

CONSTRUCTION PLANS

FOR

MIDWAY SQUARE ADDITION

THOMAS L. CHENOWETH SURVEY, ABSTRACT NO. 273

TOWN OF ADDISON

DALLAS COUNTY, TEXAS

PROJECT GENERAL NOTES

A. Prior to final acceptance by the Town of Addison:

1) A Texas Registered Professional Engineer shall certify that the project was constructed in accordance with the plans and specifications approved by the Town of Addison.

The Owner shall provide one (1) reproducible set of as-builts (sealed and certified by a Texas Registered Engineer) and two (2) blue-line sets.

2) A one (1) year maintenance bond is required for the subdivision infrastructure.

3) Contractor shall demonstrate that the water and sanitary sewer systems meet the proper pressure, bacteria, and mandrel tests. In addition, the Owner shall provide a VHS format video tape of the sanitary sewer. The final tests shall be completed upon the installation of paving and other utilities.

B. Prior to starting construction, the Contractor shall contact the utility companies to locate existing facilities. These include, but may not be limited to, the following:

- 1) Town of Addison
- 2) Lone Star Gas
- 3) Southwestern Bell
- 4) Storer Cable
- 5) Hannon Cable Systems
- 6) T.U. Electric

C. Prior to beginning construction, the Owner or his authorized representative shall convene a Pre-Construction Conference between the Town of Addison, Consulting Engineer, Contractor(s), Utility Companies and any other affected parties. Notify Bruce Ellis (450-2847) at least 48 hours prior to the time of the Conference and 48 hours prior to beginning of construction.

D. Any existing pavement, curb, and/or sidewalks damaged or removed will be repaired by the Contractor at their expense.

E. Lot pins shall be in place during construction and prior to final acceptance. Concrete monuments shall be placed on all boundary corners, block corners, curve points and angle points in public right-of-way. Concrete monuments shall be six (6) inches in diameter and twenty-four (24) inches long. A copper pin one-fourth inch in diameter embedded at least three (3) inches in the monument at the monument at the exact intersection point of the monument. The monuments shall be set at such an elevation that after construction, the top of the monument will be not less than twelve (12) inches below the ground surface.

F. The Contractor shall stamp a 2-inch "S" in the curb at the location of the sewer service line.

G. At intersections that have valley drainage, the crown of the intersecting streets will culminate in a distance of forty (40) feet from the intersecting curb line unless otherwise noted.

H. Temporary or permanent street barricades shall remain at all points of ingress and egress to prevent public use until such street received final acceptance.

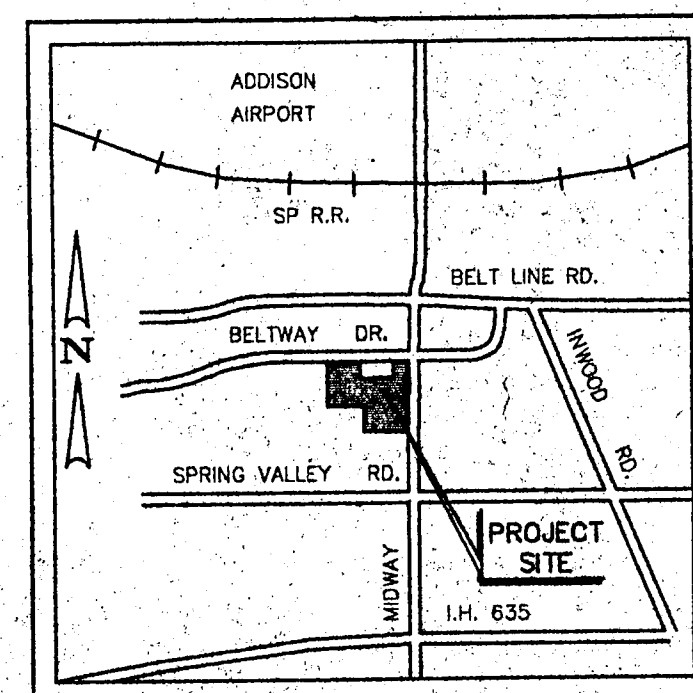
I. Contractor shall obtain a right-of-way permit by the Town of Addison for working within the public right-of-way.

J. During construction, the Owner shall provide a qualified geotechnical lab to perform materials testing during the construction, at the request of the Town of Addison.

K. The Contractor shall submit material sheets to the Town of Addison for approval prior to incorporating materials into the job.

DEVELOPER:

McCUTCHIN PROPERTIES
P.O. BOX 802043
DALLAS, TEXAS 75380-2043



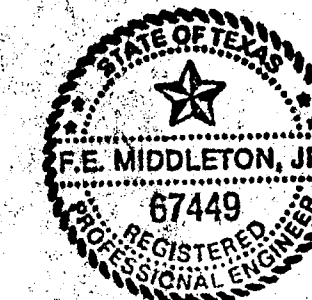
VICINITY MAP
(NOT TO SCALE)

AS BUILT

Winkelmann & Associates, Inc. hereby certifies that this plan, to the best of our knowledge is "AS BUILT." All modifications from the originally approved construction documents have been made at our inspection provided by the contractor. Winkelmann & Associates, Inc. does not certify as to the correctness or quality of construction so no field inspection was performed.

F.E. Middleton, Jr.
REGISTERED PROFESSIONAL ENGINEER
67449

10-14-94



NOVEMBER, 1993
REVISED DECEMBER 6, 1993
REVISED JANUARY 7, 1994

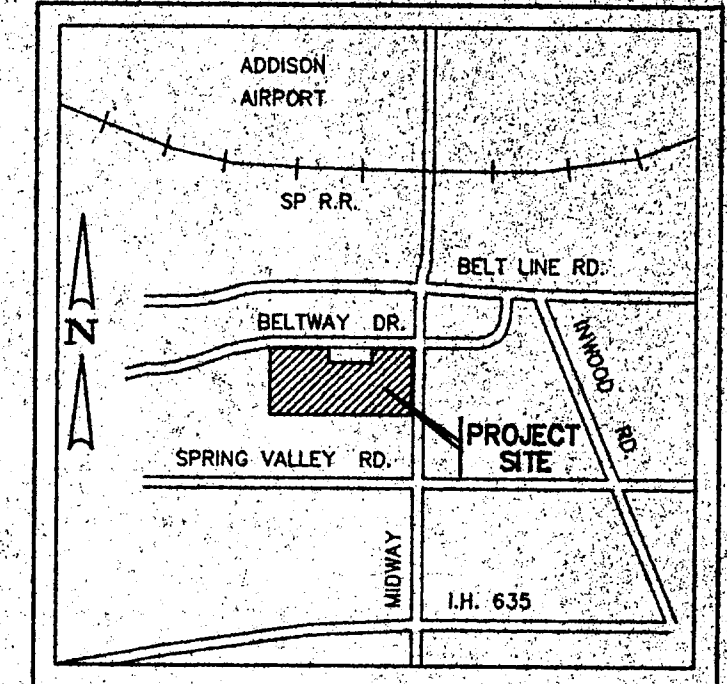
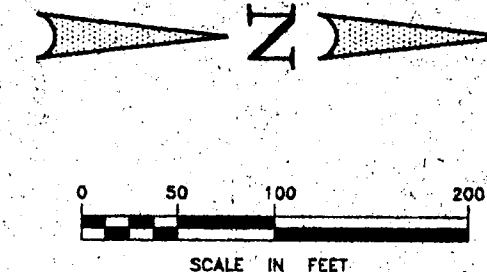
SHEET INDEX

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Winkelmann & Associates, Inc.

CONSULTING CIVIL ENGINEERS ■ SURVEYORS
12800 HILLCREST ROAD, SUITE 200 (214) 490-7090
DALLAS, TEXAS 75230 (214) 490-7099 FAX

Midway Square also in: B30-11 - Construction Plans
 1-3 Water + San Sewer (22 copies)
 3-14 Construction Plans
 B30-11
 14883 MIDWAY
 As-Builts
 MIDWAY SQUARE Construction Plans
 Addition
 15602.01



1	1-7-94	DATE
1	12-9-95	DATE
		REVISION
		CITY COMMENTS
		FEM
		APPROV

Winkelmann & Associates, Inc.
 CONSULTING CIVIL ENGINEERS & SURVEYORS
 12800 ALBERT ROAD, SUITE 200
 DALLAS, TEXAS 75244

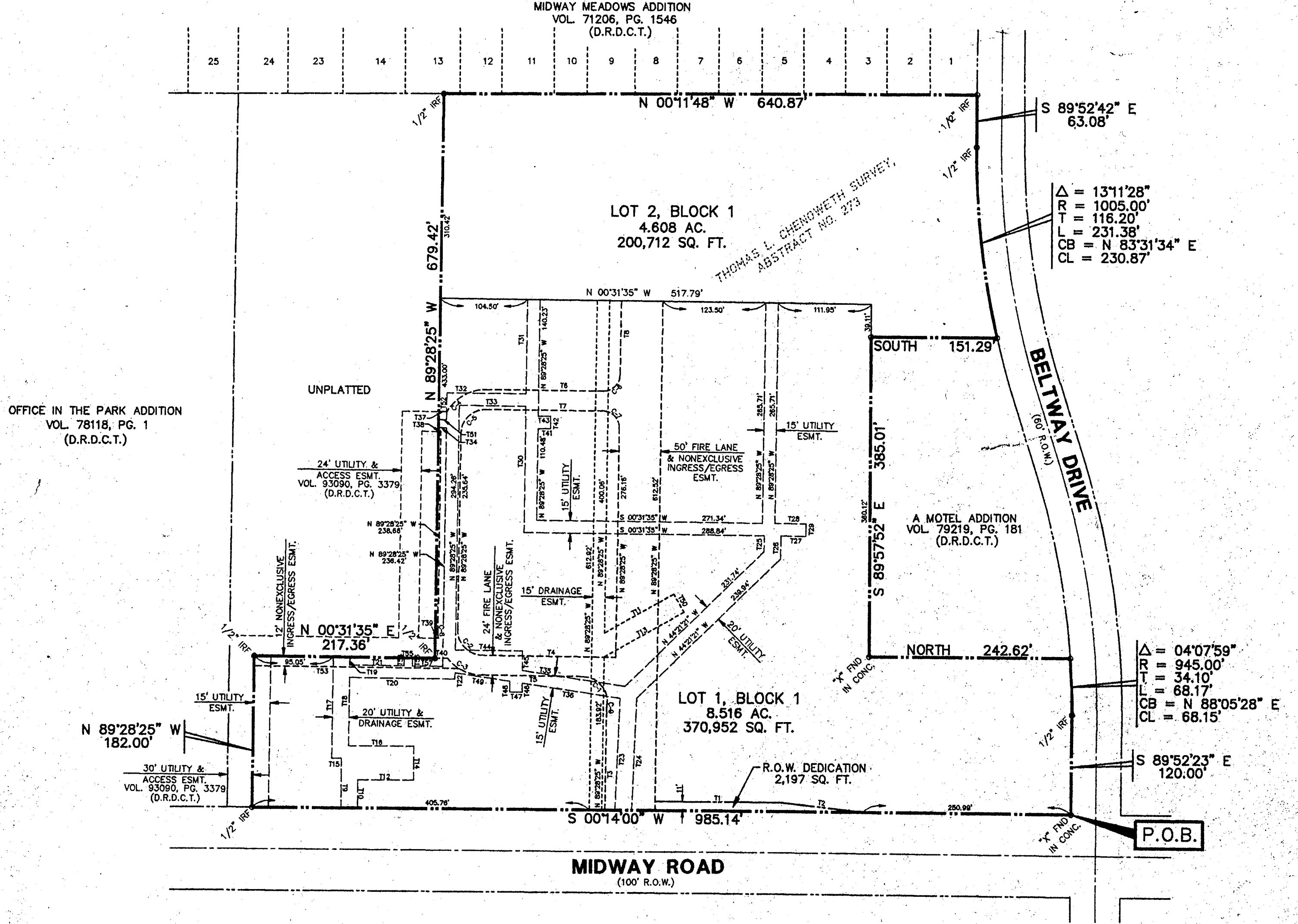
THOMAS L. CHENOWETH SURVEY, ABSTRACT NO. 273
 TOWN OF ADDISON
 DALLAS COUNTY, TEXAS
 CLIENT: MCDONNELL PROPERTIES
 P.O. BOX 802043
 DALLAS, TEXAS 75280-2043

FINAL PLAT
MIDWAY SQUARE ADDITION

Scale: 1" = 100' Date: 10/7/95
 Designed By: F.E.M.
 Drawn By: L.H.N.
 Checked By: F.E.M.
 Title: 15602FT.LAW
 Project No.: 15602.01

SHEET
 OF

MIDWAY MEADOWS ADDITION
 VOL. 71206, PG. 1546
 (D.R.D.C.T.)



OWNER'S CERTIFICATE
 STATE OF TEXAS }
 COUNTY OF DALLAS }
 TOWN OF ADDISON }

Whereas, Gene McCutchin is the owner of a tract of land situated in the THOMAS L. SURVEY, ABSTRACT NO. 273 in the Town of Addison, Dallas County, Texas and being a portion of a tract of land conveyed in deed recorded in Volume 408, Page 758 of the Deed Records of Dallas County, Texas (DRDCT) and being more particularly described as follows:

BEGINNING at an "X" found in concrete at the intersection of the westerly line of MIDWAY ROAD (a 100 foot right-of-way) and the southerly line of BELTWAY DRIVE (a 60 foot right-of-way);

THENCE South 00°14'00" West, along the westerly line of said MIDWAY ROAD, 985.14 feet to a 1/2" iron rod found;

THENCE North 89°28'25" West, leaving the westerly line of said MIDWAY ROAD, 182.00 feet to a 1/2" iron rod found;

THENCE North 00°31'35" East, 217.38 feet to a 1/2" iron rod found;

THENCE North 89°28'25" West, 679.42 feet to a 1/2" iron rod found;

THENCE North 00°14'48" West, 640.87 feet to a 1/2" iron rod found in southerly line of said BELTWAY DRIVE;

THENCE South 89°52'42" East, along the southerly line of said BELTWAY DRIVE, 63.08 feet to a 1/2" iron rod found, said iron rod also being the point of curvature of a tangent curve to the left having a radius of 1,005.00 feet and a chord which bears North 83°31'34" East, a chord distance of 230.87 feet;

THENCE northeasterly along the said curve to the left and the southerly line of said BELTWAY DRIVE through a central angle of 131°12', an arc distance of 231.88 feet to a 120d nail found;

THENCE South, leaving the southerly line of said BELTWAY DRIVE, 151.29 feet to 60d nail found;

THENCE South 89°57'52" East, 385.01 feet to an "X" found in concrete;

THENCE North, 242.62 feet to a 120d nail found in the southerly line of said BELTWAY DRIVE, said nail also being the point of curvature of a non-tangent curve to the right having a radius of 845.00 feet and a chord which bears North 88°05'28" East, a chord distance of 68.15 feet;

THENCE northeasterly along the said non-tangent curve and the southerly line of BELTWAY DRIVE to the right through a central angle of 04°07'59", a distance of 68.17 feet to a 1/2" iron rod found;

THENCE South 89°52'23" East, along the southerly line of said BELTWAY DRIVE, 120.00 feet to the POINT OF BEGINNING and containing 13,124 acres or 571,665 square feet of land, more or less.

That Gene McCutchin does hereby adopt this plat designating the hereinabove property as Midway Square, an addition to the Town of Addison, Texas, and, subject to the conditions, restrictions and reservations stated herein, 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, storm sewer, drainage, electric, telephone, gas, and cable television. Owner shall have the right to use these easements, provided 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 City 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 run-off shall be permitted by construction of any type 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 City to channelize or consider erecting any type of drainage structure in order to improve the storm drainage, then in such event, the City 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 City for drainage purposes. Each property owner shall keep the natural drainage channels and creeks traversing the drainage and floodway easement adjacent to his property clean and free of debris, silt, growth, vegetation, weeds, rubbish, refuse, matter and any substance which would result in unsanitary conditions or obstruct the flow of water, and the City shall have the right of ingress and egress for the purpose of inspection and to alleviate any undesirable conditions which may occur. The natural drainage channels and creeks through the drainage and floodway easement, as in the case of all natural channels, are subject to storm water overflow and natural bank erosion to an extent that cannot be definitely defined. The City shall not be held liable for any damages or injuries of any nature resulting from the occurrence of these natural phenomena, nor resulting from the failure of any structure or structures, within the natural drainage channels, and the owners hereby agree to indemnify and hold harmless the City from any such damage and injuries. Building areas outside the drainage and floodway easement line shall be filled to a minimum elevation as shown on the plat. The minimum floor of elevation of each lot shall be shown on the plat.

Δ = 13°11'28"
 R = 1005.00'
 T = 116.20'
 L = 231.38'
 CB = N 83°31'34" E
 CL = 230.87'

Δ = 04°07'59"
 R = 845.00'
 T = 34.10'
 L = 68.17'
 CB = N 88°05'28" E
 CL = 68.15'

TANGENT	BEARING	LENGTH	TANGENT	BEARING	LENGTH
T1	N 00°14'00" E	150.00'	T28	S 00°31'35" W	37.50'
T2	N 08°32'55" E	100.00'	T29	N 89°28'25" W	15.00'
T3	N 89°28'25" W	113.33'	T30	N 89°28'25" W	152.21'
T4	N 00°42'47" E	160.44'	T31	N 89°28'25" W	113.50'
T5	N 00°42'47" E	121.34'	T32	S 00°31'35" W	95.00'
T6	S 00°31'35" W	140.34'	T33	N 89°28'25" W	80.00'
T7	S 00°31'35" W	140.34'	T34	S 00°31'35" W	9.50'
T8	N 89°28'25" W	89.00'	T35	N 89°31'46" E	125.02'
T9	EAST	48.69'	T36	N 08°31'46" E	118.01'
T10	EAST	33.69'	T37	S 00°31'35" W	10.04'
T11	N 29°28'25" W	95.49'	T38	S 00°31'35" W	3.00'
T12	N 29°28'25" W	109.92'	T39	S 00°31'35" W	4.90'
T13	EAST	11.21'	T40	S 00°31'35" W	15.34'
T14	EAST	41.21'	T41	S 00°31'35" W	15.00'
T15	NORTH	11.52'	T42	N 89°28'25" W	15.00'
T16	NORTH	78.56'	T43	S 00°31'35" W	15.00'
T17	N 89°28'25" W	121.71'	T44	S 00°31'35" W	80.61'
T18	N 89°28'25" W	82.07'	T45	EAST	23.49'
T19	N 89°28'25" W	9.50'	T46	EAST	10.89'
T20	S 00°31'35" W	128.61'	T47	NORTH	15.00'
T21	S 00°31'35" W	65.17'	T48	EAST	12.91'
T22	N 89°28'25" W	7.47'	T49	N 08°31'46" E	66.59'
T23	N 87°41'48" W	134.66'	T50	N 00°31'35" E	25.00'
T24	N 87°41'48" W	135.52'	T51	S 00°31'35" W	9.50'
T25	N 89°28'25" W	19.41'	T52	N 89°28'25" W	32.34'
T26	N 89°28'25" W	27.72'	T53	S 00°31'35" W	246.67'
T27	S 00°31'35" W	30.00'	T54	N 90°00'00" W	9.50'
T28	S 00°31'35" W	30.00'	T55	S 00°31'35" W	10.00'
T29	S 00°31'35" W	30.00'	T56	S 90°00'00" E	9.50'
T30	S 00°31'35" W	30.00'	T57	S 00°31'35" W	36.63'

CRV NO	RADIUS	DELTA	TANGENT	LENGTH
C-1	30.00	89°04'35"	34.56'	51.35'
C-2	30.00	89°48'48"	29.90'	47.03'
C-3	54.00	50°17'50"	25.35'	47.40'
C-4	54.00	60°25'12"	31.44'	56.94'
C-5	30.00	90°00'00"	30.00'	47.12'
C-6	20.00	90°00'00"	20.00'	31.42'
C-7	20.00	90°00'00"	20.00'	31.42'
C-8	54.00	110°33'52"	5.23'	10.43'
C-9	45.00	08°15'47"	3.25'	6.49'

OFFICE IN THE PARK ADDITION
 VOL. 78118, PG. 1
 (D.R.D.C.T.)

UNPLATED
 ACCESS ESMT.
 VOL. 93690, PG. 3379
 (D.R.D.C.T.)

12' NON-EXCLUSIVE
 INGRESS/EGRESS ESMT.

15' UTILITY ESMT.

15' UTILITY & DRAINAGE ESMT.

30' UTILITY & ACCESS ESMT.
 VOL. 93690, PG. 3379
 (D.R.D.C.T.)

MIDWAY ROAD
 (100' R.O.W.)

A MOTEL ADDITION
 VOL. 79219, PG. 181
 (D.R.D.C.T.)

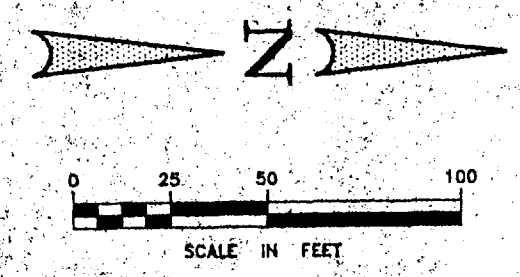
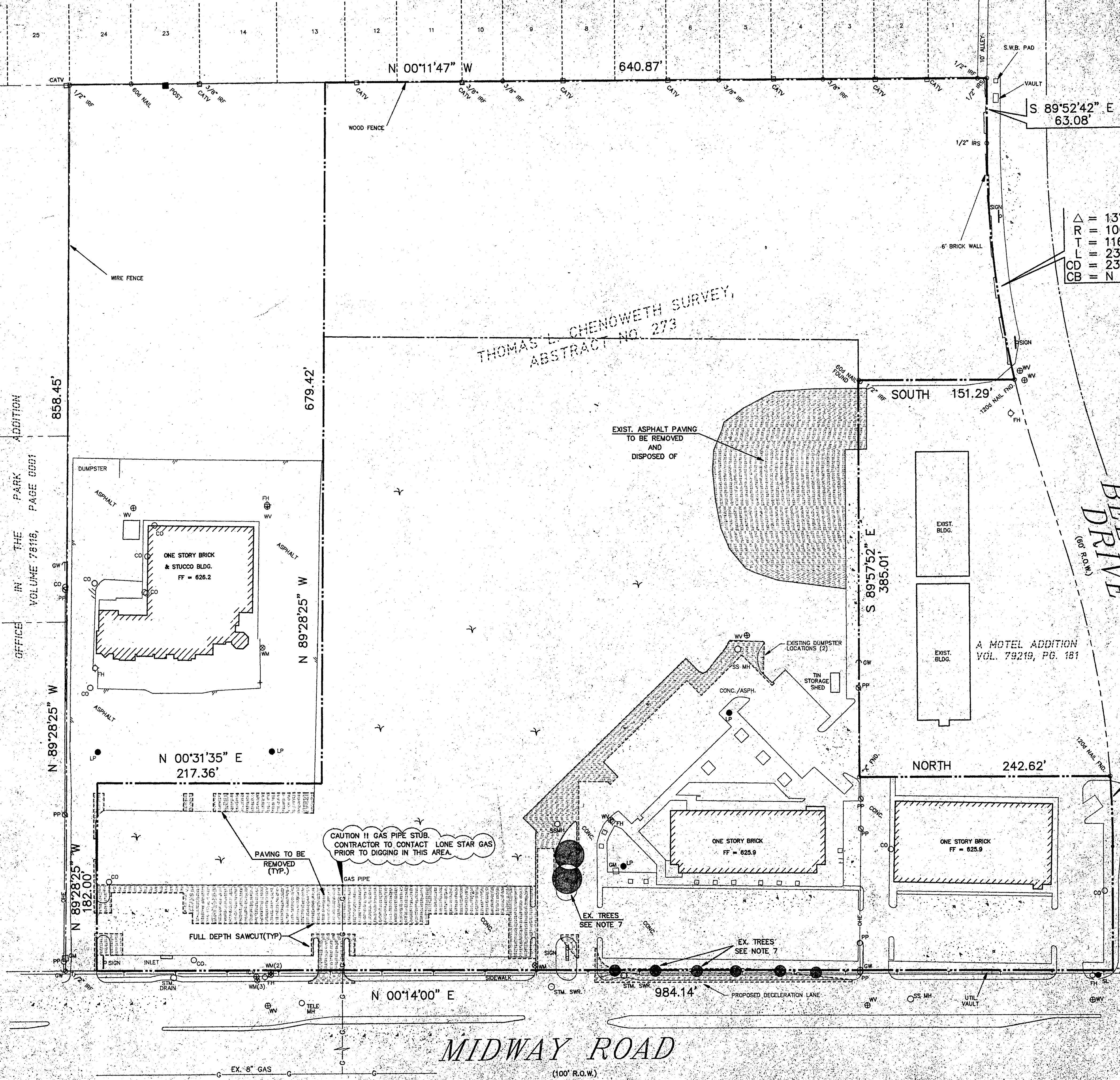
LOT 1, BLOCK 1
 8.516 AC.
 370,952 SQ. FT.

R.O.W. DEDICATION
 2197 SQ. FT.

LOT 2, BLOCK 1
 4.608 AC.
 200,712 SQ. FT.

THOMAS L. CHENOWETH SURVEY,
 ABSTRACT NO. 273

P.O.B.



△ = 13°11'28"
R = 1005.00'
T = 116.20'
L = 231.38'
CD = 230.87'
CB = N 83°31'34" E

GENERAL NOTES

- REFER TO THE DIMENSIONAL CONTROL & PAVING PLAN FOR EXACT LOCATION OF SAWCUT LINE.
- CONTRACTOR IS TO PROTECT ALL EXISTING UTILITIES DURING THE CONSTRUCTION PHASE. ANY DAMAGE TO THE EXISTING UTILITIES WILL BE REPAIRED AT THE CONTRACTORS EXPENSE.
- ALL CONCRETE AND CURB TO BE REMOVED SHALL BE DISPOSED OF BY THE CONTRACTOR.
- FULL DEPTH SAWCUT WILL BE REQUIRED AS SHOWN ON THIS PLAN.
- ALL BARRICADES, WARNING SIGNS, SIGNAL LIGHTS, ETC... SHALL BE IN COMPLIANCE WITH THE "TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" AND THE TEXAS DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.
- THE CONTRACTOR IS REQUIRED TO CONTACT THE LOCAL UTILITY COMPANIES LISTED BELOW FOR UTILITY LINE LOCATIONS PRIOR TO COMMENCING ANY CONSTRUCTION.
- THE CONTRACTOR IS TO CONTACT OWNER PRIOR TO ANY TREE REMOVAL.

UTILITY CONTACTS

LONE STAR GAS	JEAN HOOKER	931-1997
T.U. ELECTRIC	TIM BRANCHEAU	888-1307
S.W. BELL TEL.	TIM BEIDELMAN	234-7085
HARRON CABLE SYS.	DENNIS ANDERSON	434-2202

△ RT = 04°07'59"
L = 945.00'
CD = 34.10'
CB = 68.17'
CB = 68.15'
CB = N 88°05'28" E

AS BUILT

Winkelmann & Associates, Inc. hereby certifies that this plan, to the best of our knowledge is "As Built". All modifications from the originally approved construction documents have been made as per information provided by the contractor. Winkelmann & Associates, Inc. does not certify as to the correctness of quality of construction as no field inspection was performed.

F.E. Middleton, Jr.
WINKELMANN & ASSOCIATES, INC.
DATE: 10-14-94



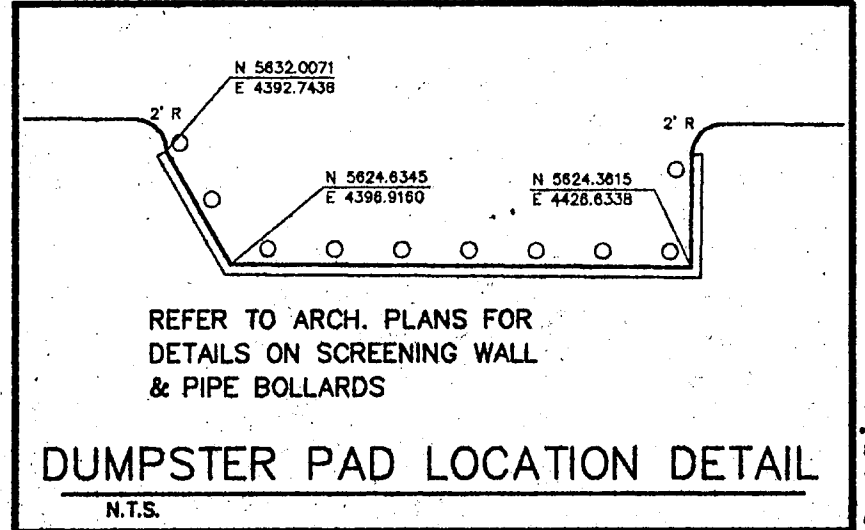
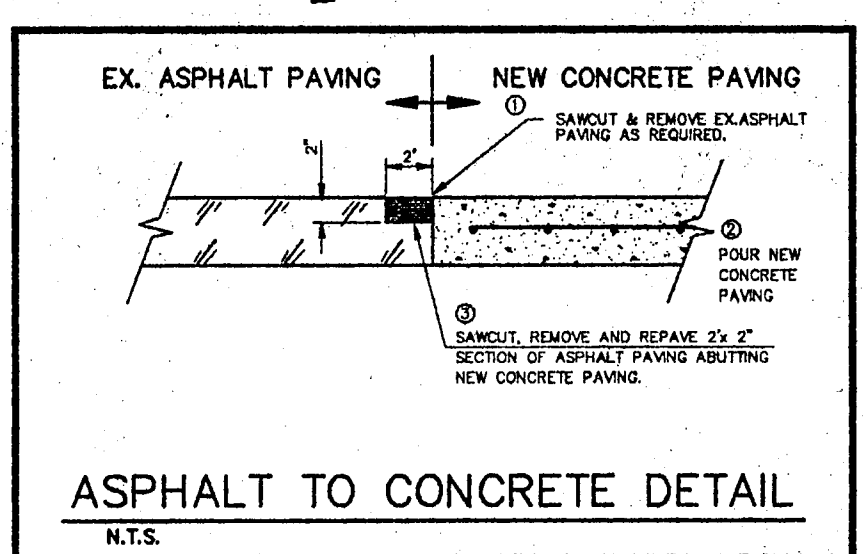
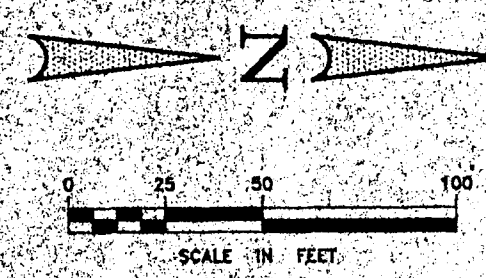
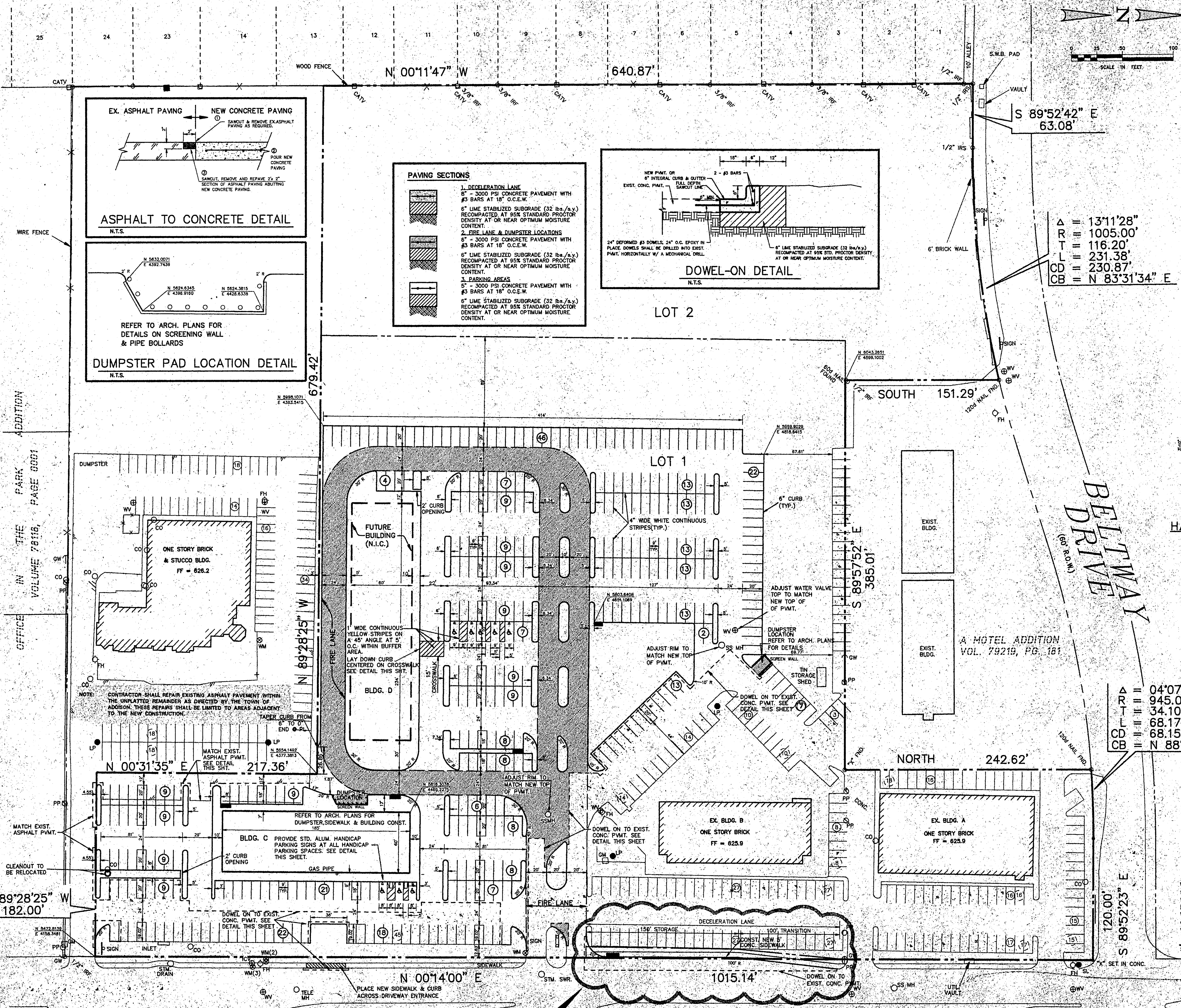
NO.	DATE	REVISION	CITY COMMENTS	FEM APPROV
1	12-6-93			

Winkelmann & Associates, Inc.
CONSULTING CIVIL ENGINEERS & SURVEYORS
1402 GUTCHIN PROPERTIES
DALLAS, TEXAS 75201
PH: 972-798-7000

THOMAS L. CHENOWETH SURVEY
TOWN OF ADDISON, DALLAS COUNTY, TEXAS
CLIENT: 1402 GUTCHIN PROPERTIES
DALLAS, TEXAS 75201

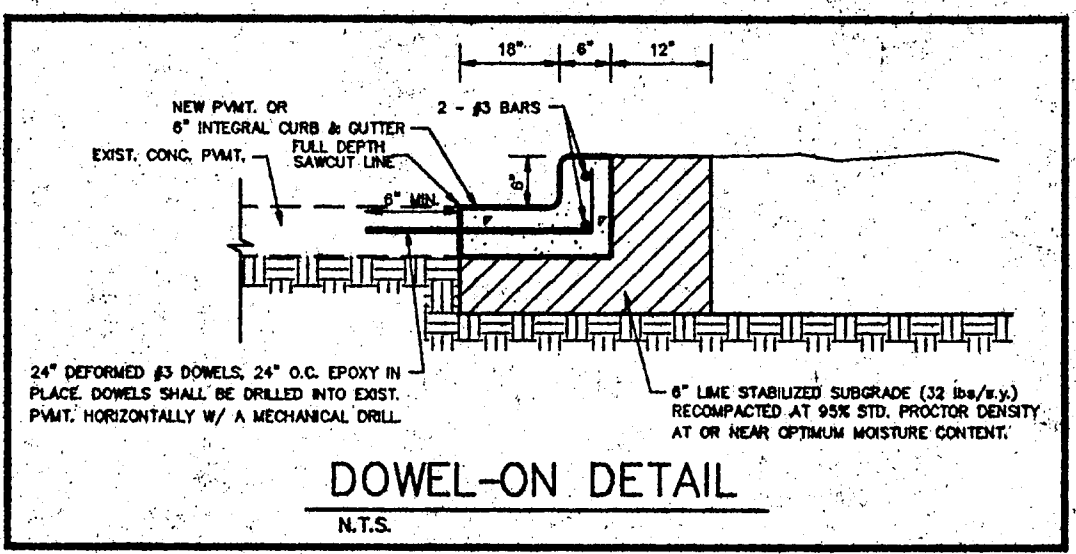
DEMOLITION PLAN

Scale: 1" = 80' Date: 10/93
Designed By: F.E.M.
Drawn By: LHM/TIC
Checked By: F.E.M.
Title: 1561EMO DWG
Project No.: 1560201

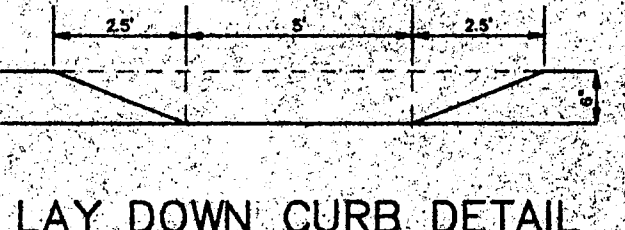
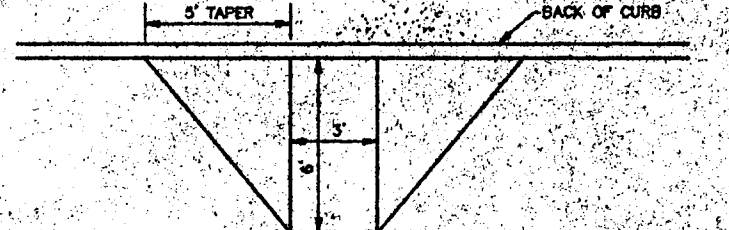
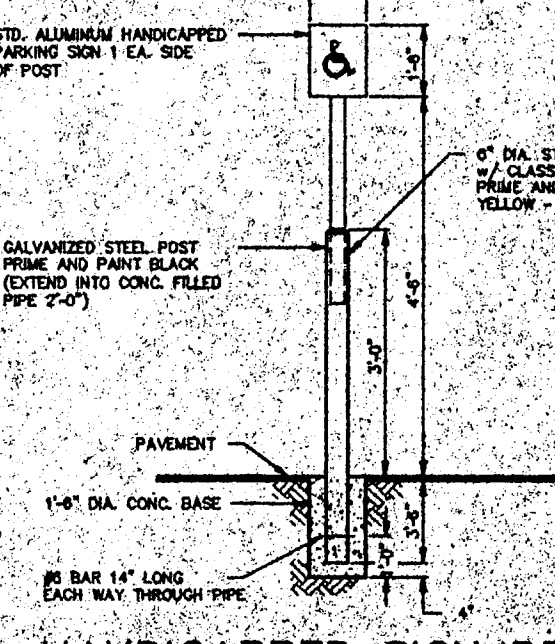
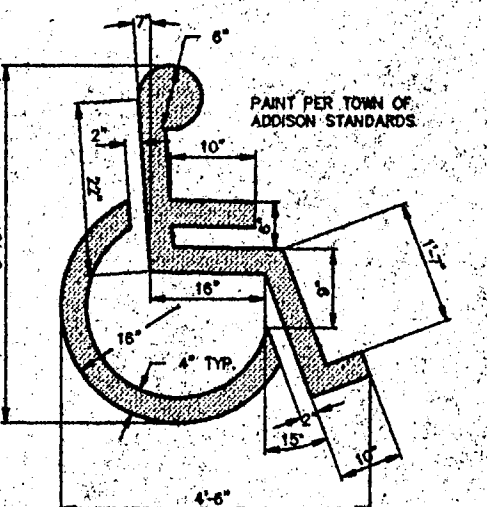


PAVING SECTIONS

1. DECELERATION LANE
6" - 3000 PSI CONCRETE PAVEMENT WITH #3 BARS AT 18" O.C.E.W.
2. FIRE LANE & DUMPSTER LOCATIONS
6" - 3000 PSI CONCRETE PAVEMENT WITH #3 BARS AT 18" O.C.E.W.
3. PARKING AREAS
6" - 3000 PSI CONCRETE PAVEMENT WITH #3 BARS AT 18" O.C.E.W.



$\Delta = 13'11.28"$
 $R = 1005.00'$
 $T = 116.20'$
 $L = 231.38'$
 $CD = 230.87'$
 $CB = N 83'31'34" E$



PARKING COUNT

EXISTING PARKING	202
PROPOSED PARKING	331
TOTAL	533
REQUIRED PARKING	531

AS BUILT

Winkelmann & Associates, Inc. hereby certifies that this plan to the best of our knowledge is "As Built". All modifications from the originally approved construction documents have been made as per information provided by the contractor, correctness or quality of construction as no field inspection was performed.

J.E.M. Middleton
10-14-94
DATE

LEGEND

- HANDICAP PARKING SIGN
- HANDICAP PARKING SPACE
- ▽ HANDICAP RAMP
- SAW CUT LINE
- PROPOSED INLETS - REFER TO DRAINAGE SHEET FOR LOCATIONS
- ⊙ PROPOSED PARKING LOT COUNT
- ⊙ EXISTING PARKING LOT COUNT



NO.	DATE	REVISION	CITY COMMENTS	ITEM	APPROV.
1	1-7-94				
1	12-6-93				

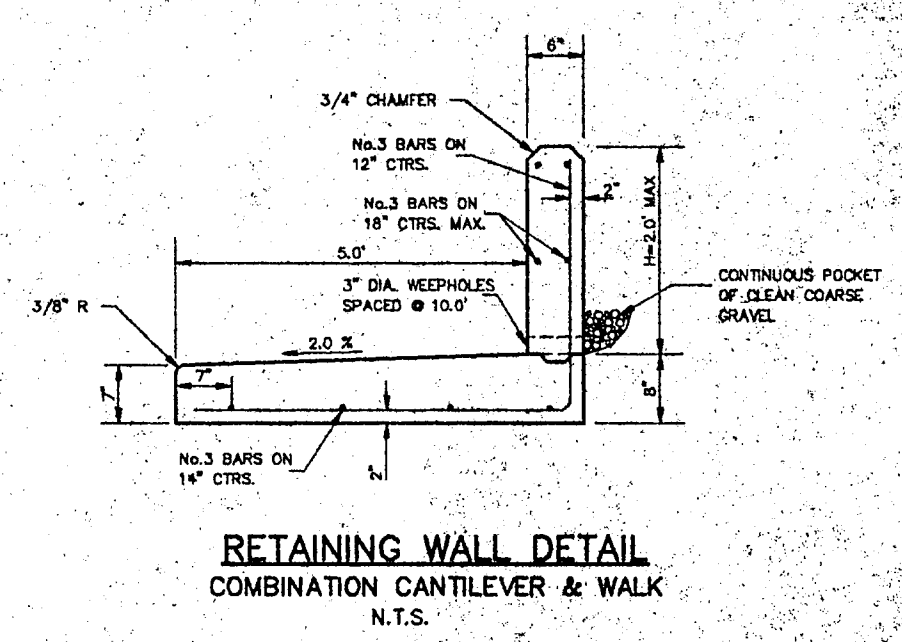
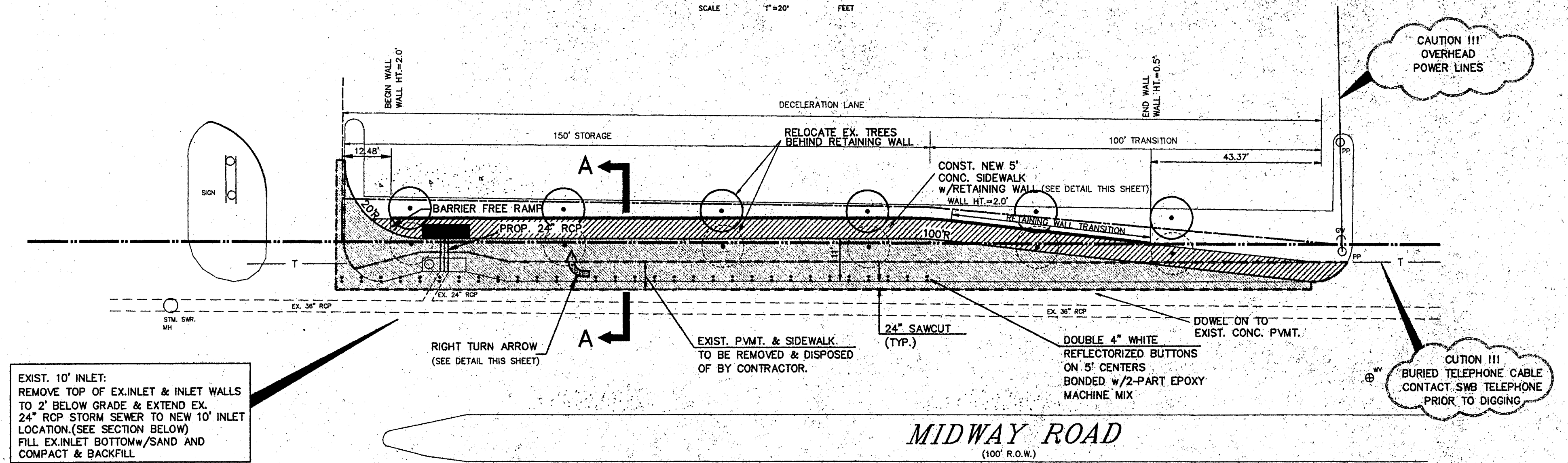
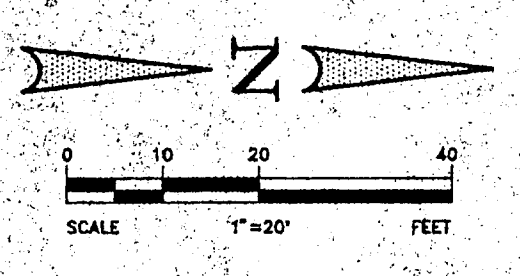
Winkelmann & Associates, Inc.
CONSULTING CIVIL ENGINEERS & SURVEYORS
14902 PRESTON ROAD, SUITE 200
DALLAS, TEXAS 75240
(214) 435-7900

THOMAS L. CHENOWETH SURVEY, ABSTRACT NO. 273
TOWN OF ADDISON, DALLAS COUNTY, TEXAS
CLIENT: MCCLITCHIN PROPERTIES
14902 PRESTON ROAD, SUITE 200
DALLAS, TEXAS 75240

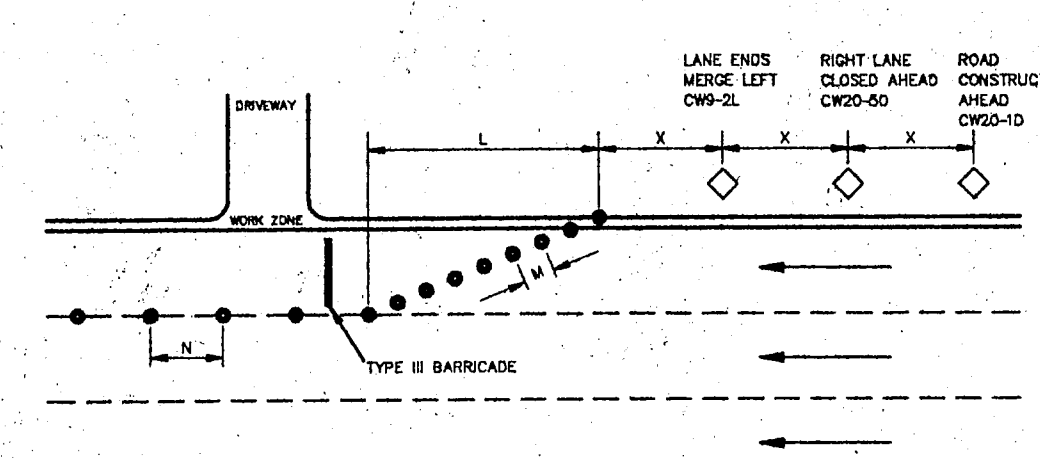
DIMENSION CONTROL AND PAVING PLAN

Scale: 1" = 50' Date: 10/18/93

Designed By: F.E.M.
Drawn By: L.H.M./J.C.
Checked By: F.E.M.
Title: 15602DM.dwg
Project No.: 15602.01

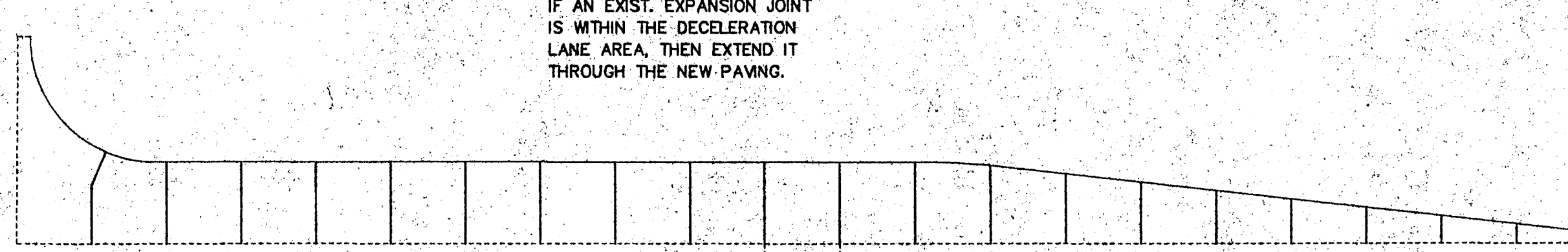


EXIST. 10' INLET:
REMOVE TOP OF EX. INLET & INLET WALLS TO 2' BELOW GRADE & EXTEND EX. 24" RCP STORM SEWER TO NEW 10' INLET LOCATION. (SEE SECTION BELOW)
FILL EX. INLET BOTTOM W/ SAND AND COMPACT & BACKFILL



NOTE:
ALL THREE LANES OF MIDWAY ROAD ARE TO BE OPEN FOR TRAFFIC DURING NIGHT TIME HOURS AND RUSH HOURS.

