

CONSTRUCTION PLANS FOR TRINITY STREET PAVING AND DRAINAGE IMPROVEMENTS

COUNCIL AND STAFF

TED REYNOLDS
MAYOR

KYLE BOLES
MAYOR PRO TEM

SONNY RUSSELL
SINGLE MEMBER DISTRICT NO. 1

BOB FORCE
SINGLE MEMBER DISTRICT NO. 3

JOHN WARREN
SINGLE MEMBER DISTRICT NO. 4

CHESTER NOLEN, C.P.M.
CITY MANAGER

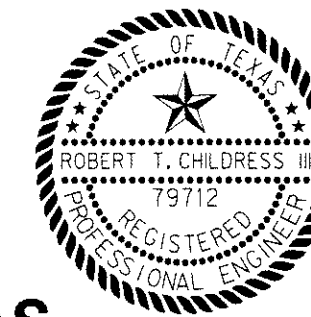
RUSSELL SCHREIBER, P.E.
PUBLIC WORKS DIRECTOR



City of Cleburne

2007

JOHNSON COUNTY, TEXAS



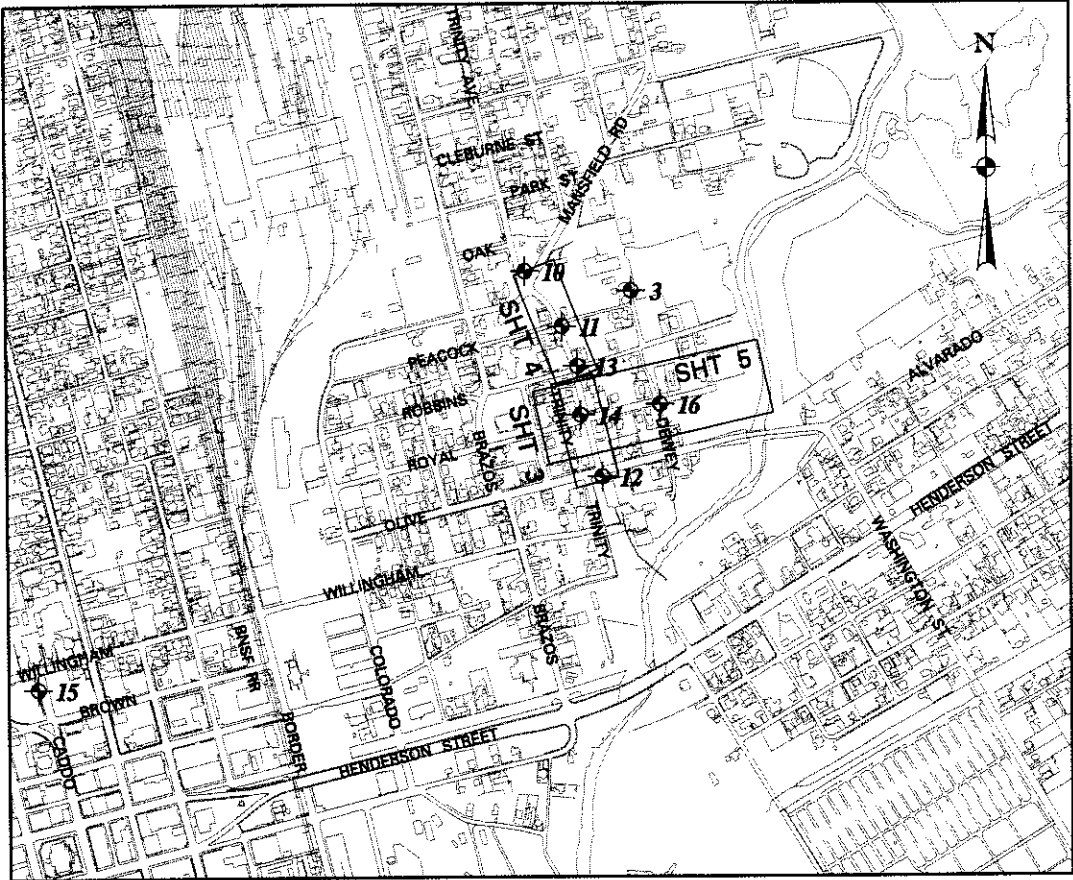
PREPARED BY:

CE CHILDRESS ENGINEERS
ENGINEERS & CONSULTANTS

211 N. RIDGEWAY DRIVE
CLEBURNE, TEXAS 76033

Robert T. Childress III
ROBERT T. CHILDRESS III, P. E.

12/31/07
/DATE



SHEET LOCATION



LEGEND:

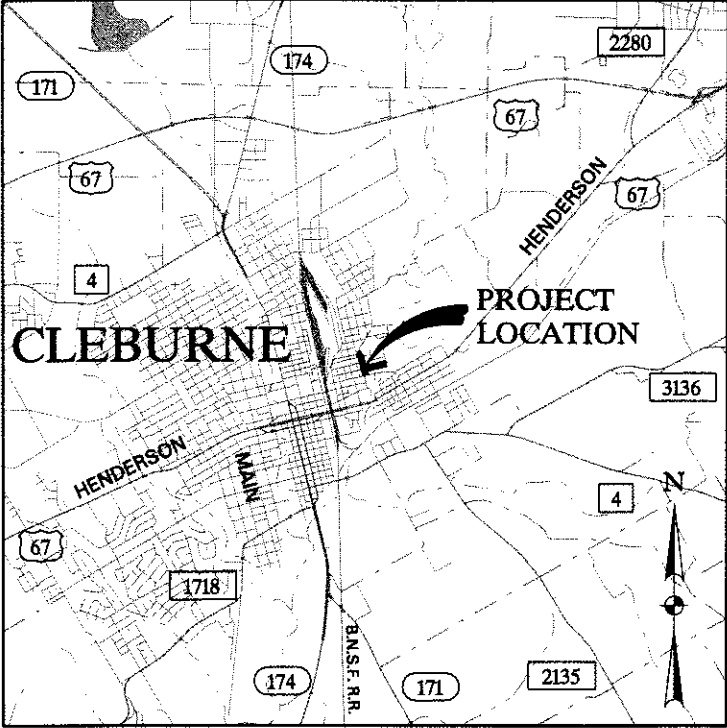
5 SURVEY CONTROL POINT

SURVEY CONTROL POINTS

PNT.#	NORTHING	EASTING	ELEVATION	DESCRIPTION
3	6814004.15	2315448.94	760.92	1/2" CAPPED IRON ROD
10	6814106.48	2314898.06	765.81	1/2" CAPPED IRON ROD
11	6813822.36	2315089.96	763.92	1/2" CAPPED IRON ROD
12	6813046.39	2315296.40	758.50	1/2" CAPPED IRON ROD
13	6813616.25	2315169.00	762.22	COTTON SPINDLE
14	6813364.59	2315185.18	762.64	1/2" CAPPED IRON ROD
15	6811958.00	2312346.98	770.11	CONCRETE MONUMENT
16	6813418.77	2315596.77	759.84	COTTON SPINDLE

GENERAL NOTES:

