND SLABS:  
 f'c = 4000 PSI @ 28 DAYS, NORMAL WEIGHT  
 COARSE AGGREGATE SIZE NO. 57, 1" MAXIMUM  
 AIR-ENTRAINMENT 2-1/2% BY VOLUME  
 WATER-CEMENT RATIO 0.48  
 CEMENT CONTENT 470 LBS PER CUBIC YARD MINIMUM  
 SLUMP 4" ± 1" WITH WATER REDUCING ADMIXTURE  
 FLY ASH - 20-25% MAY BE ADDED
- REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60.
- ALL REINFORCING BARS SPLICE SHALL BE 40 BAR DIA. (18" MINIMUM) UNLESS OTHERWISE SHOWN ON THE DRAWINGS.
- UNLESS OTHERWISE NOTED (UNO), ALL DETAILING, FABRICATION AND PLACING OF REINFORCING STEEL SHALL CONFORM TO THE "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES" - A.C.I. 315.
- ALL REINFORCING BAR HOOKS SHOWN ON DRAWINGS SHALL BE A.C.I. STANDARD 90 DEGREE HOOKS, UNO.
- CHAMFER ALL EXPOSED EXTERNAL CORNERS OF CONCRETE WITH 3/4" X 45 DEGREE CHAMFER, UNO.
- EXPANSION JOINT MATERIAL SHALL CONFORM TO ASTM D-1751 FOR NON-EXTRUDING AND RESILIENT BITUMINOUS TYPES.
- REFER TO GEOTECHNICAL ENGINEER FOR RECOMMENDED TECHNICAL PROVISIONS FOR THE CONSTRUCTION PRACTICE IN SHORING AND SLOPING OF EXCAVATIONS AND REQUIRED COMPACTION REQUIREMENTS. GEOTECHNICAL ENGINEER SHALL OBSERVE FOOTING/SLAB SUBGRADE BEFORE CONCRETE PLACEMENT.
- TIME OF OPEN EXCAVATION FOR WALL CONSTRUCTION SHALL BE LIMITED PER GEOTECHNICAL ENGINEER.
- CLEAR SPACING BETWEEN REINFORCING BARS SHALL BE A MINIMUM OF 1/2 BAR DIAMETERS, OR 1/2", OR 1 TIMES THE MAXIMUM AGGREGATE SIZE, WHICHEVER IS GREATER.
- REINFORCING SHALL HAVE THE FOLLOWING MINIMUM PROTECTIVE COVER OF CONCRETE, UNO:  
 A) 3" - CONCRETE CAST AGAINST GROUND  
 B) 2" - FORMED CONCRETE SURFACES IN CONTACT WITH GROUND  
 C) 2" - FORMED CONCRETE SURFACES EXPOSED TO WEATHER  
 D) 2" - TOP REINFORCEMENT IN DECK SLABS
- NO OPENINGS FOR PIPES, CONDUIT, ETC. SHALL BE MADE IN CONCRETE WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER UNLESS SHOWN ON THE DRAWINGS.

Kimley-Horn and Associates, Inc.  
 1000 West 10th Street  
 Fort Worth, TX 76102  
 Phone: 817-335-7700  
 Fax: 817-335-7700  
 Date: \_\_\_\_\_  
 Revision: \_\_\_\_\_



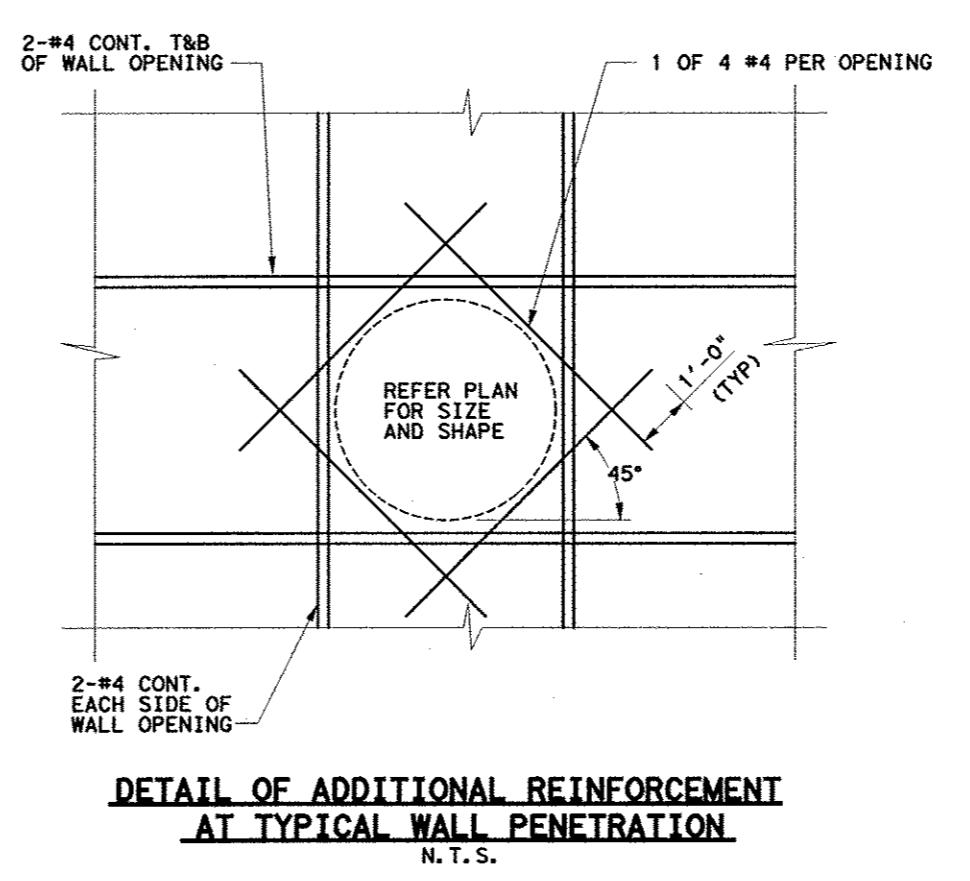
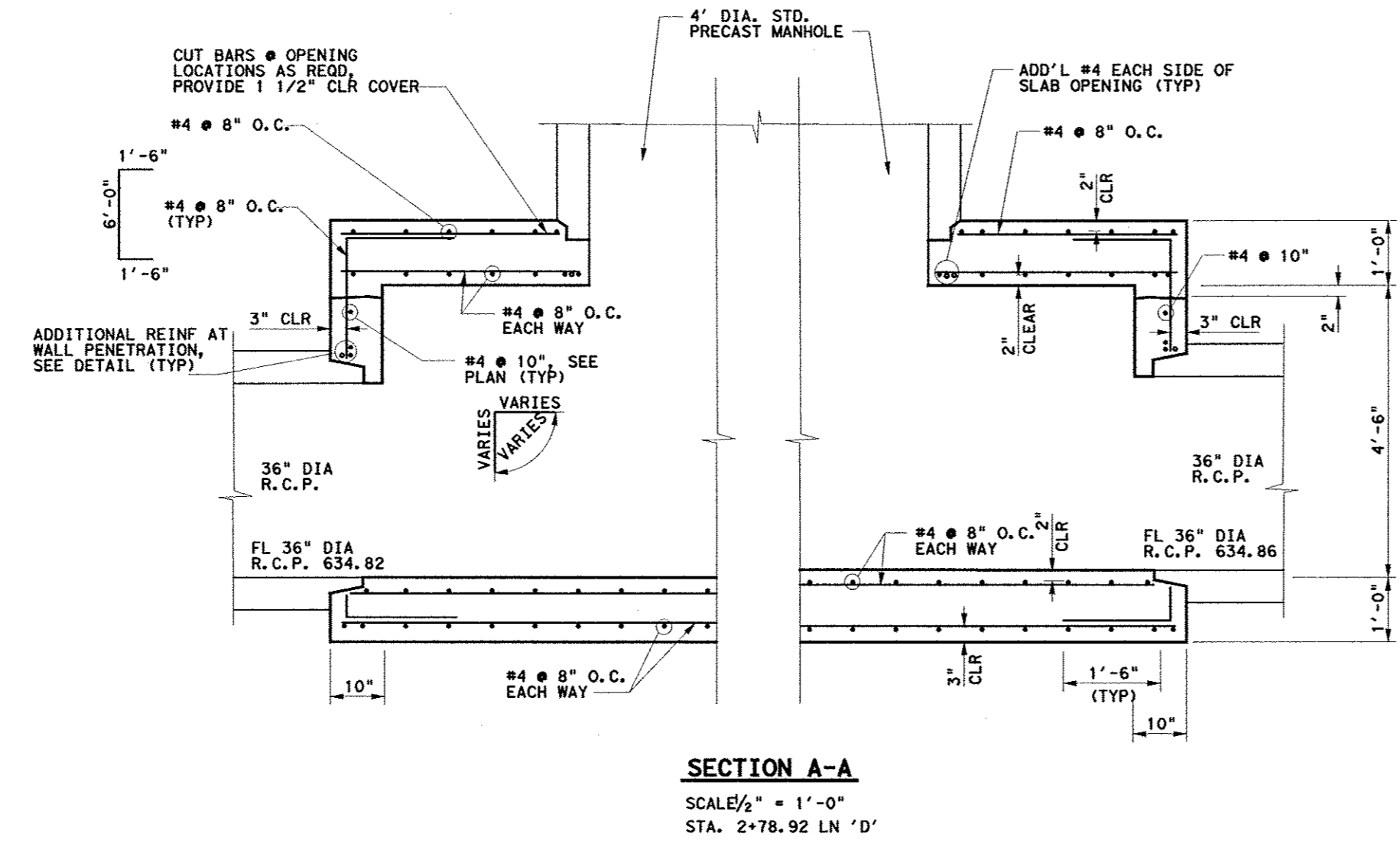
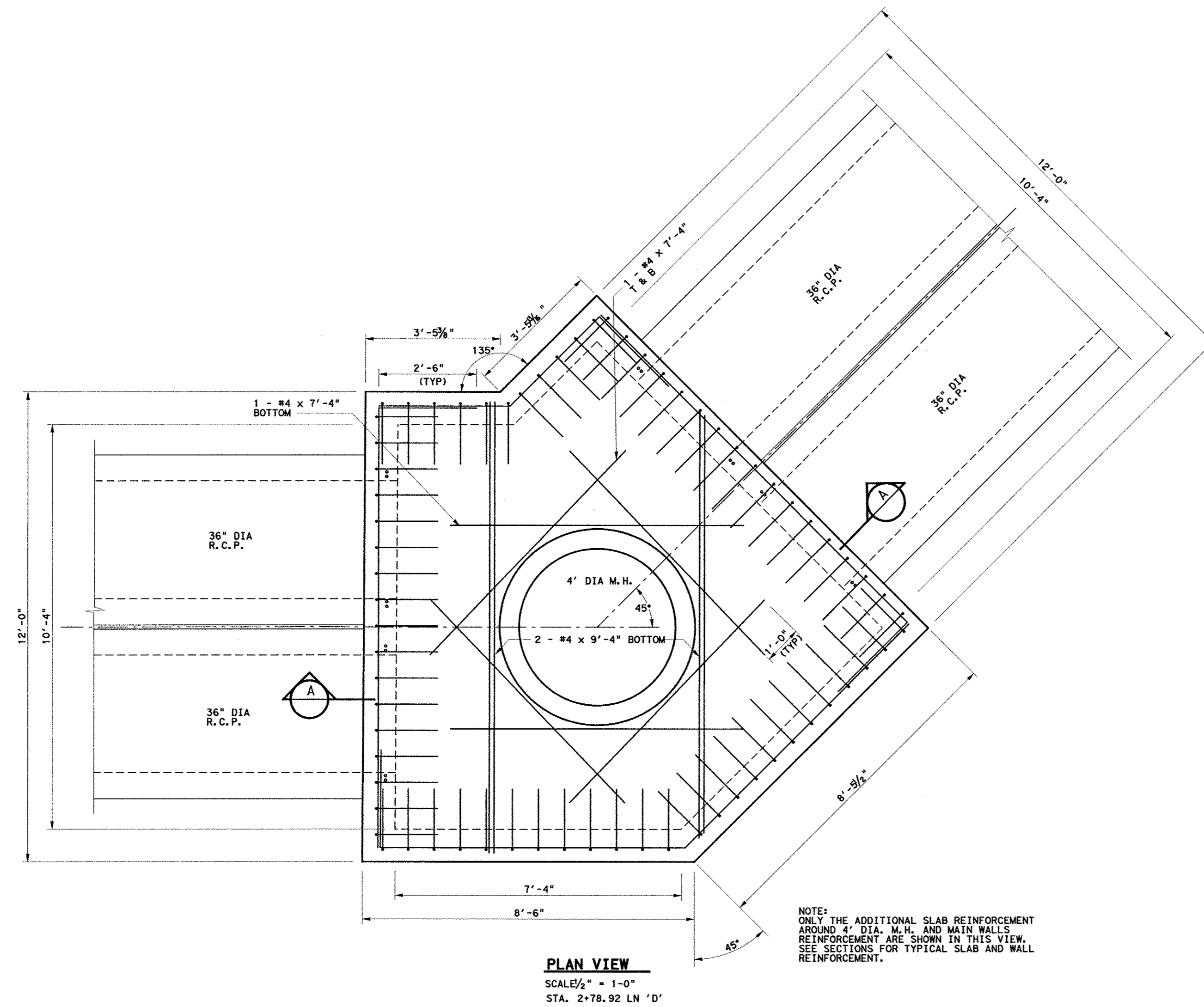
**Keller Springs Lofts**  
**Loft Apartments in Addison**  
 Town of Addison, Texas

**JUNCTION STRUCTURE DETAILS**

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 DESIGN: KHA  
 DRAWN: KHA  
 CHECKED: KHA  
 KHA NO.: 064362003  
 CITY NO.:

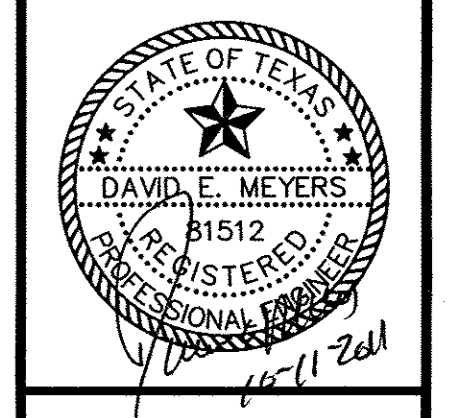


NOTE: SEE SHEET C15 FOR GENERAL NOTES.



Kimley-Horn and Associates, Inc.  
  
 1700 W. Loop West, Suite 300  
 Dallas, TX 75201-2878  
 P.O. Box 138  
 Dallas, TX 75201-0138

No.	Revision	Date



**Keller Springs Lofts**  
**Loft Apartments in Addison**  
 Town of Addison, Texas

**JUNCTION STRUCTURE DETAILS**

DATE:	OCTOBER 11, 2011
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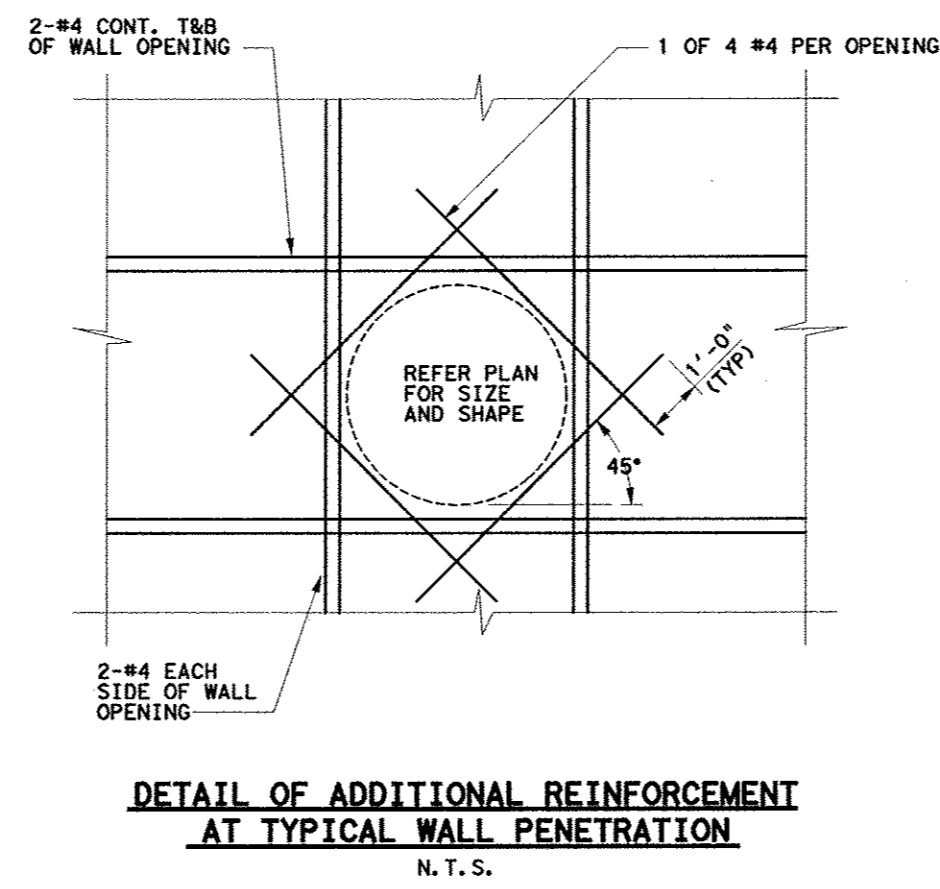
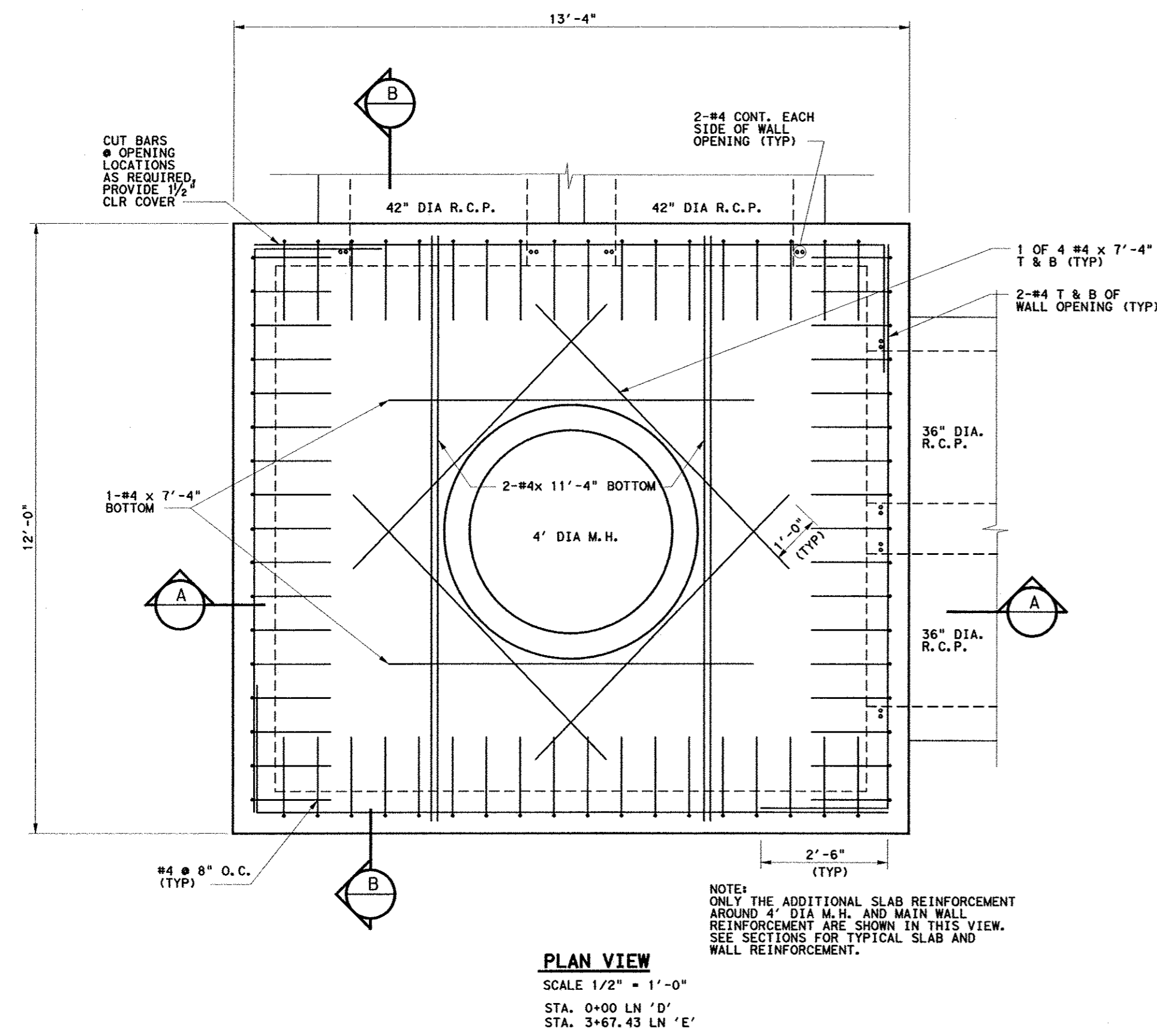