* NOTE:
IF AN EXIST. EXPANSION JOINT IS WITHIN THE DECELERATION LANE AREA, THEN EXTEND IT THROUGH THE NEW PAVING.



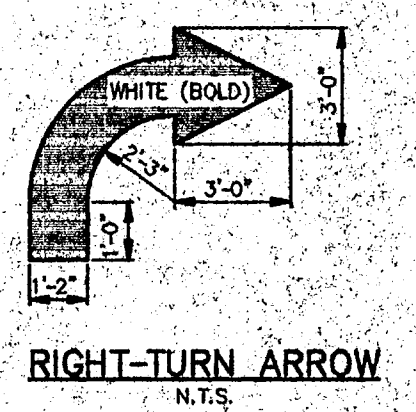
SAWED DUMMY JOINT LOCATION DIAGRAM

TRAFFIC CONTROL N.T.S.

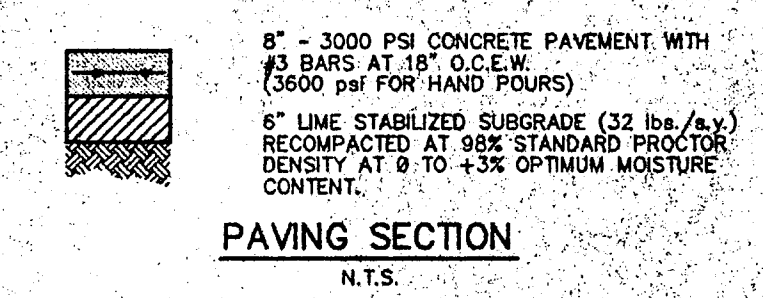
MINIMUM DESIRABLE TAPER LENGTHS AND SUGGESTED MAXIMUM SPACING OF DEVICES

POSTED SPEED	FORMULA	MINIMUM DESIRABLE TAPER LENGTHS			SUGGESTED MAXIMUM SPACING OF DEVICES		
		10' OFFSET	11' OFFSET	12' OFFSET	WARNING SIGN SIZE	ON A TAPER	ON A TANGENT
30	$L = W^2 / 2S$	150	165	180	36" x 36"	30	80-75
35		205	225	245	36" x 36"	35	70-60
40		265	285	305	45" x 45"	40	60-100
45		330	355	380	45" x 45"	45	90-110
50		400	430	460	45" x 45"	50	100-125
55		480	515	550	45" x 45"	55	110-140
60		570	610	650	45" x 45"	60	120-150

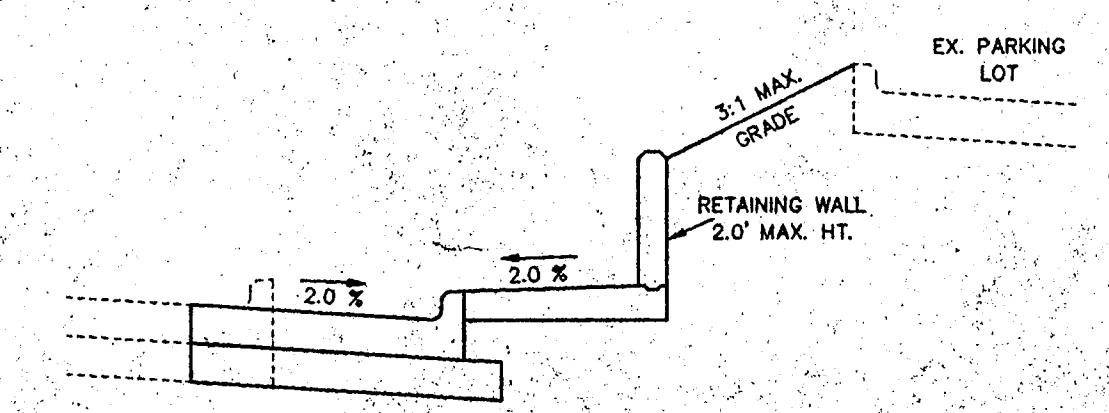
MINIMUM DISTANCE FROM WORK TO 1st ADVANCE WARNING SIGN and/or DISTANCE BETWEEN EACH ADDITIONAL SIGN.



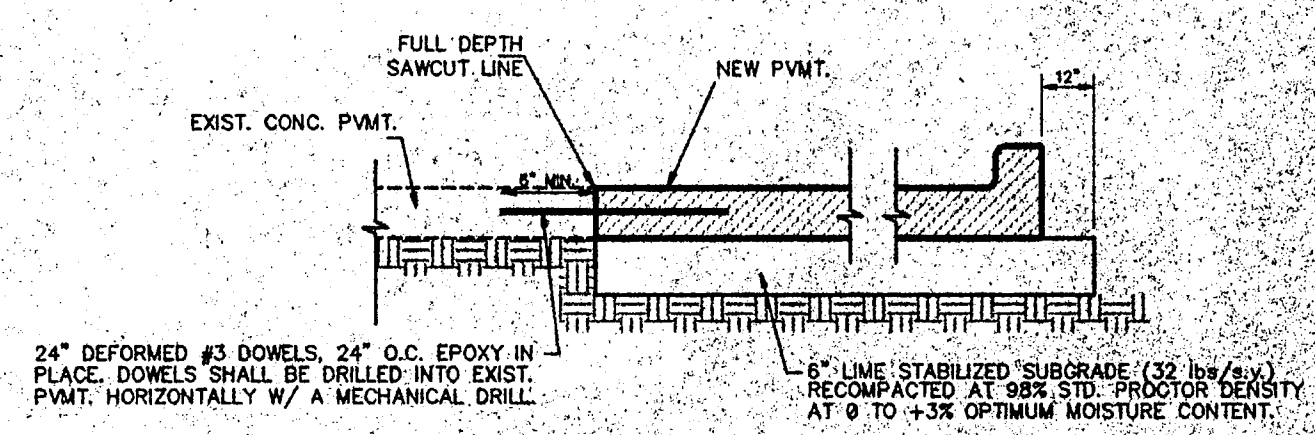
RIGHT-TURN ARROW N.T.S.



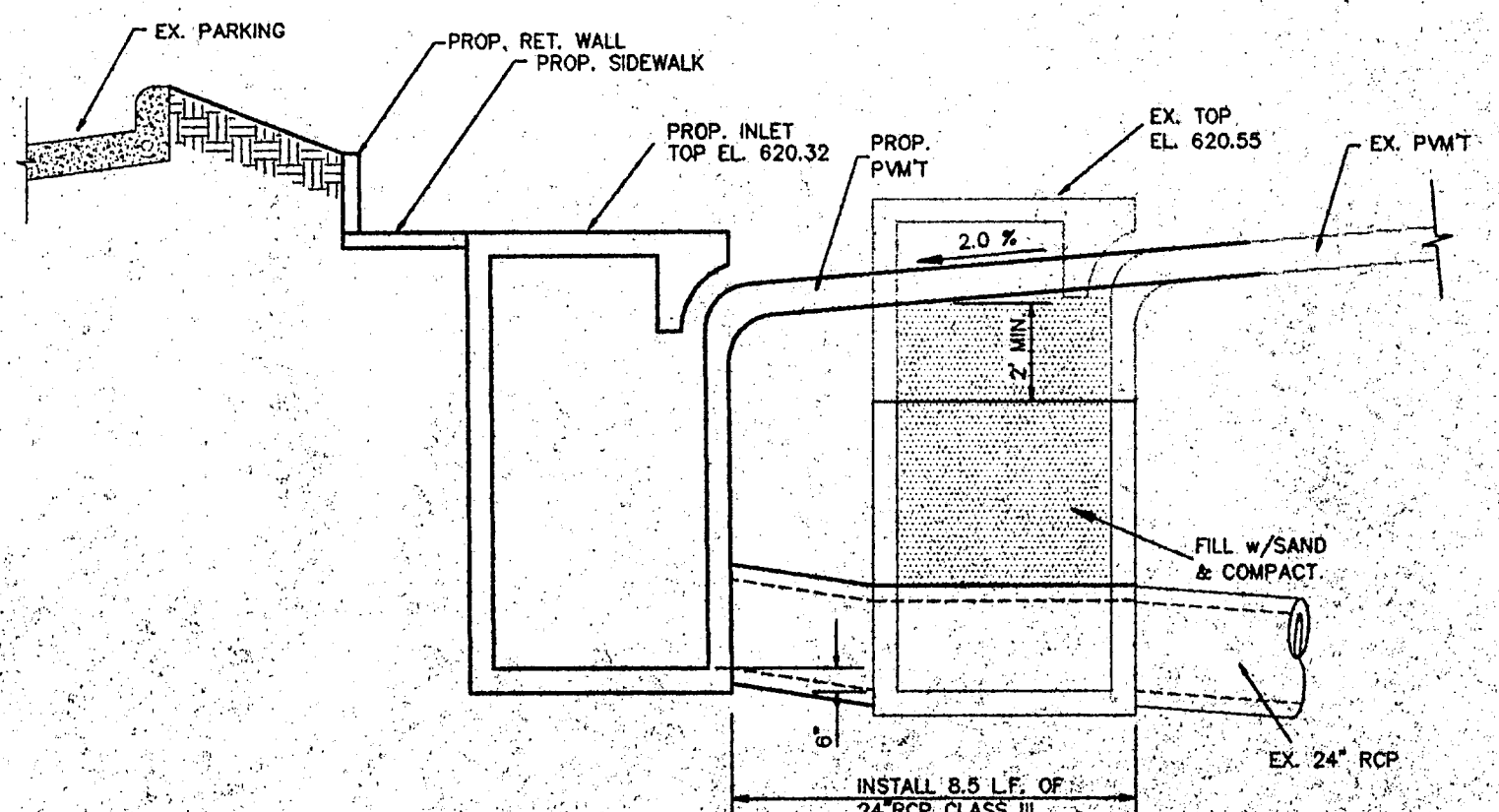
PAVING SECTION N.T.S.



SECTION A-A N.T.S.



DOWEL-ON DETAIL N.T.S.



INLET RELOCATION DETAIL N.T.S.

AS BUILT

Winkelmann & Associates, Inc. hereby certifies that this plan, to the best of our knowledge is "As Built." All modifications from the originally approved construction documents have been made as per information provided by the contractor. Winkelmann & Associates, Inc. does not certify as to the correctness or quality of construction as no field inspection was performed.

F.E. Middleton Jr.
WINKELMANN & ASSOCIATES, INC.
DATE: 10-14-94



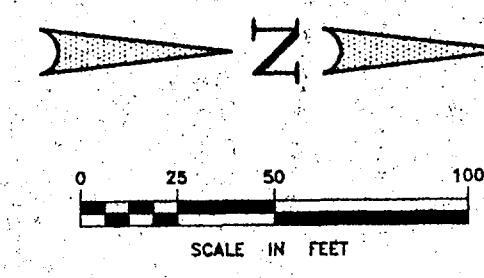
NO.	DATE	CITY COMMENTS	REVISION	F.E.M.	APPROVAL
1	1-7-94				

Winkelmann & Associates, Inc.
REGISTERED PROFESSIONAL ENGINEERS & SURVEYORS
14802 PRESTON ROAD, SUITE 200
DALLAS, TEXAS 75240
(214) 496-1996 FAX

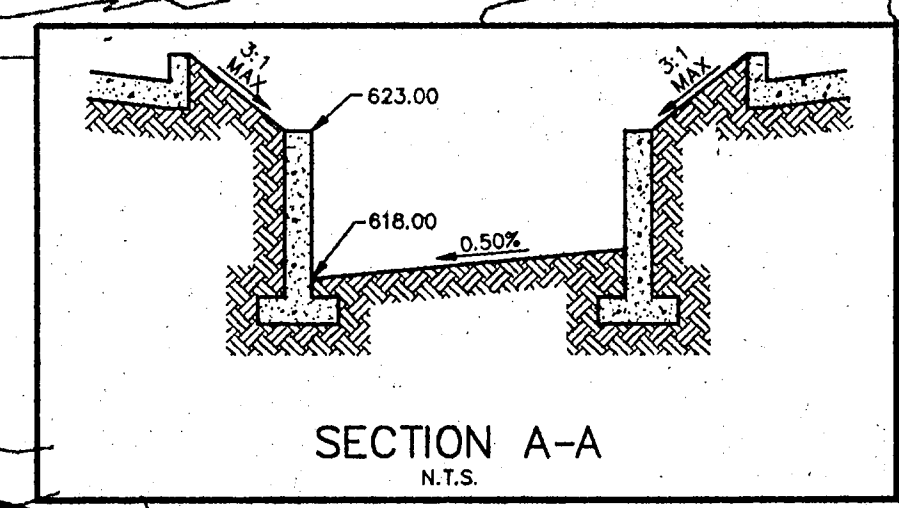
CLIENT:
THOMAS L. CHEVENEETH SURVEY,
ABSTRACT NO. 273,
TOWN OF ADDISON, DALLAS COUNTY, TEXAS
INCULTCHAY PROPERTIES
14802 PRESTON ROAD, SUITE 200
DALLAS, TEXAS 75240

DECELERATION LANE PLAN

Scale: 1"=20' Date: 11/23/93
Designed By: FEM
Drawn By: JLC
Checked By: FEM
Title: 156DECEL.LAN
Project No.: 156DECEL(20)



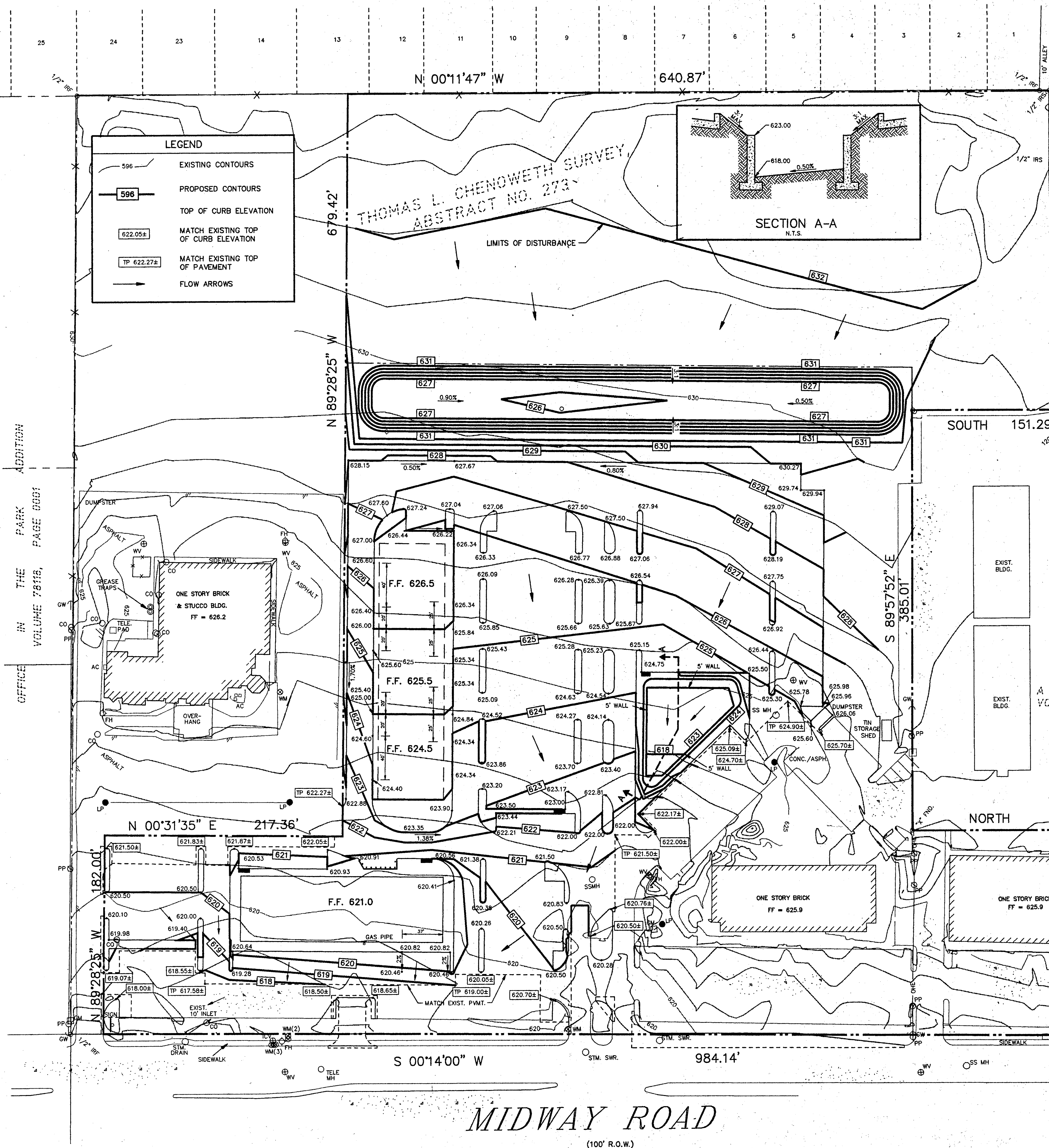
LEGEND	
	EXISTING CONTOURS
	PROPOSED CONTOURS
	TOP OF CURB ELEVATION
	MATCH EXISTING TOP OF CURB ELEVATION
	MATCH EXISTING TOP OF PAVEMENT
	FLOW ARROWS



$\Delta = 13'11'28''$
 $R = 1005.00'$
 $T = 116.20'$
 $L = 231.38'$
 $CD = 230.87'$
 $CB = N 83'31'34'' E$

- SITE GRADING GENERAL NOTES**
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE TOWN OF ADDISON STANDARDS, SPECIFICATIONS, DETAILS AND NOTED SPECIFICATIONS.
 - VEGETATION, DEBRIS, AND TOPSOIL CONTAINING ORGANIC MATERIALS SHOULD BE CLEARED AND GRUBBED FROM THE ENTIRE SITE (APPROX. DEPTH OF 8 INCHES) AT THE BEGINNING OF EARTHWORK.
 - REFERENCE CIVIL SPECIFICATIONS AND SHEET 2 FOR PAVEMENT SUBGRADE PREPARATION REQUIREMENTS. REFERENCE ARCHITECTURAL SPECIFICATIONS FOR BUILDING PAD PREPARATION. PROPOSED CONTOURS AND SPOT ELEVATIONS SHOWN IN PAVED AREAS REFLECT TOP OF PAVEMENT SURFACE. THE LIMITS OF EARTHWORK IN PAVED AREAS IS THE BOTTOM OF PAVEMENT. PROPOSED CONTOURS SHOWN OUTSIDE THE PAVED AREAS ARE THE EXACT LIMITS OF GRADING.
 - THE CONTRACTOR SHALL VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO START OF EARTHWORK AND SHALL NOTIFY THE ARCHITECT AND ENGINEER OF ANY CONFLICTS DISCOVERED. CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING UTILITIES (SHOWN OR NOT SHOWN WITHIN SCOPE OF CONSTRUCTION). IF ANY EXISTING UTILITIES ARE DAMAGED, THE CONTRACTOR SHALL REPLACE THEM AT HIS OWN EXPENSE.
 - THE CONTRACTOR SHALL MAINTAIN ADEQUATE SITE DRAINAGE DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL USE SILT FENCES AND/OR STRAW BALES (OR OTHER METHOD APPROVED BY THE TOWN OF ADDISON) AS REQUIRED TO PREVENT SILT AND CONSTRUCTION DEBRIS FROM FLOWING ONTO ADJACENT PROPERTIES. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, OR LOCAL EROSION, CONSERVATION, AND SEDIMENTATION REGULATIONS. CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL DEVICES UPON COMPLETION OF PERMANENT DRAINAGE FACILITIES AND THE ESTABLISHMENT OF STAND OF GRASS OR OTHER GROWTH TO PREVENT EROSION.
 - ROUGH GRADING UNDER PROPOSED PAVING AND ALL GENERAL SITE ROUGH GRADING SHALL BE BROUGHT TO WITHIN +/- 0.1 FOOT. SEE ARCHITECTURAL PLANS FOR ROUGH GRADING ELEVATIONS IN BUILDING PAD AREA.
 - THE CONTRACTOR SHALL TAKE ALL AVAILABLE PRECAUTIONS TO CONTROL DUST. CONTRACTOR SHALL CONTROL DUST BY SPRINKLING WATER, OR BY OTHER MEANS APPROVED BY THE ARCHITECT, ENGINEER, AND THE OWNER, AT NO ADDITIONAL COST TO THE OWNER.
 - THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ANY EXISTING STRUCTURES, FENCES, DEBRIS, OR TREES ON SITE, AND SHALL COORDINATE ALL REMOVAL WITH THE GENERAL CONTRACTOR. NO TREES OR OTHER ITEMS SHALL BE REMOVED WITHOUT THE APPROVAL OF THE ARCHITECT, ENGINEER, AND OWNER. ALL TREES NOT REMOVED SHALL BE GUARDED AND PRESERVED DURING CONSTRUCTION. IF DAMAGED, THE EXISTING TREE WILL BE REPLACED (EQUAL CALIPER) AT THE CONTRACTOR'S EXPENSE.
 - THE CONTRACTOR SHALL EMPLOY, AT HIS EXPENSE, A QUALIFIED SOILS LAB TO DETERMINE THE EXISTING SUBGRADE AND ON SITE NATIVE MATERIAL IS WITHIN SPECIFICATIONS PRIOR TO STARTING FILL OPERATIONS.
 - ALL EXCAVATING IS UNCLASSIFIED AND SHALL INCLUDE ALL MATERIALS ENCOUNTERED. UNUSABLE EXCAVATED MATERIAL AND ALL WASTE RESULTING FROM SITE CLEARING AND GRUBBING SHALL BE DISPOSED OF OFF SITE BY THE GRADING CONTRACTOR AT HIS EXPENSE.
 - BEFORE ANY EARTHWORK IS DONE, THE CONTRACTOR SHALL STAKE OUT AND MARK THE LIMITS OF PAVEMENT AND OTHER ITEMS ESTABLISHED BY THE PLANS. THE CONTRACTOR SHALL PROTECT AND PRESERVE CONTROL POINTS AT ALL TIME DURING THE COURSE OF THE PROJECT. THE GRADING CONTRACTOR SHALL PROVIDE ALL NECESSARY ENGINEERING AND SURVEYING FOR LINE AND GRADE CONTROL POINTS RELATED TO EARTHWORK.
 - THE CONTRACTOR SHALL SALVAGE AND PROTECT ALL EXISTING POWER POLES, SIGNS, MANHOLES, TELEPHONE RISERS, WATER VALVES, ETC. DURING ALL CONSTRUCTION PHASES.

OFFICE IN THE PARK ADDITION
VOLUME 78118, PAGE 0001

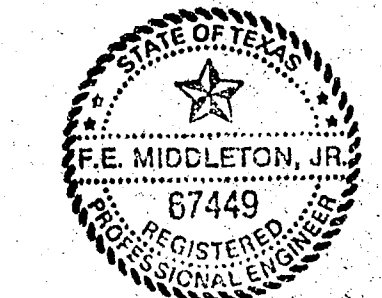


$\Delta = 04'07'59''$
 $R = 945.00'$
 $T = 34.10'$
 $L = 68.17'$
 $CD = 68.15'$
 $CB = N 88'05'28'' E$

AS BUILT

Winkelmann & Associates, Inc. hereby certifies that this plan, to the best of our knowledge is "As Built." All modifications from the originally approved construction documents have been made as per information provided by the contractor. Winkelmann & Associates, Inc. does not certify as to the correctness or quality of construction as no field inspection was performed.

[Signature]
WINKELMANN & ASSOCIATES, INC. DATE: 10-14-94



BENCHMARK NO. 1:
1" CUT IN CURB LOCATED ON NORTHEAST CORNER OF AN INLET ON THE WEST SIDE OF MIDWAY ROAD APPROXIMATELY 911 FEET SOUTH OF BELTWAY DRIVE. ELEV. = 615.72

BENCHMARK NO. 2:
1" CUT IN CURB LOCATED ON SOUTH SIDE OF BELTWAY DRIVE APPROXIMATELY 627 FEET EAST OF MIDWAY ROAD. ELEV. = 631.63

REVISED POND	CITY COMMENTS	REVISION	DATE	APPROVAL
3	2-2-94			
2	1-7-94			
1	12/76/93			

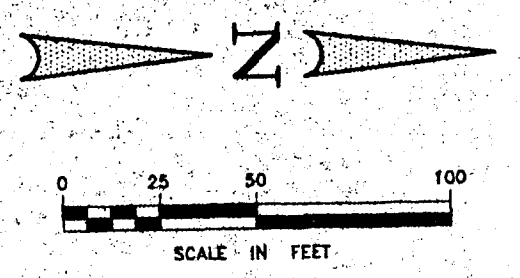


THOMAS L. CHENOWETH SURVEY,
ABSTRACT NO. 273
TOWN OF ADDISON, DALLAS COUNTY, TEXAS
CLIENT: MCGUTCHIN PROPERTIES,
14902 PRESTON ROAD, SUITE 200
DALLAS, TEXAS 75260

GRADING PLAN

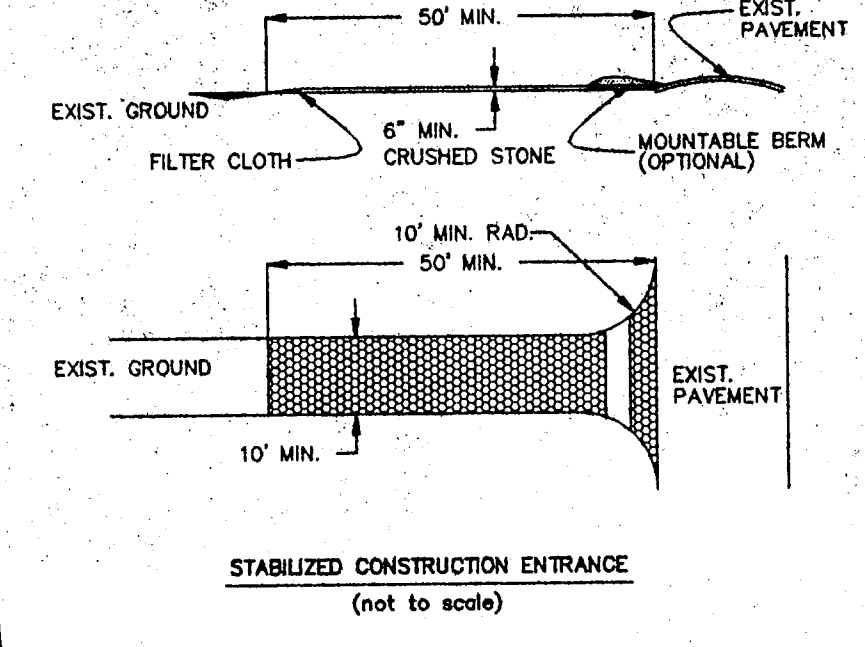
Scale: 1" = 50' Date: 10/93
Designed By: T.L.
Drawn By: T.L.
Checked By: F.E.M.
File: 15602RRD.twy
Project No.: 1560201

SHEET
4A
OF
19



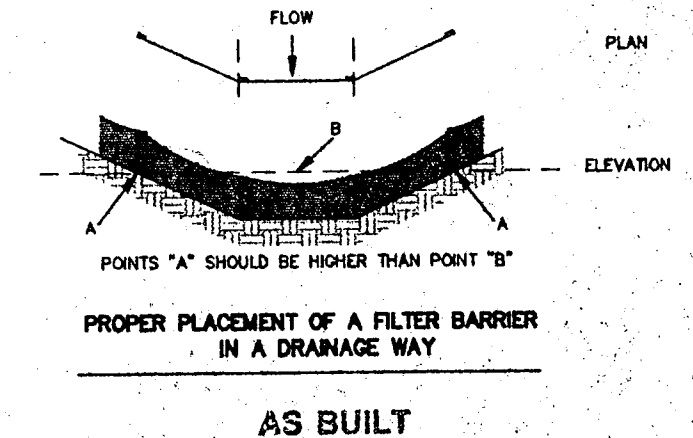
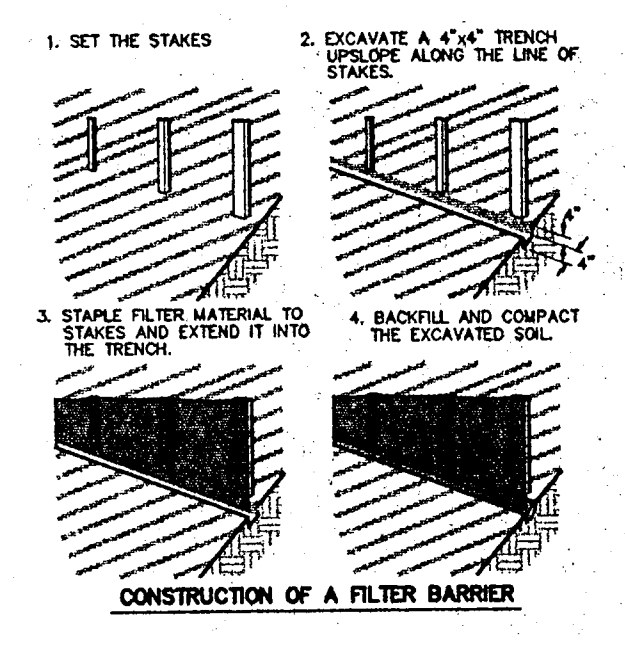
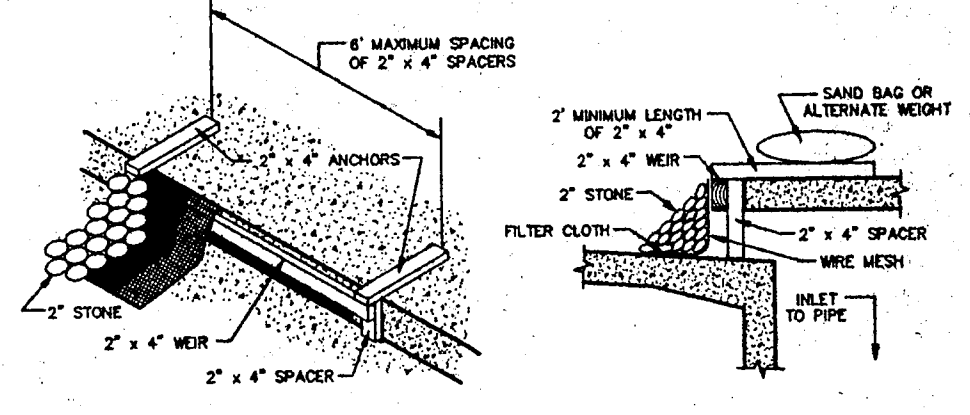
LEGEND	
	PROPOSED CONTOURS
	FLOW ARROWS
	INLET PROTECTION
	SILT FENCE

NOTE: CONTRACTOR SHALL SEED AND FERTILIZE ALL DISTURBED AREAS (EXCEPT THOSE WITHIN LANDSCAPED AREAS) UNTIL SUFFICIENT GRASS GROWTH HAS BEEN PROVIDED TO STOP EROSION. SILT FENCES AND INLET PROTECTION SHALL REMAIN IN PLACE AND IN GOOD WORKING CONDITION UNTIL GRASS HAS BEEN ESTABLISHED.



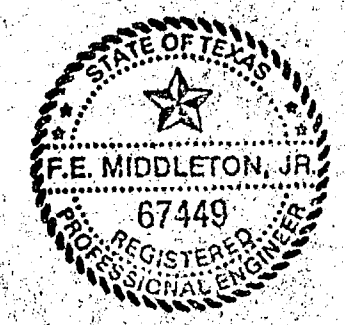
- STORM DRAIN INLET PROTECTION CONSTRUCTION SPECIFICATIONS**
- WOODEN FRAME IS TO BE CONSTRUCTED OF 2" X 4" CONSTRUCTION GRADE LUMBER.
 - WIRE MESH MUST BE OF SUFFICIENT STRENGTH TO SUPPORT FILTER FABRIC AND STONE FOR CURB INLETS, WITH WATER FULLY IMPOUNDED AGAINST IT.
 - FILTER CLOTH MUST BE OF A TYPE APPROVED FOR THIS PURPOSE, RESISTANT TO SLOUGHT WITH SIEVE SIZE, EDS, 40-85, TO ALLOW SUFFICIENT PASSAGE OF WATER AND REMOVAL OF SEDIMENT.
 - STONE IS TO BE 2" IN SIZE AND CLEAN, SINCE FINES WOULD CLOG THE CLOTH.
 - THE ASSEMBLY SHALL BE PLACED SO THAT THE END SPACERS ARE A MINIMUM 1" BEYOND BOTH ENDS OF THE THROAT OPENING.
 - FORM THE WIRE MESH AND FILTER CLOTH TO THE CONCRETE OUTER AND AGAINST THE FACE OF CURB ON BOTH SIDES OF THE INLET. PLACE CLEAN 2" STONE OVER THE WIRE MESH AND FILTER FABRIC IN SUCH A MANNER AS TO PREVENT WATER FROM ENTERING THE INLET UNDER OR AROUND THE FILTER CLOTH.
 - THIS TYPE OF PROTECTION MUST BE INSPECTED FREQUENTLY AND THE FILTER CLOTH AND STONE REPLACED WHEN CLOGGED WITH SEDIMENT.
 - ASSURE THAT STORM FLOW DOES NOT BYPASS INLET BY INSTALLING TEMPORARY EARTH OR ASPHALT DIKES DIRECTING FLOW INTO INLET.

- EROSION CONTROL GENERAL NOTES**
- STEEL POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE.
 - THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER SO THAT THE DOWN-SLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW.
 - THE TRENCH SHOULD BE A MINIMUM OF 6 INCHES DEEP AND 3'-4 FEET WIDE TO ALLOW FOR THE SILT FENCE TO BE LAD IN THE GROUND AND BACKFILLED.
 - SILT FENCE SHOULD BE SECURELY FASTENED TO EACH STEEL SUPPORT POST OR TO WOVEN WIRE WHICH IS TIGHTLY ATTACHED TO THE STEEL FENCE POSTS.
 - INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
 - SILT FENCE SHALL BE REMOVED WHEN IT HAS SERVED ITS USEFULNESS, SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
 - SEDIMENT TRAPPED BY THIS PRACTICE SHALL BE DISPOSED OF IN AN APPROVED SITE IN A MANNER THAT WILL NOT CONTRIBUTE TO ADDITIONAL SILTATION.
 - ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 6 INCHES AND DISPOSED OF IN AN APPROVED SPILL SITE OR AS IN NO. 7 ABOVE.
 - EROSION PROTECTION WILL BE DELETED OR ADDED PER THE TOWN OF ADDISON.
 - CONTRACTOR TO PROTECT STORM SEWER SYSTEM FROM SILTATION BY PLACING HAYBALES AROUND STORM INLETS AFTER THEIR CONSTRUCTION.
- STANDARDS FOR SILT FENCE**
- DEFINITION**
TEMPORARY BARRIER FENCE MADE OF BURLAP OR POLYPROPYLENE MATERIAL WHICH IS WATER PERMEABLE BUT WILL TRAP WATER - BORNE SEDIMENT.
- PURPOSE**
TO INTERCEPT AND DETAIN WATER - BORNE SEDIMENT FROM UNPROTECTED AREAS OF LIMITED EXTENT.
- CONDITIONS WHERE PRACTICE APPLIES**
SILT FENCE IS USED DURING THE PERIOD OF CONSTRUCTION NEAR THE PERIMETER OF A DISTURBED AREA TO INTERCEPT SEDIMENT WHILE ALLOWING WATER TO PERCOLATE THROUGH. THIS FENCE SHALL REMAIN IN PLACE UNTIL THE DISTURBED AREA IS PERMANENTLY STABILIZED. SILT FENCE SHOULD NOT BE USED WHERE THERE IS A CONCENTRATION OF WATER IN A CHANNEL OR OTHER DRAINAGE WAY.
- DESIGN CRITERIA**
SILT FENCE IS CONSTRUCTED NEAR THE PERIMETER OF A DISTURBED SITE WITHIN THE DEVELOPING AREA. IT IS NOT TO BE CONSTRUCTED OUTSIDE THE PROPERTY LINES WITHOUT OBTAINING A LETTER OF PERMISSION FROM THE AFFECTED ADJACENT PROPERTY OWNERS.
- A DESIGN IS NOT REQUIRED FOR THE INSTALLATION OF THE SILT FENCE. HOWEVER, THE FOLLOWING CRITERIA SHALL BE OBSERVED:
- DRAINAGE AREA - LESS THAN TWO ACRES
 - HEIGHT - 30 INCHES MINIMUM HEIGHT MEASURED FROM EXISTING OR GRADED GROUND.
 - MATERIAL - BURLAP, POLYPROPYLENE FABRIC, OR NYLON REINFORCED WITH POLYESTER NETTING. THE MULLEN BURST STRENGTH SHALL BE GREATER THAN 150 PSI. THE EDGES SHALL BE TREATED TO UNRAVELING UNBRAIDING.
 - SUPPORT - STEEL FENCE POSTS SPACED A MAXIMUM OF 8 FEET APART. WOVEN WIRE WILL BE USED TO SUPPORT THE MATERIAL.
- OUTLET**
SILT FENCE SHALL BE PLACED AND CONSTRUCTED IN SUCH A MANNER THAT RUNOFF FROM A DISTURBED SURFACE OR EXPOSED UPLAND AREA SHALL BE INTERCEPTED, SEDIMENT TRAPPED, AND THE SURFACE RUNOFF ALLOWED TO PERCOLATE THROUGH THE STRUCTURE. SILT FENCE SHALL BE PLACED IN SUCH A MANNER THAT SURFACE RUNOFF WHICH PERCOLATES THROUGH WILL FLOW ONTO AN UNDISTURBED STABILIZED AREA OR STABILIZED OUTLET.



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Tom Winkelmann
DATE: 10-11-94



BENCHMARK NO. 1:
1" CUT IN CURB LOCATED ON NORTHEAST CORNER OF AN INLET ON THE WEST SIDE OF MIDWAY ROAD APPROXIMATELY 911 FEET SOUTH OF BELTWAY DRIVE. ELEV. = 615.72

BENCHMARK NO. 2:
2" CUT IN CURB LOCATED ON SOUTH SIDE OF BELTWAY DRIVE APPROXIMATELY 627 FEET EAST OF MIDWAY ROAD. ELEV. = 631.83

REVISED POND	DATE	CITY COMMENTS	REVISION	APPROV.
2	2-2-94			
1	1-7-94			

Winkelmann & Associates, Inc.
CONSULTING CIVIL ENGINEERS • SURVEYORS
1300 INDEPENDENT WOOD, SUITE 200
DALLAS, TEXAS 75207
(214) 496-7996 FAX
(214) 496-7998



THOMAS L. CHENOWETH SURVEYOR
ABSTRACT NO. 273
TOWN OF ADDISON, DALLAS COUNTY, TEXAS
MCCUTCHIN PROPERTIES
14902 PRESTON ROAD, SUITE 200
DALLAS, TEXAS 75240
CLIENT:

EROSION CONTROL PLAN

Scale: 1" = 50' Date: 1/94
Designed By: T.L.
Drawn By: T.L.
Checked By: F.E.M.
File: IS60200.dwg
Project No.: IS602.01

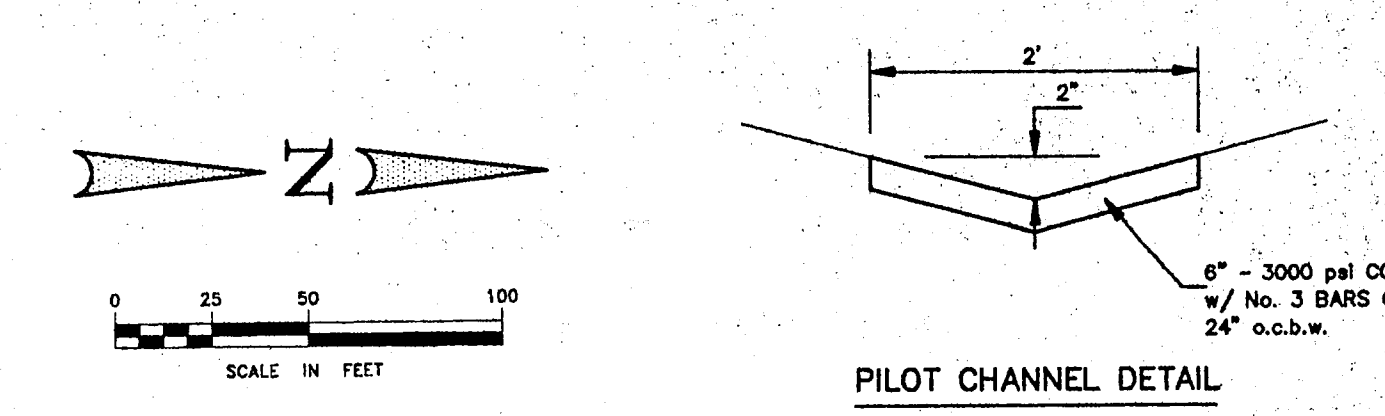
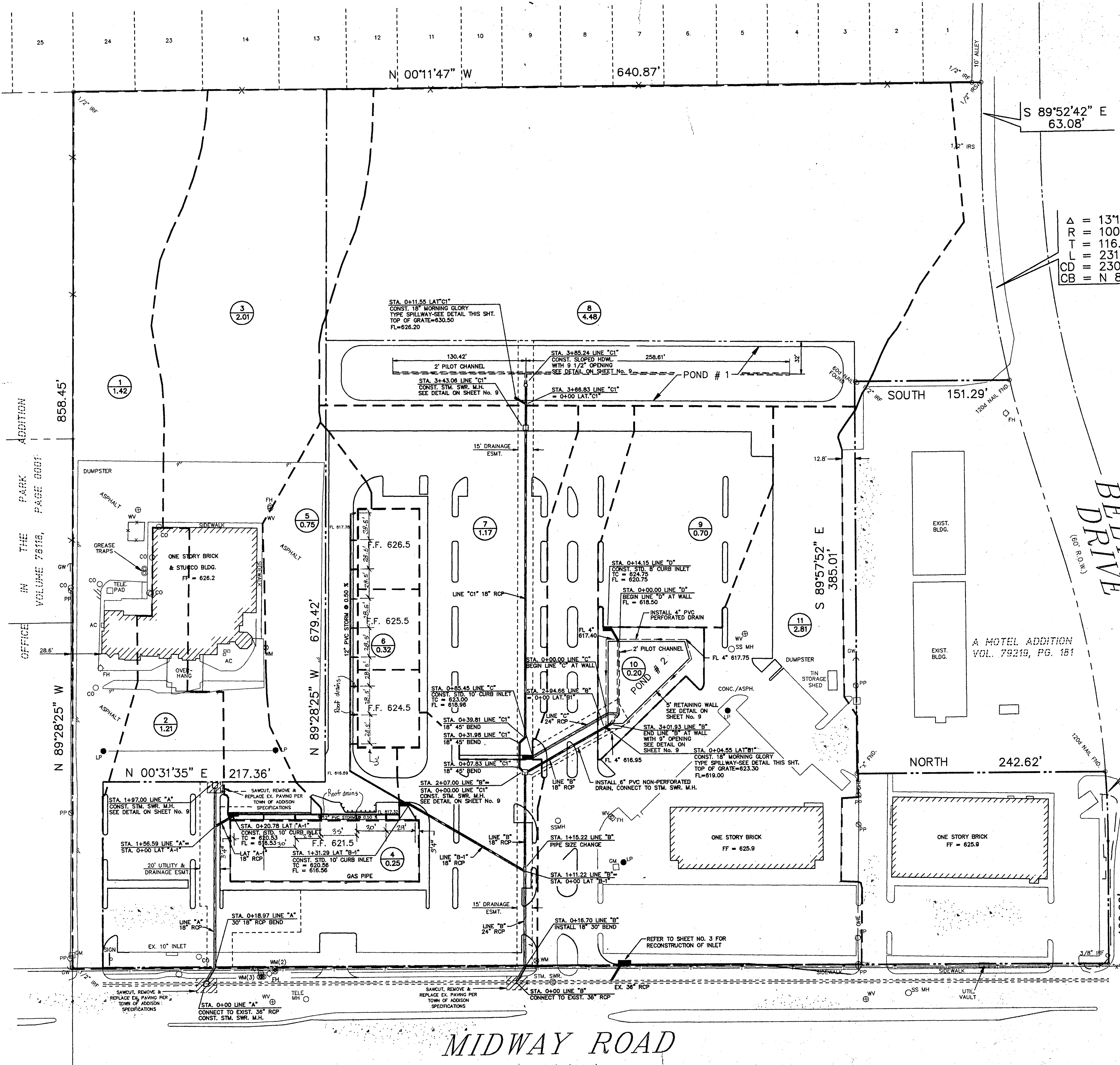
SHEET
43
OF
16

OFFICE IN THE PARK ADDITION
VOLUME 7818, PAGE 8001

MIDWAY ROAD
(100' R.O.W.)

BELTWAY DRIVE
(60' R.O.W.)