- THE EXISTING UTILITIES ARE SHOWN FOR REFERENCE ONLY. THEIR LOCATIONS ARE APPROXIMATE AND NOT TO BE CONSIDERED AS ACCURATE NOR ALL INCLUSIVE. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL PREPARE A VIDEO AND TAKE PHOTOGRAPHS OF THE CONSTRUCTION AREA PRIOR TO BEGINNING CONSTRUCTION TO DOCUMENT EXISTING CONDITIONS AND HE SHALL PROVIDE COPIES TO THE ENGINEER AND THE CITY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGED EXISTING UTILITIES AT HIS EXPENSE.
- CONSTRUCTION STAKING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTROL POINTS ARE FURNISHED FOR THE CONTRACTOR'S USE TO STAKE THE PROPOSED IMPROVEMENTS. HE SHALL BE RESPONSIBLE FOR PROTECTING THESE POINTS AND TRANSFERRING THEM TO AN AREA OUTSIDE OF THE CONSTRUCTION LIMITS IF NECESSARY.
- COORDINATES ARE PROVIDED FOR THE CONTRACTOR'S USE. HOWEVER, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD CHECK ALL LAYOUT STAKING AND NOTIFY THE ENGINEER IN THE EVENT OF ANY DISCREPANCY.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING A STORM WATER POLLUTION PREVENTION PLAN AND SUBMITTING ALL REQUIRED TIEDS DOCUMENTATION, INCLUDING N.O.I. AND N.O.T. FORMS, AND MEETING ALL REQUIREMENTS OF THE TIED REGULATIONS.
- THE CONTRACTOR SHALL STRIP AND STOCKPILE 6 INCHES OF TOP SOIL FROM THE CONSTRUCTION AREA PRIOR TO EXCAVATION. UPON COMPLETION OF THE STREET CONSTRUCTION, THE TOP SOIL SHALL BE SPREAD IN A WORKMANLIKE MANNER.
- THE CONTRACTOR SHALL REMOVE ALL EXISTING PAVEMENT TO A DEPTH OF APPROXIMATELY 6". REMOVED PAVEMENT SHALL BE DISPOSED OF OFF SITE.
- LARGE ROCKS AND OTHER CONSTRUCTION DEBRIS SHALL BE HAULED OFF SITE AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL RETURN ALL EXCAVATED AREAS, FENCES, SIDEWALKS, UTILITIES, PAVED AREAS, ETC. TO THEIR PRECONSTRUCTION CONDITION OR BETTER. THIS WORK SHALL BE CONSIDERED INCIDENTAL AND NOT A SEPARATE BID ITEM UNLESS OTHERWISE SHOWN ON THE BID SCHEDULE.
- THE CONTRACTOR SHALL MAINTAIN ADEQUATE DRAINAGE AT ALL TIMES AND SHALL BE RESPONSIBLE FOR ALL STORM WATER CONTROL, PUMPING, AND DEWATERING NECESSARY FOR THE CONSTRUCTION OF THIS PROJECT. THIS WORK SHALL BE CONSIDERED INCIDENTAL AND NOT A SEPARATE PAY ITEM.
- ALL DIMENSIONS TO BACK OF CURB UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL CONTACT THE CITY OF CLEBURNE A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL MAINTAIN A 2' SEPARATION DISTANCE BETWEEN WATER LINES AND STORM DRAINS, UNLESS OTHERWISE SHOWN ON THE PLANS.
- WATER SHALL NOT BE TAKEN FROM THE CITY'S MAIN WITHOUT PRIOR KNOWLEDGE AND APPROVAL FROM THE CITY.
- THE CONTRACTOR SHALL BACKFILL AND COMPACT THE TOP 8" OF ALL UTILITY DITCHES WITH FLEXIBLE BASE MATERIAL OR 1" CRUSHED STONE AS TEMPORARY PAVEMENT IN AREAS SCHEDULED TO BE REPAVED. AREAS NOT SCHEDULED TO BE REPAVED SHALL BE REPAVED ACCORDING TO THE PLANS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL HOUSES AND BUSINESSES EACH NIGHT AND SHALL FACILITATE AND DIRECT TRAFFIC DURING CONSTRUCTION ACTIVITIES.
- ALL VALVE BOXES, MANHOLES, CLEAN OUTS OR OTHER APPURTENANCES REMAINING WITHIN THE CONSTRUCTION AREA SHALL BE ADJUSTED FLUSH WITH THE PROPOSED GRADE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SEEDING AND ESTABLISHING GRASS IN THE AREAS OF DISTURBED SOIL. HYDROMULCHING OR SOODING MAY BE SUBSTITUTED FOR SEEDING AT THE CONTRACTOR'S OPTION.
- THE CONTRACTOR SHALL INSTALL H-BRACING PRIOR TO CUTTING ANY FENCE. ALL FENCES AND GATES SHALL BE CLOSED DURING PERIODS WHEN CONSTRUCTION ACTIVITIES ARE NOT IN PROGRESS. THE CONTRACTOR SHALL ERECT TEMPORARY FENCING IF NECESSARY AND EXERCISE EXTREME CARE TO INSURE THAT NO LIVESTOCK ARE ALLOWED TO ESCAPE. PERMANENT FENCING SHALL BE INSTALLED AS SHOWN ON THESE PLANS.
- IN THE EVENT OF A DISCREPANCY BETWEEN THE PLANS AND SPECIFICATIONS, THE PLANS SHALL GOVERN.
- THE CONTRACTOR SHALL MINIMIZE THE DAMAGE TO AND ENDEAVOR TO PROTECT ALL TREES THAT ARE NOT IN THE IMMEDIATE CONSTRUCTION ZONE. NO TREES SHALL BE REMOVED OUTSIDE OF THE RIGHT OF WAY UNLESS, IN THE OPINION OF THE ENGINEER, REMOVAL IS NECESSARY TO COMPLETE THE PROJECT. TREES SHALL BE TRIMMED AS NECESSARY PRIOR TO CONSTRUCTION.



PROJECT VICINITY MAP



SHEET INDEX

NO.	DESCRIPTION
1	PROJECT LOCATION MAP /GENERAL NOTES /SURVEY CONTROL POINTS /SHEET INDEX
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3	TRINITY STREET PLAN / PROFILE STA. 0+00 TO 5+00
4	TRINITY STREET PLAN / PROFILE STA. 5+00 TO 10+42.89
5	STORM DRAIN "A" PLAN / PROFILE
6	EROSION CONTROL PLAN AND DETAILS
7	PAVING DETAILS
8	DRAINAGE DETAILS
9	MODIFIED SLOPED END DETAIL



