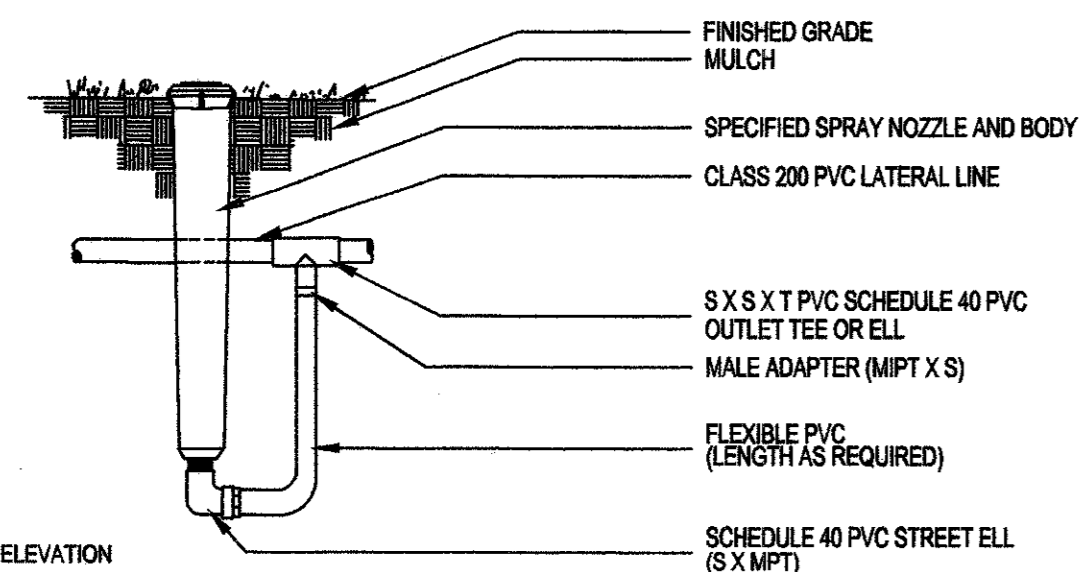
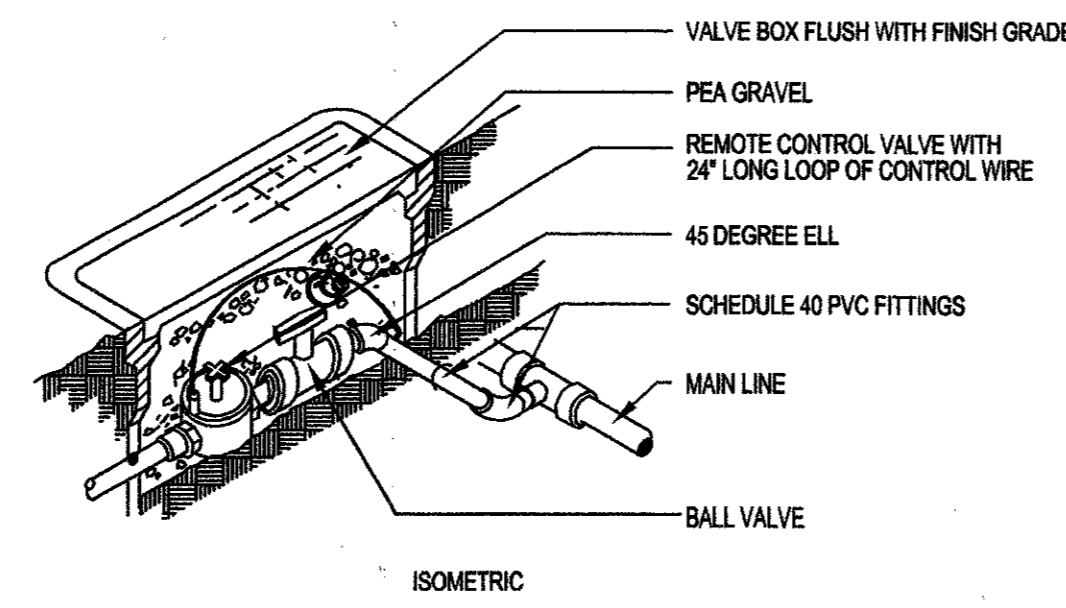


IRRIGATION LEGEND

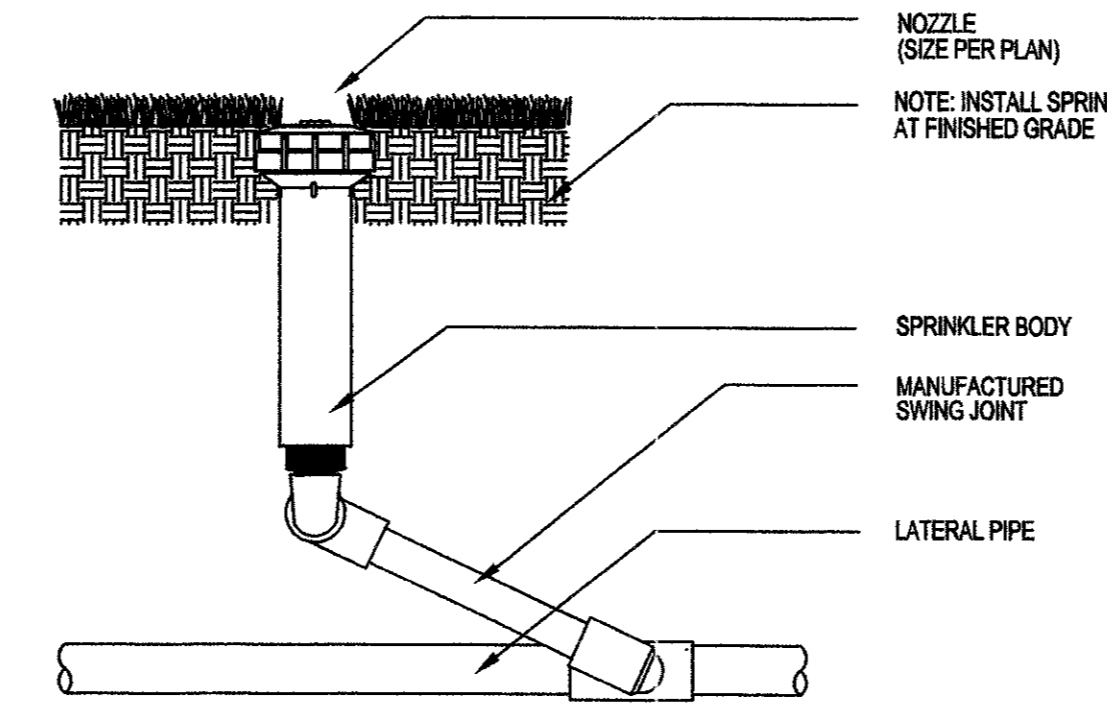
- RAINBIRD POP-UP LOW ANGLE SHRUB SPRAY
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- RAINBIRD POP-UP END STRIP SPRAY
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- MANUAL GATE VALVE-LINE SIZE
- ELECTRIC CONTROLLER
MANUFACTURE AND MODEL AS SHOWN ON PLAN
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- FREEZE SENSOR-GLINN-HILTON-#401
- MOISTURE SENSOR-GLINN-HILTON-#502
- EXISTING 2" IRRIGATION WATER METER & TAPING SLEEVE
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- FEBCO DOUBLE CHECK VALVE:
EXISTING 2" #805Y IN FLUSH CONCRETE VALVE BOX(NOT SHOWN)



HIGH RISER ASSEMBLY not to scale



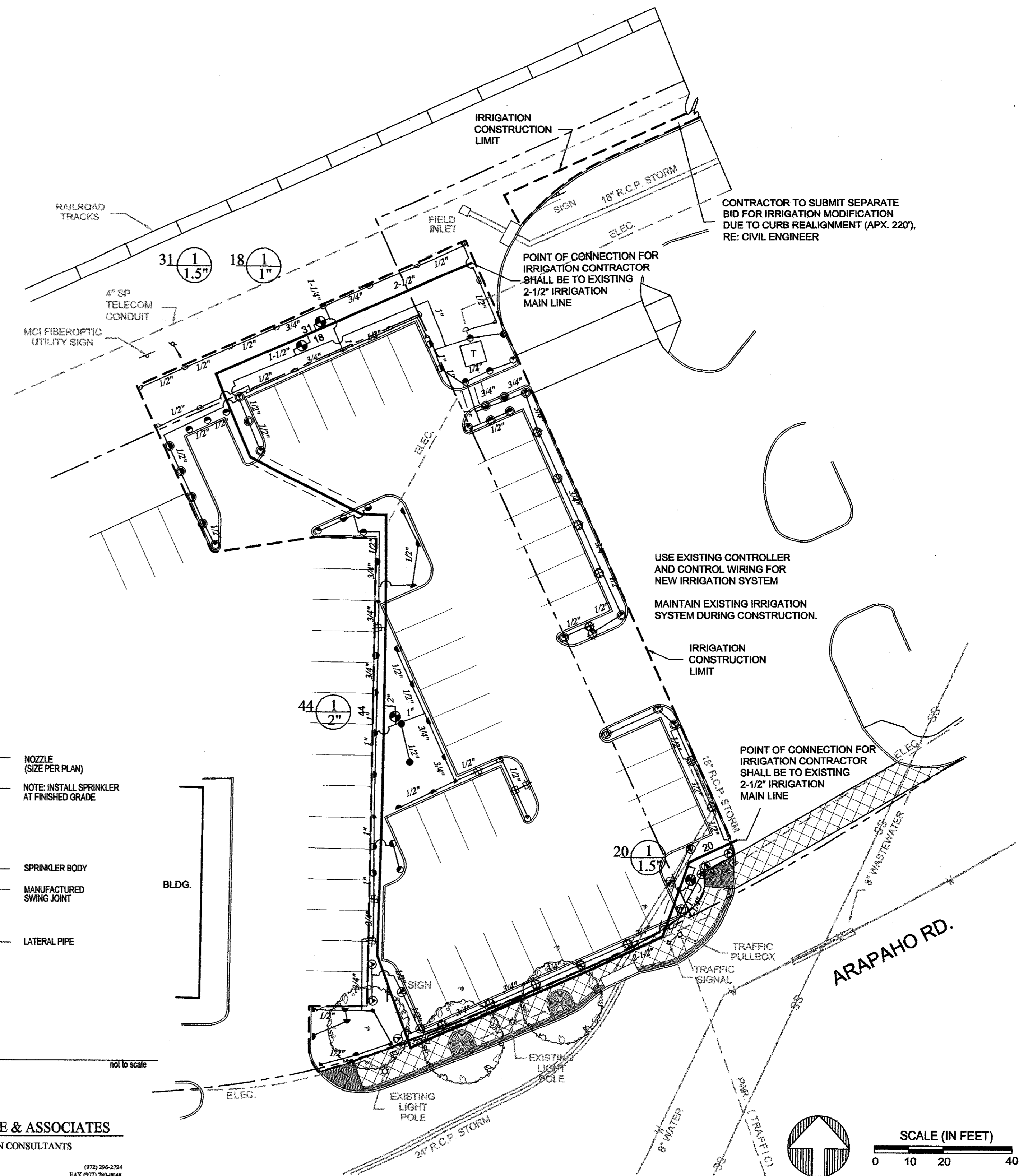
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POP - UP RISER ASSEMBLY not to scale

IRRIGATION NOTES

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2. ALL MAIN LINE PIPING SHALL BE BURIED TO HAVE A MINIMUM COVER OF 18". ALL LATERAL PIPING DOWNSTREAM OF THE MAIN LINE SHALL BURIED TO HAVE A MINIMUM COVER OF 12".
3. ALL MAINS ARE TO DRAIN TO LOW POINTS AT A MINIMUM ONE HALF(1/2%) PERCENT SLOPE. AT LOW POINTS, INSTALL GATE VALVE TO FACILITATE DRAINAGE OF SYSTEM DURING FREEZING TEMPERATURES
4. CONTRACTOR SHALL INSTALL AUTOMATIC DRAIN VALVES AT LOW POINTS IN THE IRRIGATION LINES AS REQUIRED TO PREVENT FREEZE DAMAGE.
5. ALL VALVE BOXES SHALL BE BLACK IN COLOR(BODY AND LID), SIZES SHALL BE TEN(10") INCHES BY FOURTEEN(14") INCHES (RECTANGULAR) FOR REMOTE CONTROL VALVES AND NINE(9") INCHES(ROUND) FOR GATE AND QUICK COUPLER VALVES.
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9. ALL IRRIGATION INSTALLATION SHALL CONFORM TO THE LOCAL CODES AND REGULATIONS
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14. IRRIGATION CONTRACTOR SHALL MAINTAIN EXISTING IRRIGATION SYSTEM DURING NEW CONSTRUCTION



STEPHEN C BERKENBILE & ASSOCIATES
IRRIGATION DESIGN CONSULTANTS
411 HYPER PARK PLACE
DUNCANVILLE, TX 75117
(972) 286-2724
FAX (972) 780-0048

REV	DATE	DESCRIPTION	BY	ENG	CHK	APP

LINDA TYCHER & ASSOCIATES
LANDSCAPE ARCHITECTS

Turner Collie & Braden Inc.
ENGINEERS • PLANNERS • PROJECT MANAGERS

DART PROJECT

DART

SCALE	1"=20'-0"
DRAWN	C. WALKER
DESIGNED	C. WALKER
CHECKED	L. TYCHER
IN CHARGE	L. TYCHER
DATE	4 FEBRUARY 02

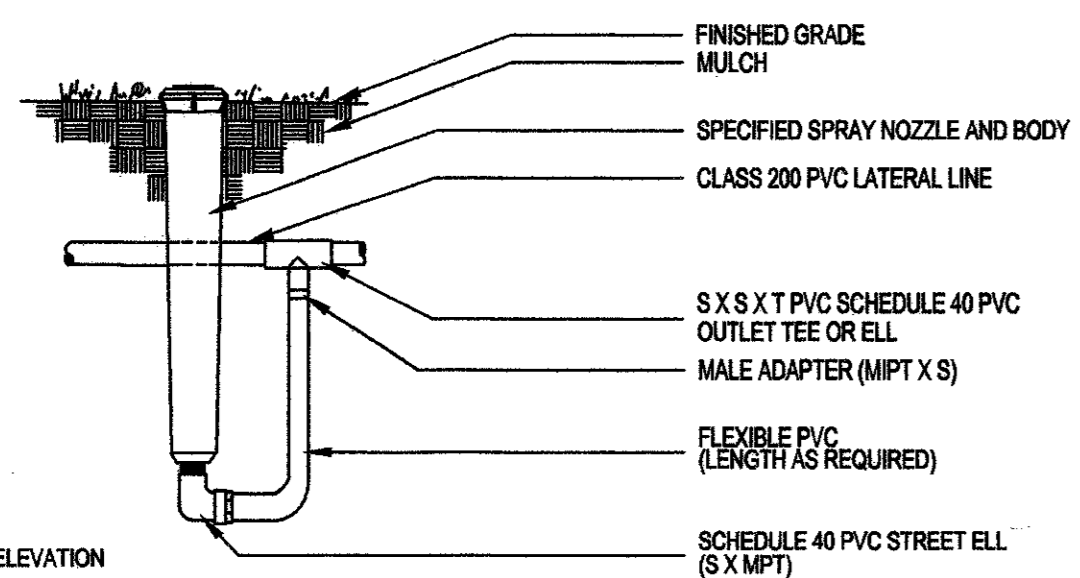
CONTRACT SHEET No.