A MOTEL ADDITION
VOL. 79219, PG. 181



LEGEND

- 6 (Area No. 6) - DRAINAGE AREA NO. AREA IN ACRES
- PROPOSED DRAINAGE DIVIDE
- ==== PROPOSED STORM SEWER SYSTEM

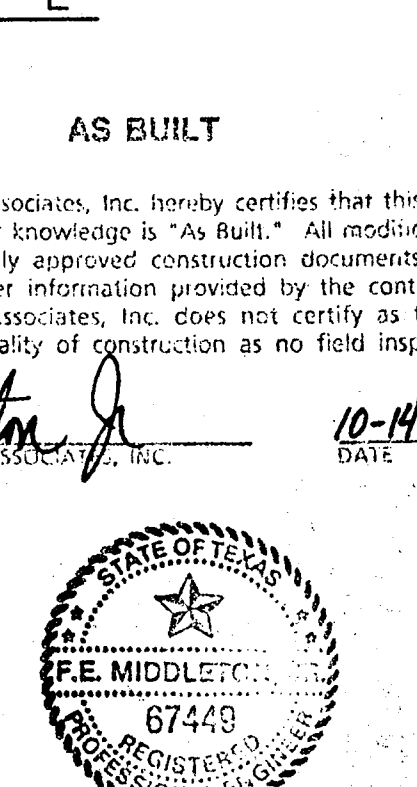
Δ = 13'11.28"
R = 1005.00'
T = 116.20'
L = 231.38'
CD = 230.87'
CB = N 83°31'34" E

DRAINAGE CALCULATIONS

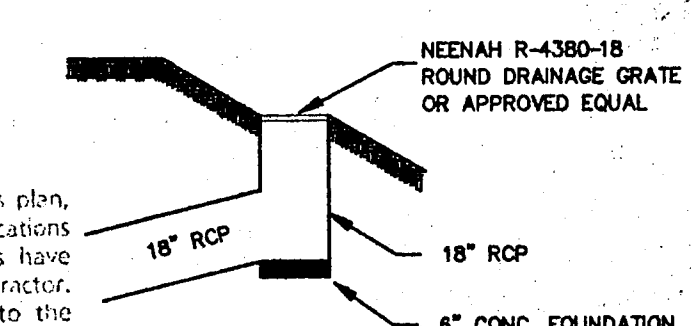
AREA NO.	AREA (ACRES)	RUNOFF COEFF. "C"	TIME OF CONC. "tc"	INTENSITY (IN./HR)	Q ₁₀₀ = 100 (c.f.a.)	COMMENTS
1	1.42	0.54	8.50	9.1	6.98	DRAINS TO MIDWAY RD.
2	1.21	0.65	17.03	7.3	6.74	DRAINS TO EXIST. 10' INLET
3	2.01	0.49	18.69	7.0	6.89	DRAINS TO PROP. 10' INLET
4	0.25	0.90	5.00	10.5	2.36	ROOF DRAINS
5	0.75	0.88	16.17	7.5	4.95	DRAINS TO PROP. 10' INLET
6	0.32	0.90	5.00	10.5	3.02	ROOF DRAINS
7	1.17	0.90	13.33	8.0	8.42	DRAINS TO PROP. 10' INLET, THEN TO POND "2"
8	4.48	0.35	5.80	10.0	15.68	DRAINS INTO POND "1"
9	0.70	0.90	11.80	8.2	5.17	DRAINS TO PROP. 8' INLET, THEN TO POND "2"
10	0.20	0.35	5.00	10.5	0.74	POND "2"
11	2.81	0.90	5.51	10.6	26.81	DRAINS TO MIDWAY RD.

- POND NO. 1 HAS A STORAGE VOLUME OF 76,387 CUBIC FEET. THE 100-YEAR W.S. ELEVATION IS 620.00. IT HAS BEEN DESIGNED TO PICK UP ALL OF AREA NO. 8 FOR FULLY DEVELOPED CONDITIONS AND HAS A MAXIMUM ALLOWABLE RELEASE RATE OF 5 CFS.
- POND NO. 2 HAS A STORAGE VOLUME OF 19,738 CUBIC FEET. THE 100-YEAR W.S. ELEVATION IS 623.00. IT HAS BEEN DESIGNED TO PICK UP THE DISCHARGE FROM AREAS 7, 9, AND 10. IT HAS A MAXIMUM DISCHARGE RATE OF 5 CFS.
- STORM SEWER LINE "A" HAS BEEN DESIGNED TO PICK UP THE EXISTING RESTAURANT SITE IN ITS EXISTING CONDITION. ANY DEVELOPMENT OF AREAS 1 OR 3 WHICH WOULD INCREASE RUN-OFF, MUST MEET THE TOWN OF ADDISON DRAINAGE CRITERIA FOR DETENTION.
- EXISTING FLOW TO MIDWAY ROAD IS 35.97 CFS; PROPOSED 33.79 CFS.

DRAINAGE CRITERIA
Q = CIA
Q = 100 YEAR STORM
C = COEFFICIENT OF RUN-OFF: 0.90 (PAVED AREA); 0.35 (GRASS AREA)
I = INTENSITY, FROM HYDRO-35, DATED JUNE, 1977
A = DRAINAGE AREA IN ACRES



AS BUILT
Winkelmann & Associates, Inc. hereby certifies that this plan, to the best of our knowledge is "As Built." All modifications from the originally approved construction documents have been made as per information provided by the contractor. Winkelmann & Associates, Inc. does not certify as to the correctness or quality of construction as no field inspection was performed.
10-11-99 DATE



BENCHMARK NO. 1:
"I" CUT IN CURB LOCATED ON NORTHEAST CORNER OF AN INLET ON THE WEST SIDE OF MIDWAY ROAD APPROXIMATELY 911 FEET SOUTH OF BELTWAY DRIVE. ELEV. = 615.72

BENCHMARK NO. 2:
"I" CUT IN CURB LOCATED ON SOUTH SIDE OF BELTWAY DRIVE APPROXIMATELY 627 FEET EAST OF MIDWAY ROAD. ELEV. = 631.63

NO.	REVISION	DATE	BY	APPROVED BY
3	2-2-94			
2	1-7-94			
1	12/6/93			

THOMAS L. CHENEY SURVEY
TOWN OF ADDISON, DALLAS COUNTY, TEXAS
CLIENT: WINKELMANN & ASSOCIATES, INC.
14002 S. PROSPER ROAD, SUITE 200
DALLAS, TEXAS 75380

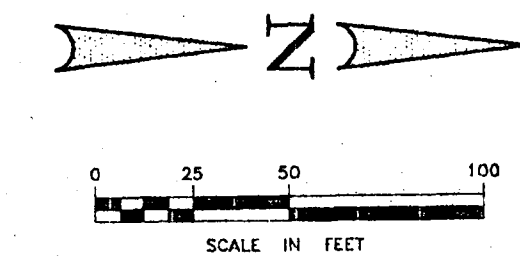
DRAINAGE PLAN

Scale: 1" = 50' Date: 10/93
Designed By: T.L.
Drawn By: T.L.
Checked By: F.E.M.
File: 15602STM.dwg
Project No.: 15602.01

SHEET 5 OF 18

WATER METER SCHEDULE

TYPE	SIZE	NO.
DOMESTIC	1"	7
IRRIGATION	2"	1

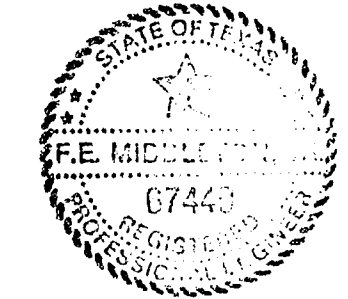


- LEGEND**
- POWER POLE ○ PP
 - LIGHT POLE ● LP
 - TP&L MANHOLE ○ TP&L MH
 - TELEPHONE MANHOLE ○ TELE MH
 - FIRE HYDRANT ○ FH
 - WATER METER ○ WM
 - WATER VALVE ○ WV
 - SPRINKLER BOX ○ SB
 - STORM SEWER MANHOLE ○ STM MH
 - SANITARY SEWER MANHOLE ○ SS MH
 - GAS VALVE ○ GV
 - OVERHEAD POWER LINES ○ HE
 - FOUND IRON ROD ○ FIR
 - SET IRON ROD ○ SIR
 - CONCRETE PAVING [Symbol]
 - ASPHALT PAVING [Symbol]
 - IRRIGATION CONTROL VALVE ○ ICV
 - CABLE TV BOX ○ CATV
 - GUY WIRE ○ GW
 - GREASE TRAP(1500 gal.) w/6" SERVICE [Symbol]

AS BUILT

Winkelmann & Associates, Inc. hereby certifies that this plan, to the best of our knowledge is "As Built." All modifications from the originally approved construction documents have been made as per information provided by the contractor. Winkelmann & Associates, Inc. does not certify as to the correctness of quality of construction as no field inspection was performed.

[Signature]
WINKELMANN & ASSOCIATES, INC.
DATE: 10-14-99



- WATER AND SANITARY SEWER GENERAL NOTES**
1. ALL CONSTRUCTION MATERIALS AND PROCEDURES SHALL ADHERE TO THE TOWN OF ADDISON STANDARD DETAILS AND SPECIFICATIONS AND THE NCTCO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION. ALL MATERIALS SHALL BE U.L. LISTED AND FACTORY MUTUAL APPROVED UNLESS DIRECTED OTHERWISE BY THE ENGINEER, OR THE TOWN OF ADDISON.
 2. THE CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UTILITIES PRIOR TO START OF CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND ARCHITECT IMMEDIATELY IF A CONFLICT IS DISCOVERED.
 3. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS SHOWN, COORDINATING THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITY SERVICES ENTERING THE BUILDING AND/OR CROSSING OTHER UTILITIES.
 4. ALL WATER AND SANITARY SEWER SERVICES SHALL TERMINATE 5 FEET OUTSIDE THE BUILDING UNLESS NOTED OTHERWISE. THE END OF THESE SERVICES SHALL BE TIGHTLY PLUGGED OR CAPPED AND MARKED UNTIL THE CONNECTION IS MADE TO THE BUILDING PIPING.
 5. THE SITE UTILITY CONTRACTOR SHALL PROVIDE ALL MATERIALS AND APPURTENANCES NECESSARY FOR COMPLETE INSTALLATION OF THE UTILITIES. ALL PIPE, STRUCTURES, AND FITTINGS SHALL BE INSPECTED BY THE CITY WATER DEPARTMENT AND/OR CODE ENFORCEMENT INSPECTOR PRIOR TO BEING COVERED. THE INSPECTOR MUST ALSO BE PRESENT DURING DISINFECTION AND PRESSURE TESTING OF ALL MAINS.
 6. ALL WATER MAINS ARE TO BE AS SHOWN ON THE DRAWINGS. WATER MAINS 6" AND 8" SHALL HAVE A MIN. COVER OF 48 INCHES FROM FINISHED GRADE TO TOP OF PIPE, 10" AND 12", 60 INCHES, AND SHALL BE BEDDED AND BACKFILLED IN ACCORDANCE WITH THE TOWN OF ADDISON STANDARD DETAILS. ALL FIRE HYDRANTS, FITTINGS AND PIPE ENDS SHALL BE BLOKED WITH CONCRETE PER CITY DETAILS.
 7. ALL WATER SERVICES 2 INCHES AND SMALLER SHALL BE TYPE "K" COPPER. ALL OTHER LINES SHALL BE PVC CLASS 150 DR 18.
 8. ALL FIRE HYDRANTS SHALL BE PRIMED AND PAINTED WITH A MACHINE IMPLEMENT GRADE ENAMEL PAINT. THE HYDRANT BODY AND BONNET SHALL BE PAINTED IN ACCORDANCE WITH THE TOWN OF ADDISON STANDARDS. FIRE HYDRANTS SHALL BE MUELLER CENTURION MODEL.
 9. ALL APPURTENANCES USED FOR FIRE PROTECTION SHALL CONFORM TO THE CURRENT TOWN OF ADDISON FIRE DEPARTMENT STANDARDS AND SPECIFICATIONS.
 10. THE CONTRACTOR IS RESPONSIBLE FOR THE CONTINUATION OF THE FIRE LINE. THE CONTRACTOR SHALL SUBMIT A FIRE LINE DESIGN PLAN PREPARED, SIGNED AND SCALED BY A LICENSED SPRINKLER CONTRACTOR.
 11. ALL SANITARY SEWER MAINS AND LATERALS SHALL BE SDR 35 PVC (ASTM 3034) AND SHALL HAVE INTEGRAL WALL BELL AND SPIGOT JOINTS.
 12. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR SITE TRENCH SAFETY DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT A TRENCH EXCAVATION PROTECTION PLAN PREPARED, SIGNED, AND SEALED BY A GEOTECHNICAL ENGINEER REGISTERED IN THE STATE OF TEXAS, FOR ALL CONSTRUCTION IN EXCAVATIONS DEEPER THAN 5 FEET, PRIOR TO START OF CONSTRUCTION. SAID SAFETY PLAN SHALL CONFORM TO ALL APPLICABLE FEDERAL AND STATE LAWS REGARDING EXCAVATING AND TRENCHING OPERATIONS.
 13. THE TOWN OF ADDISON WILL INSPECT ALL "PUBLIC" CONSTRUCTION. THE CONTRACTORS BID PRICE SHALL INCLUDE ALL INSPECTION FEES.
 14. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING "AS-BUILT" PLANS TO THE ENGINEER SHOWING THE LOCATION OF SEWER SERVICE BY DISTANCE TO THE LOT LINES.
 15. ALL MANHOLES, CLEANOUTS, VALVE BOXES, FIRE HYDRANTS, ETC., MUST BE ADJUSTED TO PROPER LINE AND GRADE BY THE CONTRACTOR AFTER PLACING OF PERMANENT PAVING.
 16. ALL UTILITY AND SERVICE LATERAL TRENCHES SHALL BE BACKFILLED AND COMPACTED TO 95% STD. PROCTOR DENSITY.
 17. A NO. 12 PLASTIC COATED WIRE SHALL BE PLACED IN THE TRENCH OVER ALL WATER LINES. THE WIRE WILL BE TIED TO ALL VALVES AND FIRE HYDRANTS AND ATTACHED DIRECTLY TO THE TOP OF PIPE AND EXTENDED TO SIX (6) INCHES ABOVE THE FINISHED GRADE ALONG THE OUTSIDE OF ALL VALVE STAKES AND FIRE HYDRANTS.
 18. ALL DIMENSIONS SHOWN ARE TO CENTERLINE OF PIPE AND THE R.O.W., UNLESS OTHERWISE NOTED.
 19. WHERE WATER AND SANITARY SEWER LINES CROSS, A 20" SECTION OF WATER LINE SHALL BE CENTERED ON THE SEWER LINE.
 20. THE CONTRACTOR SHALL COORDINATE WATERLINE WORK TO PROVIDE SERVICE DURING BUSINESS HOURS, TO THE EXISTING ONE STORY BRICK & STUCCO BUILDING.

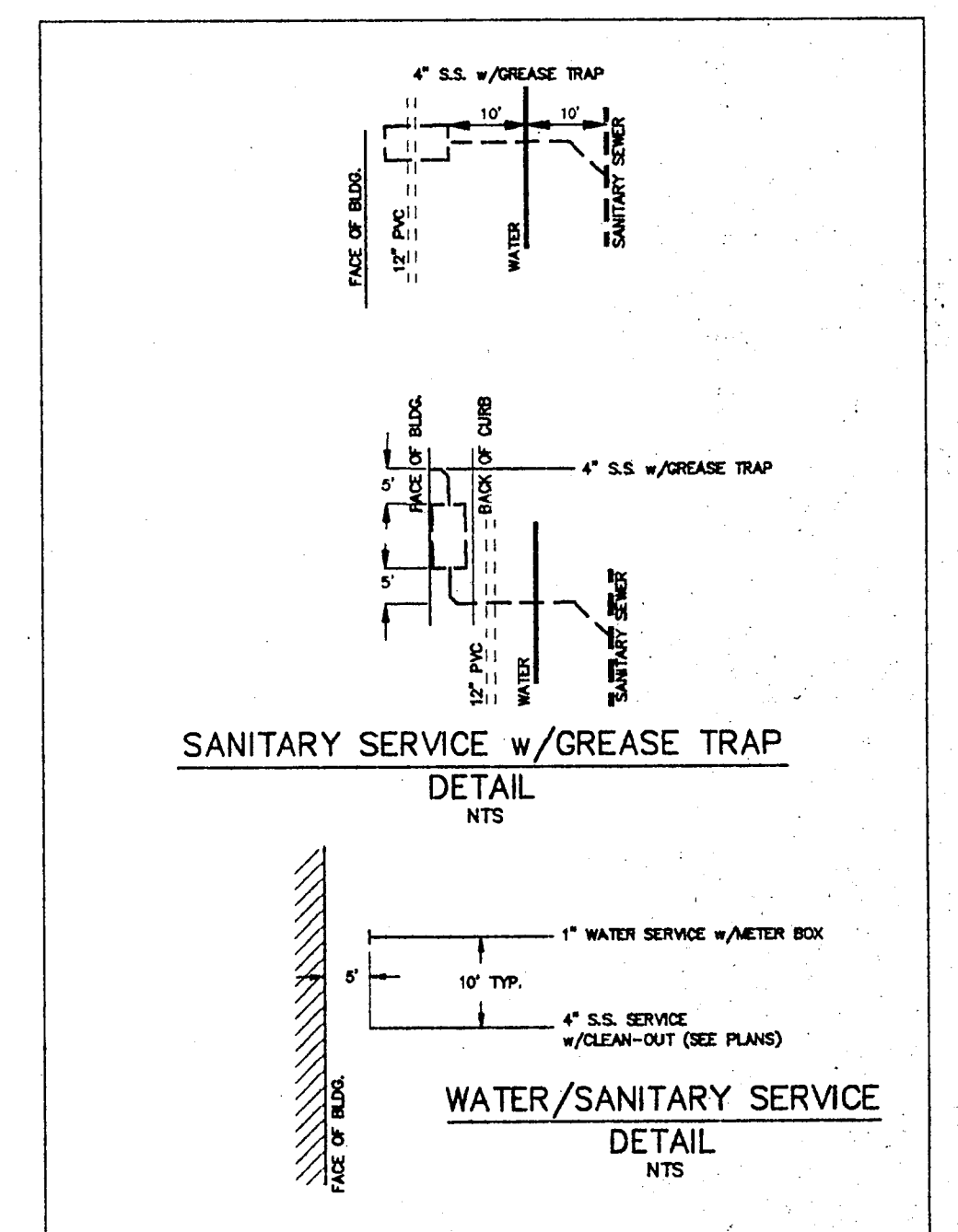
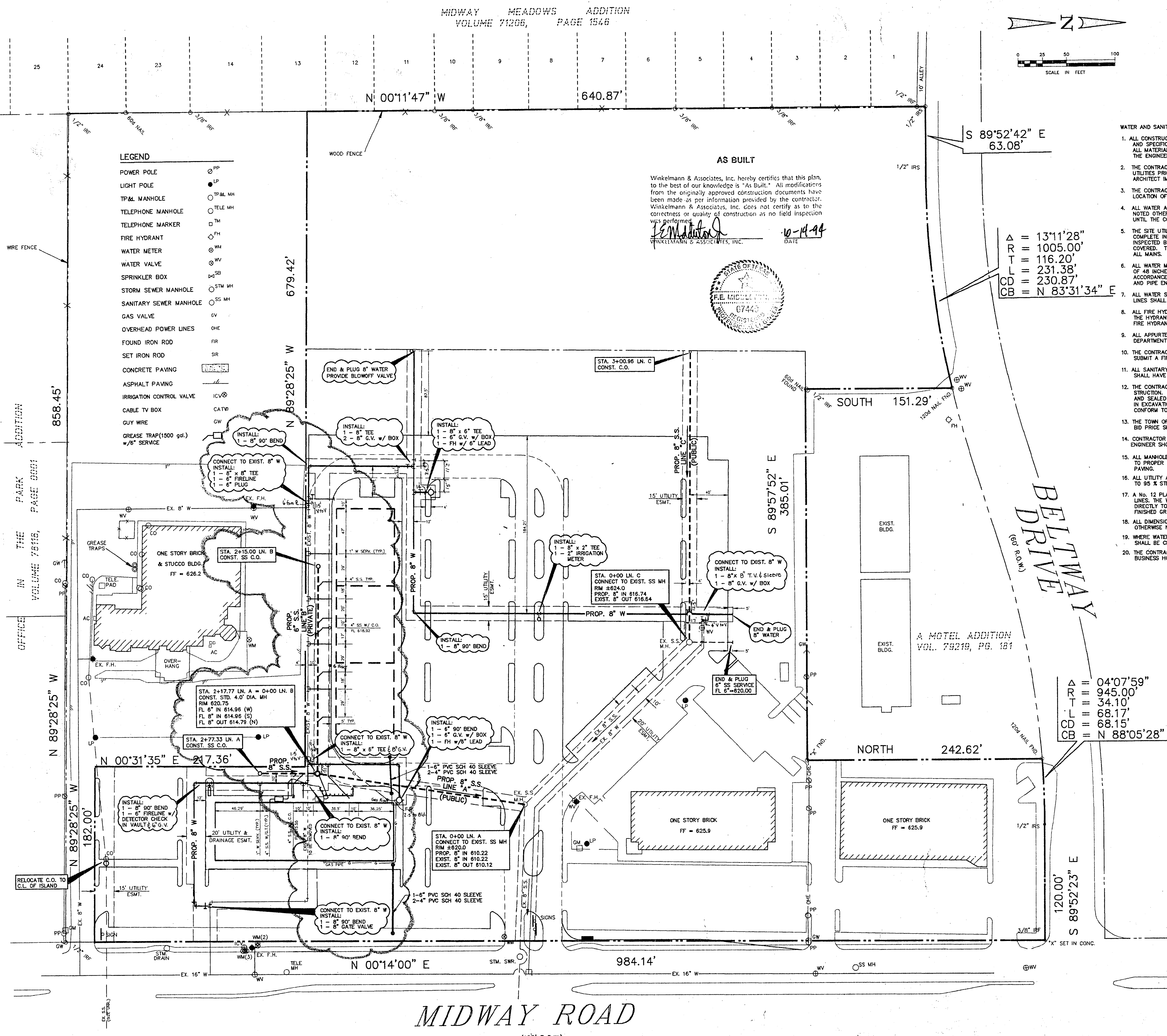
NO.	DATE	REVISION	CITY COMMENTS	FEM	FAM	APPROV.
1	12-8-93					
2	2-11-94					
3	10-14-99					

Winkelmann & Associates, Inc.
CONSULTING CIVIL ENGINEERS & SURVEYORS
14402 PRESTON ROAD, SUITE 200
DALLAS, TEXAS 75244
(214) 496-7000 FAX
(214) 496-7000

THOMAS L. CHENOWETH SURVEY,
ABSTRACT NO. 273
TOWN OF ADDISON, DALLAS COUNTY, TEXAS
CLIENT:
MCCUTCHIN PROPERTIES
14802 PRESTON ROAD, SUITE 200
DALLAS, TEXAS 75244

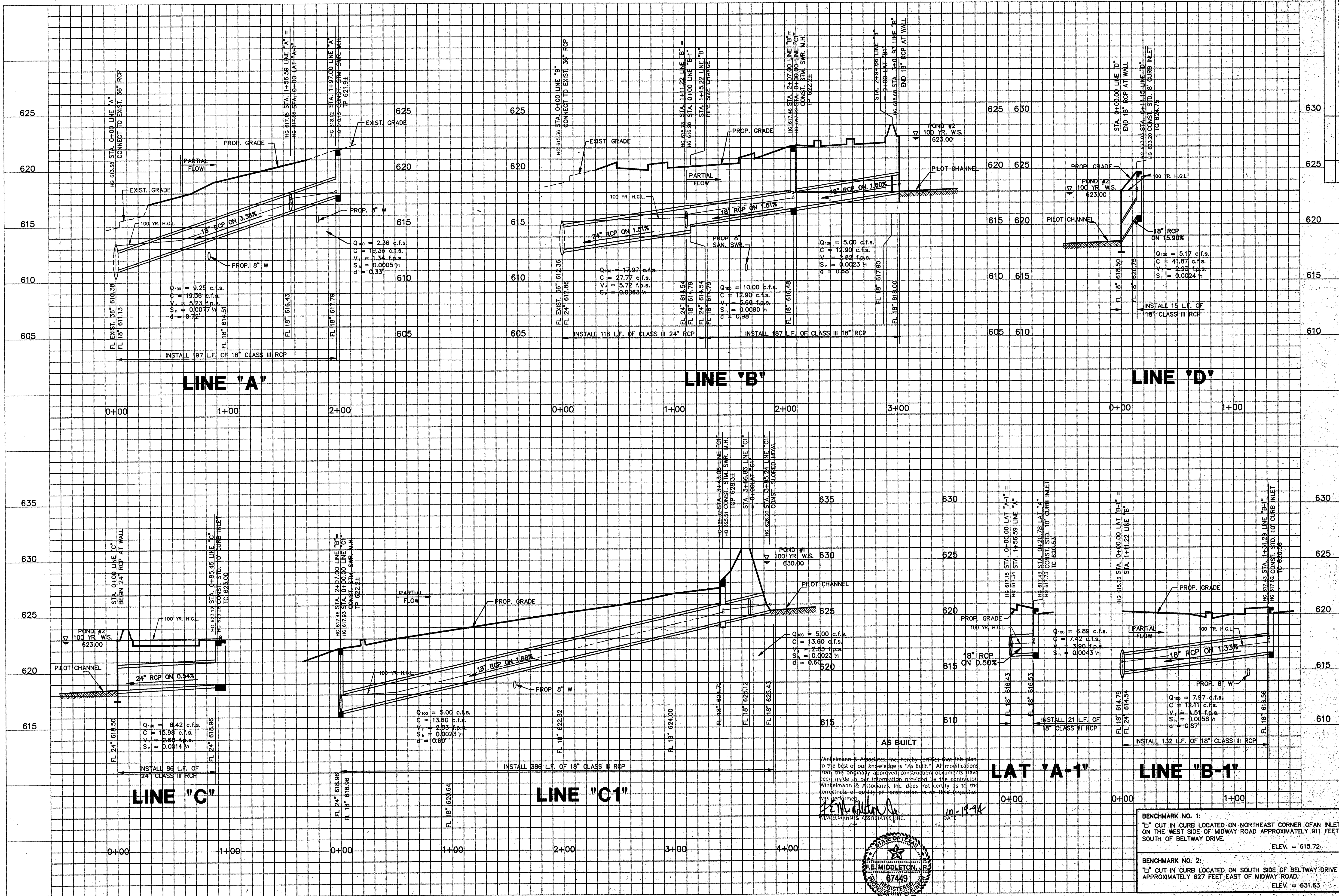
WATER / SANITARY PLAN

Scale: 1" = 50' Date: 11/27/93
Designed By: F.E.M.
Drawn By: L.H.N.
Checked By: F.E.M.
File: 15602WSS.DWG
Project No.: 15602.01



BENCHMARK NO. 1:
1" CUT IN CURB LOCATED ON NORTHEAST CORNER OF AN INLET ON THE WEST SIDE OF MIDWAY ROAD APPROXIMATELY 911 FEET SOUTH OF BELTWAY DRIVE.
ELEV. = 615.72

BENCHMARK NO. 2:
1" CUT IN CURB LOCATED ON SOUTH SIDE OF BELTWAY DRIVE APPROXIMATELY 627 FEET EAST OF MIDWAY ROAD.
ELEV. = 631.63



NO.	DATE	REVISION
1	12-6-93	CITY COMMENTS
2	2-2-94	REVISED PONDS & STORM SEWER

Winkelmann & Associates, Inc.
 CONSULTING CIVIL ENGINEERS
 14802 PRESTON ROAD, SUITE 200
 DALLAS, TEXAS 75244
 (214) 490-7999

THOMAS L. CHENOWETH SURVEY,
 ABSTRACT NO. 273
 CITY OF ADDISON, DALLAS COUNTY, TEXAS
 CLIENT:
 MCUTCHIN PROPERTIES
 14802 PRESTON ROAD, SUITE 200
 DALLAS, TEXAS 75244

STORM SEWER PROFILE

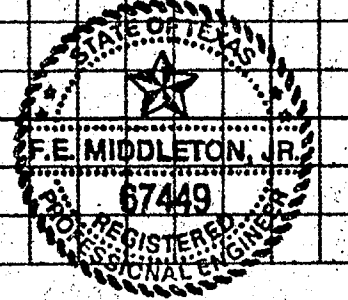
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 Date: 10-28-93
 Designed By: F.E.M.
 Drawn By: L.H.H.
 Checked By: F.E.M.
 File: 156PROF.DWG
 Project No.: 15602.01

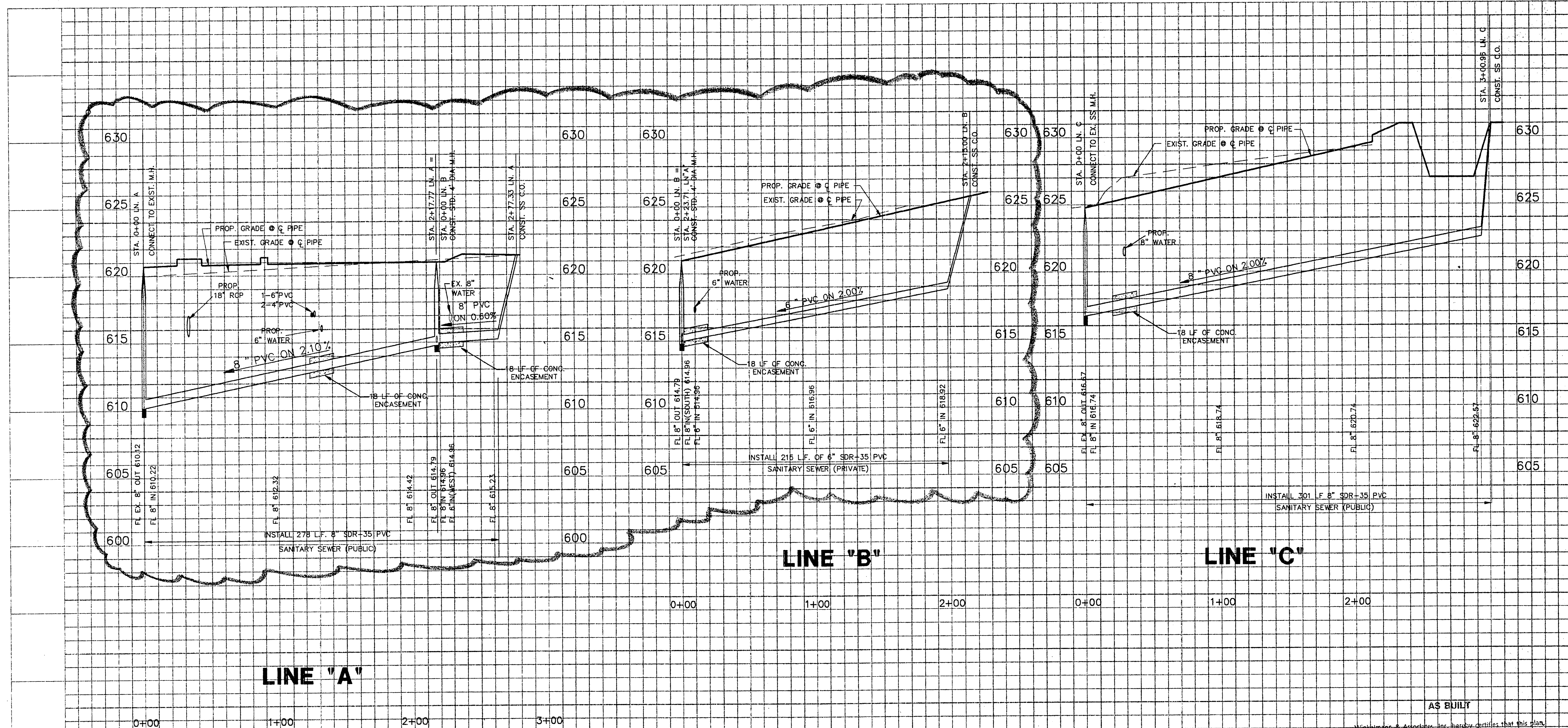
SHEET
 7
 OF
 10

BENCHMARK NO. 1:
 "I" CUT IN CURB LOCATED ON NORTHEAST CORNER OF AN INLET ON THE WEST SIDE OF MIDWAY ROAD APPROXIMATELY 911 FEET SOUTH OF BELTWAY DRIVE.
 ELEV. = 615.72

BENCHMARK NO. 2:
 "I" CUT IN CURB LOCATED ON SOUTH SIDE OF BELTWAY ROAD APPROXIMATELY 627 FEET EAST OF MIDWAY ROAD.
 ELEV. = 631.63

Winkelmann & Associates, Inc. hereby certifies that this plan to the best of our knowledge is "as built". All modifications from the originally approved construction documents have been made as per information provided by the contractor. Winkelmann & Associates, Inc. does not certify as to the accuracy or quality of construction by the field inspection was performed.
 F.E.M.
 WINKELMANN & ASSOCIATES, INC.
 10-19-94
 DATE



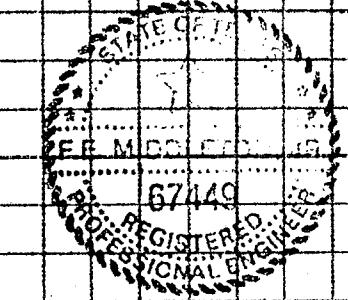


AS BUILT

Winkelmann & Associates, Inc. hereby certifies that this plan, to the best of our knowledge is "As Built." All modifications from the originally approved construction documents have been made as per information provided by the contractor. Winkelmann & Associates, Inc. does not carry any liability for the accuracy of quality of construction as no field inspection was performed.

F.E. McClinton
 F.E. McClinton
 10-14-94
 DATE

NOTE:
 THE CONTRACTOR SHALL SUBMIT A TRENCH EXCAVATION PROTECTION PLAN, PREPARED, SIGNED, AND SEALED BY A GEOTECHNICAL ENGINEER REGISTERED IN THE STATE OF TEXAS, FOR SANITARY SEWER LINES "A", "B", & "C".



BENCHMARK NO. 1:
 "1" CUT IN CURB LOCATED ON NORTHEAST CORNER OF AN INLET ON THE WEST SIDE OF MIDWAY ROAD APPROXIMATELY 911 FEET SOUTH OF BELTWAY DRIVE.
 ELEV. = 615.72

BENCHMARK NO. 2:
 "1" CUT IN CURB LOCATED ON SOUTH SIDE OF BELTWAY DRIVE APPROXIMATELY 627 FEET EAST OF MIDWAY ROAD.
 ELEV. = 631.63

REVISED LINES "A" & "B"
 2-11-94
 FEM

CITY COMMENTS
 12-6-93
 FEM

APPROV
 12-6-93
 FEM

Winkelmann & Associates, Inc.
 CONSULTING CIVIL ENGINEERS & SURVEYORS
 1200 Hillcrest Blvd., Suite 200
 Dallas, Texas 75230
 (214) 967-7090
 (214) 967-7099

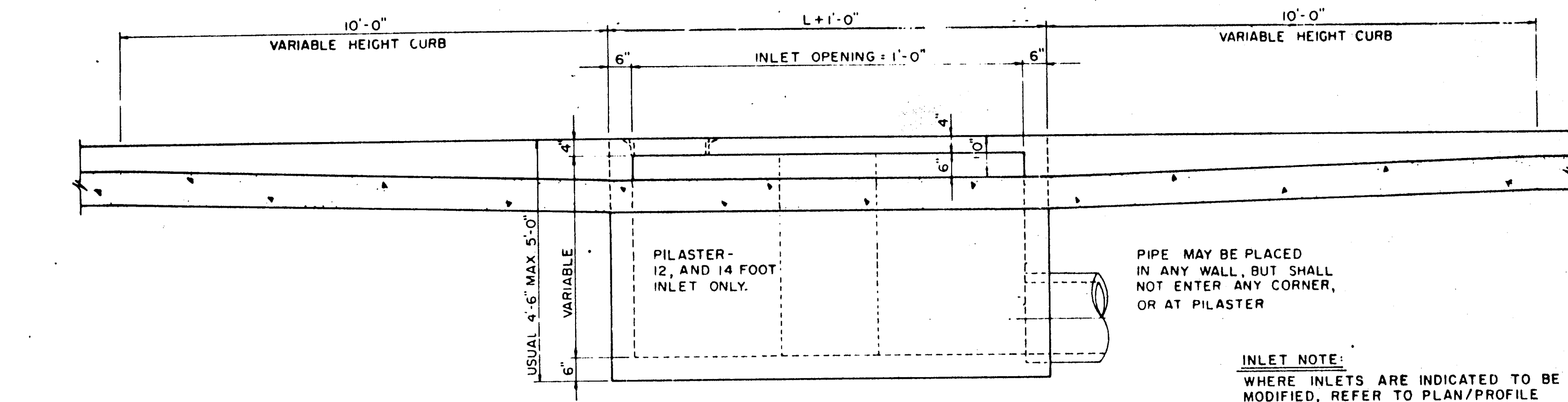
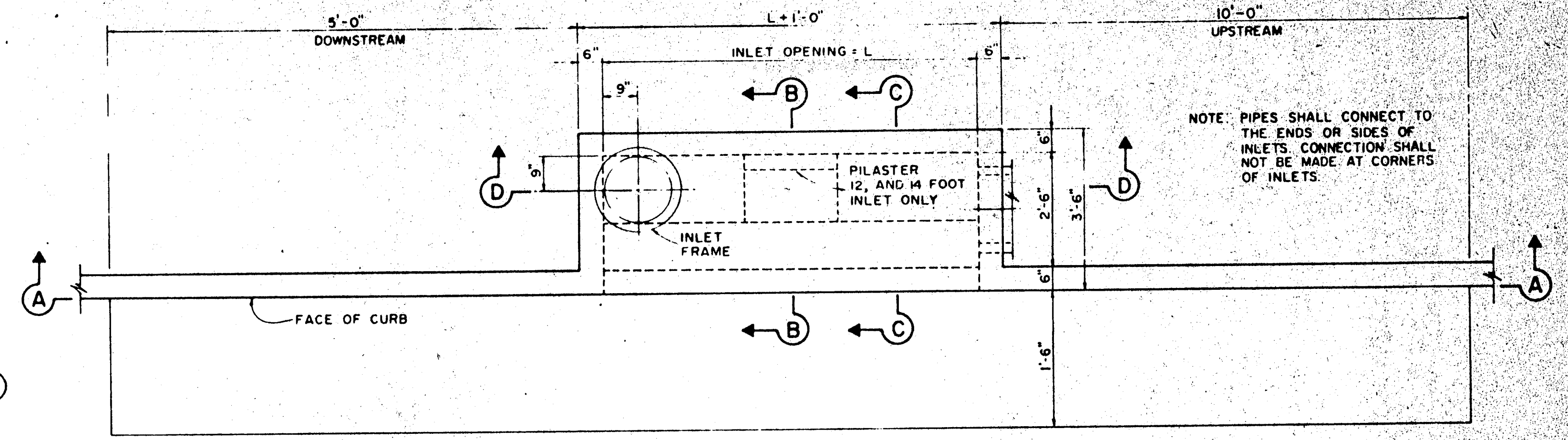
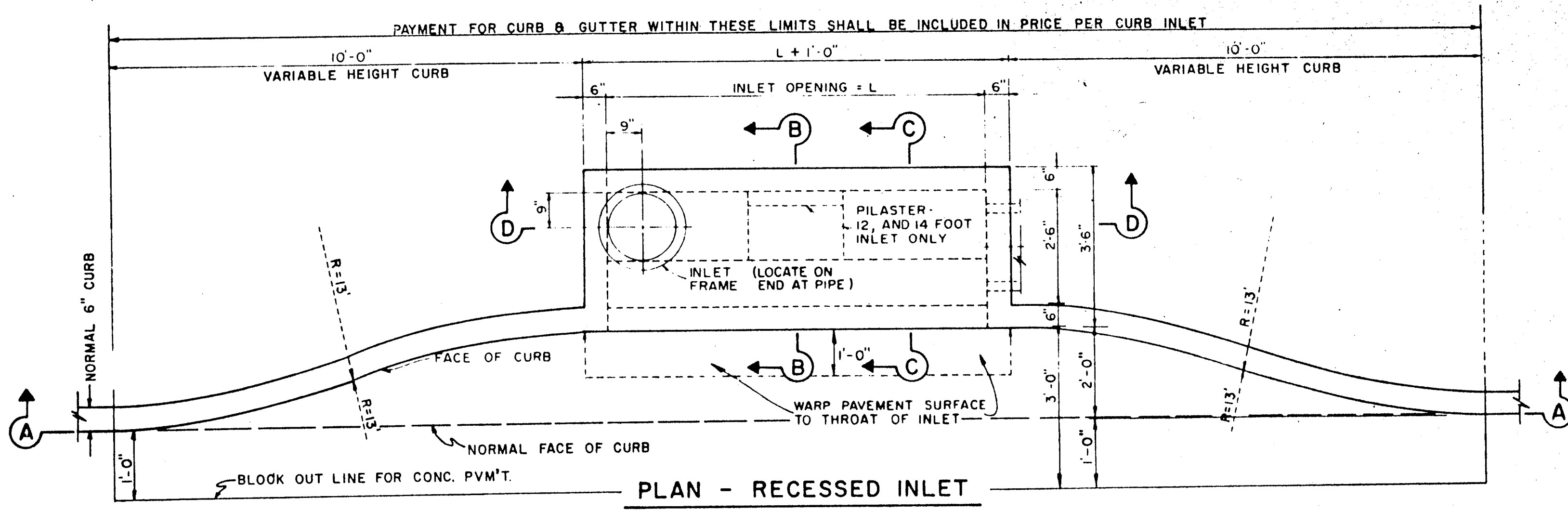
THOMAS L. CHEMETH SURVEY,
 ABSTRACT NO. 273
 TOWN OF ADDISON, DALLAS COUNTY, TEXAS

CLIENT:
 MCOUTCHIN PROPERTIES
 14902 PRESTON ROAD, SUITE 200
 DALLAS, TEXAS 75280

SANITARY SEWER PROFILES

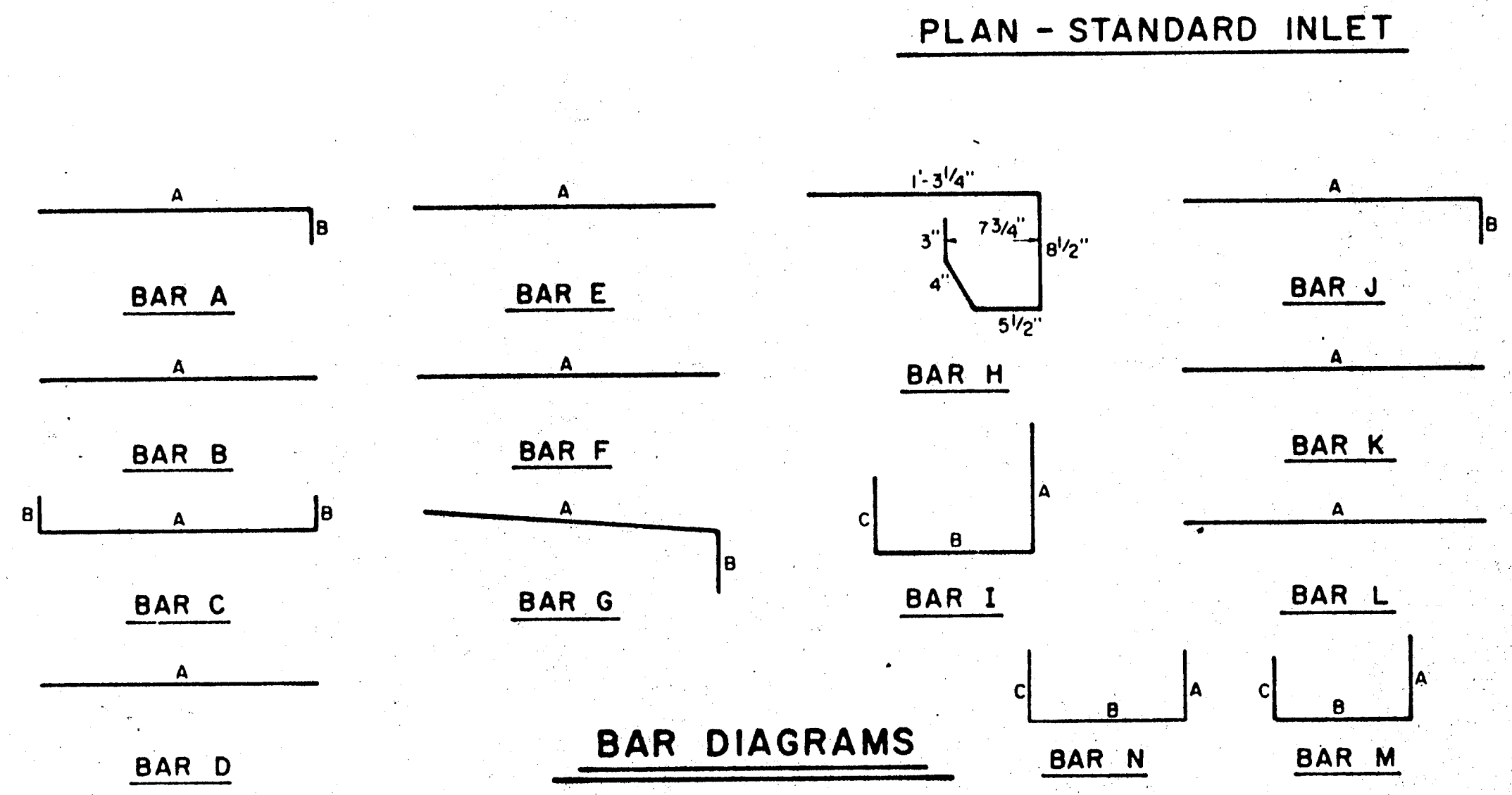
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 Date: 11-22-93
 Designed By: TL
 Drawn By: TL
 Checked By: FEM
 File: 156SSPF.dwg
 Project No.: 15602.01

SHEET
 10



SECTION A-A-RECESSED AND STANDARD INLETS
4, 6, 8, 10, 12, AND 14 FOOT INLETS

INLET NOTE:
WHERE INLETS ARE INDICATED TO BE MODIFIED, REFER TO PLAN/PROFILE SHEETS FOR ELEV. DIFFERENT SIZES OR MODIFICATIONS. ALL OTHER ITEMS SHALL REMAIN AS SHOWN ON THIS STANDARD DETAIL SHEET

