

OWNER'S CERTIFICATE
WHEREAS PALOMAR PARTNERS, LTD., IS THE SOLE OWNER OF A TRACT OF LAND SITUATED IN THE TOWN OF ADDISON, DALLAS COUNTY, TEXAS AND BEING OUT OF THE THOMAS CHENOWETH SURVEY, ABSTRACT NO. 273, AND BEING ALL OF LOT 2R IN BLOCK A OF PRINTEMPS ADDITION NO. 2, AN ADDITION TO THE TOWN OF ADDISON, DALLAS COUNTY, TEXAS ACCORDING TO THE MAP THEREOF AS RECORDED IN VOLUME 92162 AT PAGE 2251, OF THE MAP RECORDS OF DALLAS COUNTY, TEXAS, AND A STREET R.O.W. QUIT CLAIMED BY THE TOWN OF ADDISON, AS RECORDED IN VOLUME 92205, PAGE 5407 OF THE DEED RECORDS OF DALLAS COUNTY, TEXAS AND BEING MORE PARTICULARLY DESCRIBED BY METES AND BOUNDS AS FOLLOWS:

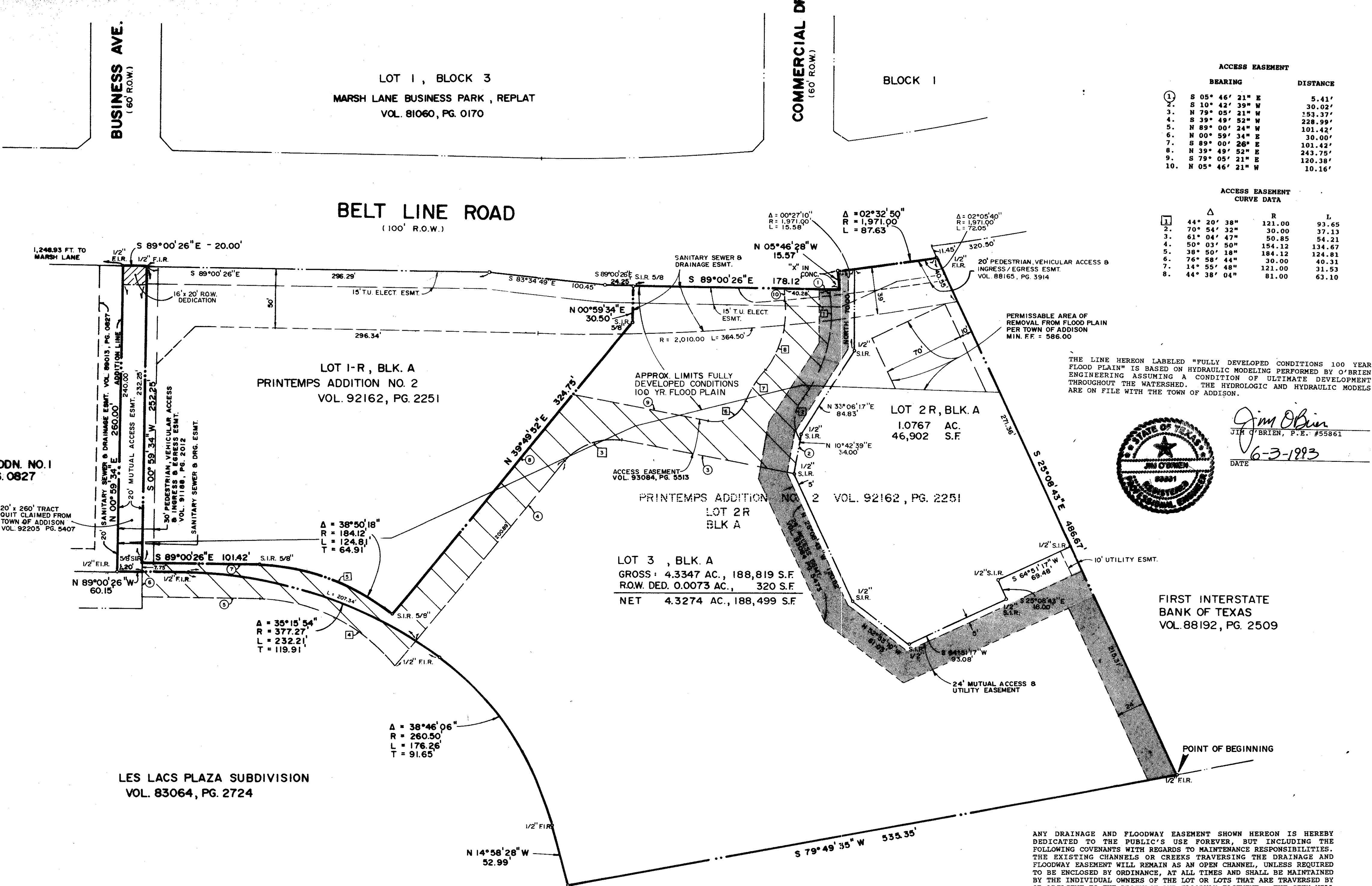
BEGINNING AT A 1/2" IRON ROD FOUND FOR THE SOUTHEAST CORNER OF SAID PRINTEMPS ADDITION NO. 2;
THENCE: S 79° 49' 35" W, A DISTANCE OF 535.35 FEET TO A 1/2" IRON ROD FOUND FOR THE MOST SOUTHERLY SOUTHWEST CORNER OF SAID PRINTEMPS ADDITION NO. 2;
THENCE: N 14° 58' 28" W, ALONG THE WESTERLY LINE OF SAID ADDITION A DISTANCE OF 52.99 FEET TO A 1/2" IRON ROD FOUND FOR CORNER AND THE BEGINNING OF A CURVE TO THE LEFT HAVING A CENTRAL ANGLE OF 38° 46' 06" AND A RADIUS OF 260.50 FEET;
THENCE: NORTHWESTERLY ALONG SAID ADDITION LINE AND SAID CURVE TO THE LEFT, AN ARC DISTANCE OF 176.26 FEET TO A 1/2" IRON ROD FOUND FOR CORNER AND THE BEGINNING OF A CURVE TO THE LEFT HAVING A CENTRAL ANGLE OF 35° 15' 54" AND A RADIUS OF 377.27 FEET WHOSE CENTER BEARS S 36° 15' 26" W;
THENCE: NORTHWESTERLY ALONG SAID ADDITION LINE AND SAID CURVE TO THE LEFT, AN ARC DISTANCE OF 232.21 FEET TO A 1/2" IRON ROD FOUND FOR CORNER FOR THE END OF SAID CURVE TO THE LEFT;
THENCE: N 89° 00' 26" W, CONTINUING ALONG SAID ADDITION LINE, A DISTANCE OF 60.15 FEET TO A 1/2" IRON ROD FOUND FOR THE MOST WESTERLY CORNER OF SAID 20 FOOT WIDE STRIP OF LAND QUIT CLAIMED FROM THE TOWN OF ADDISON;
THENCE: N 00° 59' 34" W, ALONG THE WESTERLY LINE OF SAID 20 FOOT WIDE STRIP OF LAND, A DISTANCE OF 260.00 FEET TO A 1/2" IRON ROD FOUND FOR THE NORTHWEST CORNER OF SAID 20 FOOT WIDE STRIP OF LAND;
THENCE: S 89° 00' 26" E, A DISTANCE OF 20.00 FEET TO A 1/2" IRON ROD FOUND FOR THE NORTHWEST CORNER OF LOT 1-R IN BLOCK A OF PRINTEMPS ADDITION NO. 2;
THENCE: S 00° 59' 34" W, A DISTANCE OF 252.25 FEET TO A 5/8" IRON ROD SET FOR CORNER SAID POINT BEING THE SOUTHWEST CORNER OF LOT 1-R;
THENCE: S 89° 00' 26" E, A DISTANCE OF 101.42 FEET TO A 5/8" IRON ROD SET FOR CORNER AND THE BEGINNING OF A CURVE TO THE RIGHT HAVING A CENTRAL ANGLE OF 38° 50' 18" AND A RADIUS OF 184.12 FEET WHOSE CENTER BEARS S 00° 59' 34" W;
THENCE: SOUTHEASTERLY ALONG SAID CURVE TO THE RIGHT AN ARC DISTANCE OF 124.81 FEET TO A 5/8" IRON ROD SET FOR CORNER FOR THE END OF SAID CURVE TO THE RIGHT SAID POINT BEING THE SOUTHEAST CORNER OF LOT 1-R;
THENCE: N 39° 49' 52" E, A DISTANCE OF 324.75 FEET TO A 5/8" IRON ROD SET FOR CORNER;
THENCE: N 00° 59' 34" E, A DISTANCE OF 10.50 FEET TO A 5/8" IRON ROD SET FOR CORNER SAID POINT BEING IN THE SOUTH LINE OF BELT LINE ROAD;
THENCE: S 89° 00' 26" E, ALONG THE SOUTH LINE OF BELT LINE ROAD A DISTANCE OF 178.12 FEET TO AN "X" SET IN CONCRETE FOR CORNER;
THENCE: N 05° 46' 28" W, A DISTANCE OF 15.57 FEET TO AN "X" SET IN CONCRETE FOR CORNER SAID POINT BEING THE BEGINNING OF A CURVE TO THE LEFT HAVING A CENTRAL ANGLE OF 32° 50' AND A RADIUS OF 1,971.00 FEET WHOSE CENTER BEARS N 06° 31' 49" W;
THENCE: ALONG SAID CURVE TO THE LEFT AN ARC DISTANCE OF 87.63 FEET TO A 1/2" IRON ROD SET FOR CORNER AT THE NORTHEAST CORNER OF LOT 2R;
THENCE: S 25° 08' 43" E, A DISTANCE OF 486.67 FEET TO THE PLACE OF BEGINNING AND CONTAINING 5.4114 ACRES (235,721 S.F.) OF LAND, MORE OR LESS.

ACCESS EASEMENT

| BEARING | DISTANCE |
|---------------------|----------|
| 1. S 05° 46' 21" E | 5.41' |
| 2. S 10° 42' 39" W | 30.02' |
| 3. N 79° 05' 21" W | 151.37' |
| 4. S 39° 49' 52" W | 228.99' |
| 5. N 89° 00' 26" W | 101.42' |
| 6. N 00° 59' 34" W | 30.00' |
| 7. S 89° 00' 26" E | 101.42' |
| 8. N 39° 49' 52" E | 243.75' |
| 9. S 78° 05' 21" E | 120.38' |
| 10. N 05° 46' 21" W | 10.16' |

ACCESS EASEMENT CURVE DATA

| Δ | R | L |
|----------------|--------|--------|
| 1. 44° 20' 38" | 121.00 | 93.65 |
| 2. 70° 54' 32" | 30.00 | 37.13 |
| 3. 81° 04' 47" | 50.85 | 54.21 |
| 4. 50° 03' 50" | 154.12 | 134.67 |
| 5. 38° 50' 18" | 184.12 | 174.81 |
| 6. 76° 58' 44" | 30.00 | 40.31 |
| 7. 55° 48' 18" | 121.00 | 31.53 |
| 8. 44° 38' 04" | 81.00 | 63.10 |



Jim O'Brien, P.E. #55861
DATE 6-3-1993

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.
WITNESS MY HAND AT DALLAS, TEXAS, THIS THE 3RD DAY OF JUNE 1993.

John Rebersdorf
PALOMAR PARTNERS, LTD.
BY: HFI MANAGEMENT CO., GENERAL PARTNER
JOHN REBERSDORF, PRESIDENT

STATE OF TEXAS
COUNTY OF DALLAS
BEFORE ME, THE UNDERSIGNED AUTHORITY, ON THIS DAY PERSONALLY APPEARED JOHN REBERSDORF, KNOWN TO ME TO BE THE PERSON WHOSE NAME IS SUBSCRIBED TO THE ABOVE AND FOREGOING INSTRUMENT, AND ACKNOWLEDGED TO ME THAT HE EXECUTED THE SAME FOR THE PURPOSES AND CONSIDERATION EXPRESSED AND IN THE CAPACITY THEREIN STATED.
GIVEN UNDER MY HAND AND SEAL OF OFFICE ON THIS THE 3rd DAY OF June, 1993.

NOTARY PUBLIC IN AND FOR THE STATE OF TEXAS

THIS PLAT HAS BEEN APPROVED BY THE PLANNING AND ZONING COMMISSION ON THIS THE 25th DAY OF FEBRUARY, 1993.

Joan Kelly
CHAIRMAN
PLANNING AND ZONING COMMISSION

THIS PLAT HAS BEEN APPROVED BY THE CITY COUNCIL ON THIS THE 3rd DAY OF JUNE, 1993.
C. MORAN
MAYOR
CITY SECRETARY

STATE OF TEXAS
COUNTY OF DALLAS

KNOW ALL MEN BY THESE PRESENTS
THAT I, LAWRENCE A. CATES, DO HEREBY CERTIFY THAT I HAVE PREPARED THIS PLAT FROM AN ACTUAL SURVEY OF THE LAND, AND THAT THE CORNER MONUMENTS SHOWN THEREON WERE PLACED AS DEFINED BY THE FIELD NOTES FOR SAID TRACT IN ACCORDANCE WITH THE PLATTING RULES AND REGULATIONS OF THE CITY OF FORT WORTH, TARRANT COUNTY, TEXAS.

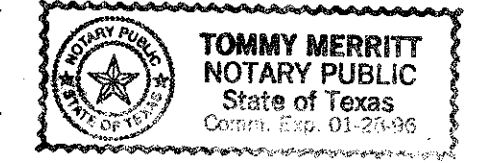
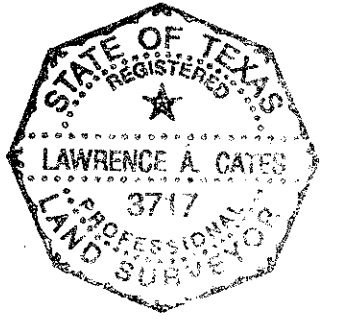
Lawrence A. Cates, P.E.
REGISTERED PROFESSIONAL LAND SURVEYOR NO. 3717

STATE OF TEXAS
COUNTY OF DALLAS

BEFORE ME, THE UNDERSIGNED AUTHORITY, ON THIS DAY PERSONALLY APPEARED LAWRENCE A. CATES, KNOWN TO ME TO BE THE PERSON WHOSE NAME IS SUBSCRIBED TO THE ABOVE AND FOREGOING INSTRUMENT, AND ACKNOWLEDGED TO ME THAT HE EXECUTED THE SAME FOR THE PURPOSES AND CONSIDERATION EXPRESSED AND IN THE CAPACITY THEREIN STATED.

GIVEN UNDER MY HAND AND SEAL OF OFFICE ON THIS THE 3rd DAY OF June, 1993.

Tommy Merritt
NOTARY PUBLIC IN AND FOR THE STATE OF TEXAS EXPIRATION



5/16/94
This belongs to Town of Addison
Building Inspection Dept.

THAT PALOMAR PARTNERS, LTD. ("OWNER") DOES HEREBY ADOPT THIS PLAT DESIGNATING THE HEREINAFORE PROPERTY AS LOTS 2R & 3, BLOCK A, PRINTEMPS ADDITION NO. 2, 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.

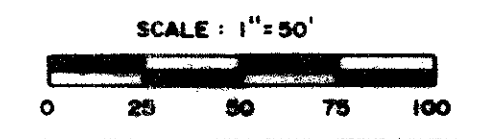
THE EASEMENTS SHOWN ON THIS PLAT ARE HEREBY RESERVED FOR THE PURPOSES AS INDICATED, INCLUDING, BUT NOT LIMITED TO, THE INSTALLATION AND MAINTENANCE OF WATER, SANITARY SEWER, STORM SEWER, DRAINAGE, ELECTRIC, TELEPHONE, GAS AND CABLE TELEVISION. OWNER SHALL HAVE THE RIGHT TO USE THESE EASEMENTS, PROVIDED 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.

FINAL PLAT
LOT 2R & LOT 3, BLOCK A
PRINTEMPS ADDITION NO. 2
A REPLAT OF PART OF
PRINTEMPS ADDITION NO. 2
THOMAS L. CHENOWETH SURVEY ABST. 273
TOWN OF ADDISON
DALLAS COUNTY, TEXAS

OWNER: PALOMAR PARTNERS, LTD.
8235 DOUGLAS STE 1300
DALLAS, TEXAS 75225
(214) 360-9600

ENGINEER / SURVEYOR: LAWRENCE A. CATES & ASSOC.
14200 MIDWAY SUITE 122
DALLAS, TEXAS 75244
(214) 385-2272

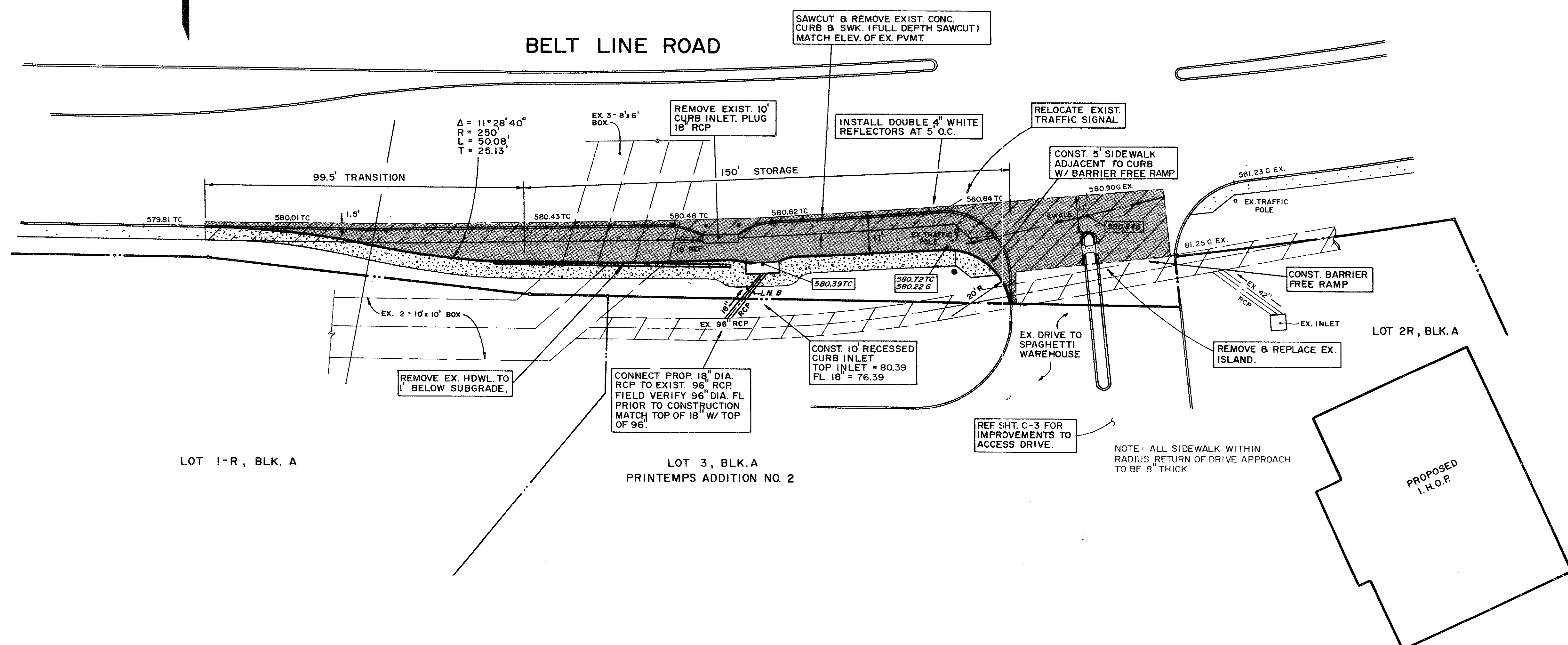
JAN 26, 1993





COMMERCIAL DRIVE

BELT LINE ROAD



- GENERAL NOTES
1. ALL CURBS TO BE PLACED INTEGRAL WITH PAVEMENT AND SHALL MEET THE SAME COMPRESSIVE STRENGTH AS THE PROPOSED CONCRETE PAVEMENT.
 2. ARRANGEMENT OF JOINTS SHALL MATCH JOINTS IN EXISTING PAVEMENT.
 3. ALL BAR LAPS SHALL BE 30\"/>