**Keller Springs Lofts**  
Loft Apartments in Addison  
Town of Addison, Texas

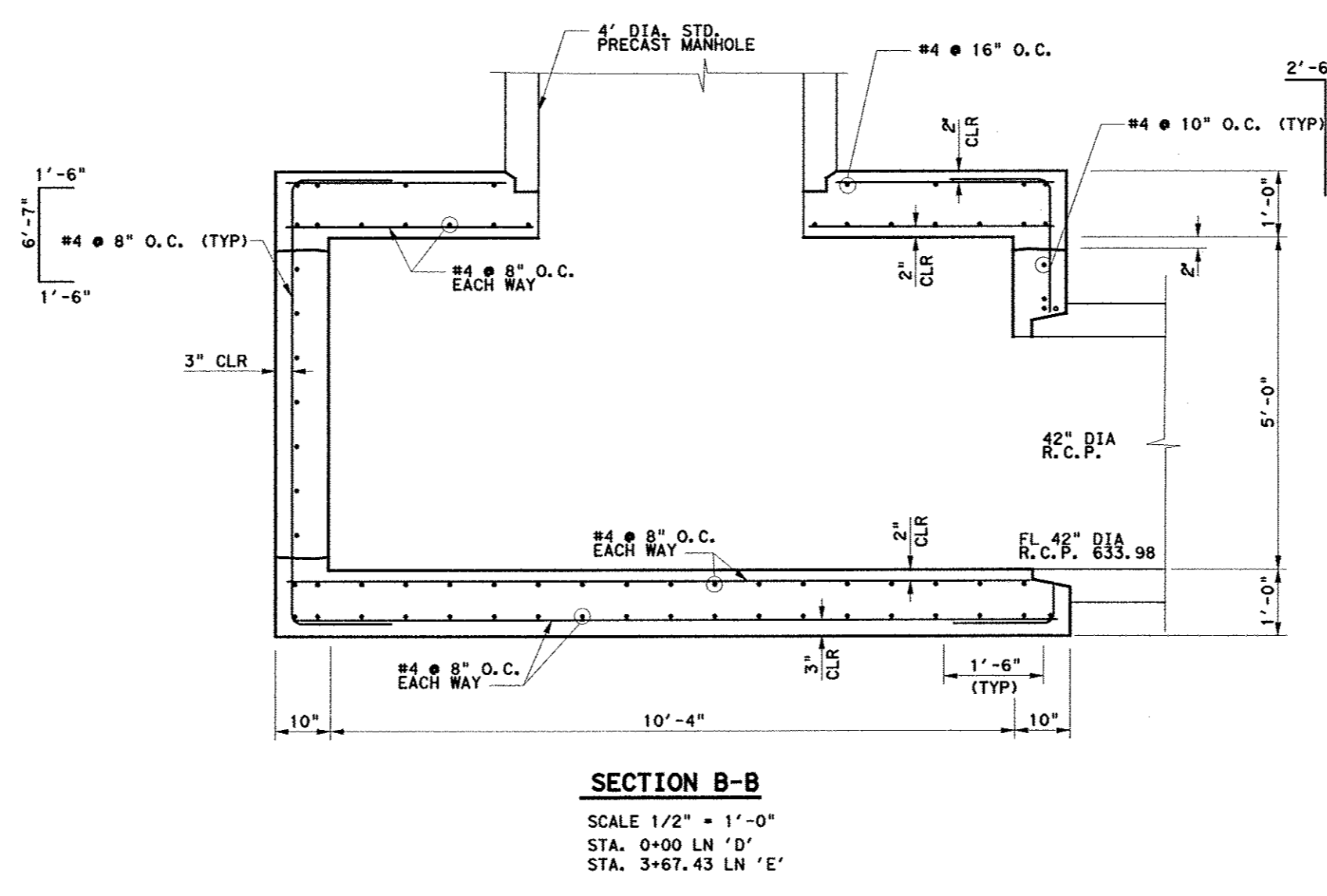
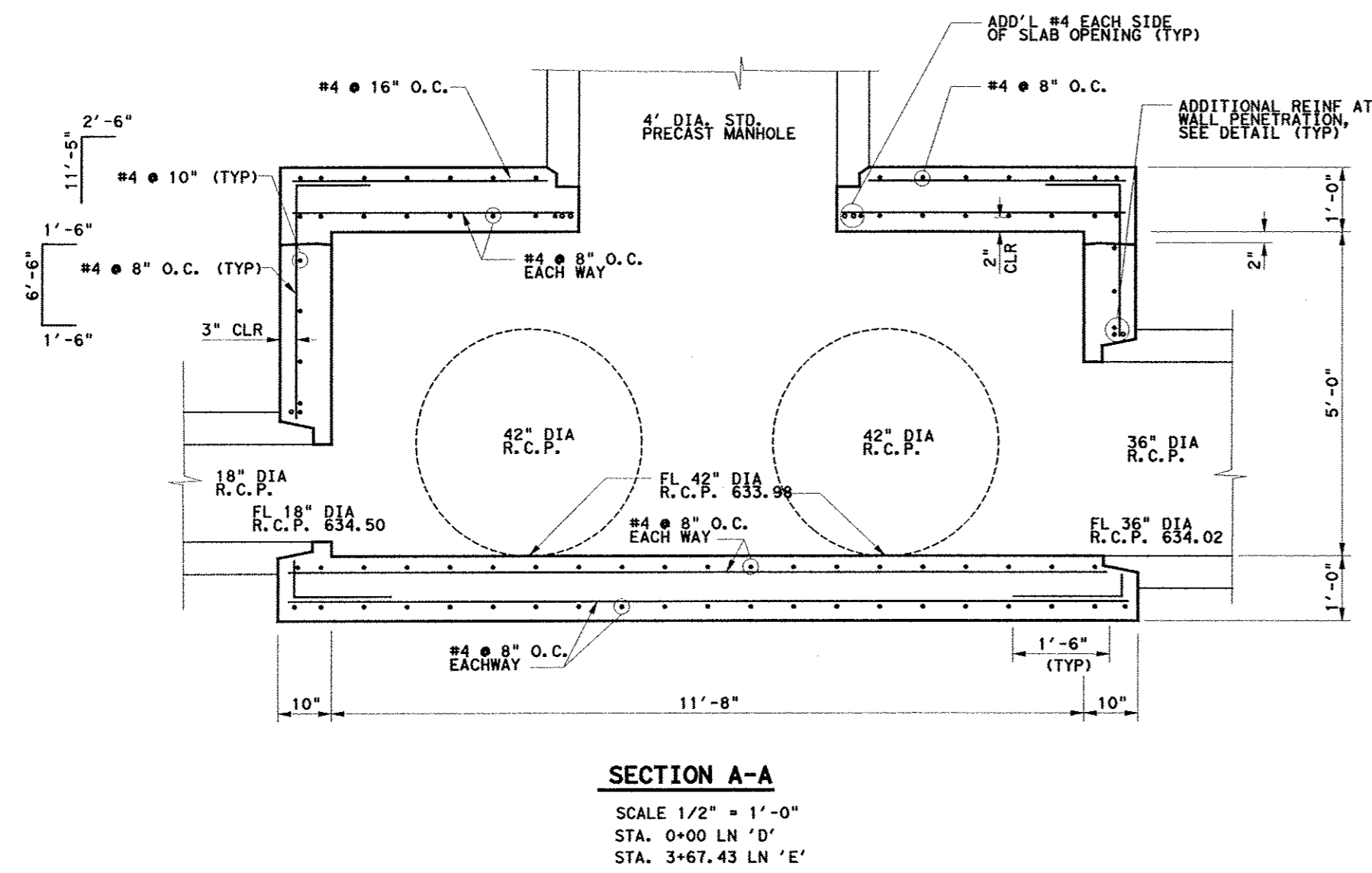
**JUNCTION STRUCTURE  
DETAILS**

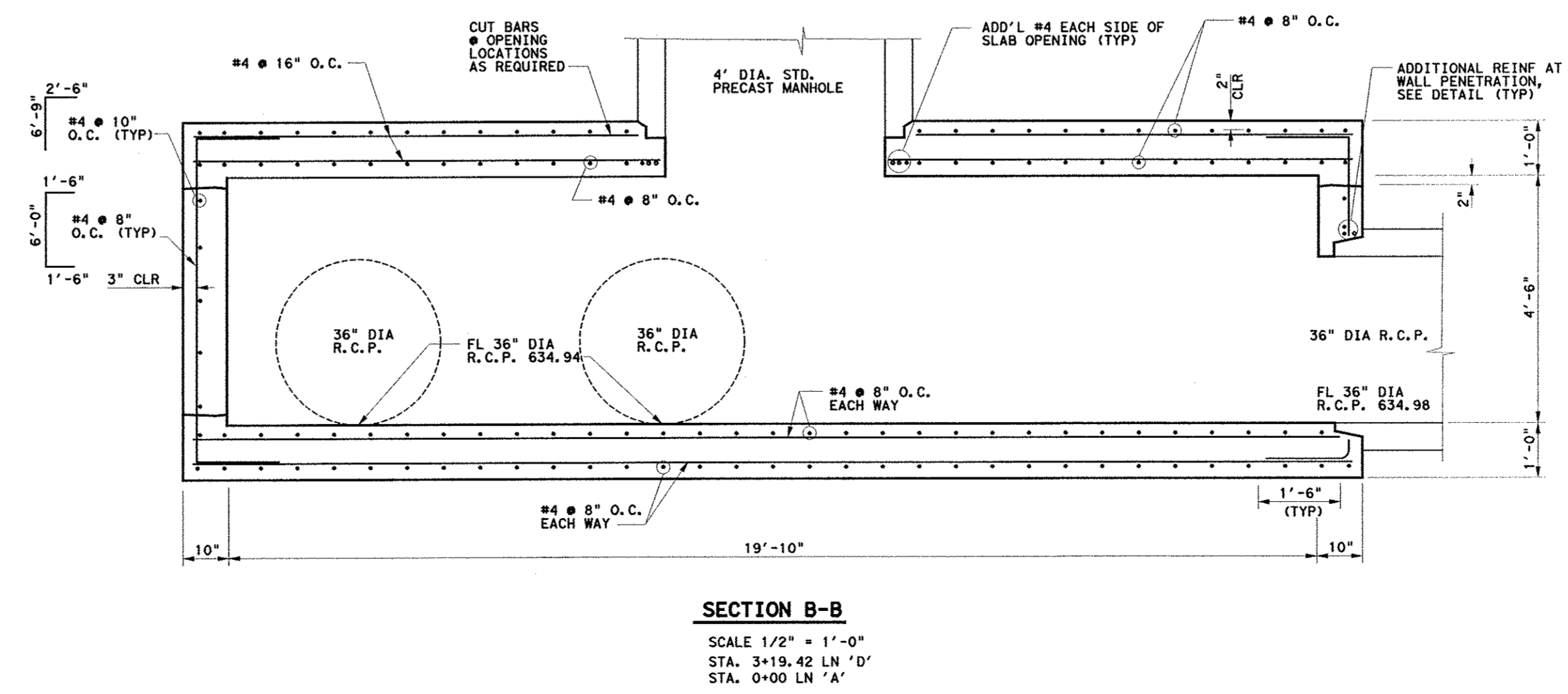
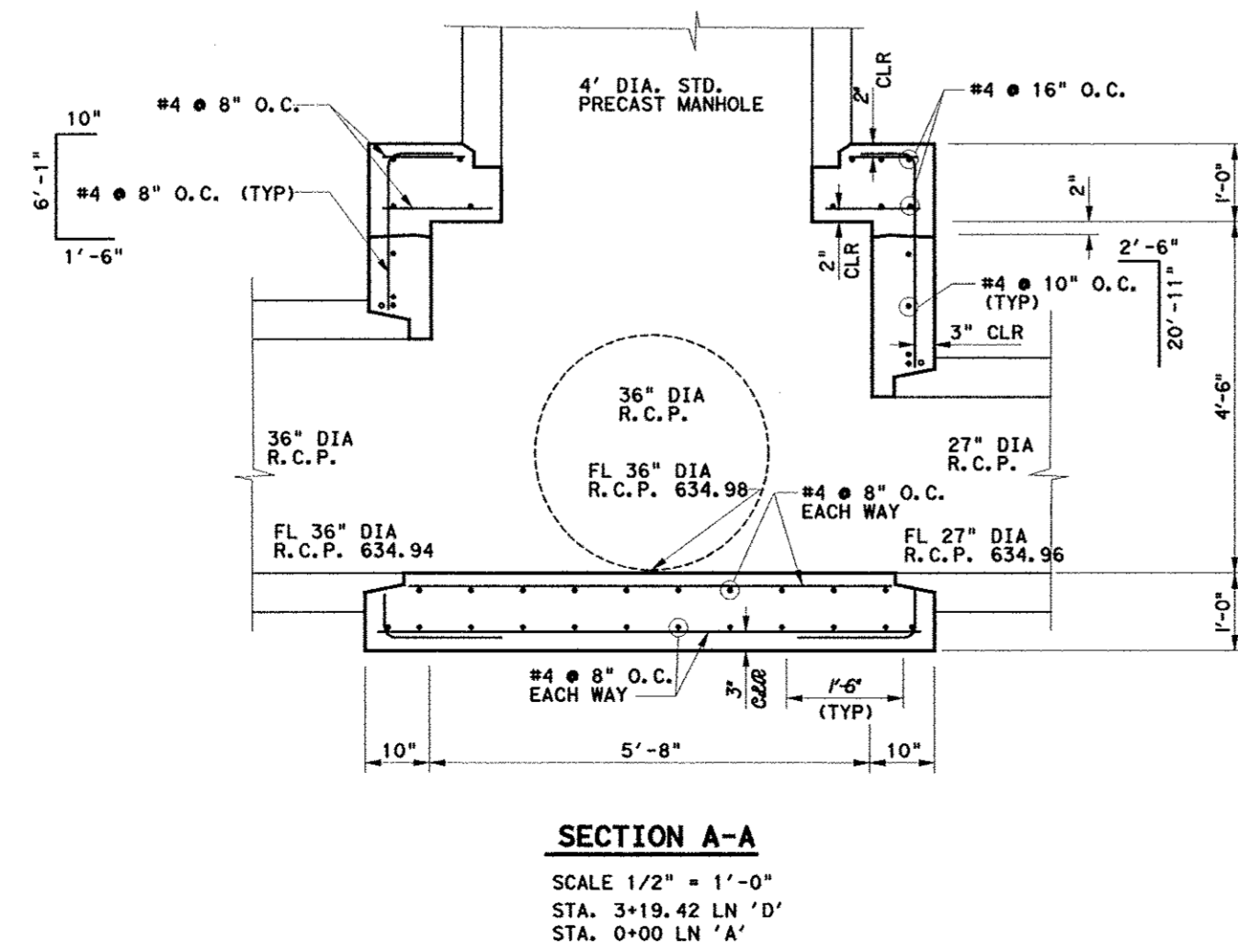
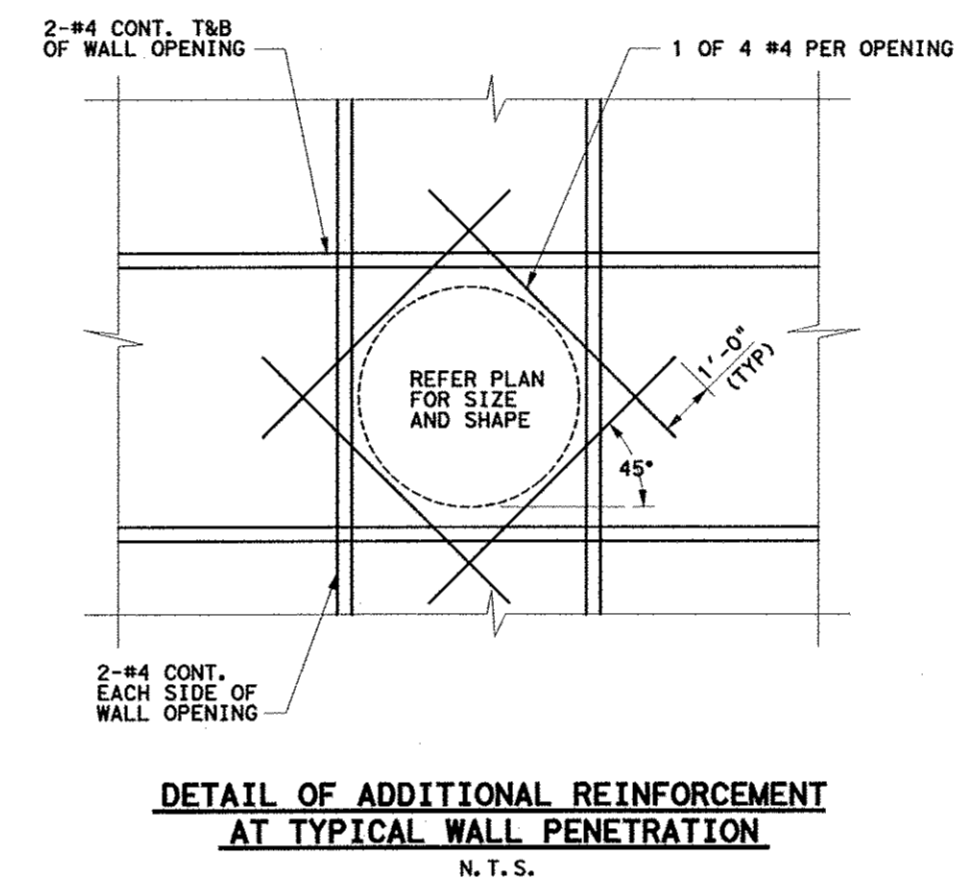
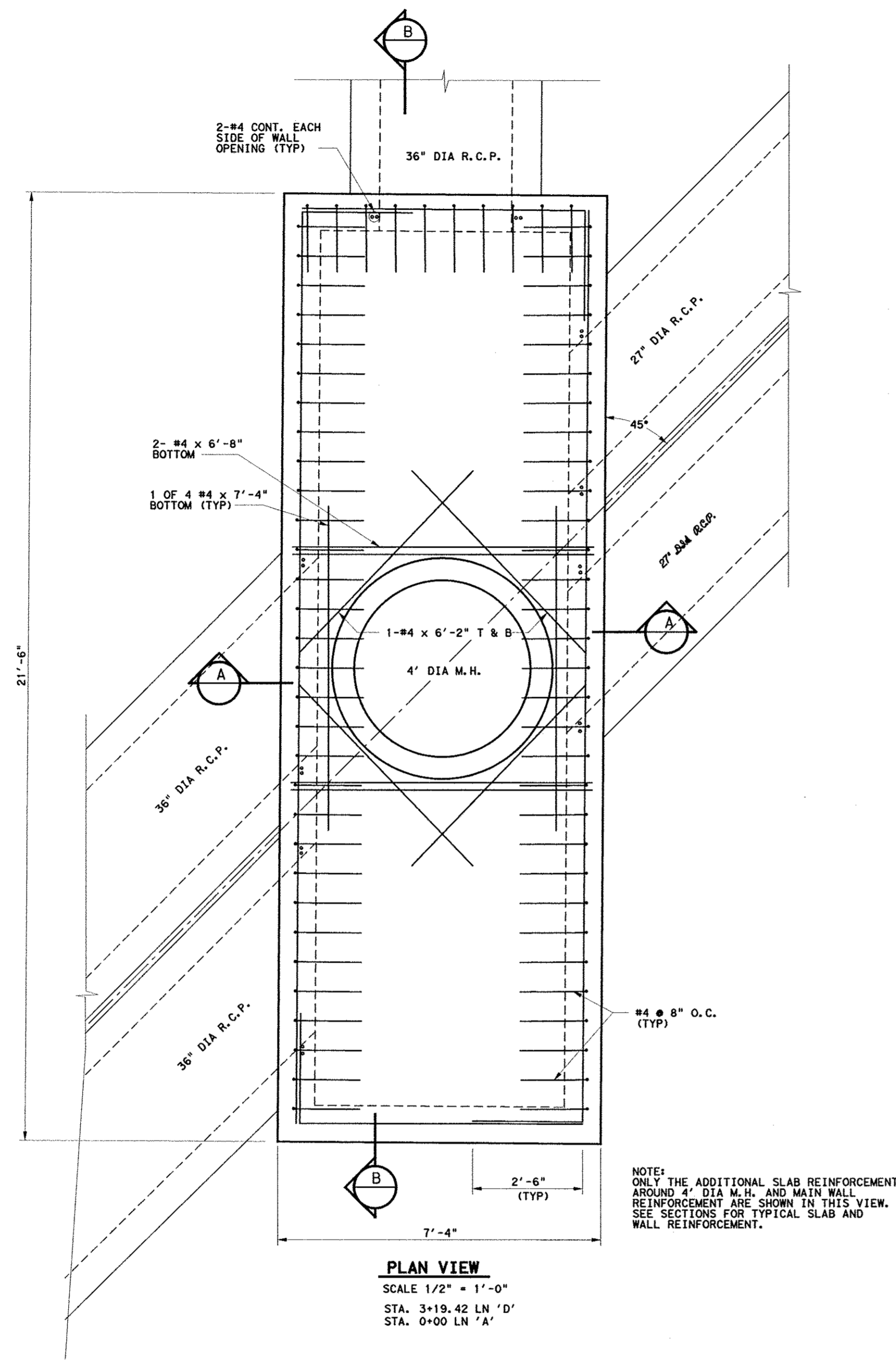
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DESIGN: KHA  
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CHECKED: KHA  
KHA NO.: 064362003  
CITY NO.:

SHEET  
**C17**



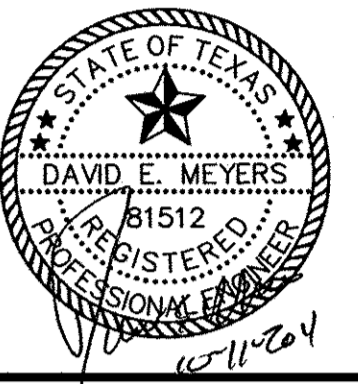
NOTE: SEE SHEET C15 FOR GENERAL NOTES.





NOTE: SEE SHEET C15 FOR GENERAL NOTES.

Kimley-Horn and Associates, Inc.  
1000 N. GULF Fwy., Suite 200  
Houston, TX 77060-9888  
Tel: 281-416-7700  
Fax: 281-416-7701

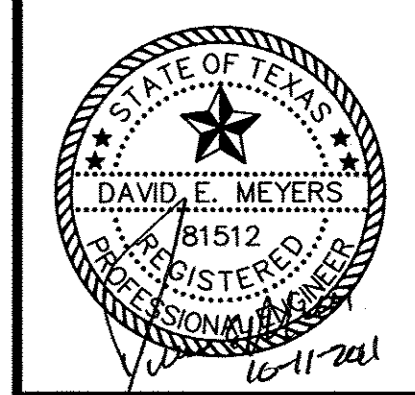


**Keller Springs Lofts**  
**Loft Apartments in Addison**  
Town of Addison, Texas

**JUNCTION STRUCTURE**  
**DETAILS**

DATE: OCTOBER 11, 2011  
DESIGN: KHA  
DRAWN: KHA  
CHECKED: KHA  
KHA NO.: 064362003  
CITY NO.:

SHEET  
**C18**

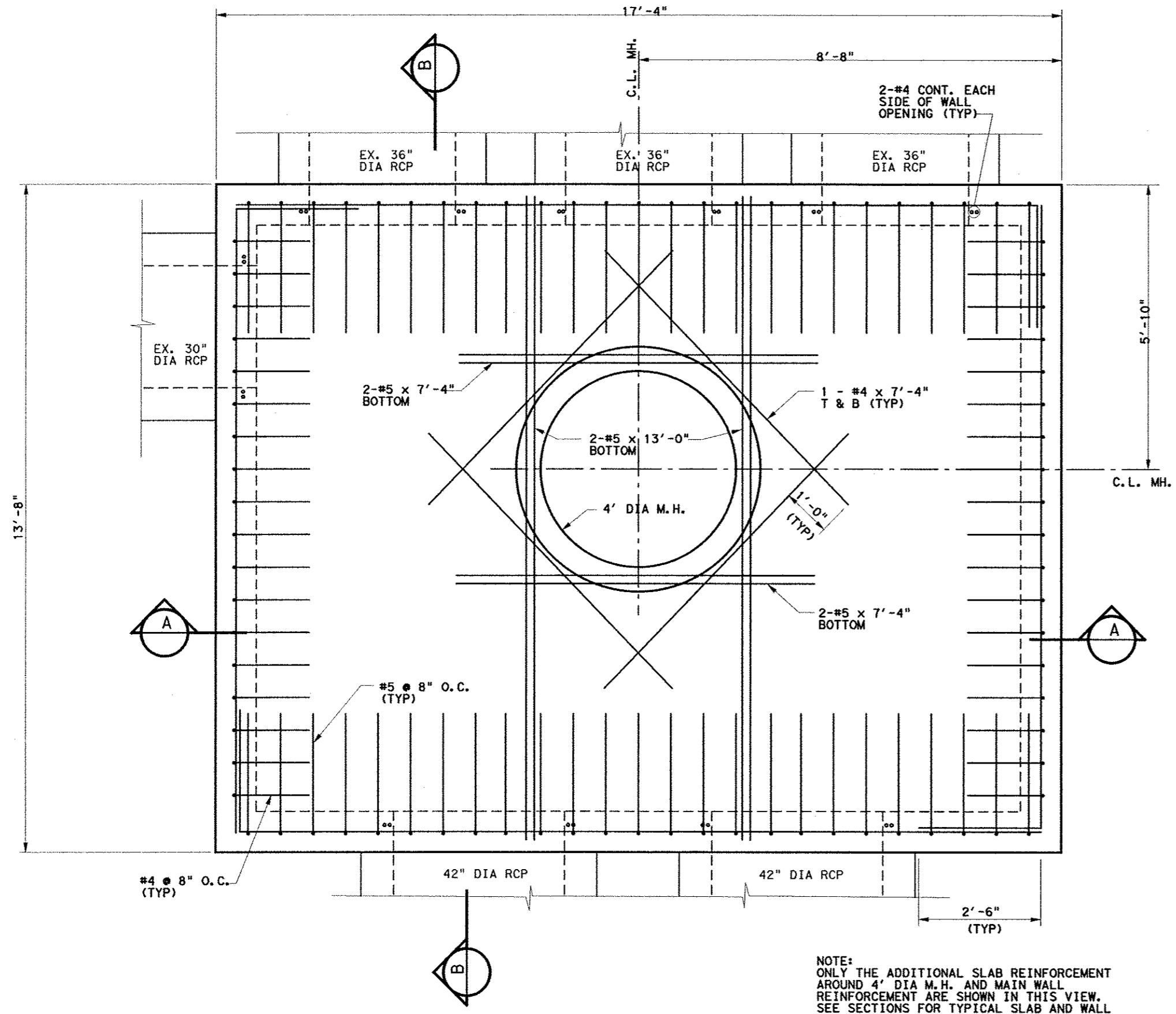


**Keller Springs Lofts**  
Loft Apartments in Addison  
Town of Addison, Texas

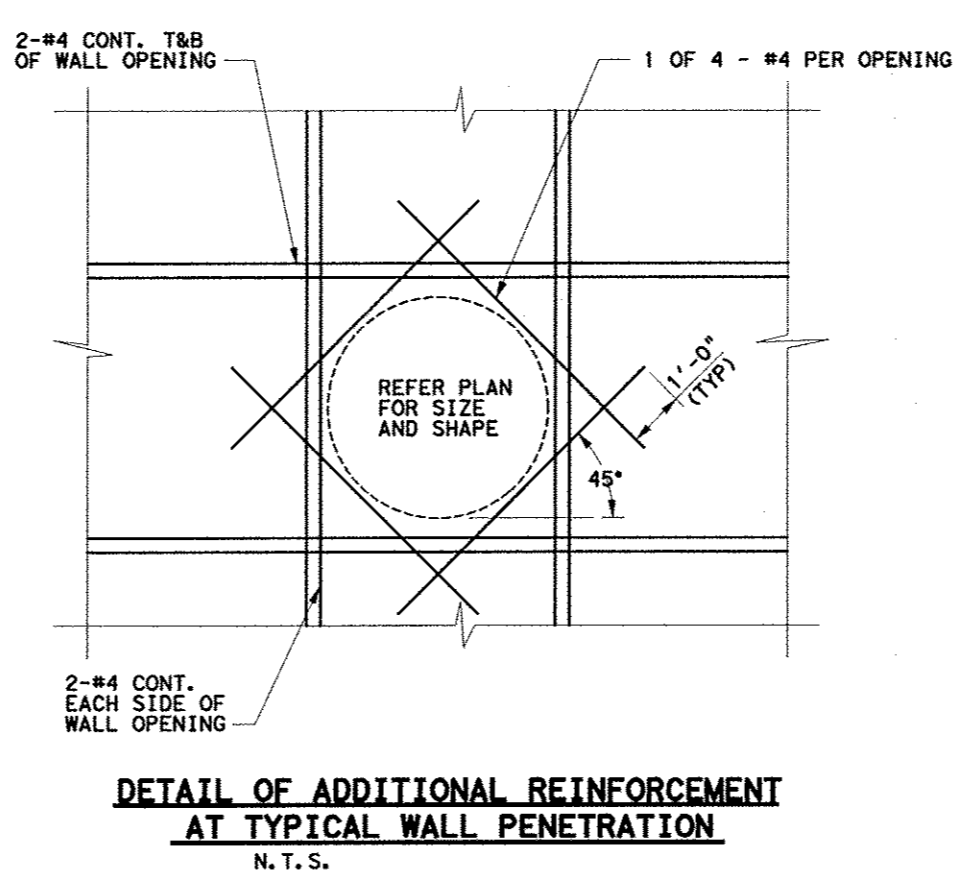
**JUNCTION STRUCTURE  
DETAILS**

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CITY NO.:

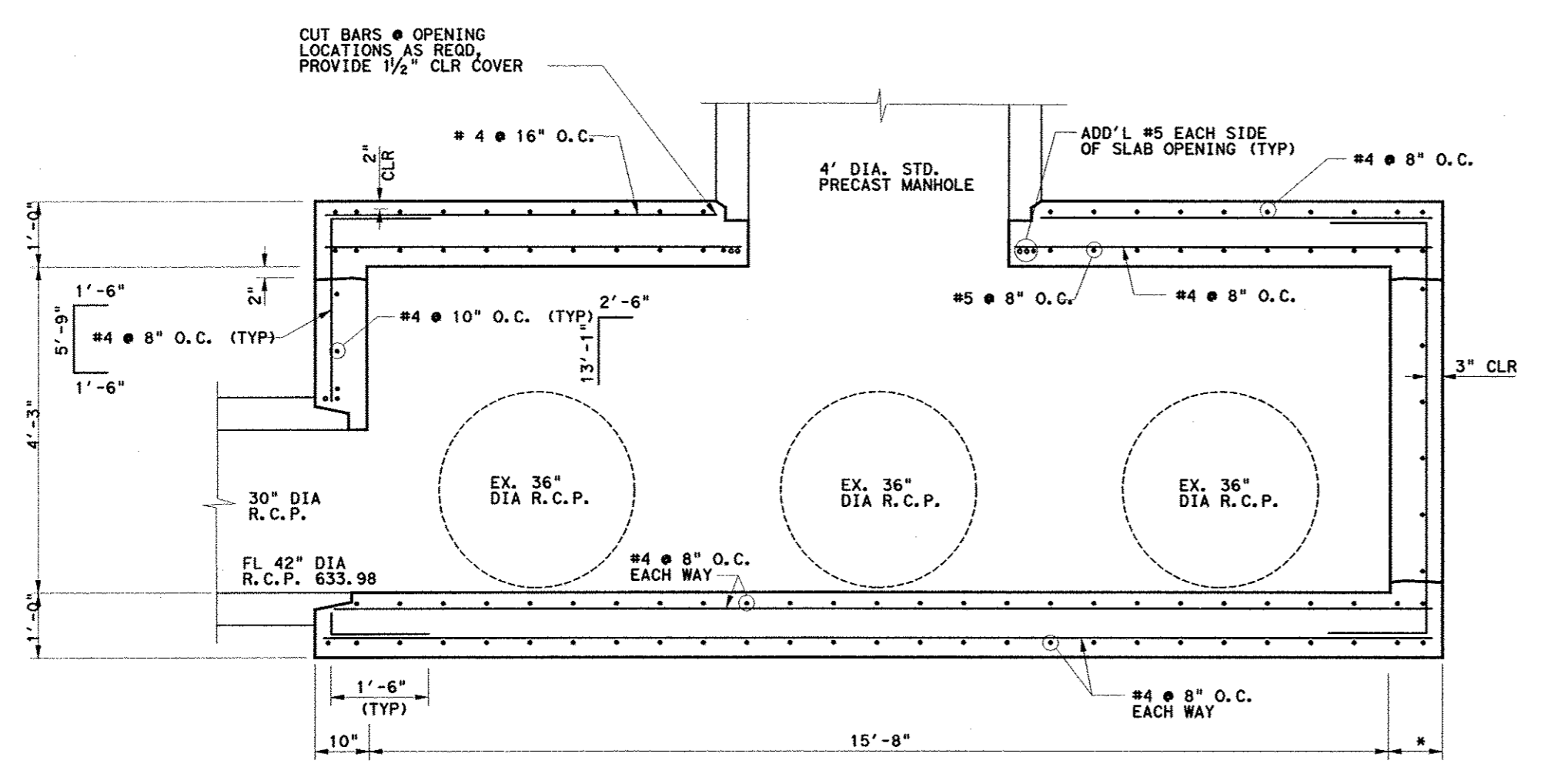
NOTE: SEE SHEET C15 FOR GENERAL NOTES.



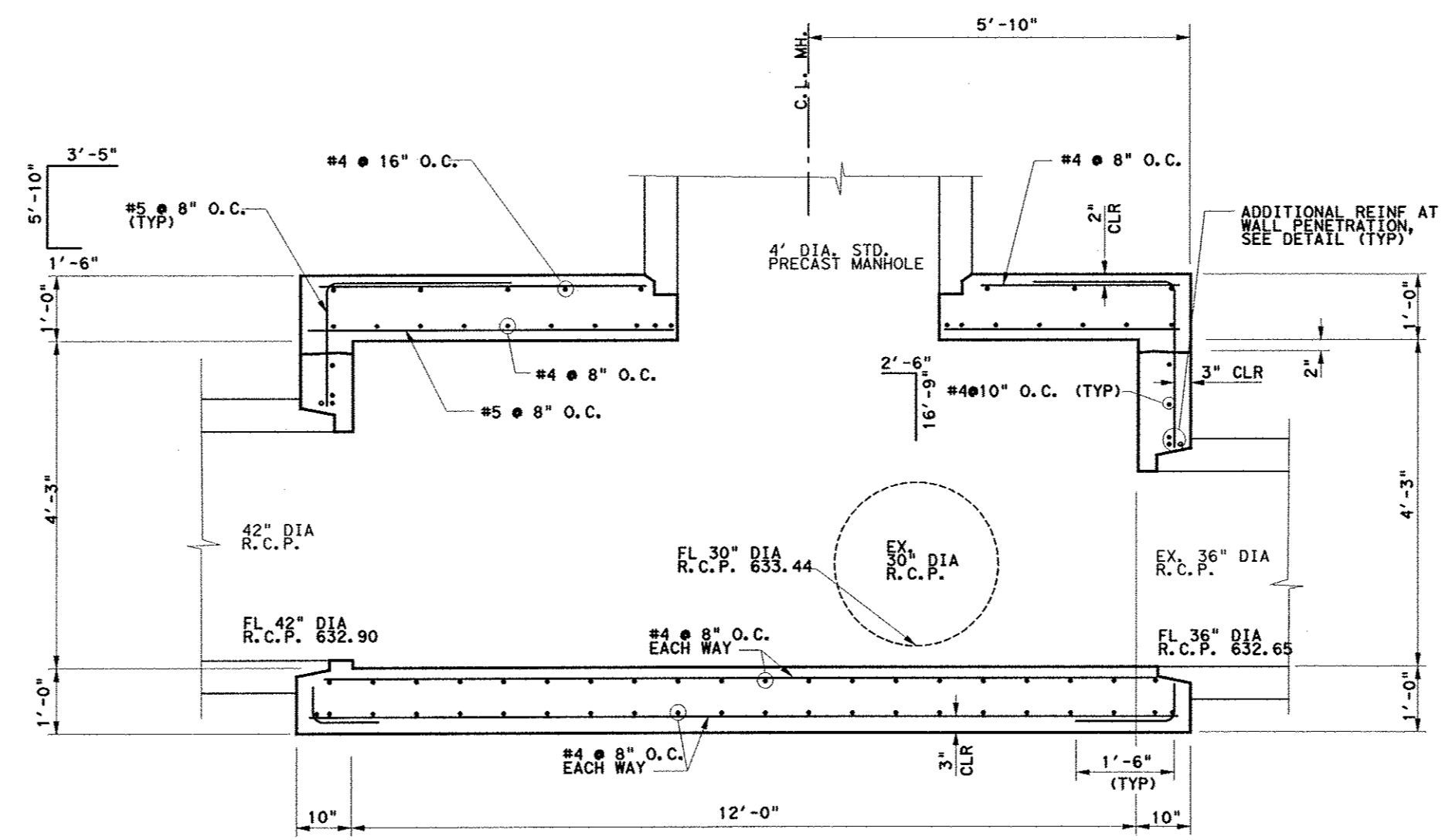
**PLAN VIEW**  
SCALE 1/4" = 1'-0"  
STA. 0+00 LN 'E'



**DETAIL OF ADDITIONAL REINFORCEMENT  
AT TYPICAL WALL PENETRATION**  
N.T.S.

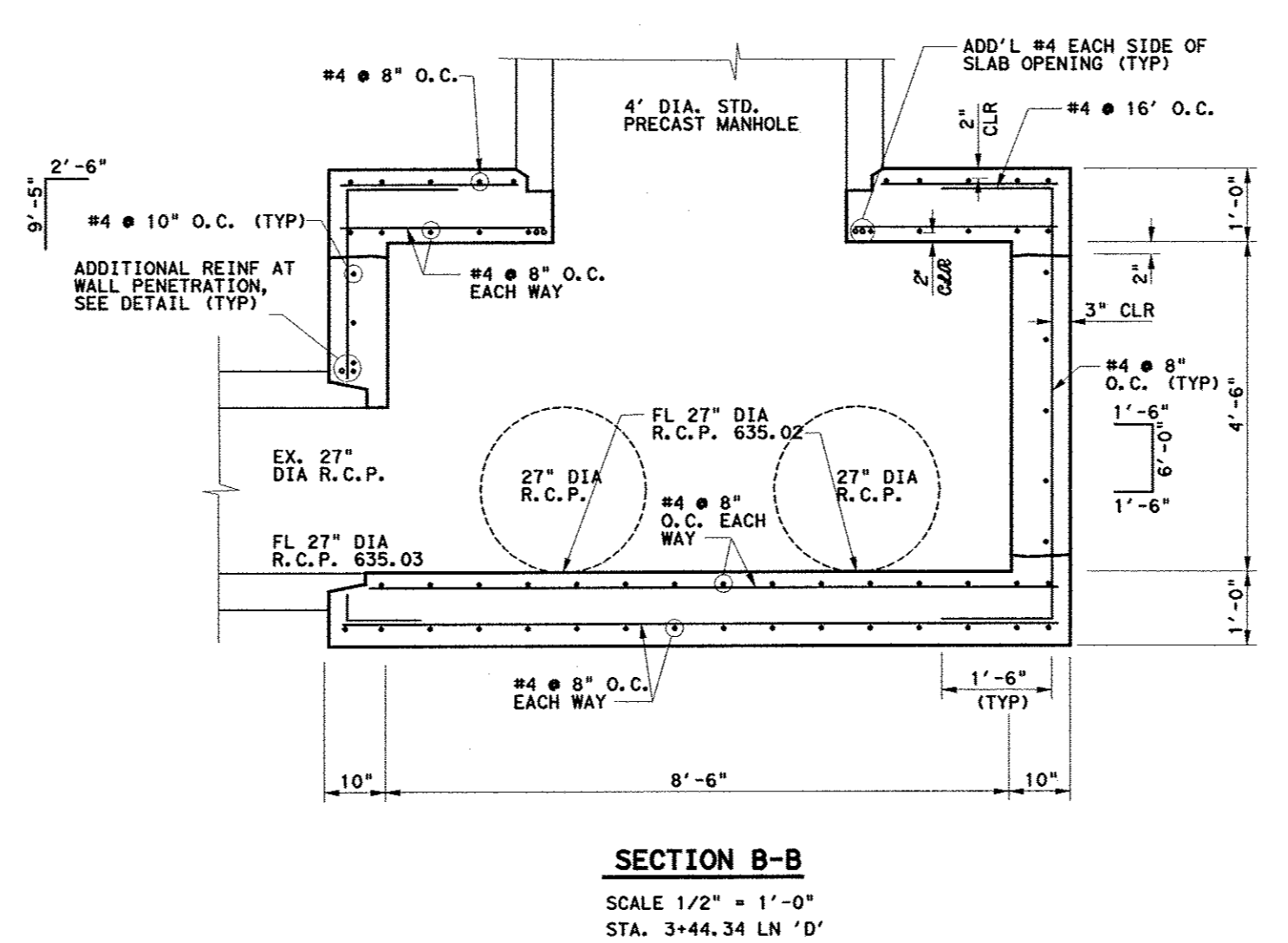
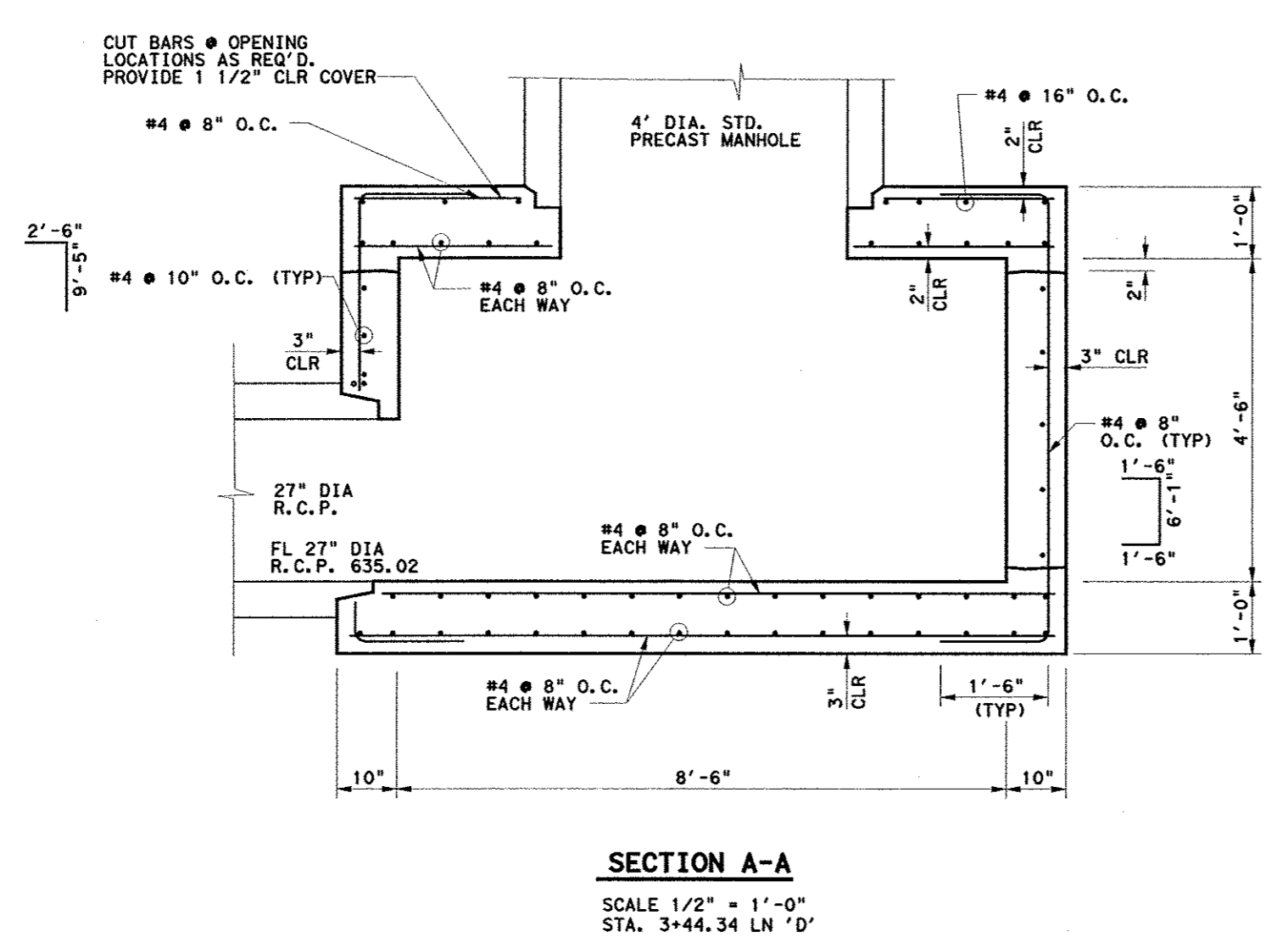
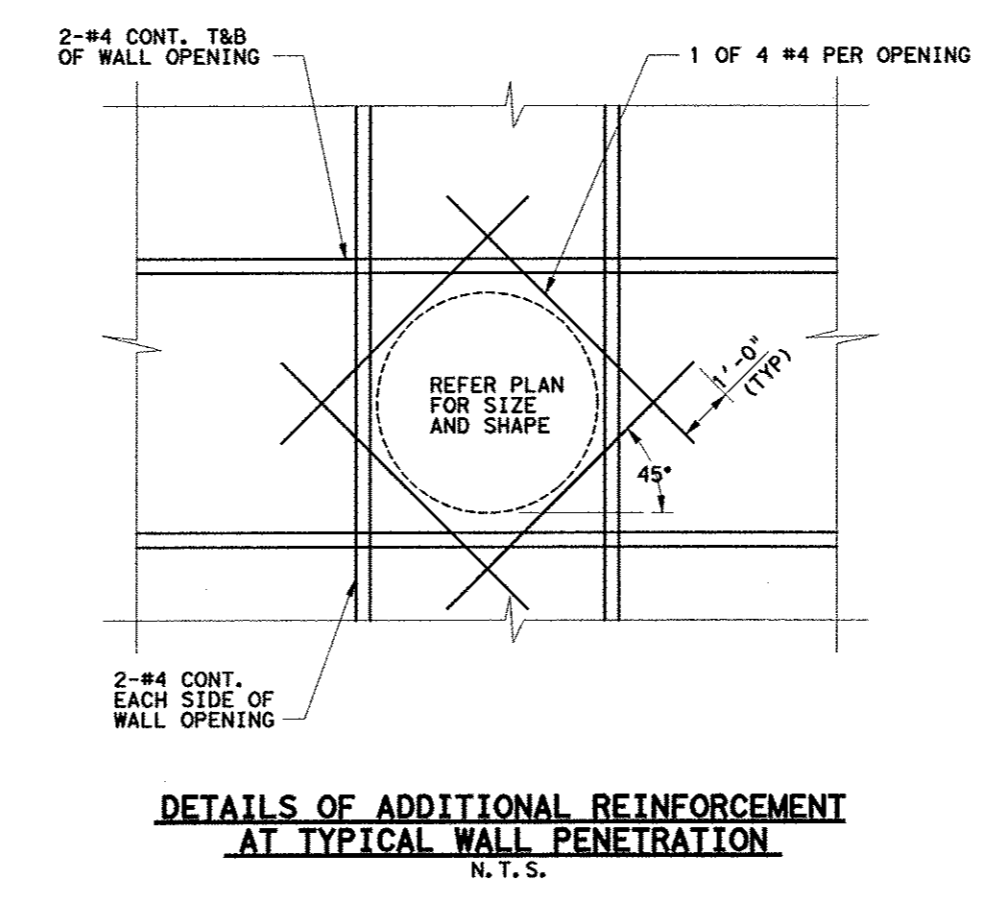
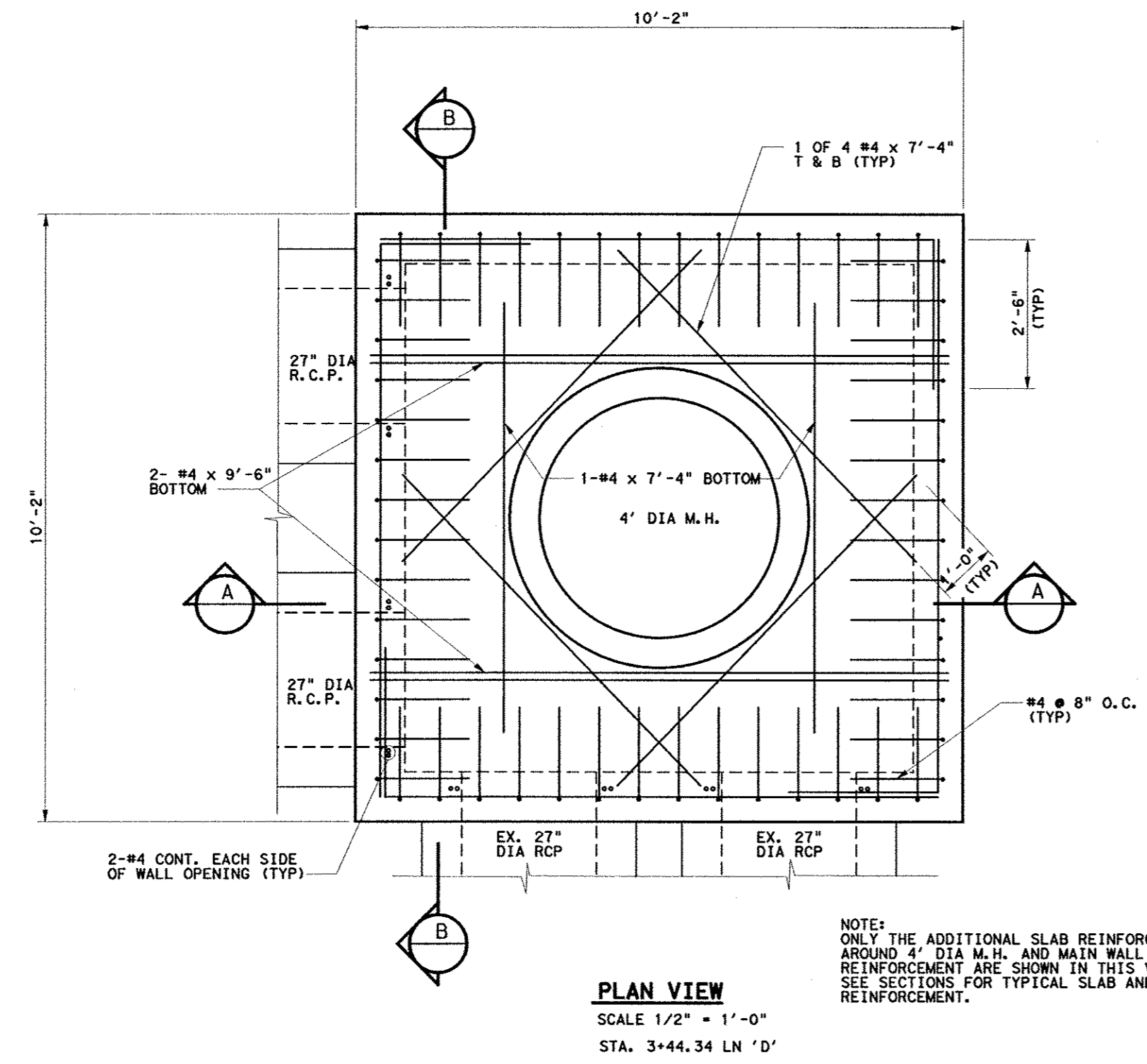


**SECTION A-A**  
SCALE 1/2" = 1'-0"  
STA. 0+00 LN 'E'



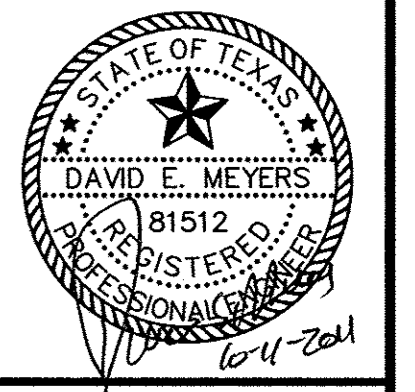
**SECTION B-B**  
SCALE 1/2" = 1'-0"  
STA. 0+00 LN 'E'

NOTE: SEE SHEET C15 FOR GENERAL NOTES.