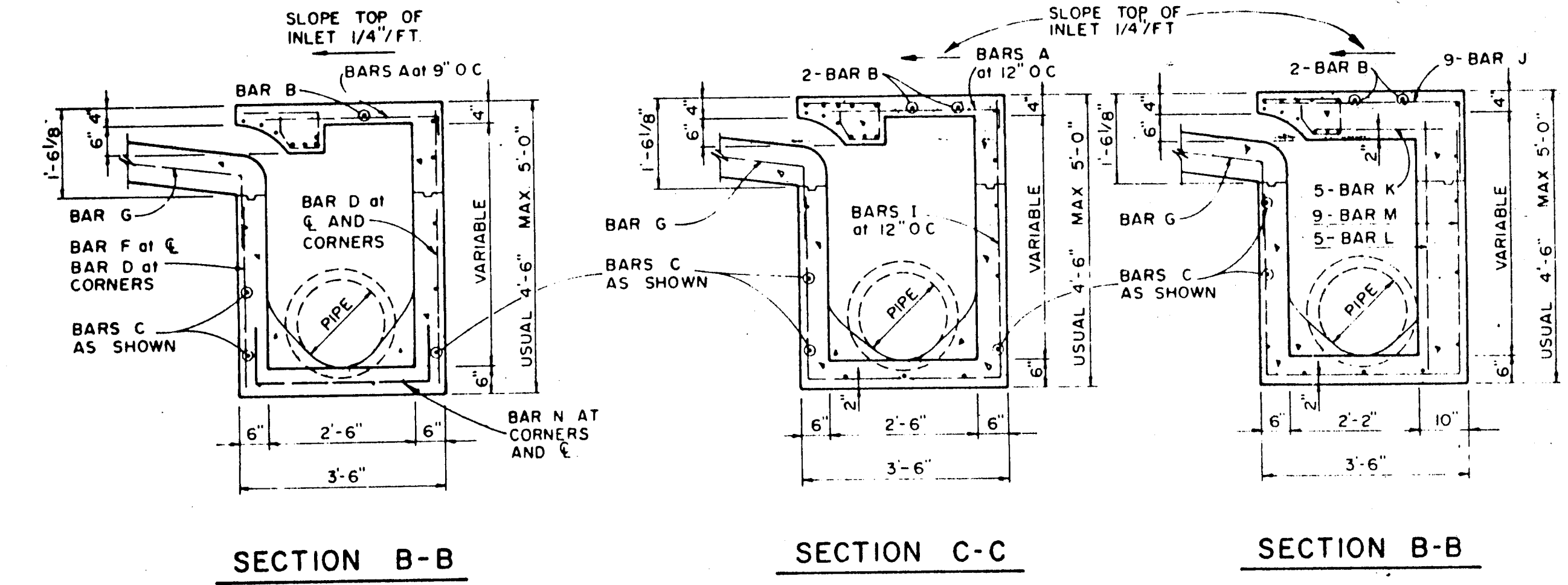


REINFORCING STEEL SCHEDULE

DIMENSIONS SHOWN ARE FOR MAXIMUM SIZE INLETS

INLET LENGTH	BAR TYPE	BAR DIA. (I/B IN)	NO. REQD	BAR DIMENSIONS		
				A	B	C
4	A	3	6	3'-2"	0'-3"	-
	B	3	1	2'-10"	-	-
	C	4	15	4'-8"	0'-6"	-
	D	4	5	4'-8"	-	-
	F	4	1	3'-2"	-	-
	G	3	5	2'-0"	1'-3"	-
	H	3	4	-	-	-
	N	3	3	3'-2"	3'-2"	3'-2"
	A	3	9	3'-2"	0'-3"	-
6	B	3	1	4'-10"	-	-
	C	4	15	6'-8"	0'-6"	-
	D	4	5	4'-8"	-	-
	F	4	1	3'-2"	-	-
	G	3	5	2'-0"	1'-3"	-
	H	3	6	-	-	-
	N	3	3	3'-2"	3'-2"	3'-2"
	A	3	12	3'-2"	0'-3"	-
	B	3	1	6'-10"	-	-
8	C	4	15	8'-8"	0'-6"	-
	D	4	5	4'-8"	-	-
	F	4	1	3'-2"	-	-
	G	3	5	2'-0"	1'-3"	-
	H	3	6	-	-	-
	N	3	3	3'-2"	3'-2"	3'-2"
	A	3	12	3'-2"	0'-3"	-
	B	3	1	8'-10"	-	-
	C	4	16	10'-8"	0'-6"	-
10	D	4	4	4'-8"	-	-
	E	5	6	12'-8"	-	-
	G	3	5	2'-0"	1'-3"	-
	H	3	15	-	-	-
	I	4	8	4'-8"	3'-2"	3'-2"
	L	4	5	4'-3"	-	-
	A	3	12	3'-2"	0'-3"	-
	B	3	2	8'-10"	-	-
	C	4	16	10'-8"	0'-6"	-
12	D	4	4	4'-8"	-	-
	E	5	6	12'-8"	-	-
	G	3	5	2'-0"	1'-3"	-
	H	3	18	-	-	-
	I	4	10	4'-8"	3'-2"	3'-2"
	J	5	9	3'-2"	1'-3"	-
	K	4	5	2'-3"	-	-
	L	4	5	4'-3"	-	-
	M	5	9	4'-3"	3'-2"	3'-9"
14	A	3	14	3'-2"	0'-3"	-
	B	3	2	10'-10"	-	-
	C	4	16	14'-8"	0'-6"	-
	D	4	4	4'-8"	-	-
	E	5	6	14'-8"	-	-
	G	3	5	2'-0"	1'-3"	-
	H	3	21	-	-	-
	I	4	12	4'-8"	3'-2"	3'-2"
	J	5	9	3'-2"	1'-3"	-
K	4	5	2'-3"	-	-	
L	4	5	4'-3"	-	-	
M	5	9	4'-3"	3'-2"	3'-9"	

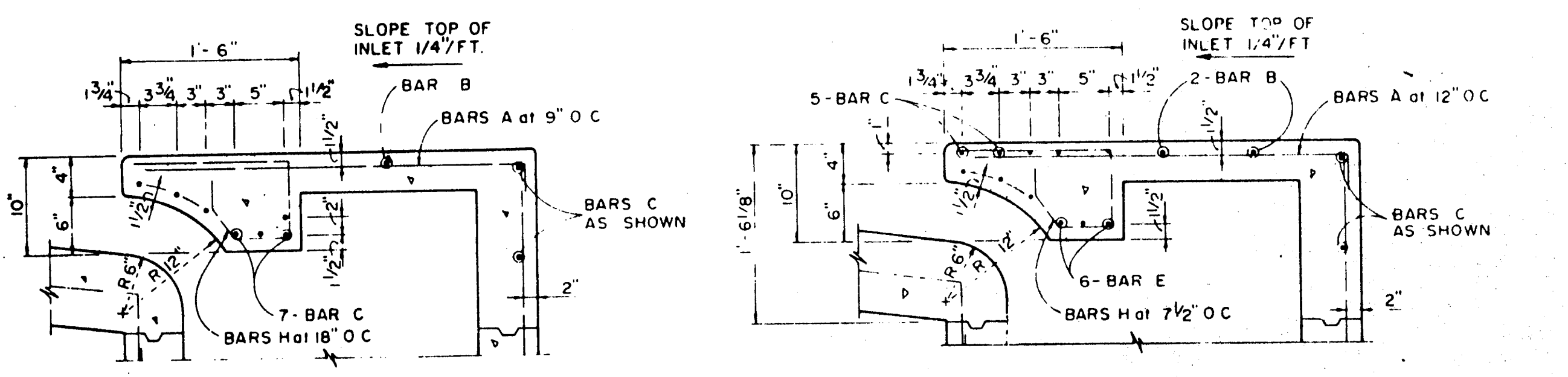
* SEE DIAGRAM FOR DIMENSIONS



SECTION B-B

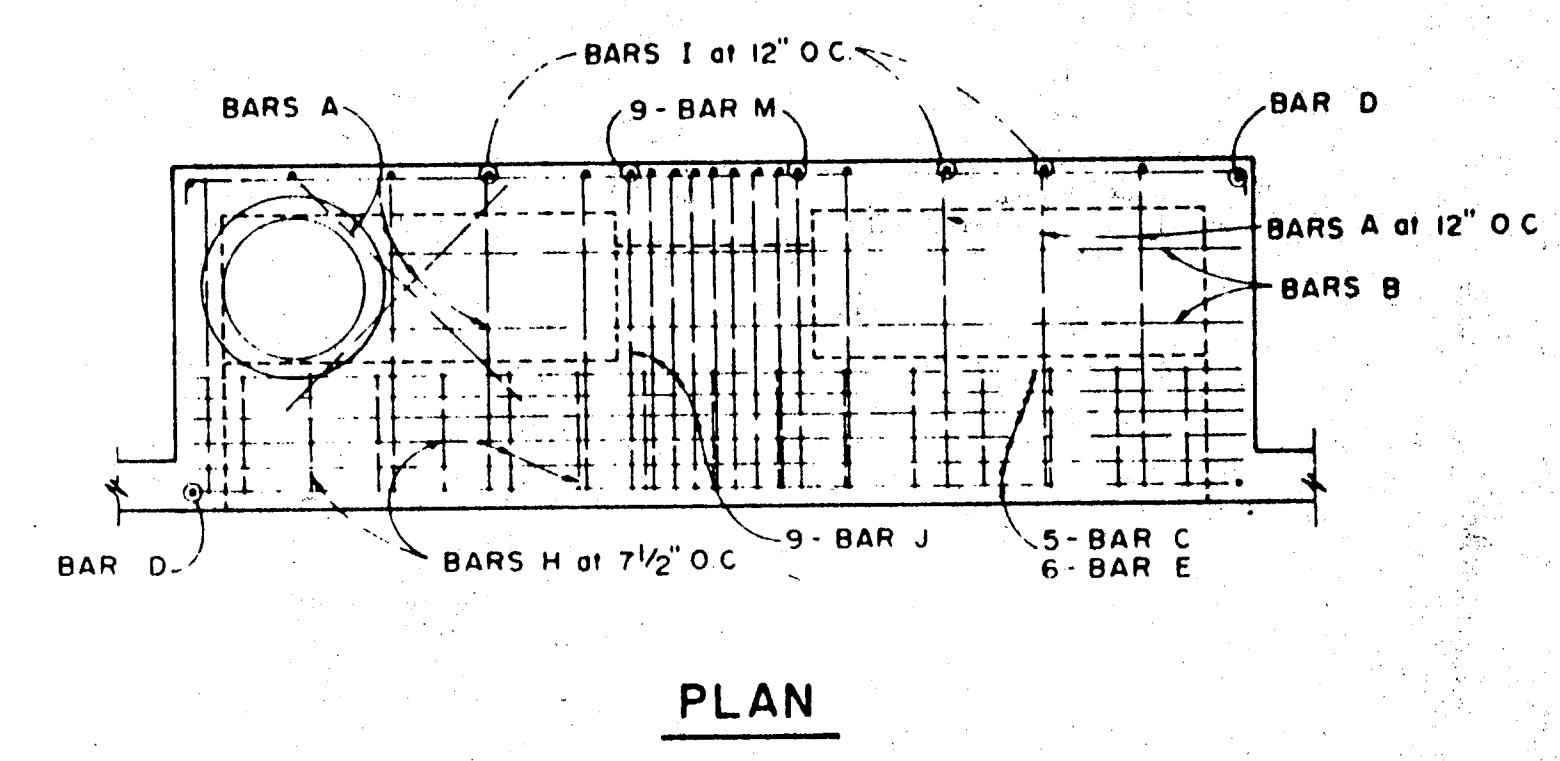
SECTION C-C

SECTION B-B

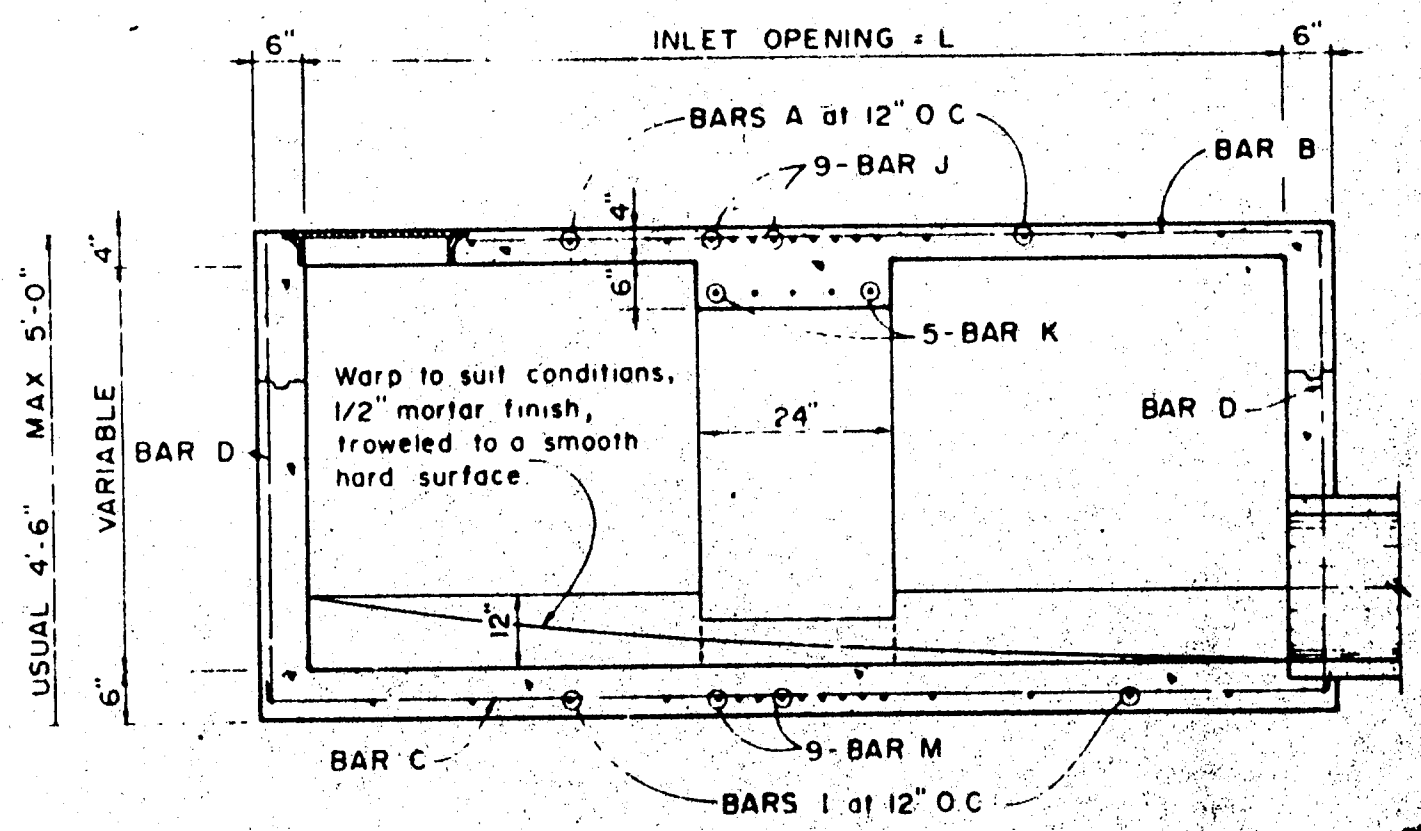


SECTION C-C

4, 6, AND 8 FOOT INLETS

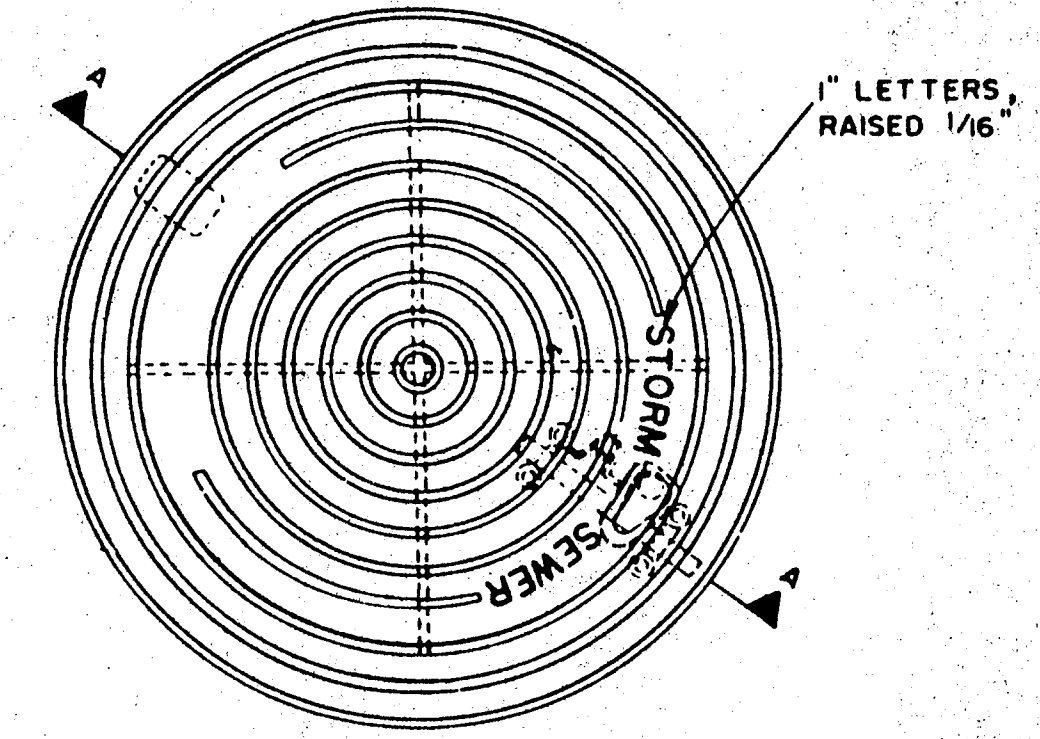


PLAN

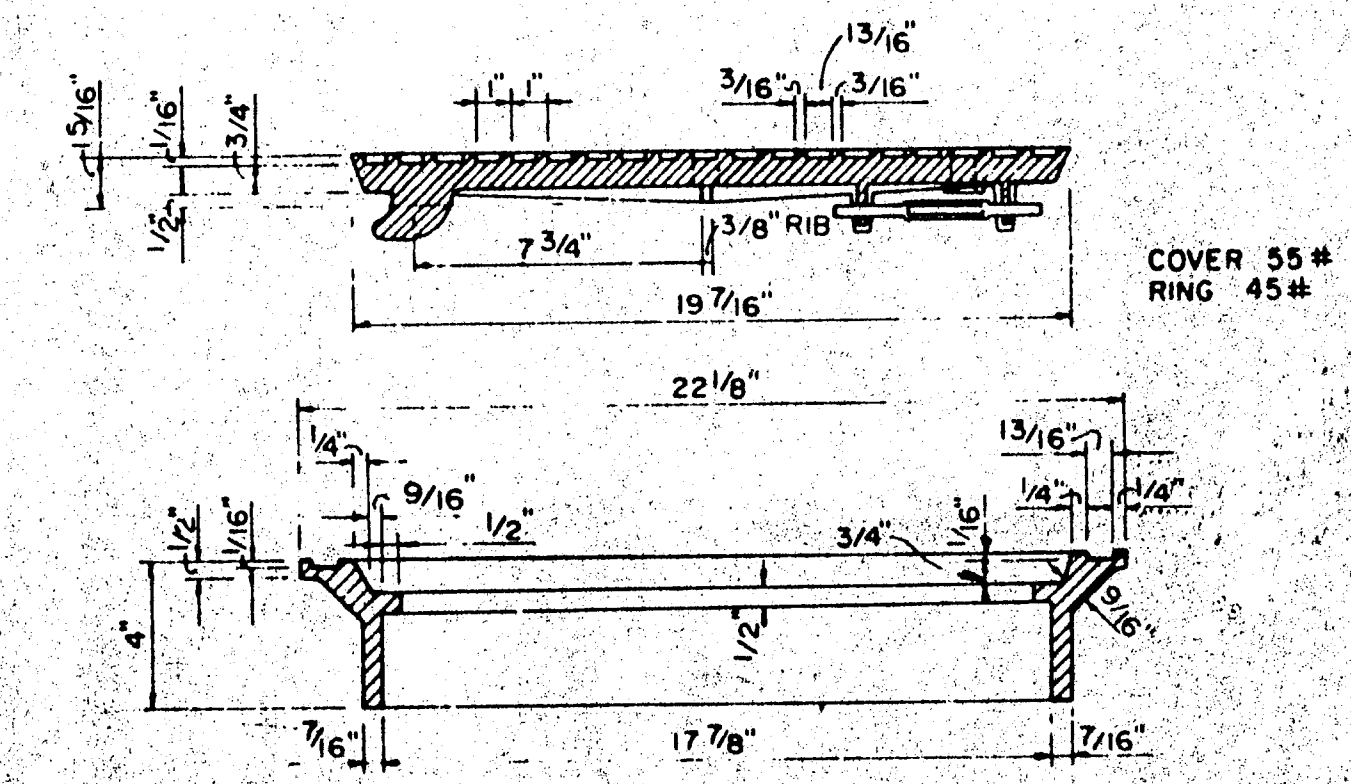


SECTION D-D FOR 12' & 14' ONLY

10, 12, AND 14 FOOT INLETS



PLAN OF FRAME



SECTION OF FRAME AND COVER

INLET FRAME AND COVER

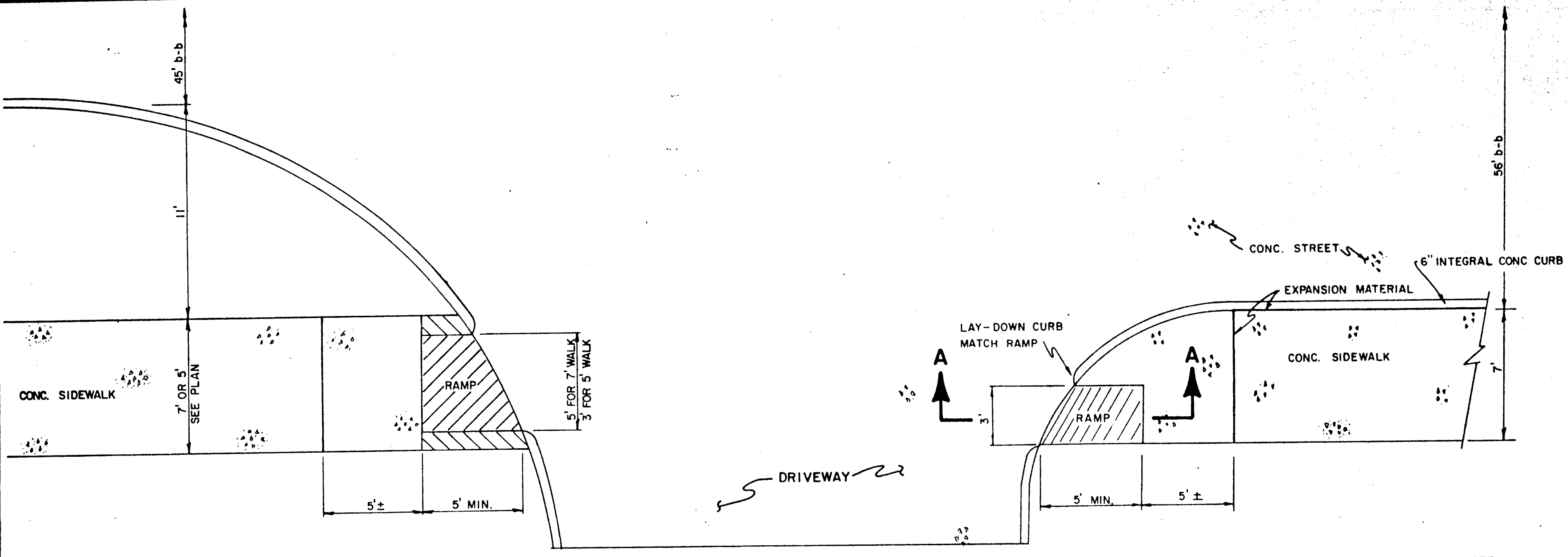


TOWN OF ADDISON, TEXAS
DEPARTMENT OF ENGINEERING

STANDARD CONSTRUCTION DETAILS
STORM DRAINAGE

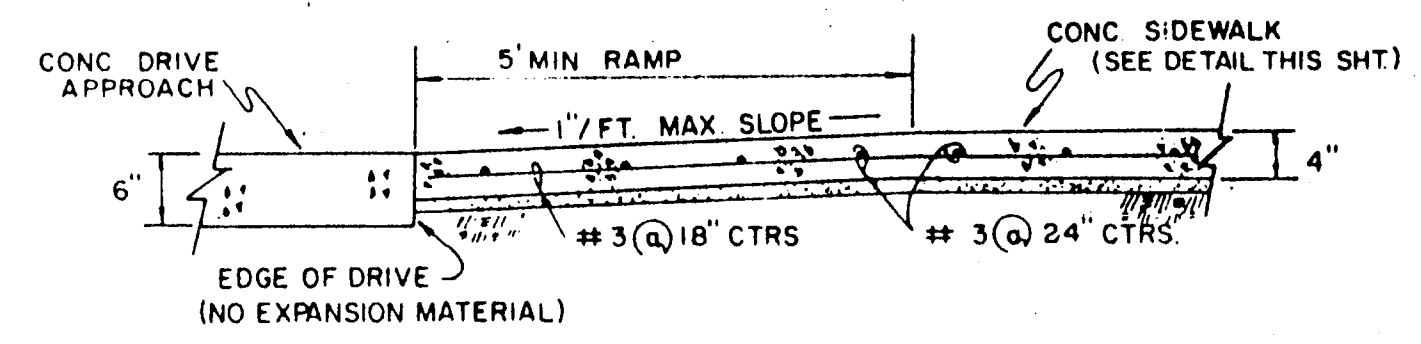
CURB INLETS

Designed -	Drawn -	Date -	Job No.
Approved -	Checked -	Scale -	Sheet 10 of



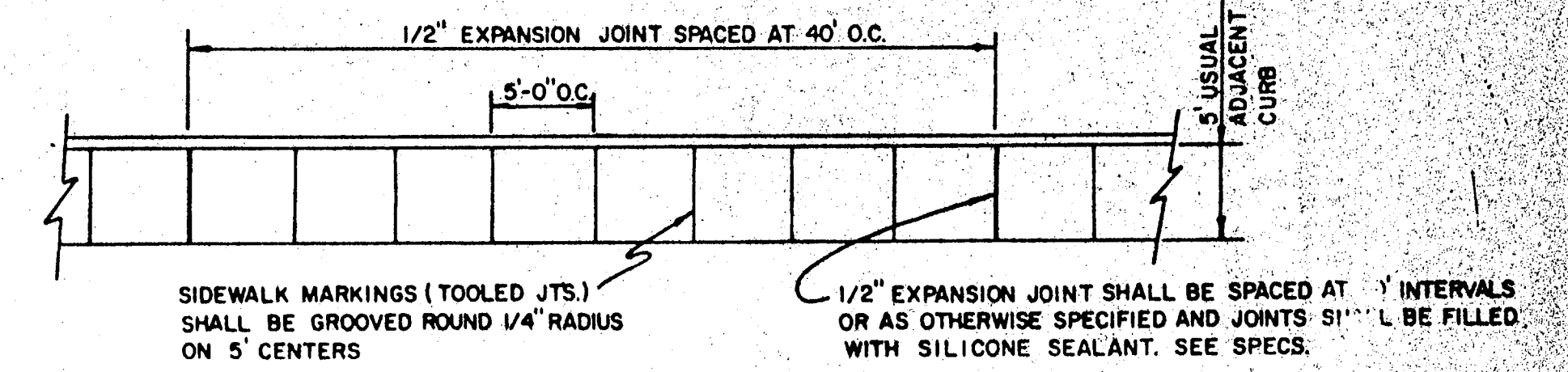
PLAN

NOTE:
MODIFY RAMP TO
FIT DIFFERENT RADIUS

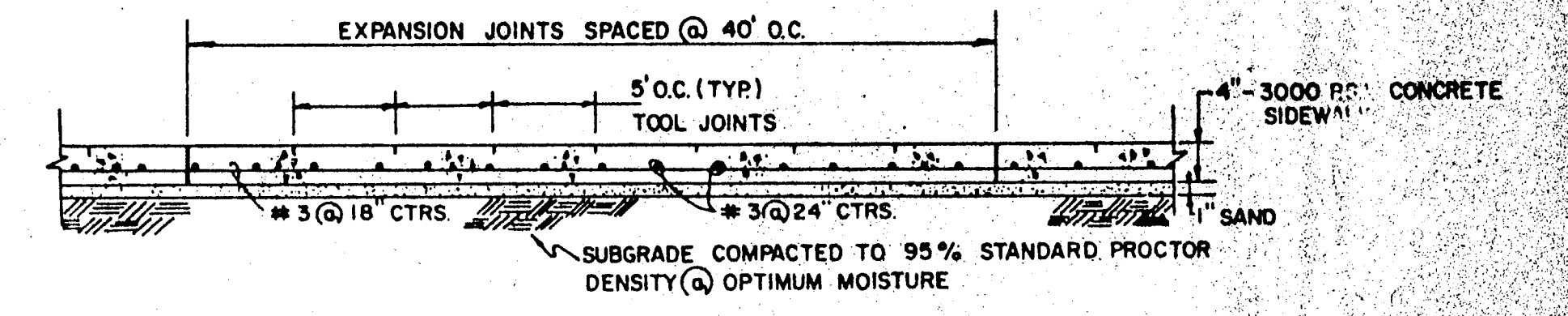


SECTION A-A

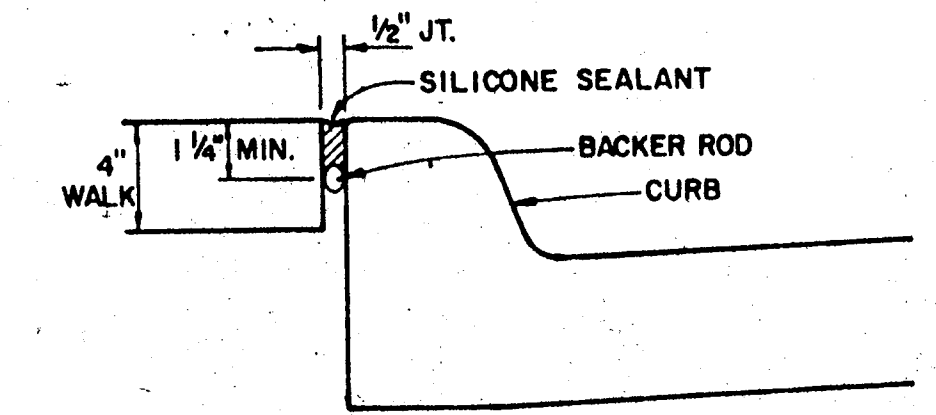
**BARRIER-FREE RAMP DETAIL
WITH WALK ADJACENT TO CURB**



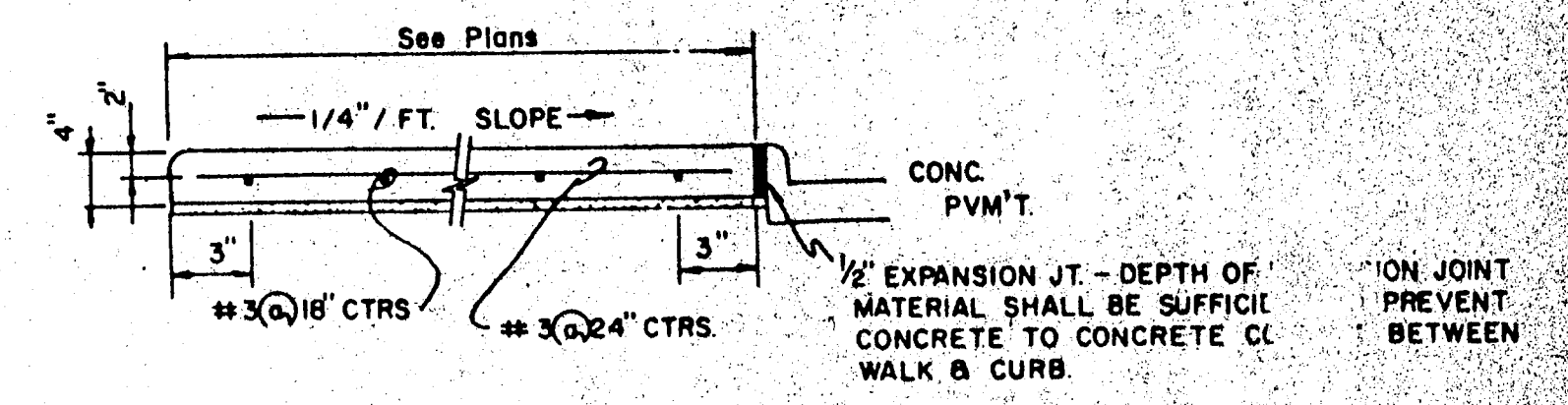
PLAN



SIDE ELEVATION



EXPANSION JOINT DETAIL

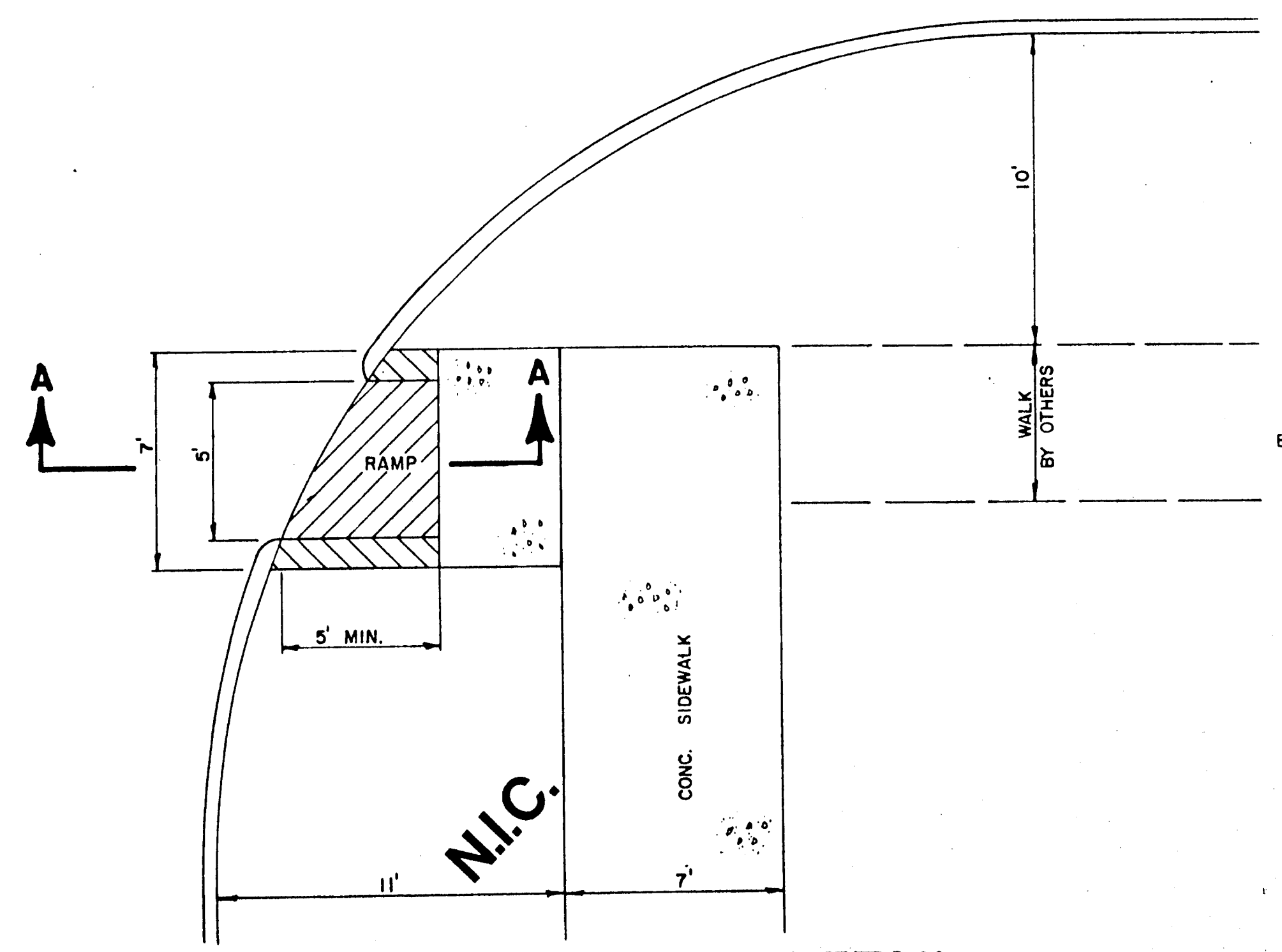


SECTION

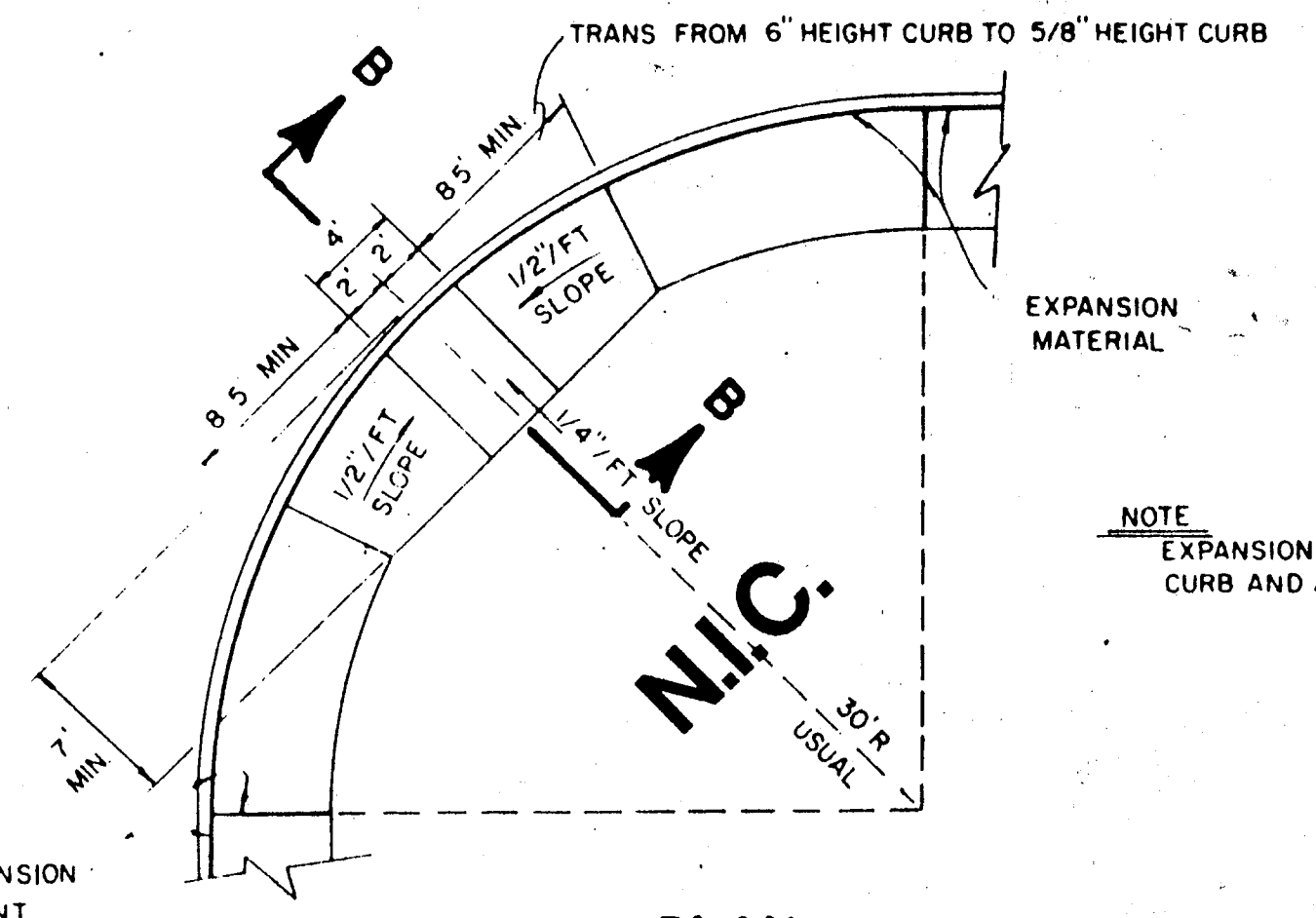
CONCRETE SIDEWALK DETAIL

GENERAL NOTES

1. Reinforced concrete sidewalk shall be 5 or 7 feet wide, a minimum of four (4) inches thick and shall be 3000 psi at 28 days (5 sack mix). Unless noted otherwise.
2. Chamfer all exposed edges of concrete (1/4) inch.
3. All bar dimensions are given as center to center of bars and are located as shown.
4. All reinforcing steel shall be No. 3 on 18 inch centers longitudinally, 24 inch centers transversely and shall conform to the requirements of ASTM A-615, Grade 60.
5. 1" thick min. fine, washed sand cushion shall be free from organic materials or clays and shall be used for grade adjustment.
6. Subgrade shall be compacted to a density not less than 95% at optimum moisture.
7. Tooled joints (contraction joints) shall be on five (5) foot centers and shall be round one-fourth (1/4) inch radius.
8. A one-half (1/2) inch expansion joint shall be placed every eight (8) tooled joints, and where works abut old work, or where new work is constructed adjacent to other concrete, a one-half inch expansion joint shall be used where sidewalk is adjacent to curb, the expansion joint shall be made of pre-molded bituminous expansion joint filler or redwood with silicone sealant. See Specs.
9. Sidewalks shall be finished by lightly brooming surface transversely to direction of main traffic or where adjacent sidewalks differ from this standard, new sidewalks shall conform to adjacent sidewalk (e.g. exposed aggregate).
10. Cross slope walk one-fourth (1/4) inch per foot towards curb or as shown on the drawings to provide drainage.

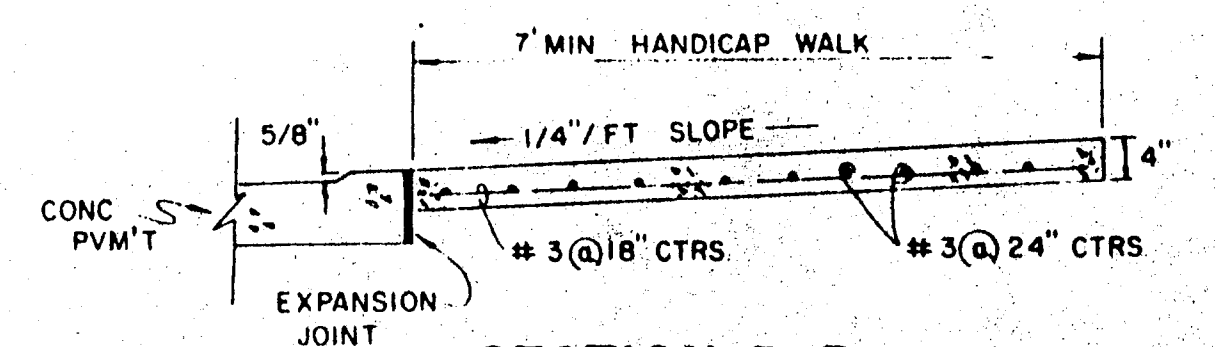


**BARRIER FREE RAMP DETAIL
WITH WALK SEPARATE FROM CURB**



PLAN

NOTE:
EXPANSION MATERIAL ALONG
CURB AND AT CURB RETURNS



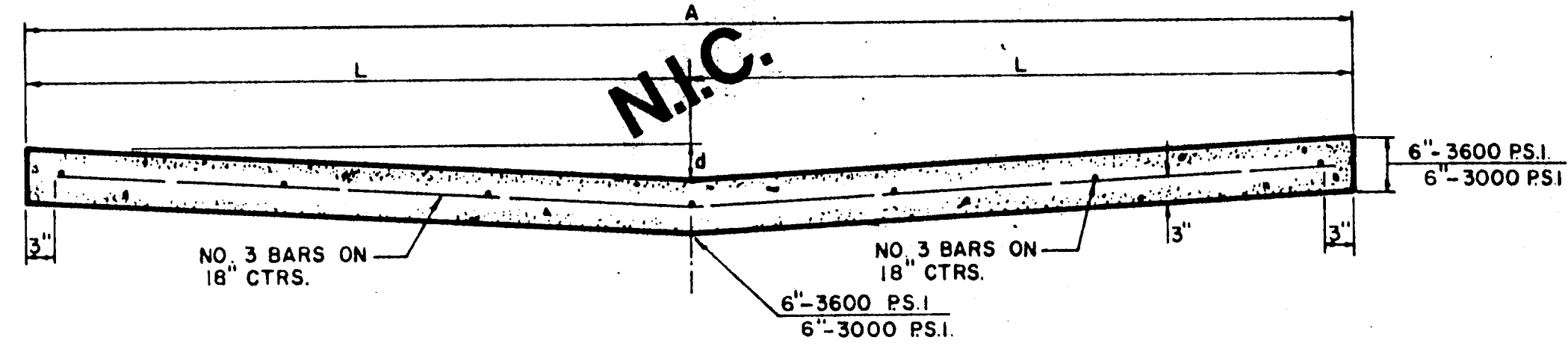
SECTION B-B

HANDICAP ROLL-DOWN CURB DETAIL

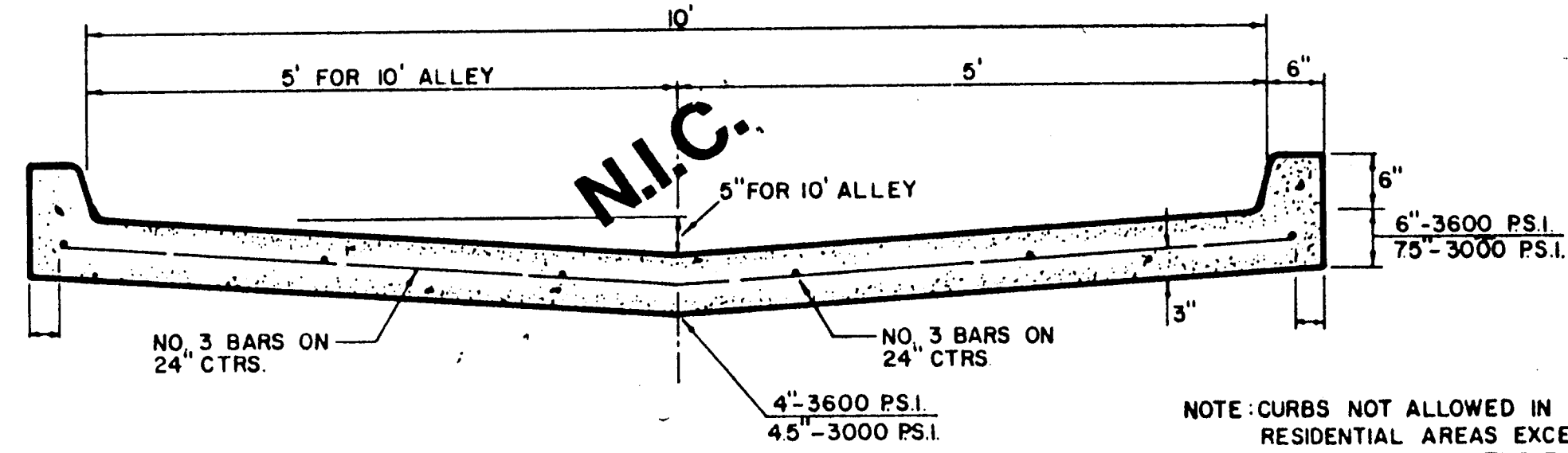


NO.	REVISION	BY	DATE
TOWN OF ADDISON, TEXAS DEPARTMENT OF ENGINEERING			
STANDARD CONSTRUCTION DETAILS PAVING			
SIDEWALKS & RAMP			
APPROVED _____			
DATE			SHEET 11 OF 19

ALLEY WIDTH (A)	HALF SECTION WIDTH (L)	INVERT DEPTH (d)
10'	5'	4"
12'	6'	6"
16'	8'	6"
20'	10'	6"

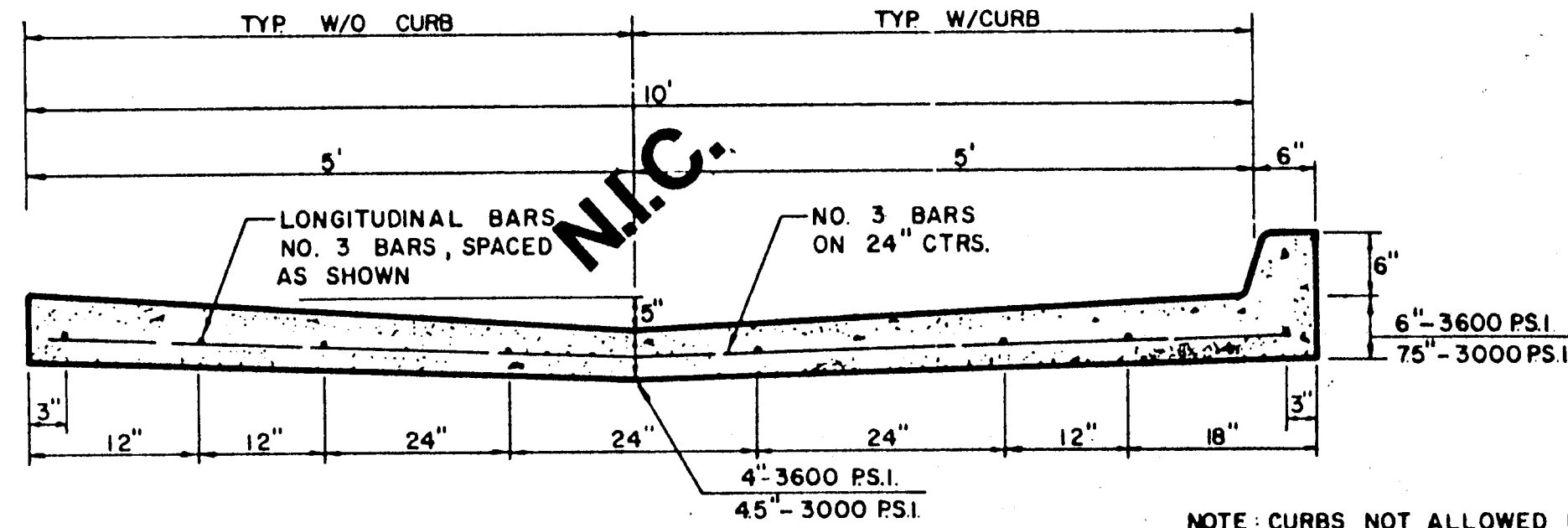


STANDARD 10', 12', 16', & 20' ALLEY SECTION



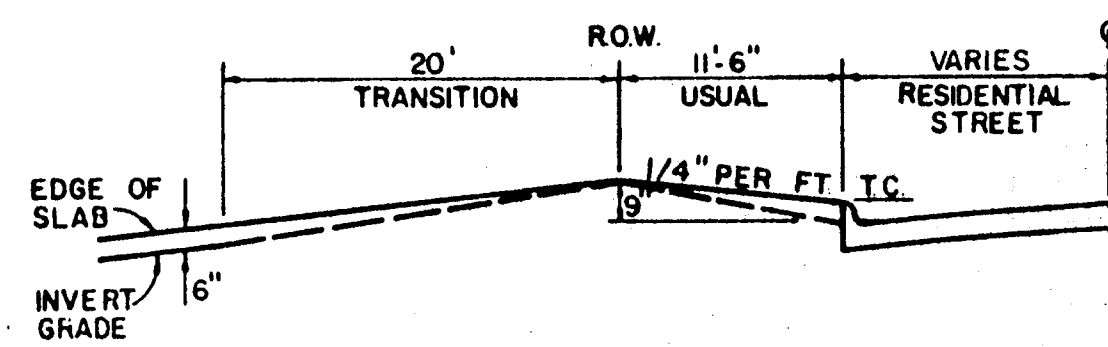
STANDARD ALLEY SECTION WITH CURBS

NOTE: CURBS NOT ALLOWED IN RESIDENTIAL AREAS EXCEPT AS APPROVED BY THE ENGINEER.