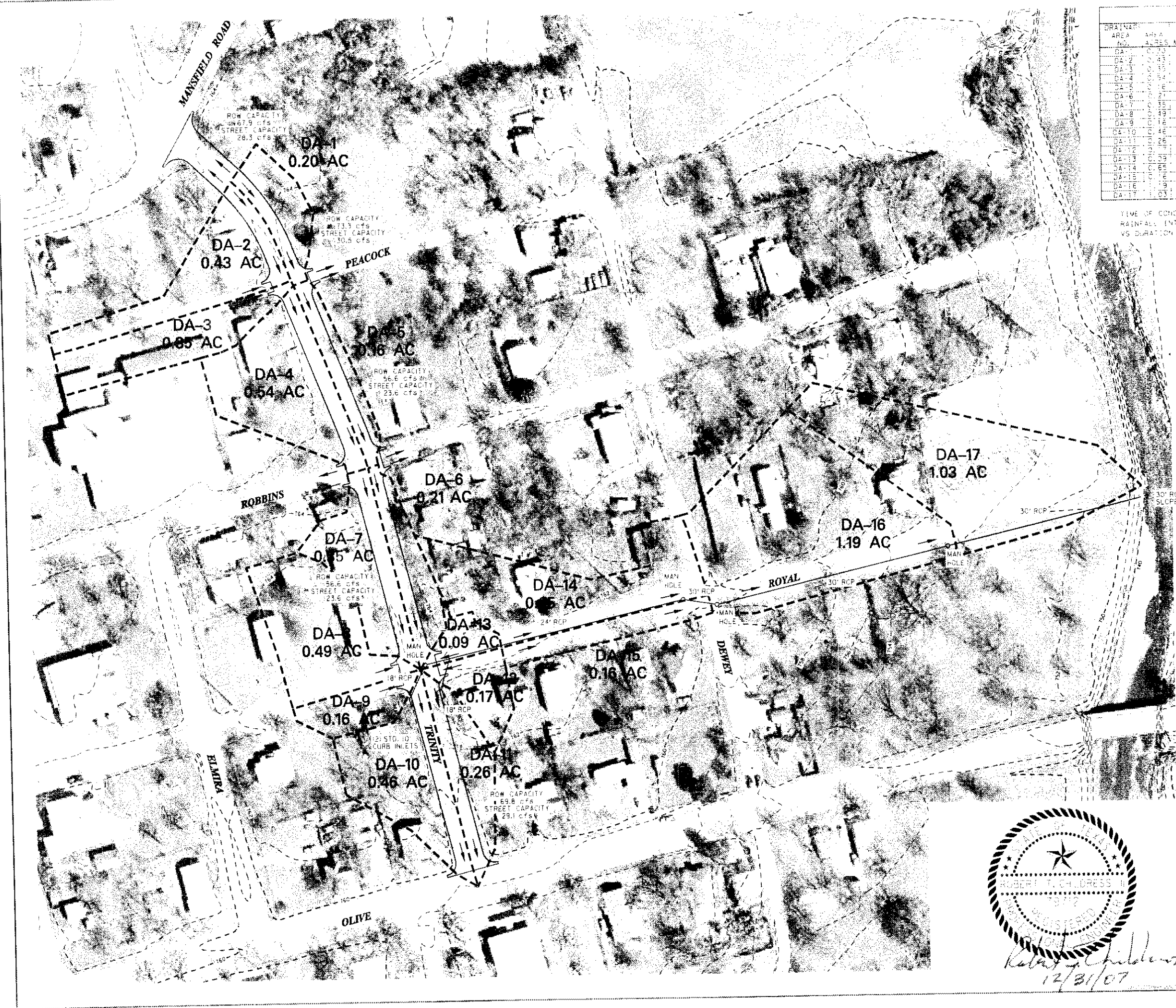
CITY OF CLEBURNE

TRINITY STREET PAVING
AND DRAINAGE IMPROVEMENTS

PROJECT LOCATION MAP /GENERAL NOTES
/SURVEY CONTROL POINTS /SHEET INDEX

CHILDRESS ENGINEERS
ENGINEERS & CONSULTANTS
281 N. RICHMOND DRIVE
CLEBURNE, TEXAS 76033

DESIGNED BY: JJB	REV. BY: DATE SYMBOL	DATE: DECEMBER 2007
DRAWN BY: JDL		JOB NO: 07030
CHECKED BY: RTC		SHEET NO. 1 OF 9



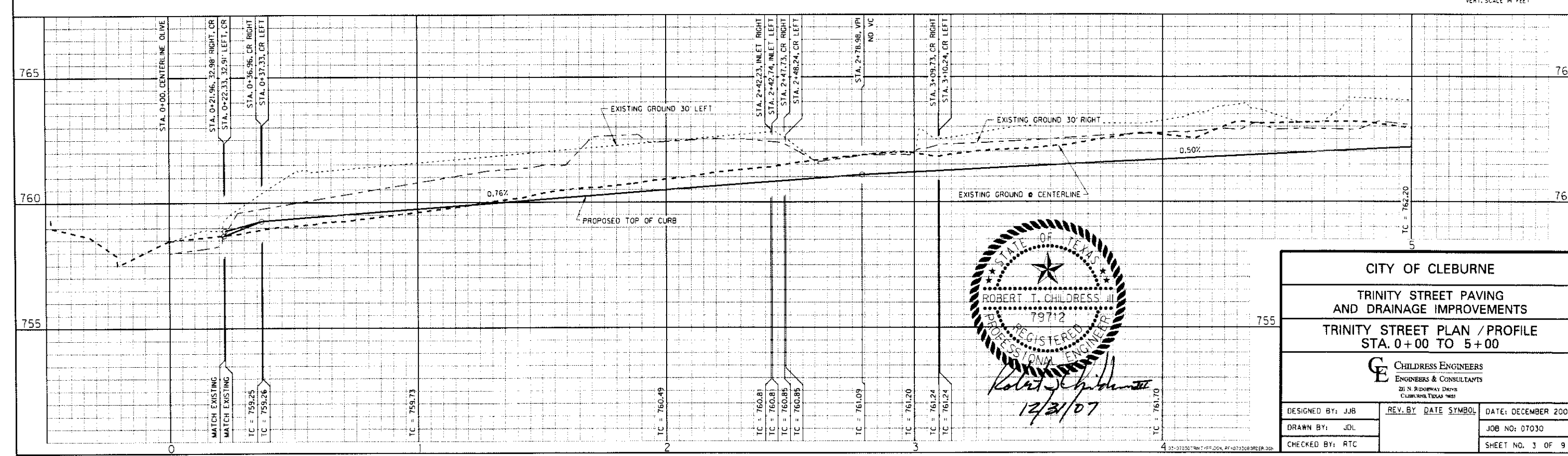
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DRAINAGE AREA	AREA	IC	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	OUTLET
DA-1	0.20 AC	1.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	STORM DRAIN
DA-2	0.43 AC	1.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	STORM DRAIN
DA-3	0.85 AC	1.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	STORM DRAIN
DA-4	0.54 AC	1.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	STORM DRAIN
DA-5	0.16 AC	1.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	STORM DRAIN
DA-6	0.21 AC	1.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	STORM DRAIN
DA-7	0.15 AC	1.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	STORM DRAIN
DA-8	0.49 AC	1.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	STORM DRAIN
DA-9	0.16 AC	1.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	STORM DRAIN
DA-10	0.46 AC	1.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	STORM DRAIN
DA-11	0.17 AC	1.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	STORM DRAIN
DA-12	0.26 AC	1.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	STORM DRAIN
DA-13	0.09 AC	1.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	STORM DRAIN
DA-14	0.05 AC	1.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	STORM DRAIN
DA-15	0.18 AC	1.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	STORM DRAIN
DA-16	1.19 AC	1.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	STORM DRAIN
DA-17	1.03 AC	1.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	STORM DRAIN

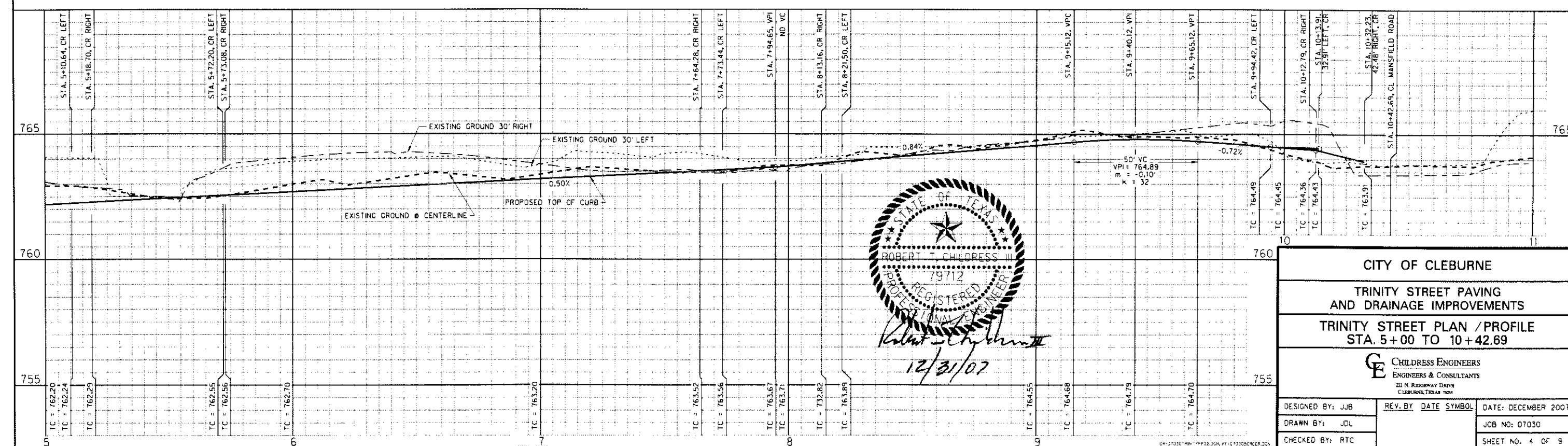
TIME OF CONCENTRATION TAKEN FROM CITY OF CLEBURNE SUBDIVISION ORDINANCE.
RAINFALL INTENSITIES TAKEN FROM THE CITY OF CLEBURNE RAINFALL INTENSITY VS DURATION & FREQUENCY CURVES.

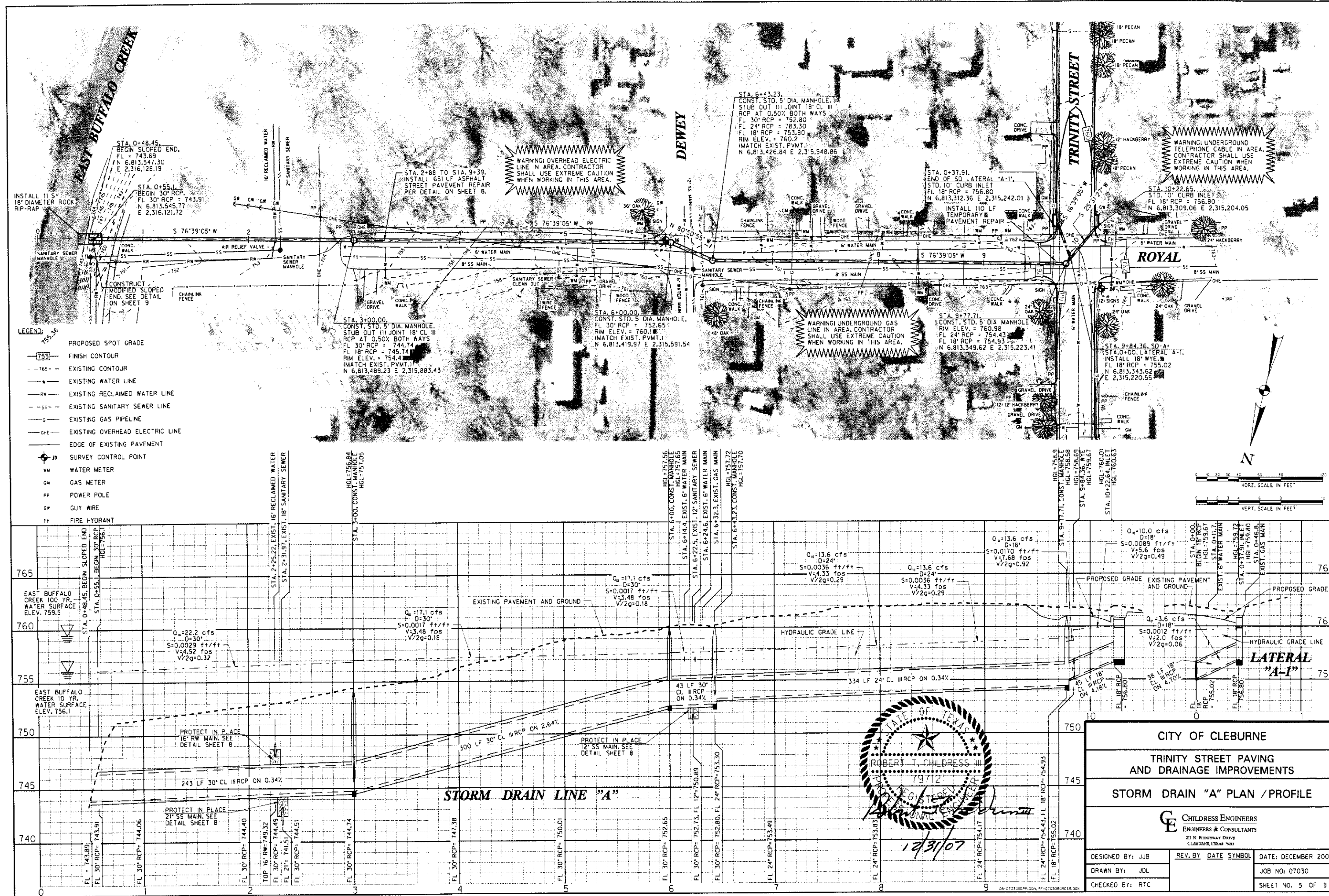
- LEGEND
- EXISTING CONTOUR
 - FLOW ARROW
 - DRAINAGE AREA DIVIDES