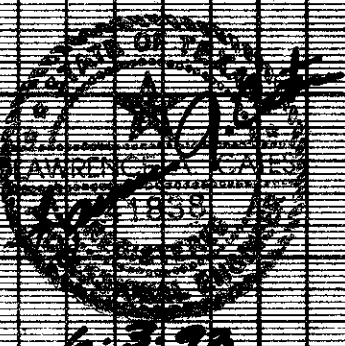
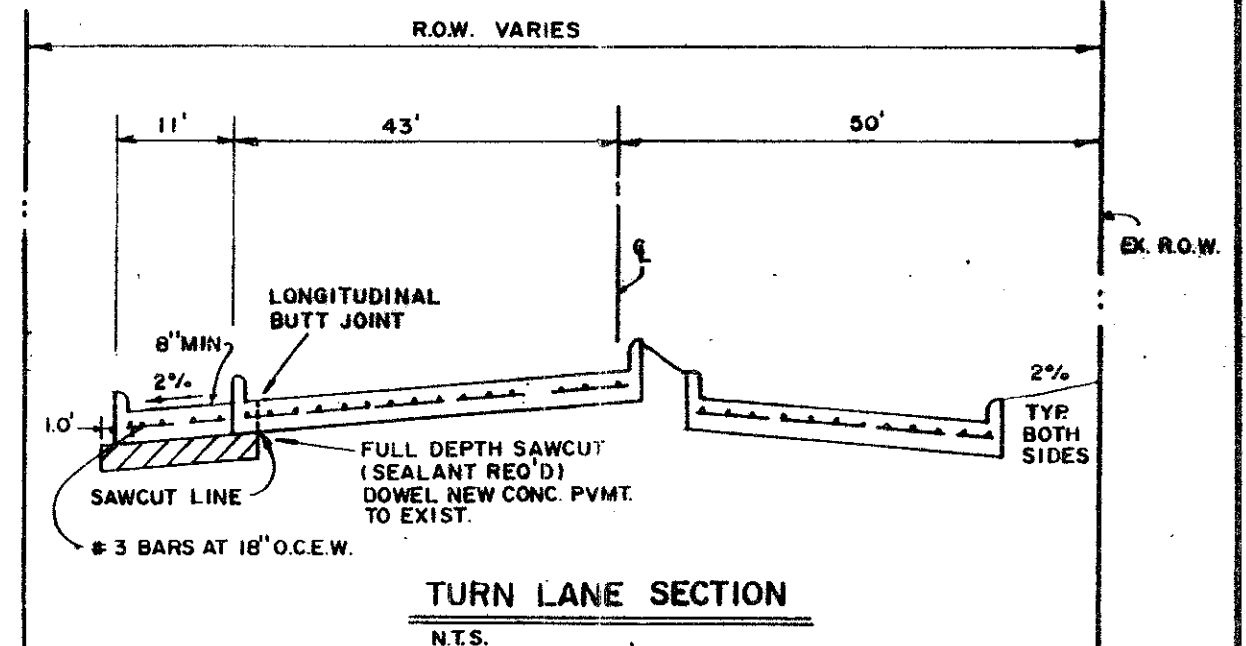
LOT 1-R, BLK. A

LOT 3, BLK. A
PRINTEMPS ADDITION NO. 2

LOT 2R, BLK. A

PROPOSED I.H.O.P.

BENCHMARK:
 "□" CUT ON STORM SEWER INLET ON
 SOUTH SIDE OF BELT LINE ROAD 70'±
 WEST OF COMMERCIAL DRIVE.
 ELEV. 580.56'

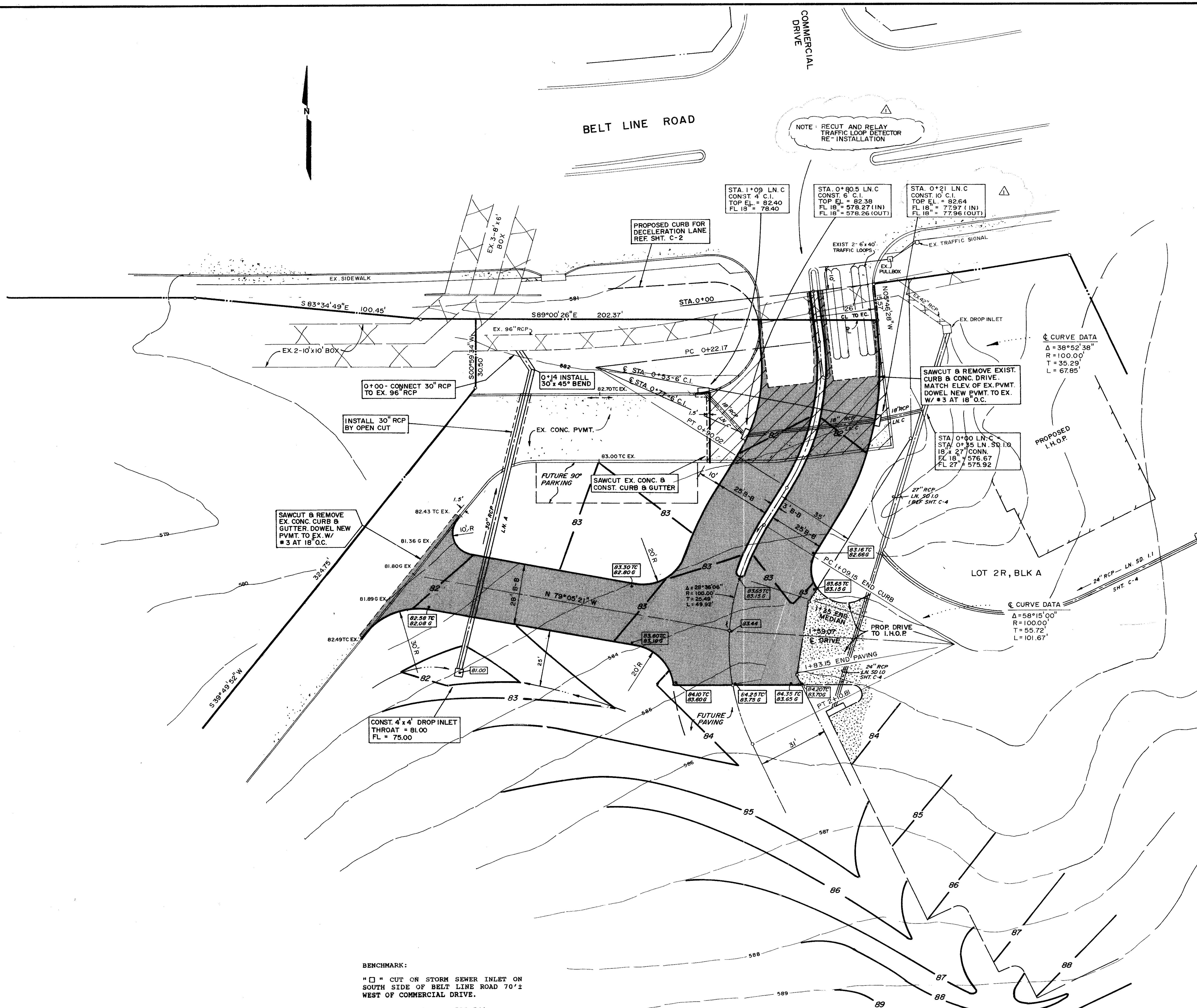


| | | | | | | |
|----------------------------|-------|---------|----------|-------|-------|---------------------------------------|
| DECELERATION LANE | | | | | | |
| BELT LINE ROAD | | | | | | |
| PRINTEMPS ADDITION NO. 2 | | | | | | |
| TOWN OF ADDISON, TX. | | | | | | |
| LAWRENCE A. CATES & ASSOC. | | | | | | CONSULTING ENGINEERS DALLAS, TEXAS |
| DESIGN | DRAWN | DATE | SCALE | NOTES | FILE | NO. |
| LAC | LAC | 5/21/93 | 1" = 20' | D.P. | 92076 | C-2 |

GENERAL NOTES

- PRIOR TO FINAL ACCEPTANCE BY THE TOWN OF ADDISON:
 - A TEXAS REGISTERED PROFESSIONAL ENGINEER SHALL CERTIFY THAT THE PORTION OF THE PROJECT BEING DEDICATED TO ADDISON WAS CONSTRUCTED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS APPROVED BY THE TOWN OF ADDISON.
 - A ONE (1) YEAR MAINTENANCE BOND IS REQUIRED FOR THE CITY'S PORTION OF THE INFRASTRUCTURE.
 - CONTRACTOR SHALL DEMONSTRATE THAT THE WATER AND SANITARY SEWER SYSTEMS MEET THE PROPER PRESSURE, BACTERIA AND MANDREL TESTS.
- 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:
 - TOWN OF ADDISON
 - LOVE STAR GAS
 - SOUTHWESTERN BELL
 - STORER CABLE
 - PLANNED CABLE SYSTEMS
 - TU ELECTRIC
- PRIOR TO BEGINNING CONSTRUCTION, THE OWNER OR HIS AUTHORIZED REPRESENTATIVE SHALL CONVEY A PRE-CONSTRUCTION CONFERENCE BETWEEN THE TOWN OF ADDISON, CONSULTING ENGINEER, CONTRACTOR(S), UTILITY COMPANIES AND ANY OTHER AFFECTED PARTIES. NOTIFY BRUCE ELLIS AT 450-2847 AT LEAST 48 HOURS PRIOR TO THE TIME OF THE CONFERENCE AND 48 HOURS PRIOR TO BEGINNING OF CONSTRUCTION.
- ANY EXISTING PAVEMENT, CURB(S) AND/OR SIDEWALKS DAMAGED OR REMOVED WILL BE REPAIRED BY THE CONTRACTOR AT THEIR EXPENSE.
- 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 EXACT INTERSECTION POINT OF THE MONUMENT. THE MONUMENTS SHALL BE SET AT SUCH AN ELEVATION THAT AFTER CONSTRUCTION, THE TOP OF THE MONUMENT WILL NOT BE LESS THAN TWELVE (12) INCHES BELOW THE GROUND SURFACE.
- CONTRACTOR SHALL OBTAIN A RIGHT-OF-WAY PERMIT BY THE TOWN OF ADDISON FOR WORKING WITHIN THE PUBLIC RIGHT-OF-WAY EASEMENTS.
- 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.
- THE CONTRACTOR SHALL SUBMIT MATERIAL SHEETS TO THE TOWN OF ADDISON FOR APPROVAL PRIOR TO INCORPORATING MATERIALS INTO THE JOB.

NOTE: RECUT AND RELAY TRAFFIC LOOP DETECTOR RE-INSTALLATION



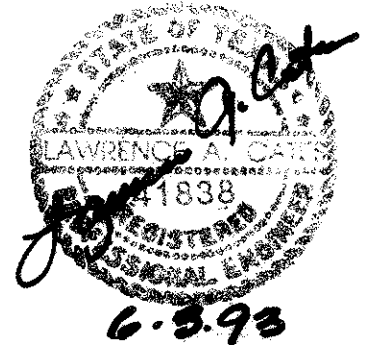
© CURVE DATA
 $\Delta = 38^{\circ}52'38''$
 $R = 100.00'$
 $T = 35.29'$
 $L = 67.85'$

© CURVE DATA
 $\Delta = 58^{\circ}15'00''$
 $R = 100.00'$
 $T = 55.72'$
 $L = 101.67'$

NOTE: REF I.H.O.P. GRADING PLAN SEE SHT. C-2 OF I.H.O.P. CONSTRUCTION PLANS AS PREPARED BY L.A. CATES & ASSOC. INC.

NOTE: ACCESS DR. CONTRACTOR TO COORDINATE LOCATION OF I.H.O.P. ENTRANCE DR. W/ I.H.O.P. GENERAL CONTRACTOR

BENCHMARK:
 * □ * CUT ON STORM SEWER INLET ON SOUTH SIDE OF BELT LINE ROAD 70'± WEST OF COMMERCIAL DRIVE.
 ELEV. 580.56'

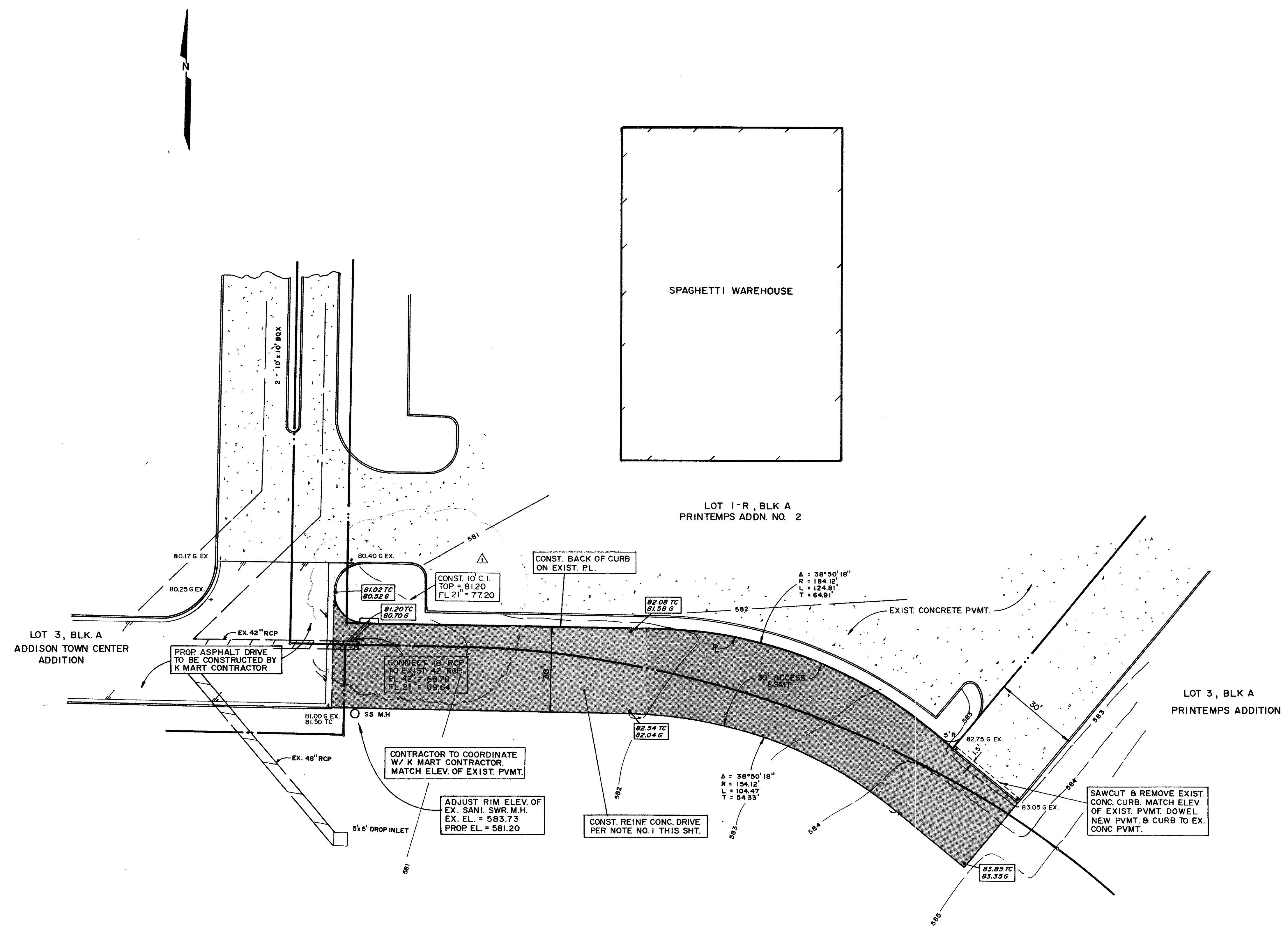


REV. 7/06/93 REV. INLET TO 10" C.I.
 REV. 6/21/93

| | | | | | |
|---------------------------------|-------|---------|----------|-------|---------------------------------------|
| I.H.O.P. ACCESS DRIVE | | | | | |
| PRINTEMPS ADDITION NO. 2 | | | | | |
| TOWN OF ADDISON, TX. | | | | | |
| LAWRENCE A. CATES & ASSOC. | | | | | CONSULTING ENGINEERS DALLAS, TEXAS |
| DESIGN | DRAWN | DATE | SCALE | NOTES | FILE NO. |
| LAC | LAC | 5/28/93 | 1" = 20' | D.P. | 92076 C-3 |

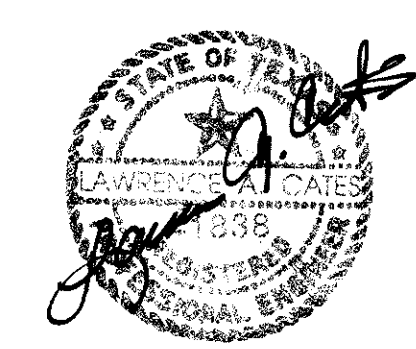
PAVING GENERAL NOTES

1. ALL CONCRETE PAVING SHALL BE 6" THICKNESS AND BE 3,000 PSI CONCRETE AT 28 DAYS WITH A MIXTURE THAT IS A MINIMUM OF FIVE SACKS PER CUBIC YARD AND HAVING A ONE INCH TO FOUR INCH SLUMP AND REINFORCED WITH #3 BARS @ 18" O.C.E.W. FOR 6" THICK PAVEMENT AND REINFORCING SHALL BE SUPPORTED BY CHAIRS AND SPACED AT 16 S.F. MAXIMUM INTERVAL.
2. SUBGRADE SHALL BE SCARIFIED TO A DEPTH OF SIX INCHES (6") AND RECOMPACTED TO 95% STANDARD PROCTOR DENSITY AT ±3% OPTIMUM MOISTURE CONTENT.
3. SEALANT MATERIAL TO BE 0A55 ASPHALT OR A RUBBER BASED COMPOUND. SPECIFICATIONS TO BE SUBMITTED TO THE ENGINEER PRIOR TO INSTALLATION.
4. BREAKOUTS FOR REMOVAL OF EXISTING PAVEMENT AND CURBS SHALL BE MADE BY SAW CUT WHEN ADJACENT TO PROPOSED PAVING AND/OR CURBS.
5. PROPOSED CONCRETE CURBS SHALL MATCH ELEVATIONS OF EXISTING CURB.
6. CONCRETE TO BE FLOAT FINISHED AND CURED FOR A MINIMUM OF 72 HOURS.
7. ALL WORKMANSHIP AND MATERIALS SHALL BE ACCORDANCE WITH TOWN OF ADDISON STANDARD SPECIFICATIONS AND/OR SPECIFICATIONS ESTABLISHED BY THIS PROJECT.
8. CONTRACTOR SHALL SUBMIT A JOINT SPACING PLAN TO THE ENGINEER PRIOR TO PLACEMENT OF CONCRETE PAVEMENT. CONTROL JOINTS SHALL BE INSTALLED AT A MAXIMUM SPACING OF 15' O.C.E.W. EXPANSION JOINTS SHALL BE INSTALLED AT A MAXIMUM SPACING OF 90'. CONCRETE SHALL BE PLACED IN STRIPS NOT TO EXCEED 30 FEET IN WIDTH. LEVEL UP SAND COARSE WILL NOT BE ALLOWED. JOINT SPACING PLAN SHOULD BE SUBMITTED TO ENGINEER FOR APPROVAL.
9. CONTRACTOR WILL PROVIDE A TWO (2) YEAR UNCONDITIONAL MAINTENANCE FREE WARRANTY ON PORTLAND CEMENT CONCRETE PAVEMENT.