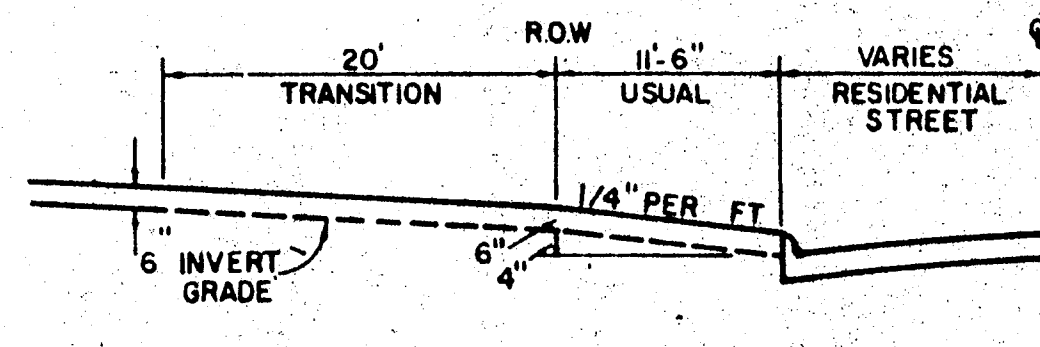


ALTERNATE 10' ALLEY SECTION / CURB

NOTE: CURBS NOT ALLOWED IN RESIDENTIAL AREAS EXCEPT AS APPROVED BY THE ENGINEER.

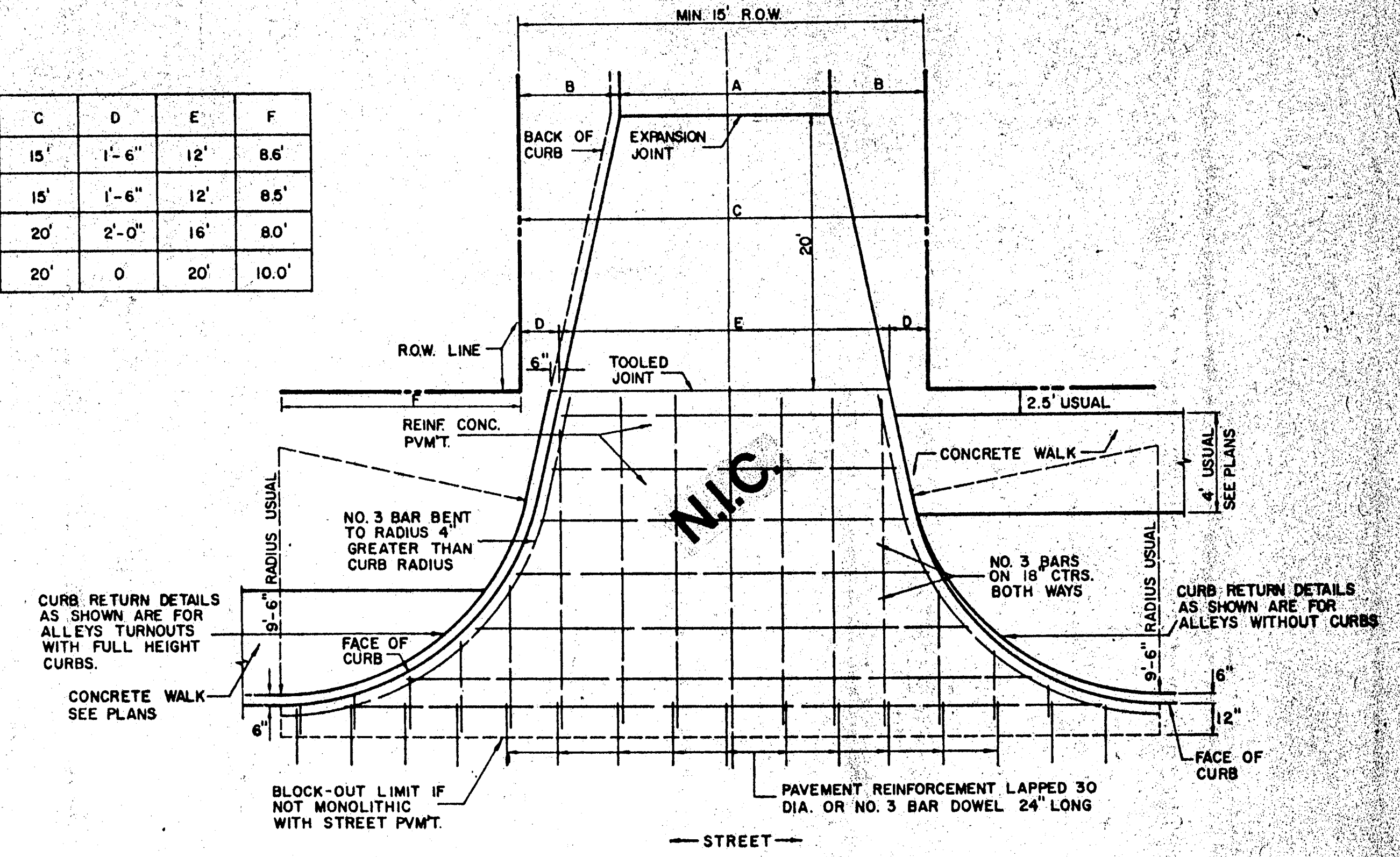


TYPE I ALLEY ENTRANCE



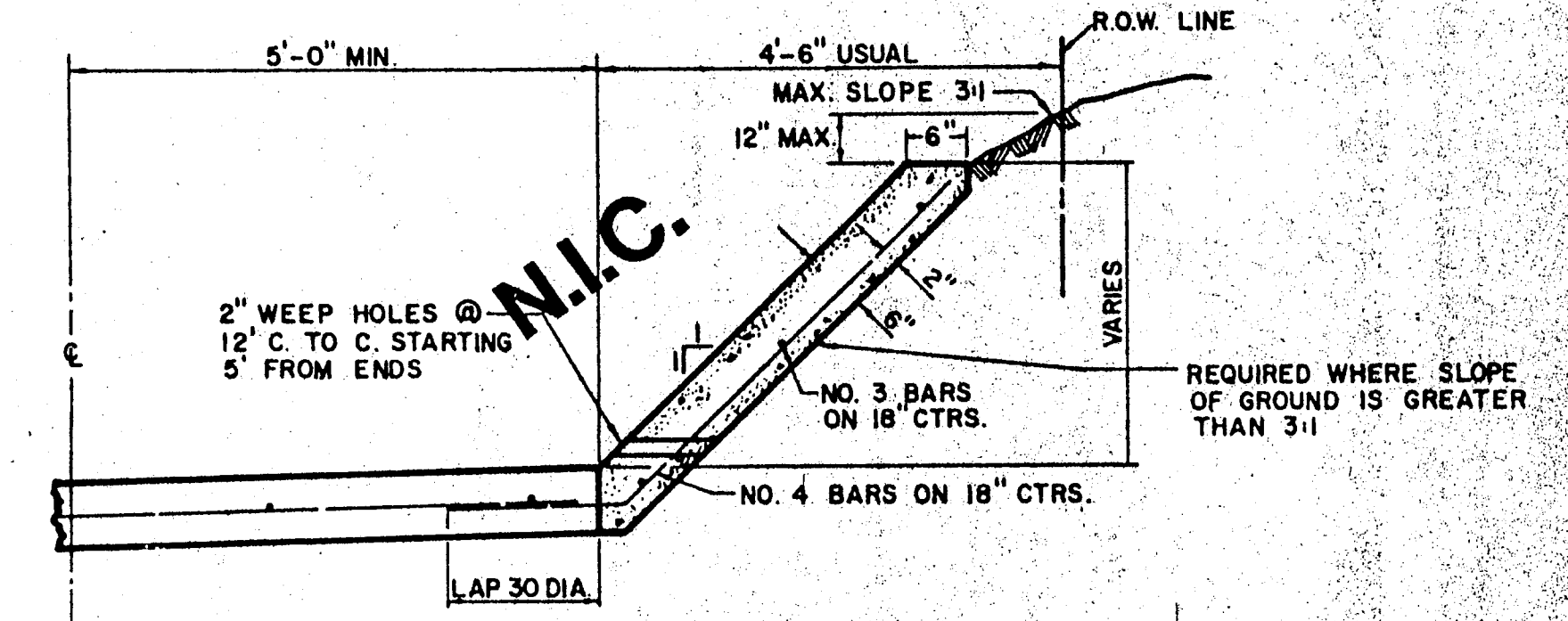
TYPE II ALLEY ENTRANCE

ALLEY WIDTH	A	B	C	D	E	F
10'	10'	2'-6"	15'	1'-6"	12'	8.6'
12'	12'	1'-6"	15'	1'-6"	12'	8.5'
16'	16'	2'-0"	20'	2'-0"	16'	8.0'
20'	20'	0	20'	0	20'	10.0'

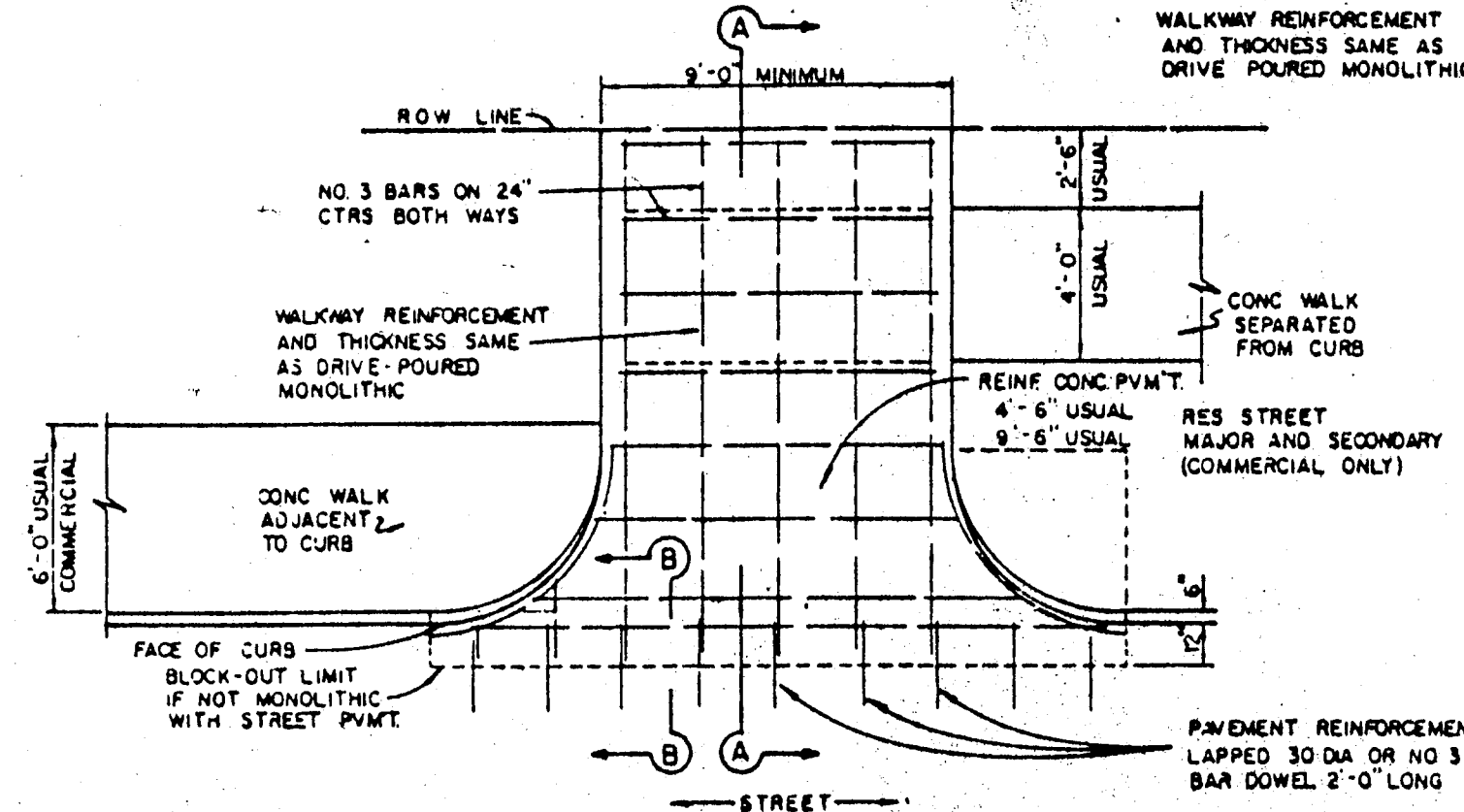


ALLEY RETURN DETAILS

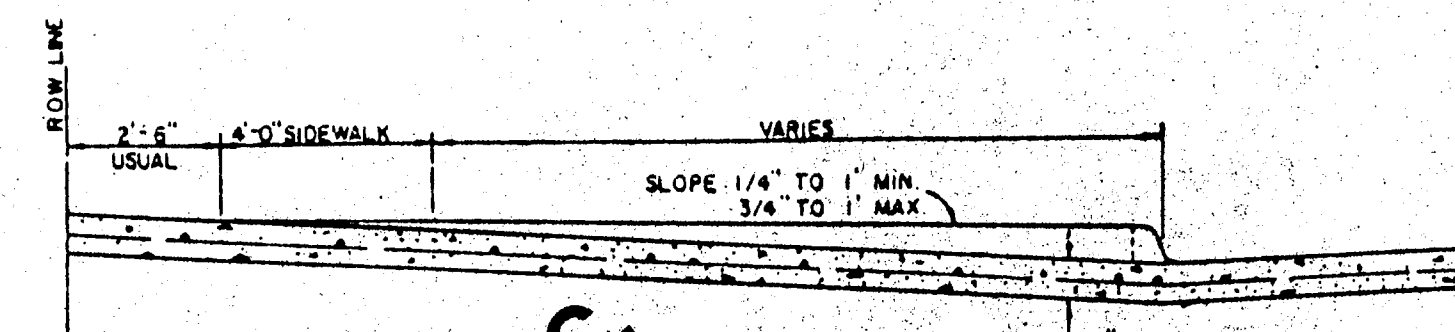
FOR DETAILS ONLY - SEE PLAN FOR DIMENSIONS



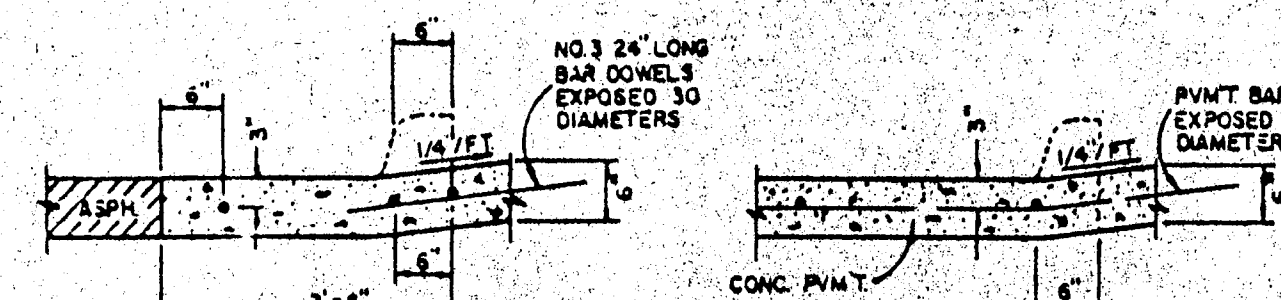
ALLEY SLOPE PROTECTION



DRIVEWAY RETURN TO STREET



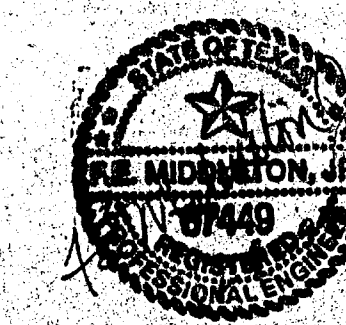
SECTION A-A



SECTION B-B
DRIVEWAY RETURN DETAILS

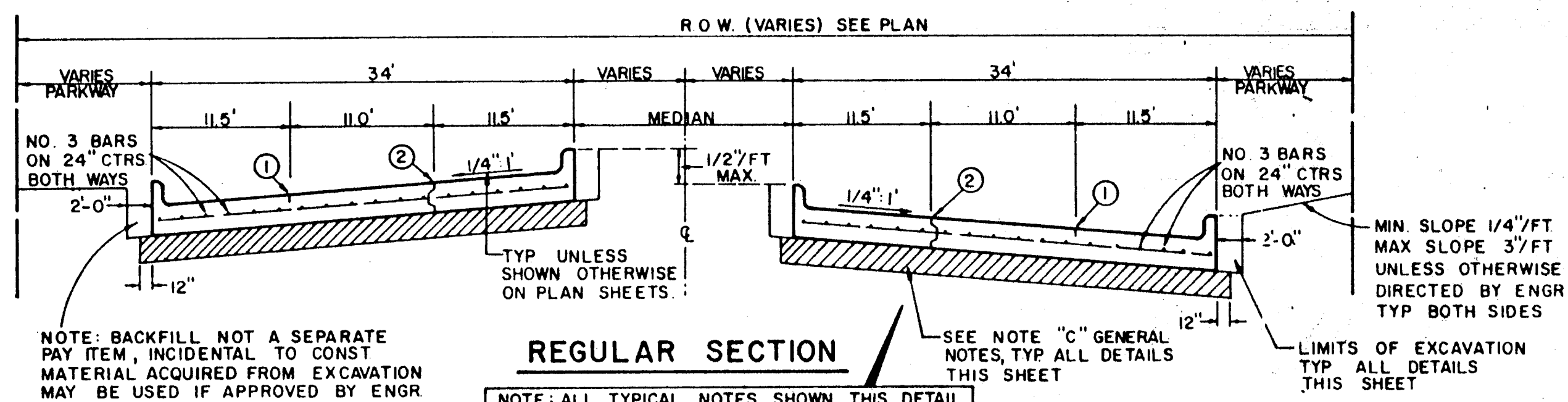
GENERAL NOTES FOR ALLEYS AND DRIVEWAYS

1. 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 PLANS.
2. CONCRETE FOR ALLEY PAVEMENT SHALL BE OF THE STRENGTH SPECIFIED ON THE CONSTRUCTION PLANS. (3000 P.S.I. OR 3600 P.S.I. MINIMUM COMPRESSIVE)
3. SPACING AND CONSTRUCTION OF JOINTS SHALL CONFORM TO STREET PAVEMENT DETAILS.



TOWN OF ADDISON, TEXAS
DEPARTMENT OF ENGINEERING
STANDARD CONSTRUCTION DETAILS
PAVING

ALLEY & DRIVEWAY RETURNS



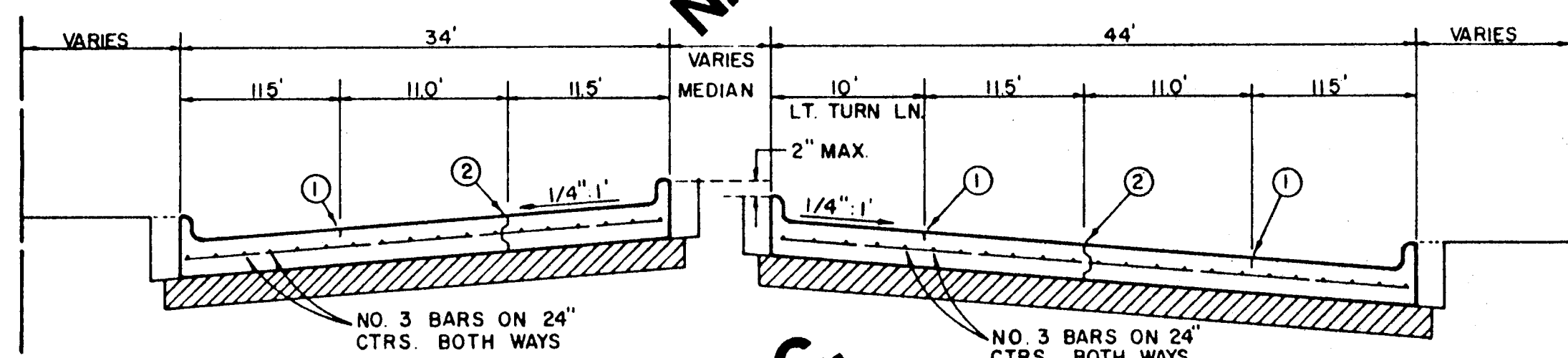
REGULAR SECTION

NOTE: BACKFILL NOT A SEPARATE PAY ITEM. INCIDENTAL TO CONST. MATERIAL ACQUIRED FROM EXCAVATION MAY BE USED IF APPROVED BY ENGR.

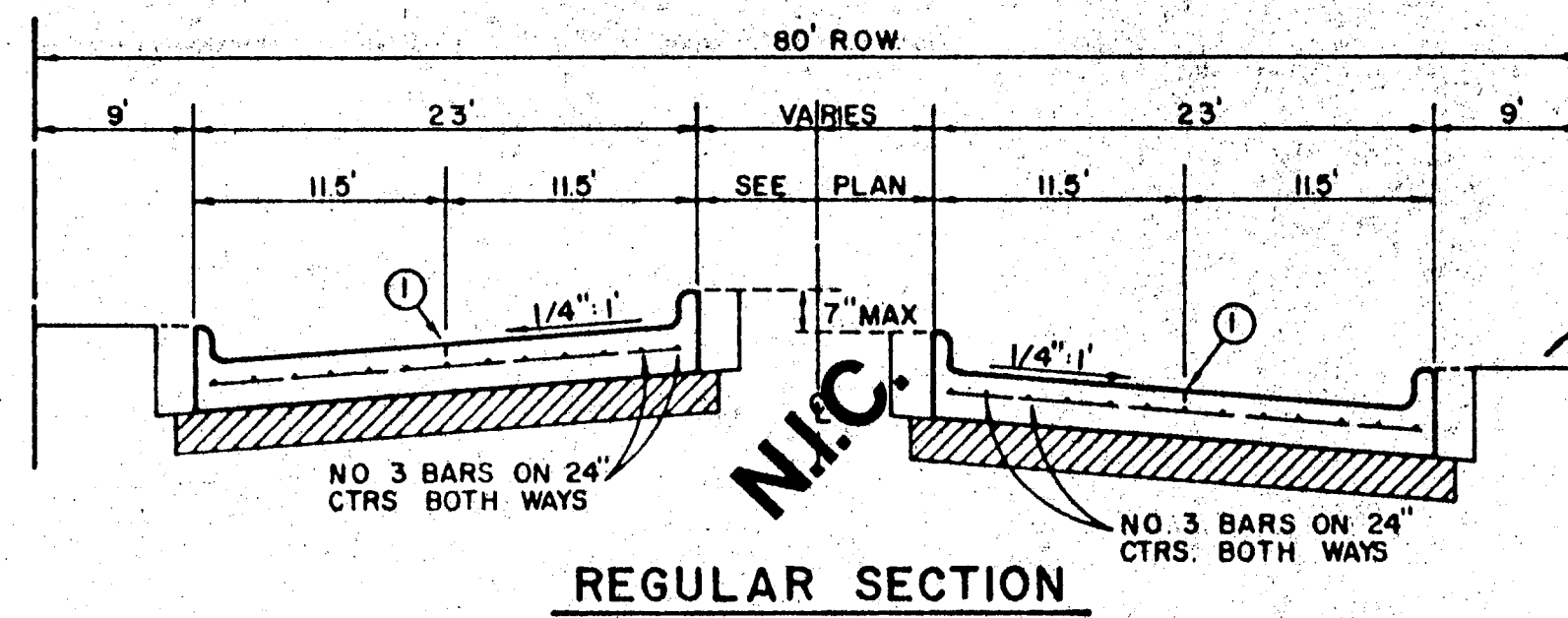
NOTE: ALL TYPICAL NOTES SHOWN THIS DETAIL SHALL APPLY TO ALL DETAILS THIS SHEET UNLESS OTHERWISE INDICATED.

SEE NOTE "C" GENERAL NOTES, TYP ALL DETAILS THIS SHEET

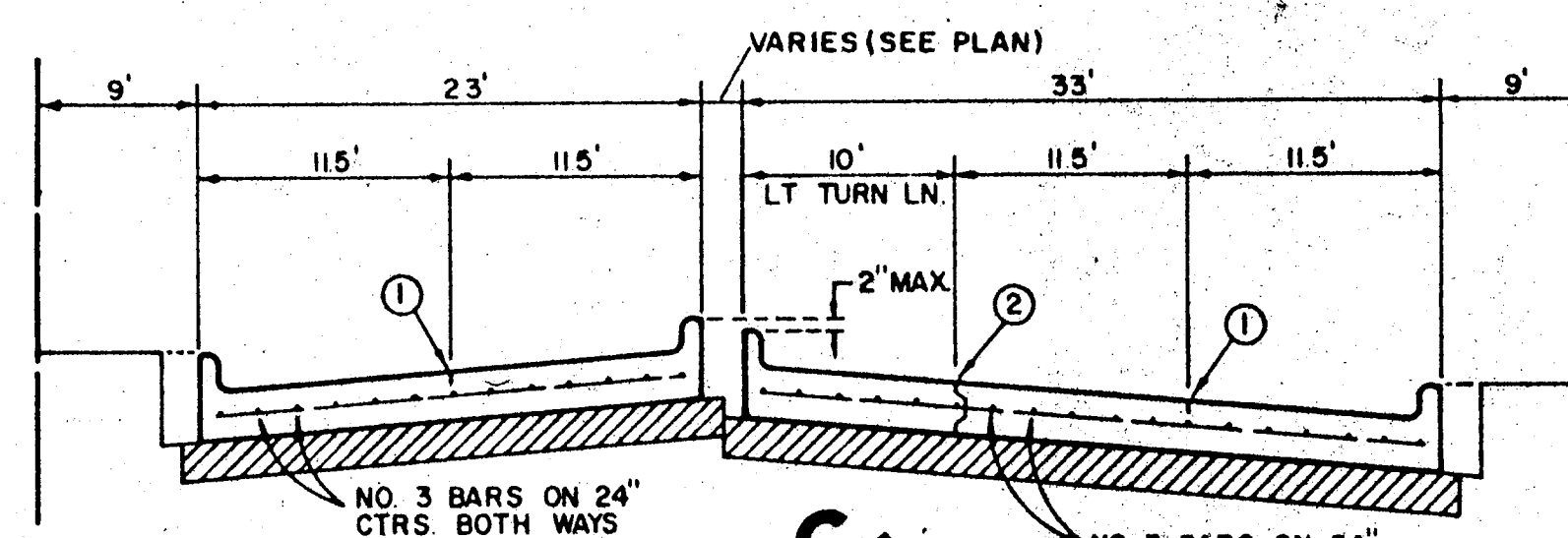
LIMITS OF EXCAVATION TYP ALL DETAILS THIS SHEET



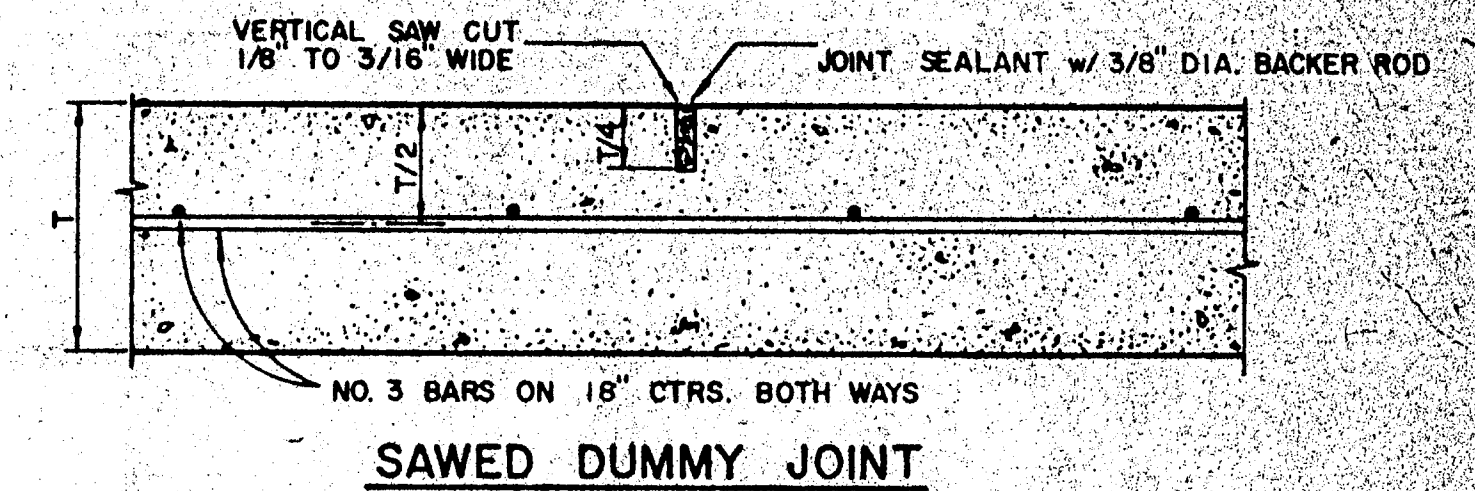
LEFT TURN SECTION
MAJOR ARTERIAL



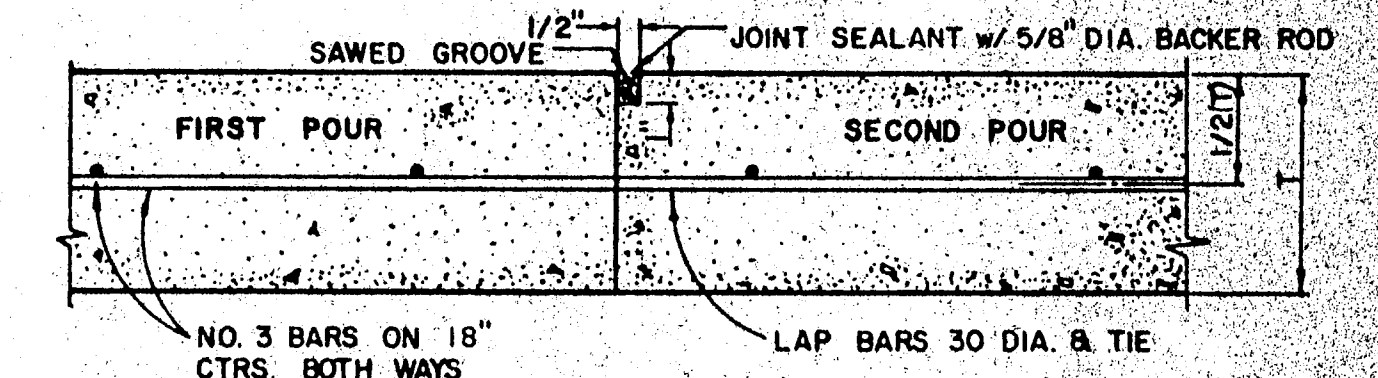
REGULAR SECTION



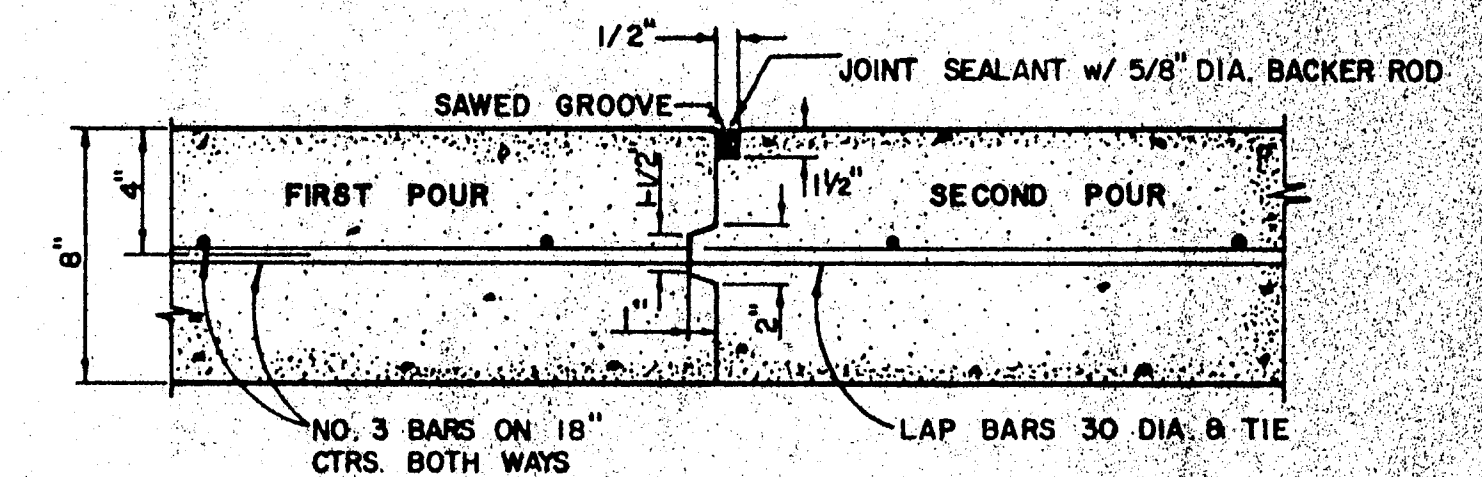
LEFT TURN SECTION
MINOR ARTERIAL



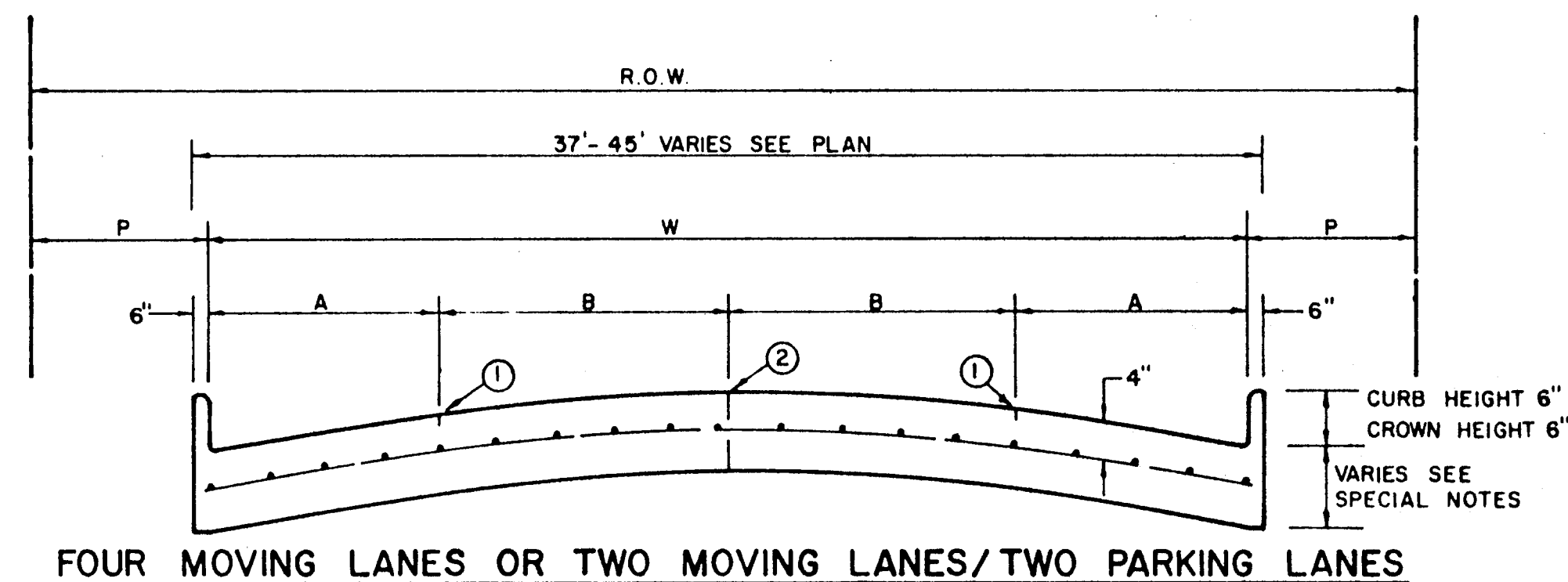
SAWED DUMMY JOINT



CONSTRUCTION JOINT FOR 6 INCH PAVEMENT



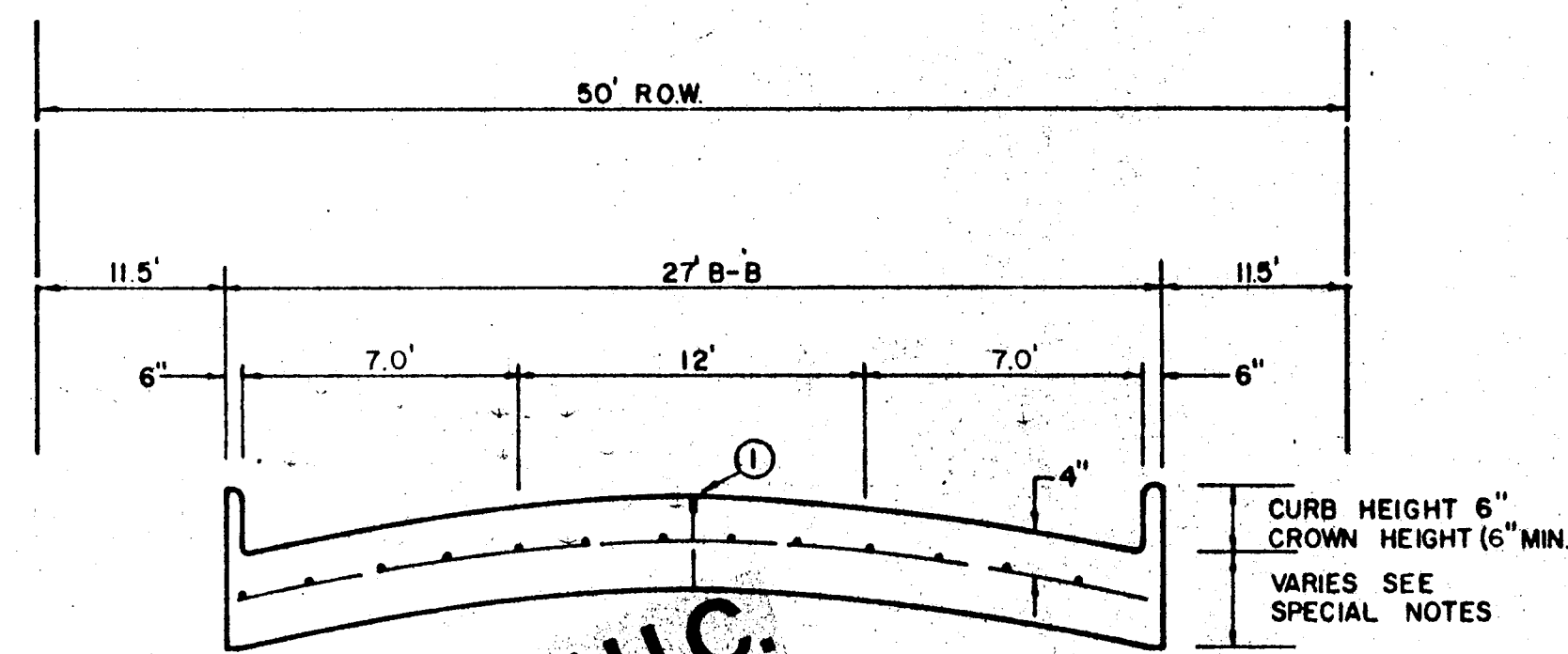
CONSTRUCTION JOINT FOR 8 INCH PAVEMENT



FOUR MOVING LANES OR TWO MOVING LANES/TWO PARKING LANES

STREET TYPE	STREET WIDTH (W)	A	B	ROW WIDTH	P
COLLECTOR	36'	8'	10'	60'	11.5'
COLLECTOR	40'	8' OR 10'	10' OR 12'	60'	9.5'
COLLECTOR	44'	11'	11'	65'	10.0'

COLLECTOR STREET

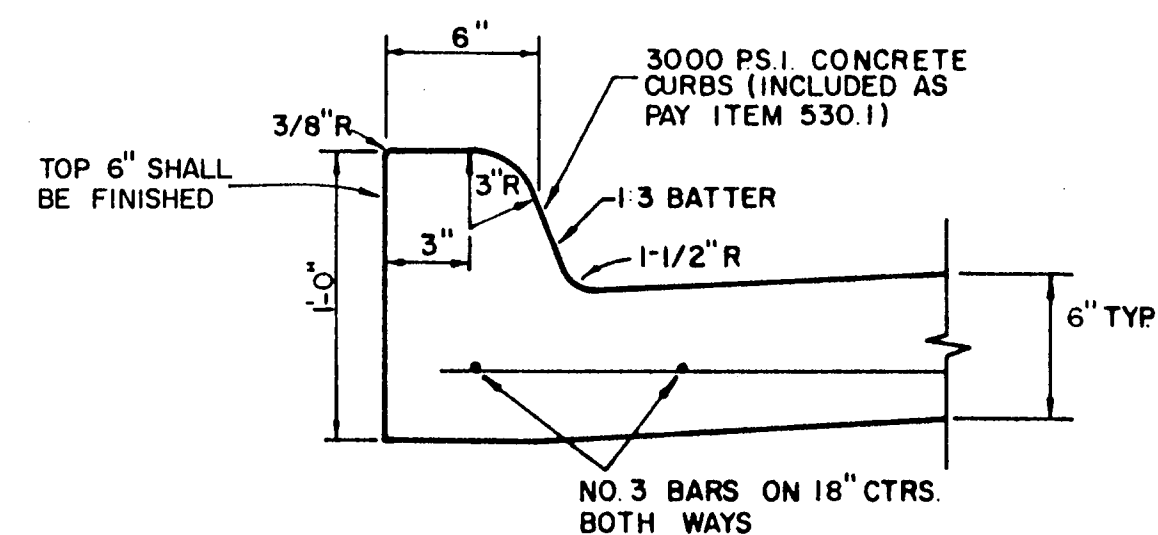


ONE MOVING LANE / TWO PARKING LANES

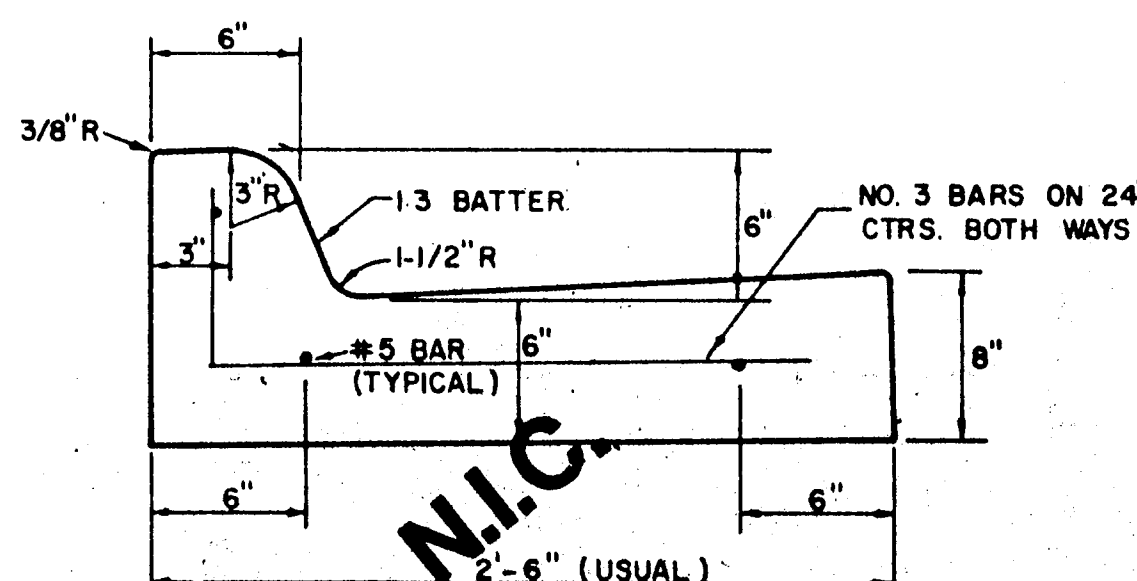
LOCAL STREET

REINFORCED CONCRETE PAVEMENT

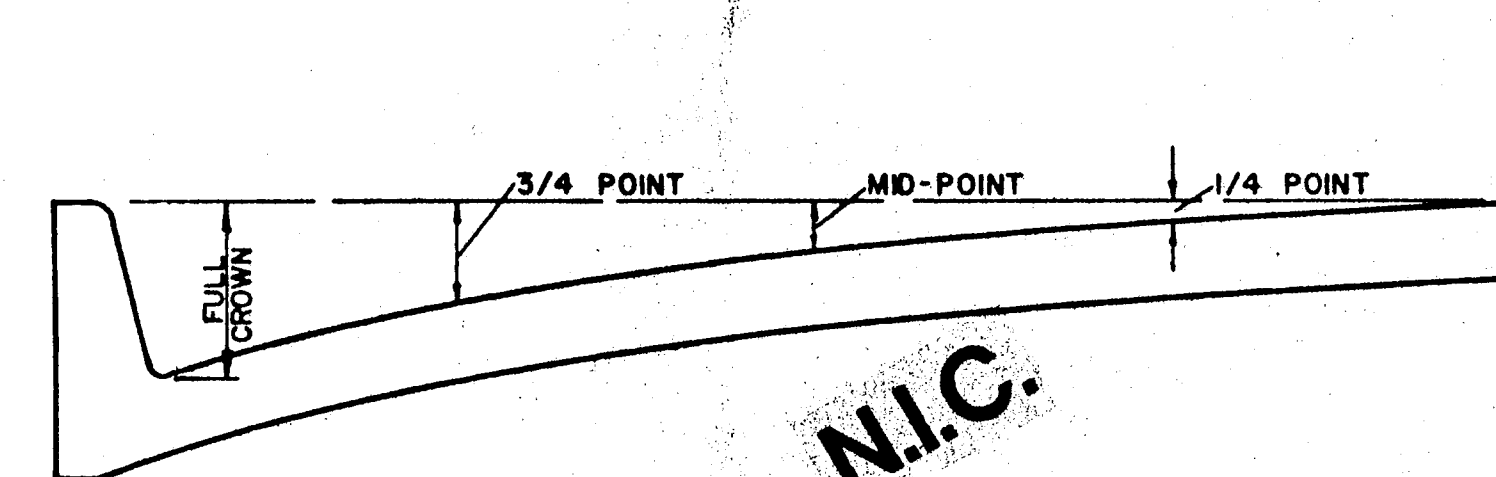
- ALL REINFORCING BARS SHALL BE NO. 3 TRANSVERSE BARS TO BE SPACED ON 1'-6" CENTERS, LONGITUDINAL BARS TO BE SPACED ON 1'-6" EXCEPT WHERE NOTED.
- UNDIVIDED STREETS-PROVIDE 4" DBL.-REF. YELLOW & BUTTON P-117-Y PATTERNS TO BE ESTABLISHED BY ENGINEER SEE DETAIL SHEET
- SAWED LONGITUDINAL DUMMY JOINT.
 - CONSTRUCTION JOINT (FULL WIDTH PVMT IS ALLOWED WHERE APPROVED BY ENGINEER).
 - FINISH SHALL BE TRANSVERSE WITH TRAFFIC LANES AND SHALL BE STEEL TINED BROOM FINISH.