Kimley-Horn and Associates, Inc.

No.	Revision	Date

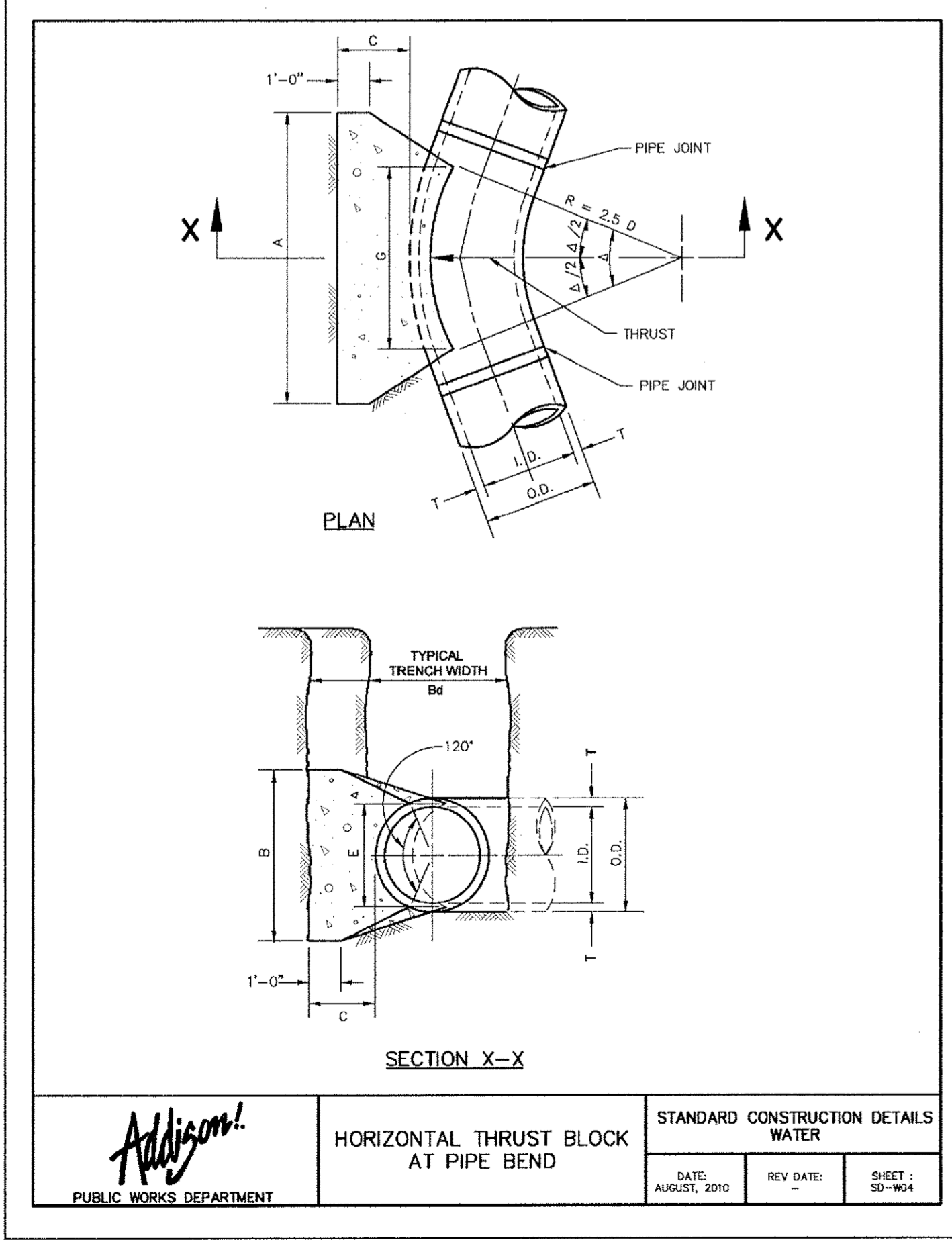
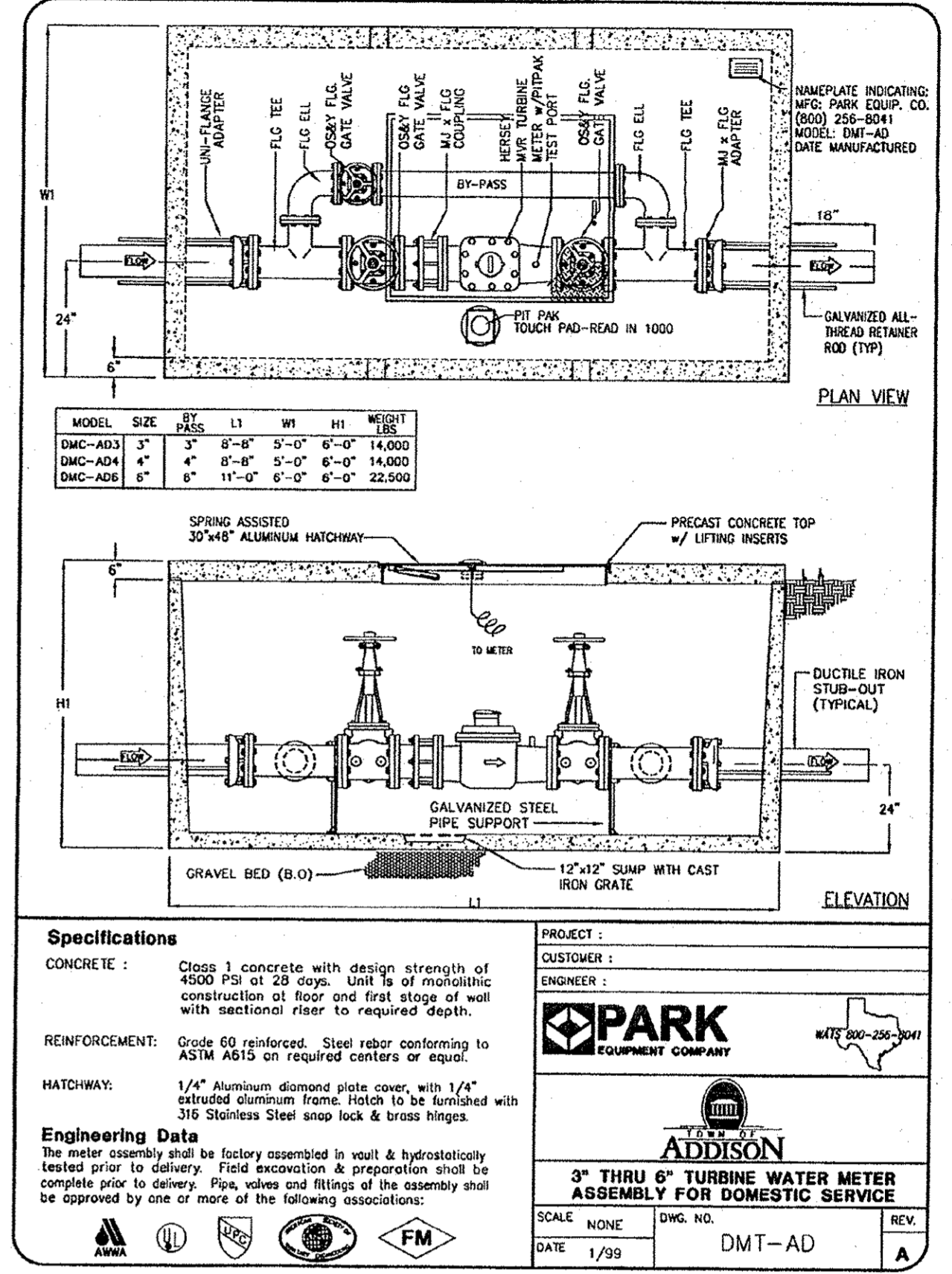
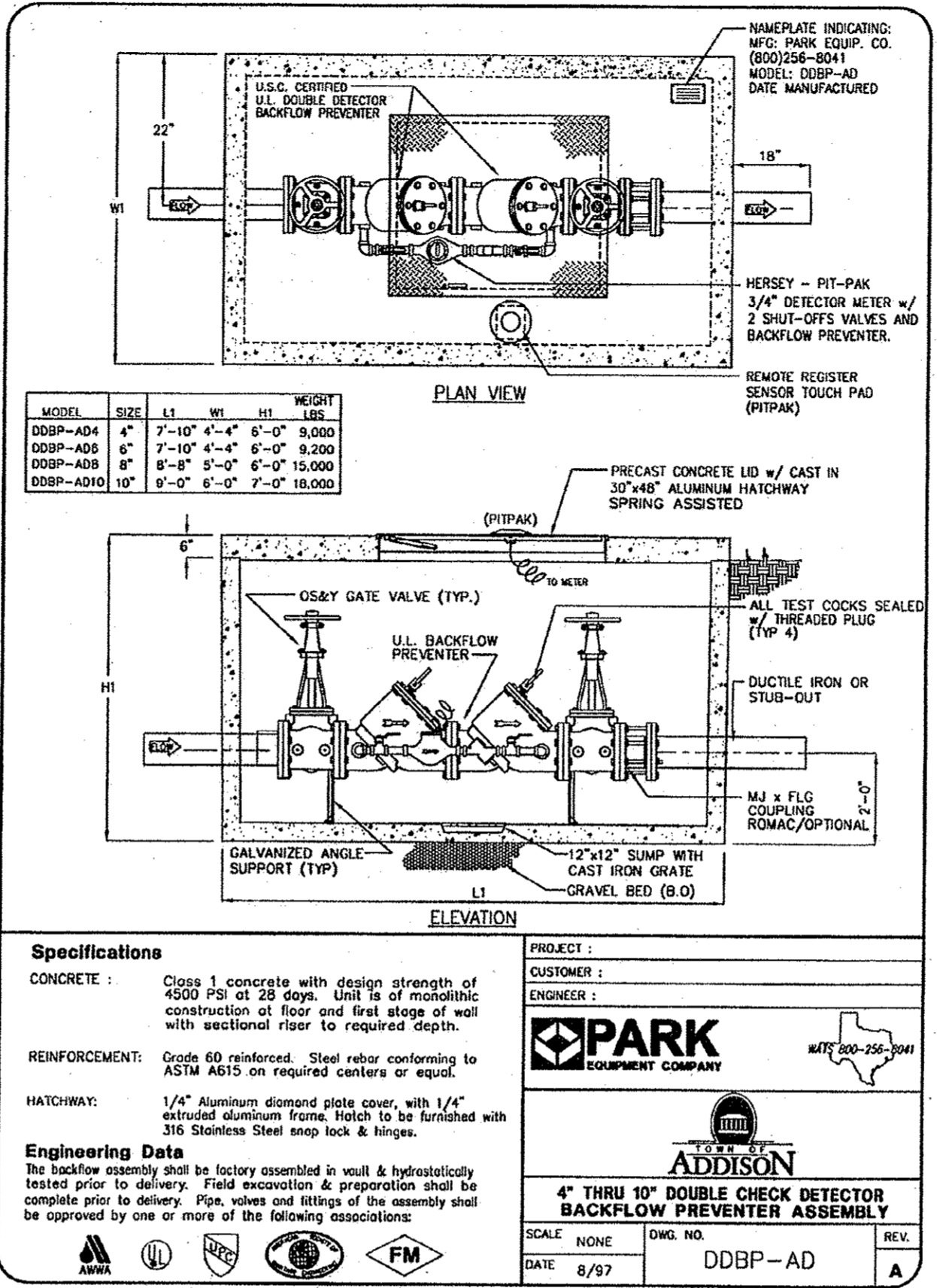
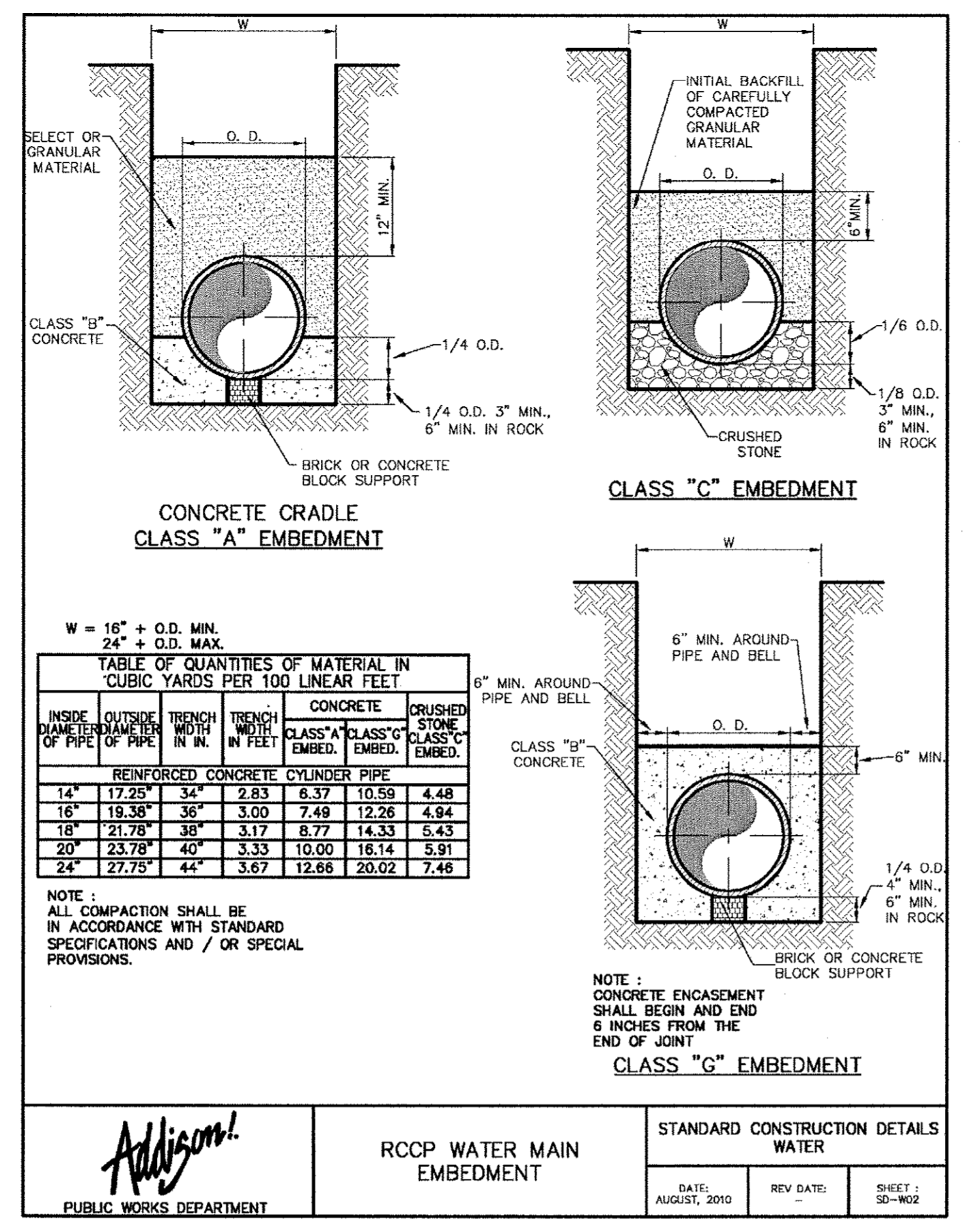
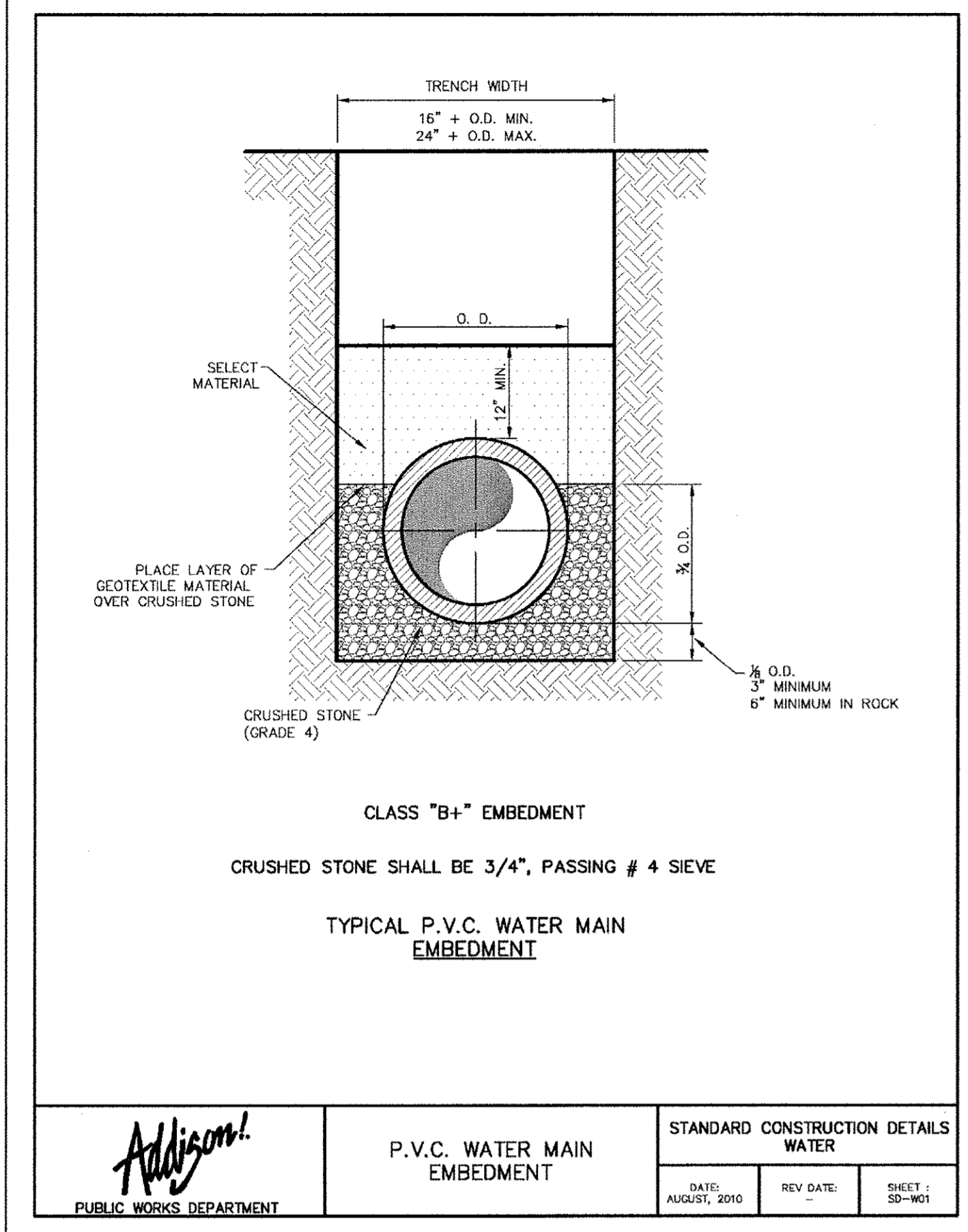


**Keller Springs Lofts**  
Loft Apartments in Addison  
Town of Addison, Texas

**JUNCTION STRUCTURE DETAILS**

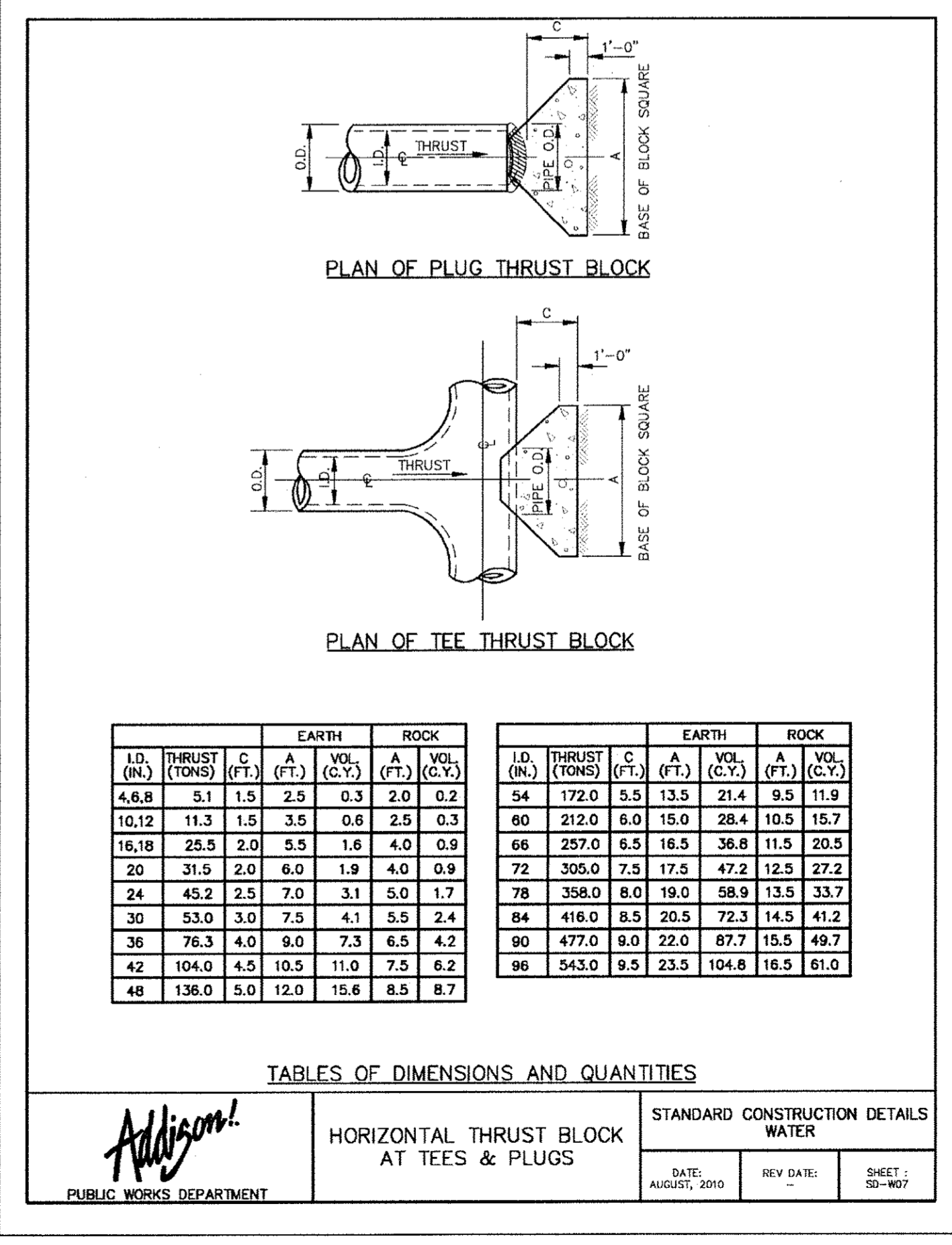
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CITY NO.:	