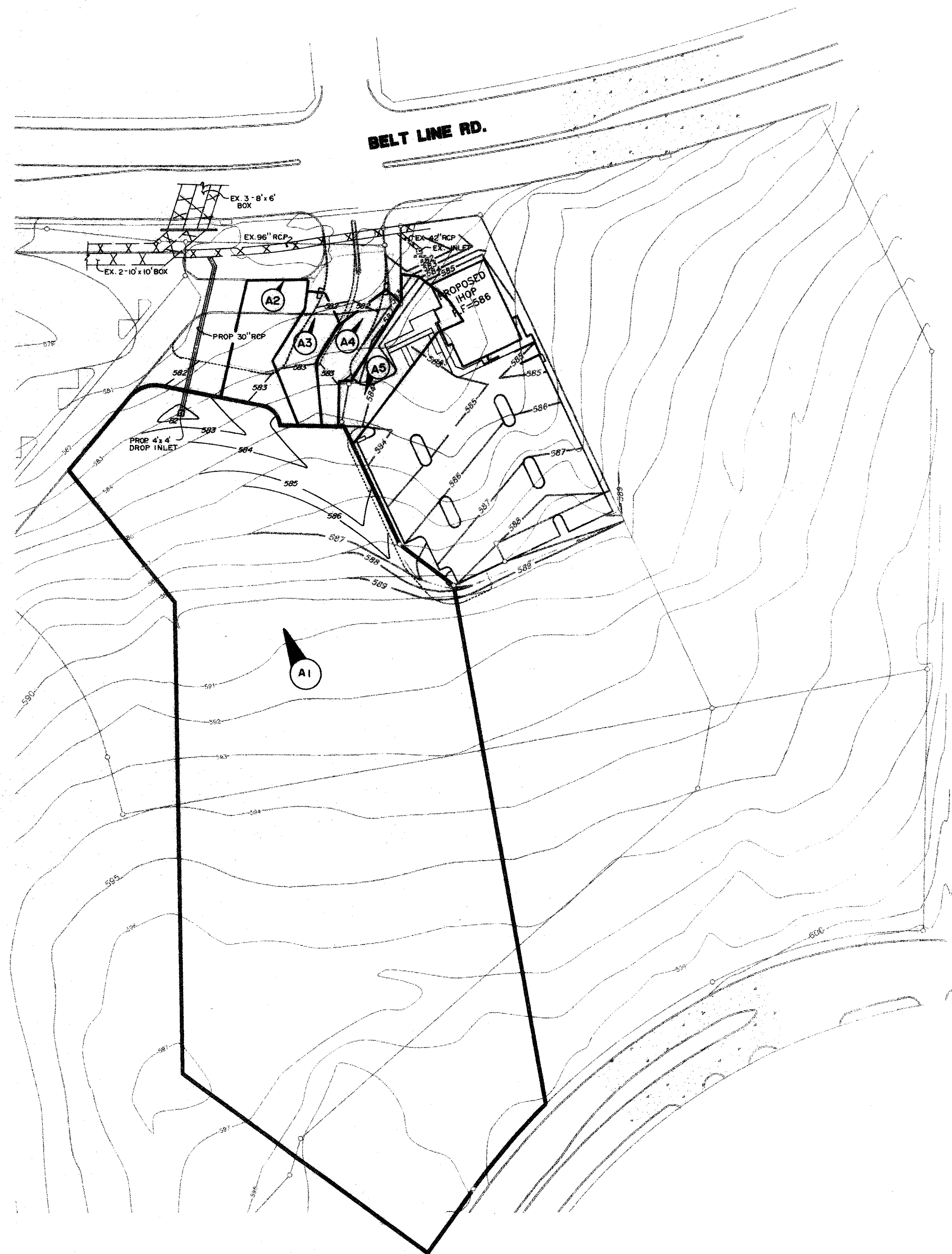
REV. 7/07/93 ADDED 10' C.I.
REV. 6/21/93

BENCHMARK:
" " CUT ON STORM SEWER INLET ON
SOUTH SIDE OF BELT LINE ROAD 70'±
WEST OF COMMERCIAL DRIVE.
ELEV. 580.56'



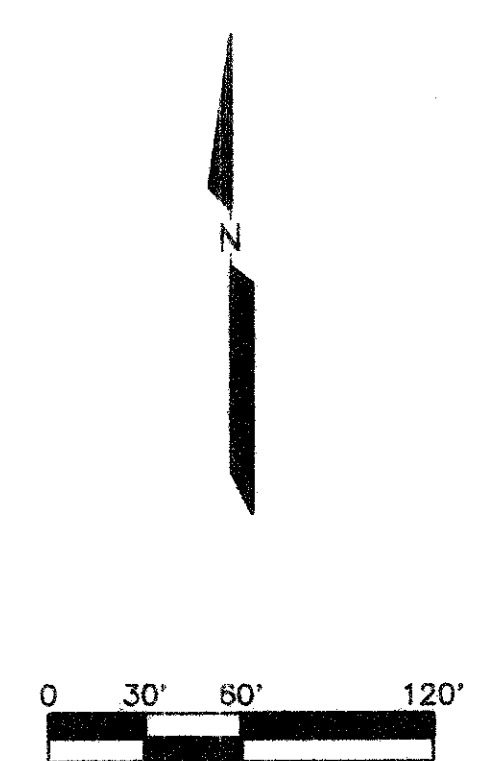
06-03-93

| | | | | | | |
|-----------------------------|-------|---------|----------|-------|-------|---------------------------------------|
| ACCESS DRIVE | | | | | | |
| SPAGHETTI WAREHOUSE | | | | | | |
| BELT LINE ROAD | | | | | | |
| TOWN OF ADDISON, TX. | | | | | | |
| LAWRENCE A. CATES & ASSOC. | | | | | | CONSULTING ENGINEERS DALLAS, TEXAS |
| DESIGN | DRAWN | DATE | SCALE | NOTES | FILE | NO. |
| LAC | LAC | 5/26/93 | 1" = 20' | D.P. | 92023 | C-4 |

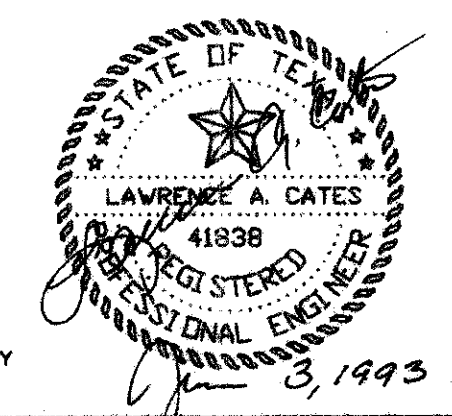


DRAINAGE AREA CALCULATIONS

| AREA | RUNOFF C | INTENSITY 100 YR. | DRAINAGE ACRES | RUNOFF Q-100YR CFS | |
|------|-------------|----------------------|-------------------|-----------------------|--|
| A1 | 0.9 | 7.8 | 4.36 | 30.61 | TO 4'x4' DROP INLET |
| A2 | 0.9 | 7.8 | 0.14 | 0.98 | TO 4' CURB INLET |
| A3 | 0.9 | 7.8 | 0.09 | 0.63 | TO 6' CURB INLET |
| A4 | 0.9 | 7.8 | 0.09 | 0.63 | TO 10' CURB INLET |
| A5 | 0.9 | 7.8 | 0.13 | 0.91 | FROM IHOP (REF PLANS PREPARED BY LAWRENCE A. CATES & ASSOC., INC.) |

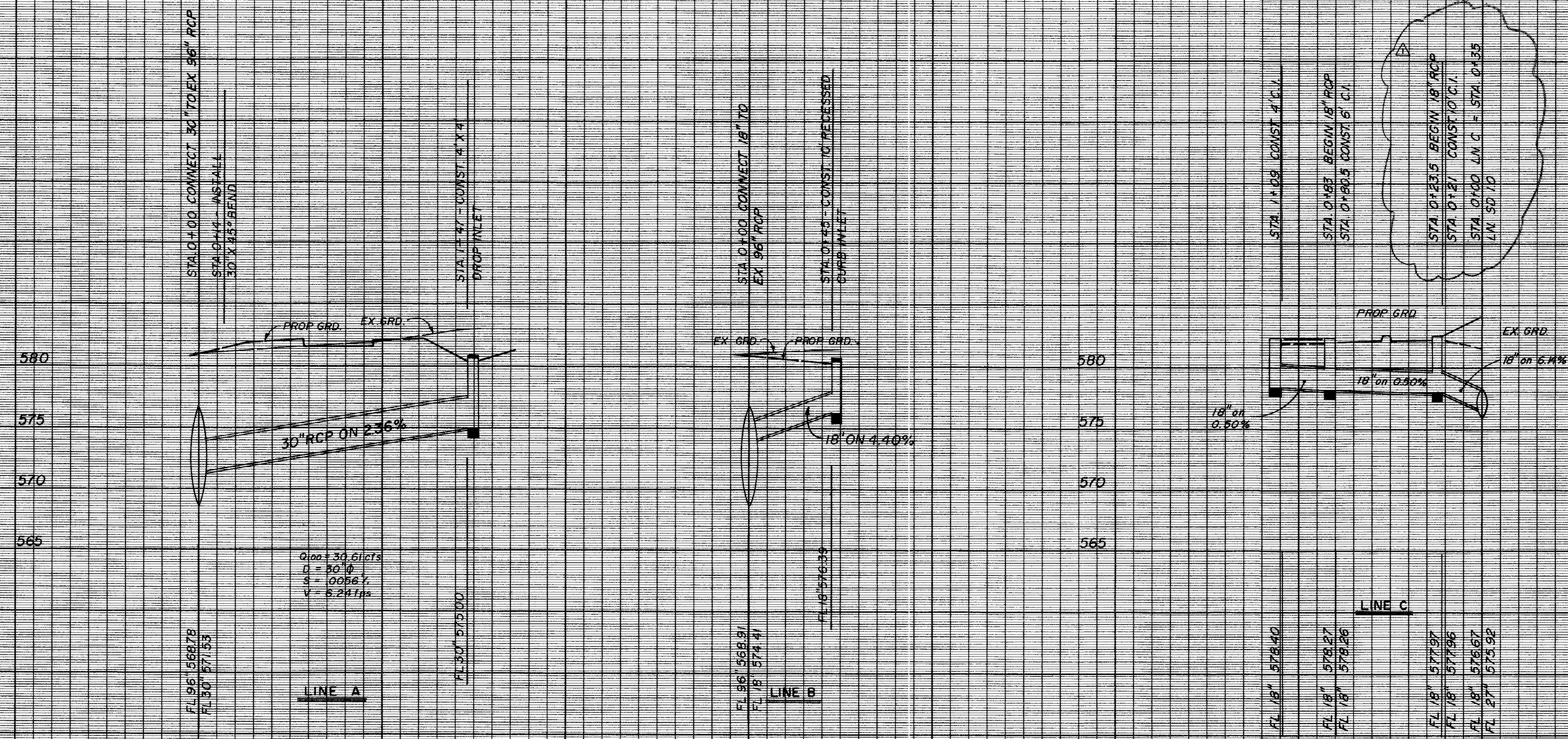


THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY LAWRENCE A. CATES, P.E. 41838 DN



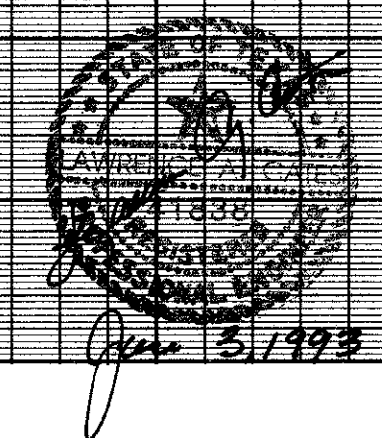
REV. 7/07/93 PER CITY
REV. 6/21/93

| DRAINAGE AREA MAP | | | | | | |
|----------------------------|-------|------|--------|-------|---------------------------------------|-----|
| PRINTEMPS ADDITION NO. 2 | | | | | | |
| CITY OF ADDISON, TEXAS | | | | | | |
| LAWRENCE A. CATES & ASSOC. | | | | | CONSULTING ENGINEERS DALLAS, TEXAS | |
| DESIGN | DRAWN | DATE | SCALE | NOTES | FILE | NO. |
| LAC | LAC | | 1"=60' | D.P. | DNGAREAZ | C-5 |



$Q_{100} = 30.61 \text{ cfs}$
 $N = 0.013$
 $S = 0.0096 \%$
 $V = 6.24 \text{ fps}$

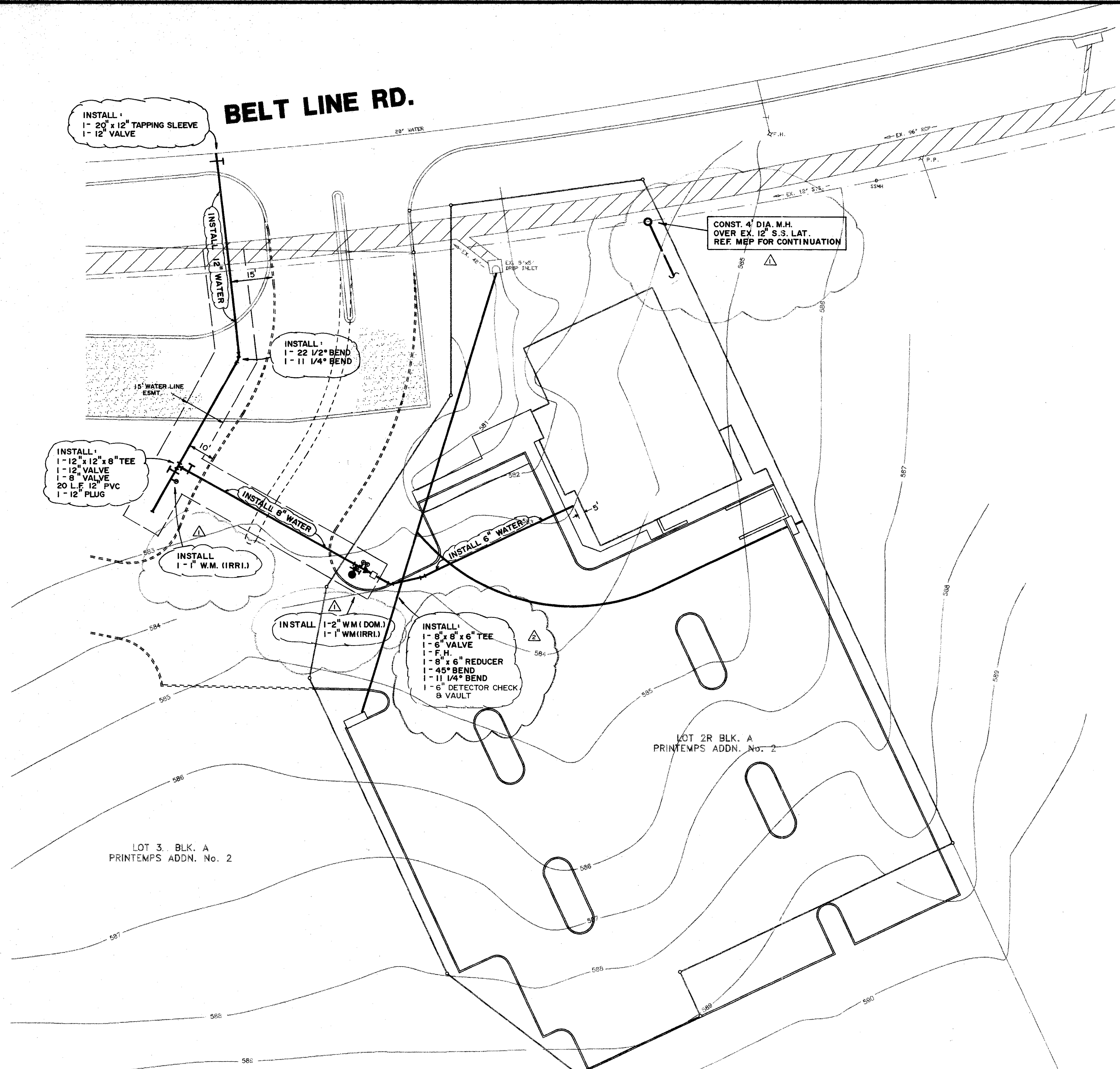
STA 01400 CONNECT 30" TO EX 96" RCP
 STA 01405 - INSTALL
 30" X 4.5' BEND
 STA 1147 - CONST. 4' X 4'
 DROP INLET
 STA 01400 CONNECT 18" TO
 EX 96" RCP
 STA 01405 - CONST. 10' RECESSED
 GUMB INLET
 STA 11488 CONST. 4' C.I.
 STA 01483 BEGIN 18" RCP
 STA 01483.5 CONST. 6' C.I.
 STA 01435 BEGIN 18" RCP
 STA 01481 CONST. 10' C.I.
 STA 01480 LN. C = STA 01435
 LN. 50' ID



REV. 7/07/93 L.N.C. 10/CL
 REV. 8/21/93 ADD L.N.C.