ADDISON TRANSIT CENTER LANDSCAPE IRRIGATION

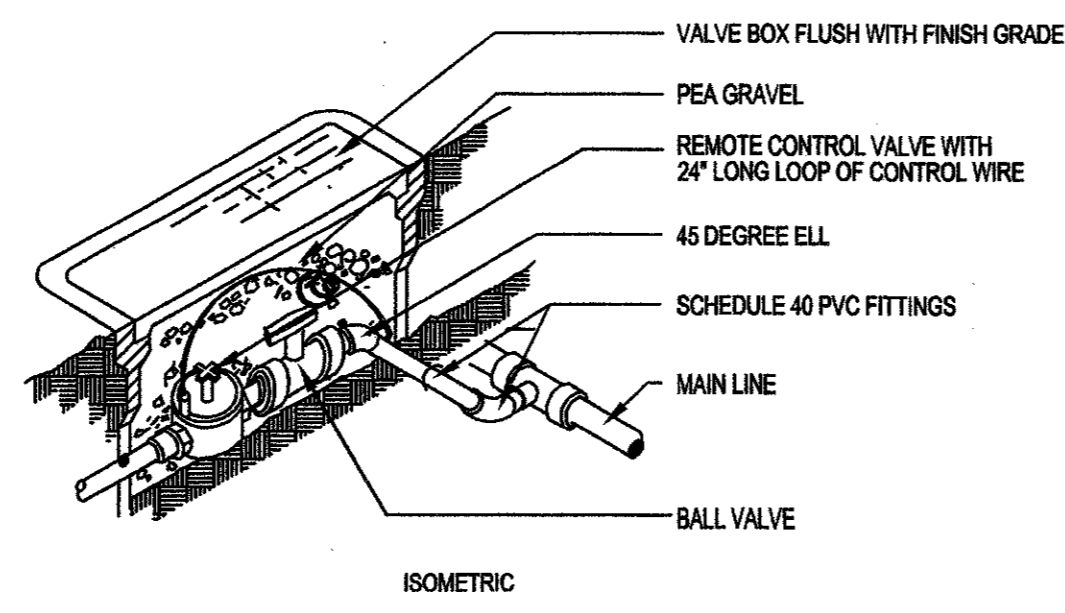
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IRRIGATION LEGEND

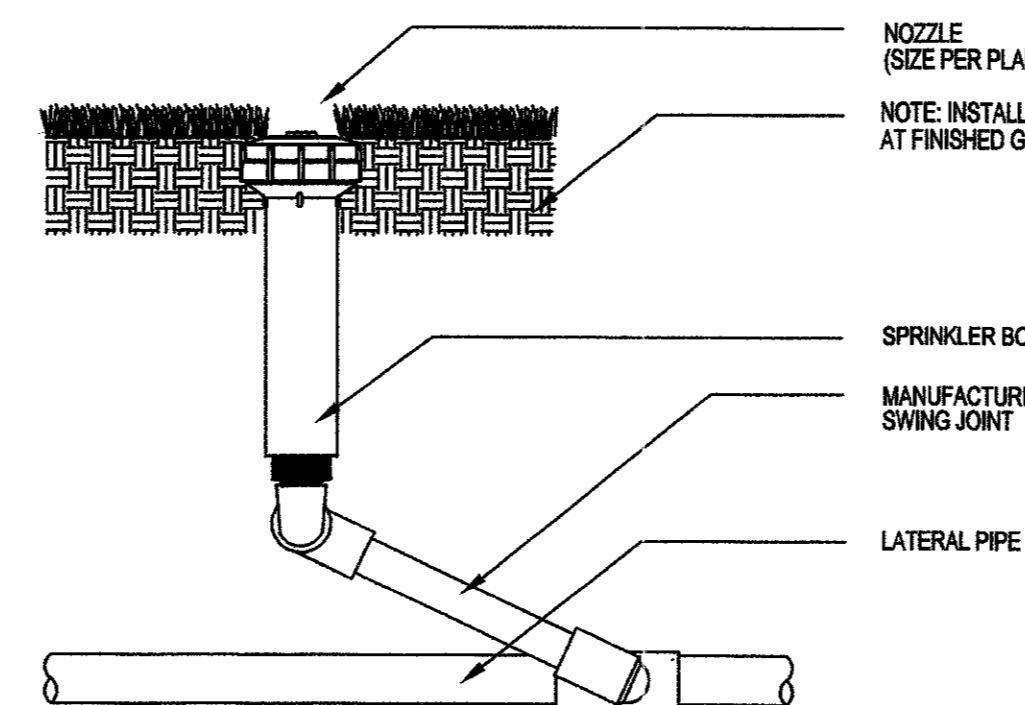
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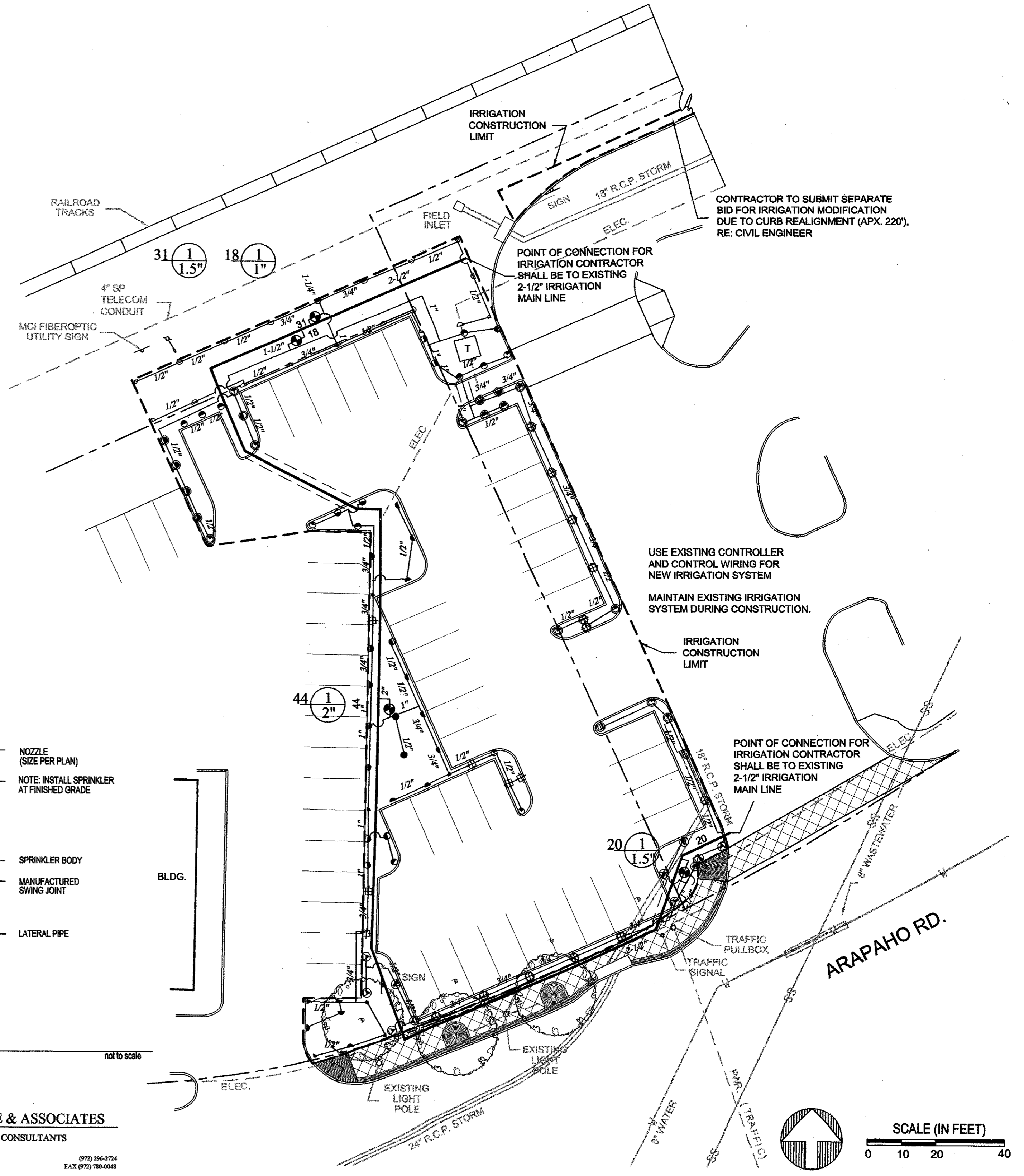
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POP - UP RISER ASSEMBLY not to scale

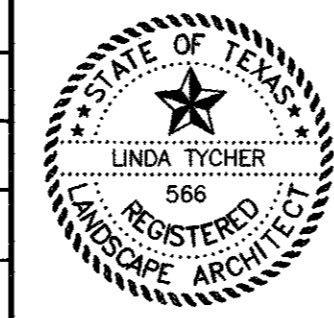
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DART PROJECT



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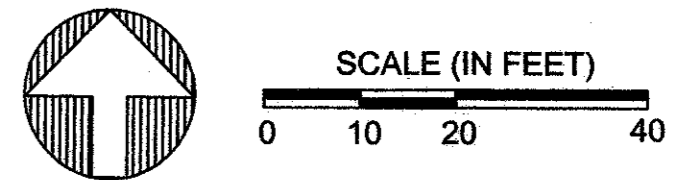
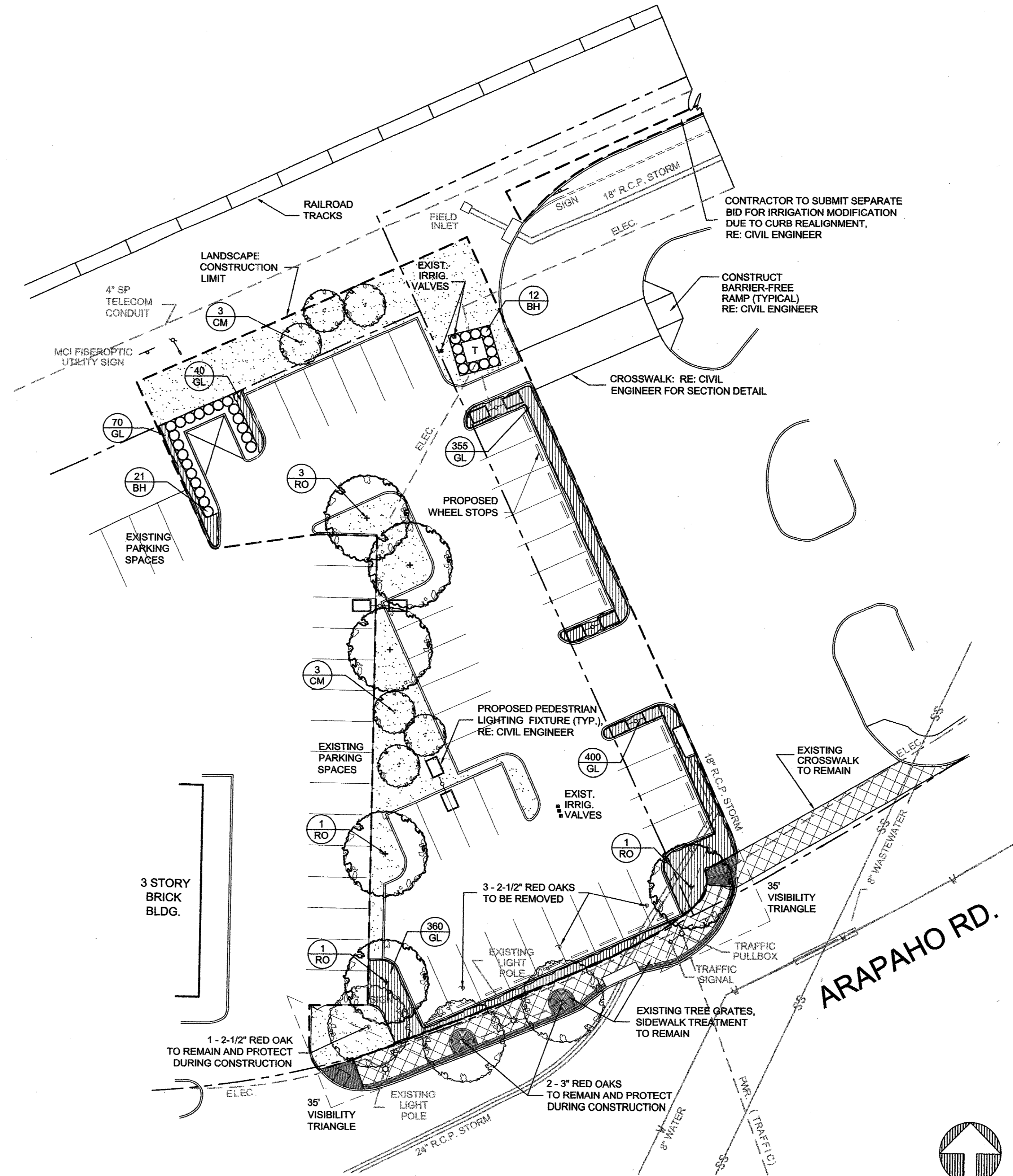
ADDISON
TRANSIT CENTER
LANDSCAPE
IRRIGATION

CONTRACT SHEET No.