STANDARD CURB



SEPARATE CURB AND GUTTER

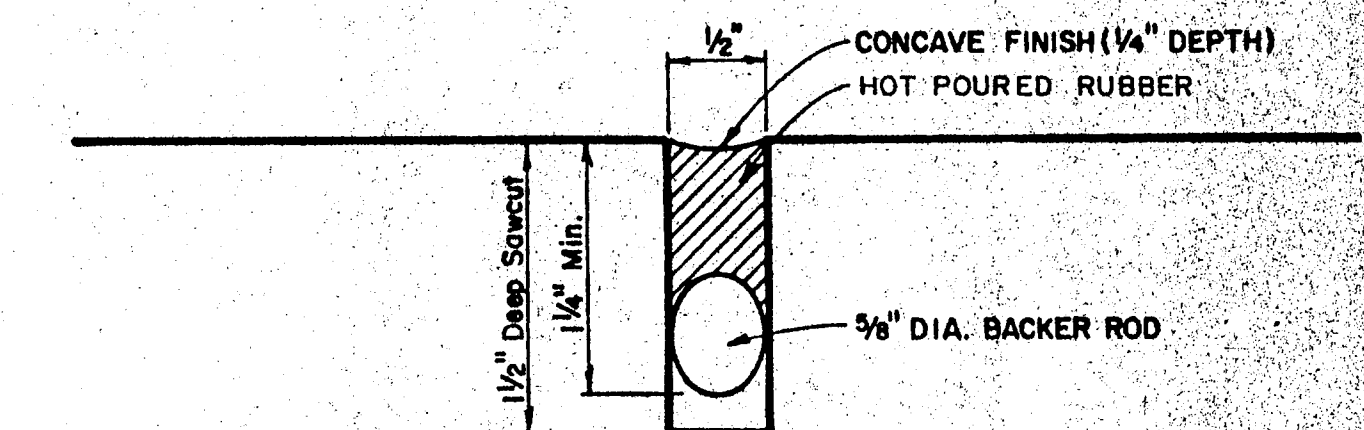


ROADWAY WIDTH (W)	TOTAL CROWN HEIGHT	3/4 POINT	MID-POINT	1/4 POINT
26'	6"	3-3/8"	1-1/2"	3/8"
36'	6"	3-3/8"	1-1/2"	3/8"
44'	6"	3-3/8"	1-1/2"	3/8"
48'	6"	3-3/8"	1-1/2"	3/8"

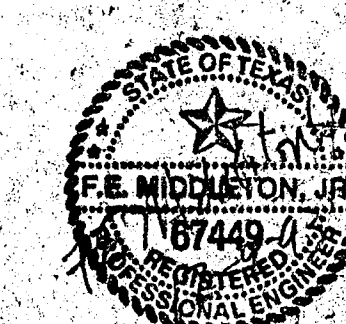
TABLE OF CROWN HEIGHTS AND ORDINATES FOR VARIOUS PARABOLIC SECTIONS

GENERAL NOTES

- GENERAL PAVEMENT THICKNESS FOR STREETS SHALL BE AS SPECIFIED BELOW IN SPECIAL NOTES.
- STANDARD SPECIFICATIONS REINFORCED CONCRETE PAVEMENTS
 - ALL CURBS SHALL BE PLACED INTEGRAL WITH PAVEMENT
 - CURBS SHALL MEET THE SAME COMPRESSIVE STRENGTH AS SPECIFIED FOR THE CONCRETE PAVEMENT.
 - DETAIL AND ARRANGEMENT OF JOINTS, ALL TYPES, SHALL BE AS SHOWN ON THE STANDARD CONSTRUCTION DETAILS, OR AS APPROVED BY ENGINEER.
 - BAR LAPS SHALL BE 30 DIAMETERS.
- BAR CHAIRS OR AN APPROVED SUPPORTING DEVICE SHALL BE FURNISHED.



TYPICAL JOINT DETAIL

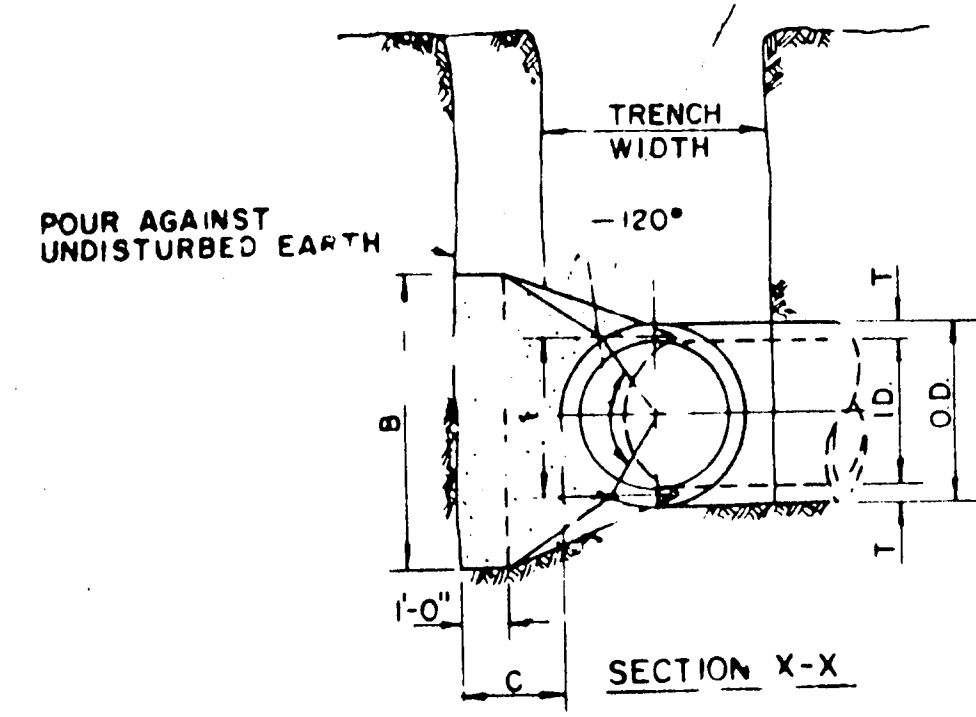
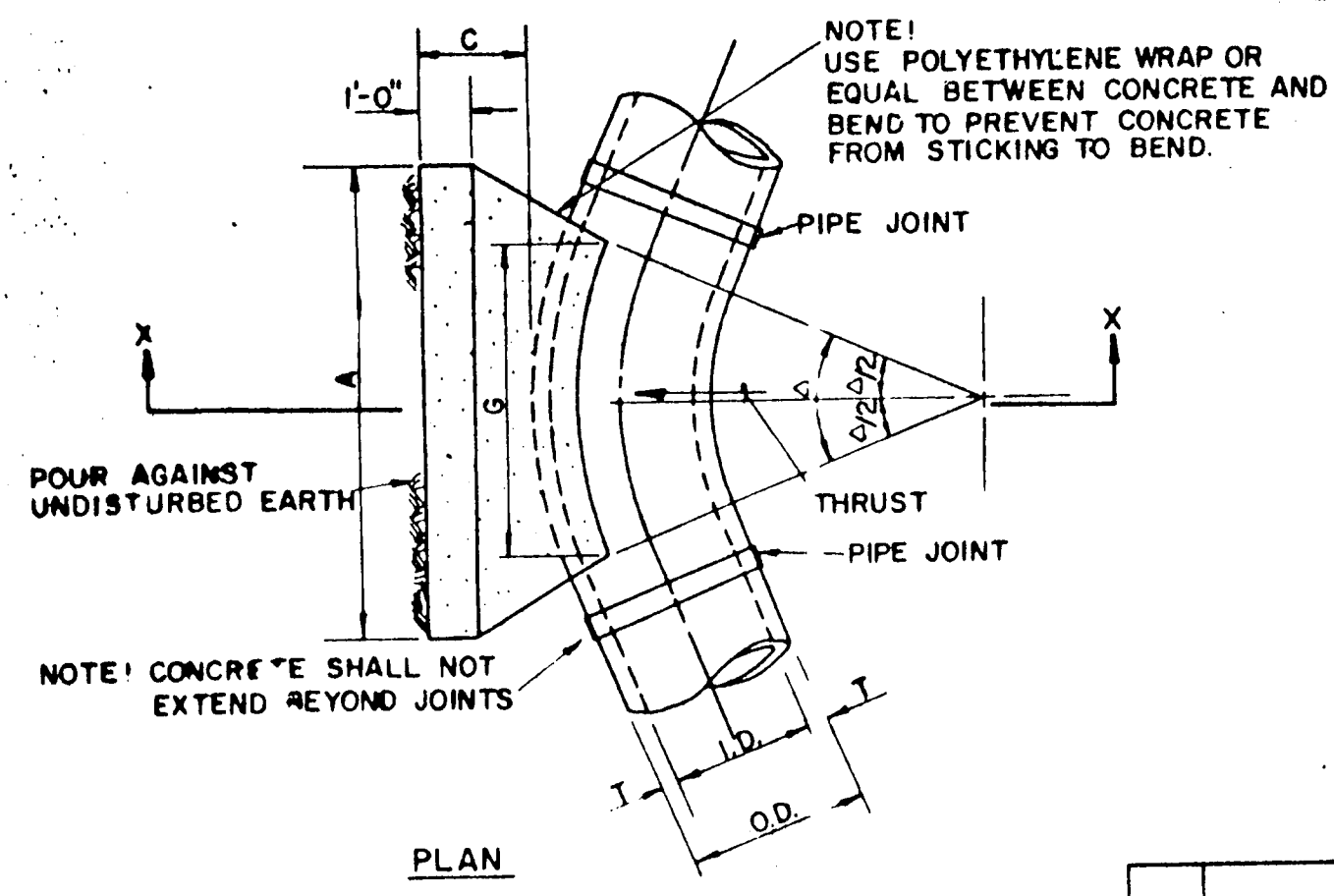


TOWN OF ADDISON, TEXAS
DEPARTMENT OF ENGINEERING

STANDARD CONSTRUCTION DETAILS
PAVING

STREET CROWNS & JOINTS

Designed -	Drawn -	Date -	Job No.
Approved -	Checked -	Scale -	Sheet 13 of 18



I.D. (IN.)	T (IN.)	C 11.25"			C 22.50"		
		A	B	VOL. C.Y.	A	B	VOL. C.Y.
4.68	0.4	1.5	1.5	0.9			
10.12	0.5	1.5	1.5	1.2			
16.18	0.6	1.5	1.5	1.8			
20	0.7	1.5	1.5	1.8			
24	0.9	1.5	1.5	2.1			
30	2.9	1.5	1.5	2.8			
36	4.5	1.5	1.5	3.3			
42	5.0	1.8	1.8	3.0			
48	5.5	2.0	2.0	4.3			
54	6.0	2.3	2.3	4.6			
60	6.5	2.5	2.5	5.3			
66	6.8	2.8	2.8	5.7			
72	7.5	3.0	3.0	6.3			
78	7.5	3.3	3.3	6.7			
84	8.0	3.5	3.5	7.2			
90	8.5	3.8	3.8	7.7			
96	9.0	4.0	4.0	8.2			

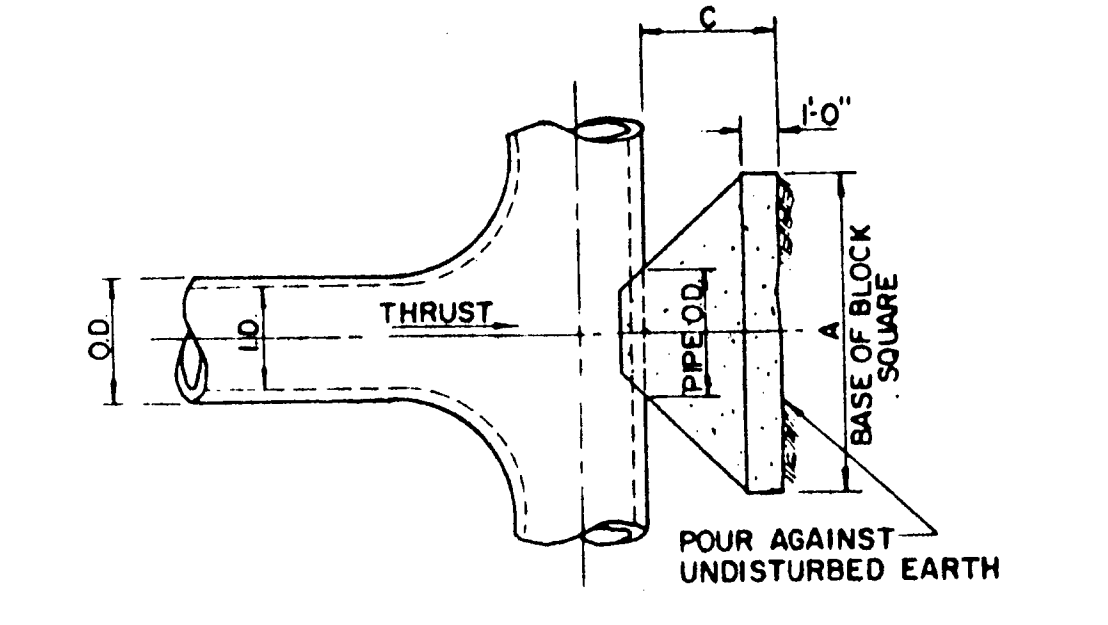
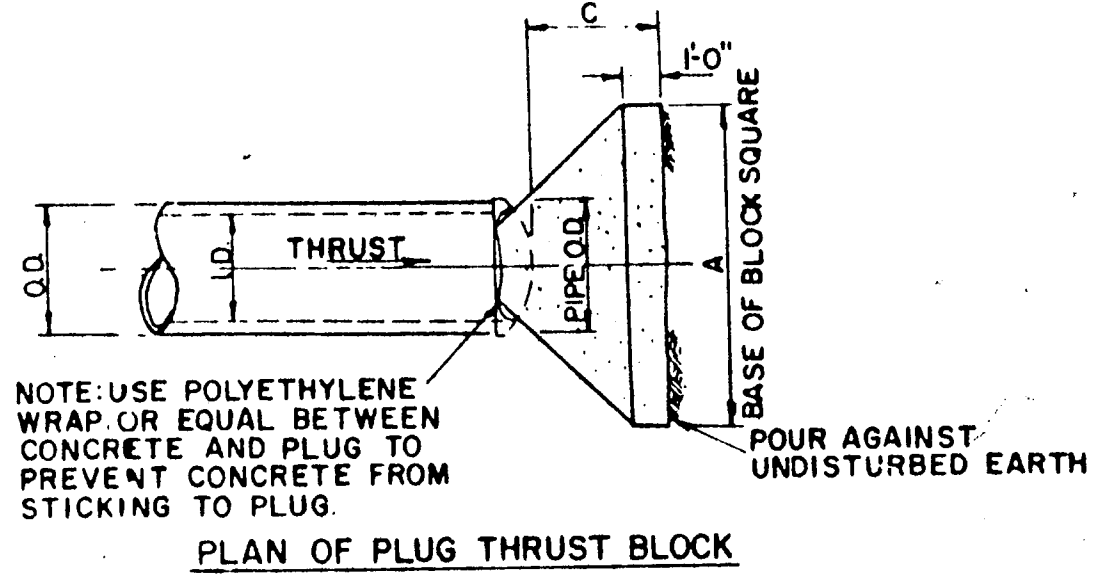
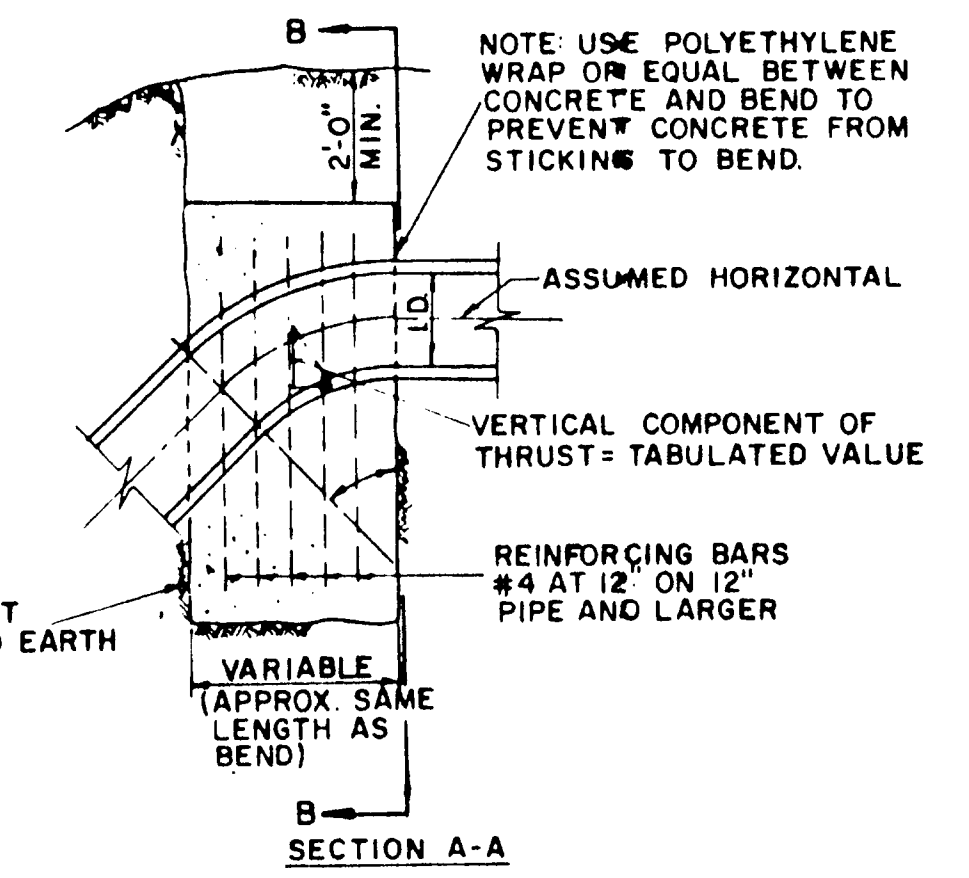
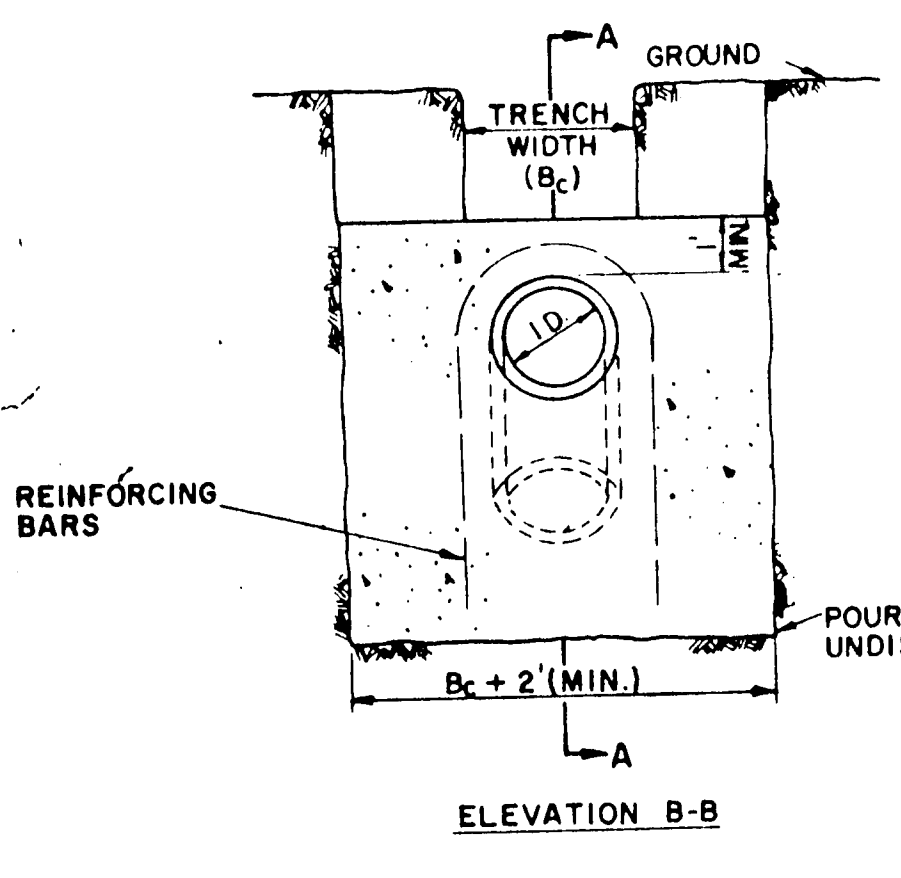
I.D. (IN.)	G (FT.)	EARTH			ROCK			I.D. (IN.)	G (FT.)	EARTH			ROCK			
		A	B	VOL. C.Y.	A	B	VOL. C.Y.			A	B	VOL. C.Y.	A	B	VOL. C.Y.	
4.68	0.4	1.0	1.0	0.1	1.0	1.0	0.1	4.68	0.8	2.0	1.5	0.1	1.0	1.0	0.1	
10.12	0.6	2.2	1.5	0.1	1.0	1.5	0.1	10.12	1.1	4.4	2.0	2.5	0.3	1.5	1.5	0.1
16.18	0.8	5.0	2.0	2.5	0.3	1.5	2.0	16.18	1.6	9.9	3.0	3.5	0.6	2.0	2.5	0.3
20	0.9	6.2	2.0	3.5	0.4	1.5	3.0	20	1.8	12.3	3.5	3.5	0.7	2.0	3.5	0.4
24	1.1	8.9	3.0	3.0	0.5	1.5	3.0	24	2.2	17.7	4.0	4.5	1.0	3.0	3.0	0.5
30	1.4	10.4	3.0	3.5	0.6	2.0	3.5	30	2.7	20.7	5.0	4.5	1.5	3.0	4.0	0.8
36	1.7	15.0	3.5	4.5	0.9	2.0	4.0	36	3.3	29.8	5.5	5.5	2.3	4.0	4.0	1.3
42	1.9	20.4	4.5	5.0	1.5	2.5	5.0	42	3.8	40.5	7.0	6.0	3.9	4.5	5.0	2.1
48	2.2	26.6	4.5	6.0	2.0	2.5	6.0	48	4.4	52.9	8.0	7.0	5.7	4.8	6.0	2.8
54	2.5	33.7	6.0	6.0	3.0	3.0	6.0	54	4.9	67.0	9.0	8.0	8.0	6.0	6.0	4.1
60	2.7	41.6	6.0	7.0	3.8	3.0	7.0	60	5.5	82.7	9.5	9.0	10.6	6.0	7.0	5.3
66	3.0	50.3	6.5	8.0	5.1	3.5	8.0	66	6.0	100.1	10.5	10.0	14.1	6.5	8.0	7.2
72	3.3	59.9	7.5	8.0	6.3	4.0	8.0	72	6.6	119.1	11.0	11.0	17.6	7.5	8.0	9.1
78	3.6	70.2	8.0	9.0	8.1	4.0	9.0	78	7.1	139.8	12.0	12.0	22.5	8.0	9.0	11.7
84	3.8	81.5	8.5	10.0	10.3	4.5	10.0	84	7.6	162.1	13.0	12.5	27.2	8.5	10.0	14.6
90	4.1	93.5	9.5	10.0	12.2	5.0	10.0	90	8.2	186.1	14.0	13.5	33.7	9.5	10.0	17.7
96	4.4	106.4	10.0	11.0	15.0	5.0	11.0	96	8.7	211.7	15.0	14.5	41.2	10.0	11.0	21.8

HORIZONTAL BEND THRUST BLOCK

I.D. (IN.)	G (FT.)	EARTH			ROCK			I.D. (IN.)	G (FT.)	EARTH			ROCK				
		A	B	VOL. C.Y.	A	B	VOL. C.Y.			A	B	VOL. C.Y.	A	B	VOL. C.Y.		
4.68	1.0	2.6	2.0	1.5	0.2	1.0	1.8	0.1	4.68	1.5	3.9	2.0	2.0	0.2	1.5	1.5	0.1
10.12	1.9	5.9	2.5	2.5	0.3	2.0	1.5	0.2	10.12	2.2	6.7	3.5	2.5	0.3	2.0	2.0	0.3
16.18	2.2	13.2	3.5	4.0	0.8	2.5	3.0	0.8	16.18	3.2	19.5	4.5	4.5	1.2	3.0	3.5	0.8
20	2.4	16.3	4.5	4.0	1.0	3.0	3.0	0.5	20	3.6	24.1	5.5	4.5	1.5	3.5	3.8	0.7
24	2.9	23.4	6.0	4.0	1.4	3.5	3.5	0.7	24	4.3	34.6	8.0	4.5	2.3	4.5	4.0	1.1
30	3.6	27.5	5.5	5.0	1.8	3.5	4.0	0.9	30	5.4	40.6	8.5	5.0	3.2	5.0	4.0	1.4
36	4.4	38.5	7.0	6.0	3.4	4.5	4.5	1.6	36	6.5	58.5	10.0	6.0	5.3	6.5	4.5	2.6
42	5.1	53.8	8.0	7.0	5.1	5.5	5.0	2.5	42	7.5	79.6	11.5	7.0	8.1	6.0	5.0	4.2
48	5.8	70.3	9.0	8.0	7.4	6.0	6.0	3.7	48	8.6	104.0	13.0	8.0	11.9	9.0	6.0	6.3
54	6.3	89.0	10.0	9.0	10.3	7.0	6.5	5.3	54	9.7	131.8	15.0	9.0	17.1	10.5	6.5	8.8
60	7.3	110.0	11.0	10.0	13.9	7.5	7.5	7.3	60	10.7	162.4	16.5	10.0	23.1	11.0	7.5	12.0
66	8.0	132.9	12.5	11.0	18.9	8.5	8.0	9.6	66	11.8	196.5	18.0	11.0	30.1	12.0	8.5	16.2
72	8.7	158.2	13.5	12.0	24.0	9.0	9.0	12.3	72	12.9	233.9	19.5	12.0	38.6	14.0	8.5	20.7
78	9.4	185.6	14.5	13.0	30.0	10.0	9.5	15.6	78	13.9	274.5	21.5	13.0	49.6	14.5	9.5	25.9
84	10.1	215.3	15.5	14.0	37.1	10.5	10.5	19.5	84	15.0	318.4	23.0	14.0	61.2	15.5	10.5	32.6
90	10.9	247.1	16.5	15.0	45.0	11.5	11.0	23.9	90	16.1	365.5	24.5	15.0	74.5	17.5	10.5	39.6
96	11.6	281.2	18.0	16.0	55.5	12.5	11.5	28.9	96	17.1	415.6	26.0	16.0	89.5	18.5	11.5	48.5

I.D. (IN.)	G (FT.)	EARTH			ROCK			I.D. (IN.)	G (FT.)	EARTH			ROCK				
		A	B	VOL. C.Y.	A	B	VOL. C.Y.			A	B	VOL. C.Y.	A	B	VOL. C.Y.		
4.68	2.1	5.6	3.0	2.0	0.3	2.0	1.5	0.2	4.68	2.7	7.1	3.0	1.8	0.4	2.0	2.0	0.2
10.12	3.1	12.6	5.5	2.5	0.8	3.5	2.0	0.4	10.12	4.0	16.0	6.5	2.8	1.0	3.0	2.8	0.5
16.18	4.7	28.3	7.5	4.0	1.9	5.0	3.0	0.9	16.18	6.0	36.0	8.0	4.0	2.4	4.0	4.0	1.0
20	5.2	34.9	9.0	4.0	2.3	5.5	3.5	1.2	20	6.6	44.4	10.0	4.5	3.1	6.0	4.0	1.5
24	6.2	50.3	11.5	4.5	3.5	6.5	4.0	1.6	24	7.9	64.0	14.5	4.5	5.0	8.0	4.0	2.1
30	7.8	58.9	12.0	5.0	4.8	7.5	4.0	2.2	30	9.9	75.0	15.0	5.0	6.7	10.0	4.0	3.3
36	9.4	84.9	14.5	6.0	8.2	9.5	4.8	3.8	36	11.9	108.0	18.0	6.0	11.4	12.0	4.5	5.3
42	10.9	116.5	17.0	7.0	12.8	11.0	5.5	6.3	42	13.9	147.0	21.0	7.0	17.8	14.0	5.5	6.7
48	12.5	150.9	19.0	8.0	18.4	13.0	6.0	9.2	48	15.9	192.0	24.0	8.0	26.2	16.0	6.0	12.4
54	14.0	191.0	21.5	9.0	26.0	15.0	6.5	12.9	54	17.9	243.0	27.0	9.0	36.9	18.0	7.0	18.1
60	15.8	235.8	24.0	10.0	35.6	16.0	7.5	17.6	60	19.9	299.8	30.0	10.0	50.3	20.0	7.5	24.0
66	17.1	285.3	26.0	11.0	46.0	18.0	8.0	23.0	66	21.8	362.8	33.0	11.0	64.2	22.0	8.5	32.5
72	18.7	339.5	28.5	12.0	57.8	19.0	9.0	28.4	72	23.8	431.8	36.0	12.0	85.6	24.0	9.0	41.0
78	20.2	398.5	31.0	13.0	73.7	21.0	9.5	37.4	78	25.7	506.7	39.0	13.0	108.2	26.0	10.0	53.2
84	21.8	462.1	33.5	14.0	94.7	22.0	10.5	46.5	84	27.7	587.7	42.0	14.0	134.4	28.0	10.5	64.8
90	23.3	530.5	35.5	15.0	114.4	24.0	11.0	58.2	90	29.0	674.6	45.0	15.0	164.9	30.0	11.5	81.2
96	24.9	603.8	38.0	16.0	138.9	25.0	12.0	70.0	96	31.6	767.5	48.0	16.0	199.0	32.0	12.0	95.1

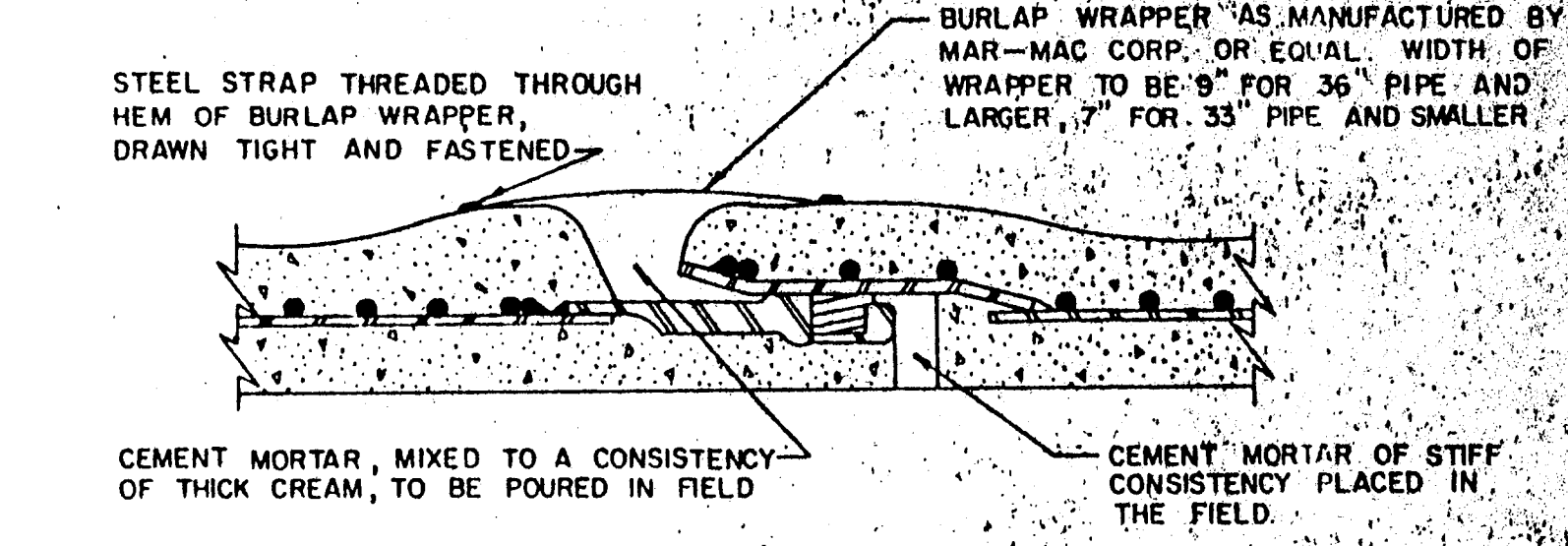
HORIZONTAL BEND THRUST BLOCK



I.D. (IN.)	THRUST TONS	C (FT.)	EARTH		ROCK	
			A VOL. C.Y.	B VOL. C.Y.	A VOL. C.Y.	B VOL. C.Y.
4.68	5.1	1.5	2.5	0.3	2.0	0.2
10.12	11.3	1.5	3.5	0.8	2.5	0.3
16.18	25.5	2.0	5.5	1.6	4.0	0.8
20	31.5	2.0	6.0	1.7	4.0	0.9
24	45.2	2.5	7.0	3.1	5.0	1.7
30	55.0	3.0	7.5	4.1	5.5	2.4
36	76.3	4.0	9.0	7.3	6.5	4.2
42	104.0	4.5	10.5	11.0	7.5	6.2
48	136.0	5.0	12.0	15.6	8.5	8.7
54	172.0	5.5	13.5	21.4	9.5	11.9
60	212.0	6.0	15.0	28.4	10.5	15.7
66	257.0	6.5	16.5	36.8	11.5	20.5
72	305.0	7.5	17.5	47.2	12.5	27.2
78	358.0	8.0	19.0	58.9	13.5	33.7
84	416.0	8.5	20.5	72.3	14.5	41.2
90	477.0	9.0	22.0	87.7	15.5	49.7
96	543.0	9.5	23.5	104.8	16.5	61.0

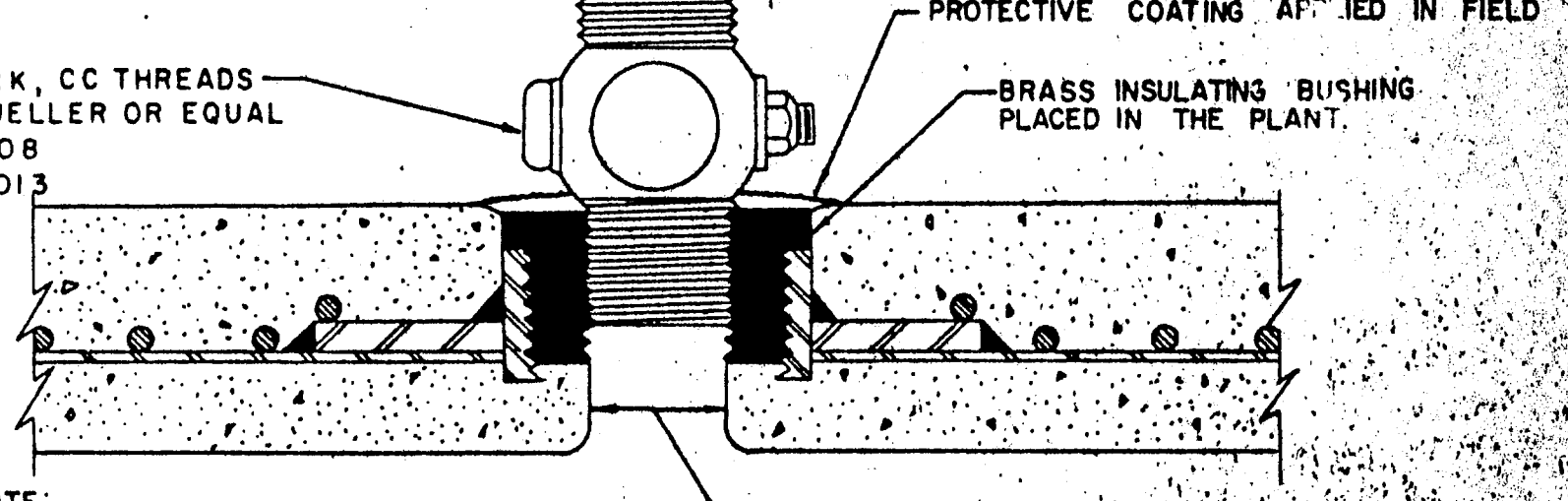
PLUG & TEE THRUST BLOCK

NOTE: PROVIDE 1" MINIMUM THICKNESS CONCRETE OR CEMENT MORTAR COATING IN THE FIELD FOR THE PROTECTION OF ALL EXPOSED STEEL SUCH AS FLANGES, CAULKED JOINTS, THREADED OUTLETS, CLOSURES, ETC. THE CEMENT MORTAR USED SHALL CONSIST OF ONE PART PORTLAND CEMENT TO TWO AND ONE-HALF PARTS OF FINE SHARP (PLASTER) SAND. WHERE SHOWN, COATING IS TO BE REINFORCED WITH WIRE MESH.

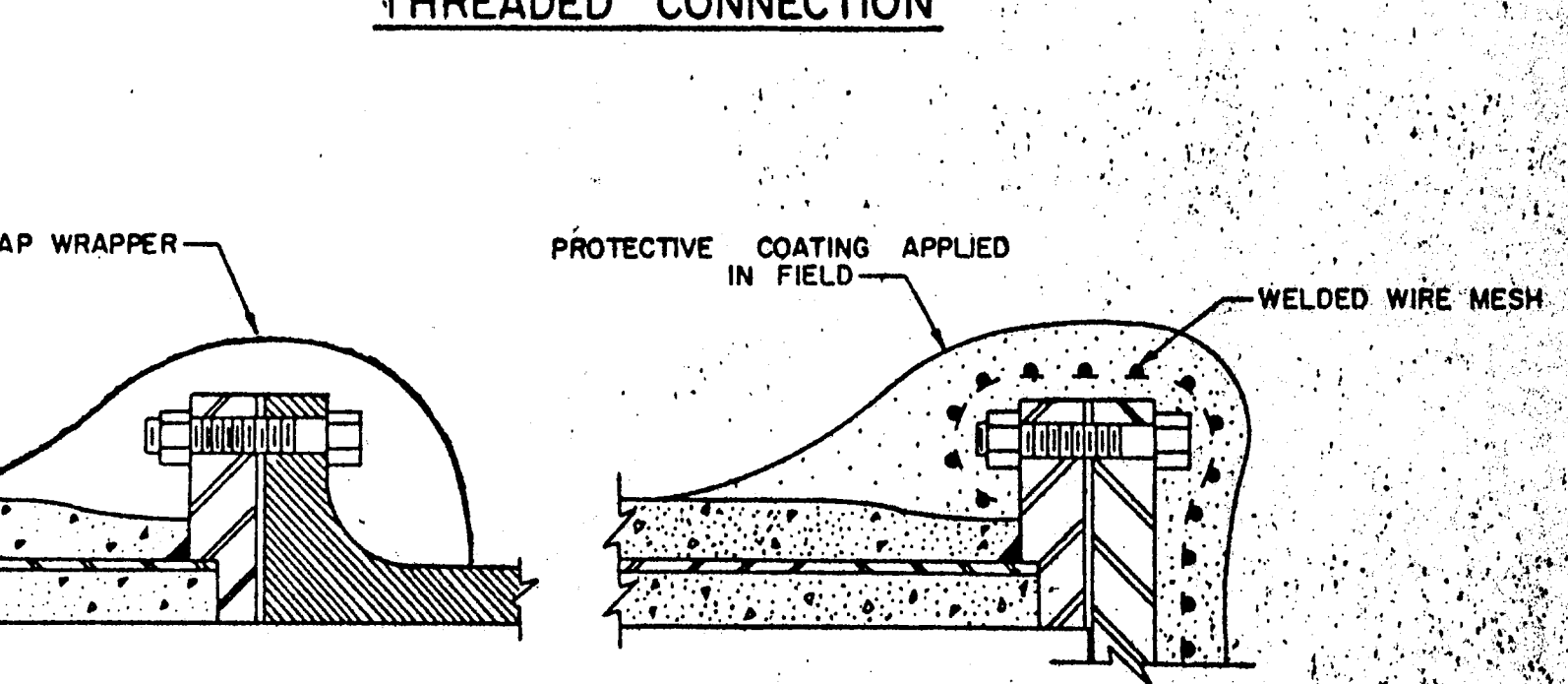


STANDARD RUBBER GASKET JOINT

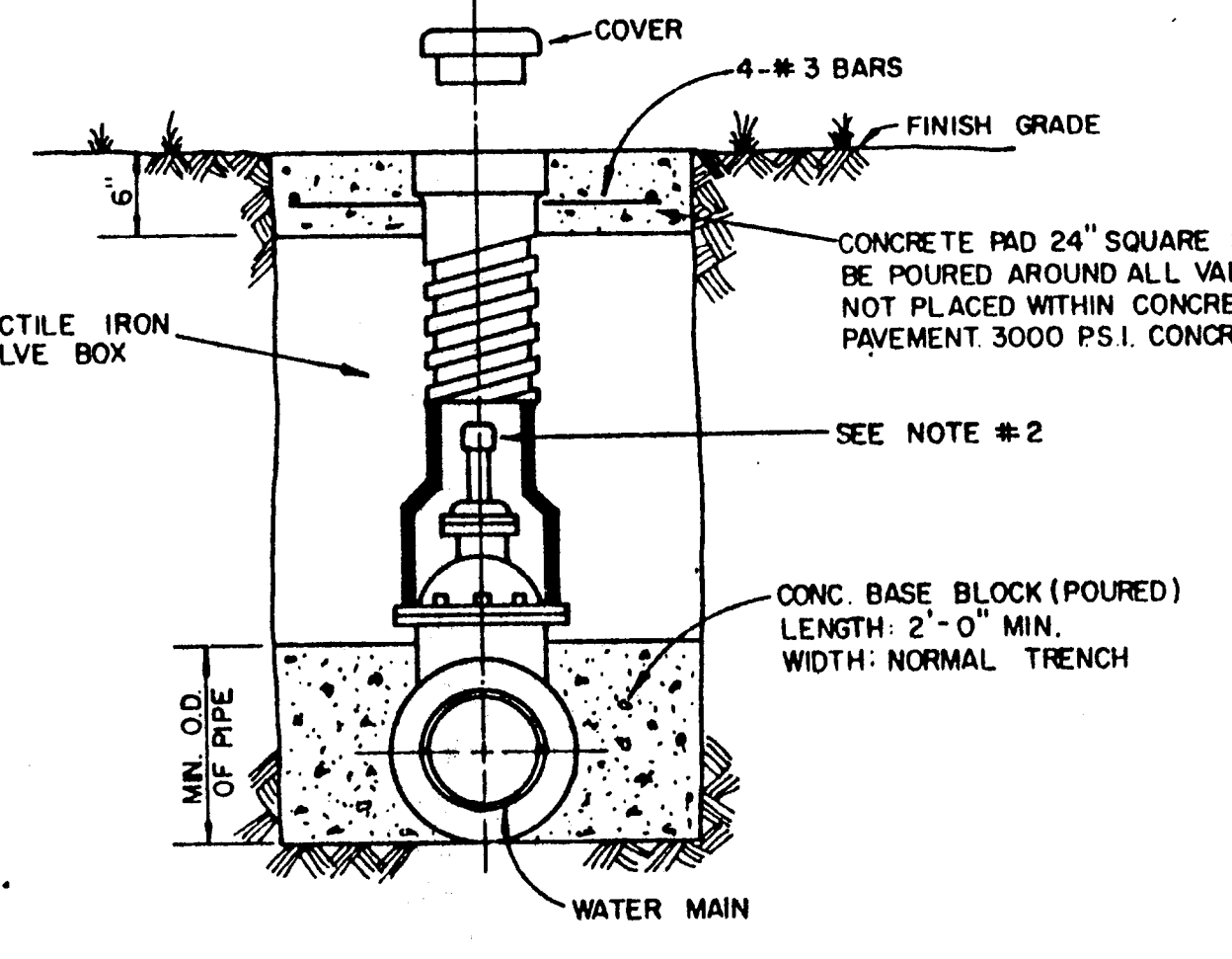
NOTE: ALL CLOSURE SECTIONS SHALL BE FABRICATED WITH HAND HOLES TO ALLOW WIPING INSIDE OF JOINTS AFTER CLOSURE IS IN PLACE