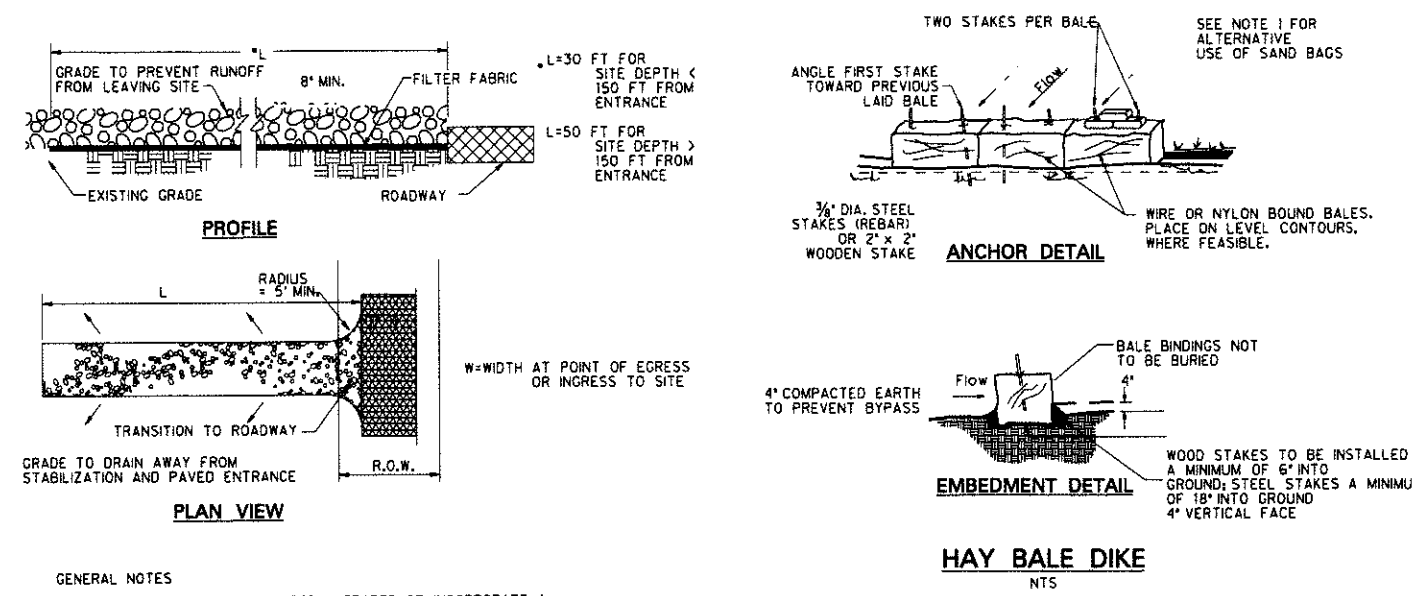
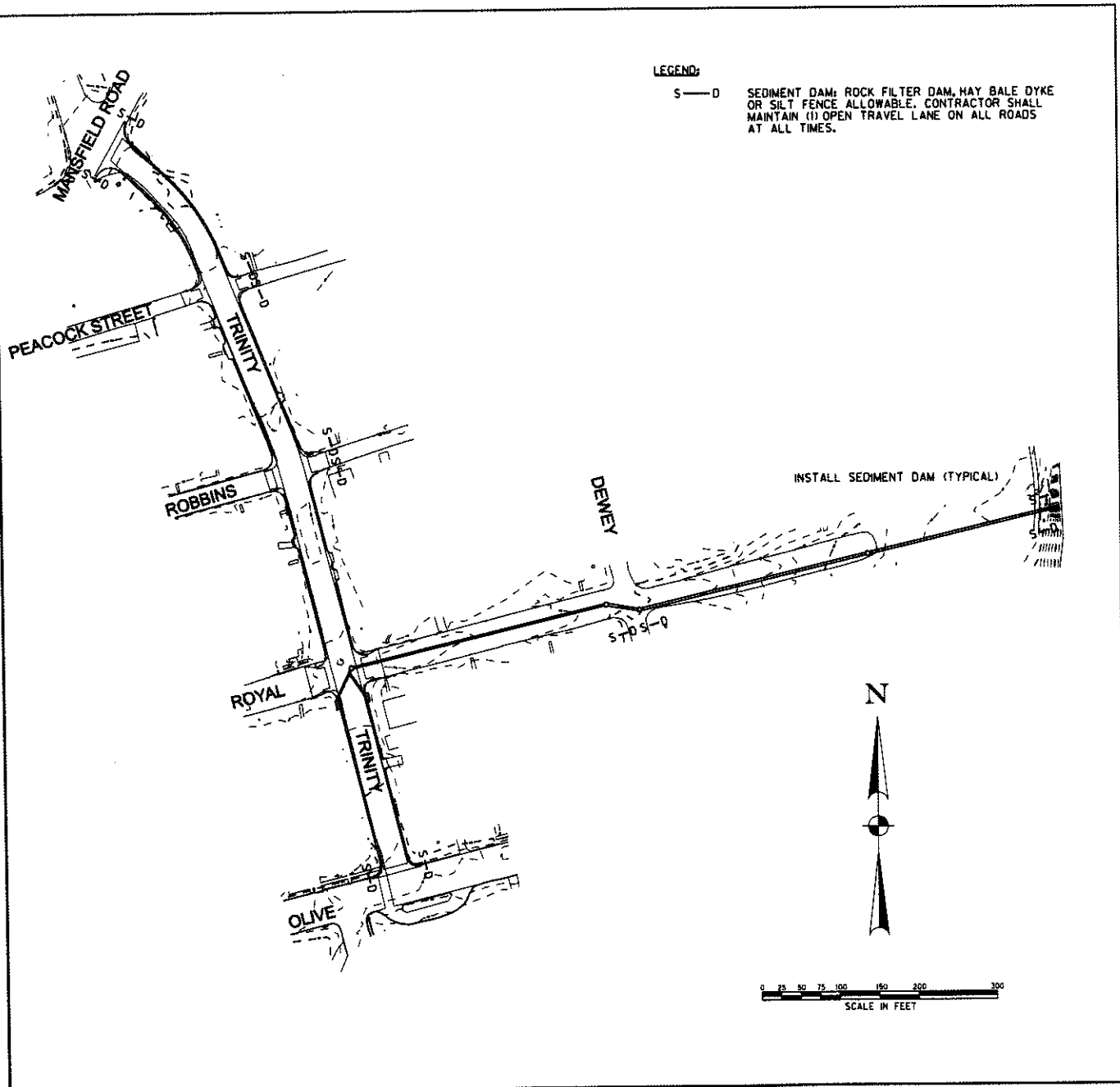


CITY OF CLEBURNE		
TRINITY STREET PAVING AND DRAINAGE IMPROVEMENTS		
DRAINAGE AREA MAP		
CHILDRESS ENGINEERS ENGINEERS & CONSULTANTS 301 N. BIRMINGHAM DRIVE CLEBURNE, TEXAS 76033		
DESIGNED BY: JHB	REV. BY: DATE: SYMBOL:	DATE: DECEMBER 2007
DRAWN BY: JHB		JOB NO: 07030
CHECKED BY: RTL		SHEET NO. 2 OF 9









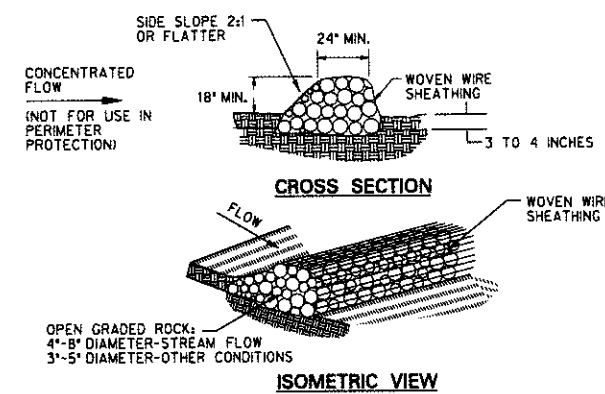
GENERAL NOTES:

1. THE ENTRANCE MUST BE PROPERLY GRADED OR INCORPORATE A DRAINAGE SWALE TO PREVENT RUNOFF FROM LEAVING THE CONSTRUCTION SITE.

2. STONE SHALL BE 3 TO 5 INCH DIAMETER CRUSHED ROCK OR ACCEPTABLE CRUSHED PORTLAND CEMENT CONCRETE

STABILIZED CONSTRUCTION ENTRANCE

NTS



GENERAL NOTES:

1. WOVEN WIRE SHEATHING SHALL HAVE MAXIMUM OPENING OF ONE (1) INCH AND A MINIMUM WIRE SIZE OF 20 GAUGE AND SHALL BE SECURED WITH SHOOT RINGS.