BENCHMARK:
 " " CUT ON STORM SEWER INLET ON
 SOUTH SIDE OF BELT LINE ROAD 70' ±
 WEST OF COMMERCIAL DRIVE.
 ELEV. 580.56'

| STORM SEWER PROFILES | | | | | | |
|---|-------|---------|---------------------|-------|-------|-----|
| PRINTemps ADDITION NO. 2 | | | | | | |
| TOWN OF ADDISON, TX. | | | | | | |
| LAWRENCE A. CATES & ASSOC. CONSULTING ENGINEERS DALLAS, TEXAS | | | | | | |
| DESIGN | DRAWN | DATE | SCALE | NOTES | FILE | NO. |
| LAC | LAC | 5/29/93 | H 1"=40' V 1"=6' | D.P. | 92076 | C-6 |



WATER LINE GENERAL NOTES

1. ALL WORK AND MATERIALS, UNLESS OTHERWISE NOTED, SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR TOWN OF ADDISON.
2. BASE BID - ALL 6", 8", 10" AND 12" WATER MAINS SHALL BE PVC, ANNA C900, DR 15, CLASS 150 WATER PIPE. FOR PVC SERVICE TAPPING SADDLES SHALL BE USED.
3. ALL WATER MAINS SHALL HAVE MINIMUM COVER AS FOLLOWS: 6", 8", 10", AND 12": 48" BELOW FINISHED PAVEMENT GRADE, OR 60" BELOW EXISTING OR FINISHED GRADE IN UNPAVED AREAS, OR AS REQUIRED TO CLEAR OTHER UTILITIES.
4. EXTEND WATER DEADHEADS AND SANITARY SEWER LATERALS BEYOND PROPOSED CURB AS SHOWN ON THE WATER PLAN.
5. FIRE HYDRANTS TO BE TOWN OF ADDISON APPROVED (MUELLER CENTURION MODEL).
6. VALVES TO BE TOWN OF ADDISON APPROVED.
7. THE WATER METER BOX SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR AFTER THE PAVING CONTRACTOR HAS COMPLETED THE FINE GRADING BEHIND THE BACK OF THE CURB. EACH SERVICE LOCATION WILL BE MARKED ON THE PAVEMENT OR CURB, WITH A BLUE DOT BY THE UTILITY CONTRACTOR AND TIED TO PROPERTY CORNERS ON THE "RECORD DRAWINGS."
8. THE CONTRACTOR SHALL FURNISH A MAINTENANCE BOND TO THE TOWN TO RUN ONE (1) YEAR FROM THE DATE OF ACCEPTANCE OF THE SYSTEM BY THE TOWN.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING "RECORD DRAWING" PLANS TO THE ENGINEER SHOWING THE LOCATION OF WATER SERVICES AND VALVES.
10. FIRE HYDRANTS SHALL BE PAINTED AS PER TOWN OF ADDISON STANDARDS AND SPECIFICATIONS AND LOCATED IN A PROTECTED AREA WITH 6" CURB OR BOLLARDS.
11. STEAMER NOZZLES ON FIRE HYDRANTS SHALL BE 18" ABOVE THE TOP OF THE CURB ON FINISHED GRADE, AND SHALL FACE THE CENTER OF THE FIRE LANE OR STREET. FIRE HYDRANTS SHALL USUALLY BE LOCATED FOUR (4) FEET, BUT NOT LESS THAN TWO (2) FEET NOR MORE THAN SIX (6) FEET, BEHIND THE CURB.
12. ALL WATER LINES SHALL BE HYDROSTATICALLY TESTED PER TOWN OF ADDISON STANDARDS AND SPECIFICATIONS.
13. ALL WATER LINES SHALL BE STERILIZED PER TOWN OF ADDISON STANDARDS AND SPECIFICATIONS.
14. ALL METER BOXES SHALL BE LOCATED IN NON-TRAFFIC AREAS AND PROTECTED BY 6" CURB OR BOLLARDS.
15. THE HORIZONTAL AND VERTICAL LOCATIONS OF EXISTING SUBSURFACE UTILITIES HAVE BEEN DETERMINED FROM RECORD DRAWINGS. THE CONTRACTOR SHALL VERIFY THAT NECESSARY CLEARANCES BETWEEN EXISTING AND PROPOSED UTILITIES EXIST PRIOR TO THE CONSTRUCTION OF ANY SUCH CROSSING. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INVESTIGATE AS TO WHETHER ADDITIONAL FACILITIES EXIST.
16. UTILITY TRENCHES SHALL BE BACKFILLED WITH MATERIAL PER TOWN OF ADDISON SPECIFICATIONS (95% STANDARD PROCTOR DENSITY).
17. ANCHOR FITTINGS SHALL BE USED TO ATTACH FIRE HYDRANTS.
18. ALL MANHOLES, CLEANOUTS, VALVE BOXES, FIRE HYDRANTS, ETC., MUST BE ADJUSTED TO PROPER LINE AND GRADE BY CONTRACTOR AFTER PLACEMENT OR PERMANENT PAVING.
19. A NO. 12 PLASTIC COATED WIRE SHALL BE PLACED IN THE TRENCH OVER ALL WATER LINES. THE WIRE SHALL BE TIED TO ALL VALVES AND FIRE HYDRANTS AND ATTACHED DIRECTLY TO THE TOP OF PIPE AND EXTENDED TO SIX INCHES ABOVE FINISHED GRADE ALONG THE OUTSIDE OF ALL VALVE STACKS AND FIRE HYDRANTS.
20. ALL LOCATION DIMENSIONS SHOWN ARE CENTERLINE OF PIPE.
21. CONTRACTOR SHALL BE RESPONSIBLE FOR TRENCH SAFETY DESIGN AND DETAILS AS REQUIRED, AND SHALL SUBMIT ENGINEERED DESIGN.
22. CONTRACTOR SHALL KEEP WATER AND ELECTRICAL SERVICES TO THE EXISTING LANDSCAPE MEDIANS IN SERVICE AT ALL TIMES DURING CONSTRUCTION. IF THE CONSTRUCTION OF THE PROJECT REQUIRES THE RELOCATION OF EXISTING CITY LANDSCAPE FACILITIES INCLUDING METERS, VALVES, LINES, ETC., THIS WORK WILL BE COMPLETED BY A LICENSED IRRIGATION AND/OR ELECTRICIAN AT THE CONTRACTOR'S EXPENSE.

INSTALL:
1- 20" x 12" TAPPING SLEEVE
1- 12" VALVE

BELT LINE RD.

CONST. 4" DIA. M.H.
OVER EX. 12" S.S.L.
REF. MEP FOR CONTINUATION

INSTALL:
1- 22 1/2" BEND
1- 11 1/4" BEND

INSTALL:
1- 12" x 12" x 8" TEE
1- 12" VALVE
1- 8" VALVE
20 L.F. 12" PVC
1- 12" PLUG

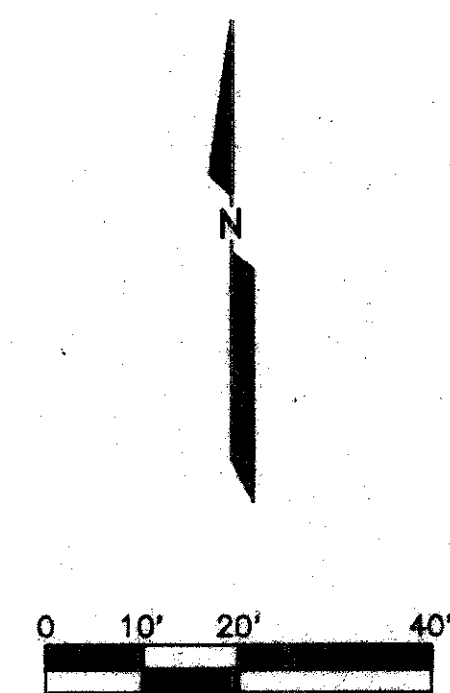
INSTALL
1- 1" W.M. (IRRI.)

INSTALL:
1- 2" W.M. (DOM.)
1- 1" W.M. (IRRI.)

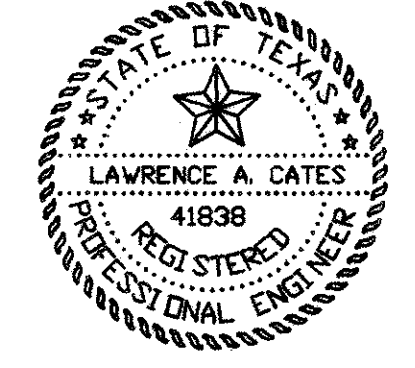
INSTALL:
1- 8" x 8" x 6" TEE
1- 6" VALVE
1- F.H.
1- 8" x 6" REDUCER
1- 45° BEND
1- 11 1/4" BEND
1- 6" DETECTOR CHECK
8 VAULT

LOT 2R BLK. A
PRINTEMPS ADDN. No. 2

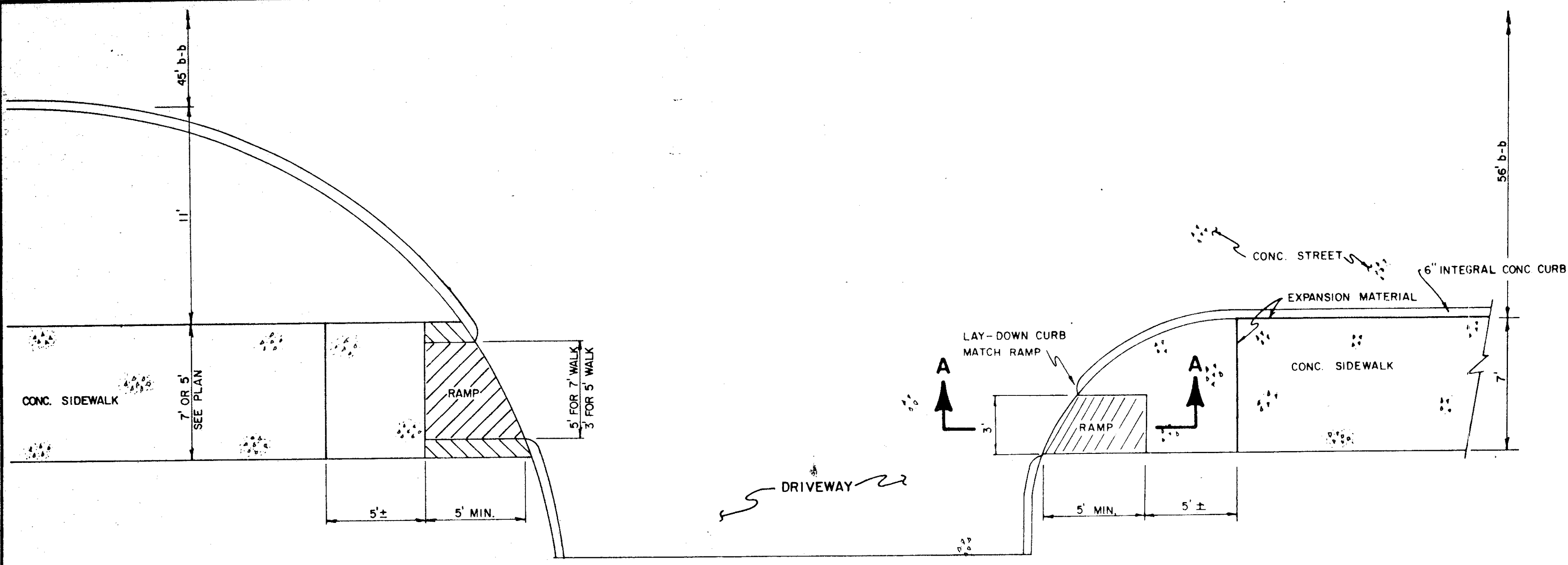
LOT 3, BLK. A
PRINTEMPS ADDN. No. 2



THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY LAWRENCE A. CATES, P.E. 41838 ON MAY 27, 1993

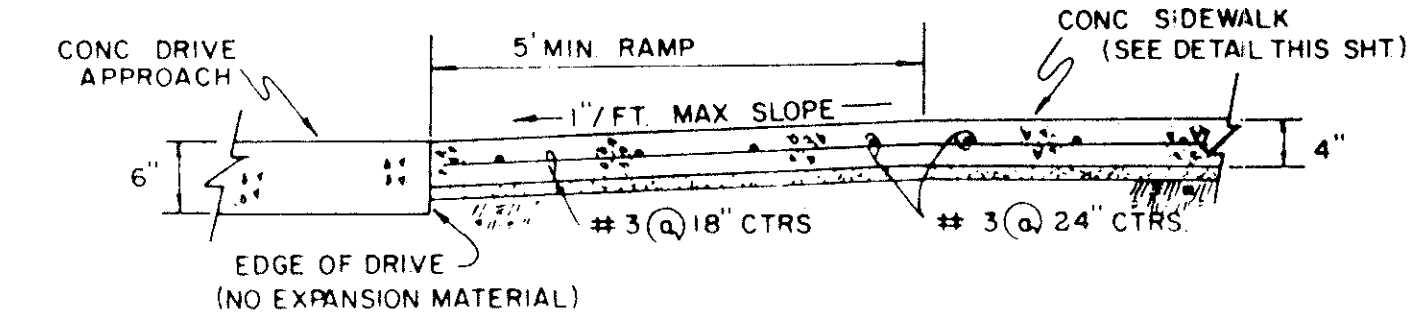


| | | | | | | |
|---|--------------------|------|--------|-------|-------|-----|
| 7/07/93 | ADD DETECTOR CHECK | | | | | |
| 6/24/93 | | | | | | |
| 6/1/93 | | | | | | |
| FIRE HYDRANT PLAN | | | | | | |
| INTERNATIONAL HOUSE OF PANCAKES | | | | | | |
| LOT 2R, BLOCK A | | | | | | |
| TOWN OF ADDISON, TEXAS | | | | | | |
| LAWRENCE A. CATES & ASSOC. CONSULTING ENGINEERS DALLAS, TEXAS | | | | | | |
| DESIGN | DRAWN | DATE | SCALE | NOTES | FILE | NO. |
| LAC | LAC | | 1"=20' | D.P. | TOMMY | C-7 |



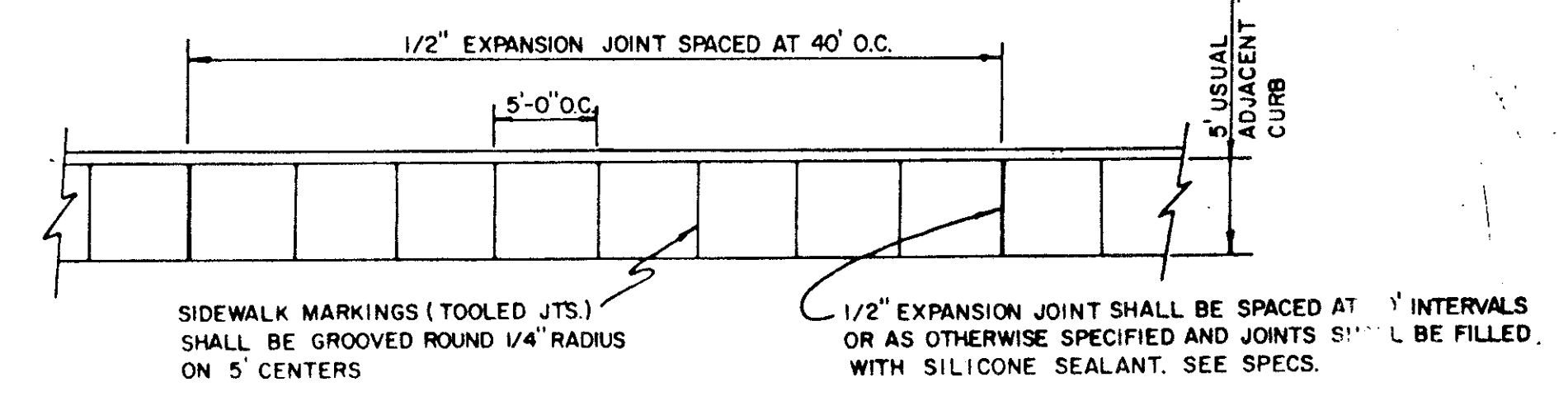
PLAN

NOTE
MODIFY RAMP TO
FIT DIFFERENT RADIUS

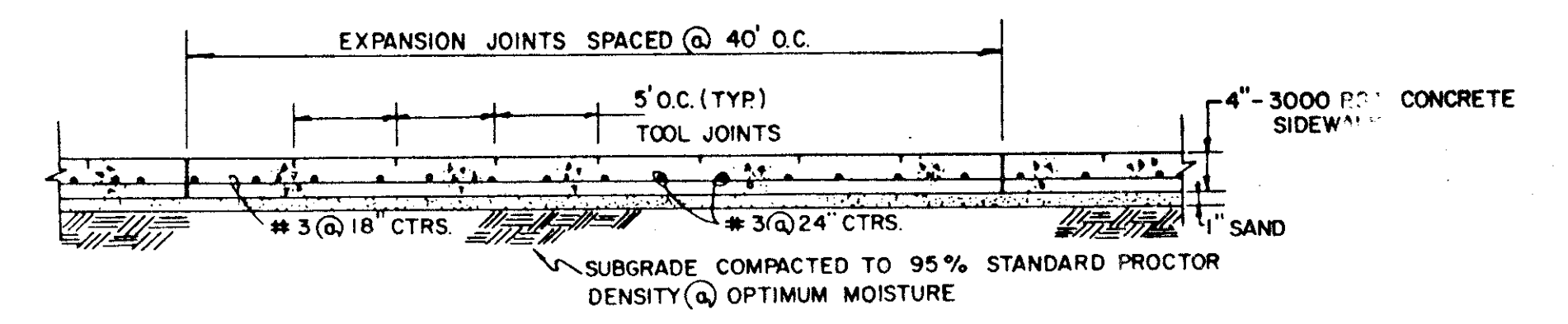


SECTION A-A

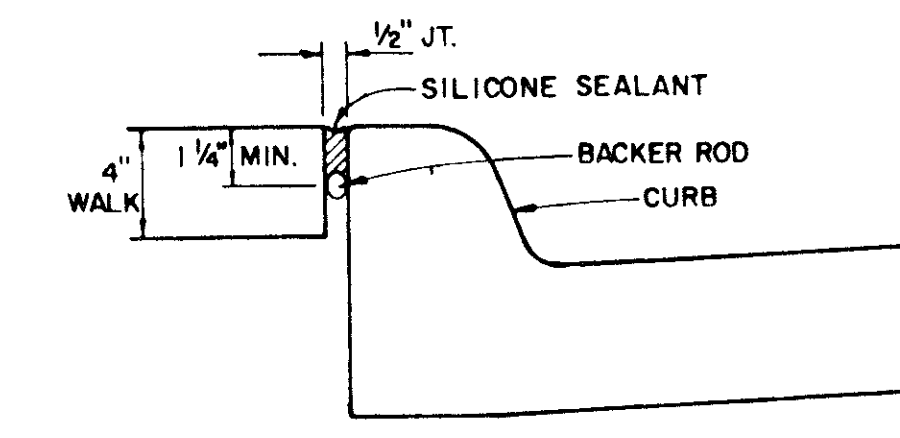
**BARRIER-FREE RAMP DETAIL
WITH WALK ADJACENT TO CURB**