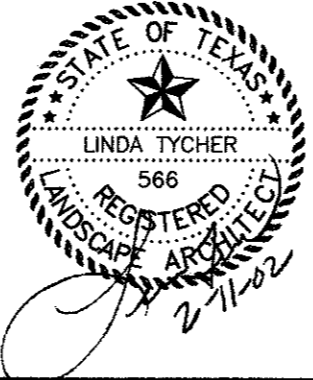
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REV	DATE	DESCRIPTION	BY	ENG	CHK	APP	REV	DATE	DESCRIPTION	BY	ENG	CHK	APP

CITY OF ADDISON ARTICLE XXI LANDSCAPING REGULATIONS REVIEW:	
REQUIRED	PROVIDED
GROSS SITE LANDSCAPE: MIN. TWENTY PERCENT (20%), INCLUDES INTERIOR/EXTERIOR PARKING LANDSCAPE 19,400 S.F. LOT X .20 = 3,880 S.F. LANDSCAPE	5,868 S.F. GROSS SITE LANDSCAPE = 30%
STREET LANDSCAPE BUFFER: MIN. 20' DEPTH ALONG ENTIRE STREET FRONTAGE - MAY INCLUDE TOWN RIGHT-OF-WAY	EXISTING WALK AND TREE GRATES
STREET FRONTAGE TREES: WITHIN BUFFER/RIGHT-OF-WAY, ONE (1) 4" CALIPER TREE PER 20 L.F. OF FRONTAGE, SETBACK 2'-6" FROM CURB 110 L.F. STREET FRONTAGE/20 = 5 TREES	5 STREET FRONTAGE TREES
STREET FRONTAGE SHRUBS: WITHIN BUFFER/R.O.W., EIGHT (8) 5 GAL. SHRUBS PER 20 L.F. OF FRONTAGE 110 L.F. STREET FRONTAGE/20 X 8 = 40 SHRUBS	EXISTING WALK AND TREE GRATES
TREE PLANTING AREAS: MIN. 6' WIDE, MIN. 60 S.F.	MIN. 6' WIDE, MIN. 60 S.F. TREE PLANTING AREAS
VISIBILITY TRIANGLES: 35' BACK OF INTERSECTING CURB LINES - SINGLE TRUNK TREES WITH LIMBS PRUNED TO 6' HT., SHRUBS MAX. 1'-6" HT.	ALL TREES WITHIN VISIBILITY TRIANGLES HAVE LIMBS PRUNED TO 6' HT., SHRUBS ARE MAX. 1'-6" HT.
PARKING LOT SCREENING: BERM/SHRUBS OR WALL/SHRUBS, 3'-6" TOTAL HT. ABOVE PARKING SURFACE ALONG ENTIRE STREET FRONTAGE, SHRUBS - DOUBLE STAGGERED ROW, 3'-0" O.C.; 18" MIN. HT. AT PLANTING, 30" HT. WITHIN 2 YEARS	EXISTING WALK AND TREE GRATES
PARKING LOT PERIMETER LANDSCAPING: MIN. 5' PERIMETER STRIP FOR SITE GREATER THAN 10,000 S.F. (19,400 S.F. LOT)	MIN. 5' WIDE PERIMETER LANDSCAPE STRIP
PARKING LOT PERIMETER TREES/SHRUBS: ONE (1) 4" CAL. CANOPY TREE AND EIGHT (8) 5 GAL. SHRUBS/ 35 L.F. OF PERIMETER	PARKING LOT IS A CONTINUATION OF PHASE I AND ABUTTS ADJOINING PARKING LOT
INTERIOR PARKING LOT LANDSCAPING: FIVE PERCENT (5%) OF LOTS 7,000 S.F. - 49,999 S.F. TO BE LANDSCAPED 16,250 S.F. PARKING LOT X .05 = 812 S.F. LANDSCAPE	3,480 S.F. PARKING LOT LANDSCAPE = 21%
PARKING LOT TREES: ONE (1) LARGE 4" CAL. SHADE TREE PER TEN (10) PARKING SPACES; NO SPACE FARTHER THAN 50' FROM A SHADE TREE. ON 50% OF REQUIRED TREES, MAY SUBSTITUTE 2 ORNAMENTAL AND/OR EVERGREEN TREES FOR 1 SHADE TREE 36 PARKING SPACES/10 = 4 TREES	4 - 4" SHADE TREES 3 - 8" HT. ORNAMENTAL TREES NO SPACE FURTHER THAN 50' FROM A SHADE TREE



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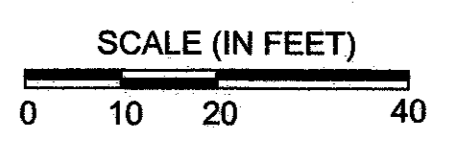
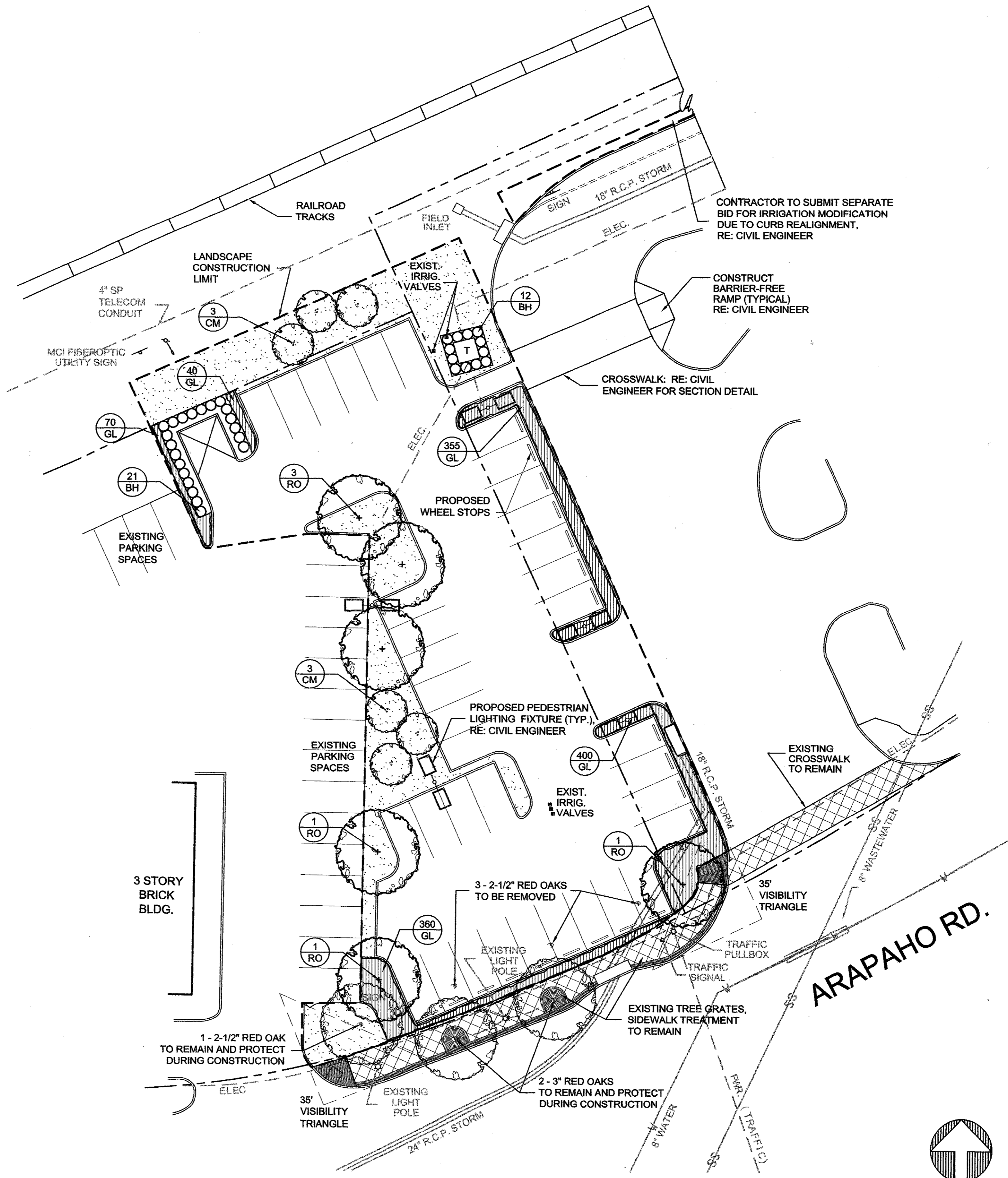
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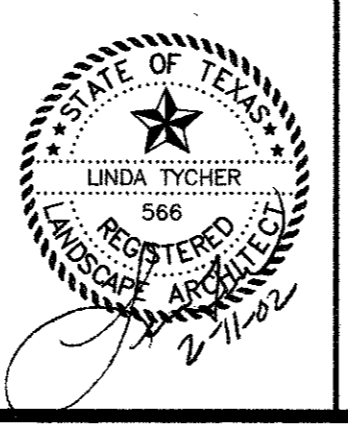
SCALE	1"=20'-0"
DRAWN	C. WALKER
DESIGNED	C. WALKER
CHECKED	L. TYCHER
IN CHARGE	L. TYCHER
DATE	2 NOVEMBER 01

CONTRACT SHEET No.		
ADDISON TRANSIT CENTER LANDSCAPE DEVELOPMENT		
CONTRACT	DWG No. LS-1	REV 0

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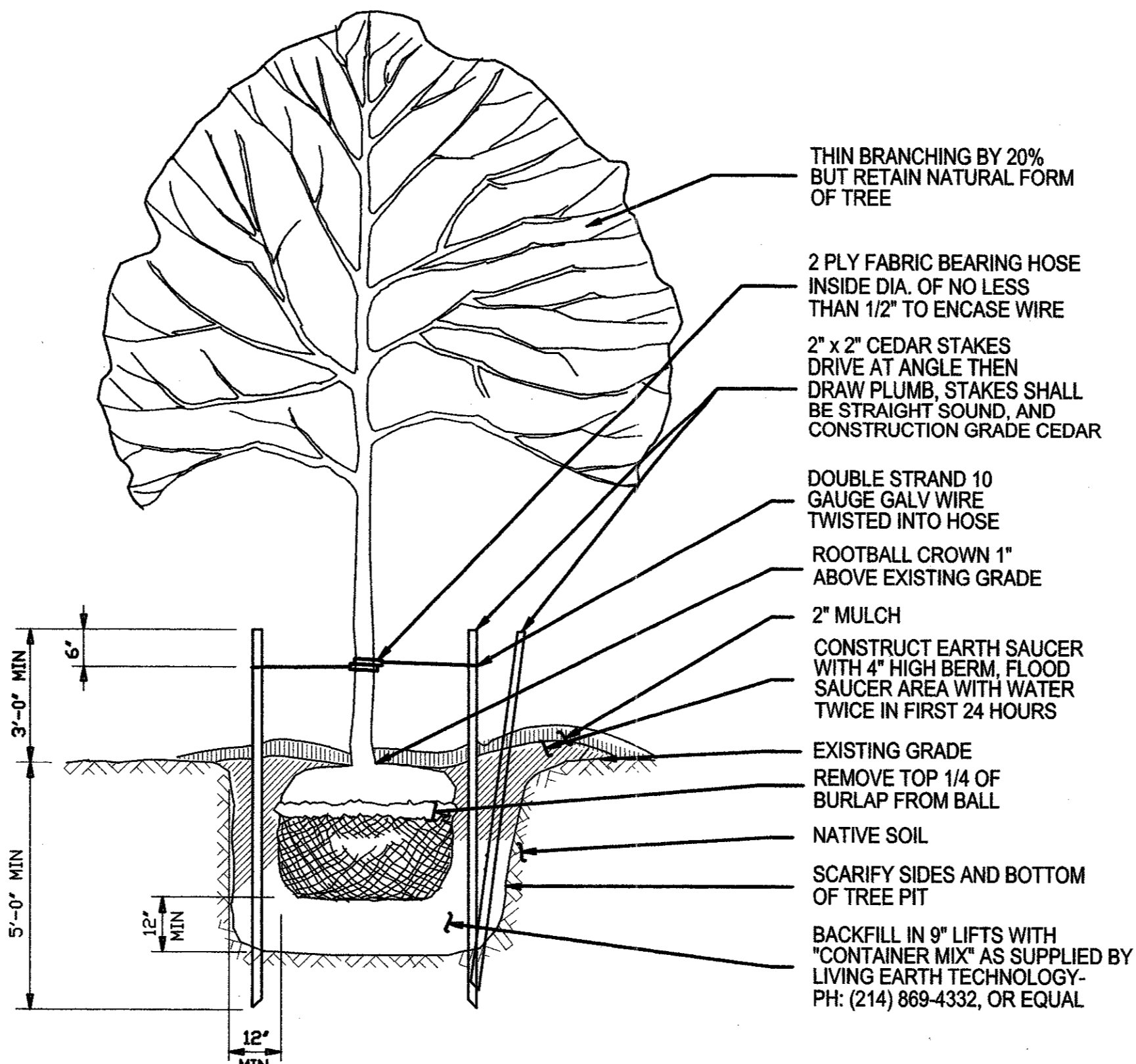