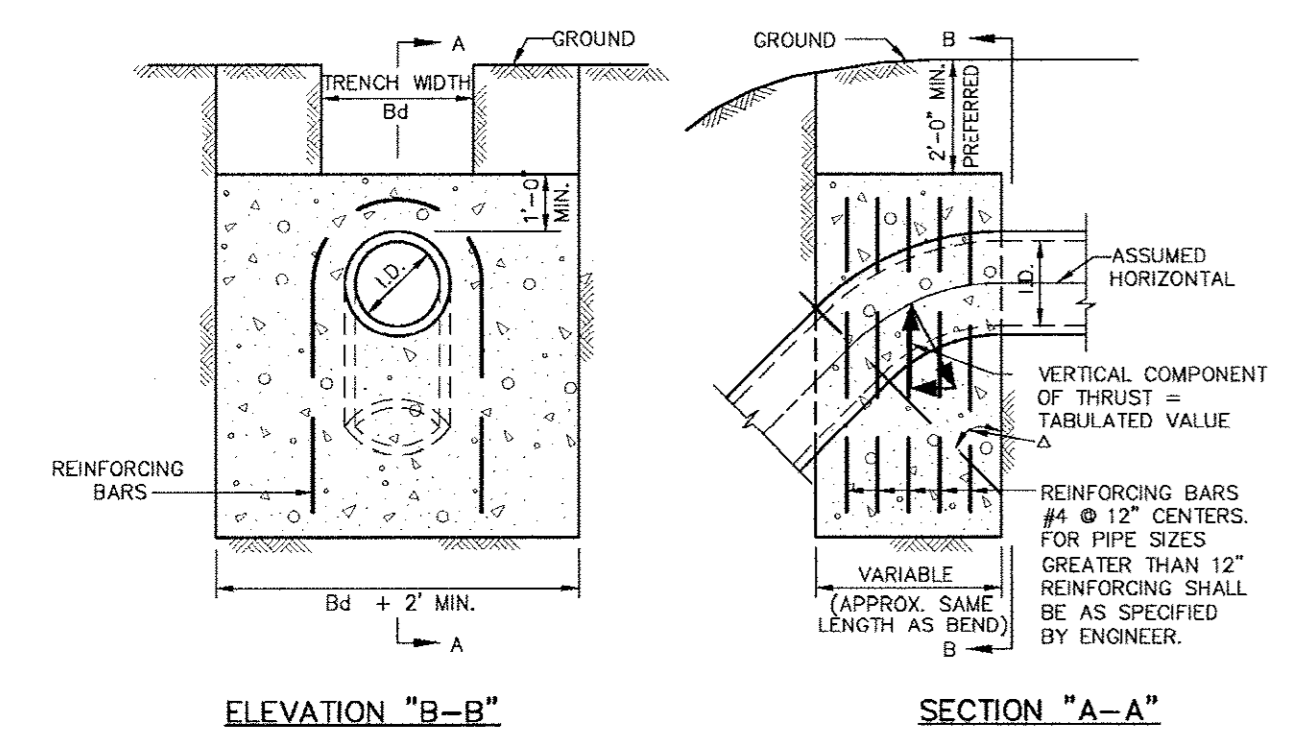
SHEET  
**C20**



I.D. (IN.)	C (FT.)	EARTH				ROCK			
		A (FT.)	B (FT.)	VOL. (CY)	A (FT.)	B (FT.)	VOL. (CY)		
4.6,8	0.4	1.0	1.5	0.1	4.6,8	0.8	2.0	1.5	0.1
10.12	0.6	1.5	2.5	0.3	10.12	1.1	4.4	2.0	0.3
16.16	0.8	2.0	3.5	0.5	16.16	1.6	9.9	3.0	0.6
20	0.7	1.5	1.5	1.8	20	0.9	6.2	3.0	0.3
24	0.9	1.5	1.5	2.1	24	1.1	8.8	3.5	0.4
30	2.9	1.5	1.9	2.6	30	2.9	15.5	4.0	1.3
36	4.5	1.5	2.3	3.3	36	4.5	23.0	4.5	2.1
42	5.0	1.8	2.6	3.8	42	5.0	26.0	5.0	2.8
48	5.5	2.0	3.0	4.3	48	5.5	30.0	5.5	3.5
54	6.0	2.3	3.4	4.8	54	6.0	34.0	6.0	4.2
60	6.5	2.5	3.8	5.3	60	6.5	38.0	6.5	5.0
66	6.8	2.8	4.1	5.7	66	6.8	42.0	6.8	5.7
72	7.5	3.0	4.5	6.3	72	7.5	46.0	7.5	6.5
78	7.5	3.5	4.9	6.7	78	7.5	50.0	7.5	7.2
84	8.0	3.5	5.3	7.2	84	8.0	54.0	8.0	8.0
90	8.5	3.8	5.6	7.7	90	8.5	58.0	8.5	8.8
96	9.0	4.0	6.0	8.2	96	9.0	62.0	9.0	9.5

I.D. (IN.)	C (FT.)	EARTH				ROCK				
		A (FT.)	B (FT.)	VOL. (CY)	A (FT.)	B (FT.)	VOL. (CY)			
4.6,8	1.0	2.6	2.0	1.5	0.2	4.6,8	1.5	3.9	2.0	0.2
10.12	1.5	5.9	2.5	2.5	0.3	10.12	2.2	8.7	3.5	0.5
16.16	2.2	13.2	3.5	4.0	0.8	16.16	3.2	19.5	4.5	1.2
20	2.4	16.3	4.5	4.0	1.0	20	3.6	24.1	5.5	1.5
24	2.9	23.4	6.0	4.0	1.4	24	4.3	34.8	8.0	2.3
30	3.6	27.5	6.5	5.0	1.9	30	5.4	40.6	8.5	3.2
36	4.4	39.5	7.0	6.0	3.4	36	6.5	58.5	10.0	6.0
42	5.1	53.8	8.0	7.0	5.1	42	7.5	79.6	11.5	7.0
48	5.8	70.3	9.0	8.0	7.4	48	8.6	104.0	13.0	8.0
54	6.5	89.0	10.0	9.0	10.3	54	9.7	131.5	15.0	9.0
60	7.3	110.0	11.0	10.0	13.9	60	10.7	162.4	16.5	10.0
66	8.0	132.9	12.5	11.0	16.9	66	11.8	196.5	18.0	11.0
72	8.7	158.2	13.5	12.0	20.0	72	12.8	233.0	19.5	12.0
78	9.4	185.6	14.5	13.0	23.0	78	13.8	274.5	21.5	13.0
84	10.1	215.3	15.5	14.0	27.1	84	15.0	318.4	23.0	14.0
90	10.9	247.1	16.5	15.0	31.0	90	16.1	365.5	24.5	15.0
96	11.6	281.2	18.0	16.0	35.5	96	17.1	415.6	26.0	16.0





A	11.25'	22.50'	30'	45'	67.50'	90'	A
I.D. (IN.)	12	15	18	24	30	36	I.D. (IN.)
THRUST (TONS)	1.0	1.5	2.0	3.5	5.0	7.5	THRUST (TONS)
VOL. (C.Y.)	0.5	0.7	1.0	1.7	2.5	3.5	VOL. (C.Y.)
THRUST (TONS)	1.0	1.5	2.0	3.5	5.0	7.5	THRUST (TONS)
VOL. (C.Y.)	0.5	0.7	1.0	1.7	2.5	3.5	VOL. (C.Y.)
THRUST (TONS)	1.0	1.5	2.0	3.5	5.0	7.5	THRUST (TONS)
VOL. (C.Y.)	0.5	0.7	1.0	1.7	2.5	3.5	VOL. (C.Y.)

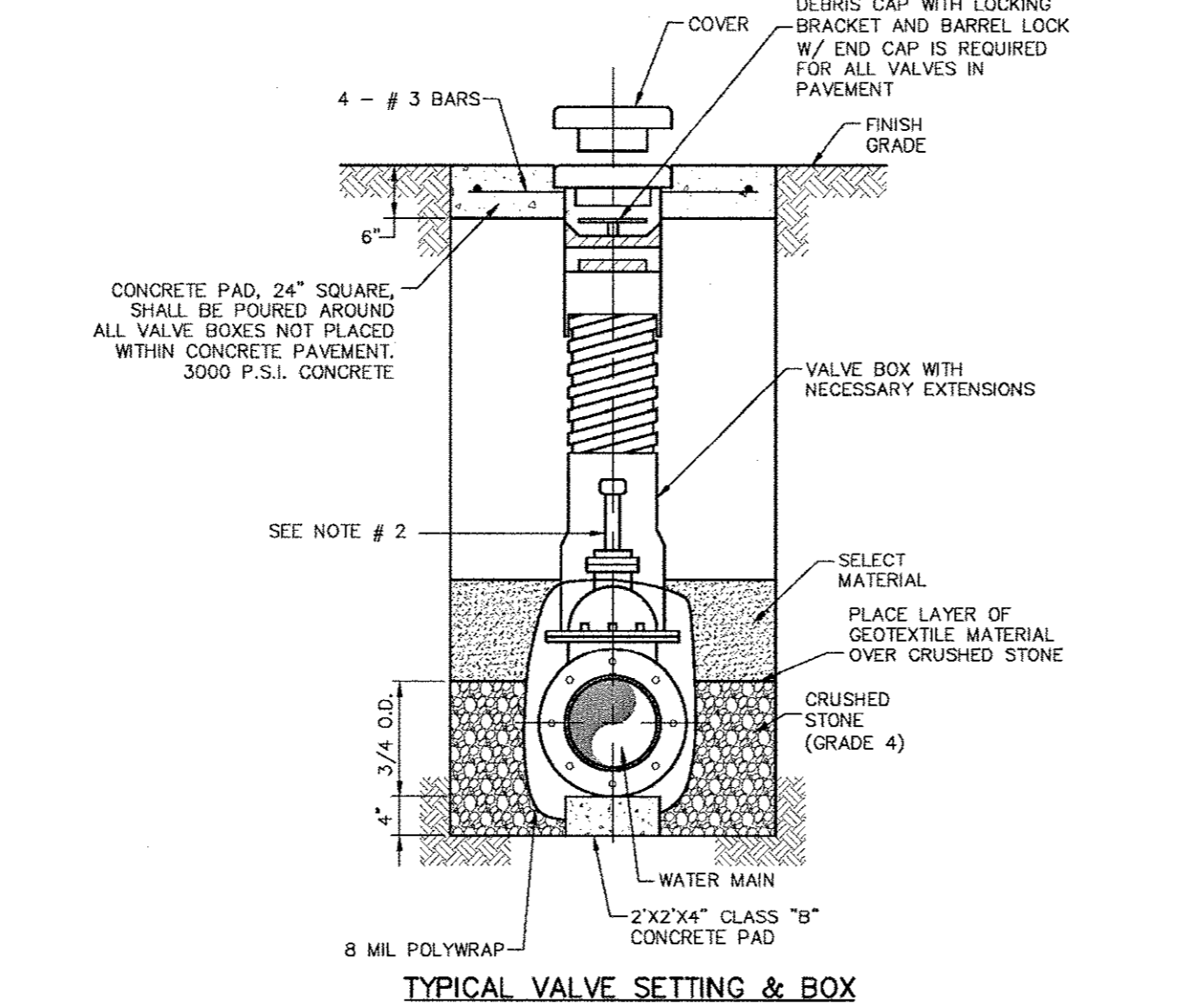
**VERTICAL THRUST BLOCK**

**Addison!**  
PUBLIC WORKS DEPARTMENT

VERTICAL THRUST BLOCK AT PIPE BEND

STANDARD CONSTRUCTION DETAILS WATER

DATE: AUGUST, 2010 REV. DATE: SHEET: SD-W08



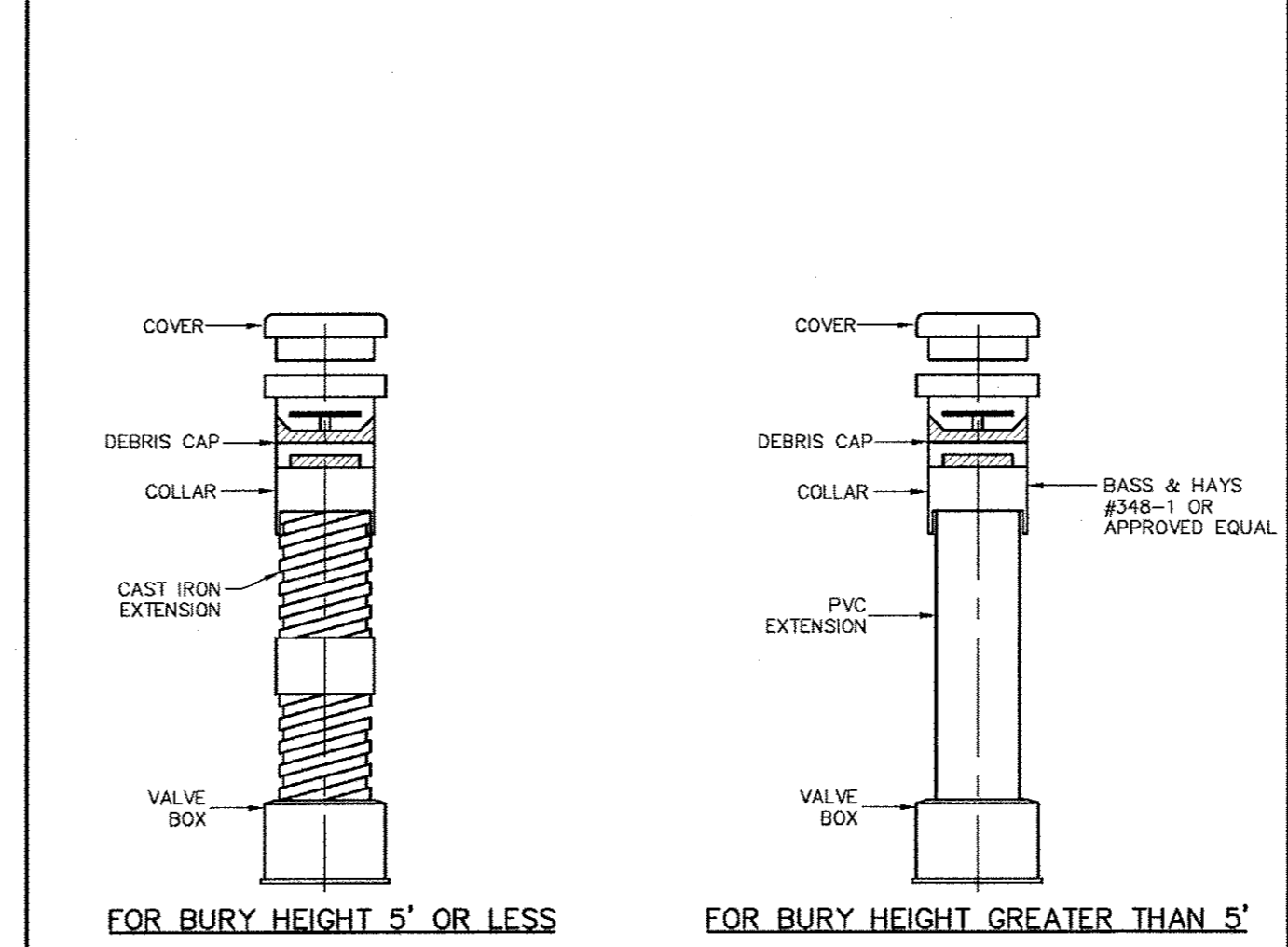
- NOTE:**
- 4"-12" R.S. GATE VALVES SHALL BE IN ACCORDANCE WITH TOWN OF ADDISON WATER SYSTEM REQUIREMENTS.
  - A PERMANENTLY ATTACHED VALVE EXTENSION STEM SHALL BE REQUIRED FOR ANY VALVE WHERE THE OPERATING NUT IS LOCATED IN EXCESS OF 5 FEET BELOW THE TOP OF VALVE BOX. THIS EXTENSION SHALL BE OF SUFFICIENT LENGTH TO INSURE THAT ITS TOP IS WITHIN 5 FEET OF VALVE BOX LID.
  - BLUE "V" (3") CUT INTO FACE OF NEAREST CURB AND POINTING TOWARD THE VALVE.
  - ALL IRON MATERIALS SHALL BE DOMESTIC (MADE IN USA).
  - CRUSHED STONE SHALL BE 3/4", PASSING #4 SIEVE.

**Addison!**  
PUBLIC WORKS DEPARTMENT

VALVE SETTING BOX

STANDARD CONSTRUCTION DETAILS WATER

DATE: AUGUST, 2010 REV. DATE: SHEET: SD-W09



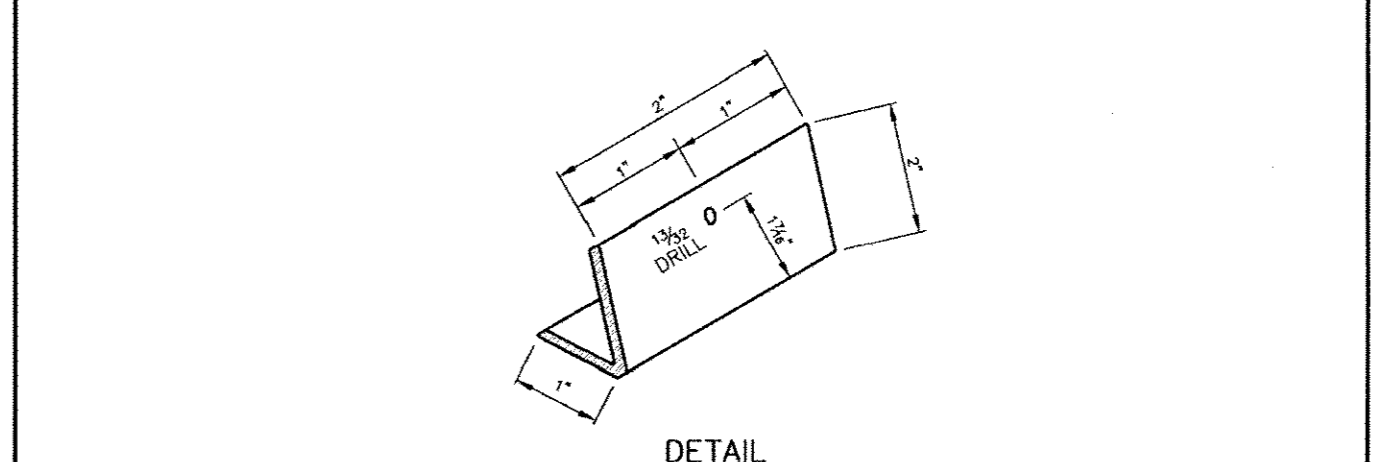
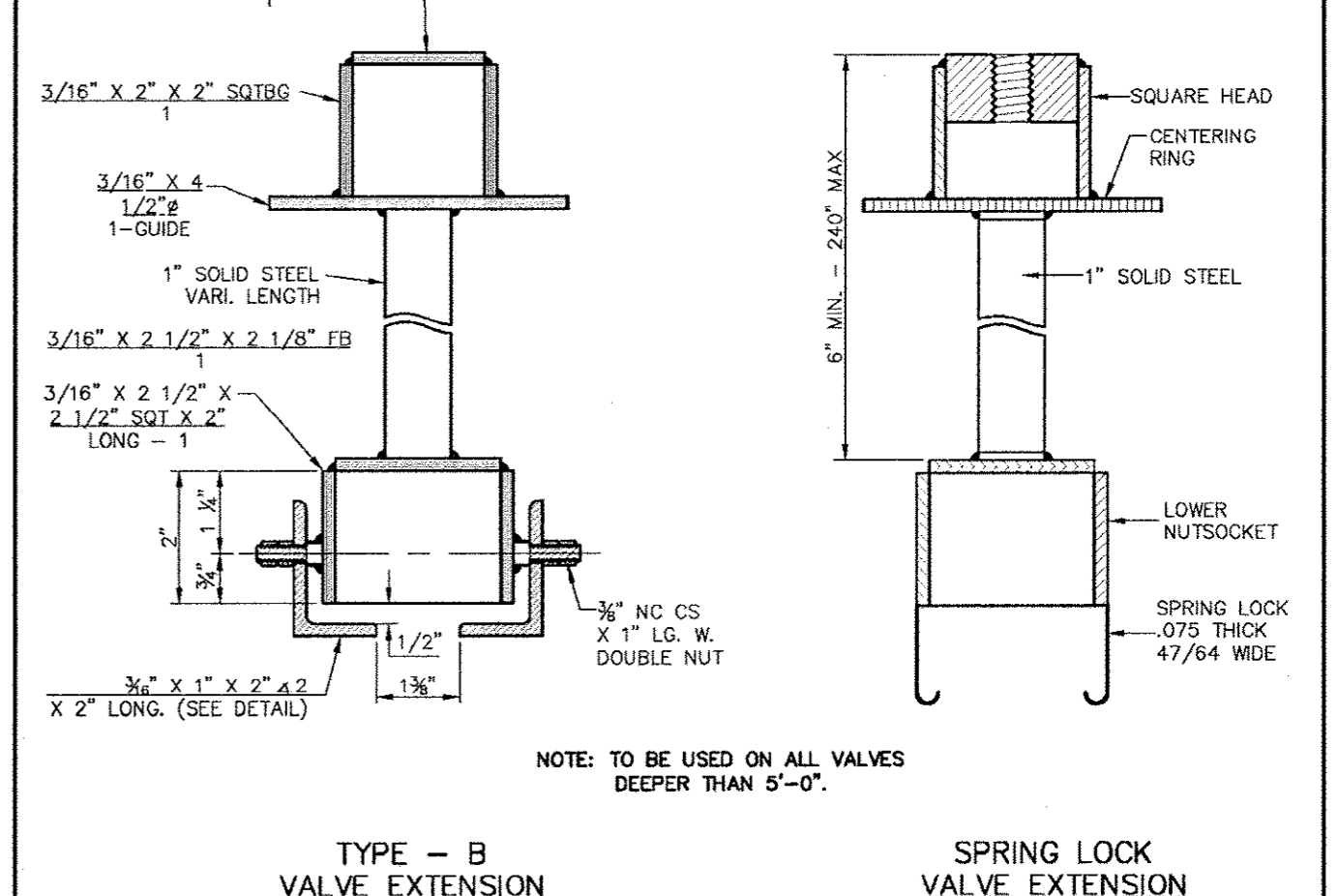
- NOTE:**
- ALL CAST IRON FITTINGS SHALL BE DOMESTIC (MADE IN U.S.A.).
  - VALVE BOXES SHALL BE PROVIDED FOR BURIED VALVES. THESE BOXES SHALL BE THREE (3) PIECE SCREW TYPE CAST IRON OF THE EXTENSION TYPE AND SHALL BE BASS & HAYS THREE (3) PIECE ADJUSTABLE SCREW TYPE, EAST JORDAN IRON WORKS 8560 W/ 6800 LID, MUELLER NO. H-10360 OR APPROVED EQUAL. THE THREE (3) PIECES SHALL CONSIST OF THE TOP SECTION, BOTTOM SECTION AND COVER.