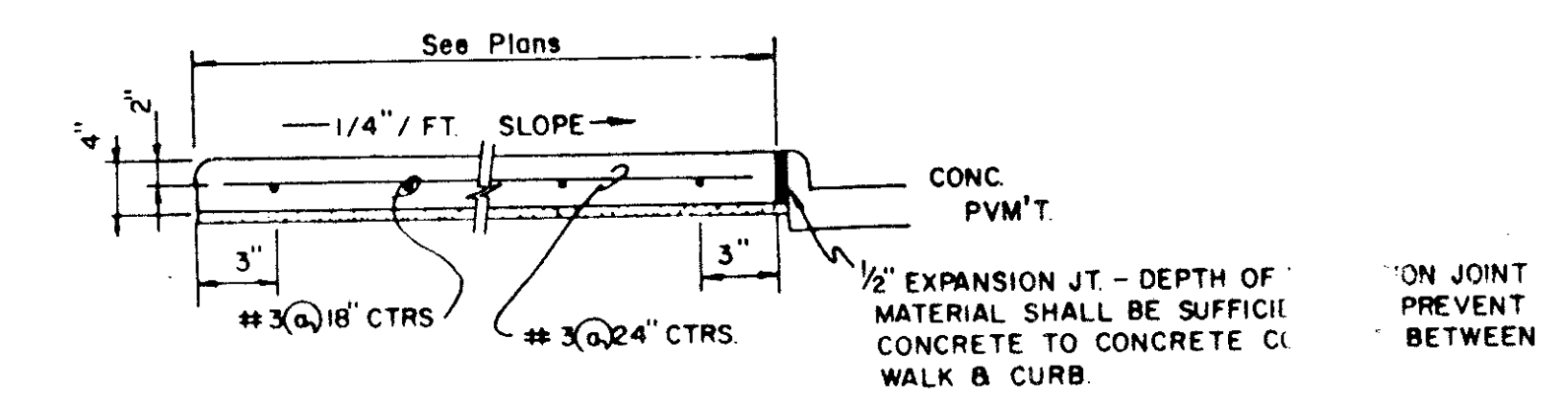
PLAN



SIDE ELEVATION

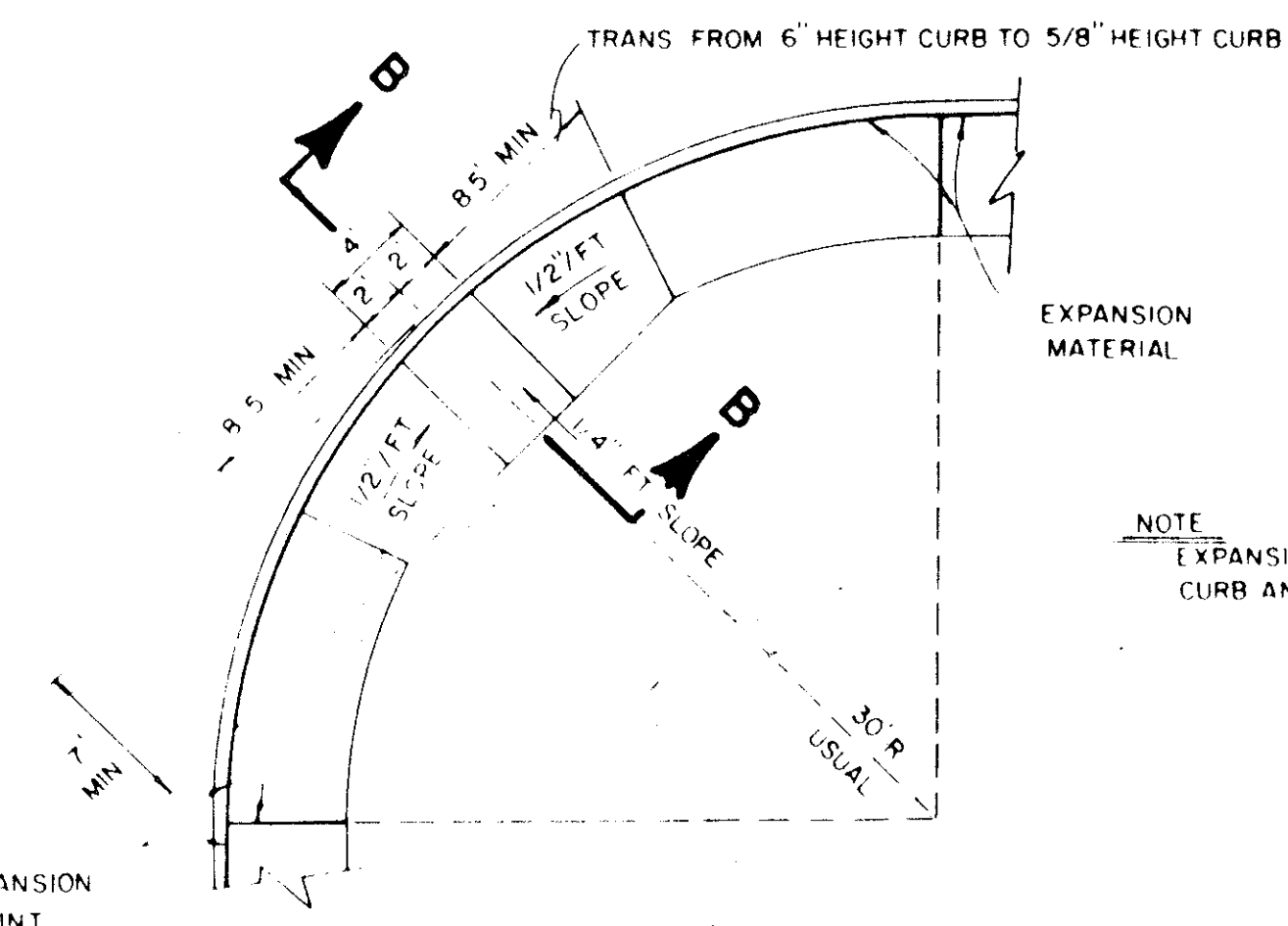


EXPANSION JOINT DETAIL



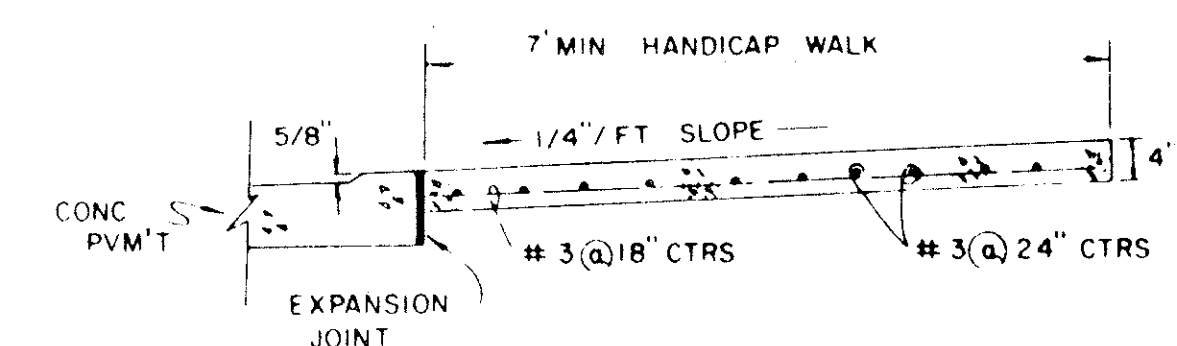
SECTION

CONCRETE SIDEWALK DETAIL



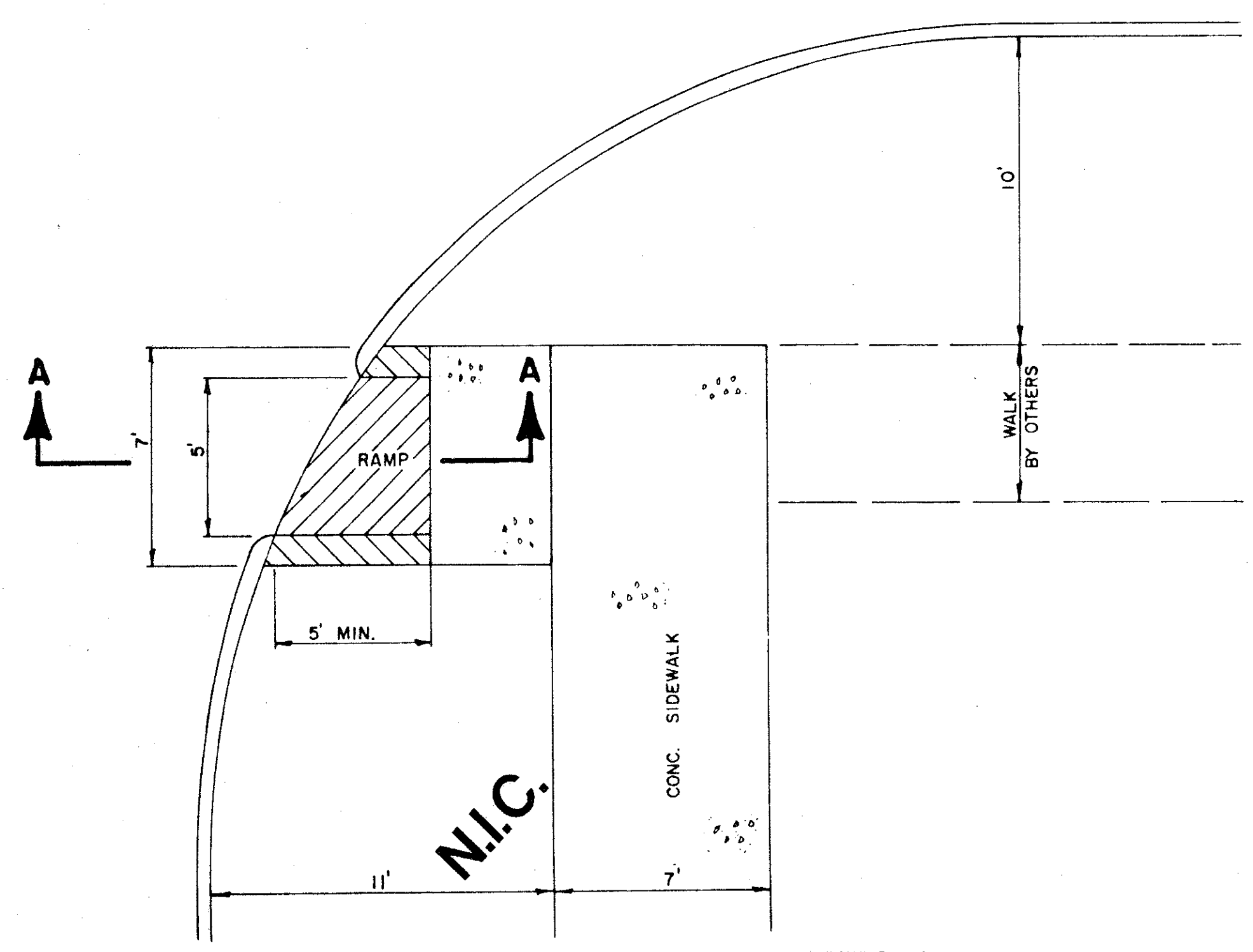
PLAN

NOTE
EXPANSION MATERIAL ALONG
CURB AND AT CURB RETURNS



SECTION B-B

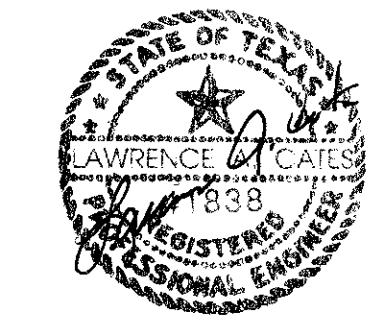
HANDICAP ROLL-DOWN CURB DETAIL



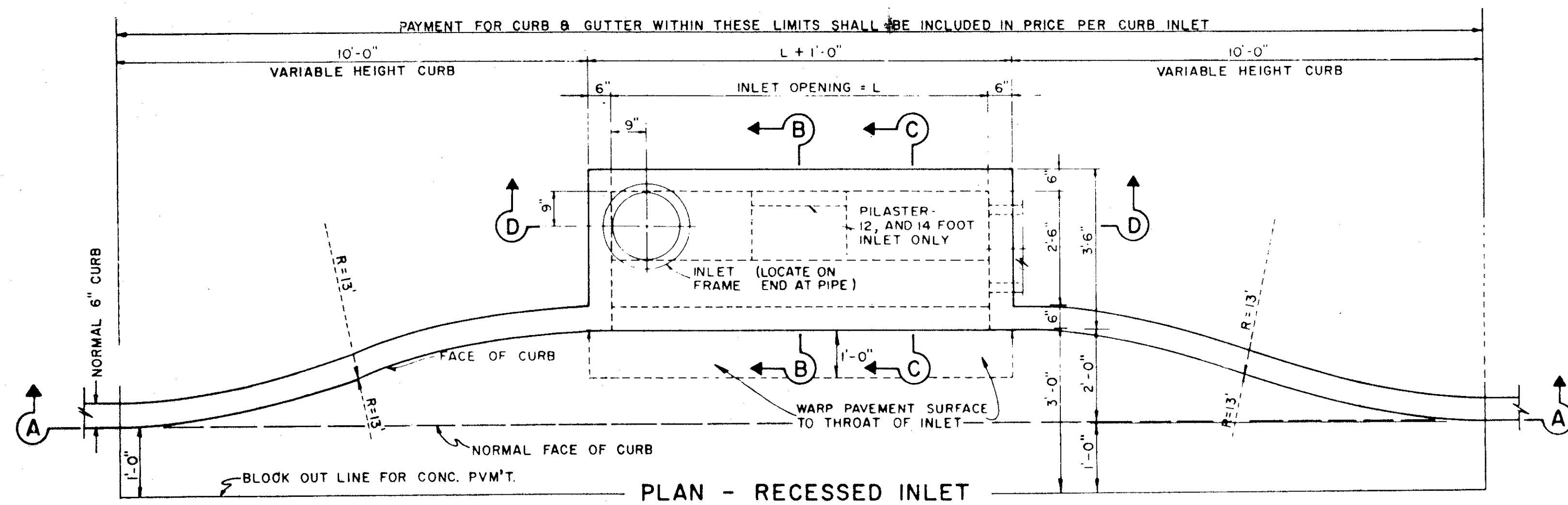
**BARRIER FREE RAMP DETAIL
WITH WALK SEPARATE FROM CURB**

GENERAL NOTES

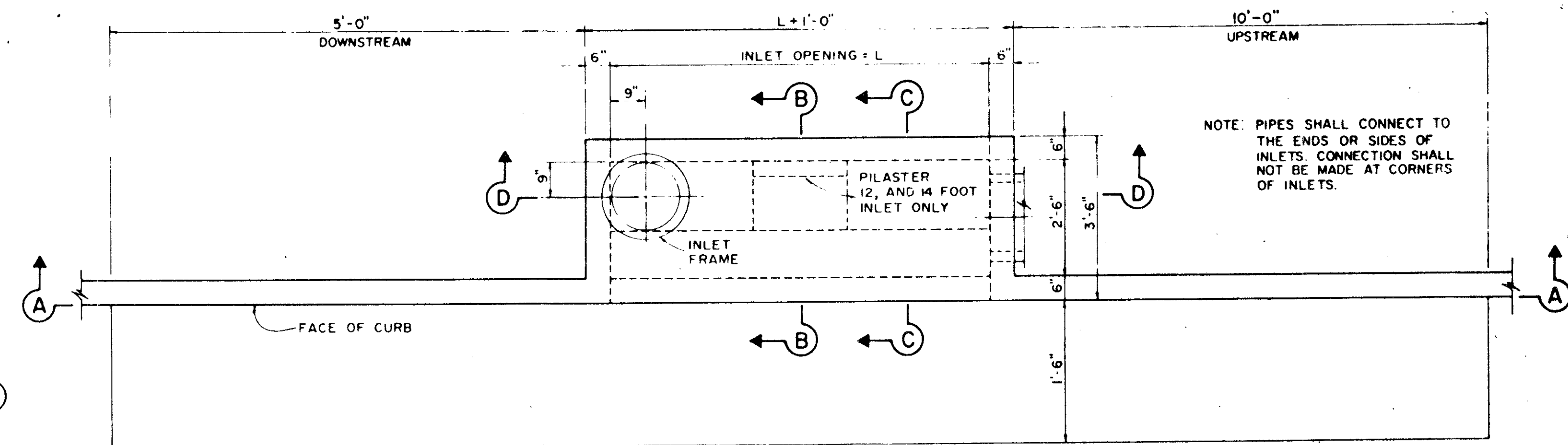
1. Reinforced concrete sidewalk shall be 5 or 7 feet wide, a minimum of four (4) inches thick and shall be 3000 psi at 28 days (5 sack mix). Unless noted otherwise.
2. Chamfer all exposed edges of concrete (1/4) inch.
3. All bar dimensions are given as center to center of bars and are located as shown.
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.



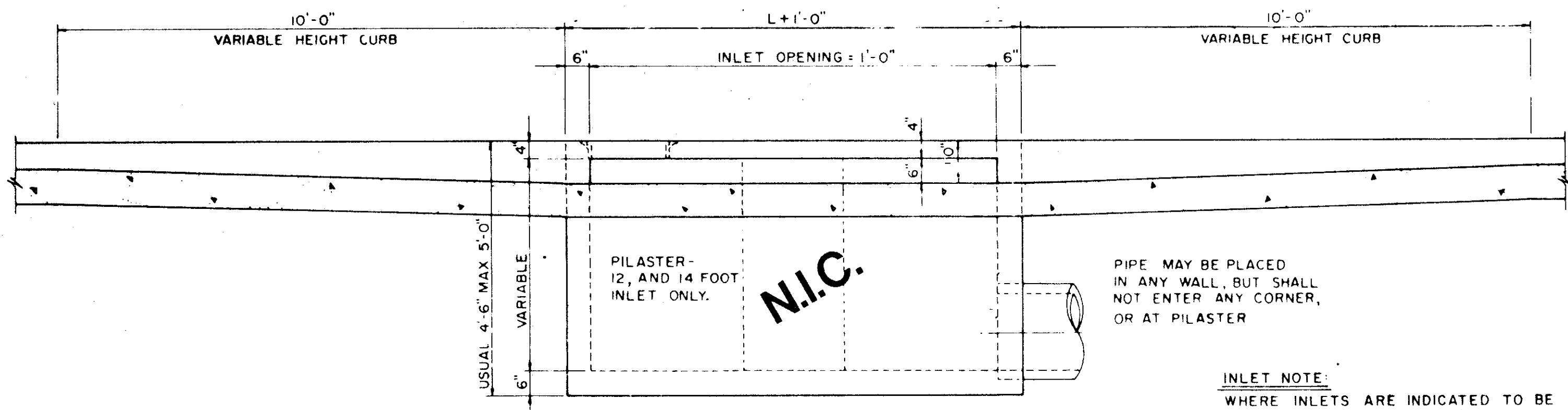
| NO | REVISION | BY | DATE |
|---|----------|----|------------|
| TOWN OF ADDISON, TEXAS DEPARTMENT OF ENGINEERING | | | |
| STANDARD CONSTRUCTION DETAILS PAVING | | | |
| SIDEWALKS & RAMPS | | | |
| APPROVED _____ | | | |
| DATE | | | SHEET SD-2 |



PLAN - RECESSED INLET

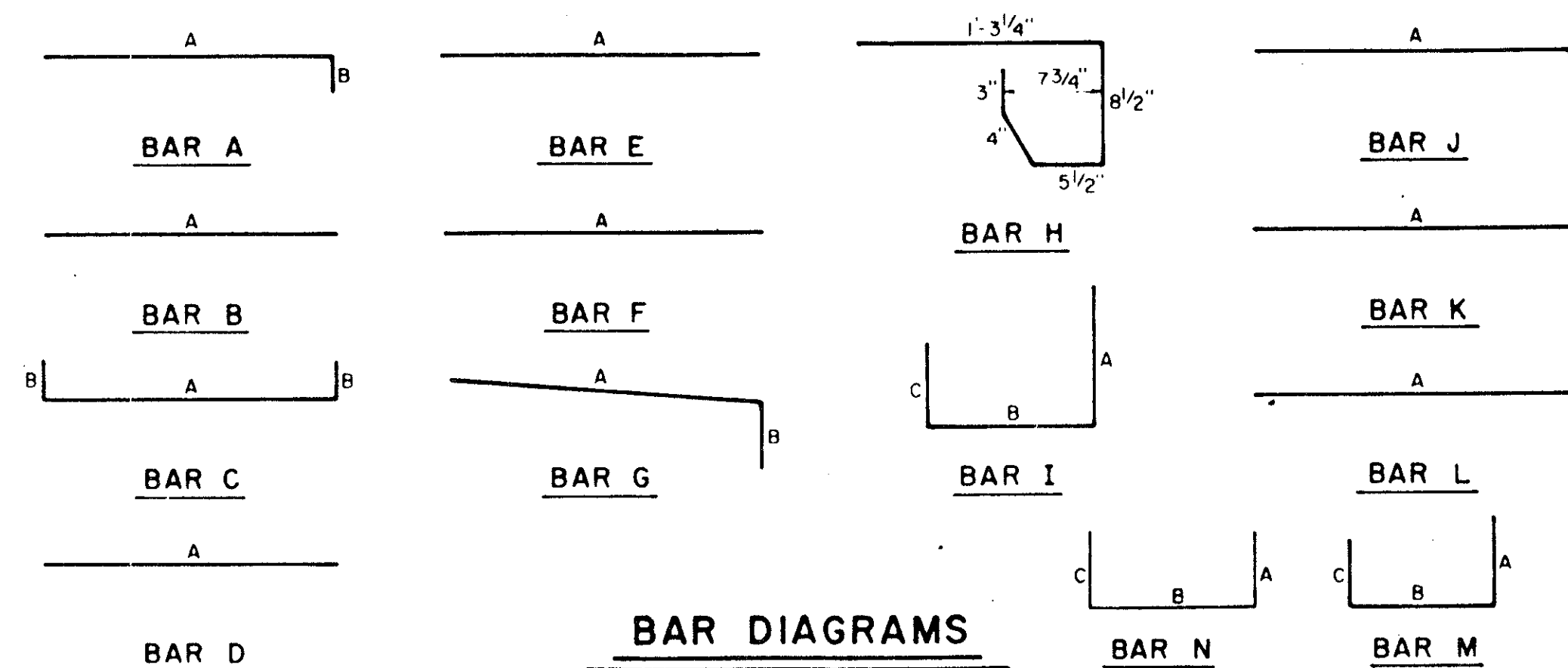


PLAN - STANDARD INLET



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 ON MODIFICATIONS. ALL OTHER ITEMS SHALL REMAIN AS SHOWN ON THIS STANDARD DETAIL SHEET