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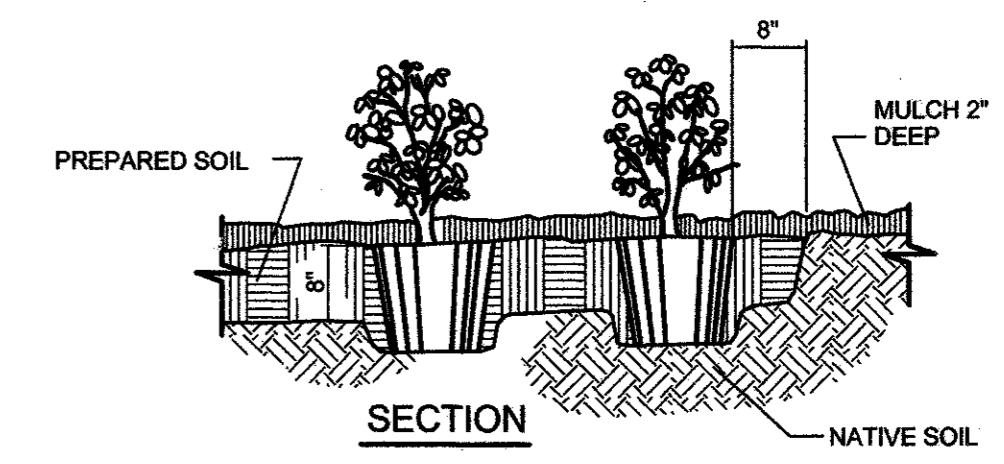
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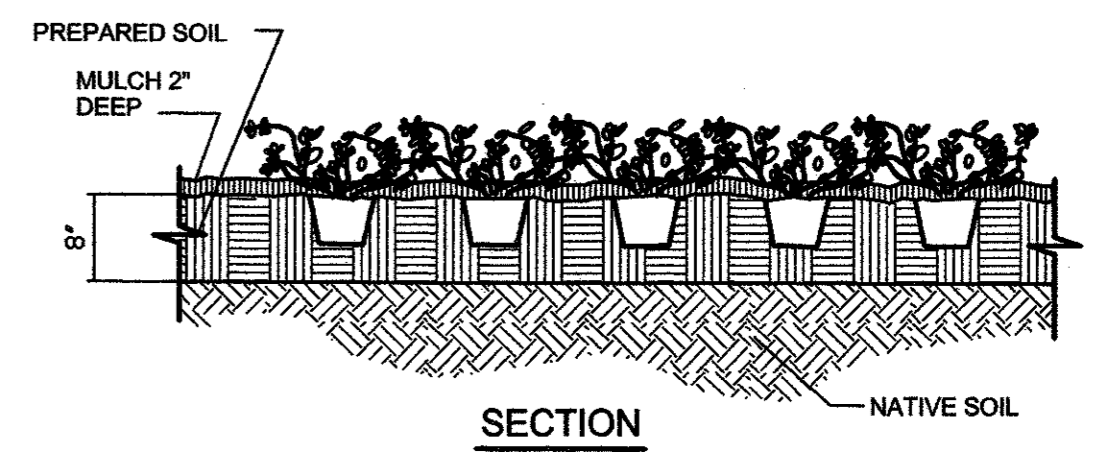
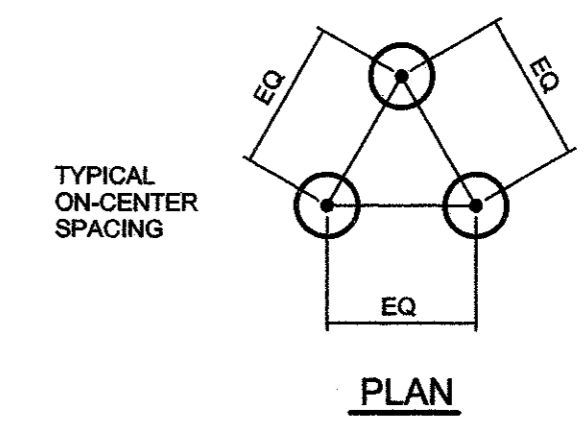
CONTRACT	DWG No.	LS-1	REV 0
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1 TREE PLANTING DETAIL N.T.S.
 NOTE: THIS DETAIL FOR ALL ORNAMENTALS AND TREES 4" CALIPER AND LESS. PLANTING PROCEDURE UTILIZED FOR ALL TREES.



2 SHRUB PLANTING DETAIL N.T.S.



3 GROUNDCOVER PLANTING DETAIL N.T.S.

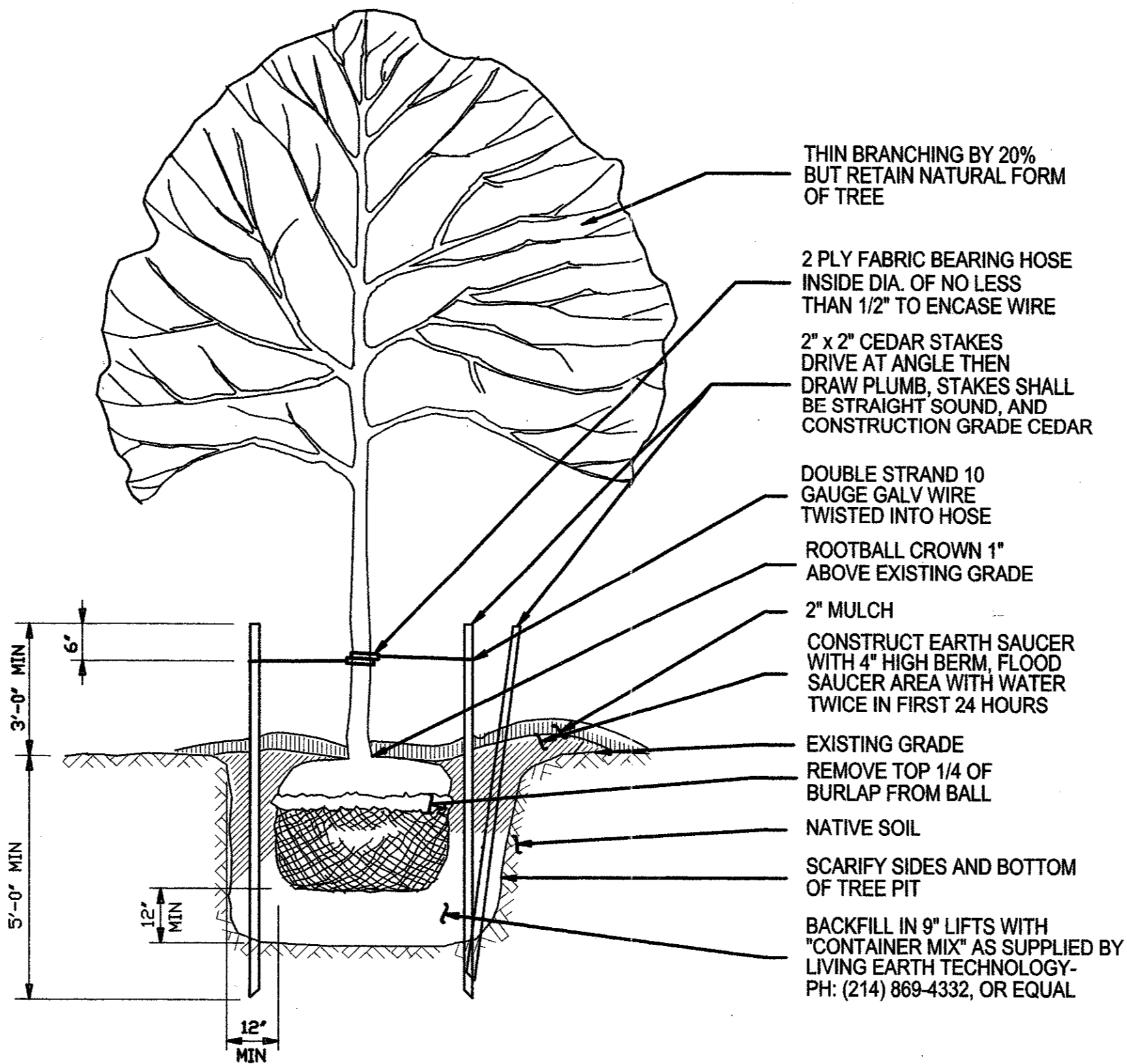
PLANT SCHEDULE

CODE	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
RO	TREES: QUERCUS SHUMARDII	'SHUMARD' RED OAK	65 GAL.	3" CAL., SINGLE STRAIGHT TRUNK; 8' - 10' HT., 6" SP., BRANCHING AT 5'
CM	LAGERSTROEMIA INDICA 'WATERMELON RED'	CRAPEMYRTLE 'WATERMELON RED'	45 GAL.	6' HT., MIN. 3 TRUNK; BRANCHING AT 3'
BH	SHRUBS: ILEX CORNUTA 'BURFORDII'	BURFORD HOLLY	5 GAL.	FULL PLANT; MIN. 18" HT. AT PLANTING SPACED 3'-0" O.C.
GL	GROUNDCOVER: LIRIOPE MUSCARI	GREEN LIRIOPE	4" POTS	FULL PLANT; SPACED 12" O.C.

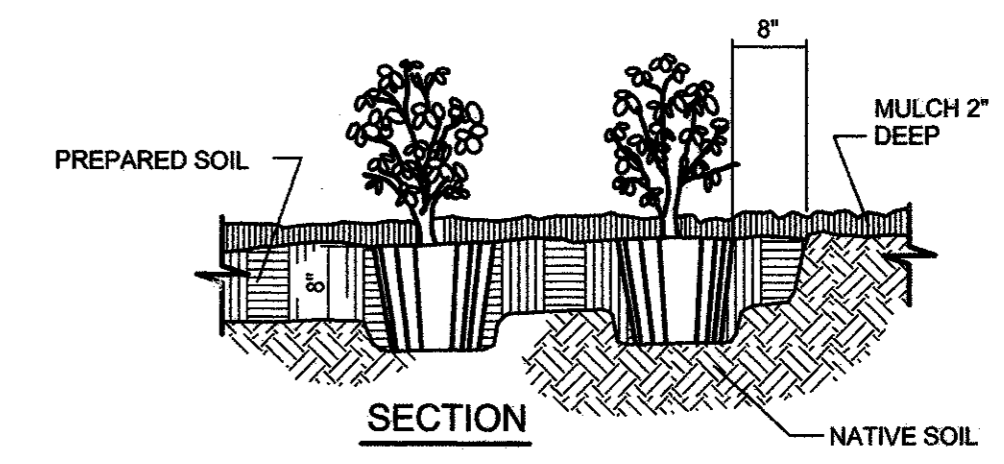
GENERAL NOTES

LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UTILITIES BEFORE BEGINNING WORK
 LANDSCAPE CONTRACTOR TO NOTIFY OWNER IF ANY SITE DISCREPANCIES OCCUR
 LANDSCAPE CONTRACTOR RESPONSIBLE FOR OBTAINING ALL RELEVANT PERMITS
 ALL PLANTING AREAS THAT ARE NOT INDICATED AS SHRUBS OR GROUNDCOVER ARE TO BE HYDROMULCH BERMUDA
 ALL LANDSCAPE AREAS TO BE WATERED BY A FULLY AUTOMATIC IRRIGATION SYSTEM WITH RAIN AND FREEZE SENSORS, DESIGNED BY A LICENSED IRRIGATOR
 GENERAL CONTRACTOR IS TO FINAL GRADE SITE IN ACCORDANCE WITH CIVIL ENGINEERING DOCUMENTS AND LEAVE SITE CLEAN AND FREE OF DEBRIS

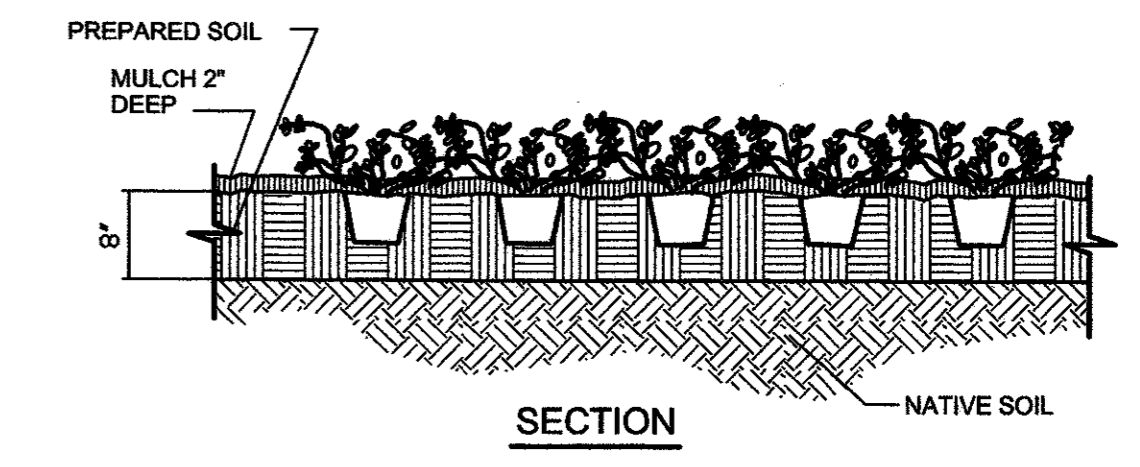
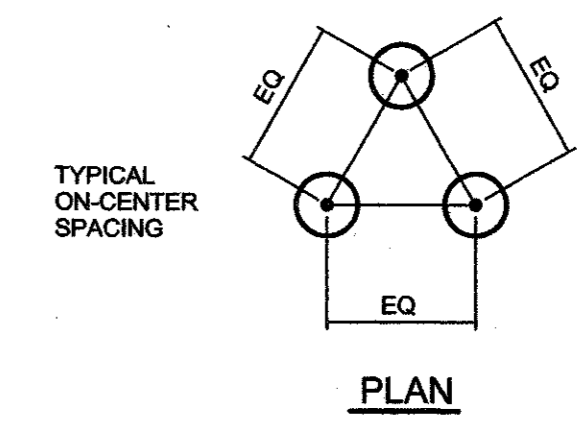
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1 TREE PLANTING DETAIL N.T.S.
 NOTE: THIS DETAIL FOR ALL ORNAMENTALS AND TREES 4" CALIPER AND LESS. PLANTING PROCEDURE UTILIZED FOR ALL TREES.



2 SHRUB PLANTING DETAIL N.T.S.



3 GROUNDCOVER PLANTING DETAIL N.T.S.

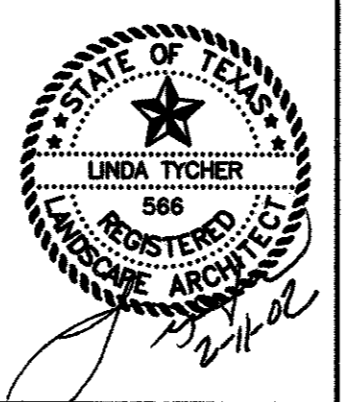
PLANT SCHEDULE

CODE	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
RO	TREES: QUERCUS SHUMARDII	'SHUMARD' RED OAK	65 GAL.	3" CAL., SINGLE STRAIGHT TRUNK; 8' - 10' HT., 6' SP., BRANCHING AT 5'
CM	LAGERSTROEMIA INDICA 'WATERMELON RED'	CRAPEMYRTLE 'WATERMELON RED'	45 GAL.	6' HT., MIN. 3 TRUNK; BRANCHING AT 3'
BH	SHRUBS: ILEX CORNUTA 'BURFORDII'	BURFORD HOLLY	5 GAL.	FULL PLANT; MIN. 18" HT. AT PLANTING SPACED 3'-0" O.C.
GL	GROUNDCOVER: LIRIOPE MUSCARI	GREEN LIRIOPE	4" POTS	FULL PLANT; SPACED 12" O.C.