**Addison!**  
PUBLIC WORKS DEPARTMENT

VALVE BOX WITH EXTENSION

STANDARD CONSTRUCTION DETAILS WATER

DATE: AUGUST, 2010 REV. DATE: SHEET: SD-W10

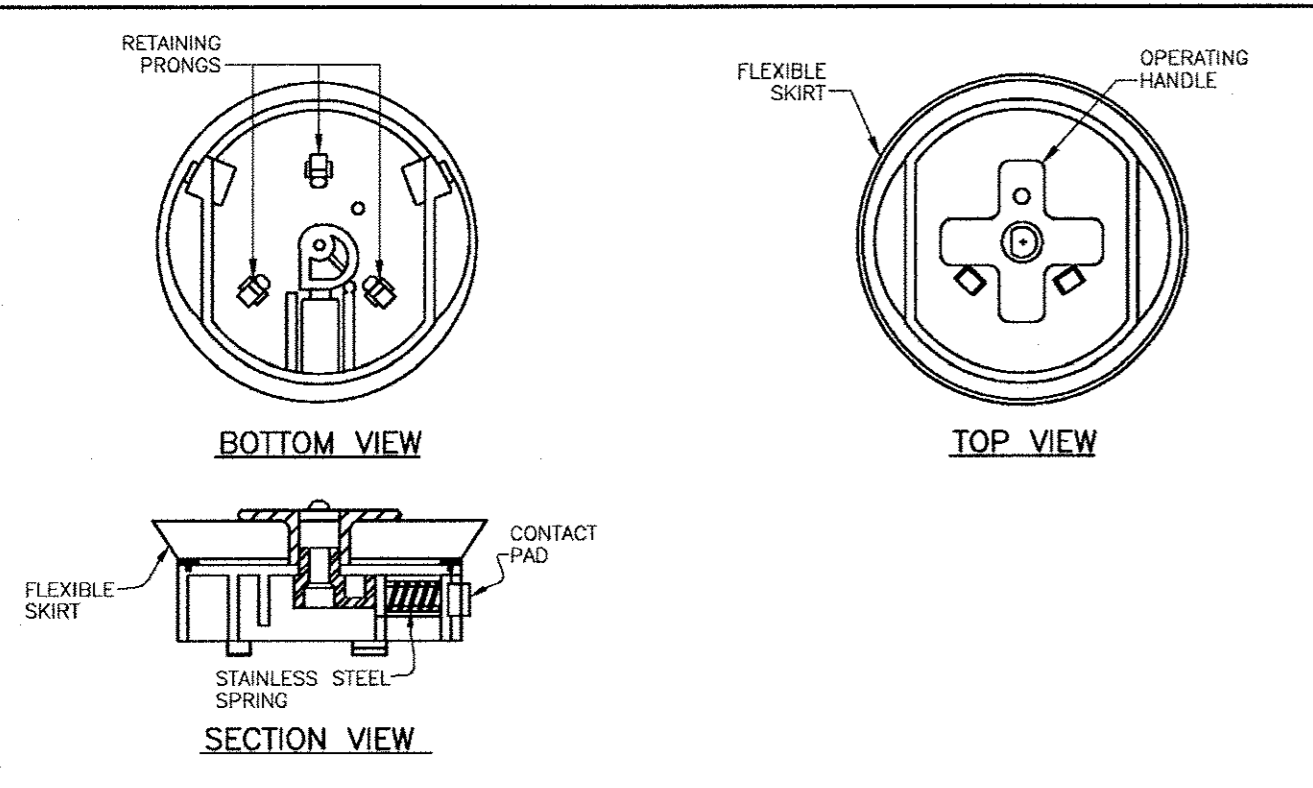


**Addison!**  
PUBLIC WORKS DEPARTMENT

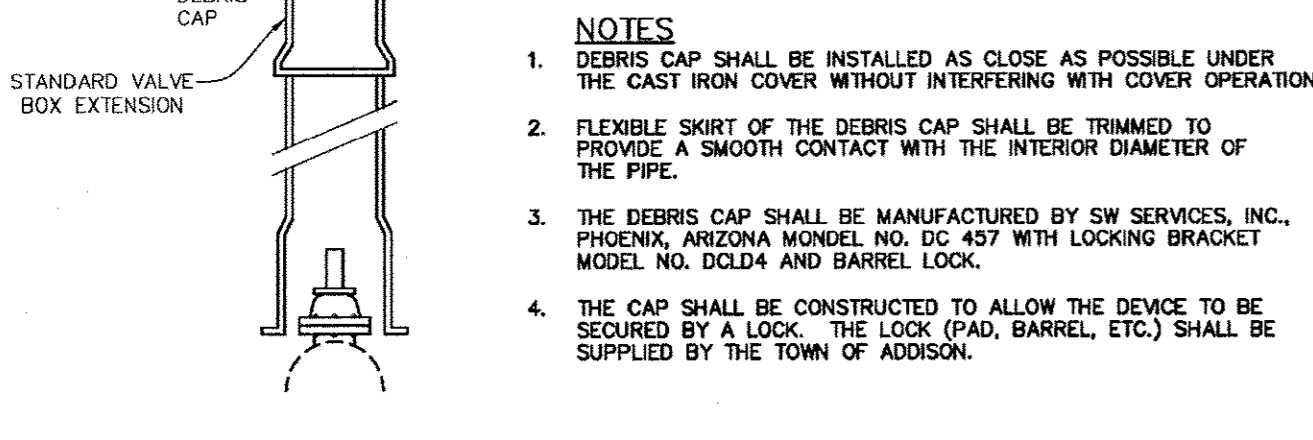
VALVE EXTENSION

STANDARD CONSTRUCTION DETAILS WATER

DATE: AUGUST, 2010 REV. DATE: SHEET: SD-W11



- NOTES:**
- DEBRIS CAP SHALL BE INSTALLED AS CLOSE AS POSSIBLE UNDER THE CAST IRON COVER WITHOUT INTERFERING WITH COVER OPERATION.
  - FLEXIBLE SKIRT OF THE DEBRIS CAP SHALL BE TRIMMED TO PROVIDE A SMOOTH CONTACT WITH THE INTERIOR DIAMETER OF THE PIPE.
  - THE DEBRIS CAP SHALL BE MANUFACTURED BY SW SERVICES, INC., PHOENIX, ARIZONA MODEL NO. DC-457 WITH LOCKING BRACKET MODEL NO. DCLD4 AND BARREL LOCK.
  - THE CAP SHALL BE CONSTRUCTED TO ALLOW THE DEVICE TO BE SECURED BY A LOCK. THE LOCK (PAD, BARREL, ETC.) SHALL BE SUPPLIED BY THE TOWN OF ADDISON.



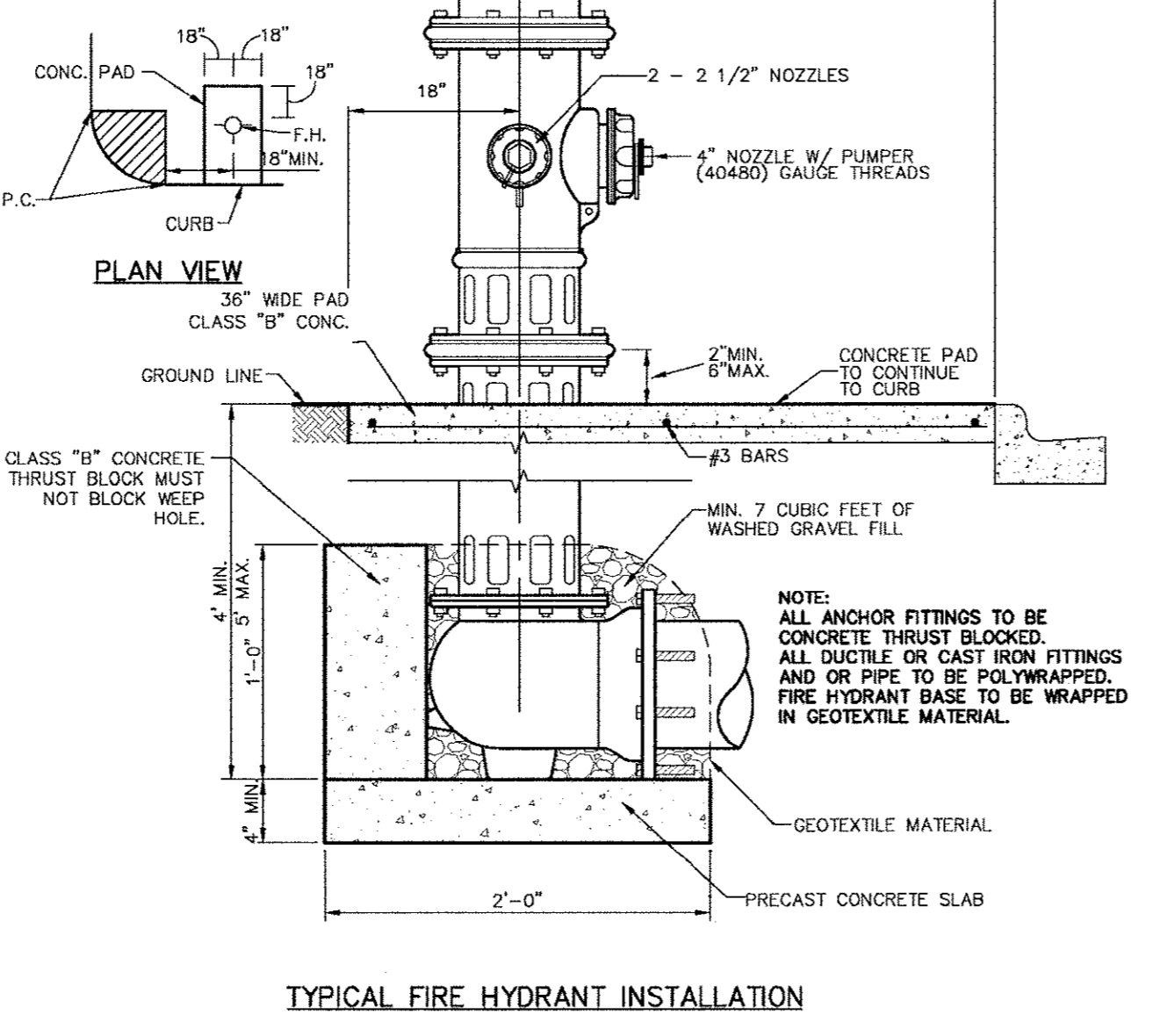
**Addison!**  
PUBLIC WORKS DEPARTMENT

DEBRIS CAP

STANDARD CONSTRUCTION DETAILS WATER

DATE: AUGUST, 2010 REV. DATE: SHEET: SD-W12

- NOTE:**
- DESIGN, SITE REQUIREMENTS, THE GENERAL OPERATION, PAINTING AND DELIVERY OF ALL FIRE HYDRANTS SHALL BE IN ACCORDANCE WITH THE TOWN OF ADDISON WATER SYSTEM REQUIREMENTS.
  - FIRE HYDRANTS SHALL BE LOCATED A MINIMUM OF 18" OUTSIDE OF THE AREA BETWEEN THE P.C.'S OF THE CORNER TURNING RADIUS AT INTERSECTIONS AND DRIVEWAYS (SEE PLAN VIEW).

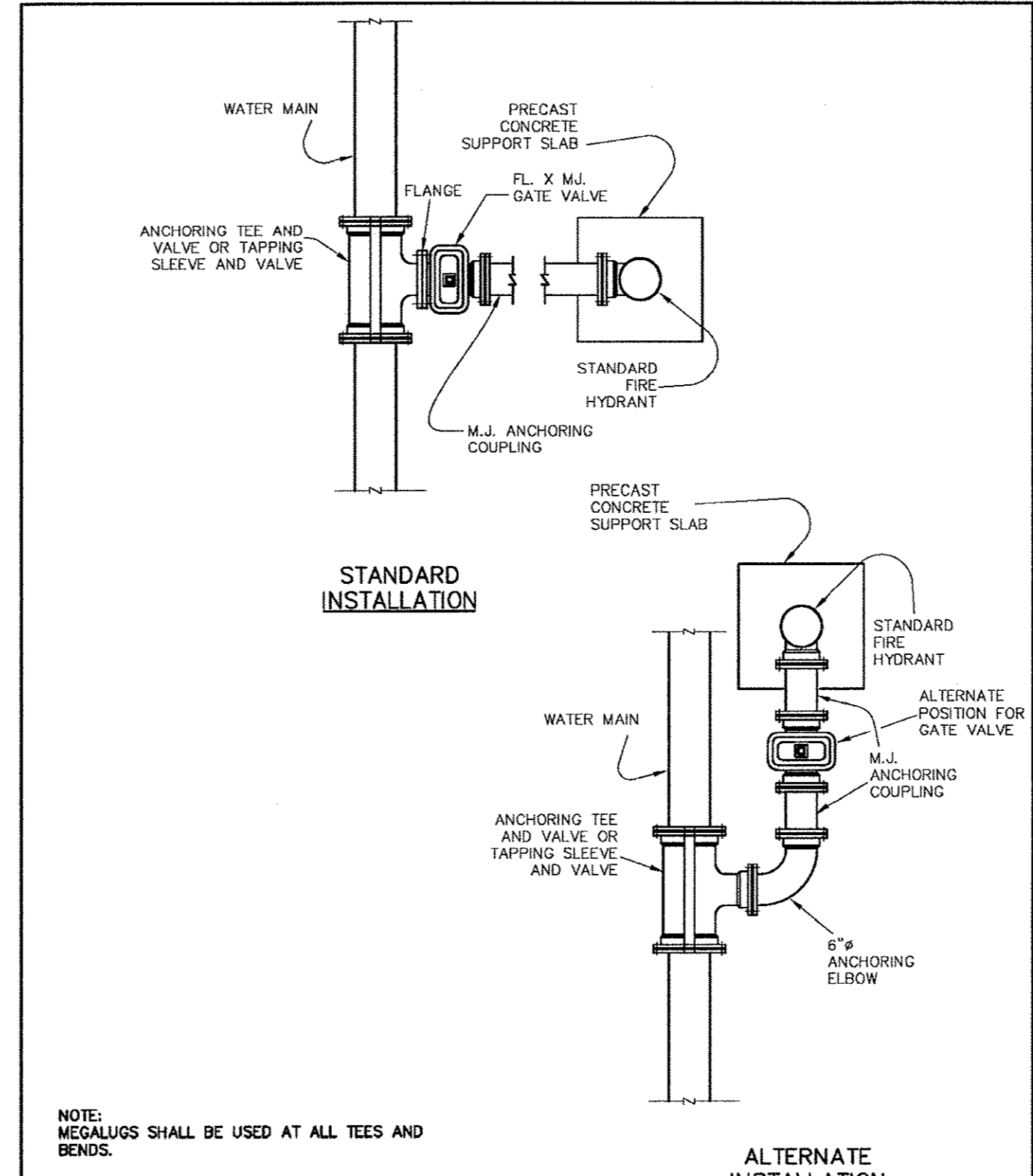


**Addison!**  
PUBLIC WORKS DEPARTMENT

TYPICAL FIRE HYDRANT INSTALLATION

STANDARD CONSTRUCTION DETAILS WATER

DATE: AUGUST, 2010 REV. DATE: SHEET: SD-W16

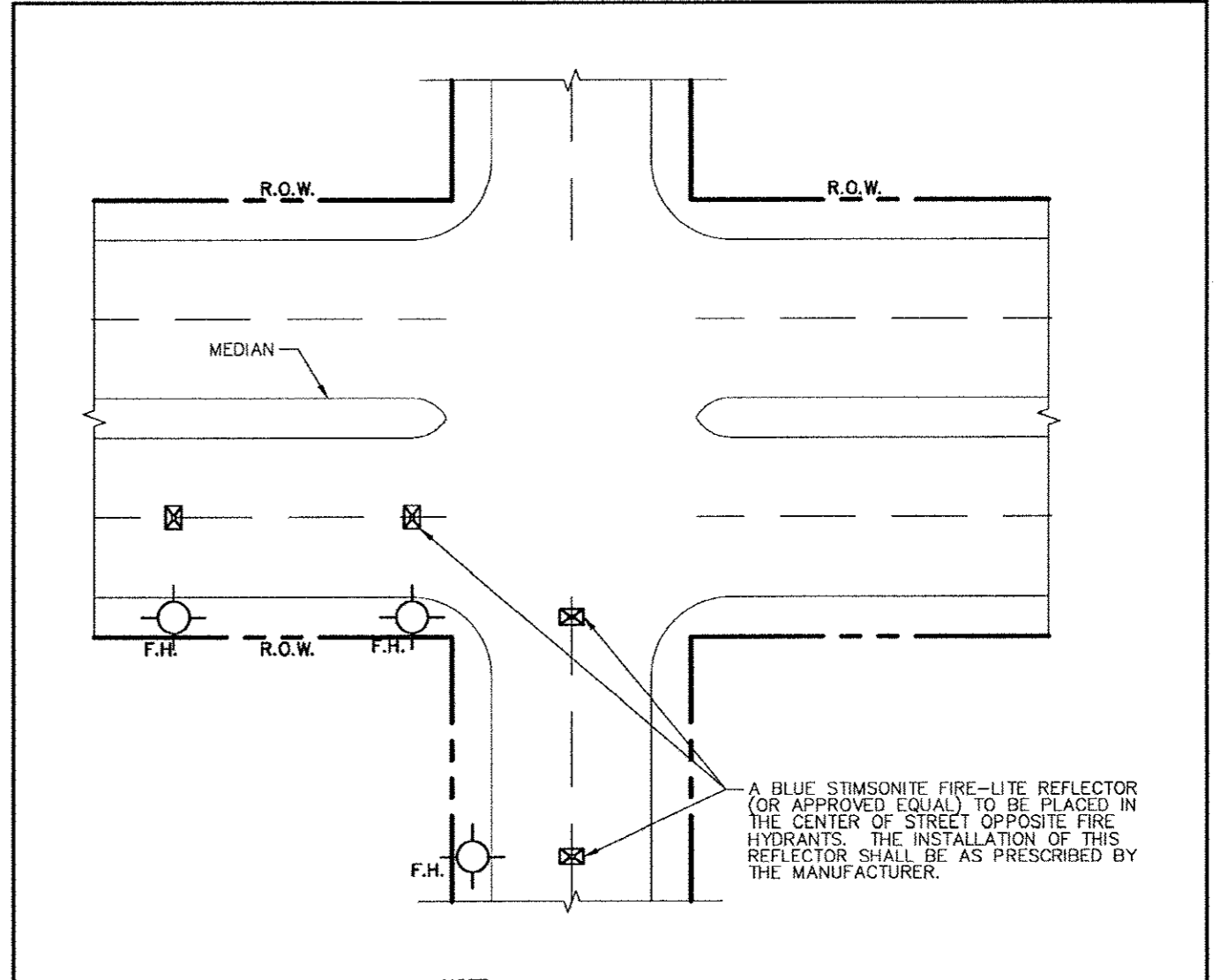


**Addison!**  
PUBLIC WORKS DEPARTMENT

TYPICAL FIRE HYDRANT INSTALLATION

STANDARD CONSTRUCTION DETAILS WATER

DATE: AUGUST, 2010 REV. DATE: SHEET: SD-W17

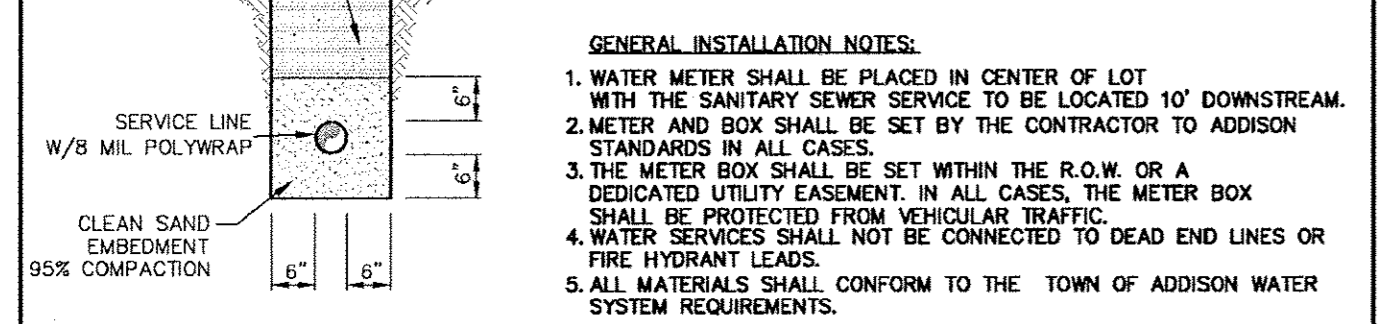
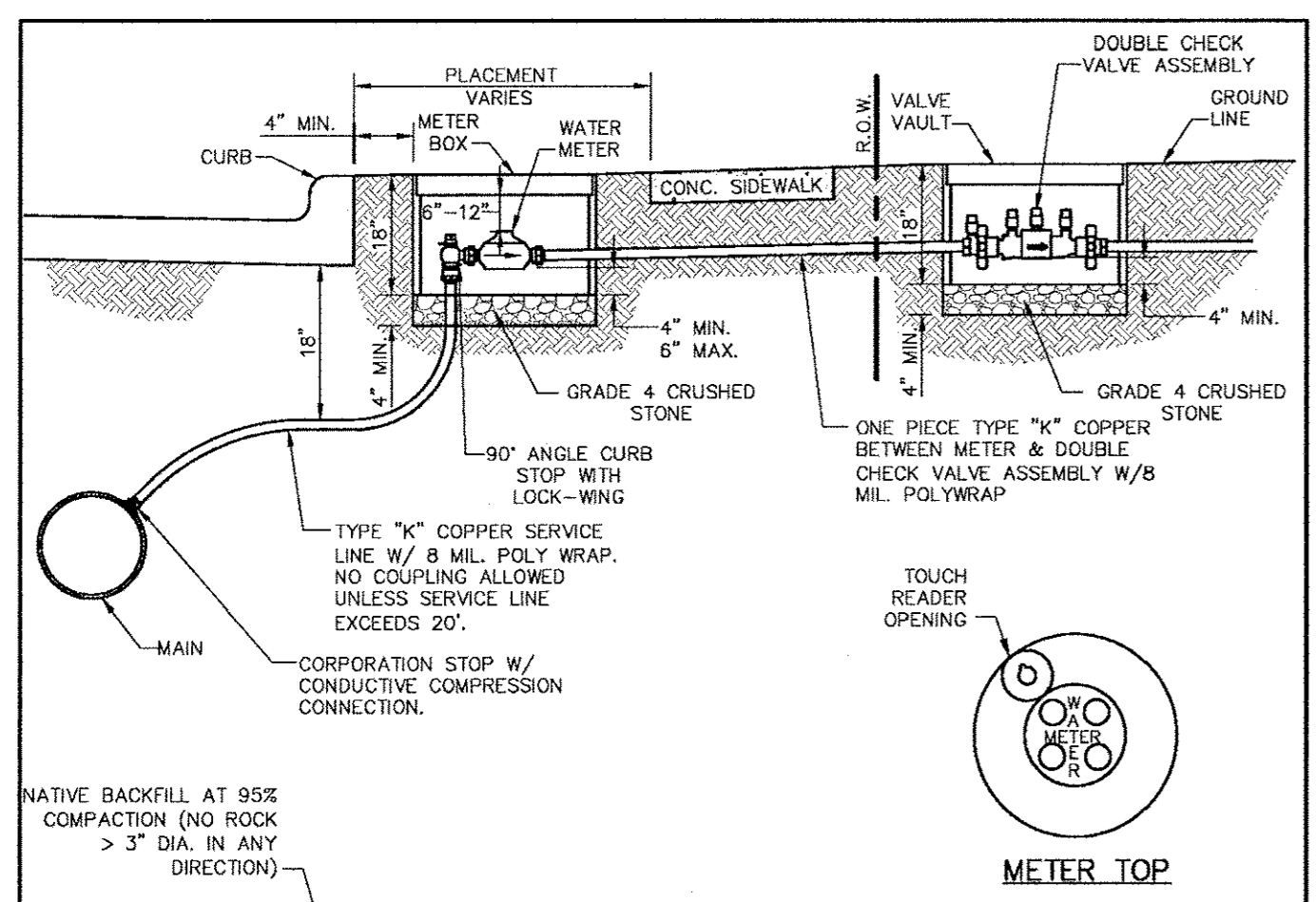


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PUBLIC WORKS DEPARTMENT

FIRE HYDRANT REFLECTOR INSTALLATION

STANDARD CONSTRUCTION DETAILS WATER

DATE: AUGUST, 2010 REV. DATE: SHEET: SD-W19



- GENERAL INSTALLATION NOTES:**
1. WATER METER SHALL BE PLACED IN CENTER OF LOT WITH THE SANITARY SEWER SERVICE TO BE LOCATED 10' DOWNSTREAM.
  2. METER AND BOX SHALL BE SET BY THE CONTRACTOR TO ADDISON STANDARDS IN ALL CASES.
  3. THE METER BOX SHALL BE SET WITHIN THE R.O.W. OR A DEDICATED UTILITY EASEMENT. IN ALL CASES, THE METER BOX SHALL BE PROTECTED FROM VEHICULAR TRAFFIC.
  4. WATER SERVICES SHALL NOT BE CONNECTED TO DEAD END LINES OR FIRE HYDRANT LEADS.
  5. ALL MATERIALS SHALL CONFORM TO THE TOWN OF ADDISON WATER SYSTEM REQUIREMENTS.