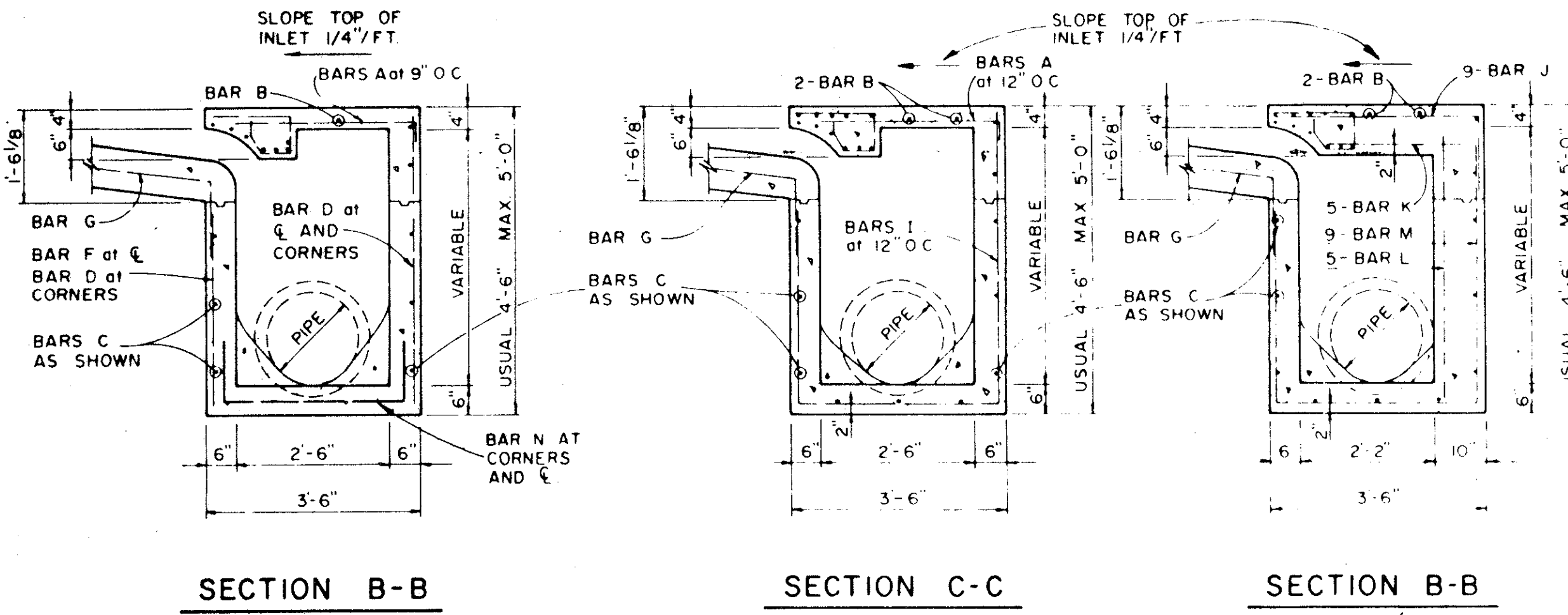
BAR DIAGRAMS

REINFORCING STEEL SCHEDULE

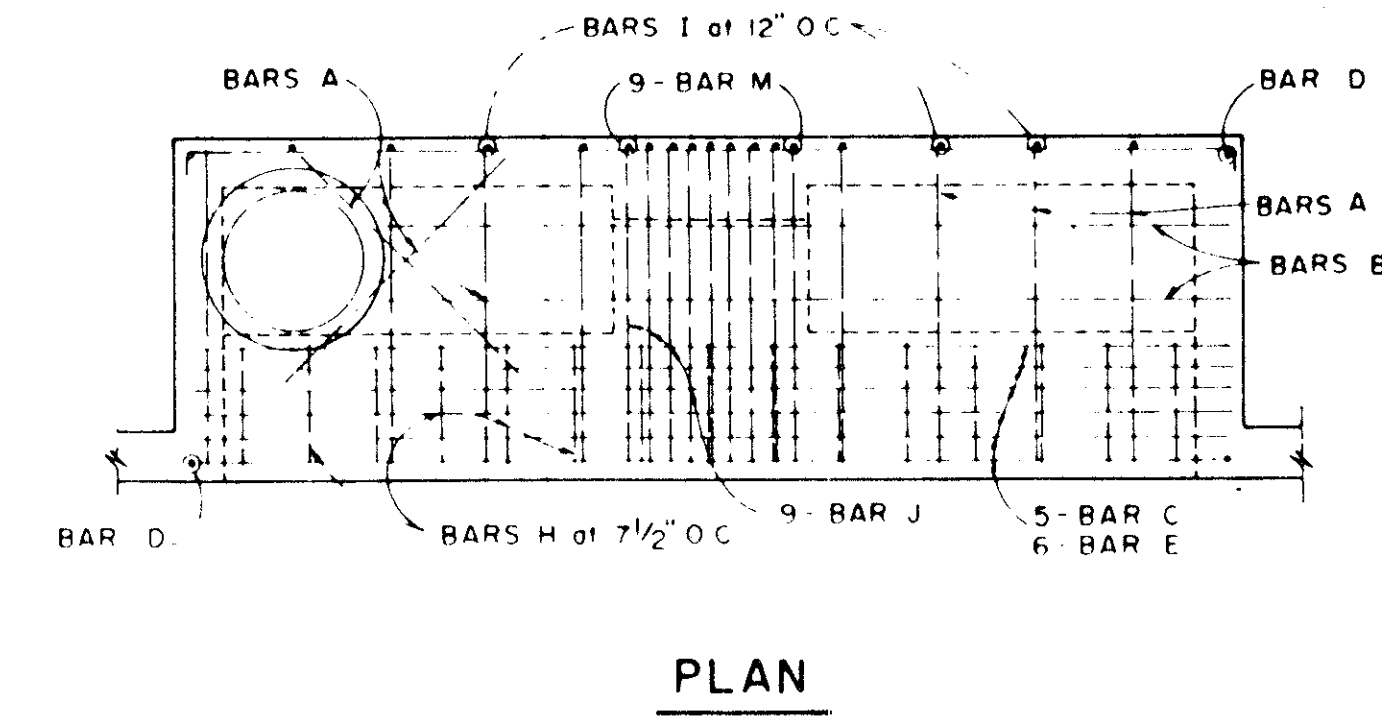
DIMENSIONS SHOWN ARE FOR MAXIMUM SIZE INLETS