GENERAL NOTES

LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UTILITIES BEFORE BEGINNING WORK
 LANDSCAPE CONTRACTOR TO NOTIFY OWNER IF ANY SITE DISCREPANCIES OCCUR
 LANDSCAPE CONTRACTOR RESPONSIBLE FOR OBTAINING ALL RELEVANT PERMITS
 ALL PLANTING AREAS THAT ARE NOT INDICATED AS SHRUBS OR GROUNDCOVER ARE TO BE HYDROMULCH BERMUDA
 ALL LANDSCAPE AREAS TO BE WATERED BY A FULLY AUTOMATIC IRRIGATION SYSTEM WITH RAIN AND FREEZE SENSORS, DESIGNED BY A LICENSED IRRIGATOR
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REV	DATE	DESCRIPTION	BY	ENG	CHK	APP	REV	DATE	DESCRIPTION	BY	ENG	CHK	APP



LINDA TYCHER
 & ASSOCIATES
 LANDSCAPE ARCHITECTS

Turner Collie & Braden Inc.
 ENGINEERS • PLANNERS • PROJECT MANAGERS

DART PROJECT



SCALE	AS NOTED
DRAWN	C. WALKER
DESIGNED	C. WALKER
CHECKED	L. TYCHER
IN CHARGE	L. TYCHER
DATE	2 NOVEMBER 01

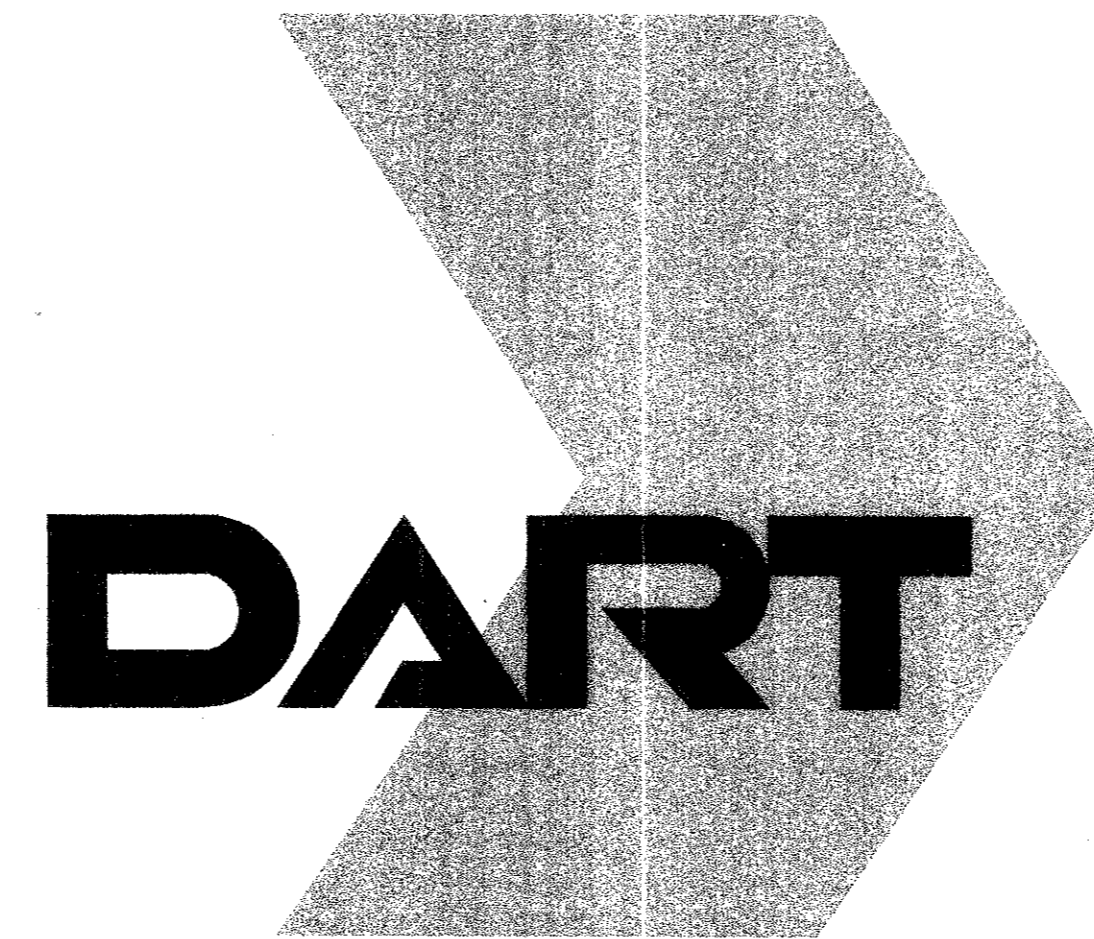
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**ADDISON
 TRANSIT CENTER
 LANDSCAPE
 DETAILS/NOTES**

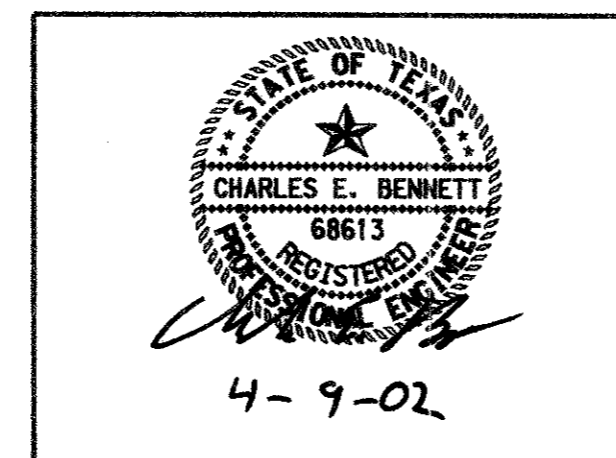
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ADDISON TRANSIT CENTER PARKING LOT EXPANSION

C-96000124-28



TurnerCollie & Braden Inc.
ENGINEERS • PLANNERS • PROJECT MANAGERS



INDEX

SHEET NO.	SHEET NAME
1	COVER SHEET
2	GENERAL NOTES & QUANTITIES
3	SITE PLAN
4	EXISTING BUS LANE EXPANSION
5	DRAINAGE AND GRADING PLAN
6	PAVEMENT JOINT LAYOUT
7	PAVEMENT MARKING AND SIGNING PLAN
8	MISCELLANEOUS DETAILS
9	SWPPP GENERAL NOTES
10	SWPPP STANDARD DETAILS
11 (L-S1)	LANDSCAPE DEVELOPMENT
12 (LS-2)	LANDSCAPE DETAILS/NOTES
13 (IRG-1)	LANDSCAPE IRRIGATION

TOWN OF ADDISON

RECOMMENDED:

ASSA. DIRECTOR OF PUBLIC WORKS 5-17-02
 DATE

DALLAS AREA RAPID TRANSIT

RECOMMENDED:

MAHESH KUITMIL, P.E. 5/10/02
 PROJECT MANAGER DATE
 MOBILITY PROGRAMS DEVELOPMENT

APPROVED:

KOOROSH OLYAI, P.E. 5/17/2002
 ASSISTANT VICE PRESIDENT DATE
 MOBILITY PROGRAMS DEVELOPMENT

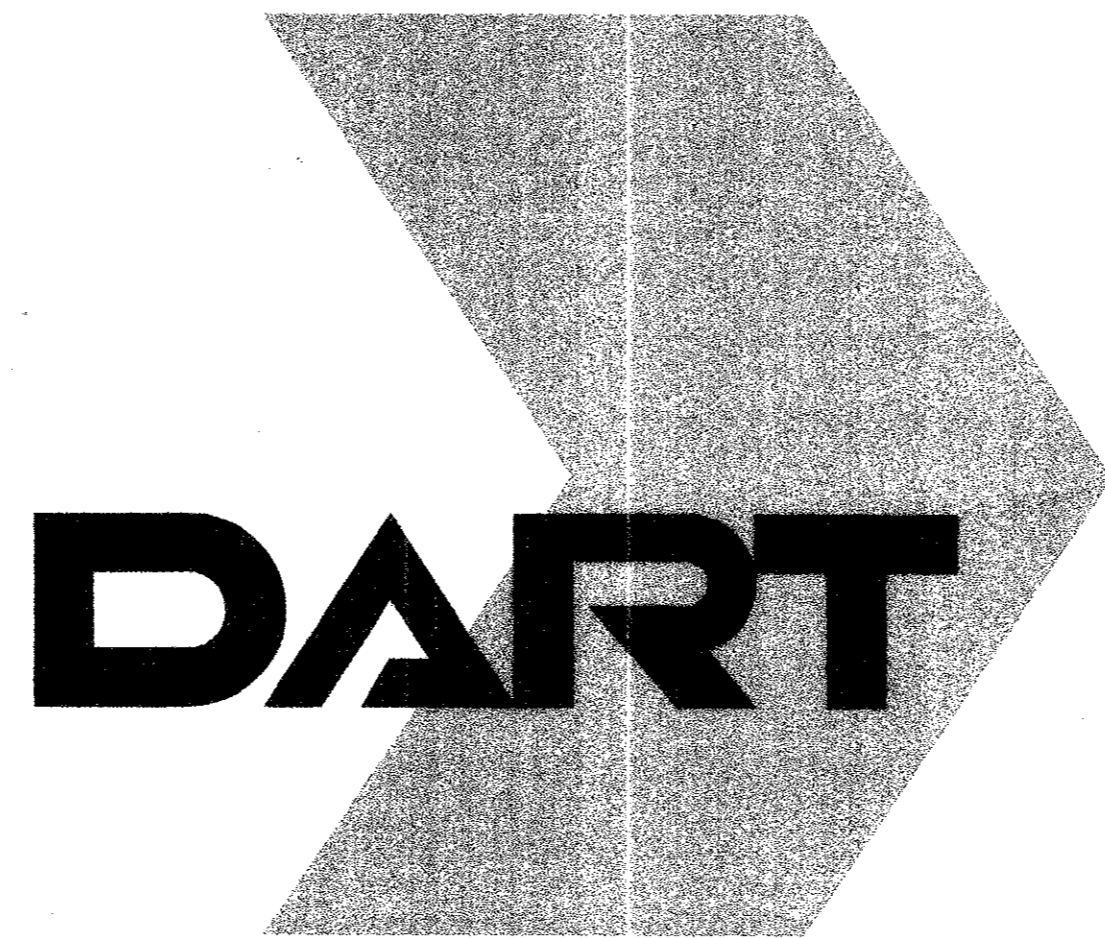
VART PARKING LOT

B15-7

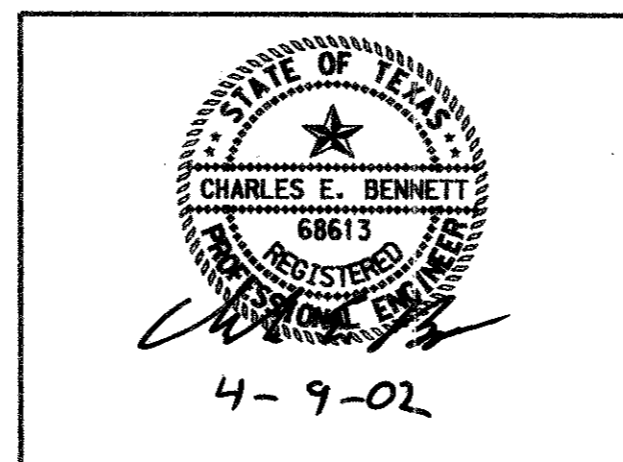
ADDISON TRANSIT CENTER PARKING LOT EXPANSION

C-96000124-28

4924 ARAPAHOS DART Parking Lot Extension 5/02



TurnerCollie & Braden Inc.
ENGINEERS • PLANNERS • PROJECT MANAGERS



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12 (LS-2)	LANDSCAPE DETAILS/NOTES
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TOWN OF ADDISON

RECOMMENDED:

James A. Smith 5-17-02
ASSA, DIRECTOR OF PUBLIC WORKS DATE

DALLAS AREA RAPID TRANSIT

RECOMMENDED:

Mahesh Kuumil 5/10/02
MAHESH KUMIL, P.E. DATE
PROJECT MANAGER
MOBILITY PROGRAMS DEVELOPMENT

APPROVED:

Koorosh Olyai 5/17/2002
KOOROSH OLYAI, P.E. DATE
ASSISTANT VICE PRESIDENT
MOBILITY PROGRAMS DEVELOPMENT

B15-7
1 OF 13

DART PARKING LOT EXP.