Type "K" Copper Service Pipe.	Double Strap Bronze Service Saddle with C.C. Threads	East Jordan Iron Works Galvanized Meter Box With Iron Ring & Cover				
		Min. Dia.	Covers & Rings	Min. Ht.	Min. Con Weight	Min. Total Weight
3/4 inch	3/4 inch	18 inches	12 3/4 inches	18 inches	13 lbs.	42 lbs.
1 inch	1 inch	24 inches	20 1/2 inches	18 inches	17 lbs.	98 lbs.
1 1/2 inch	1 1/2 inch	28 inches	20 1/2 inches	18 inches	20 lbs.	127 lbs.
2 inch	2 inch	28 inches	20 1/2 inches	18 inches	20 lbs.	127 lbs.

**Adison!**  
PUBLIC WORKS DEPARTMENT

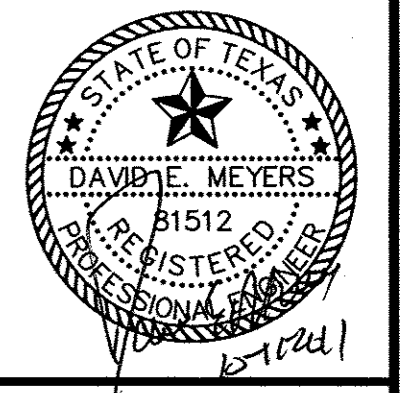
SERVICE CONNECTION WITH METER BOX

STANDARD CONSTRUCTION DETAILS WATER

DATE: AUGUST, 2010    REV DATE:    SHEET: 50-1000

**Kimley-Horn and Associates, Inc.**  
2700 West Central Expressway, Suite 800  
Ft. Worth, TX 76107  
Tel: 817-335-1234  
Fax: 817-335-1235

Revision: 1 REVISED TOWN DETAILS  
Date: 8/26/11



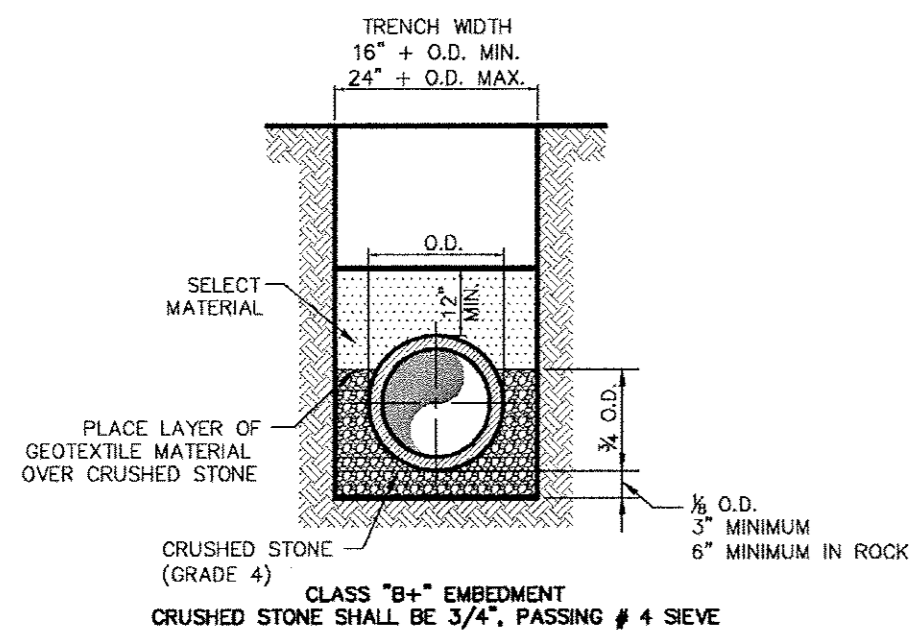
**Keller Springs Lofts**  
**Loft Apartments in Addison**  
Town of Addison, Texas

**WATER DETAILS**

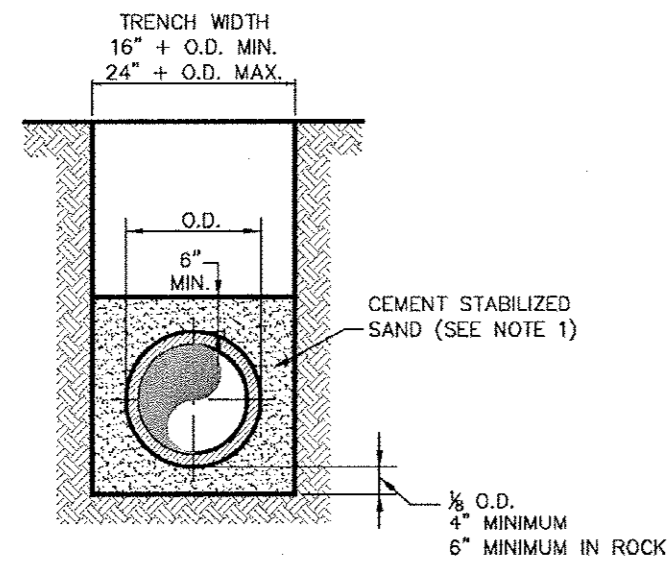
DATE:	OCTOBER 11, 2011
DESIGN:	KHA
DRAWN:	KHA
CHECKED:	KHA
KHA NO.:	06-4362003
CITY NO.:	

SHEET  
**C22a**





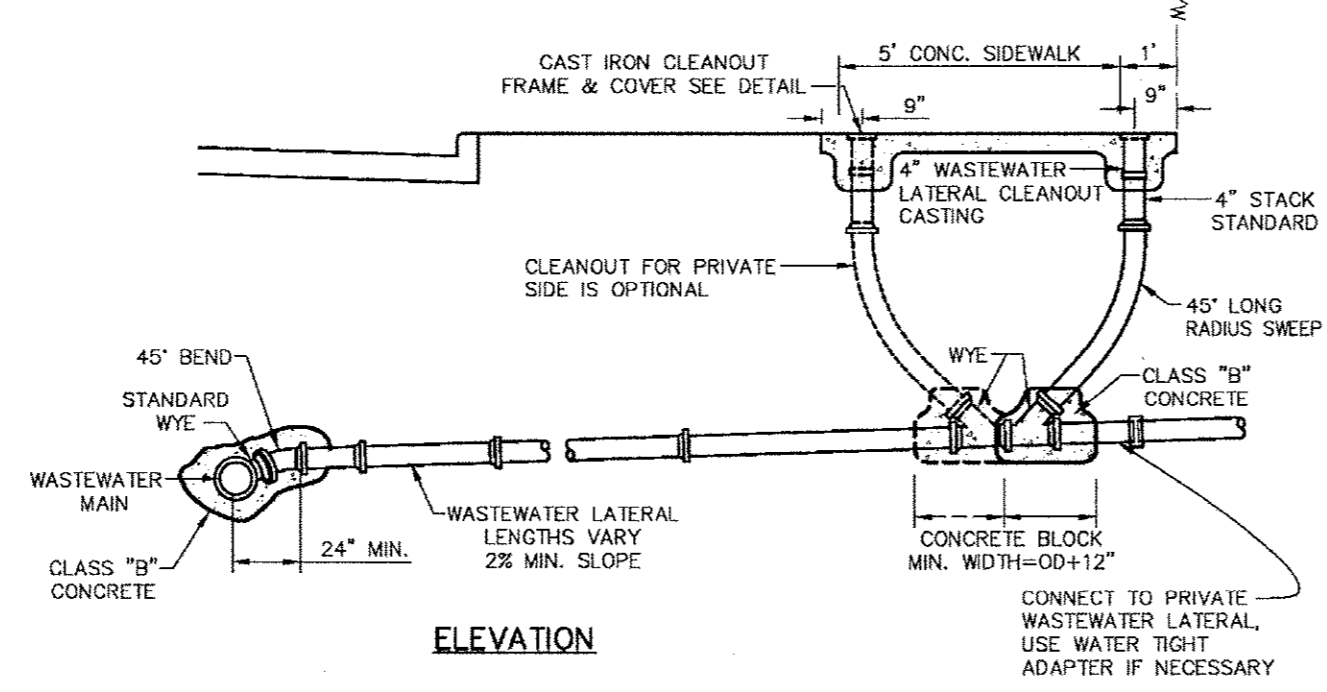
TYPICAL P.V.C. WASTEWATER MAIN EMBEDMENT



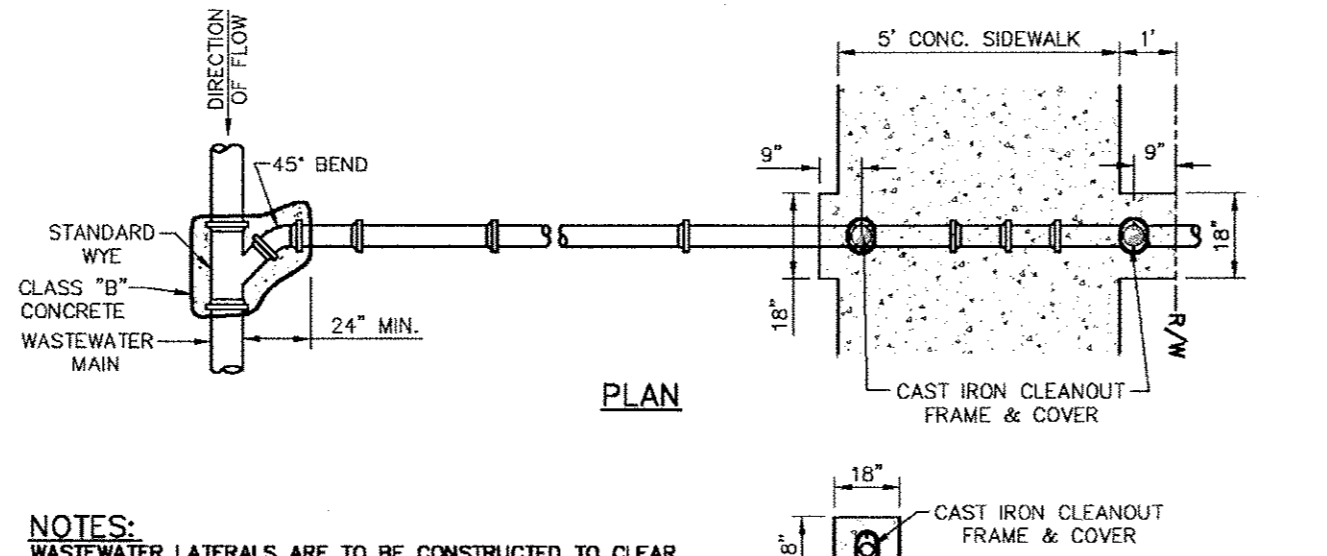
P.V.C. WASTEWATER MAIN CEMENT STABILIZED SAND EMBEDMENT

NOTE:  
1. CEMENT STABILIZED SAND SHALL HAVE A MINIMUM OF 10% CEMENT PER CUBIC YARD OF CEMENT STABILIZED SAND MIXTURE, BASED ON LOOSE DRY WEIGHT VOLUME (AT LEAST 2.5 BAGS OF CEMENT PER CUBIC YARD OF MIXTURE). THE USE OF BROWN COLORING IN CEMENT STABILIZED SAND IS REQUIRED FOR PRESSURE RATED WASTEWATER MAIN AND LATERAL BEDDING.

Addison! PUBLIC WORKS DEPARTMENT	P.V.C. WASTEWATER MAIN EMBEDMENT	STANDARD CONSTRUCTION DETAILS WASTEWATER		
		DATE: AUGUST, 2010	REV DATE:	SHEET: 30-WW03



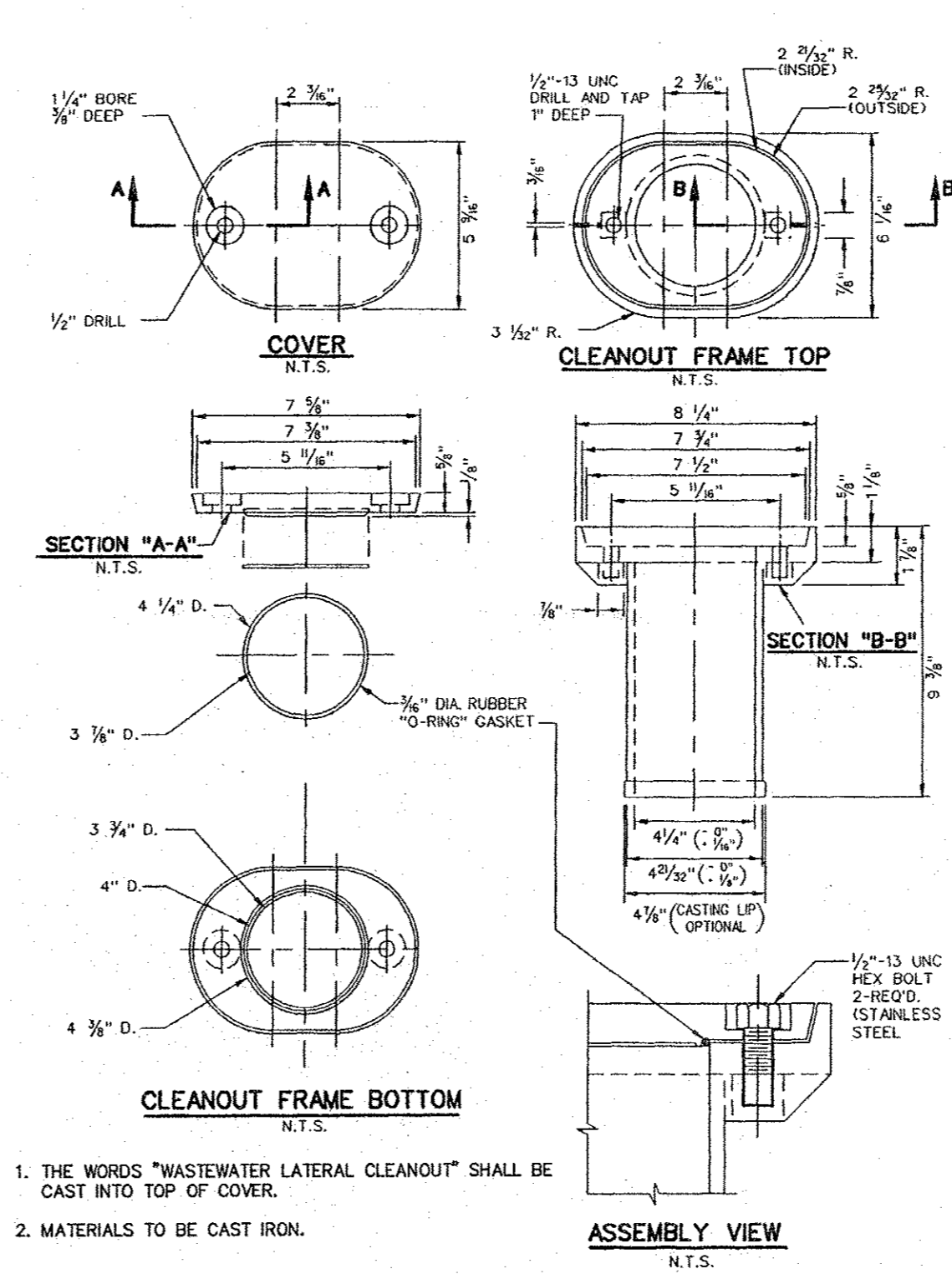
ELEVATION



PLAN

NOTES:  
1. WASTEWATER LATERALS ARE TO BE CONSTRUCTED TO CLEAR EXISTING AND PROPOSED FACILITIES, SUCH AS STORM DRAIN MAINS, RETAINING WALLS, OTHER UTILITIES, ETC.  
2. THE WASTEWATER LATERAL SHALL HAVE MINIMUM COVER OF 4'-0" BELOW THE PROPOSED CURB GRADE AT THE PROPERTY LINE, DETERMINED FROM PAVING GRADE, OR AS REQUIRED TO MAINTAIN A MINIMUM OF 2.0% GRADE, OR AS DIRECTED BY THE OWNER.

Addison! PUBLIC WORKS DEPARTMENT	TWO-WAY CLEANOUT NEW CONSTRUCTION	STANDARD CONSTRUCTION DETAILS WASTEWATER		
		DATE: AUGUST, 2010	REV DATE:	SHEET: 30-WW02

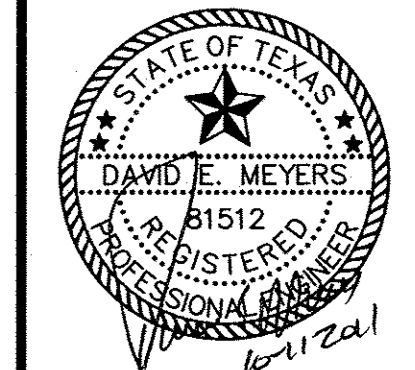


CLEANOUT FRAME BOTTOM

1. THE WORDS "WASTEWATER LATERAL CLEANOUT" SHALL BE CAST INTO TOP OF COVER.  
2. MATERIALS TO BE CAST IRON.

Addison! PUBLIC WORKS DEPARTMENT	CAST IRON CLEANOUT FRAME & COVER	STANDARD CONSTRUCTION DETAILS WASTEWATER		
		DATE: AUGUST, 2010	REV DATE:	SHEET: 30-WW03

Kimley-Horn and Associates, Inc.  
100 W. Commerce Street, Suite 300  
Fort Worth, TX 76102  
Phone: 817.335.1100  
Fax: 817.335.1101

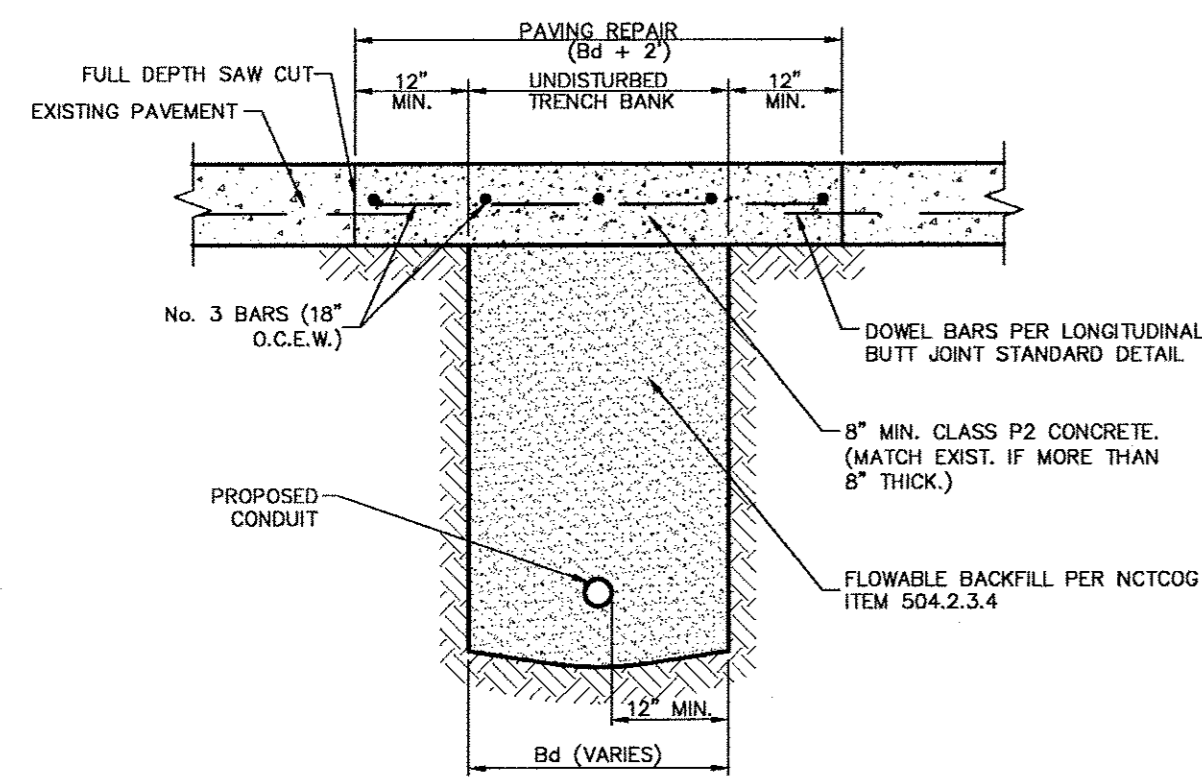


Keller Springs Lofts  
Loft Apartments in Addison  
Town of Addison, Texas

WASTEWATER DETAILS

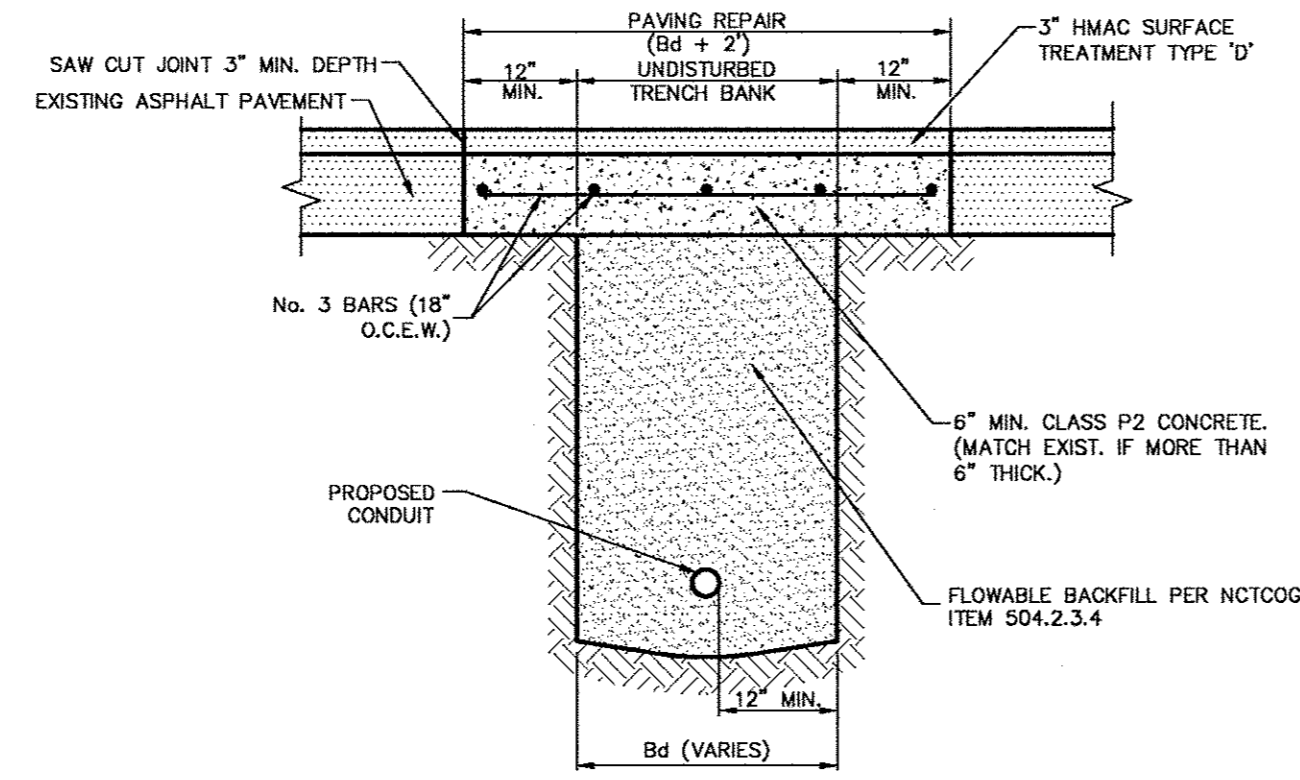
DATE: OCTOBER 11, 2011
DESIGN: KHA
DRAWN: KHA
CHECKED: KHA
KHA NO.: 06-4362003
CITY NO.:

SHEET  
C23



- NOTES:**
1. REPAIRS SHALL EXTEND TO 1' BEYOND EACH SIDE OF TRENCH (Bd).
  2. REINFORCEMENT CHAIRS OR APPROVED DEVICE SHALL BE USED.
  3. REPAIRS SHALL MATCH EXISTING GRADE.