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

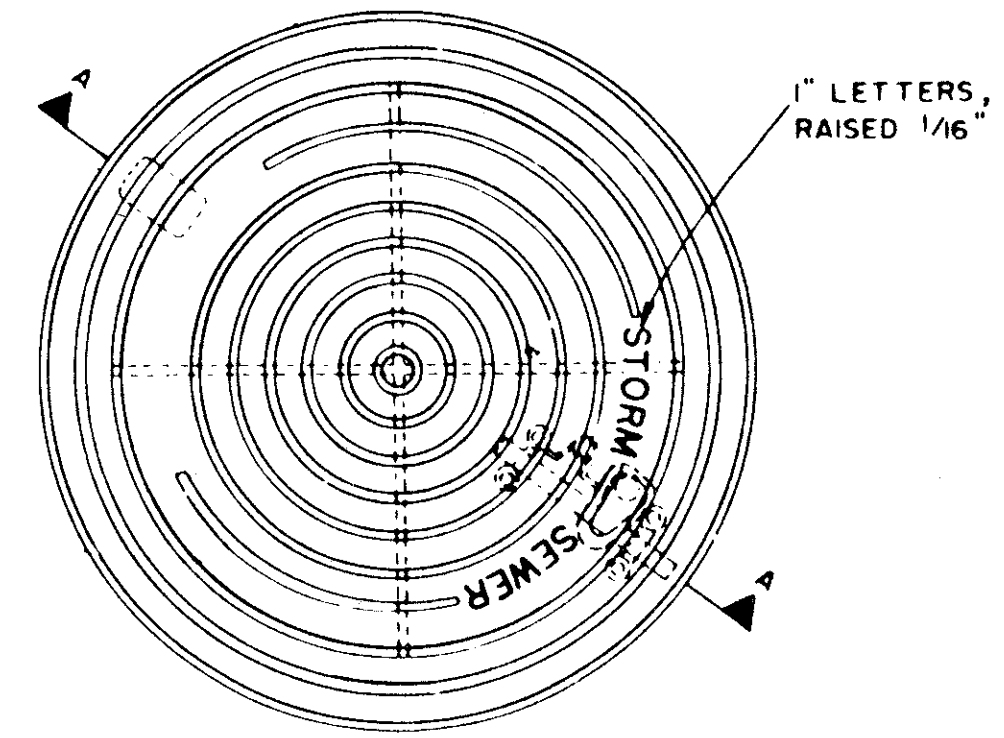
* SEE DIAGRAM FOR DIMENSIONS



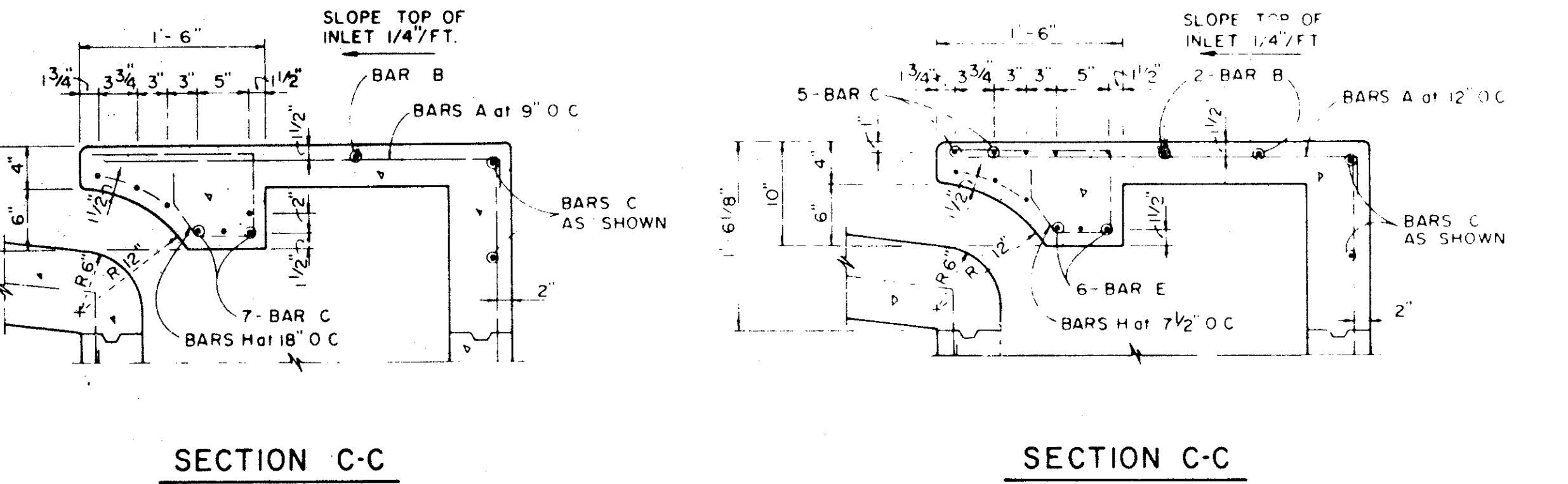
SECTION B-B SECTION C-C SECTION B-B



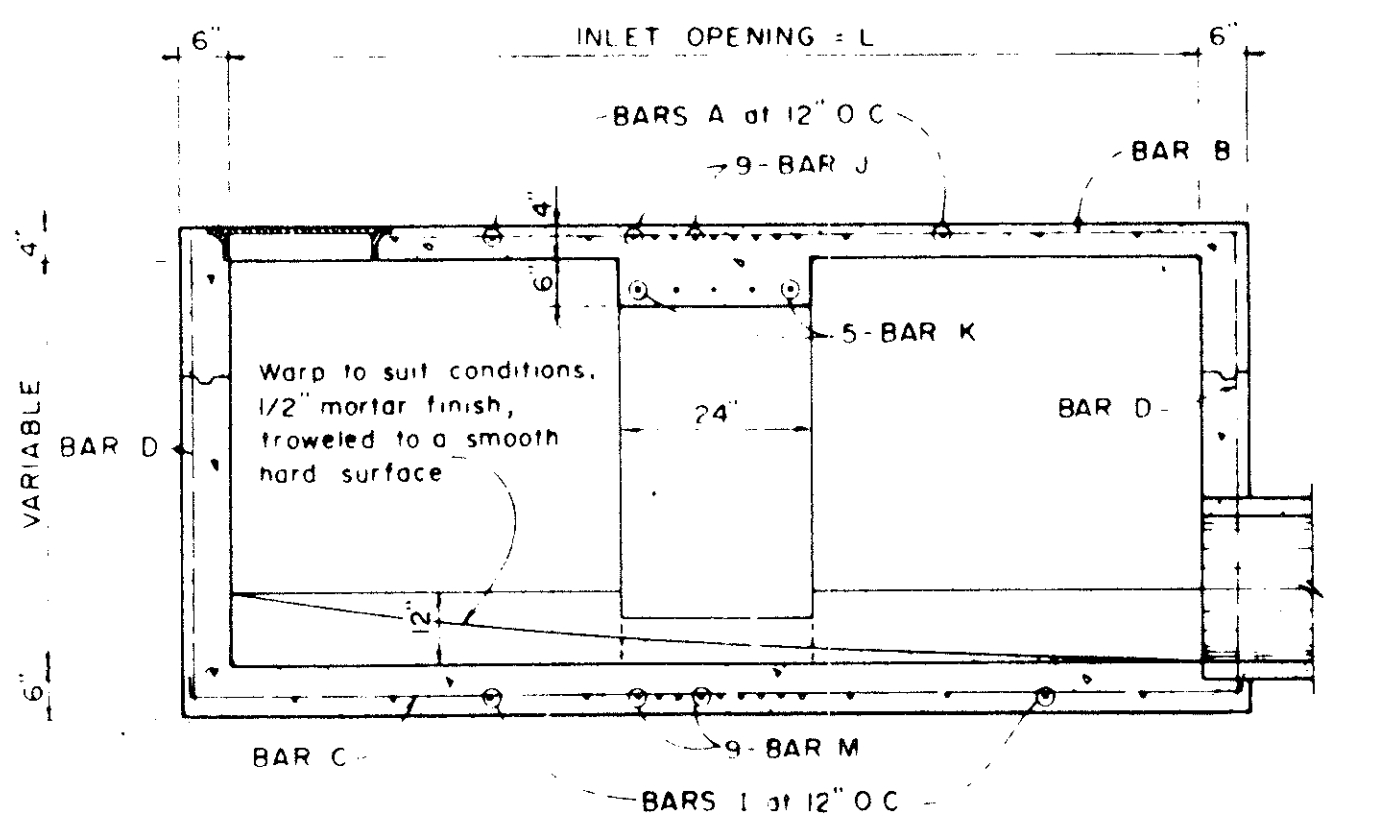
PLAN



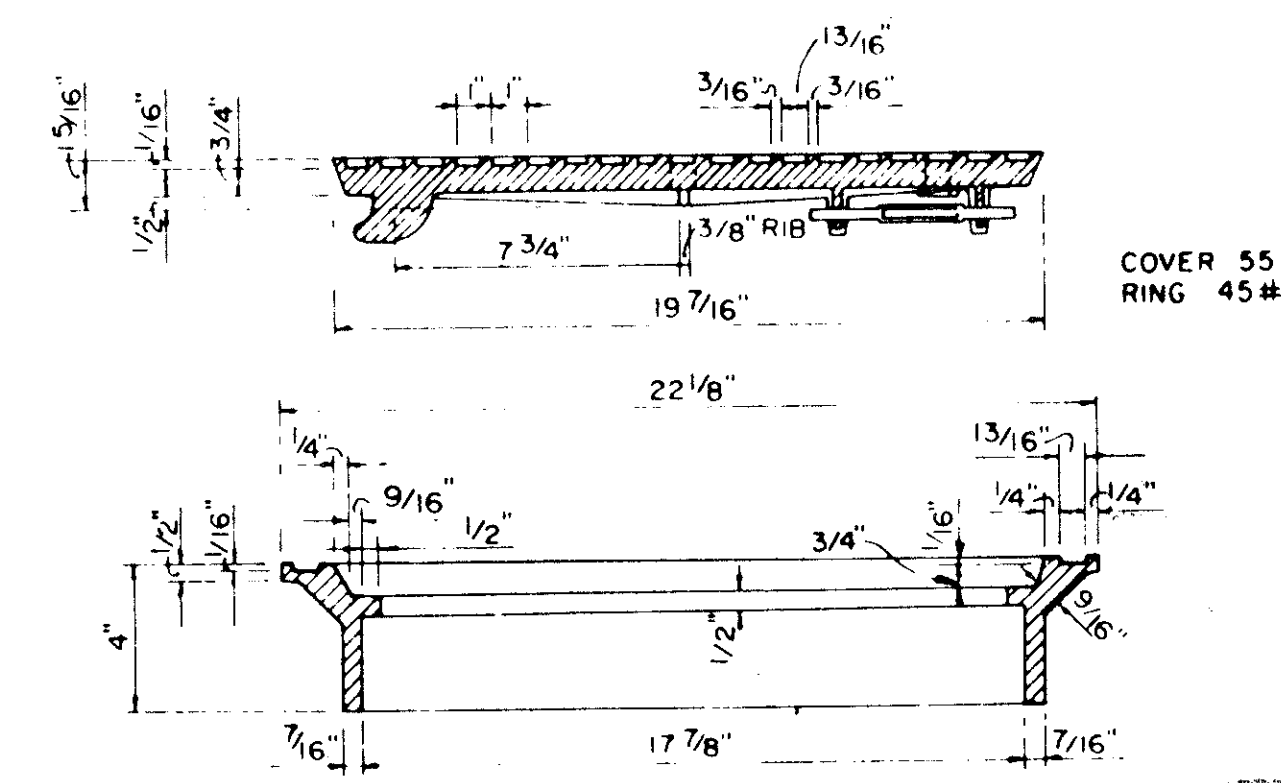
PLAN OF FRAME



SECTION C-C SECTION C-C



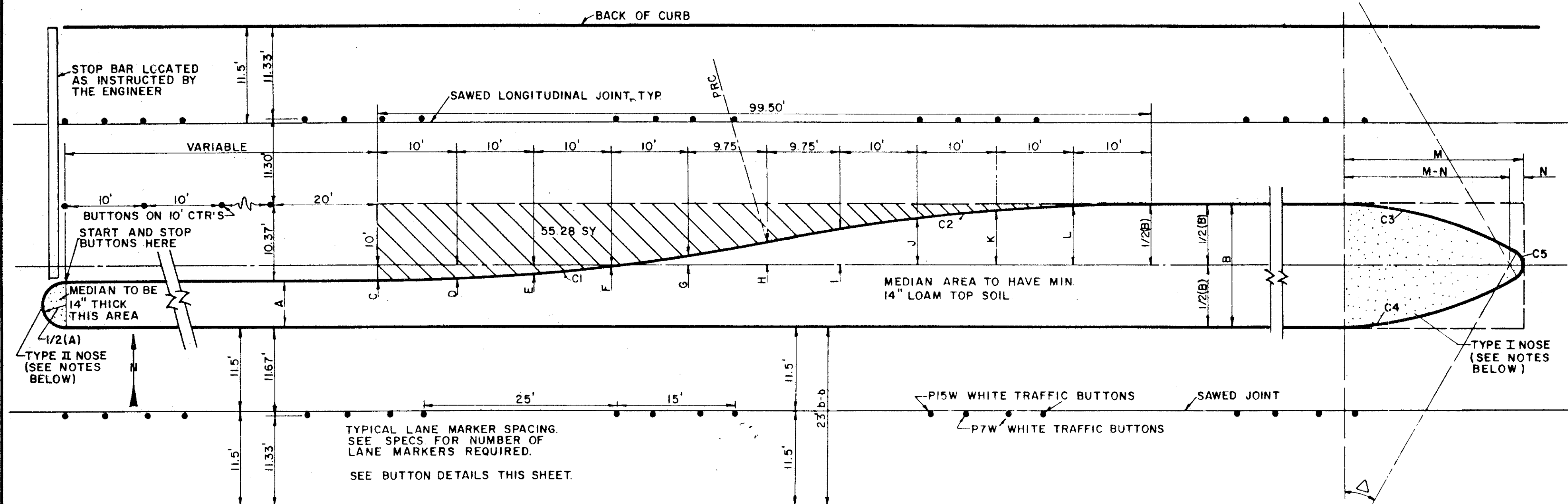
SECTION D-D FOR 12' & 14' ONLY



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 SD-3 |



MEDIAN DIMENSION CHART

| | B | C | D | E | F | G | H | I | J | K | L | M | N |
|----|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|--------|-------|---|
| 12 | 4.00'S | 3.80'S | 3.20'S | 2.19'S | 0.78'S | 1.00'N | 2.78'N | 4.19'N | 5.20'N | 5.80'N | 22.56' | 1.00' | |
| 13 | 3.50'S | 3.30'S | 2.70'S | 1.69'S | 0.28'S | 1.50'N | 3.28'N | 4.69'N | 5.70'N | 6.30'N | 23.56' | 1.00' | |
| 14 | 3.00'S | 2.80'S | 2.20'S | 1.19'S | 0.22'N | 2.00'N | 3.78'N | 5.19'N | 6.20'N | 6.80'N | 22.68' | 2.50' | |
| 15 | 2.50'S | 2.30'S | 1.70'S | 0.69'S | 0.72'N | 2.50'N | 4.28'N | 5.69'N | 6.70'N | 7.30'N | 23.71' | 2.50' | |
| 16 | 2.00'S | 1.80'S | 1.20'S | 0.19'S | 1.22'N | 3.00'N | 4.78'N | 6.19'N | 7.20'N | 7.80'N | 23.46' | 3.50' | |
| 17 | 1.50'S | 1.30'S | 0.70'S | 0.31'N | 1.72'N | 3.50'N | 5.28'N | 6.69'N | 7.70'N | 8.30'N | 24.48' | 3.50' | |
| 18 | 1.00'S | 0.80'S | 0.20'S | 0.81'N | 2.22'N | 4.00'N | 5.78'N | 7.19'N | 8.20'N | 8.80'N | 25.44' | 3.50' | |
| 19 | 0.50'S | 0.30'S | 0.30'N | 1.31'N | 2.72'N | 4.50'N | 6.28'N | 7.69'N | 8.70'N | 9.30'N | 26.34' | 3.50' | |
| 20 | 0.00'S | 0.20'N | 0.80'N | 1.81'N | 3.22'N | 5.00'N | 6.78'N | 8.19'N | 9.20'N | 9.80'N | 26.72' | 4.00' | |
| 21 | 0.50'N | 0.70'N | 1.30'N | 2.31'N | 3.72'N | 5.50'N | 7.28'N | 8.69'N | 9.70'N | 10.30'N | 27.57' | 4.00' | |
| 22 | 1.00'N | 1.20'N | 1.80'N | 2.81'N | 4.22'N | 6.00'N | 7.78'N | 9.19'N | 10.20'N | 10.80'N | 28.39' | 4.00' | |
| 23 | 1.50'N | 1.70'N | 2.30'N | 3.31'N | 4.72'N | 6.50'N | 8.28'N | 9.69'N | 10.70'N | 11.30'N | 29.17' | 4.00' | |
| 24 | 2.00'N | 2.30'N | 2.80'N | 3.81'N | 5.22'N | 7.00'N | 8.78'N | 10.19'N | 11.20'N | 11.80'N | 29.92' | 4.00' | |

N = NORTH OF CENTERLINE
S = SOUTH OF CENTERLINE

CURVE DATA C3 B C4 FOR 7' A = 14'

| A | R | T | L | M | N |
|----|-----------|-----|--------|--------|--------|
| 7 | 18°22'52" | 50' | 8.09' | 16.04' | 16.45' |
| 8 | 20°09'11" | | 8.89' | 17.59' | 17.88' |
| 9 | 21°47'12" | | 9.62' | 19.01' | 19.19' |
| 10 | 23°18'41" | | 10.31' | 20.34' | 20.39' |
| 11 | 24°44'50" | | 10.97' | 21.60' | 21.51' |
| 12 | 26°06'32" | | 11.59' | 22.78' | 22.56' |
| 13 | 27°24'27" | | 12.19' | 23.92' | 23.56' |
| 14 | 28°38'28" | | 12.77' | 25.01' | 24.68' |

CURVE DATA C1 C2
Δ = 11°28'40"
R = 250'
T = 25.13'
L = 50.08'

CURVE DATA C3 & C4 FOR 12' B = 24'

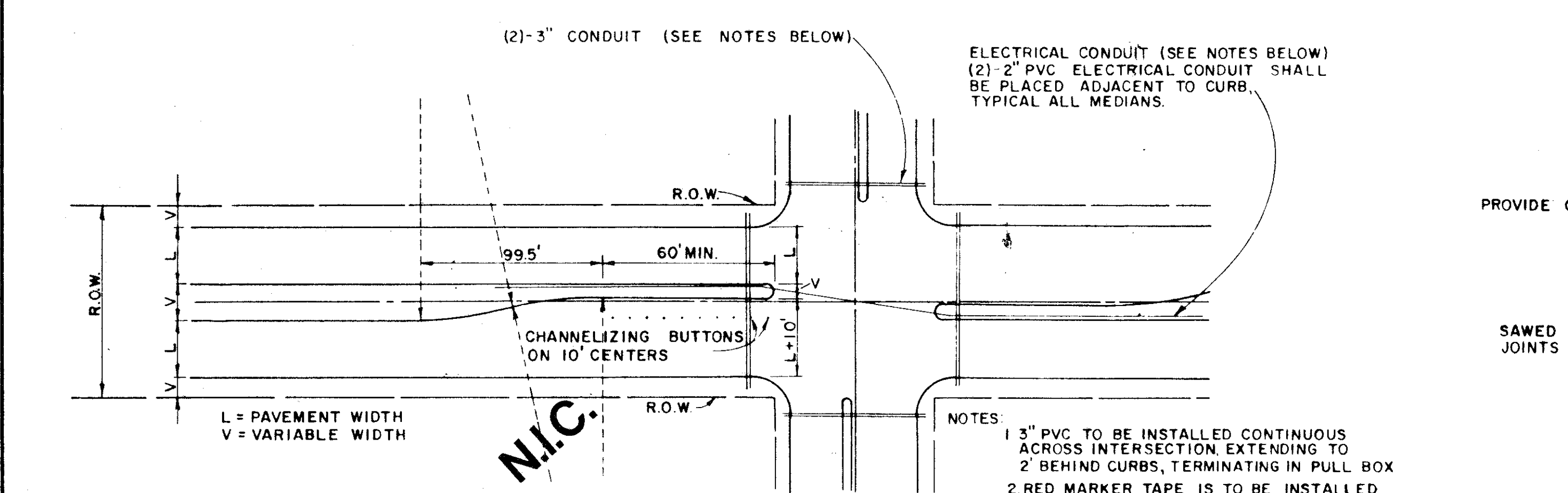
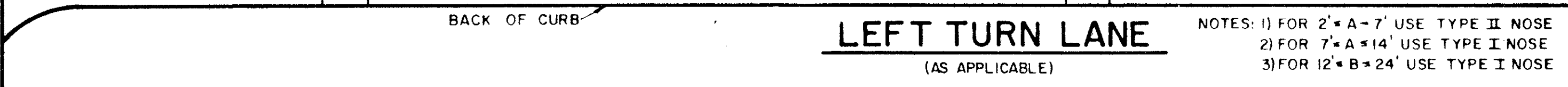
| B | Δ | R | T | L |
|----|-----------|--------|--------|--------|
| 12 | 26°06'32" | 50.00' | 11.59' | 22.78' |
| 13 | 27°24'27" | | 12.19' | 23.92' |
| 14 | 28°38'28" | | 12.77' | 25.01' |
| 15 | 29°48'51" | | 13.33' | 26.05' |
| 16 | 30°54'53" | | 13.87' | 27.05' |
| 17 | 31°56'44" | | 14.39' | 28.01' |
| 18 | 32°54'26" | | 14.89' | 28.94' |
| 19 | 33°48'08" | | 15.37' | 29.84' |
| 20 | 34°38'05" | | 15.83' | 30.71' |

CURVE DATA C5 FOR 12' B = 24'

| B | Δ | R | T | L |
|----|------------|-------|-------|-------|
| 12 | 127°47'32" | 1.00' | 2.04' | 2.23' |
| 13 | 125°43'38" | 1.00' | 1.93' | 2.19' |
| 14 | 123°43'08" | 2.50' | 5.33' | 5.66' |
| 15 | 126°57'31" | 2.50' | 5.01' | 5.54' |
| 16 | 129°09'33" | 3.50' | 7.36' | 7.89' |
| 17 | 126°21'44" | 3.50' | 6.92' | 7.72' |
| 18 | 123°41'38" | 3.50' | 6.54' | 7.56' |
| 19 | 120°52'03" | 3.50' | 6.17' | 7.38' |
| 20 | 120°48'56" | 4.00' | 7.04' | 8.43' |
| 21 | 118°21'08" | 4.00' | 6.70' | 8.26' |
| 22 | 115°57'07" | 4.00' | 6.40' | 8.10' |
| 23 | 113°38'22" | 4.00' | 6.12' | 7.93' |
| 24 | 111°23'48" | 4.00' | 5.86' | 7.78' |

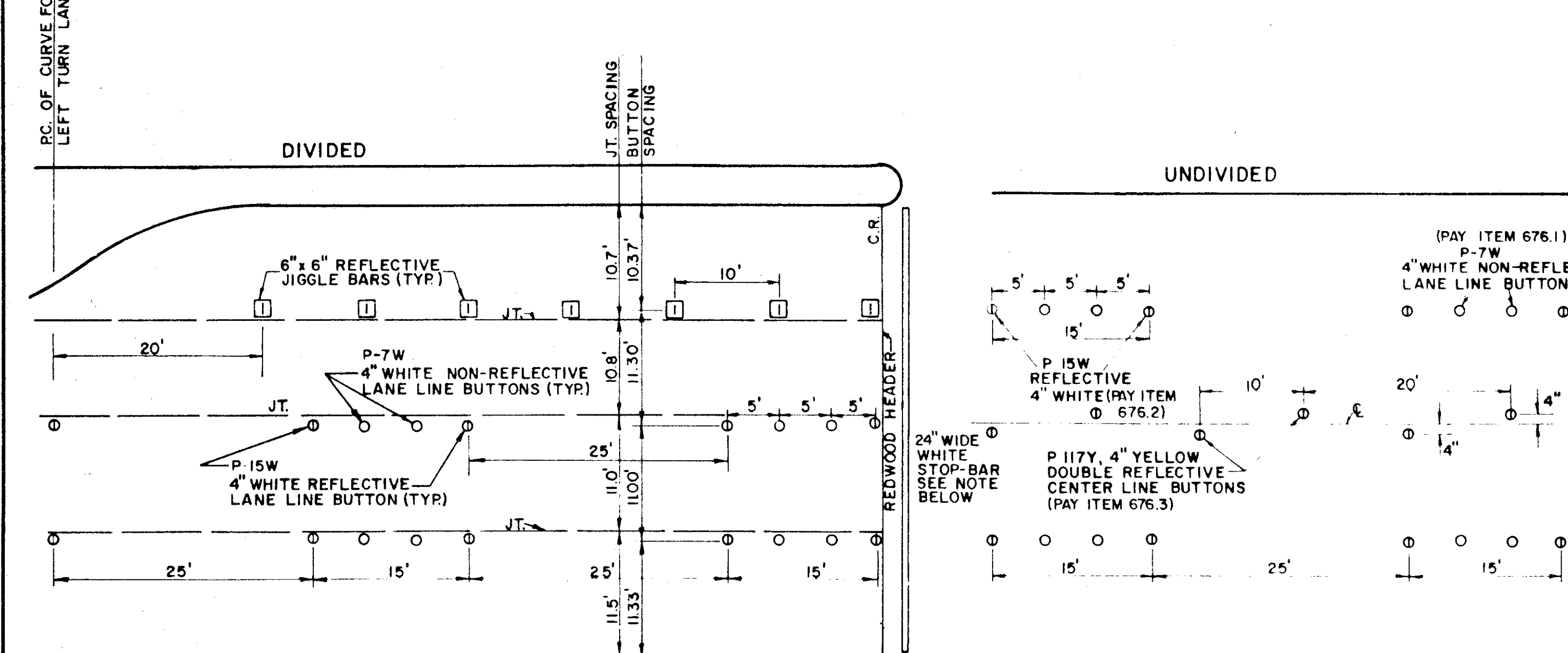
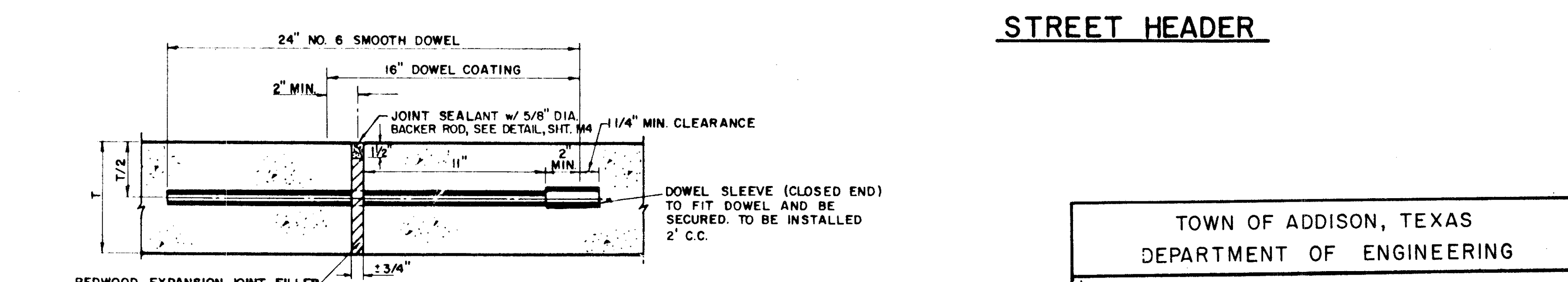
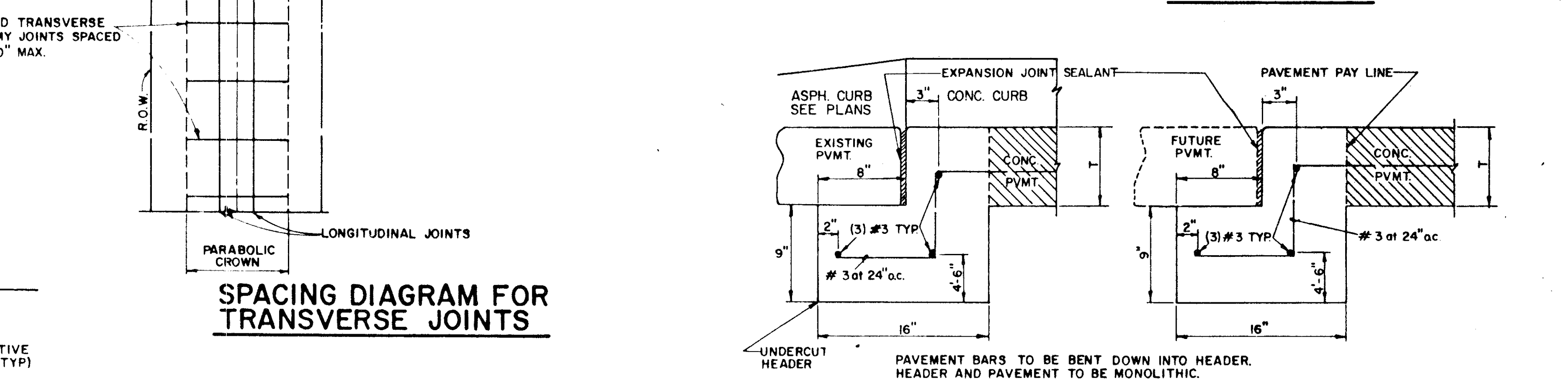
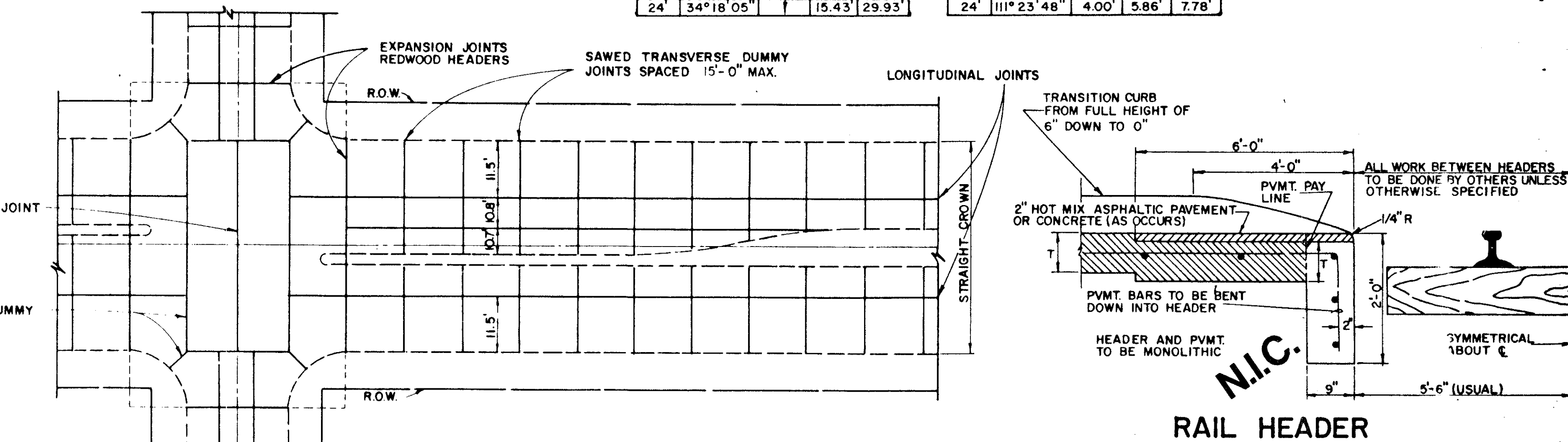
CURVE DATA C5 FOR 7' A = 14'

| A | R | T | L |
|----|------------|-------|-------|
| 7 | 143°14'15" | 1.00' | 3.01' |
| 8 | 139°41'38" | 1.00' | 2.72' |
| 9 | 136°25'35" | 1.00' | 2.50' |
| 10 | 133°22'38" | 1.00' | 2.32' |
| 11 | 130°30'20" | 1.00' | 2.17' |
| 12 | 127°47'32" | 1.00' | 2.04' |
| 13 | 125°12'46" | 1.00' | 1.93' |
| 14 | 123°43'08" | 2.50' | 5.33' |



CONDUIT
FOR EXACT LOCATIONS, THIS PROJECT-SEE PLANS

NOTES:
1. 3" PVC TO BE INSTALLED CONTINUOUS ACROSS INTERSECTION EXTENDING TO 2' BEHIND CURBS, TERMINATING IN PULL BOX
2. RED MARKER TAPE IS TO BE INSTALLED ON THE ENDS OF THE CONDUIT.
3. THE EXACT LOCATIONS WHERE THE CONDUIT CROSSES UNDER THE PAVING ARE TO BE CHISELED WITH AN "X" AND PAINTED WITH RED PAINT, ON THE CURB OR PAVING.
4. A NYLON CORD SHALL BE PLACED IN ALL CONDUIT UNDER PAVEMENT. THIS CORD SHALL EXTEND A MINIMUM OF 1' FROM THE END OF THE CONDUIT.