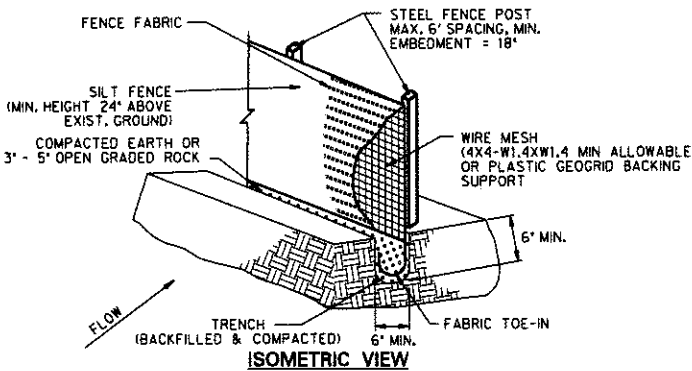
2. THE ROCK BERM SHALL BE INSPECTED WEEKLY OR AFTER EACH RAIN AND SHALL BE REPLACED WHEN THE STRUCTURE CEASES TO FUNCTION PROPERLY.

3. WHEN SILT REACHES A DEPTH EQUAL TO ONE-THIRD OF THE HEIGHT OF THE BERM OR ONE FOOT, WHICHEVER IS LESS, THE SILT SHALL BE REMOVED AND DISPOSED OF IN AN APPROVED MANNER.

4. WHEN THE SITE IS COMPLETELY STABILIZED, THE BERM AND ACCUMULATED SILT SHALL BE REMOVED AND DISPOSED OF IN AN APPROVED MANNER.

ROCK FILTER DAM DETAILS

NTS



GENERAL NOTES:

1. STEEL POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED WITH A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MINIMUM OF 18".

2. THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWNSLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW. WHERE FENCE CANNOT BE TRENCHED IN WITH FABRIC FLAP WITH WASHED GRAVEL ON UPHILL SIDE, AS NECESSARY, TO PREVENT FLOW UNDER FENCE.

3. THE TRENCH MUST BE A MINIMUM OF 6 INCHES DEEP AND 6 INCHES WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED.

4. SILT FENCE SHOULD BE SECURELY FASTENED TO EACH STEEL SUPPORT POST OR TO BACKING SUPPORT, WHICH IS IN TURN ATTACHED TO THE STEEL FENCE POST. FABRIC SHALL OVERLAP AT ABUTTING ENDS A MINIMUM OF 3 FEET AND SHALL BE JOINED SUCH THAT NO BYPASS OR LEAKAGE OCCURS.

5. INSPECTION SHALL BE MADE WEEKLY OR AFTER EACH RAINFALL. REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.

6. SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

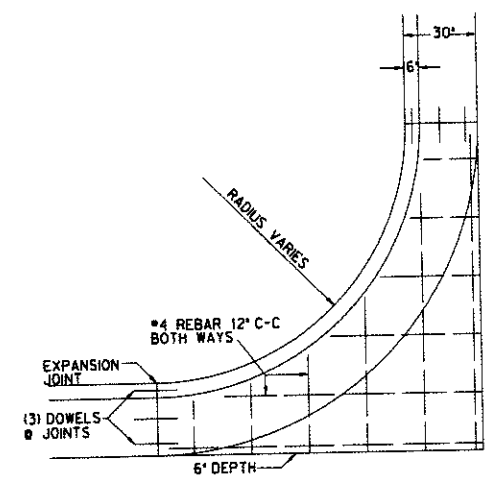
7. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 6 INCHES. THE SILT SHALL BE DISPOSED OF IN AN APPROVED SITE AND IN SUCH A MANNER AS TO NOT CONTRIBUTE TO ADDITIONAL SILTATION.

SILT FENCE DETAILS

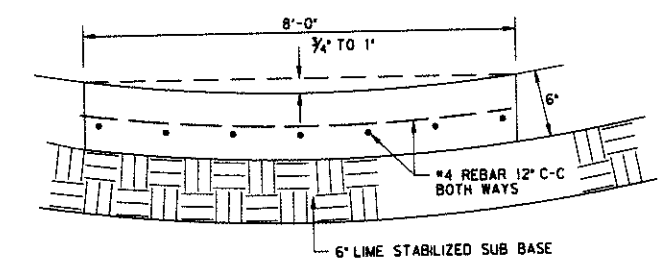
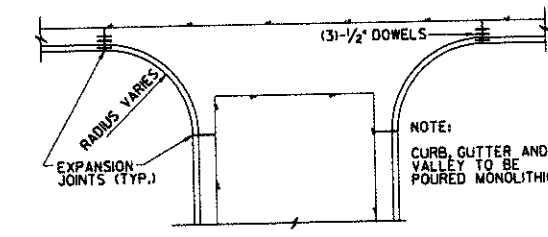
NTS



CITY OF CLEBURNE		
TRINITY STREET PAVING AND DRAINAGE IMPROVEMENTS		
EROSION CONTROL PLAN & DETAILS		
CHILDRESS ENGINEERS ENGINEERS & CONSULTANTS 211 N. RICHMOND DRIVE CLEBURNE, TEXAS 76033		
DESIGNED BY: JJB	REV. BY: DATE SYMBOL	DATE: DECEMBER 2007
DRAWN BY: JDL		JOB NO: 07030
CHECKED BY: RTC		SHEET NO. 6 OF 9

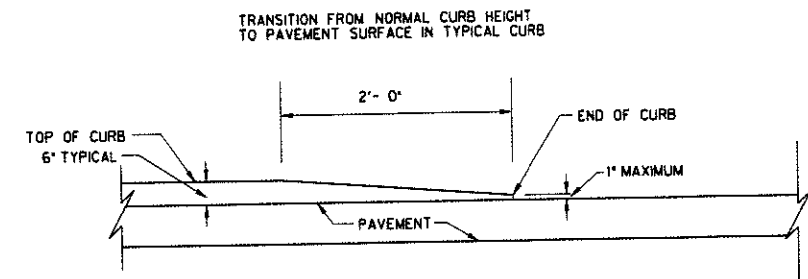


TYPICAL CURB RETURN

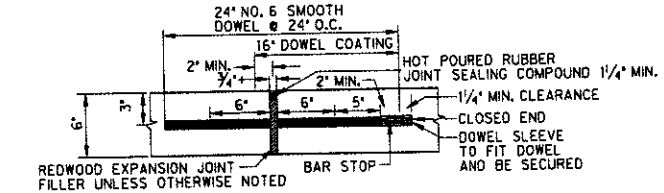


TRANSITION SECTION FOR VALLEY CROSSING MAJOR STREETS	
DISTANCE FROM THE CL OF DIP	CROWN
0'	0.000'
5'	0.041'
10'	0.083'
20'	0.208'
30'	0.333'
40'	0.458'
50'	0.500'

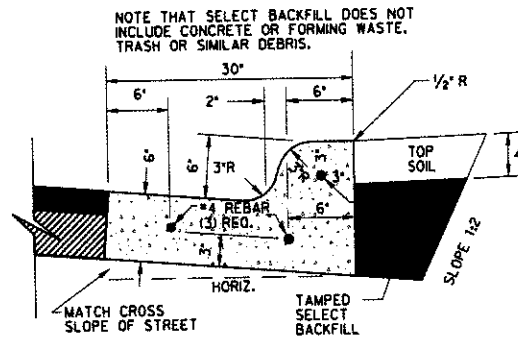
MONOLITHIC CONCRETE VALLEY AND CURB RETURN



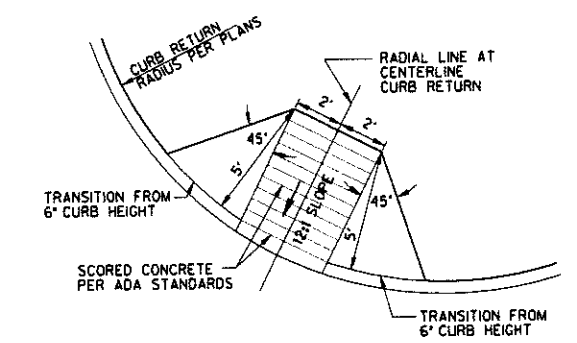
CURB END TRANSITION
N. T. S.



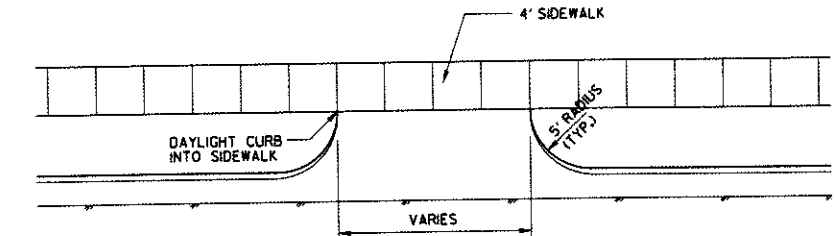
CURB AND GUTTER EXPANSION JOINT
N. T. S.