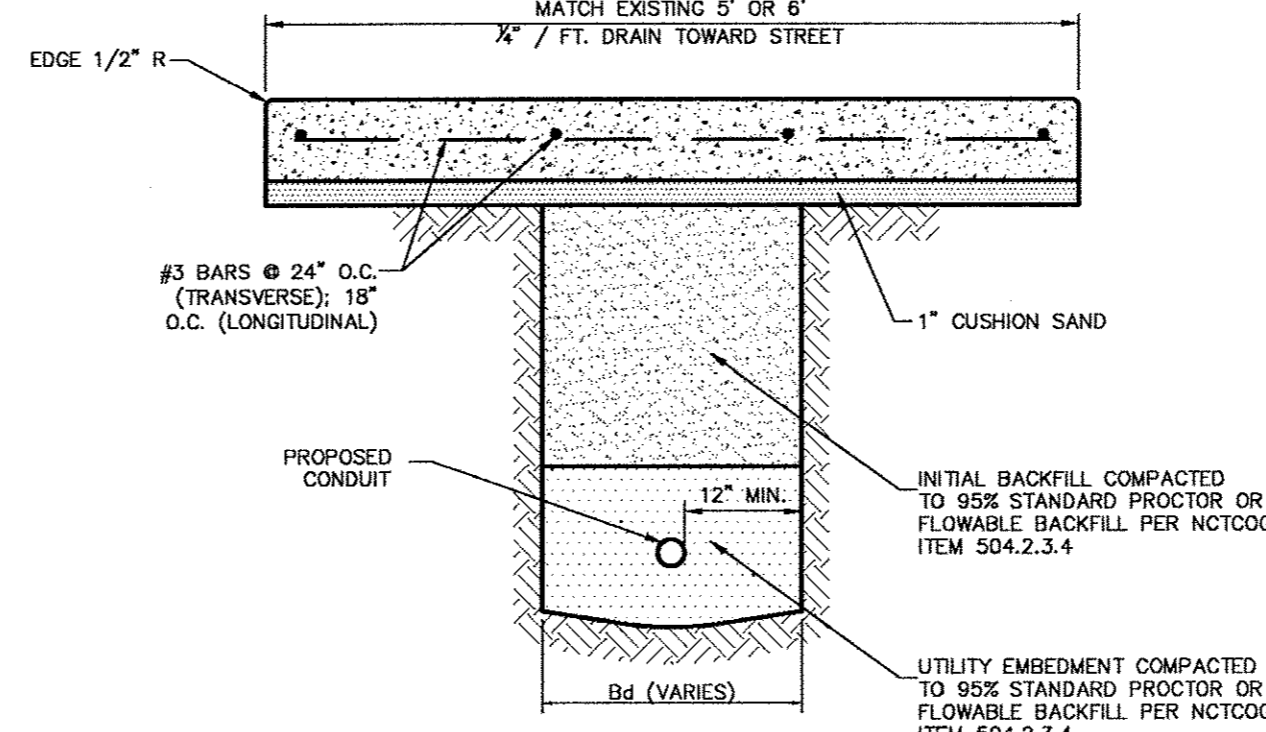
 PUBLIC WORKS DEPARTMENT	UTILITY INSTALLATION BENEATH CONCRETE ROAD SURFACE	STANDARD CONSTRUCTION DETAILS UTILITIES TRENCHLINE & STREET RESTORATION		
		DATE: AUGUST, 2010	REV. DATE: -	SHEET: SD-100



- NOTES:**
1. REPAIR SHALL EXTEND TO 1' BEYOND EACH SIDE OF TRENCH (Bd).
  2. REPAIRS SHALL MATCH EXISTING GRADE.

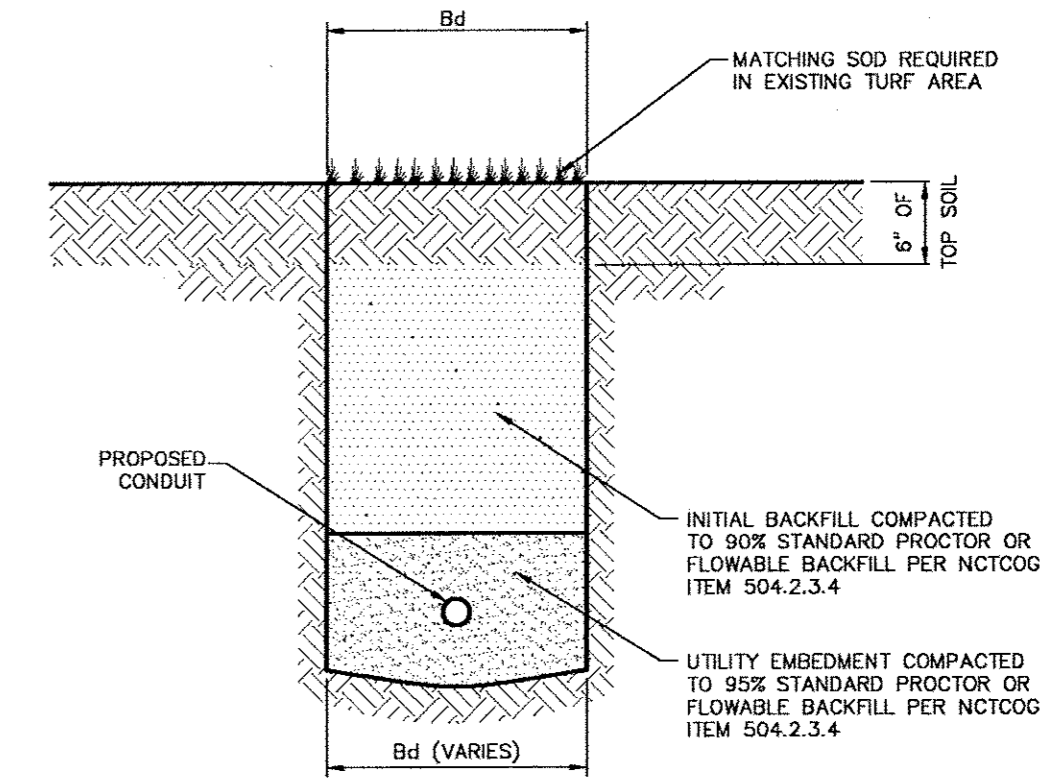
UTILITY INSTALLATION BENEATH  
ASPHALT ROAD SURFACE  
MHS

 PUBLIC WORKS DEPARTMENT	UTILITY INSTALLATION BENEATH ASPHALT ROAD SURFACE	STANDARD CONSTRUCTION DETAILS UTILITIES TRENCHLINE & STREET RESTORATION		
		DATE: AUGUST, 2010	REV. DATE: -	SHEET: SD-100



- NOTES:**
1. REPAIRS SHALL INCLUDE FULL PANELS FROM JOINT TO JOINT, AND ANY ADJACENT DAMAGED PANELS INDEPENDENT OF Bd.
  2. REINFORCEMENT CHAIRS OR APPROVED DEVICE SHALL BE USED.
  3. SEE CONCRETE SIDEWALK STANDARD DETAIL FOR SIDEWALK JOINT DETAIL.
  4. ALL DISTURBED AREAS SHALL BE SOODED (UNLESS OTHERWISE APPROVED).
  5. BACKFILL AND EMBEDMENT PARTICLE SIZE SHALL NOT EXCEED 3" IN ANY DIRECTION.
  6. CONNECT TO EXISTING SIDEWALK WITH BARS MATCHING EXISTING INSTALLATION.

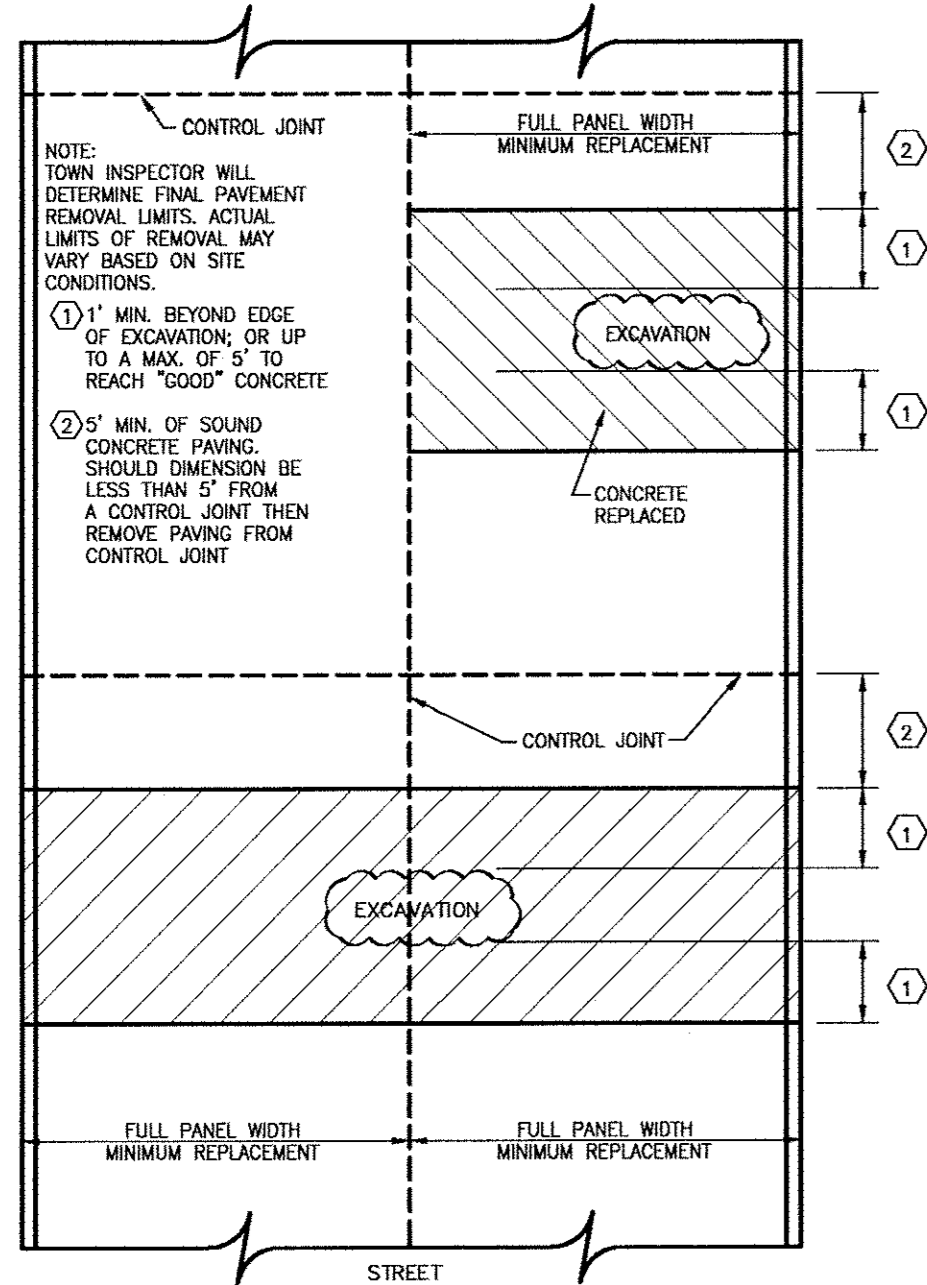
 PUBLIC WORKS DEPARTMENT	UTILITY INSTALLATION BENEATH SIDEWALK	STANDARD CONSTRUCTION DETAILS UTILITIES TRENCHLINE & STREET RESTORATION		
		DATE: AUGUST, 2010	REV. DATE: -	SHEET: SD-103



- NOTES:**
1. ALL DISTURBED AREAS SHALL BE SOODED (UNLESS OTHERWISE APPROVED).
  2. BACKFILL AND EMBEDMENT PARTICLE SIZE SHALL NOT EXCEED 3" ANY DIRECTION.

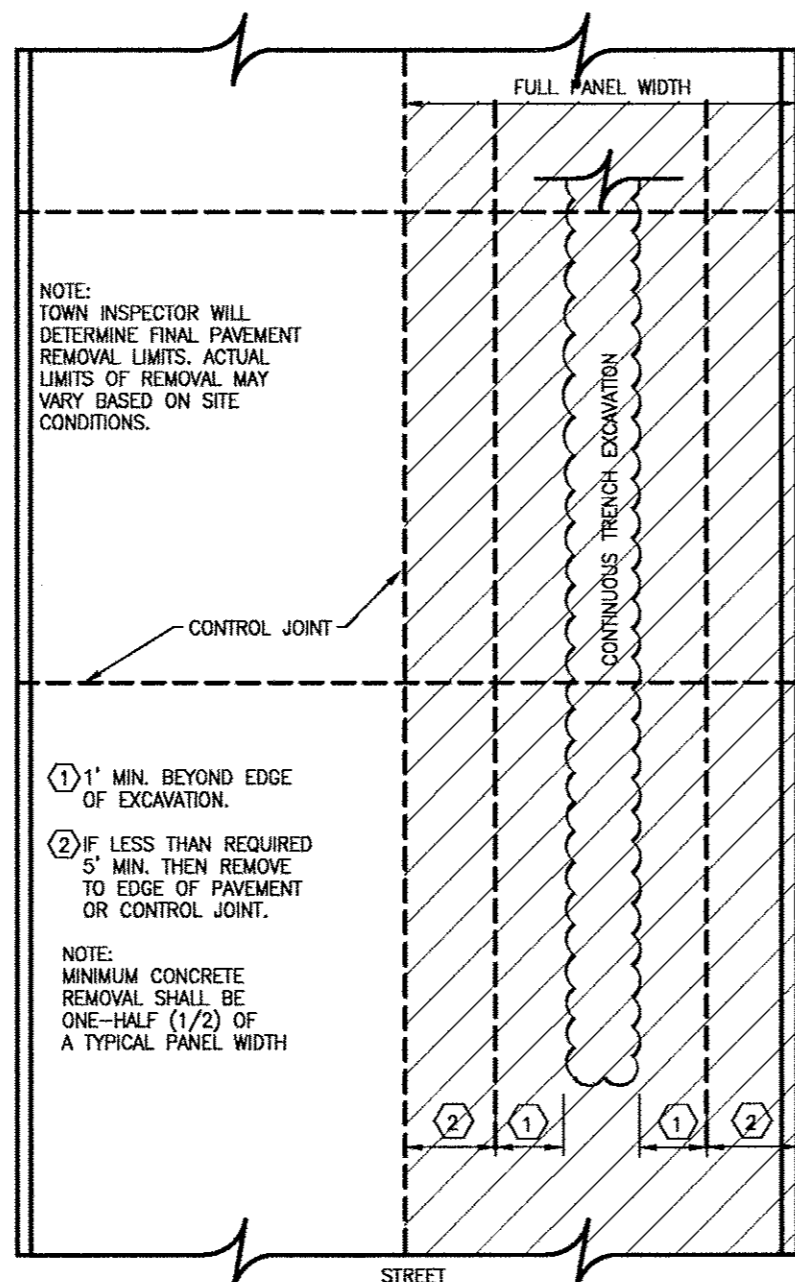
UTILITY INSTALLATION WITHIN  
TURF AREAS  
MHS

 PUBLIC WORKS DEPARTMENT	UTILITY INSTALLATION WITHIN TURF AREAS	STANDARD CONSTRUCTION DETAILS UTILITIES TRENCHLINE & STREET RESTORATION		
		DATE: AUGUST, 2010	REV. DATE: -	SHEET: SD-104



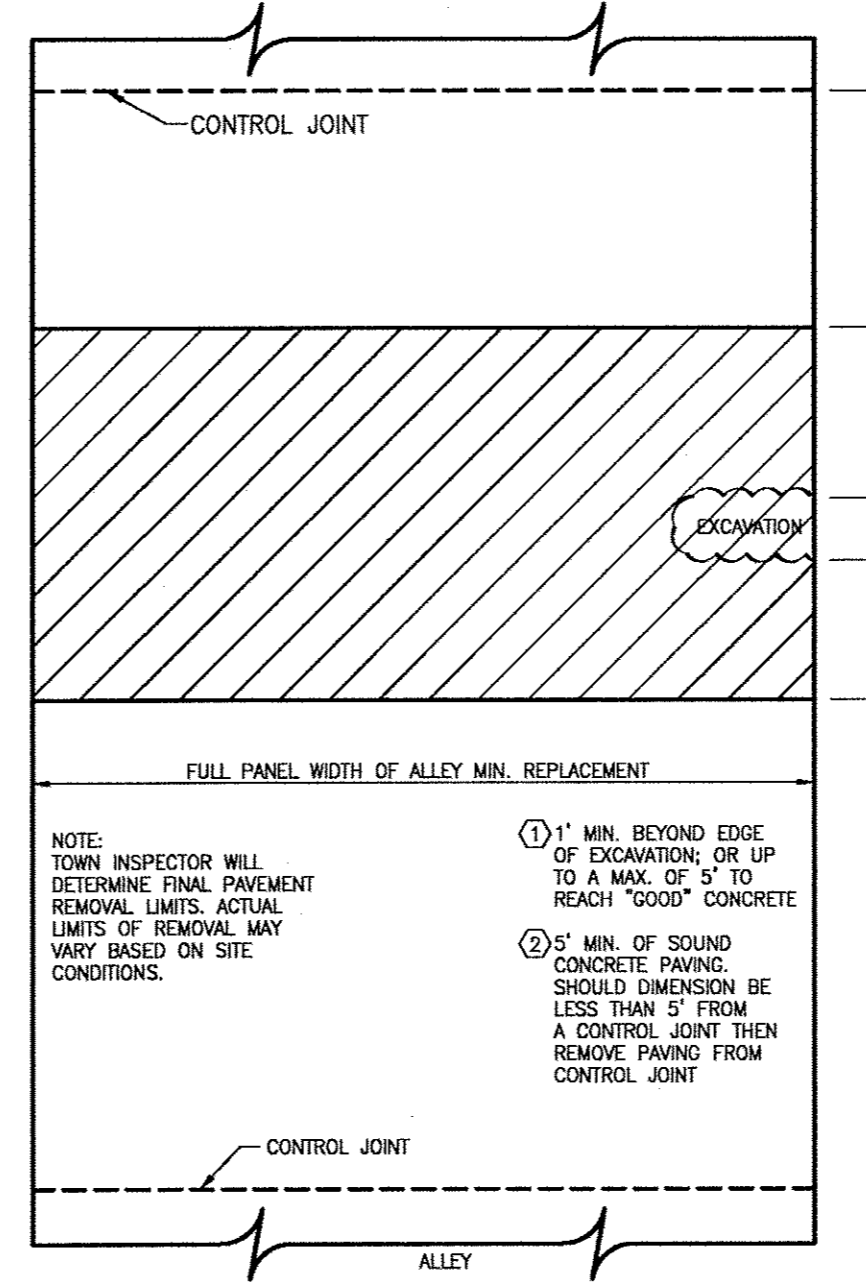
TYPICAL CONCRETE STREET REMOVAL/REPLACEMENT  
EXAMPLE 1

 PUBLIC WORKS DEPARTMENT	STREET CUT REPAIRS EXAMPLE 1	STANDARD CONSTRUCTION DETAILS UTILITIES TRENCHLINE & STREET RESTORATION		
		DATE: AUGUST, 2010	REV. DATE: -	SHEET: SD-105



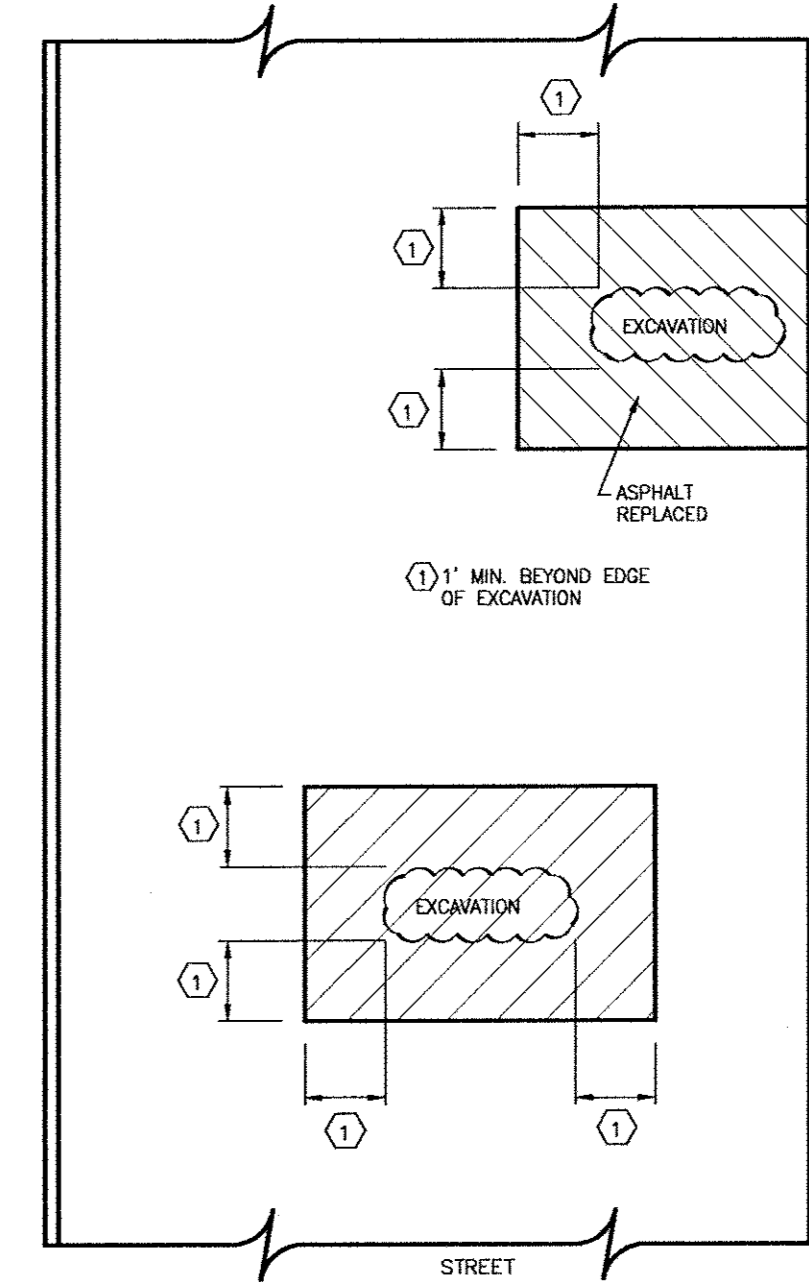
TYPICAL CONCRETE STREET REMOVAL/REPLACEMENT  
EXAMPLE 2

 PUBLIC WORKS DEPARTMENT	STREET CUT REPAIRS EXAMPLE 2	STANDARD CONSTRUCTION DETAILS UTILITIES TRENCHLINE & STREET RESTORATION		
		DATE: AUGUST, 2010	REV. DATE: -	SHEET: SD-106



TYPICAL CONCRETE ALLEY REMOVAL/REPLACEMENT  
EXAMPLE 3

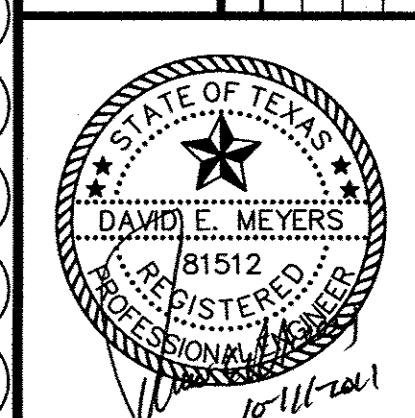
 PUBLIC WORKS DEPARTMENT	STREET CUT REPAIRS EXAMPLE 3	STANDARD CONSTRUCTION DETAILS UTILITIES TRENCHLINE & STREET RESTORATION		
		DATE: AUGUST, 2010	REV. DATE: -	SHEET: SD-107



TYPICAL ASPHALT STREET REMOVAL/REPLACEMENT  
EXAMPLE 4

 PUBLIC WORKS DEPARTMENT	STREET CUT REPAIRS EXAMPLE 4	STANDARD CONSTRUCTION DETAILS UTILITIES TRENCHLINE & STREET RESTORATION		
		DATE: AUGUST, 2010	REV. DATE: -	SHEET: SD-108

Kimley-Horn  
and Associates, Inc.  
1000 West 11th Street  
Austin, TX 78703  
Tel: 512-476-7000  
Fax: 512-476-7001



Keller Springs Lofts  
Loft Apartments in Addison  
Town of Addison, Texas

UTILITY DETAILS

DATE: OCTOBER 11, 2011	DESIGN: KHA	CITY NO.:
DRAWN: KHA	CHECKED: KHA	
	KHA NO.: 064-362003	

SHEET  
C24