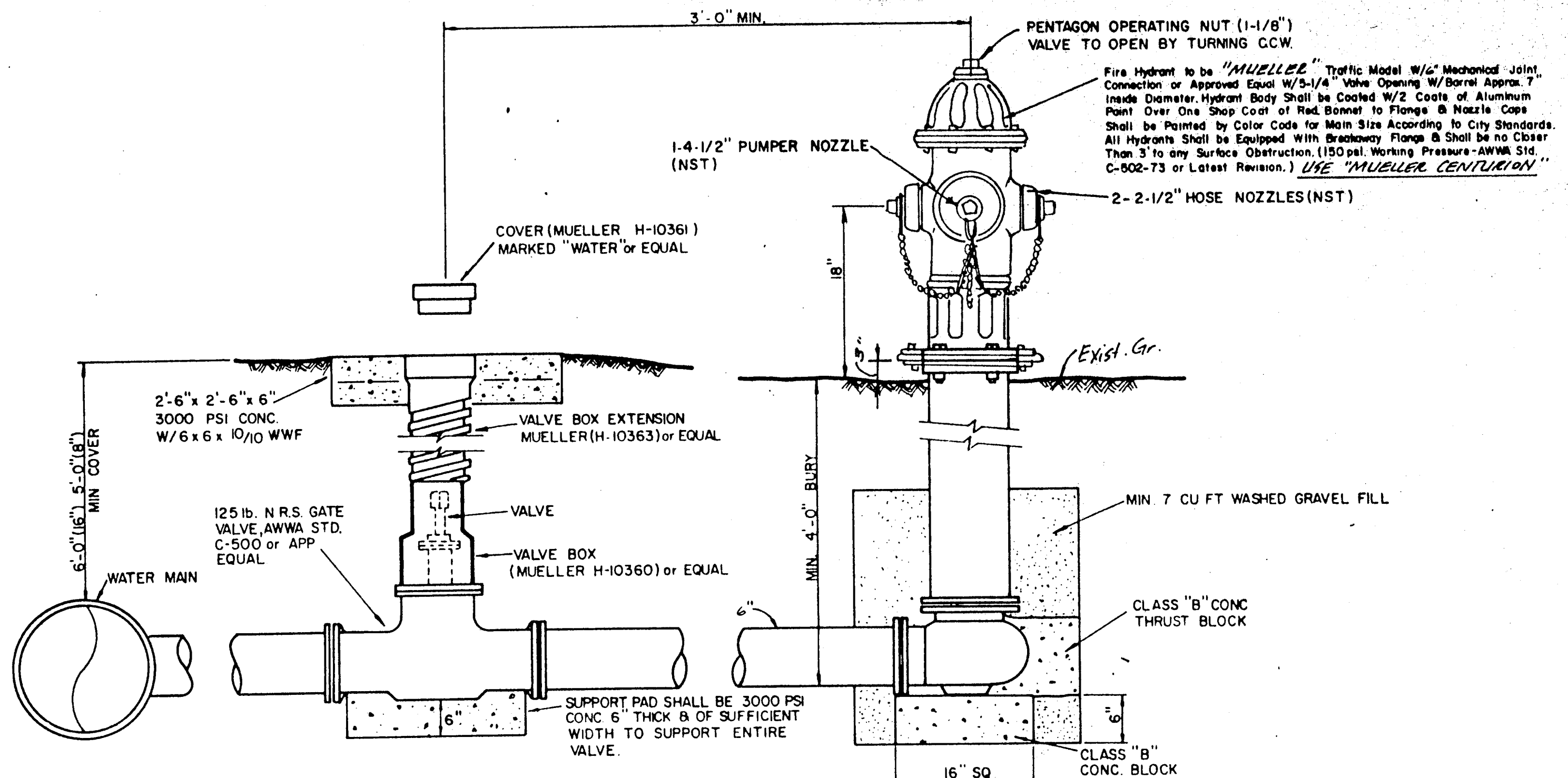
THREADED CONNECTION



FLANGED CONNECTIONS



NOTE: 1. GATE VALVES SHALL BE IN ACCORDANCE WITH AWWA STANDARD C-509-80 OR LATEST THEREOF ALL VALVES SHALL BE "MUELLER" OR APPROVED EQUAL. 2. A PERMANENTLY ATTACHED VALVE EXTENSION STEM SHALL BE REQUIRED FOR ANY VALVE THATS OPERATING NUT IS LOCATED IN EXCESS OF 4 FEET BELOW THE TOP OF VALVE BOX. THIS EXTENSION SHALL BE OF SUFFICIENT LENGTH TO INSURE THAT ITS TOP IS WITHIN 4" OF VALVE BOX LID. MANUFACTURED VALVE STACK DUCTILE IRON PIPE TO BE USED FOR EXTENSION GREATER THAN 4'-

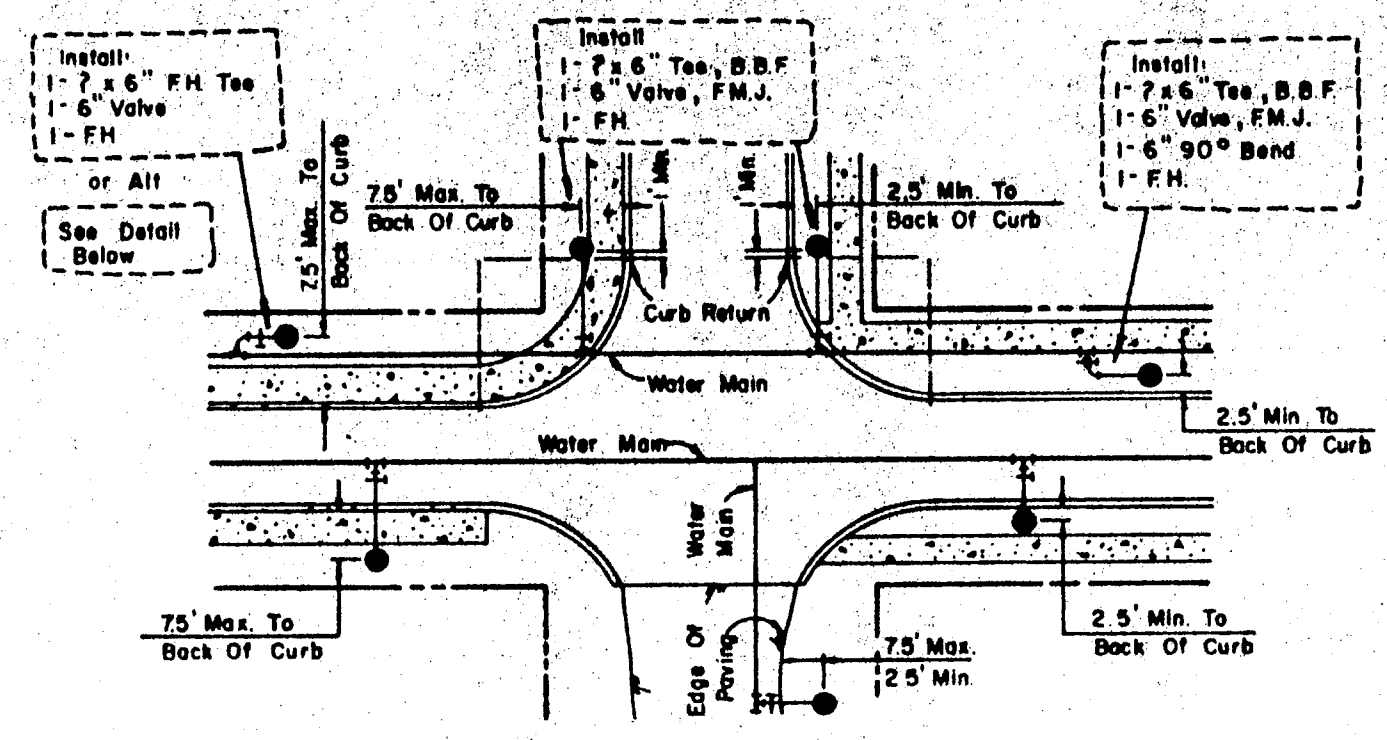


VALVE BOX DETAIL
(SEE PLANS FOR "MAIN SIZE")

FIRE HYDRANT INSTALLATION
(INCLUDES 6" VALVE)
No Scale

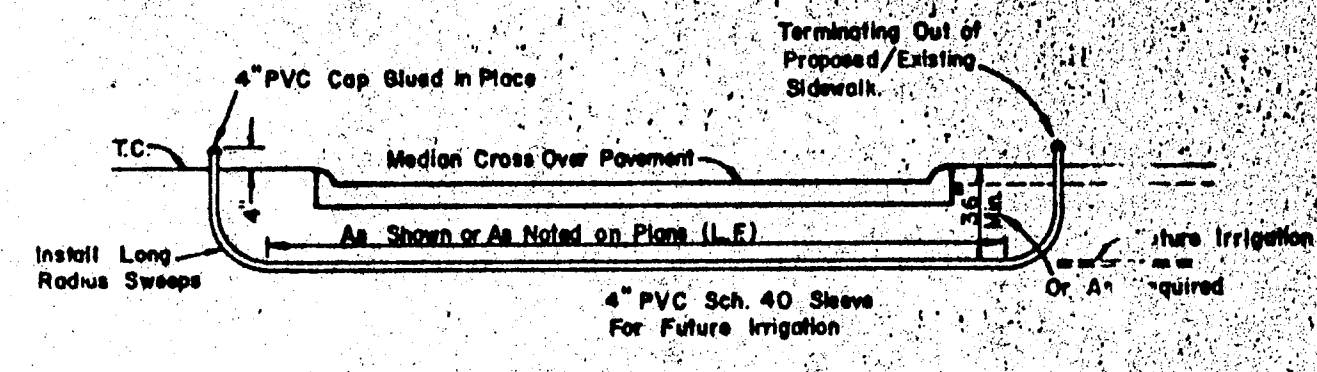
GATE VALVES AND VALVE BOXES.

- GATE VALVES SHALL BE IRON BODY, BRONZE OR BRASS MOUNTED, NON-RISING STEM, PARALLEL SEAT TYPE VALVES SHALL BE OF EQUAL OR GREATER PRESSURE CLASS THAN THE PIPING IN WHICH THEY ARE TO BE INSTALLED.
- VALVE BOXES SHALL BE CAST IRON AND SHALL BE OF SUFFICIENT LENGTH AND DIAMETER TO OPERATE ALL VALVES BURIED IN THE GROUND. COVERS SHALL BE MARKED "WATER." THE BOXES SHALL REST ON THE VALVE AND BE ADJUSTED SO THAT THE COVER MAY BE SET FLUSH WITH THE FINISHED GRADE.

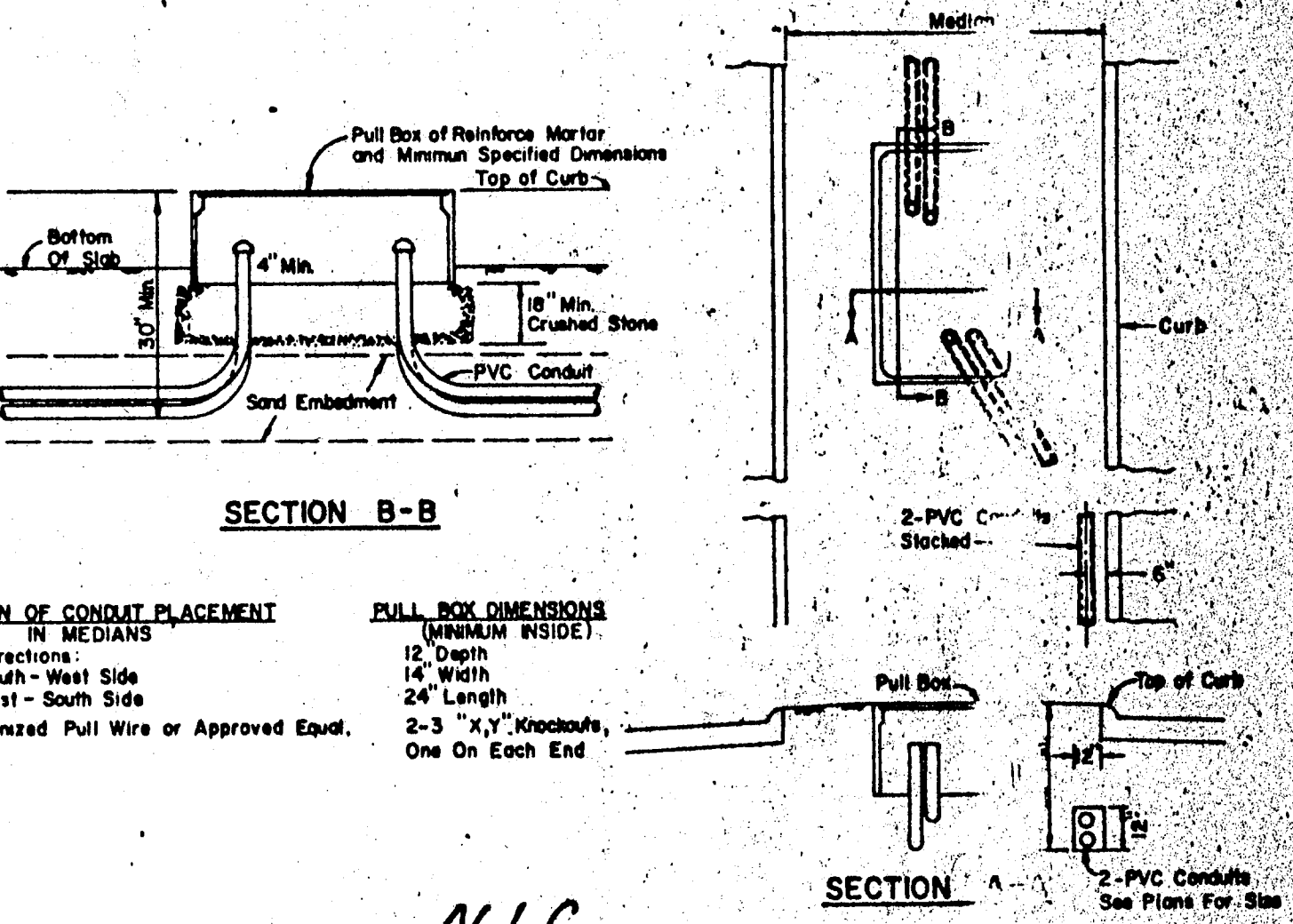


ELEVATION VIEW OF FIRE HYDRANT

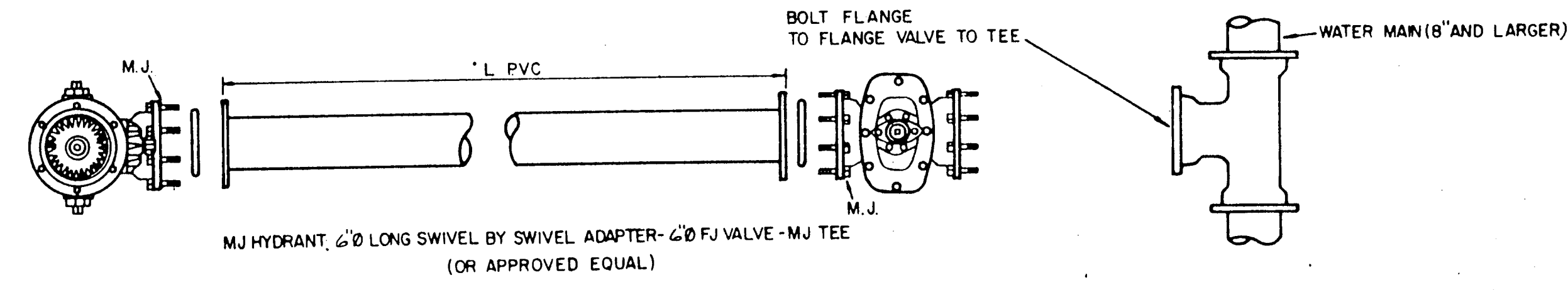
- GENERAL NOTES**
- 6" OF F.H. BARREL SHALL BE NOT LESS THAN 6.0' OR MORE THAN 9.0' FROM BACK OF CURB OR EDGE OF PAVEMENT.
 - DO NOT SET F.H. IN AN EXISTING OR PROPOSED SIDEWALK, UNLESS OTHERWISE NOTED.
 - ALL F.H. TEES SHALL BE M.J. WITH ANCHORING ON THE BRANCH WITH M.J. VALVE.
 - SET F.H. ON THE LOT LINE EXTENDED WHEN POSSIBLE.
 - ON PRIVATE CONTRACTS, THE DEVELOPER'S ENGINEER WILL STATE LOCATION & GRADE.
 - NEVER PLACE F.H. WHERE FIRE TRUCK COULD NOT PARK BESIDE IT.



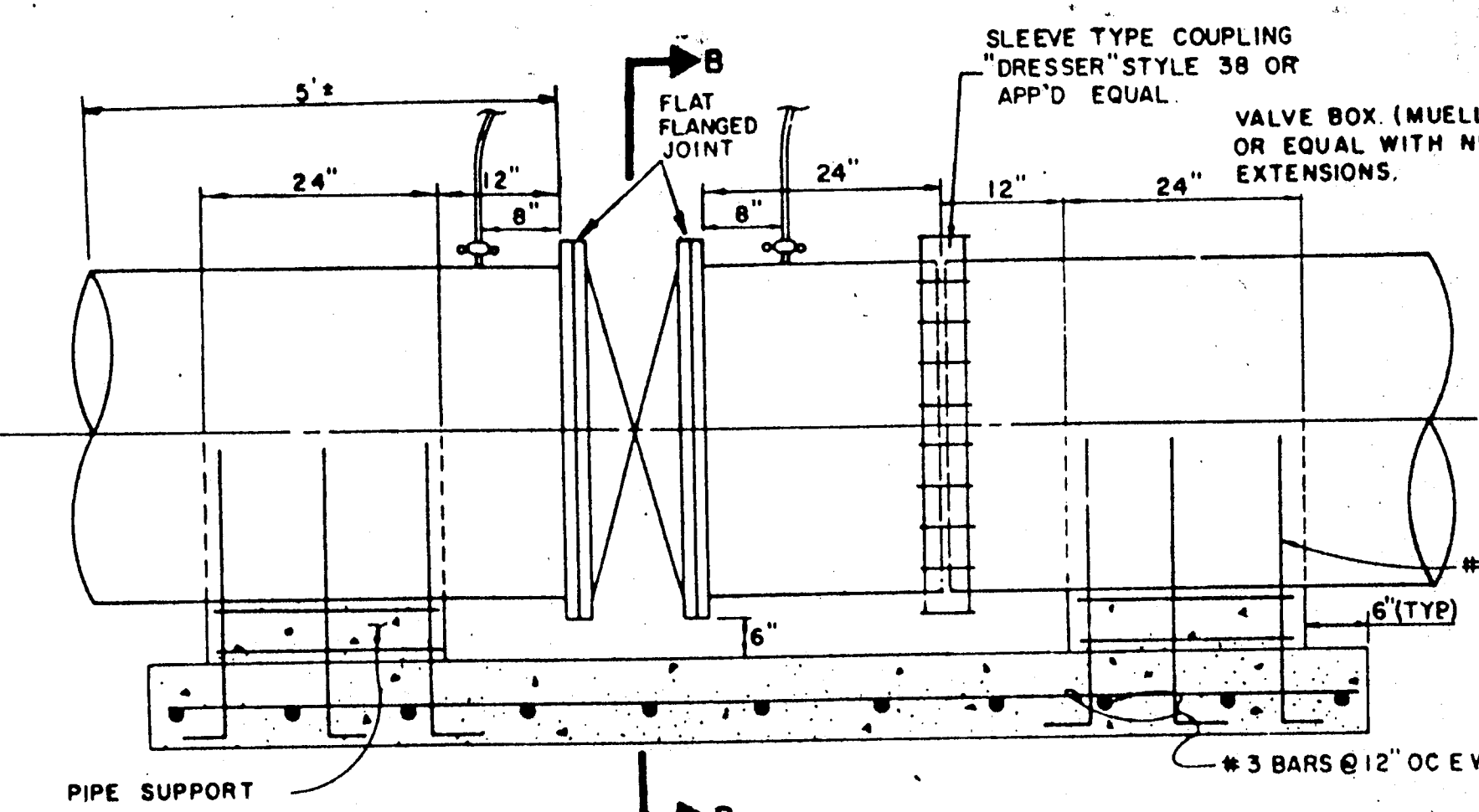
PVC SLEEVE FOR FUTURE IRRIGATION



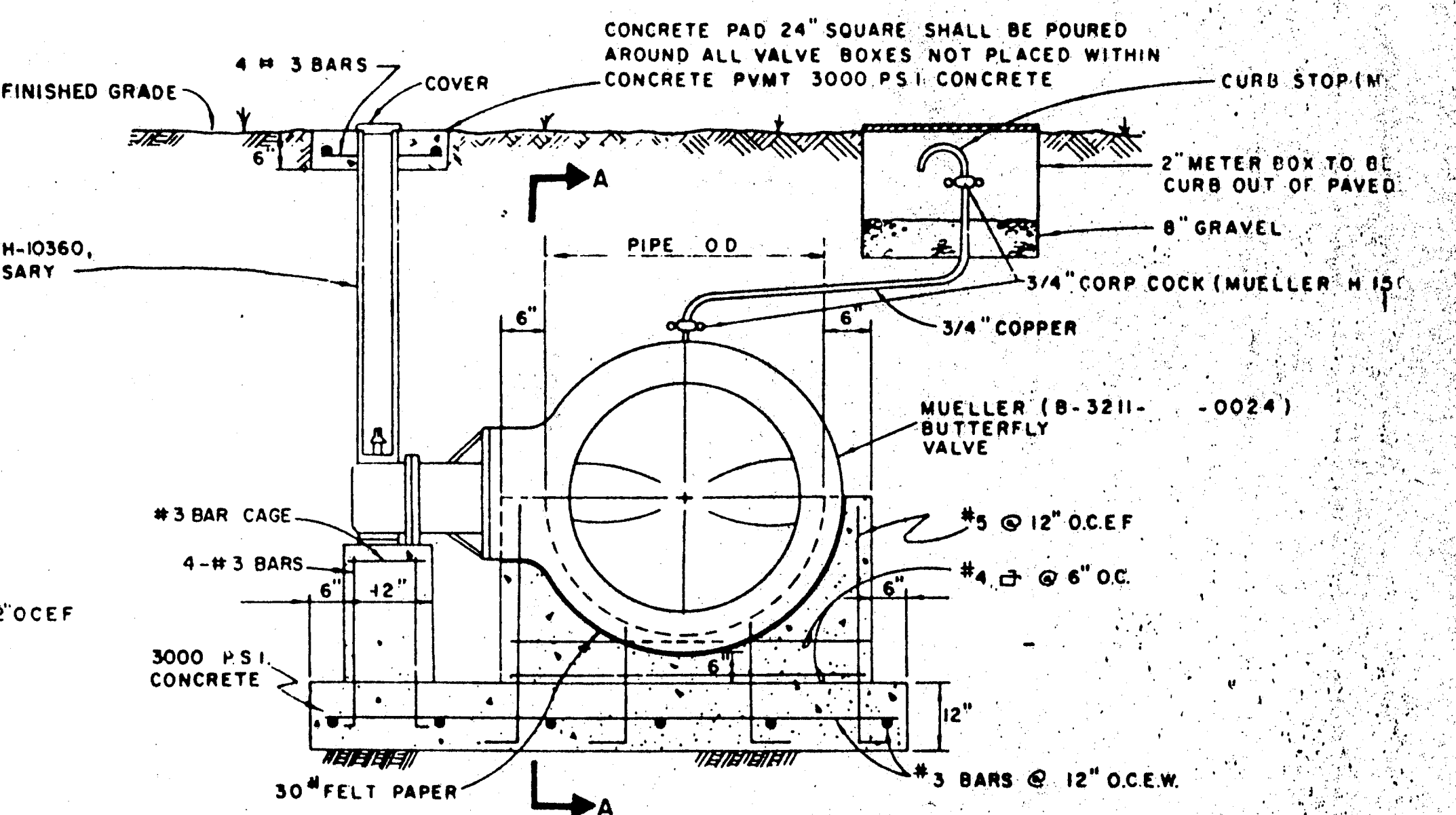
PULL BOX & CONDUIT DETAIL



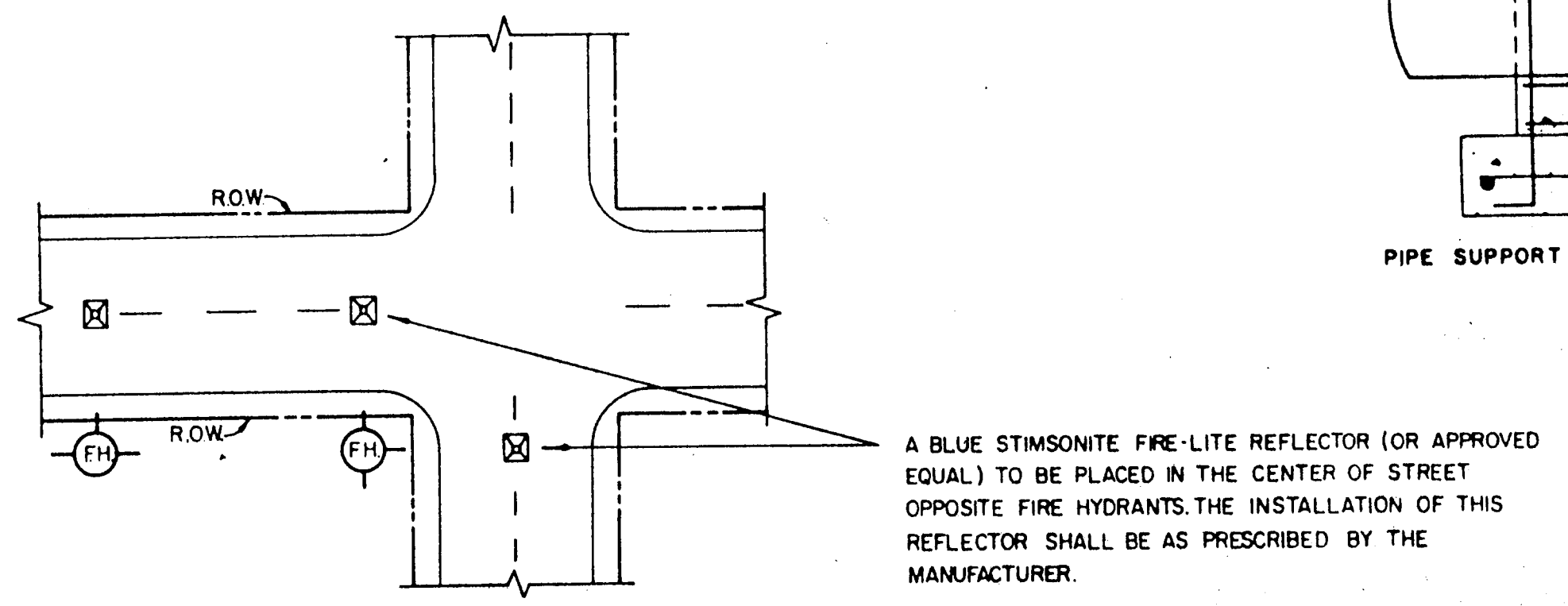
TYPICAL FIRE HYDRANT INSTALLATION



SECTION A-A



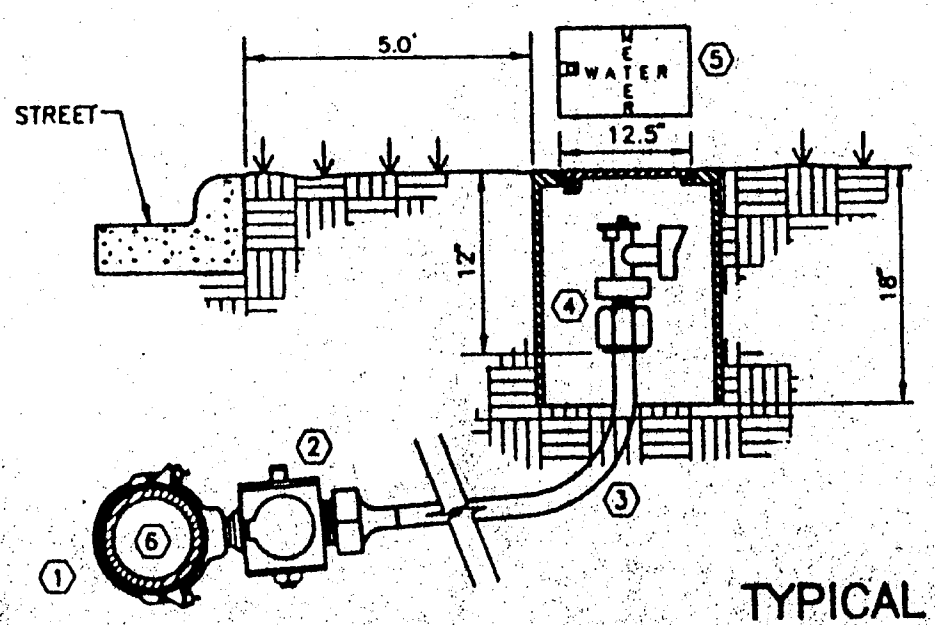
SECTION B-B



TYPICAL FIRE HYDRANT REFLECTOR INSTALLATION

BUTTERFLY VALVE DETAIL

N.I.C.

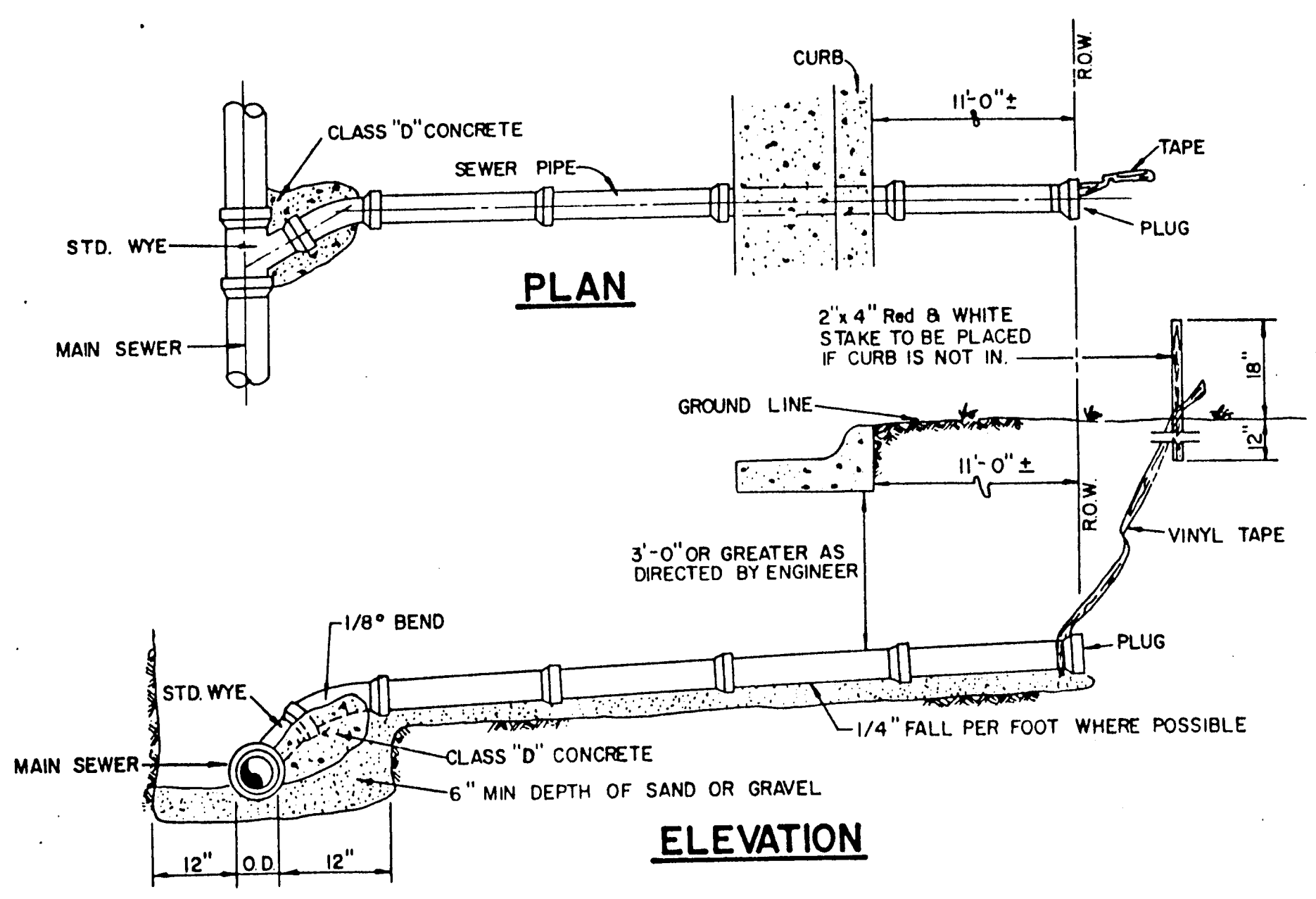


TYPICAL WATER SERVICE DETAIL

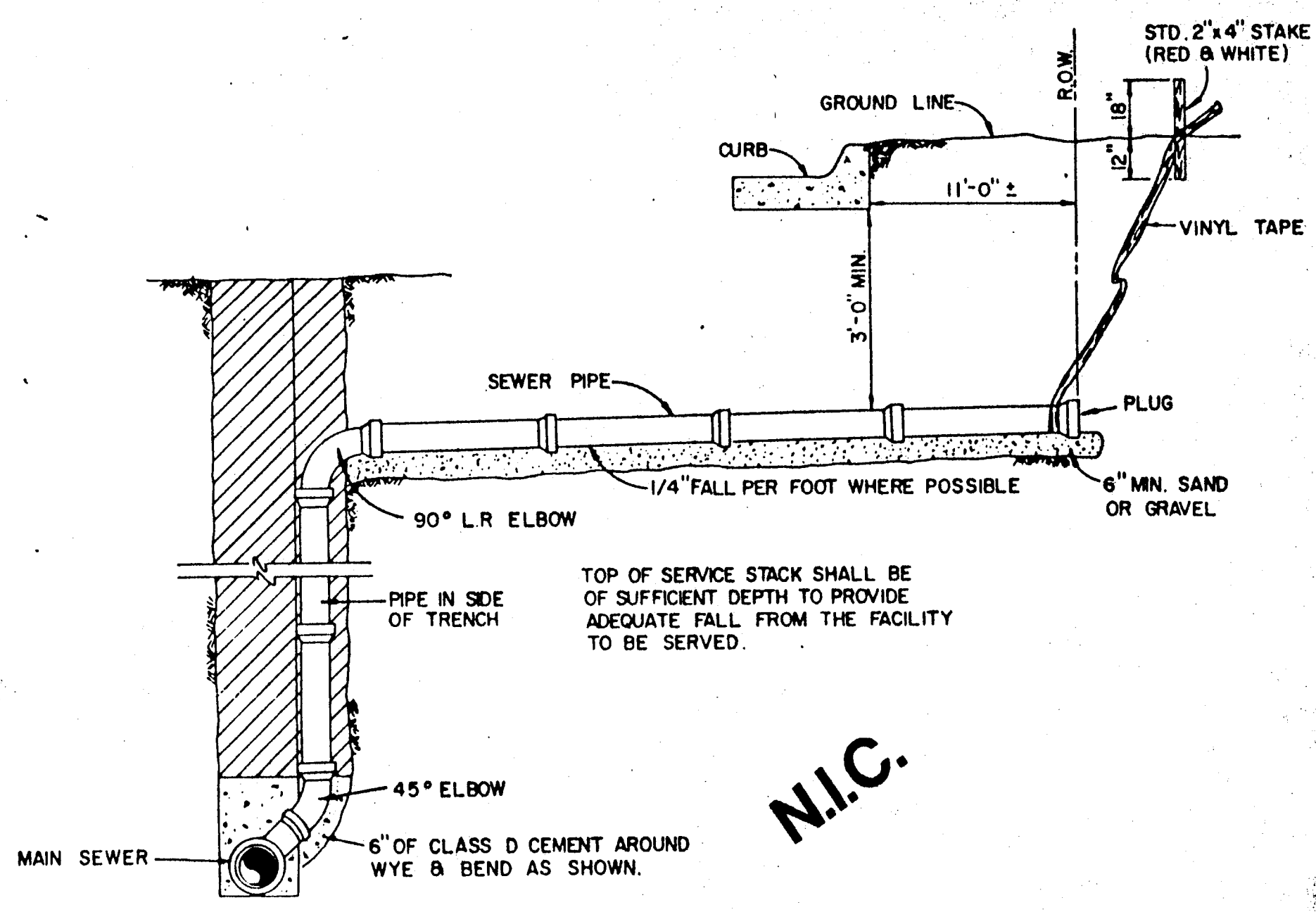
- DOUBLE STRAP BRONZE SADDLE W/CCW THREADS. MUELLER.
- CORPORATION STOP W/CCW THREADS. MUELLER. H-15008 COMPRESSION OR H-15000 FLARED.
- 3/4" TYPE "K" SOFT COPPER W/NO SPLICES
- ANGLE STOP W/LOCK WING. MUELLER. H-14258 COMPRESSION OR H-14255 FLARED.
- WATER METER BOX (RECTANGULAR SHAPE ONLY) CONCRETE OR METAL SHELL CONSTRUCTION
- WATER MAIN PVC AWWA C900 SDR 14/18 INTEGRAL WALL BELL



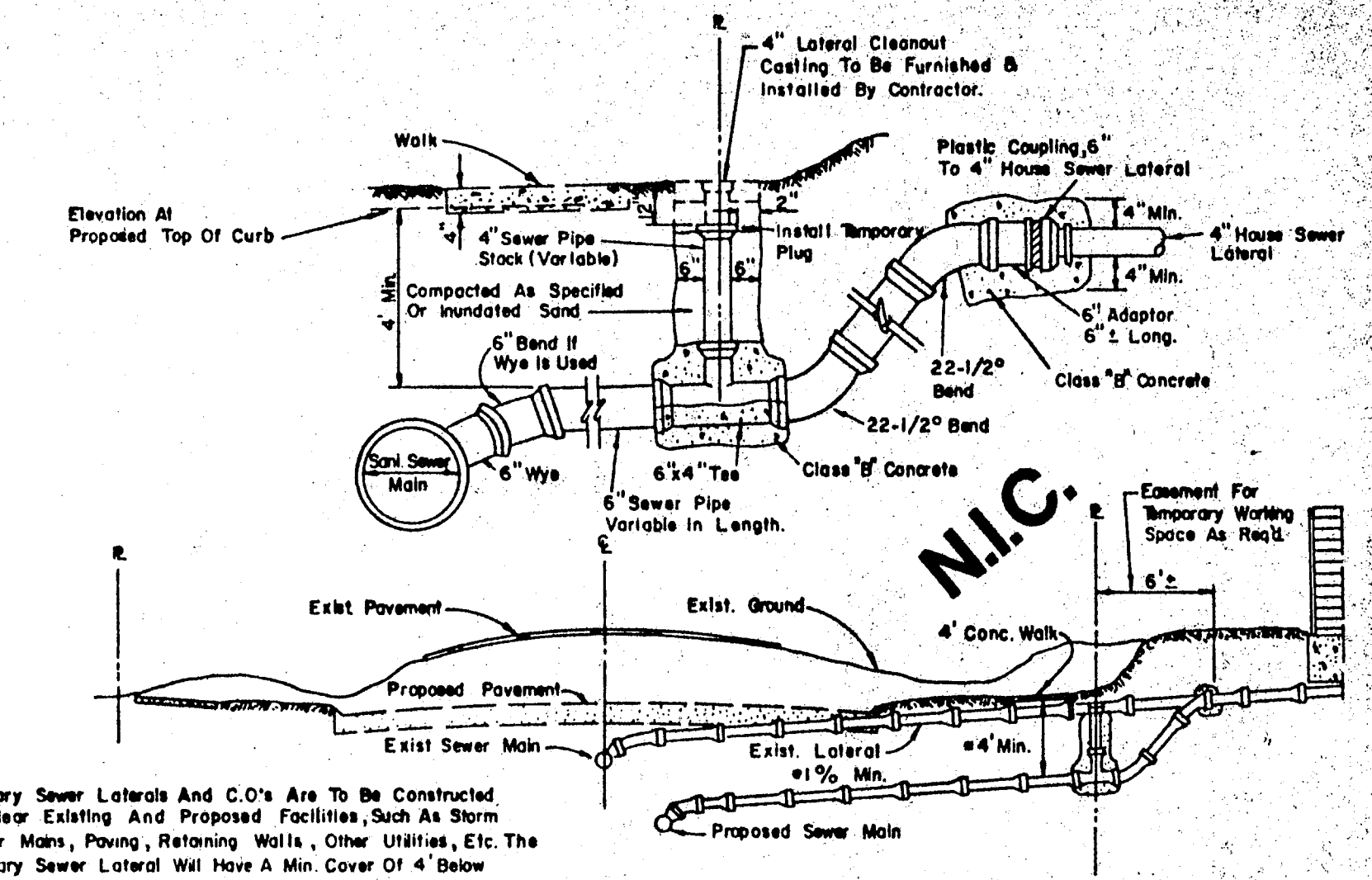
TOWN OF ADDISON, TEXAS			
DEPARTMENT OF ENGINEERING			
STANDARD CONSTRUCTION DETAILS			
WATER			
FIRE HYDRANTS, PULL BOXES AND VALVES			
Designed -	Drawn -	Date -	Job No.
Approved -	Checked -	Scale -	Sheet 16 of 19



SANITARY SEWER SERVICE CONNECTION

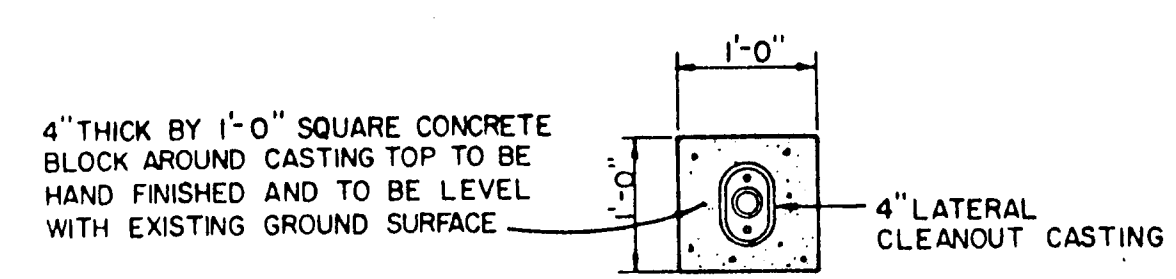


SANITARY SEWER DEEP SERVICE CONNECTION

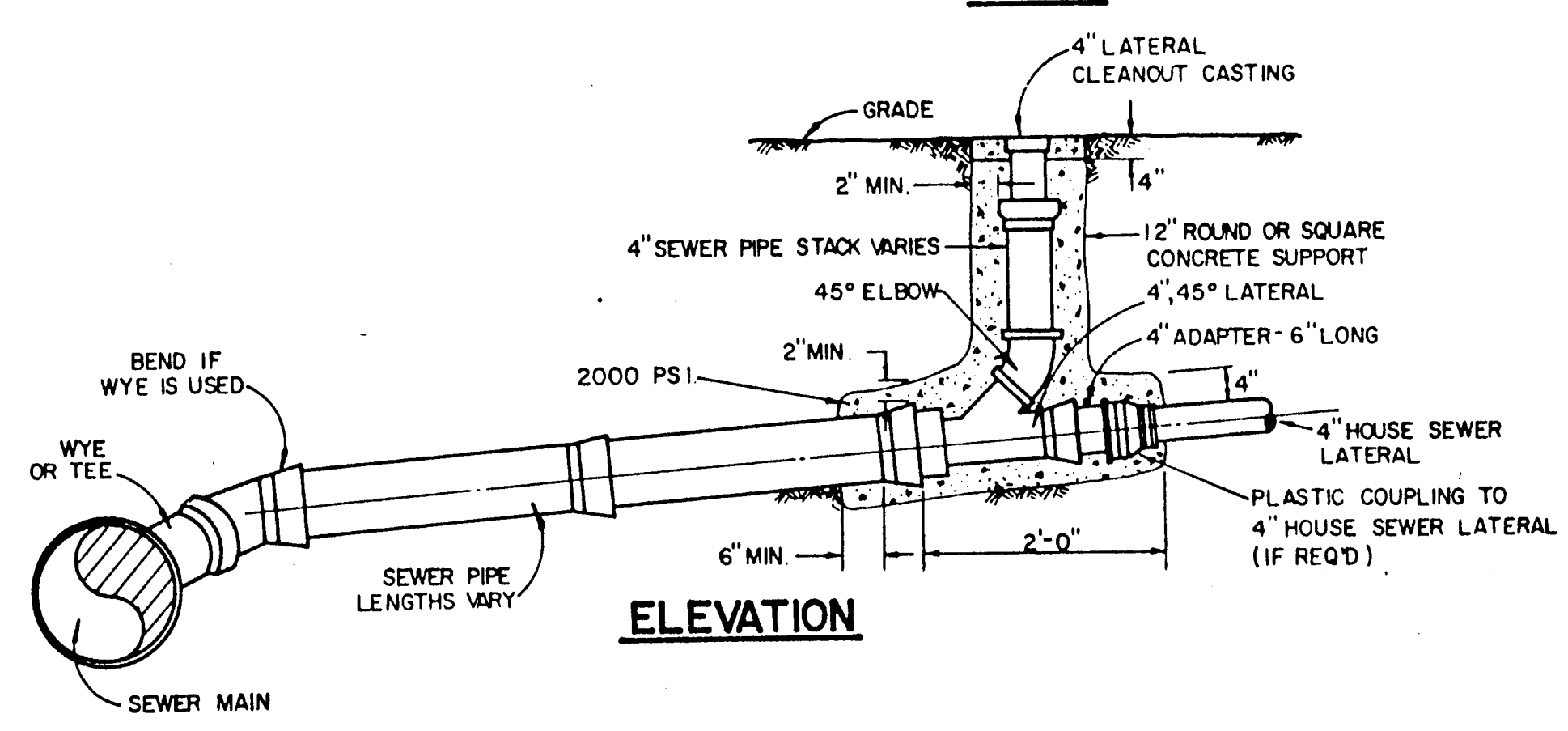


SANITARY SEWER LATERAL REPLACEMENT

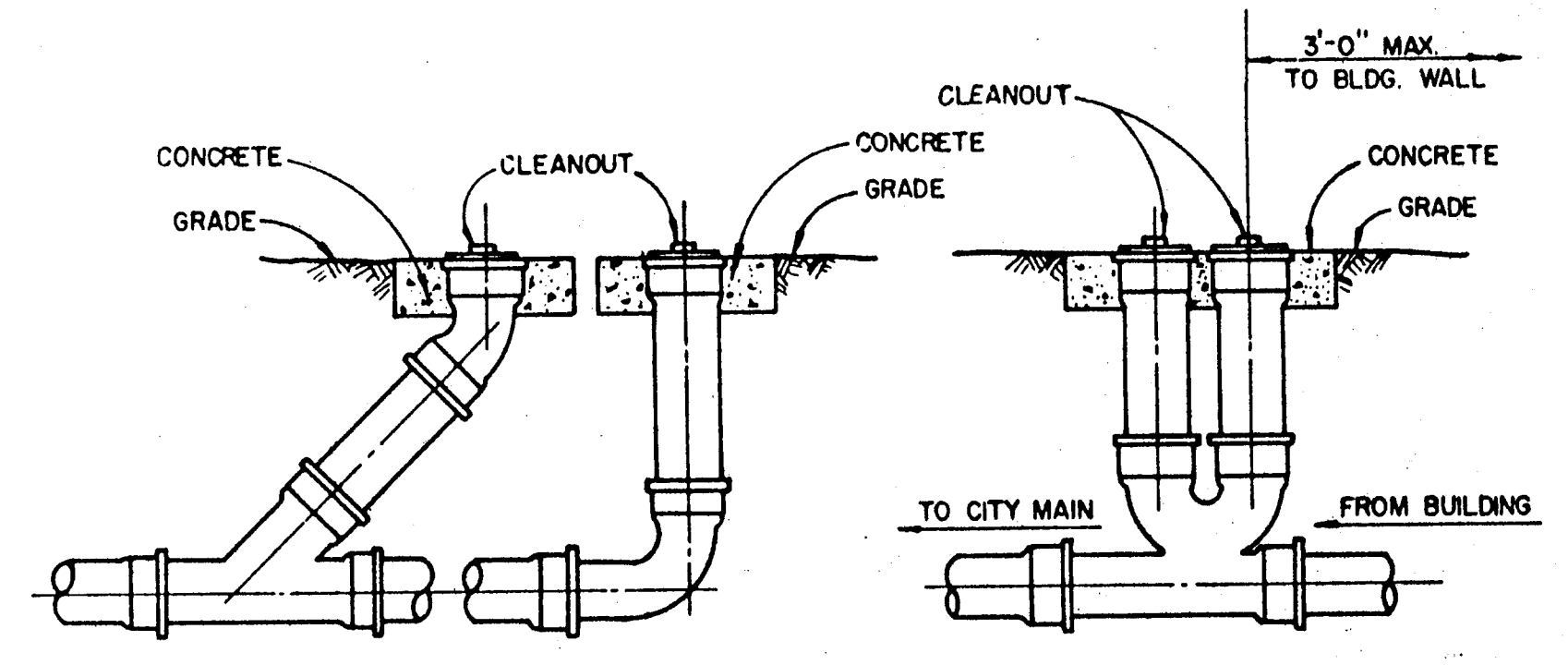
NOTE:
Cleanout To Be Installed On Property Line Except As Required To Avoid Conflict With Existing Or Proposed Facilities In Which Case The Location Shall Be Determined By The Engineer.