GENERAL NOTES

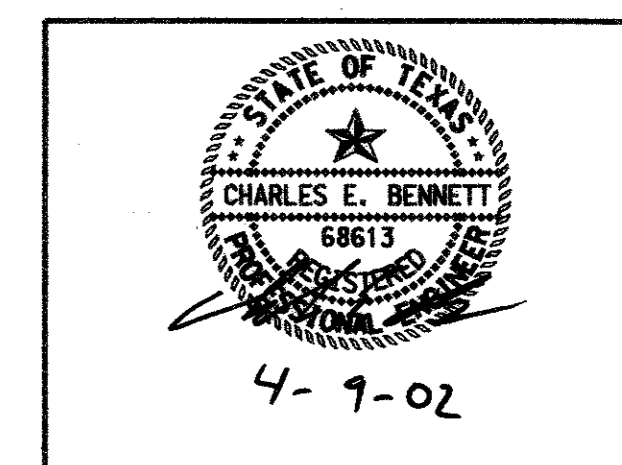
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QUANTITY SUMMARY

NO.	DESCRIPTION	UNIT	QUANTITY
1	MOBILIZATION	LS	1
2	CLEARING	LS	1
3	REMOVE TREE	EA	3
4	REMOVE SIGN POST	EA	1
5	REMOVE IRRIGATION VALVES	EA	3
6	FULL DEPTH SAWCUT	LF	587
7	REINFORCED CONCRETE PAVEMENT REMOVAL	SY	195
8	REMOVE CONCRETE CURB & GUTTER	LF	511
9	LIME STABILIZATION BASE	TON	31
10	SUBGRADE PREPARATION	SY	1863
11	8" 3600 PSI CONCRETE PAVEMENT	SY	1863
12	6" MONOLITHIC CURB & GUTTER	LF	1370
13	BARRIER-FREE RAMP	EA	1
14	4" SOLID WHITE THERMOPLASTIC PAINT STRIPING	LF	540
15	24" SOLID WHITE THERMOPLASTIC CROSSWALK PAINT STRIPING	LF	56
16	STREET AND TRAFFIC CONTROL SIGNS	EA	8
17	TRAFFIC CONTROL-BARRICADES AND DETOURS	LS	1
18	2' X2' GRATE INLET	EA	2
19	18" CLASS III RCP	LF	90
20	18" 60° RCP BEND	EA	1
21	18"x18" 60° RCP WYE CONNECTION	EA	1
22	6" THICK x 18" LONG CONCRETE COLLAR	EA	2
23	TRENCH SAFETY	LF	90
24	GEOTEXTILE SILT FENCING	LF	659
25	"SHUMARD" RED OAK, 65 GALLON	EA	6
26	CREPEMYRTLE, 45 GALLON	EA	6
27	BURFORD HOLLY, 5 GALLON	EA	33
28	GREEN LIRIOPE GROUNDCOVER, 4" POTS	EA	1225
29	BED PREPARATION	SF	1520
30	STEEL EDGING	LF	100
31	HYDROMULCH BERMUDA LAWN	SF	4040
32	IRRIGATION	SF	5560



CONTRACT SHEET NO. 2 OF 13

ADDISON
TRANSIT CENTER
GENERAL NOTES
AND QUANTITIES

DART PROJECT



SCALE	
DRAWN	J. RATCLIFF
DESIGNED	J. RATCLIFF
CHECKED	C. BENNETT
IN CHARGE	G. SHIPPY
DATE	APRIL 2002

CONTRACT C-96000124-28 DWG NO. REV 0

REV	DATE	DESCRIPTION	BY	ENG	CHK	APP	REV	DATE	DESCRIPTION	BY	ENG	CHK	APP

TURNER COLLIE & BRADEN INC.

LINDA TYCHER & ASSOCIATES

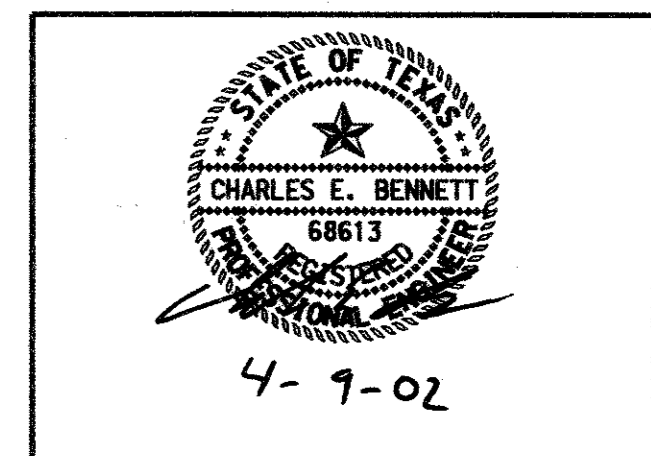
ARS ENGINEERS INC.

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13	BARRIER-FREE RAMP	EA	1
14	4" SOLID WHITE THERMOPLASTIC PAINT STRIPING	LF	540
15	24" SOLID WHITE THERMOPLASTIC CROSSWALK PAINT STRIPING	LF	56
16	STREET AND TRAFFIC CONTROL SIGNS	EA	8
17	TRAFFIC CONTROL-BARRICADES AND DETOURS	LS	1
18	2' X2' GRATE INLET	EA	2
19	18" CLASS III RCP	LF	90
20	18" 60° RCP BEND	EA	1
21	18"x18" 60° RCP WYE CONNECTION	EA	1
22	6" THICK x 18" LONG CONCRETE COLLAR	EA	2
23	TRENCH SAFETY	LF	90
24	GEOTEXTILE SILT FENCING	LF	659
25	"SHUMARD" RED OAK, 65 GALLON	EA	6
26	CREPEMYRTLE, 45 GALLON	EA	6
27	BURFORD HOLLY, 5 GALLON	EA	33
28	GREEN LIRIOPE GROUNDCOVER, 4" POTS	EA	1225
29	BED PREPARATION	SF	1520
30	STEEL EDGING	LF	100
31	HYDROMULCH BERMUDA LAWN	SF	4040
32	IRRIGATION	SF	5560



CONTRACT SHEET NO. 2 OF 13

ADDISON
TRANSIT CENTER
GENERAL NOTES
AND QUANTITIES

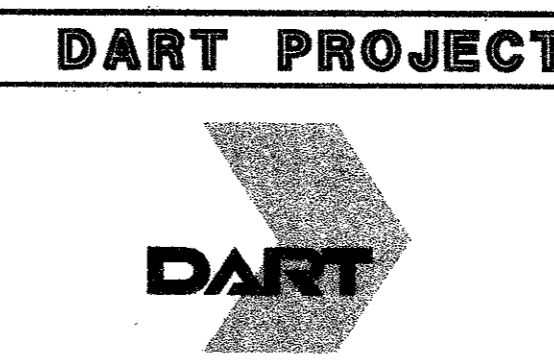
CONTRACT C-96000124-28 DWG NO. REV 0

REV	DATE	DESCRIPTION	BY	ENG	CHK	APP	REV	DATE	DESCRIPTION	BY	ENG	CHK	APP

TURNER COLLIE & BRADEN INC.

LINDA TYCHER & ASSOCIATES

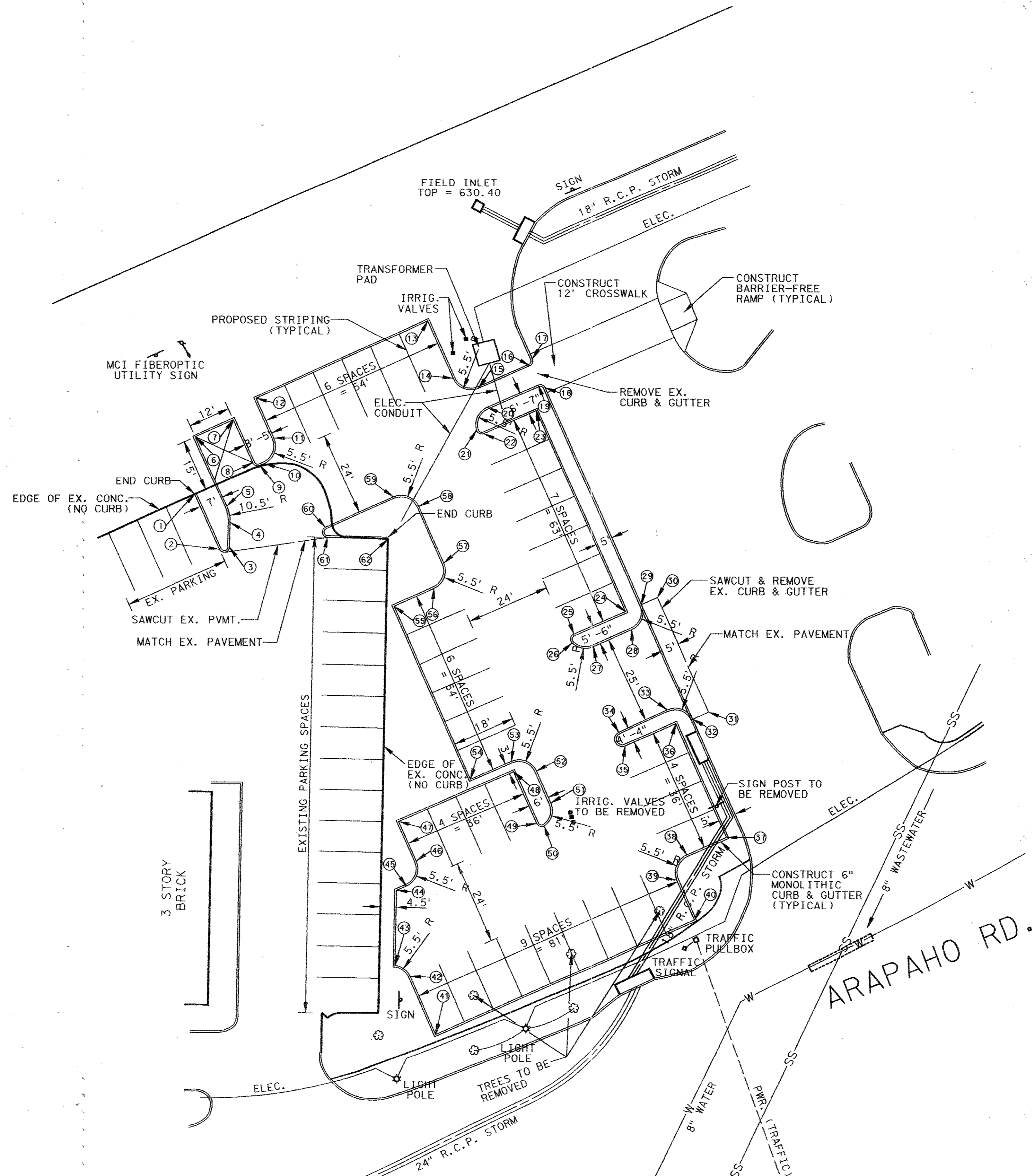
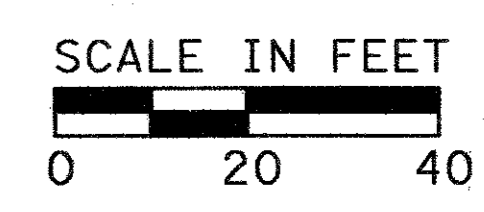
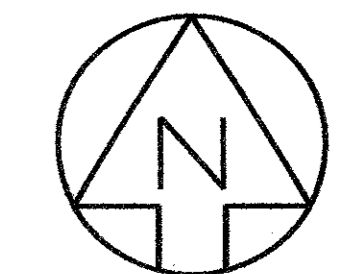
ARS ENGINEERS INC.



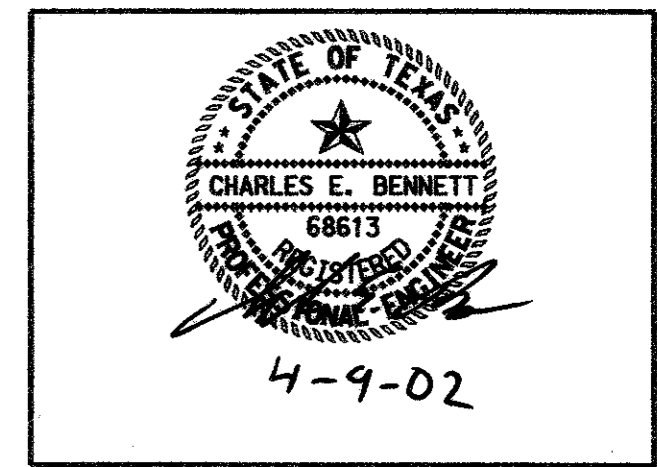
SCALE
DRAWN J. RATCLIFF
DESIGNED J. RATCLIFF
CHECKED C. BENNETT
IN CHARGE G. SHIPPY
DATE APRIL 2002

REFERENCE POINTS		
#	NORTHING	EASTING
1	10920.8449	12110.6895
2	10905.0626	12117.8474
3	10905.6479	12120.7131
4	10912.8135	12120.8772
5	10917.3908	12119.9424
6	10937.3969	12110.9698
7	10942.3534	12121.7973
8	10930.0588	12127.3734
9	10929.3123	12129.3591
10	10929.8905	12130.6340
11	10937.1296	12133.3898
12	10948.5979	12128.3025
13	10970.9031	12177.4826
14	10954.4702	12184.7721
15	10951.6671	12192.0168
16	10958.1260	12206.6798
17	10960.1066	12207.4465
18	10951.8788	12211.0939
19	10952.6436	12209.1179
20	10946.1940	12194.4759
21	10939.5041	12191.4484
22	10938.5847	12193.4870
23	10945.2652	12208.5469
24	10887.6770	12234.0928
25	10881.1048	12219.2770
26	10878.6556	12218.8422
27	10877.5808	12224.8968
28	10882.4467	12235.8659
29	10889.7044	12238.6633
30	10891.7587	12243.2218
31	10859.0988	12257.9190
32	10857.0519	12253.3571
33	10859.7308	12246.0548
34	10853.3260	12232.2278
35	10849.3943	12234.0075
36	10855.8037	12248.5027
37	10822.8787	12263.0611
38	10817.8237	12251.6291
39	10810.5693	12248.8231
40	10799.1371	12253.8781
41	10766.3804	12179.7971
42	10782.8428	12172.5178
43	10786.0777	12168.1569
44	10807.3467	12168.5880
45	10808.5927	12171.4059
46	10815.8471	12174.2118
47	10827.2793	12169.1568
48	10841.8379	12202.0817
49	10826.7473	12208.7544
50	10826.0257	12210.8116
51	10832.7996	12212.7518
52	10842.0197	12208.6749
53	10844.8257	12201.4205
54	10839.6661	12189.7518
55	10889.0275	12167.8553
56	10894.0799	12179.2816
57	10901.3403	12182.0850
58	10917.5269	12174.9047
59	10920.3056	12167.6054
60	10911.4867	12148.1609
61	10908.6210	12148.7461
62	10908.2243	12166.0712

NOTE:
ALL REFERENCE POINTS ARE
TAKEN AT FACE OF CURB.



NOTE: SEE SHEET 4 FOR INFORMATION
IN THIS AREA.