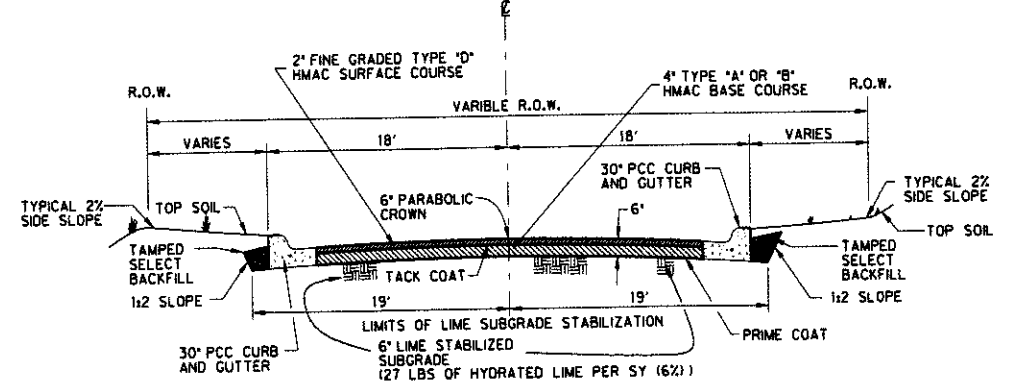
TYPICAL CURB AND GUTTER
NTS



TYPICAL ADA RAMP
NTS



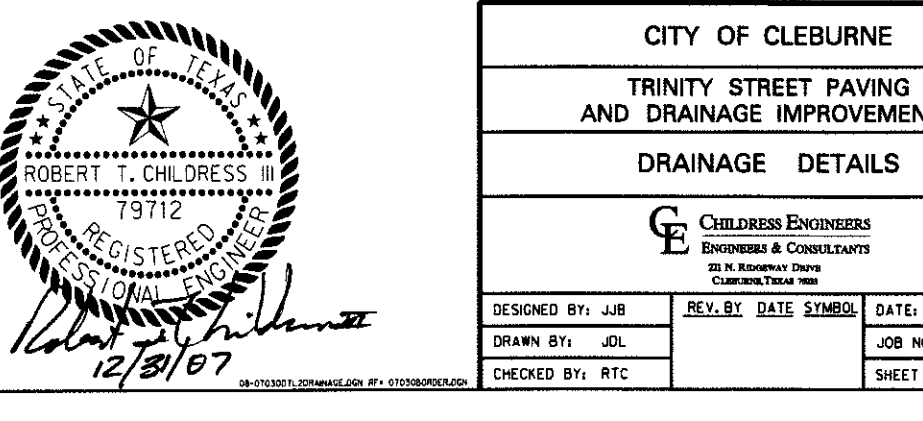
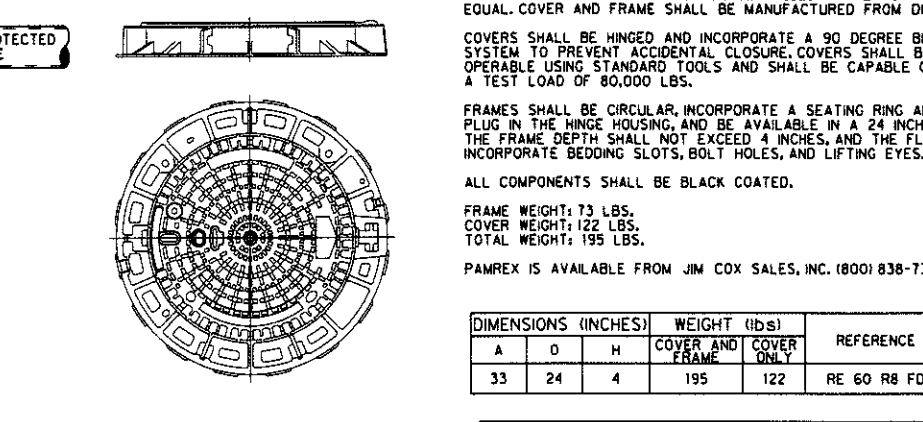
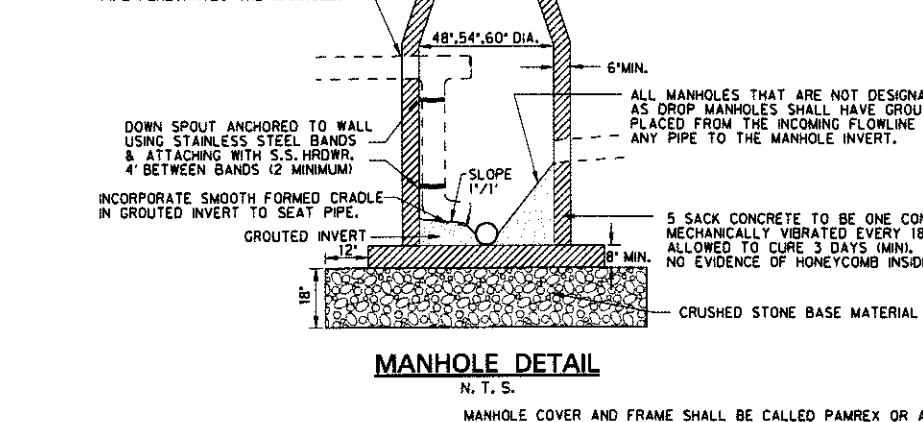
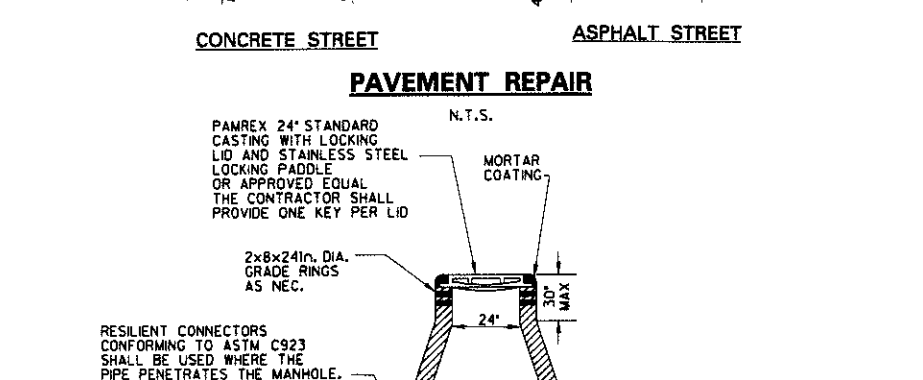
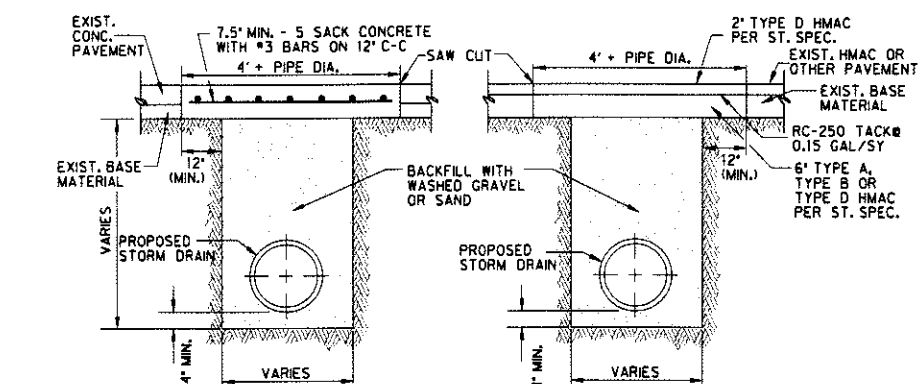
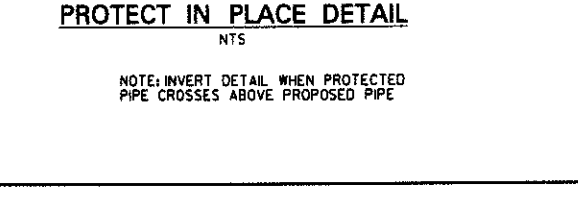
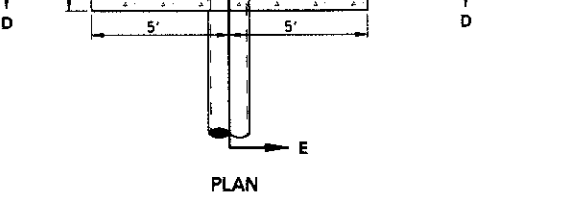
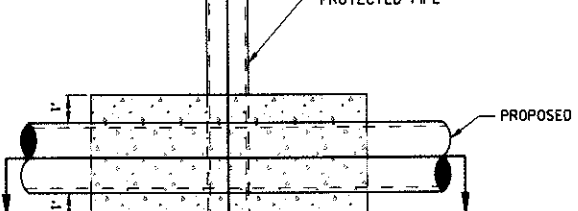
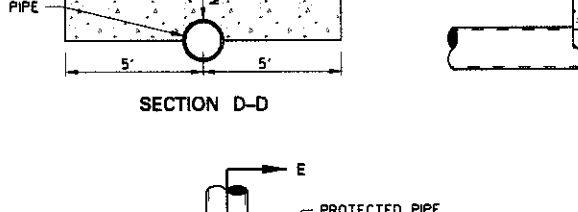