PLAN



ELEVATION



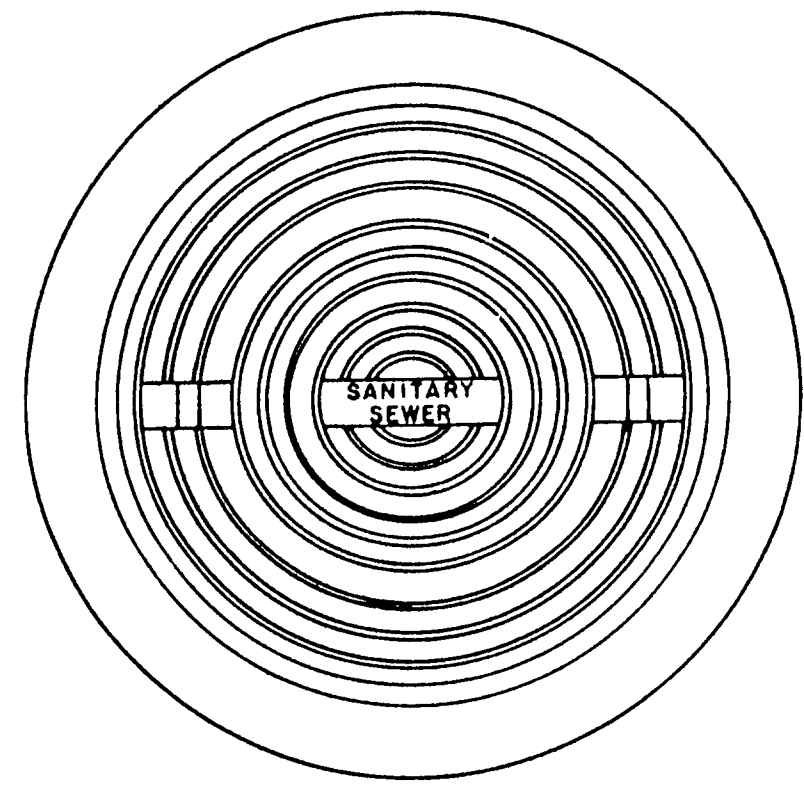
TYPICAL CLEANOUTS

ALL PVC SANITARY SEWER PIPE TO BE SDR 35 WITH INTEGRAL BELL. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD LOCATE HORIZONTALLY EACH 4' SERVICE IN RELATION TO THE SANITARY SEWER STATIONING. FIELD TIES ARE TO BE INCLUDED AND RECORDED ON ALUMINIZED SANITARY SEWER TAPE. THIS TAPE, GREEN OR RED IN COLOR IS TO BE ATTACHED TO THE 4' SERVICE AT THE ROW LINE AND BROUGHT TO THE SURFACE TO BE USED AS A PERMANENT MARKER.



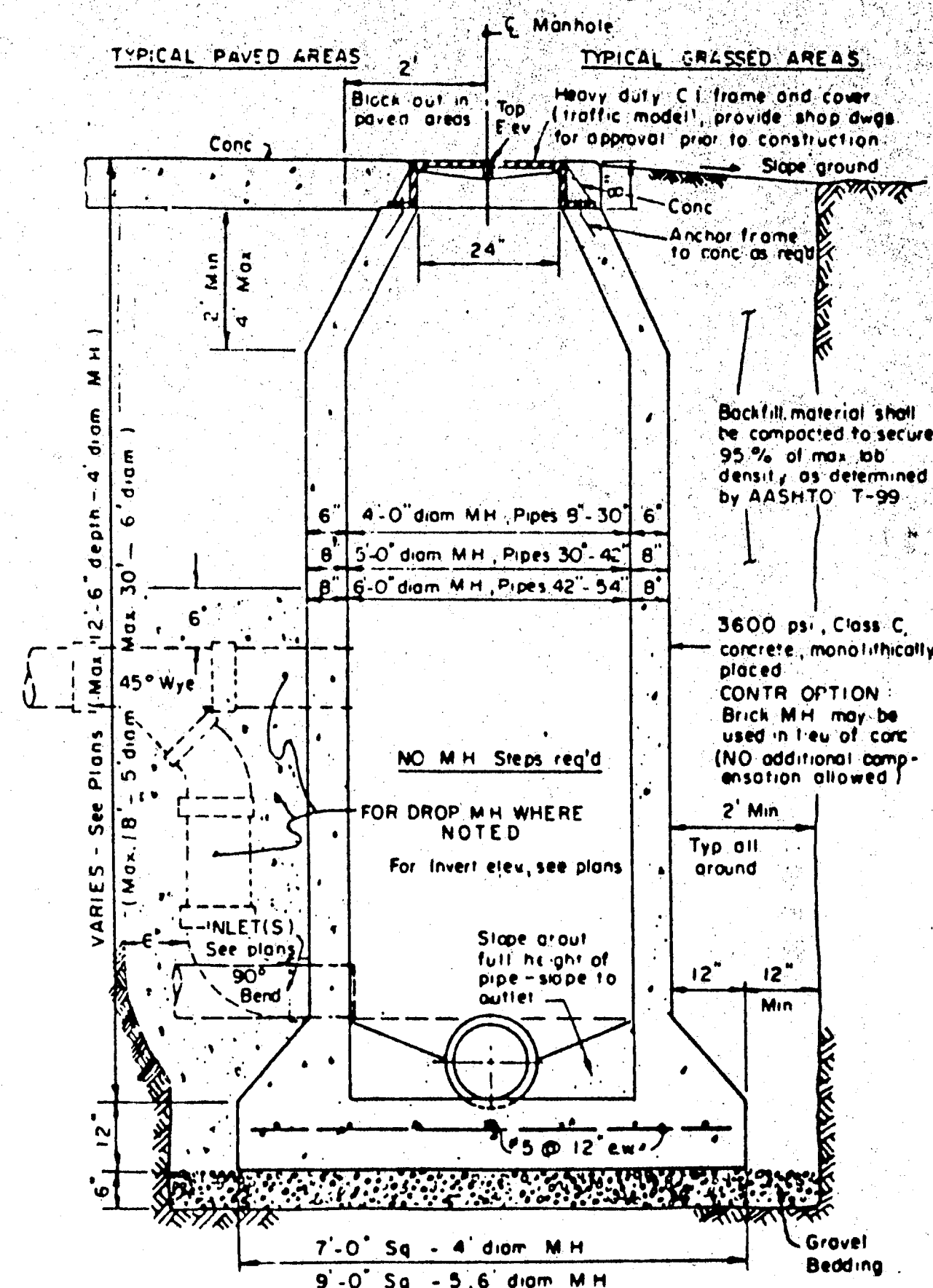
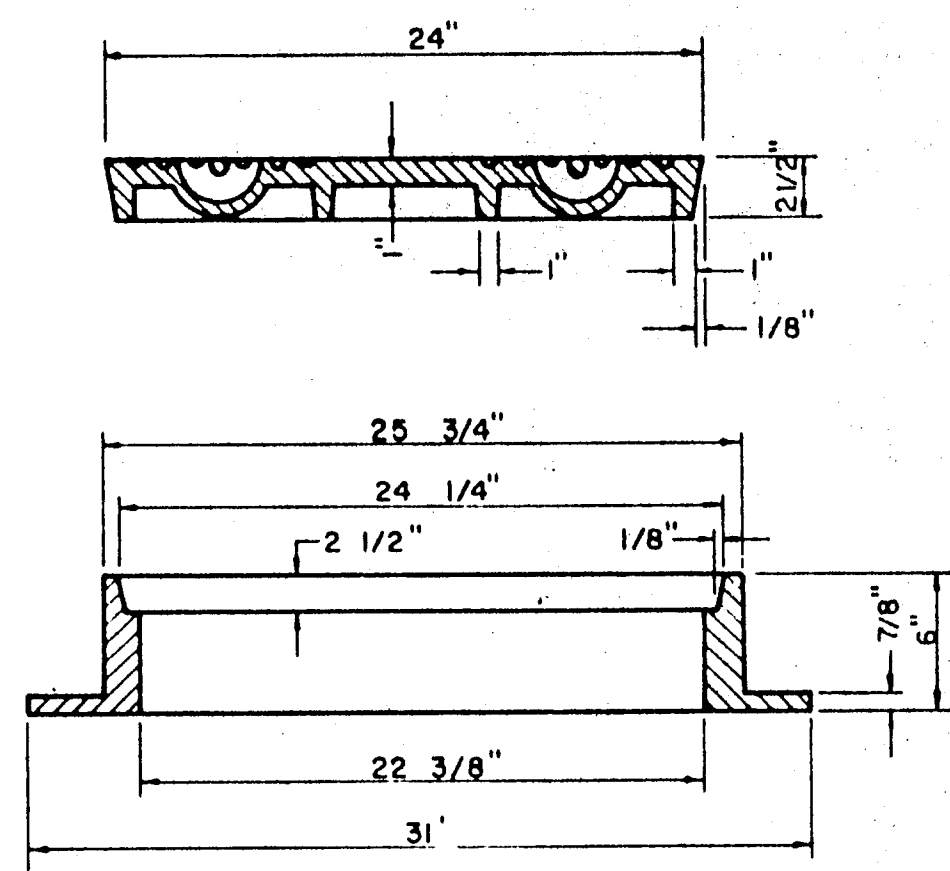
TOWN OF ADDISON, TEXAS
DEPARTMENT OF ENGINEERING
STANDARD CONSTRUCTION DETAILS
SANITARY SEWER
LATERALS AND CLEANOUTS

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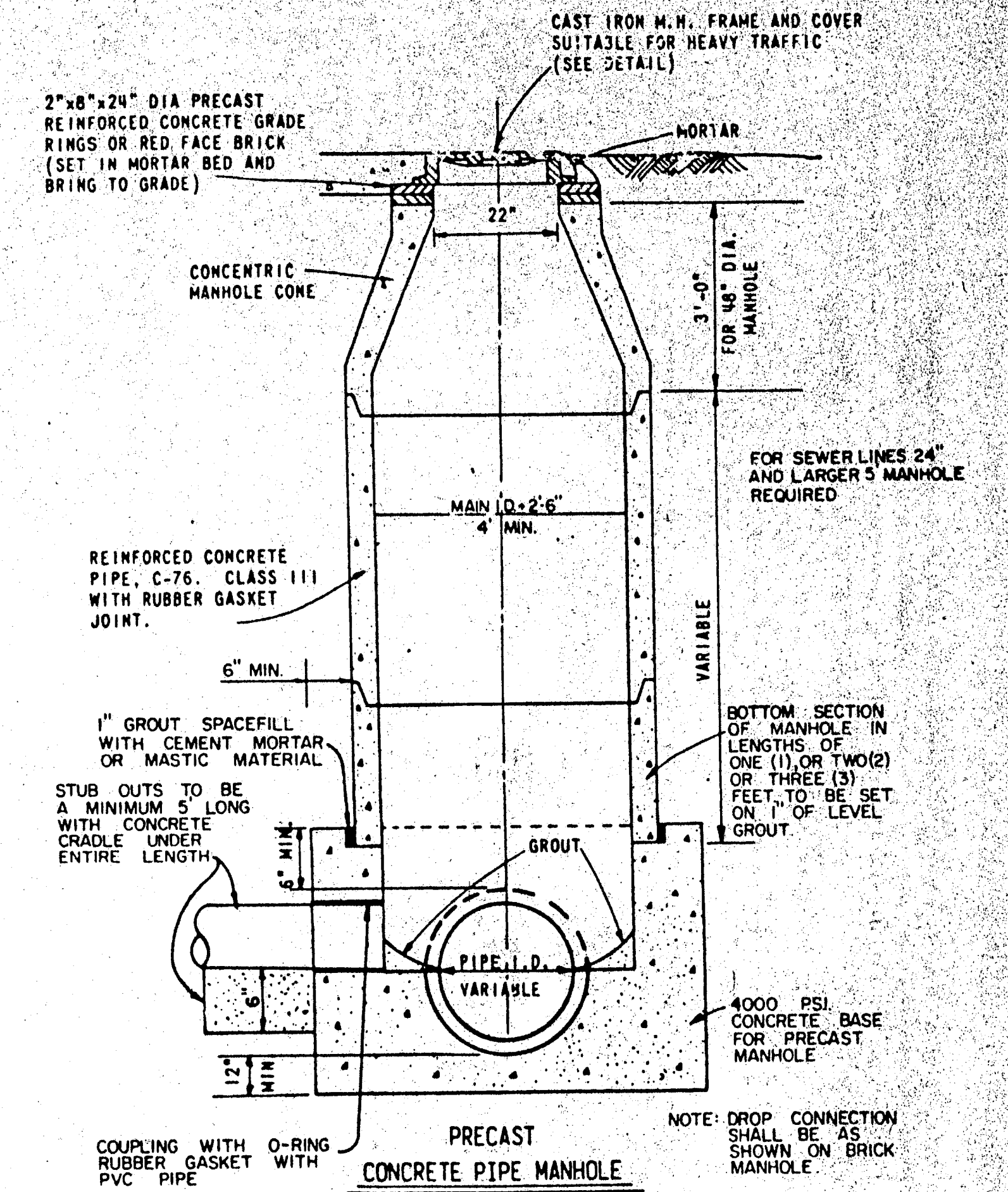
APPROX WEIGHT RING AND COVER 385 LBS.

CAST IRON GRATE AND FRAME DETAIL

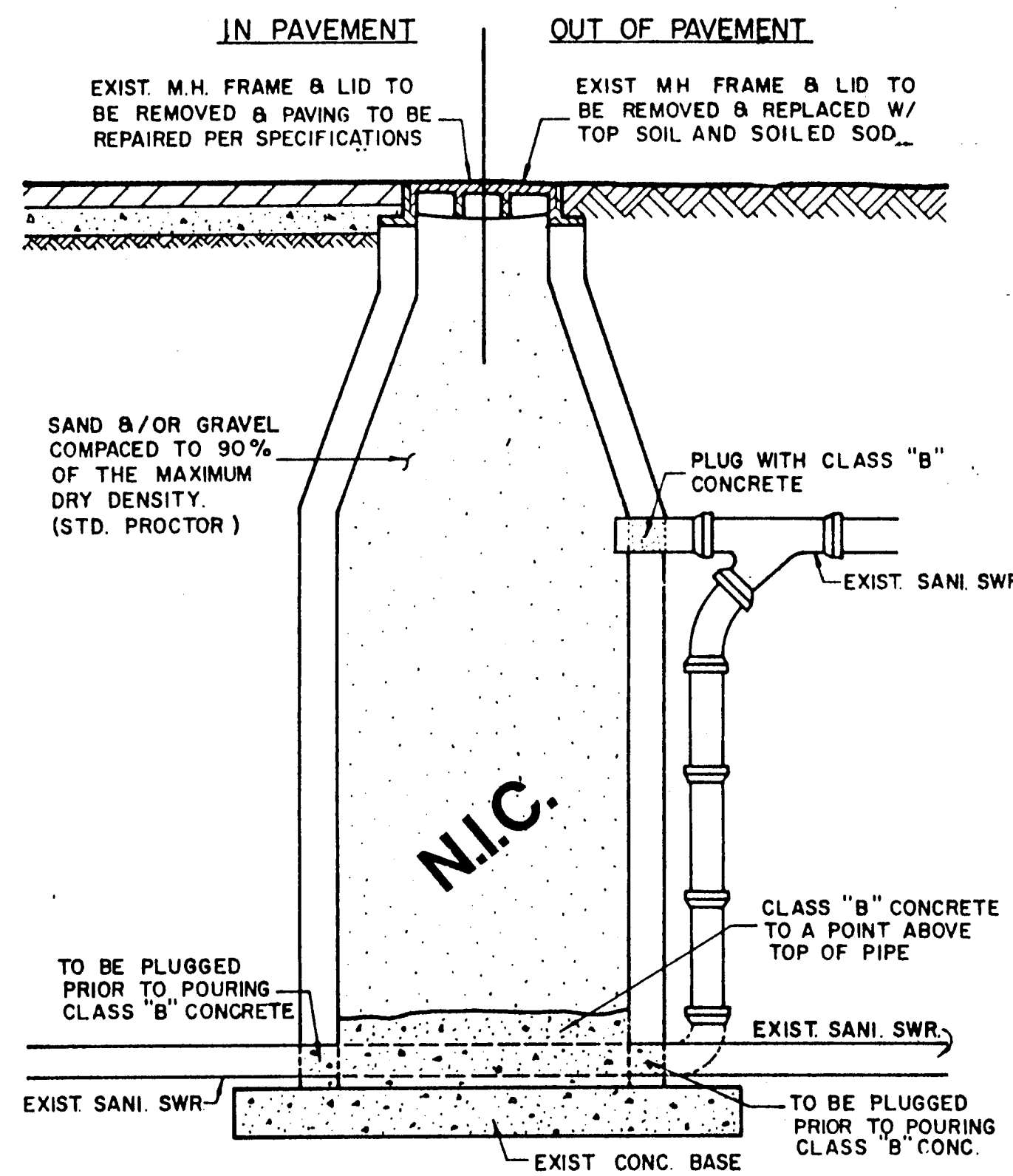


CAST IN PLACE MANHOLE

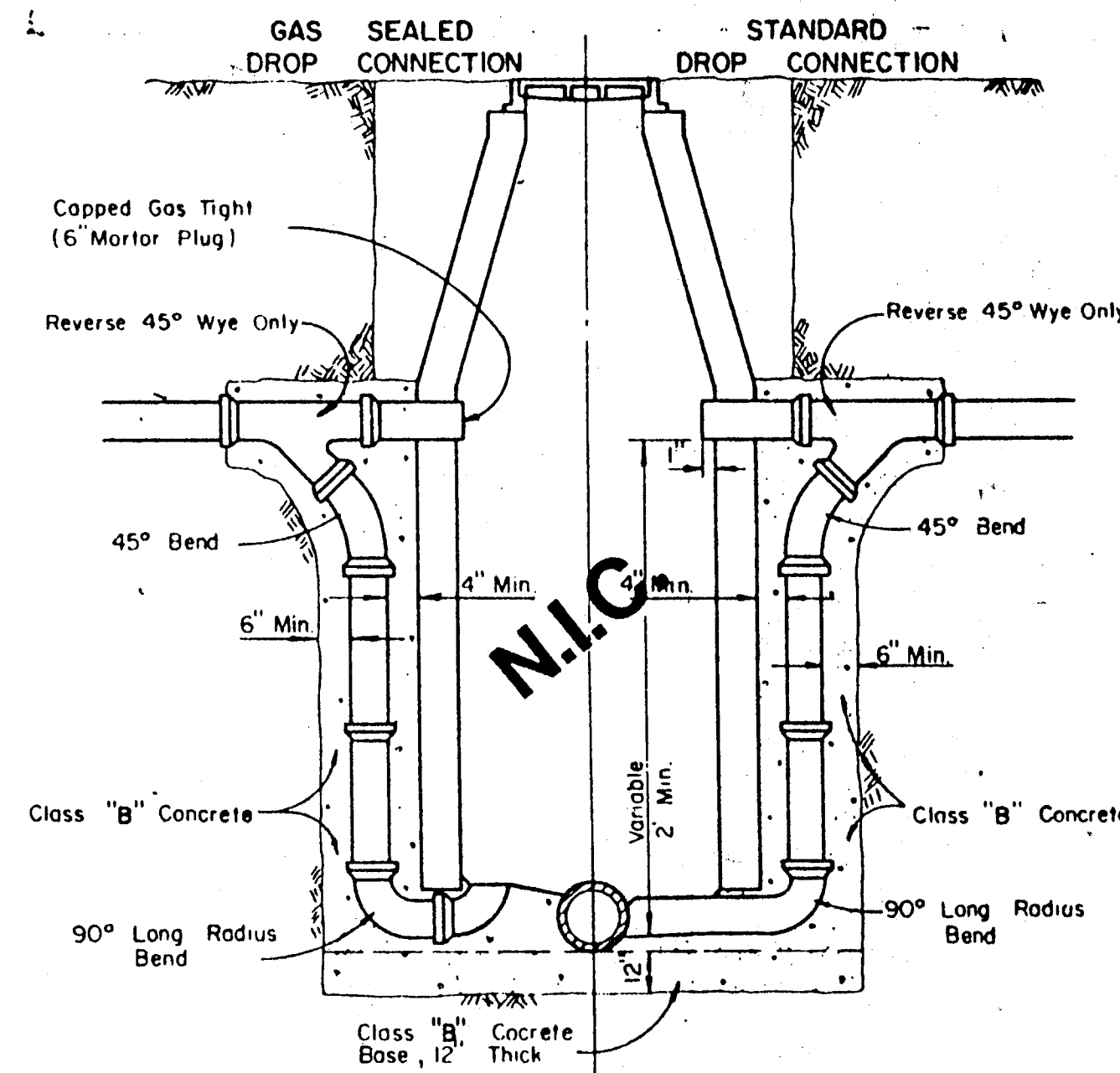
WHERE DROP M.H. IS REQUIRED, USE INSIDE DROP CONNECTION AS PER TOWN OF ADDISON STANDARDS.



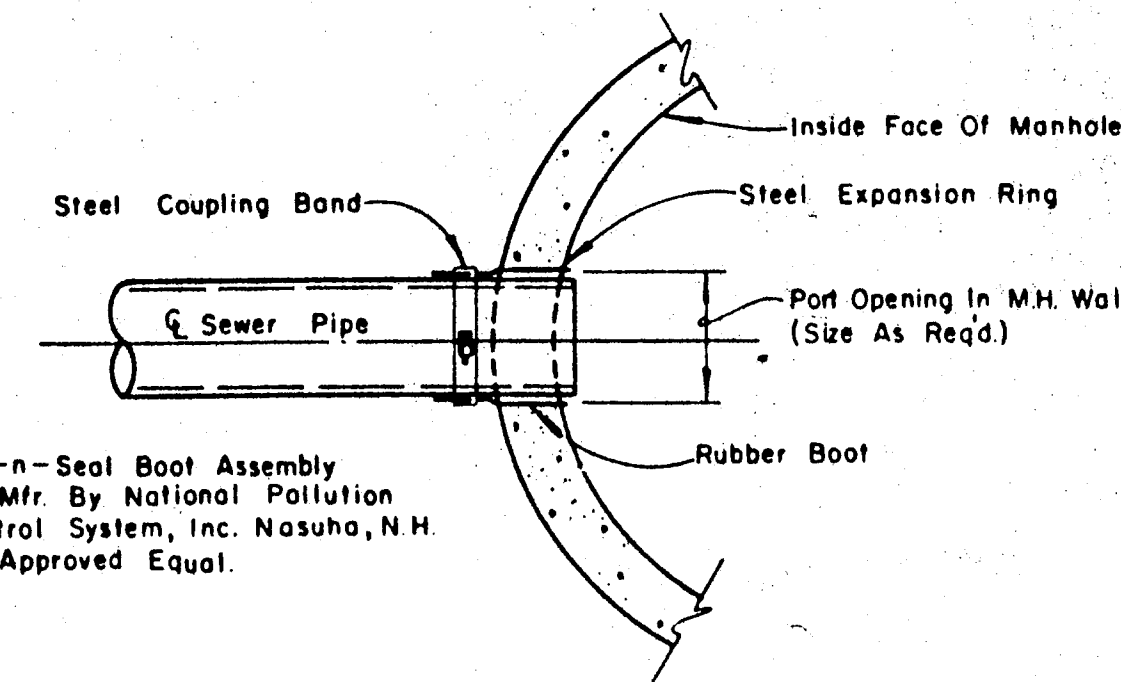
PRECAST MANHOLE



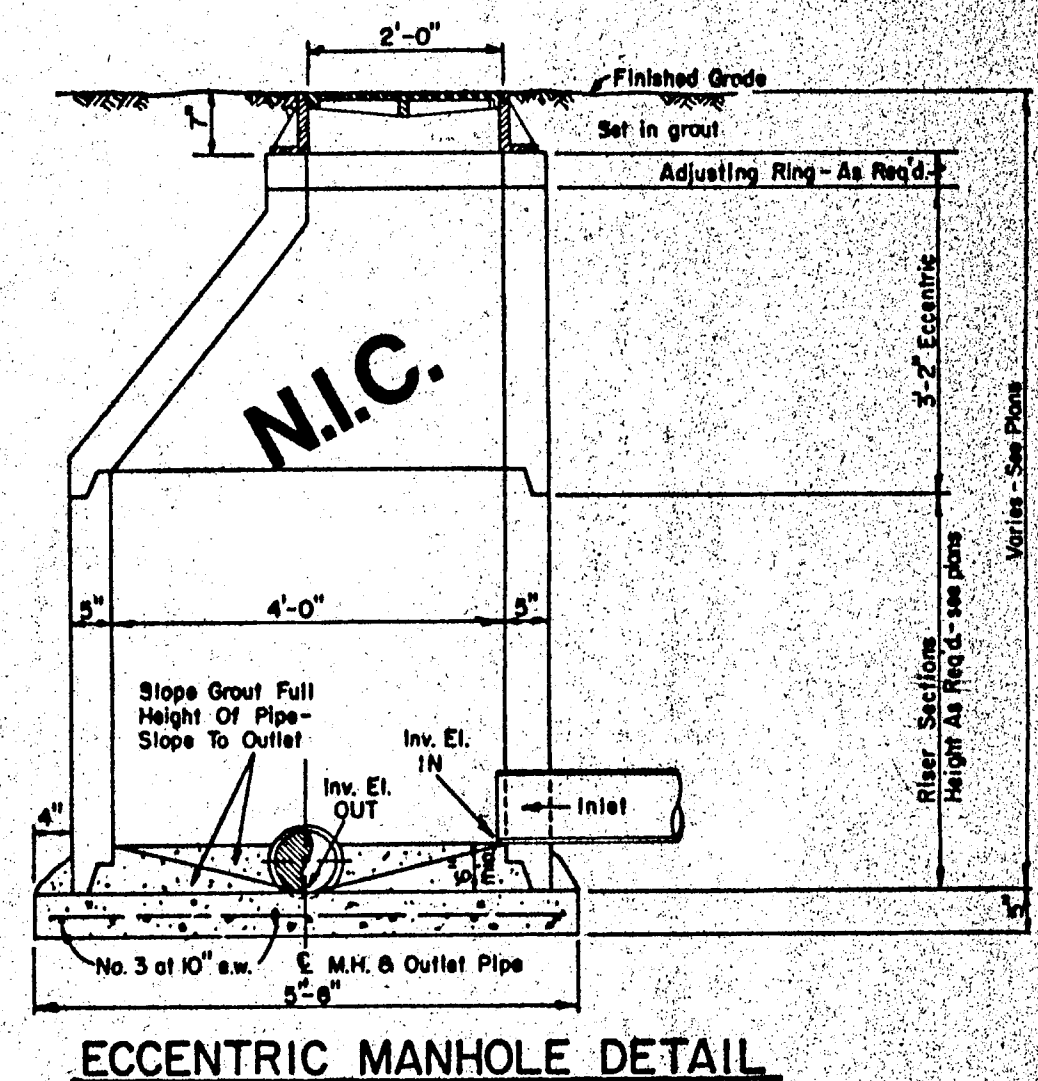
ABANDONMENT OF EXISTING MANHOLE IN AND OUT OF PAVEMENT



DROP CONNECTIONS FOR SANITARY SEWER MANHOLES



TYPICAL SEWER CONNECTION AT MANHOLE



ECCENTRIC MANHOLE DETAIL

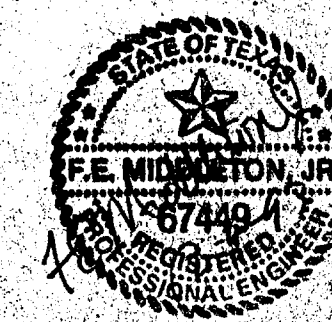
NOTE: Contractor To Install Kar-n-Seal Boot Assembly Per Mfr. Recommendations In A Near And Workman-Like Manner

CLASS B Conc. - 2000psi at 28 days (Compressive)

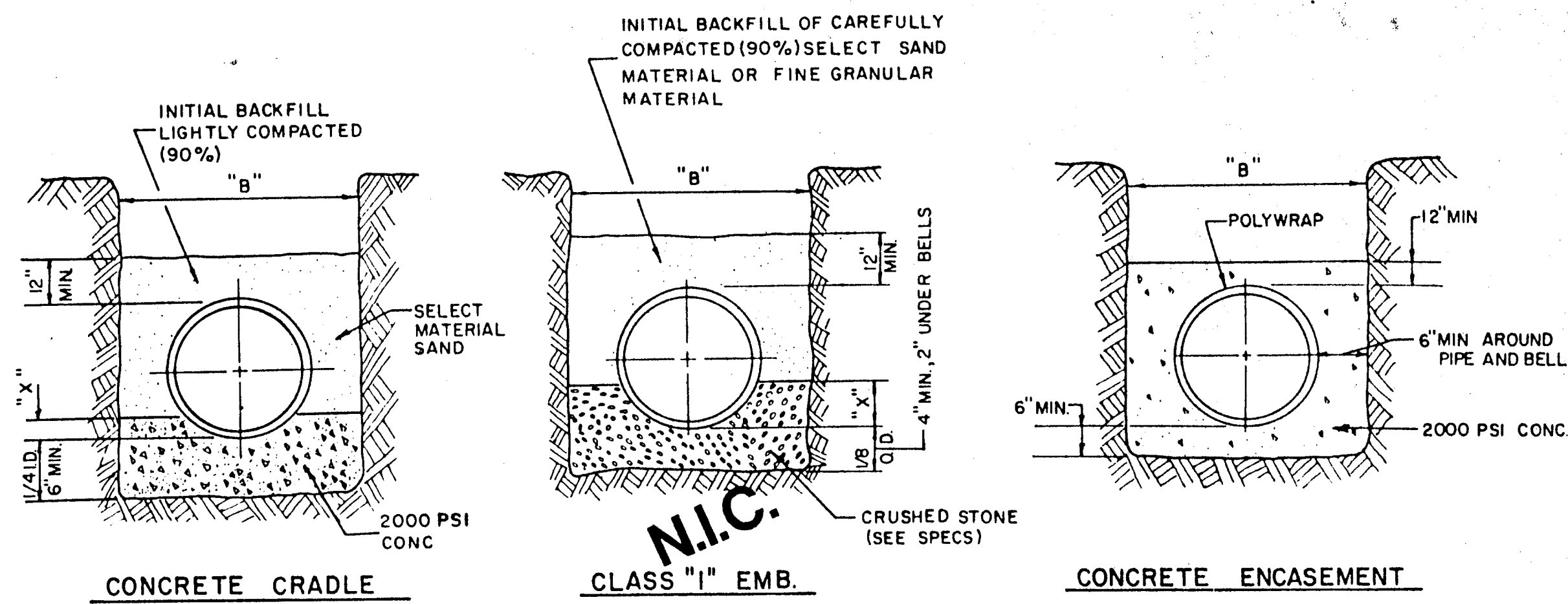
TOWN OF ADDISON, TEXAS
DEPARTMENT OF ENGINEERING

STANDARD CONSTRUCTION DETAILS
SANITARY SEWER

MANHOLES AND CONNECTIONS



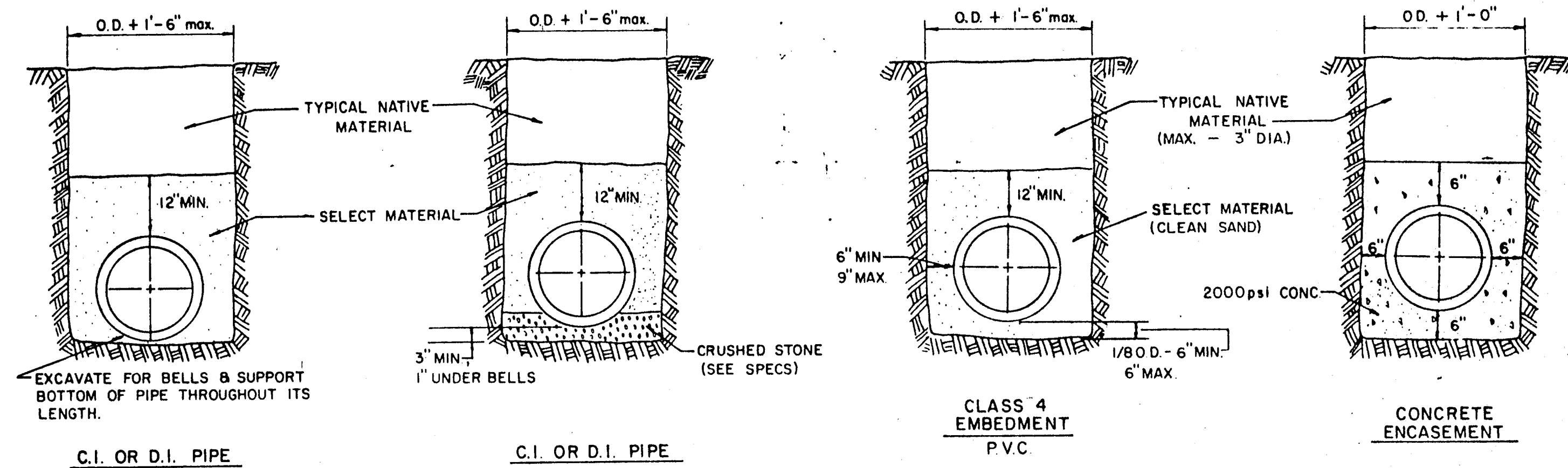
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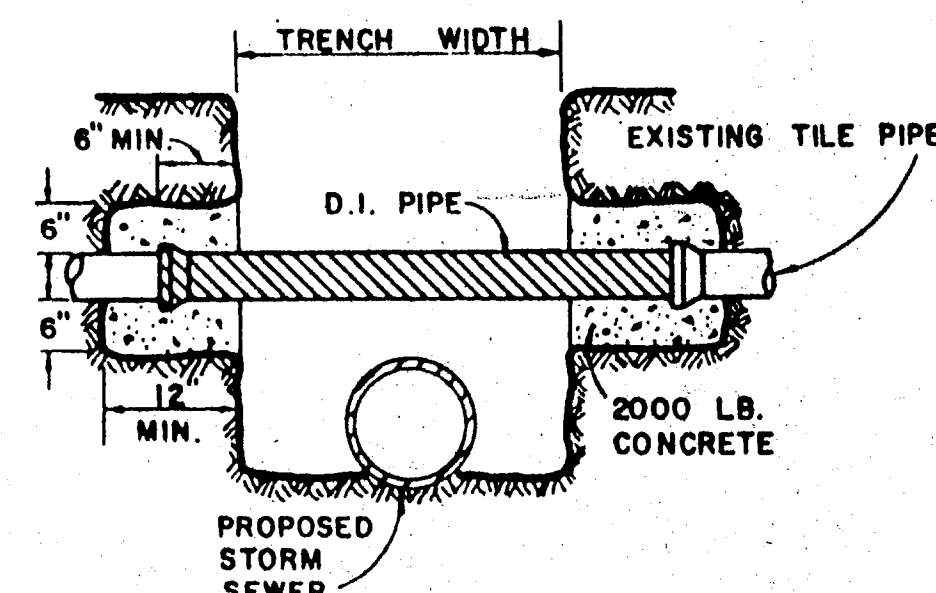
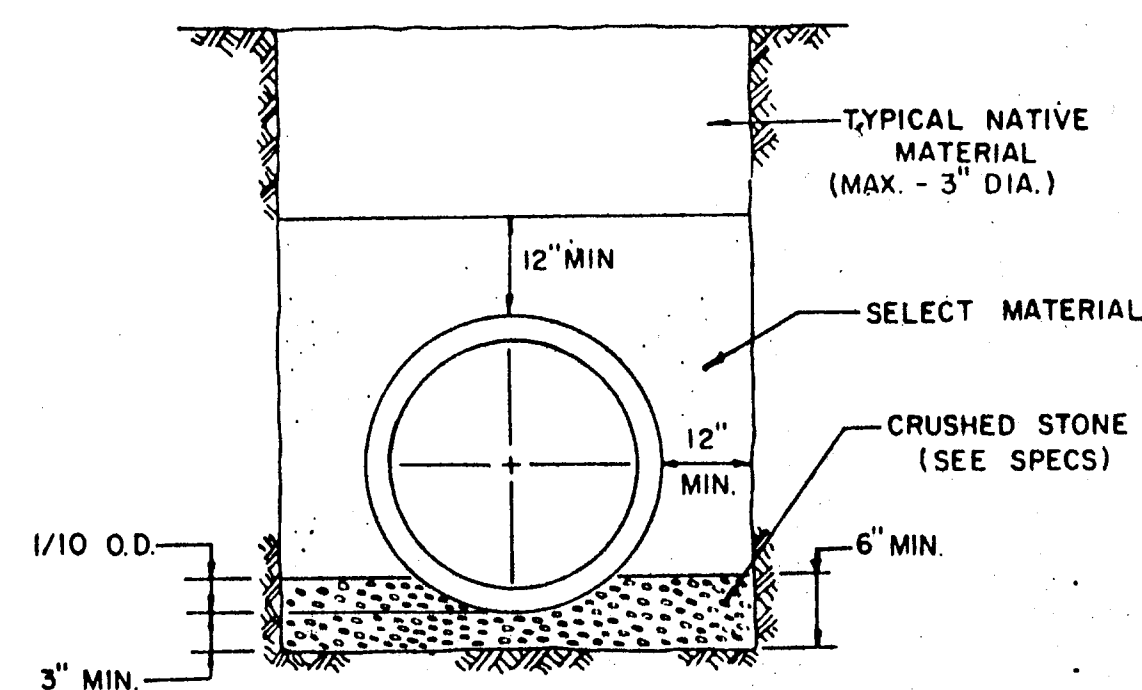
EMBEDMENT DETAILS FOR RCP WATERLINE

TABLE OF QUANTITIES OF MATERIALS IN CUBIC YARDS PER 100 LINEAR FEET

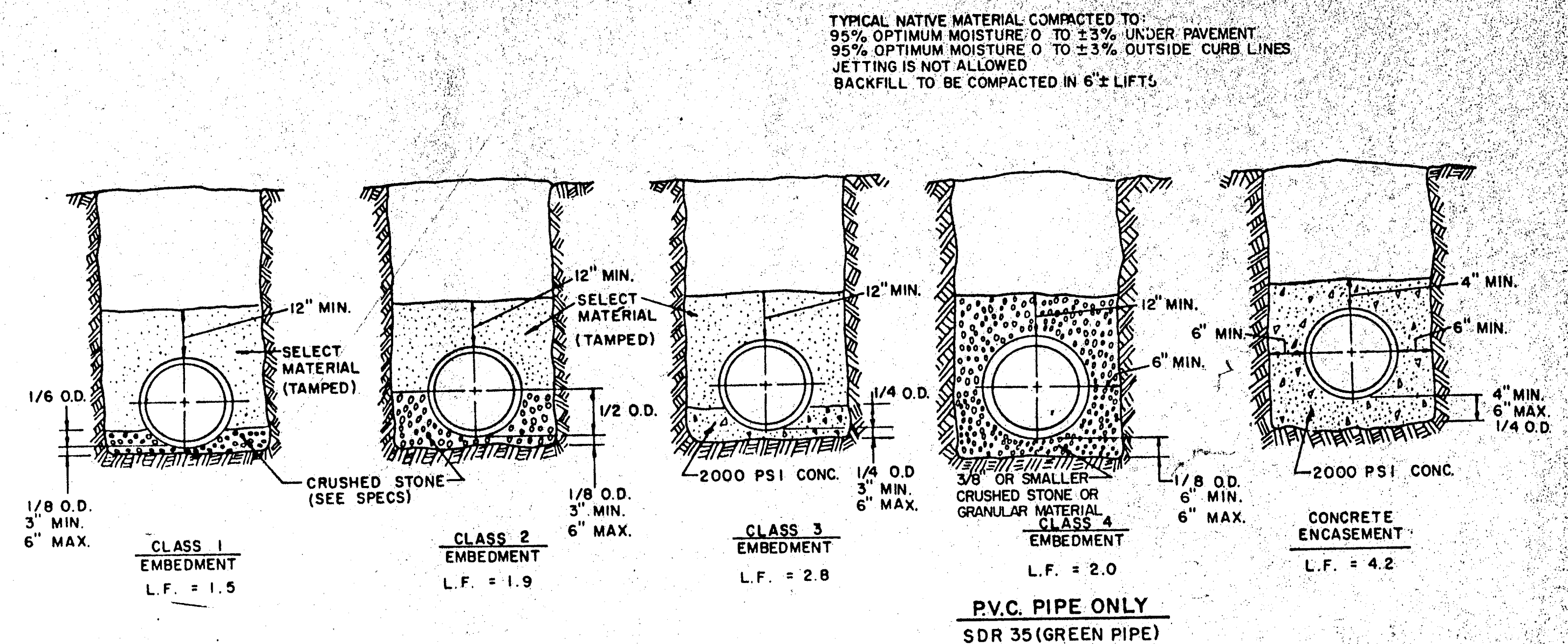
INSIDE DIAMETER OF PIPE	APPROX OUTSIDE DIAMETER OF PIPE	"X" IS A MINIMUM DEPTH	"B" TRENCH WIDTH FOR COMPUTATION OF QUANTITIES	CONCRETE		CRUSHED STONE FOR CLASS "1" EMBEDMENT
				FOR EMBEDMENT	FOR ENCASEMENT	
REINFORCED CONCRETE CYLINDER PIPE						
14"	17.25"	2.53'	34"	6.91	16.07	5.16
16"	19.38"	2.84'	36"	7.50	17.76	5.64
18"	21.78"	3.19'	38"	8.11	19.52	6.16
24"	27.75"	4.06'	44"	9.97	24.90	9.28



EMBEDMENT DETAILS FOR WATER MAIN



EMBEDMENT DETAIL FOR STORM SEWER



EMBEDMENT DETAILS FOR SANITARY SEWER

TABLE OF QUANTITIES OF 2000 PSI CONCRETE, GRAVEL OR CRUSHED STONE IN CUBIC YARDS PER 100 LINEAR FEET FOR EACH CLASS EMBEDMENT

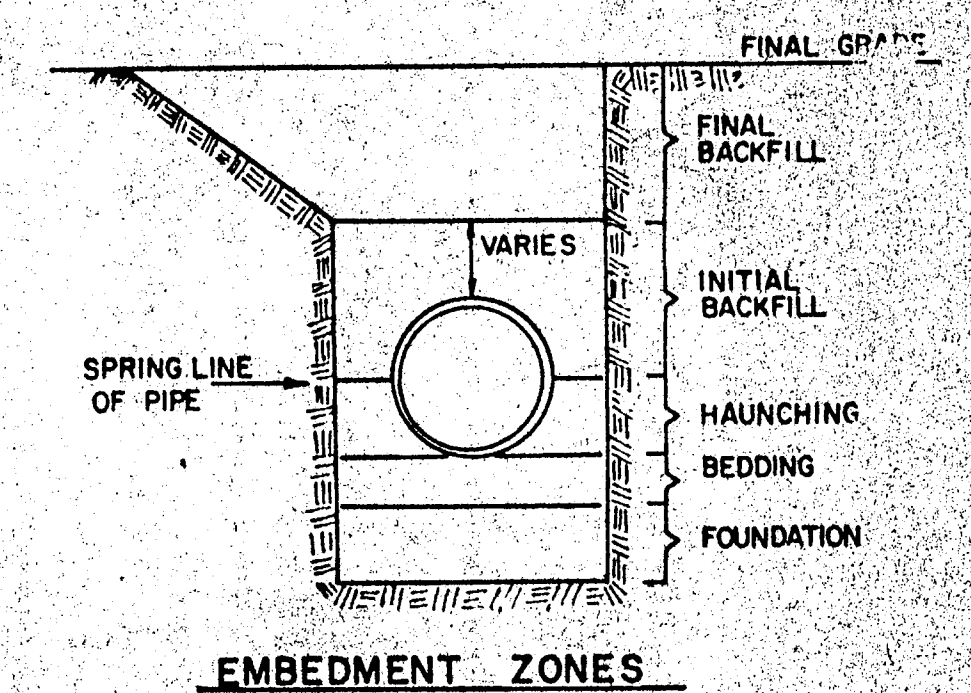
TABLE OF QUANTITIES PER 100 LINEAR FEET REINFORCED CONCRETE PIPE

SIZE OF PIPE IN INCHES I.D.	O.D. OF PIPE IN INCHES	TRENCH WIDTH IN INCHES	TRENCH WIDTH IN FEET	CLASS 1 EMBEDMENT CRUSHED STONE	CLASS 2 EMBEDMENT CRUSHED STONE	CLASS 3 EMBEDMENT CONCRETE	CONCRETE ENCASEMENT
12	16.00	32	2.67	4.1	6.5	4.8	15.8
15	19.50	36	3.00	4.8	7.8	6.4	19.2
18	23.00	39	3.25	5.7	9.2	8.2	21.2
21	26.50	43	3.58	6.9	11.0	10.2	24.9
24	30.00	46	3.83	8.3	13.1	12.4	28.7
27	33.50	51	4.25	10.3	16.1	14.4	32.8
30	37.00	57	4.75	12.7	20.1	17.0	34.8
33	40.50	62	5.17	15.1	23.8	19.3	39.2
36	44.00	67	5.58	18.0	28.6	22.1	43.8

TABLE OF QUANTITIES PER 100 LINEAR FEET-PVC PIPE (IN CUBIC YARDS)

SIZE OF PIPE IN INCHES	O.D. OF PIPE IN INCHES	TRENCH WIDTH IN INCHES	TRENCH WIDTH IN FEET	CLASS 4 EMBEDMENT CRUSHED STONE	CONCRETE ENCASEMENT
6	6.28	24	2.00	8.0	11.7
8	8.16	24	2.00	8.7	12.4
10	10.20	26	2.18	10.2	14.2
12	12.24	28	2.33	11.7	15.9
16	15.30	31	2.61	14.0	18.8
24		36	3.0		
30		42	3.5		

NOTE: ALL SANITARY SEWER LINES THIS PROJECT SHALL HAVE CLASS 4 EMBEDMENT UNLESS OTHERWISE NOTED.



TOWN OF ADDISON, TEXAS
DEPARTMENT OF ENGINEERING

STANDARD CONSTRUCTION DETAILS

EMBEDMENT DETAILS

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