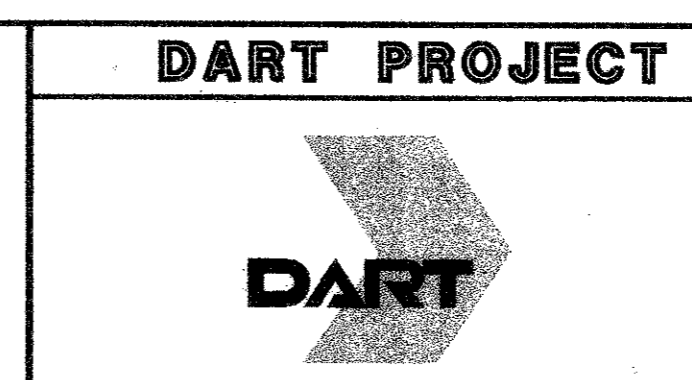


CONTRACT SHEET NO. 3 OF 13

ADDISON
TRANSIT CENTER
SITE PLAN

REV	DATE	DESCRIPTION	BY	ENG	CHK	APP	REV	DATE	DESCRIPTION	BY	ENG	CHK	APP

TURNER COLLIE & BRADEN INC.
LINDA TYCHER & ASSOCIATES
ARS ENGINEERS INC.

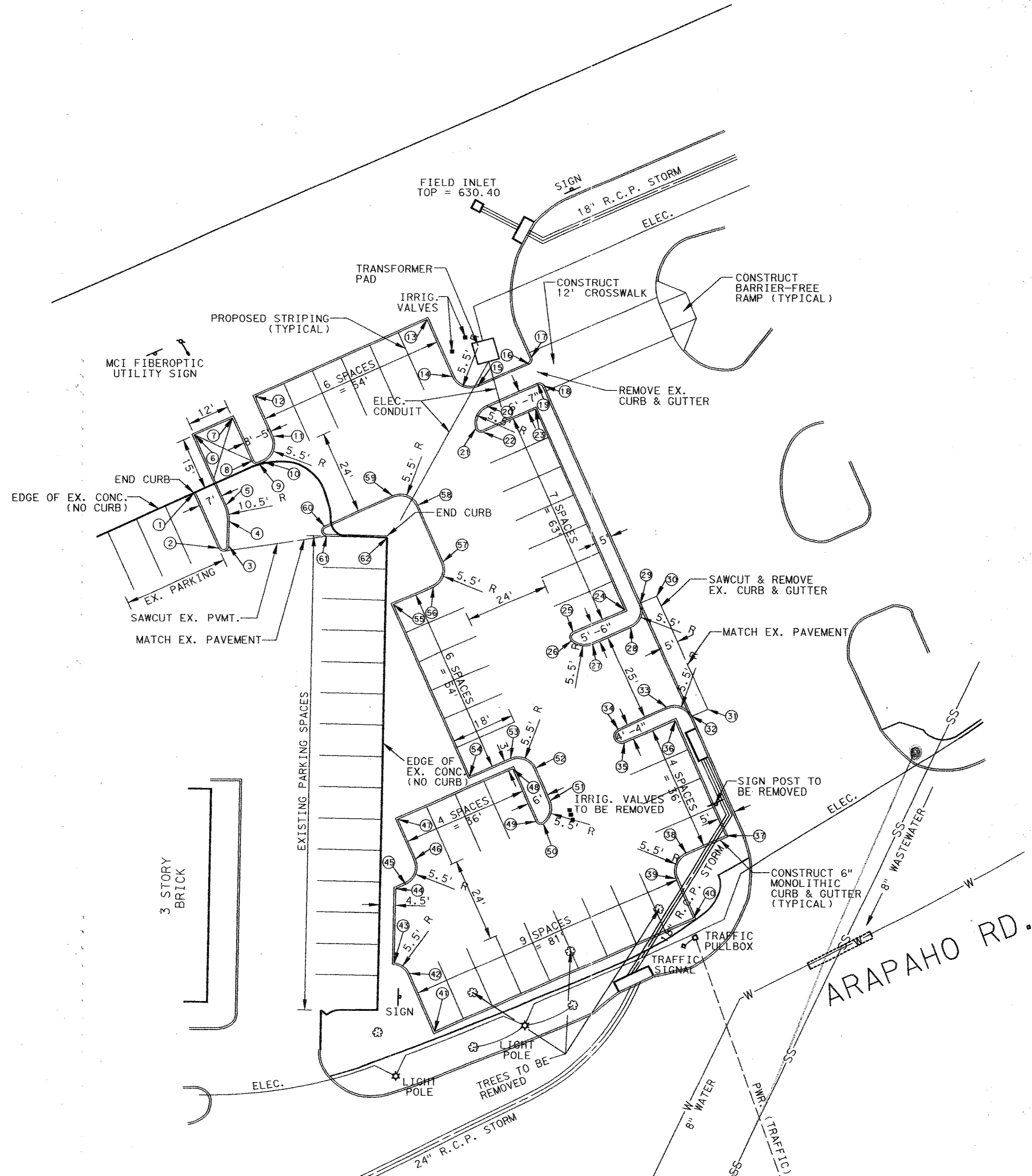
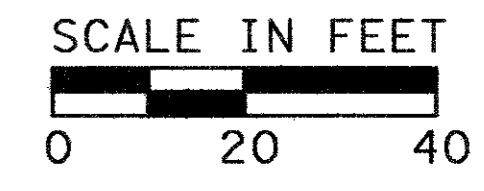
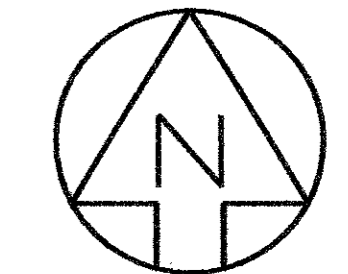


SCALE	1"=20'
DRAWN	J. RATCLIFF
DESIGNED	J. RATCLIFF
CHECKED	C. BENNETT
IN CHARGE	G. SHIPPY
DATE	APRIL 2002

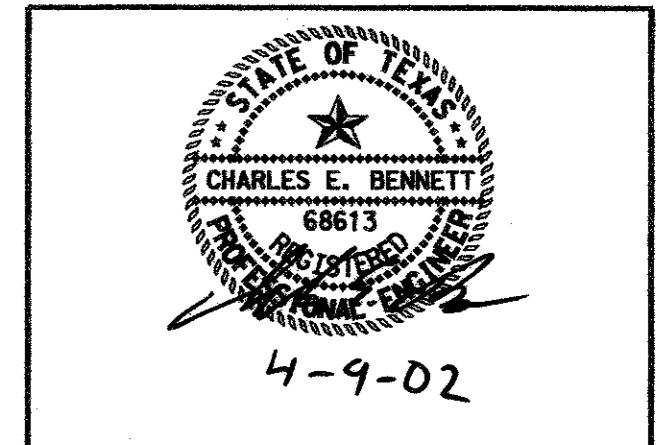
CONTRACT C-96000124-28 DWG NO. REV 0

REFERENCE POINTS		
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1	10920.8449	12110.6895
2	10905.0626	12117.8474
3	10905.6439	12120.7131
4	10912.8135	12120.8772
5	10917.3908	12119.9424
6	10937.3969	12110.8688
7	10942.3534	12121.7973
8	10930.0588	12127.3734
9	10929.3123	12129.3591
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11	10937.1296	12133.3898
12	10948.5979	12128.3025
13	10970.9031	12177.4826
14	10954.4702	12184.7721
15	10951.6671	12192.0168
16	10958.1260	12206.6798
17	10960.1066	12207.4465
18	10951.8788	12211.0939
19	10952.6436	12209.1179
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21	10939.5041	12191.4484
22	10938.5847	12193.4870
23	10945.2652	12208.5469
24	10887.6770	12234.0928
25	10881.1048	12219.2770
26	10878.6556	12218.8422
27	10877.5808	12224.8968
28	10882.4467	12235.8659
29	10889.7044	12238.6633
30	10891.7587	12243.2218
31	10859.0988	12257.9190
32	10857.0519	12253.3571
33	10859.7308	12246.0548
34	10853.3260	12232.2278
35	10849.3943	12234.0075
36	10855.8037	12248.5027
37	10822.8787	12263.0611
38	10817.8237	12251.6291
39	10810.5693	12248.8231
40	10799.1371	12253.8781
41	10766.3804	12179.7971
42	10782.8428	12172.5178
43	10786.0777	12168.1569
44	10807.3467	12168.5880
45	10808.5927	12171.4059
46	10815.8471	12174.2118
47	10827.2793	12169.1568
48	10841.8379	12202.0817
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52	10842.0197	12208.6749
53	10844.8257	12201.4205
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55	10889.0275	12167.8553
56	10894.0799	12179.2816
57	10901.3403	12182.0850
58	10917.5269	12174.9047
59	10920.3056	12167.6054
60	10911.4867	12148.1609
61	10908.6210	12148.7461
62	10908.2243	12166.0712

NOTE:
ALL REFERENCE POINTS ARE
TAKEN AT FACE OF CURB.



NOTE: SEE SHEET 4 FOR INFORMATION
IN THIS AREA.



REV	DATE	DESCRIPTION	BY	ENG	CHK	APP	REV	DATE	DESCRIPTION	BY	ENG	CHK	APP

TURNER COLLIE & BRADEN INC.

LINDA TYCHER & ASSOCIATES

ARS ENGINEERS INC.

DART PROJECT

SCALE: 1"=20'
DRAWN: J. RATCLIFF
DESIGNED: J. RATCLIFF
CHECKED: C. BENNETT
IN CHARGE: G. SHIPPY
DATE: APRIL 2002

CONTRACT SHEET NO. 3 OF 13

**ADDISON
TRANSIT CENTER
SITE PLAN**

CONTRACT C-96000124-28 DWG NO. REV 0

① P.C. STA.
N. = 10998.05
E. = 12207.93

② P.T. STA.
N. = 11019.86
E. = 12236.52
R. = 73.81'

③ P.C. STA.
N. = 11066.44
E. = 12343.27

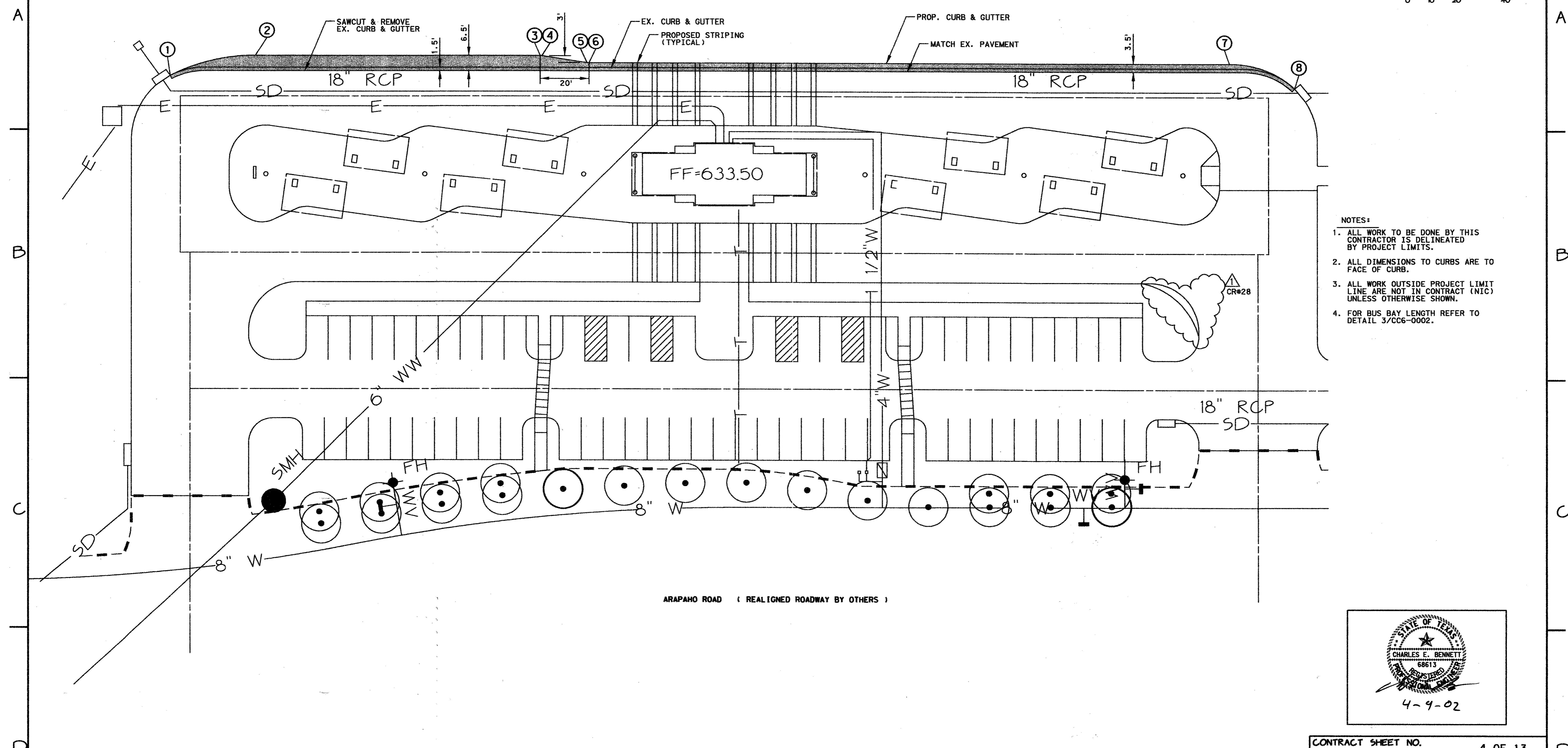
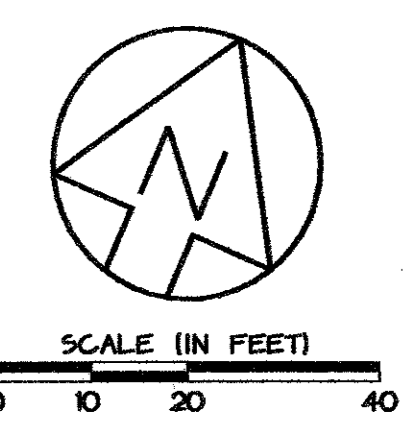
④ P.T. STA.
N. = 11066.69
E. = 12343.99
R. = 5'

⑤ P.C. STA.
N. = 11071.43
E. = 12362.09

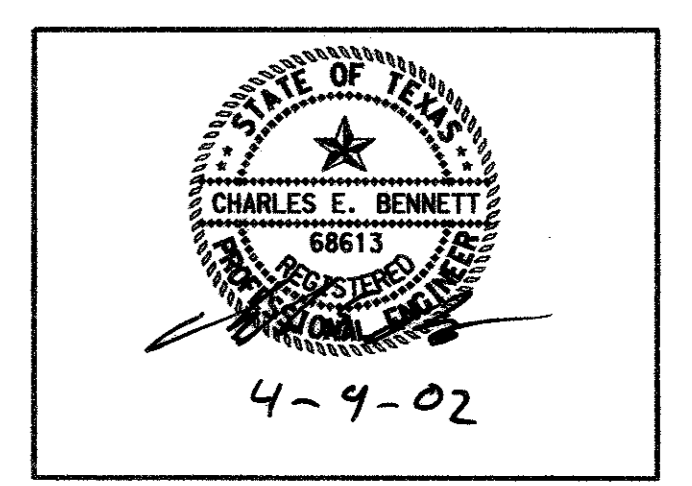
⑥ P.T. STA.
N. = 11071.68
E. = 12362.80
R. = 5'

⑦ P.C. STA.
N. = 11176.39
E. = 12602.82

⑧ P.T. STA.
N. = 11177.60
E. = 12631.36
R. = 38.38'



- NOTES:
1. ALL WORK TO BE DONE BY THIS CONTRACTOR IS DELINEATED BY PROJECT LIMITS.
 2. ALL DIMENSIONS TO CURBS ARE TO FACE OF CURB.
 3. ALL WORK OUTSIDE PROJECT LIMIT LINE ARE NOT IN CONTRACT (NIC) UNLESS OTHERWISE SHOWN.
 4. FOR BUS BAY LENGTH REFER TO DETAIL 3/CC6-0002.