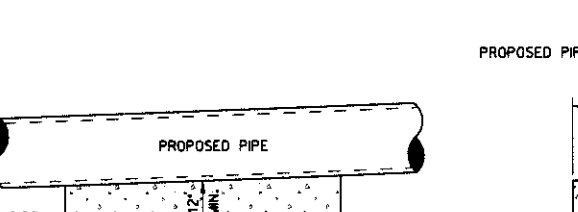
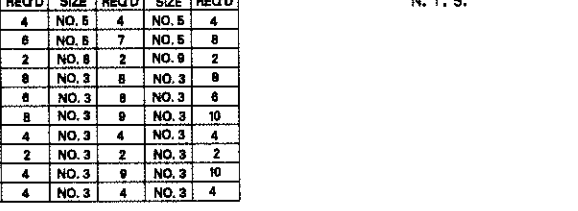
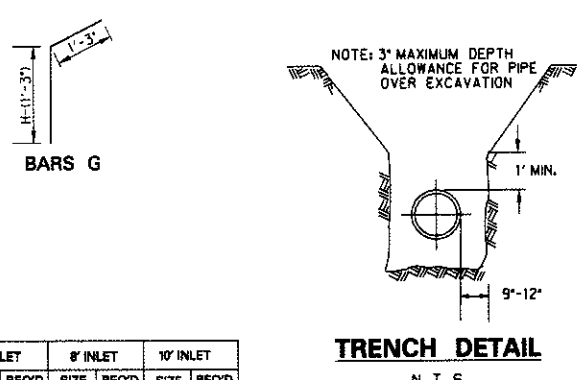
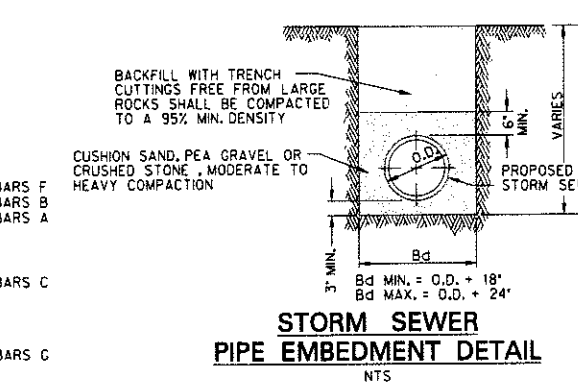
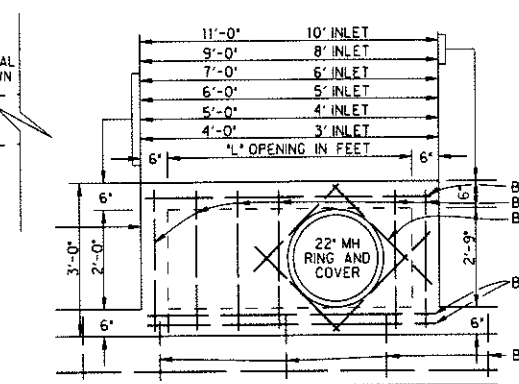
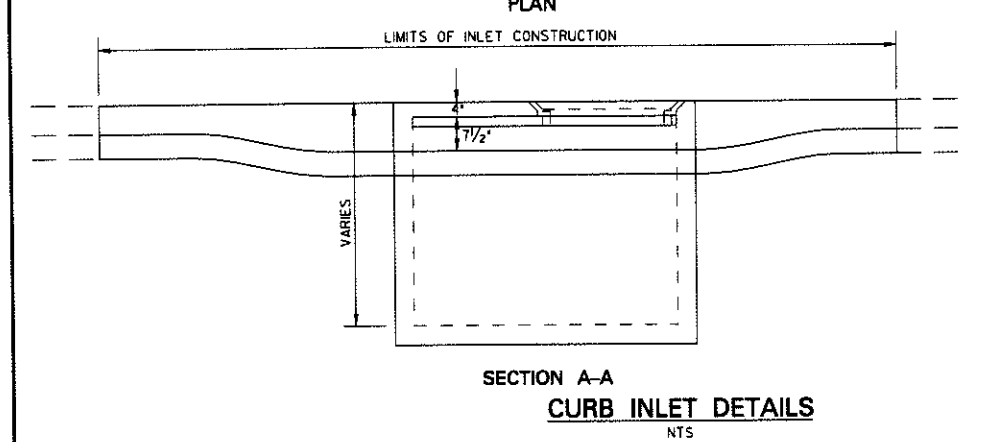
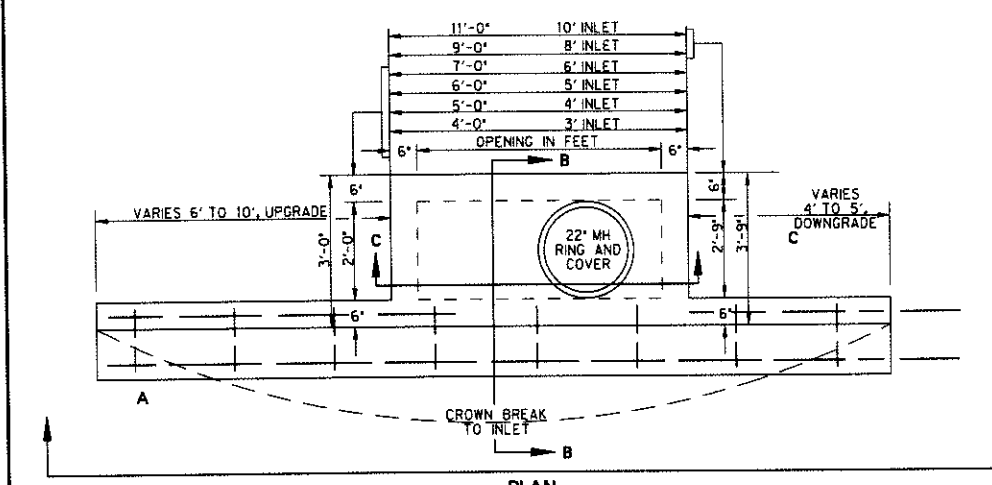
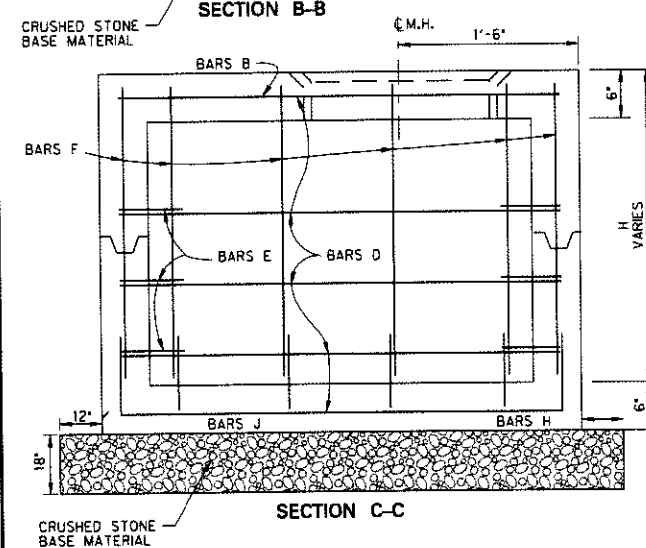
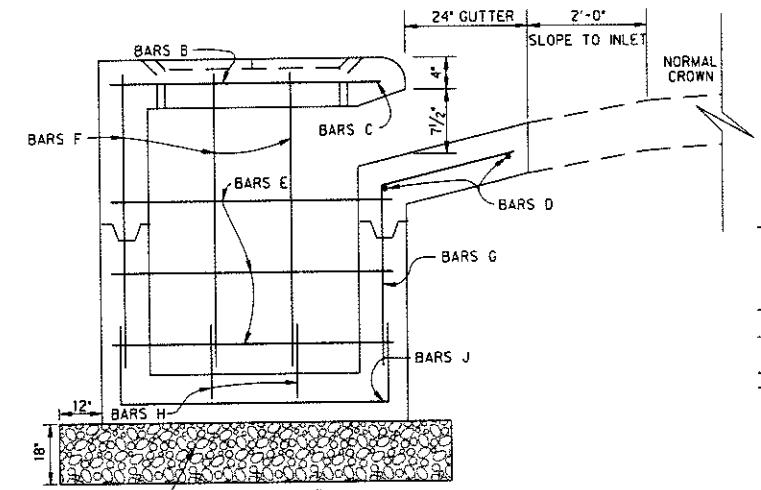
TYPICAL DRIVE APPROACH
NTS



TYPICAL 36' B - B STREET SECTION
N.T.S.