STANDARD BUTTON LAYOUT
APPROACH TO DIVIDED ROADWAY INTERSECTION

NOTE: STOP-BAR TO BE STAMARK 3M BRAND NO. N360

STANDARD BUTTON LAYOUT
TWO WAY UNDIVIDED ROADWAY w/ DOUBLE YELLOW CENTER LINE

NOTE: BUTTONS TO BE INSTALLED OFF OF JOINTS, WITH MACHINE IMPLEMENTED 2 PART COMPONENT EPOXY

BACK OF CURB

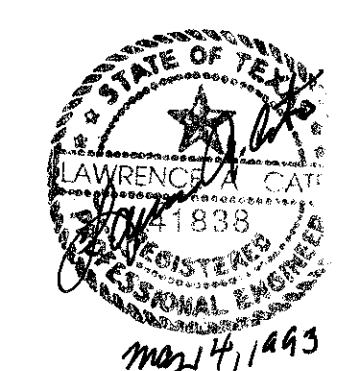
TOWN OF ADDISON, TEXAS
DEPARTMENT OF ENGINEERING

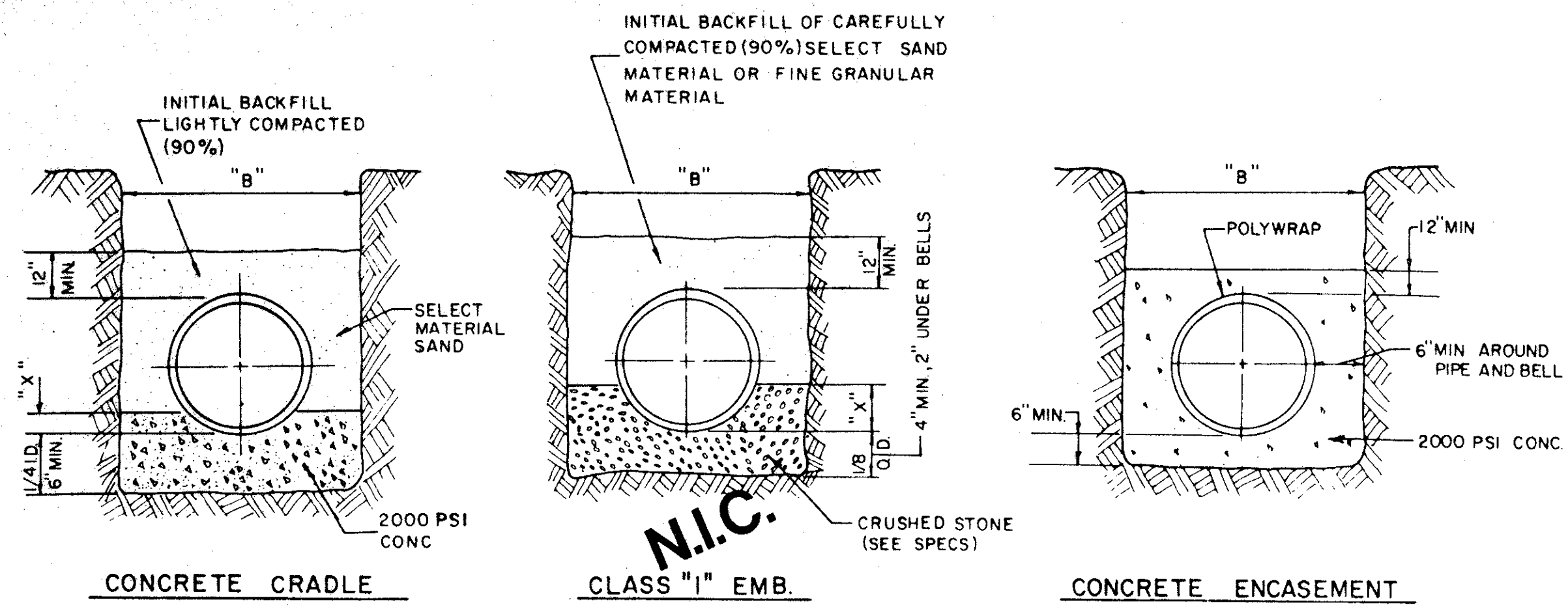
STANDARD CONSTRUCTION DETAILS
PAVING

TURN LANES & JOINTS

NOTE: DOWELS AND REINFORCING BARS SHALL BE SUPPORTED BY AN APPROVED DEVICE.

DESIGNED - _____ DRAWN - _____ DATE - _____ JOB NO. - _____
APPROVED - _____ CHECKED - _____ SCALE - _____ SHEET SD-4

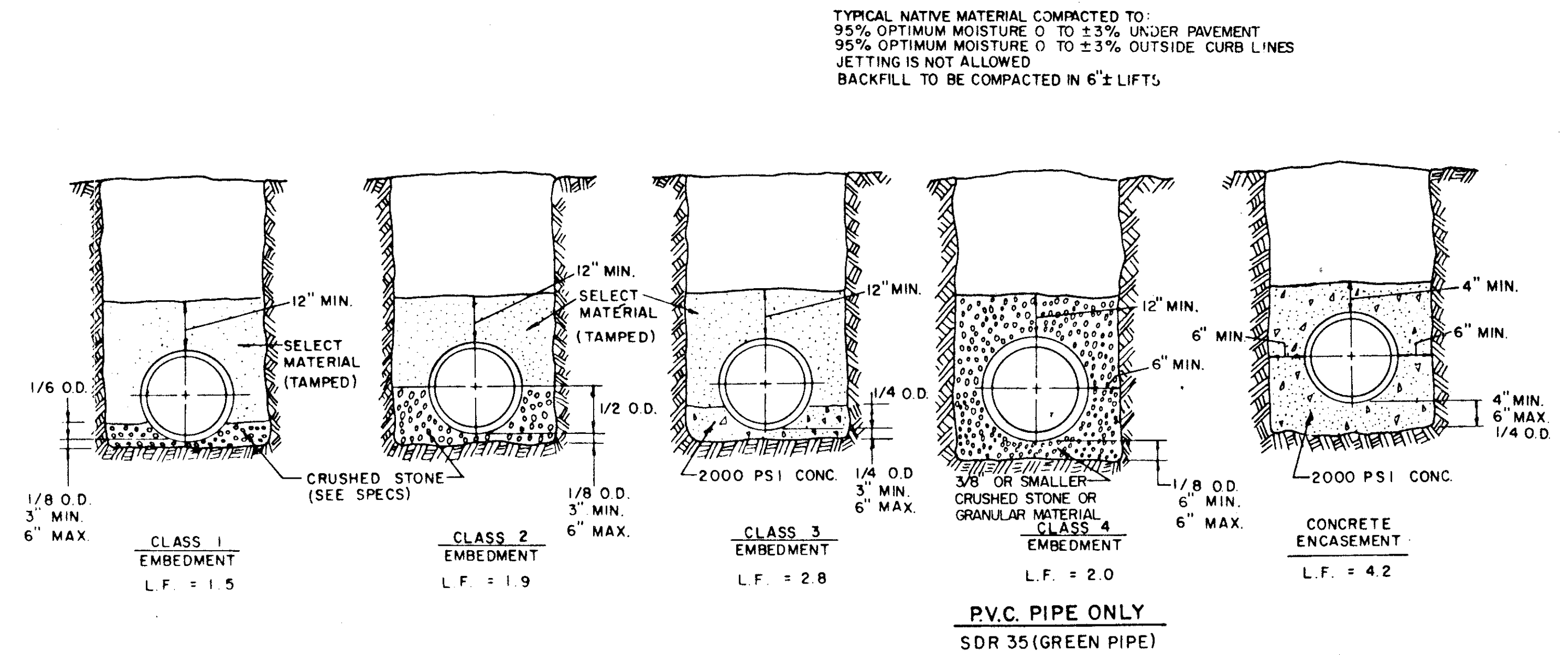




EMBEDMENT DETAILS FOR RCCP WATERLINE

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 "CL" EMBEDMENT |
|---|---------------------------------|------------------------|--|---------------|----------------|----------------------------------|
| | | | | FOR EMBEDMENT | FOR ENCASEMENT | |
| N.I.C. REINFORCED CONCRETE CYLINDER PIPE | | | | | | |
| 14" | 17.25" | 2.53' | 34" | 6.91 | 16.07 | 5.16 |
| 16" | 19.25" | 2.84' | 36" | 7.50 | 17.76 | 5.64 |
| 18" | 21.75" | 3.19' | 38" | 8.11 | 19.52 | 6.16 |
| 24" | 27.75" | 4.06' | 44" | 9.97 | 24.90 | 9.28 |



EMBEDMENT DETAILS FOR SANITARY SEWER

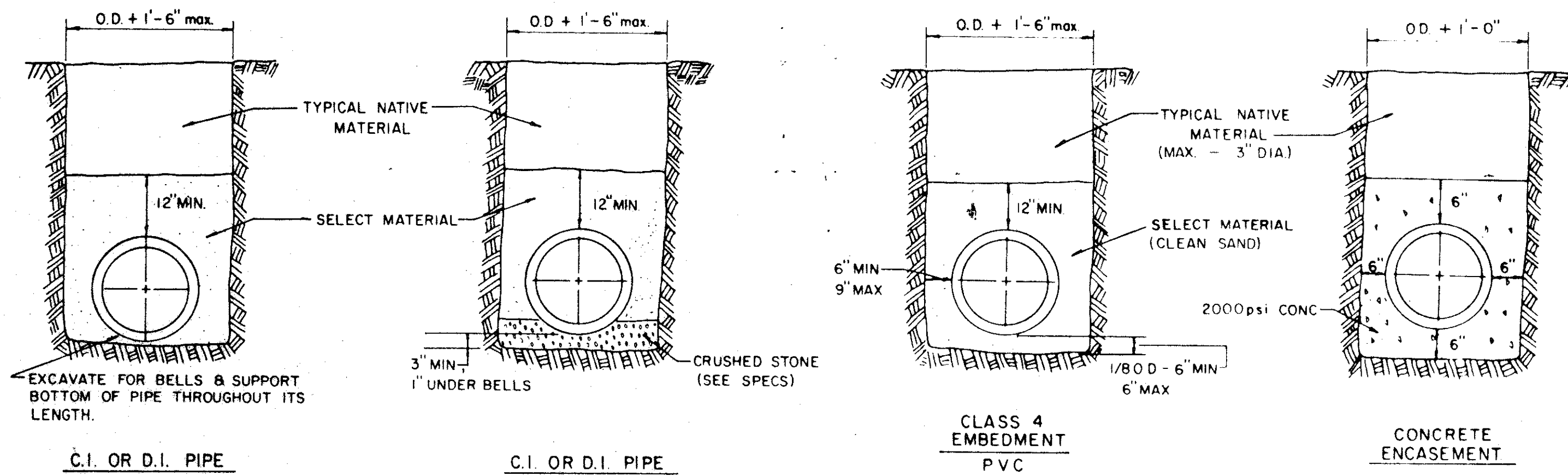
TABLE OF QUANTITIES OF 2000 PSI CONCRETE, GRAVEL OR CRUSHED STONE IN CUBIC YARDS PER 100 LINEAR FEET FOR EACH CLASS EMBEDMENT

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 |

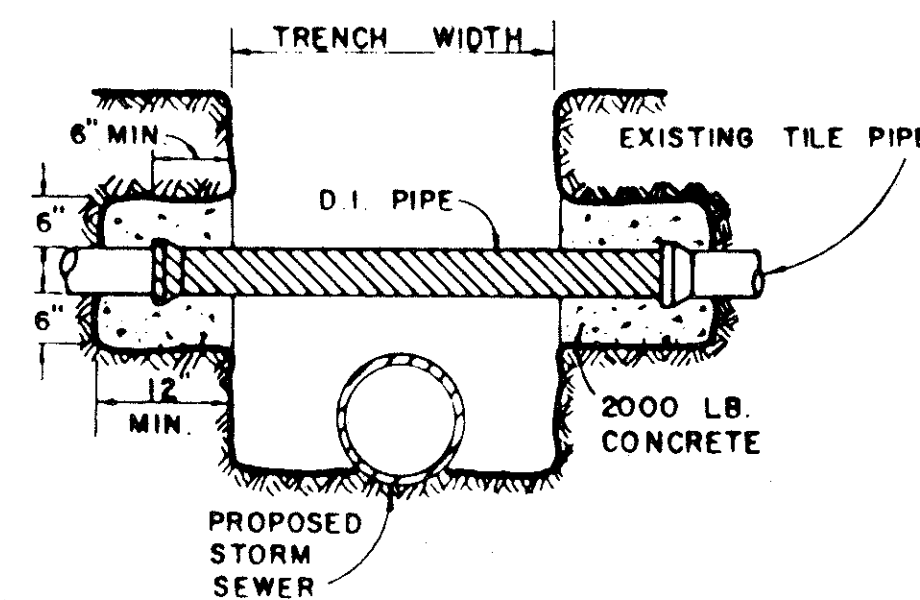
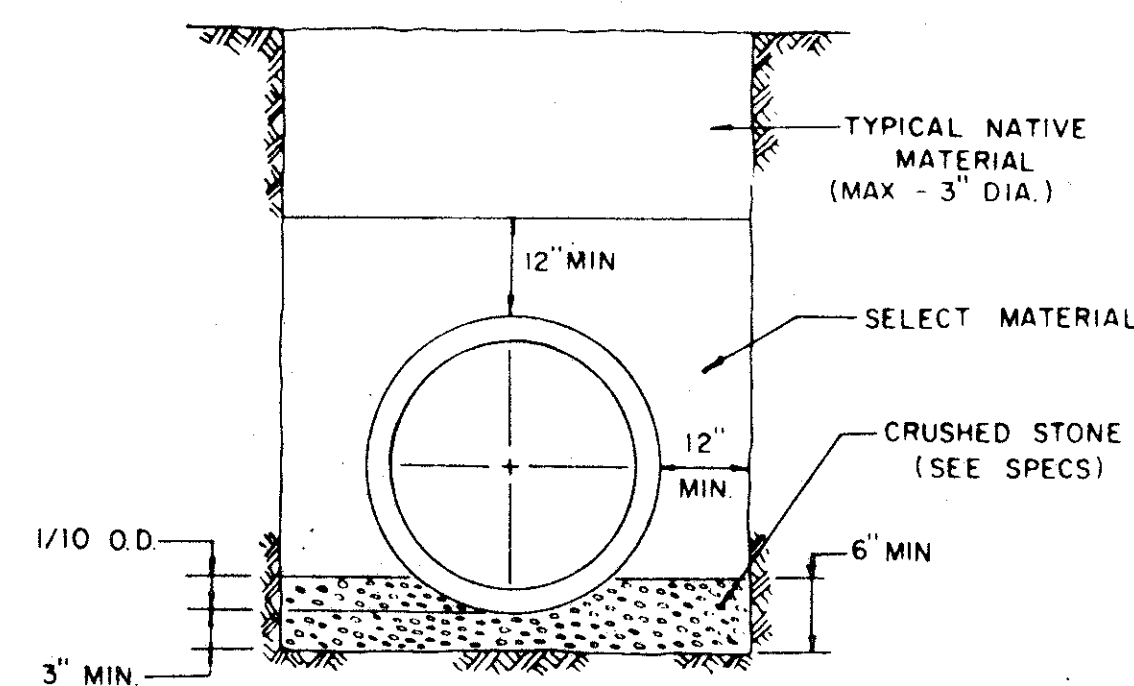
TABLE OF QUANTITIES PER 100 LINEAR FEET-PVC PIPE (IN CUBIC YARDS)

| 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 | 2.35 | 11.7 | 15.9 |
| 16 | 15.30 | 31 | 2.61 | 14.0 | 18.8 |
| 24 | | 36 | 3.0 | | |
| 30 | | 42 | 3.5 | | |

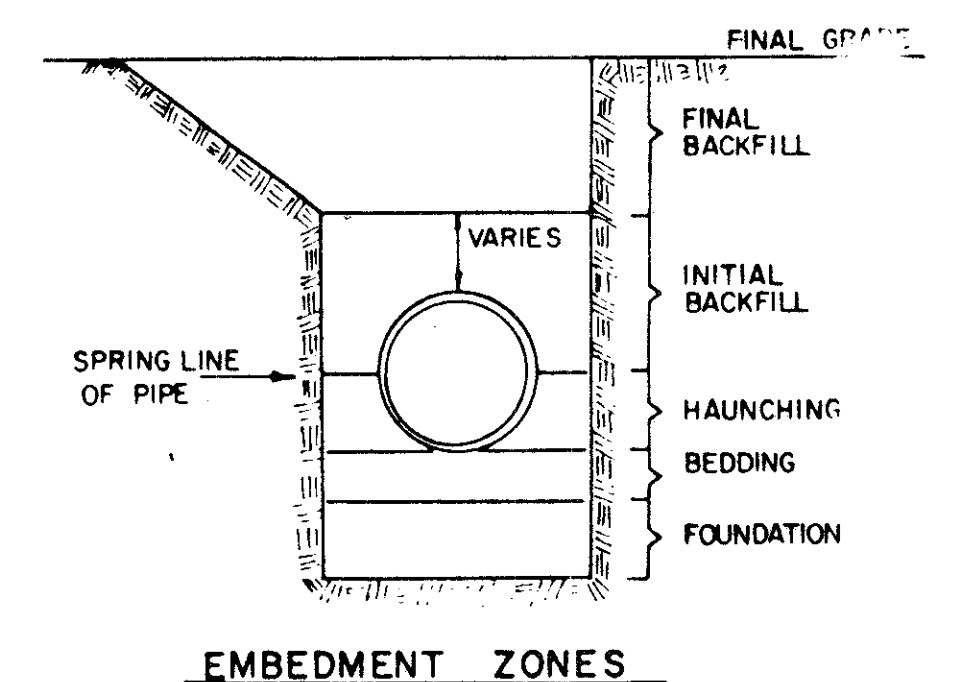


EMBEDMENT DETAILS FOR WATER MAIN

EMBEDMENT DETAIL FOR STORM SEWER



DETAIL OF UTILITY SUPPORT

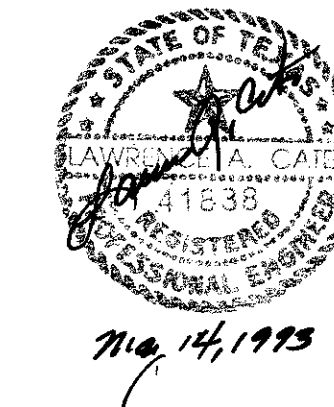


TOWN OF ADDISON, TEXAS
DEPARTMENT OF ENGINEERING

STANDARD CONSTRUCTION DETAILS

EMBEDMENT DETAILS

| | | | |
|------------|-----------|---------|------------|
| Designed - | Drawn - | Date - | Job No. - |
| Approved - | Checked - | Scale - | Sheet SD-5 |



2020-2019-012-012
CPI 2/20/2019