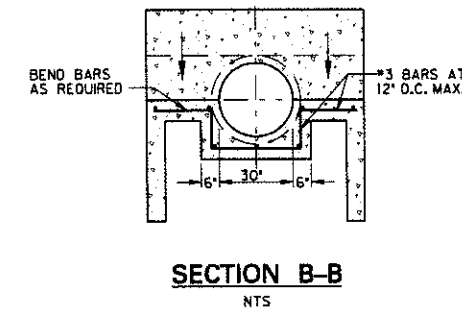
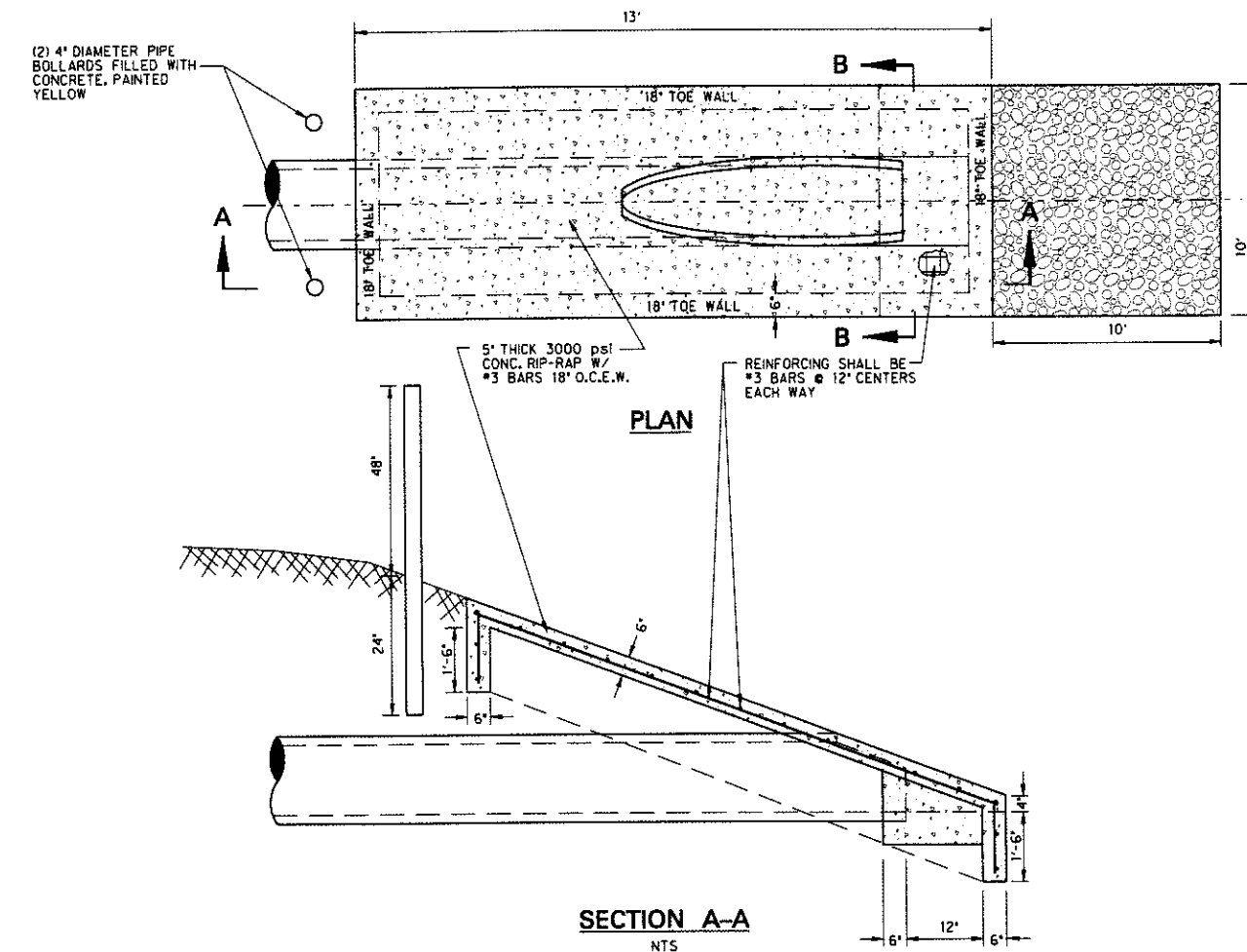
CITY OF CLEBURNE			
TRINITY STREET PAVING AND DRAINAGE IMPROVEMENTS			
PAVING DETAILS			
CHILDRESS ENGINEERS ENGINEERS & CONSULTANTS 22 N. RICHWAY DRIVE CLEBURNE, TEXAS 76033			
DESIGNED BY: JJB	REV. BY	DATE	SYMBOL
DRAWN BY: JDL			
CHECKED BY: RTC			
		DATE: DECEMBER 2007	
		JOB NO: 07030	
		SHEET NO. 7 OF 9	



MARK	L	SIZE	REQ'D	SIZE	REQ'D	SIZE	REQ'D	SIZE	REQ'D	SIZE	REQ'D	SIZE	REQ'D
A	2'-3"	NO. 4	4	NO. 5	4	NO. 5	4	NO. 5	4	NO. 5	4	NO. 5	4
B	2'-6"	NO. 4	4	NO. 4	8	NO. 4	8	NO. 4	8	NO. 5	7	NO. 5	8
C	1'-8"	NO. 4	2	NO. 6	2	NO. 6	2	NO. 7	2	NO. 8	2	NO. 9	2
D	1'-8"	NO. 3	8	NO. 3	8	NO. 3	8	NO. 3	8	NO. 3	8	NO. 3	8
E	8'-12"	NO. 3	8	NO. 3	8	NO. 3	8	NO. 3	8	NO. 3	8	NO. 3	8
F	1'-12"	NO. 3	8	NO. 3	7	NO. 3	8	NO. 3	8	NO. 3	9	NO. 3	10
G	H	NO. 3	3	NO. 3	3	NO. 3	4	NO. 3	4	NO. 3	4	NO. 3	4
H	1'-12"	NO. 3	2	NO. 3	2	NO. 3	2	NO. 3	2	NO. 3	2	NO. 3	2
J	4'-8"	NO. 3	2	NO. 3	3	NO. 3	4	NO. 3	4	NO. 3	9	NO. 3	10
K	H-1	NO. 3	3	NO. 3	3	NO. 3	4	NO. 3	4	NO. 3	4	NO. 3	4

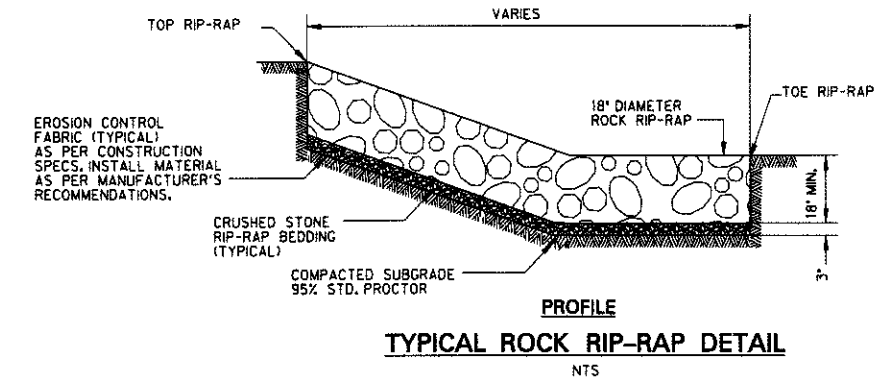


CITY OF CLEBURNE			
TRINITY STREET PAVING AND DRAINAGE IMPROVEMENTS			
DRAINAGE DETAILS			
CHILDRESS ENGINEERS ENGINEERS & CONSULTANTS 201 N. Highway 190 Cleburne, Texas 76033			
DESIGNED BY: JJB	REV. BY: JJB	DATE: DECEMBER 2007	SYMBOL: DATE: DECEMBER 2007
DRAWN BY: JOL	CHECKED BY: RTC	JOB NO: 07030	SHEET NO. 8 OF 9



- MODIFIED SLOPED END SECTION GENERAL NOTES:
1. ALL CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 3,000 psi AT 28 DAYS.
 2. REINFORCING STEEL SHALL CONFORM TO CONTRACT SPECIFICATIONS.
 3. LAP ALL CONTINUOUS REINFORCING A MINIMUM OF 36 BAR DIAMETERS.
 4. CENTER STEEL IN SLAB WITH MINIMUM CLEAR COVER OF 2 INCHES.
 5. ALL VISIBLE SURFACES SHALL RECEIVE A LIGHT BROOM FINISH.
 6. ALL EXPOSED CORNERS SHALL BE CHAMFERED $\frac{1}{4}$ INCH.
 7. TIE STEEL TO EXPOSED PIPE OR BOX REINFORCING.
 8. CONCRETE SLAB TO PLACED ON 2\"/>

MODIFIED SLOPED END
NTS



PROFILE
TYPICAL ROCK RIP-RAP DETAIL
NTS



CITY OF CLEBURNE			
TRINITY STREET PAVING AND DRAINAGE IMPROVEMENTS			
MODIFIED SLOPED END DETAIL			
 CHILDRESS ENGINEERS ENGINEERS & CONSULTANTS 201 N. RICHMOND DRIVE CLEBURNE, TEXAS 76033			
DESIGNED BY: JJB	REV. BY	DATE	SYMBOL
DRAWN BY: JOL			
CHECKED BY: RTC			
		DATE: DECEMBER 2007	
		JOB NO: 07030	
		SHEET NO. 9 OF 9	