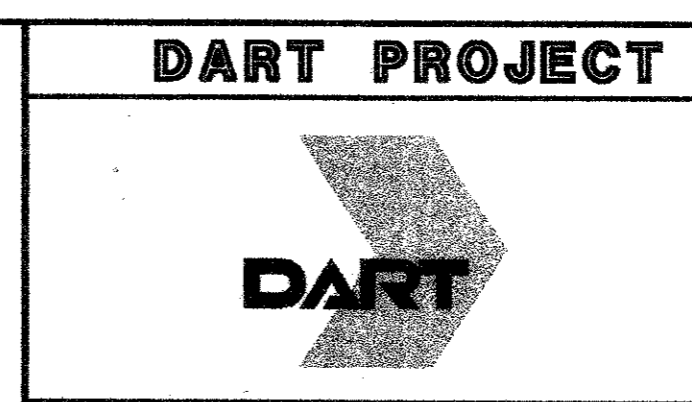
CONTRACT SHEET NO. 4 OF 13

**ADDISON
TRANSIT CENTER
EXISTING BUS LANE
EXPANSION**

CONTRACT C-96000124-28 DWG NO. REV 0

REV	DATE	DESCRIPTION	BY	ENG	CHK	APP	REV	DATE	DESCRIPTION	BY	ENG	CHK	APP

TURNER COLLIE & BRADEN INC.
LINDA TYCHER & ASSOCIATES
ARS ENGINEERS INC.



SCALE	
SCALE	1"=20'
DRAWN	J. RATCLIFF
DESIGNED	J. RATCLIFF
CHECKED	G. BENNETT
IN CHARGE	G. SHIPPY
DATE	APRIL 2002

① P.C. STA.
N. = 10998.05
E. = 12207.93

② P.T. STA.
N. = 11019.86
E. = 12236.52
R. = 73.81'

③ P.C. STA.
N. = 11066.44
E. = 12343.27

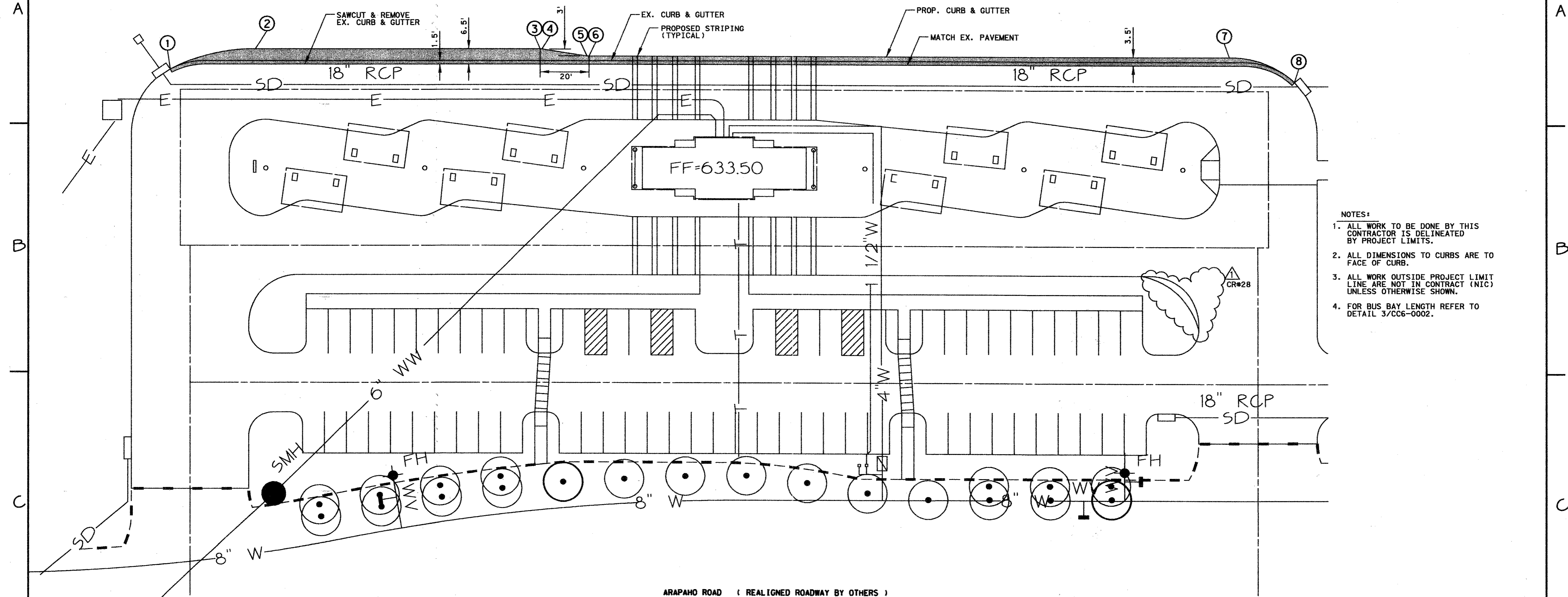
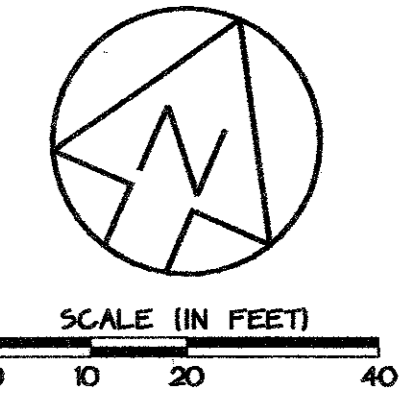
④ P.T. STA.
N. = 11066.69
E. = 12343.99
R. = 5'

⑤ P.C. STA.
N. = 11071.43
E. = 12362.09

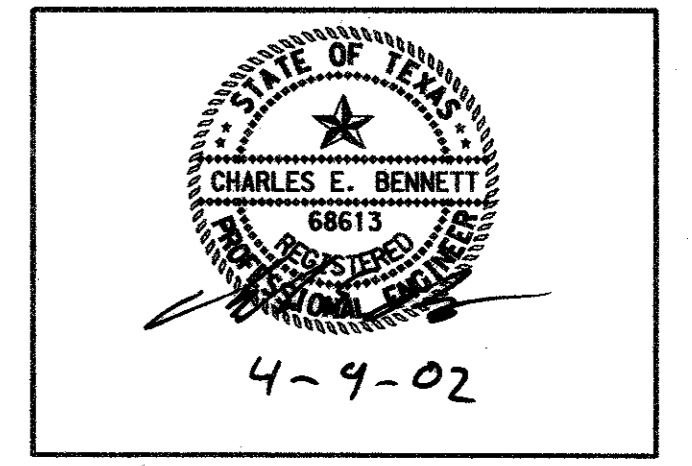
⑥ P.T. STA.
N. = 11071.68
E. = 12362.80
R. = 5'

⑦ P.C. STA.
N. = 11176.39
E. = 12602.82

⑧ P.T. STA.
N. = 11177.60
E. = 12631.36
R. = 38.38'



- NOTES:
1. ALL WORK TO BE DONE BY THIS CONTRACTOR IS DELINEATED BY PROJECT LIMITS.
 2. ALL DIMENSIONS TO CURBS ARE TO FACE OF CURB.
 3. ALL WORK OUTSIDE PROJECT LIMIT LINE ARE NOT IN CONTRACT (NIC) UNLESS OTHERWISE SHOWN.
 4. FOR BUS BAY LENGTH REFER TO DETAIL 3/CC6-0002.



CONTRACT SHEET NO. 4 OF 13

ADDISON
TRANSIT CENTER
EXISTING BUS LANE
EXPANSION

CONTRACT C-96000124-28 DWG NO. REV 0

REV	DATE	DESCRIPTION	BY	ENG	CHK	APP	REV	DATE	DESCRIPTION	BY	ENG	CHK	APP
△							△						
△							△						
△							△						
△							△						
△							△						

TURNER COLLIE & BRADEN INC.
LINDA TYCHER & ASSOCIATES
ARS ENGINEERS INC.

DART PROJECT

SCALE: 1"=20'

DRAWN: J. RATCLIFF
DESIGNED: J. RATCLIFF
CHECKED: C. BENNETT
IN CHARGE: G. SHIPPY
DATE: APRIL 2002

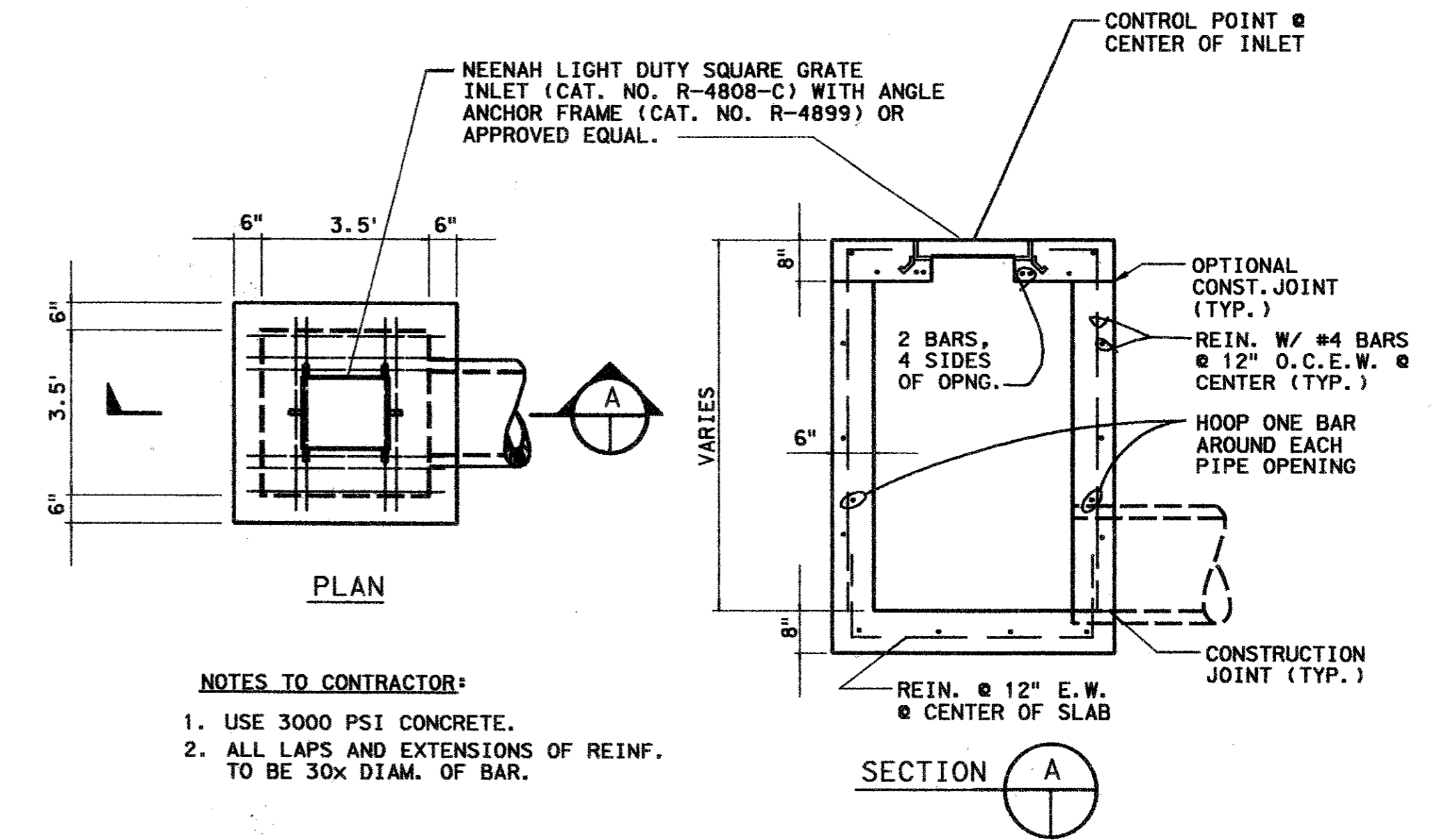
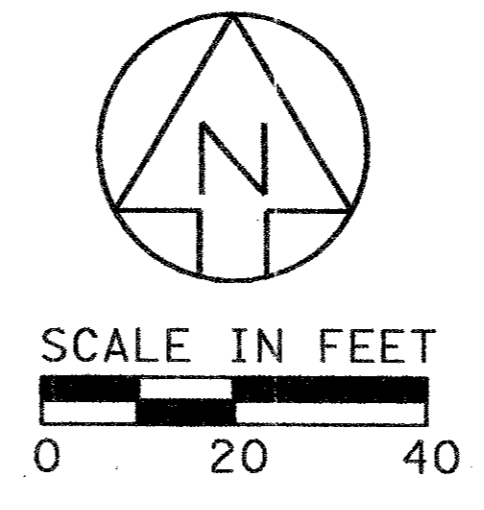
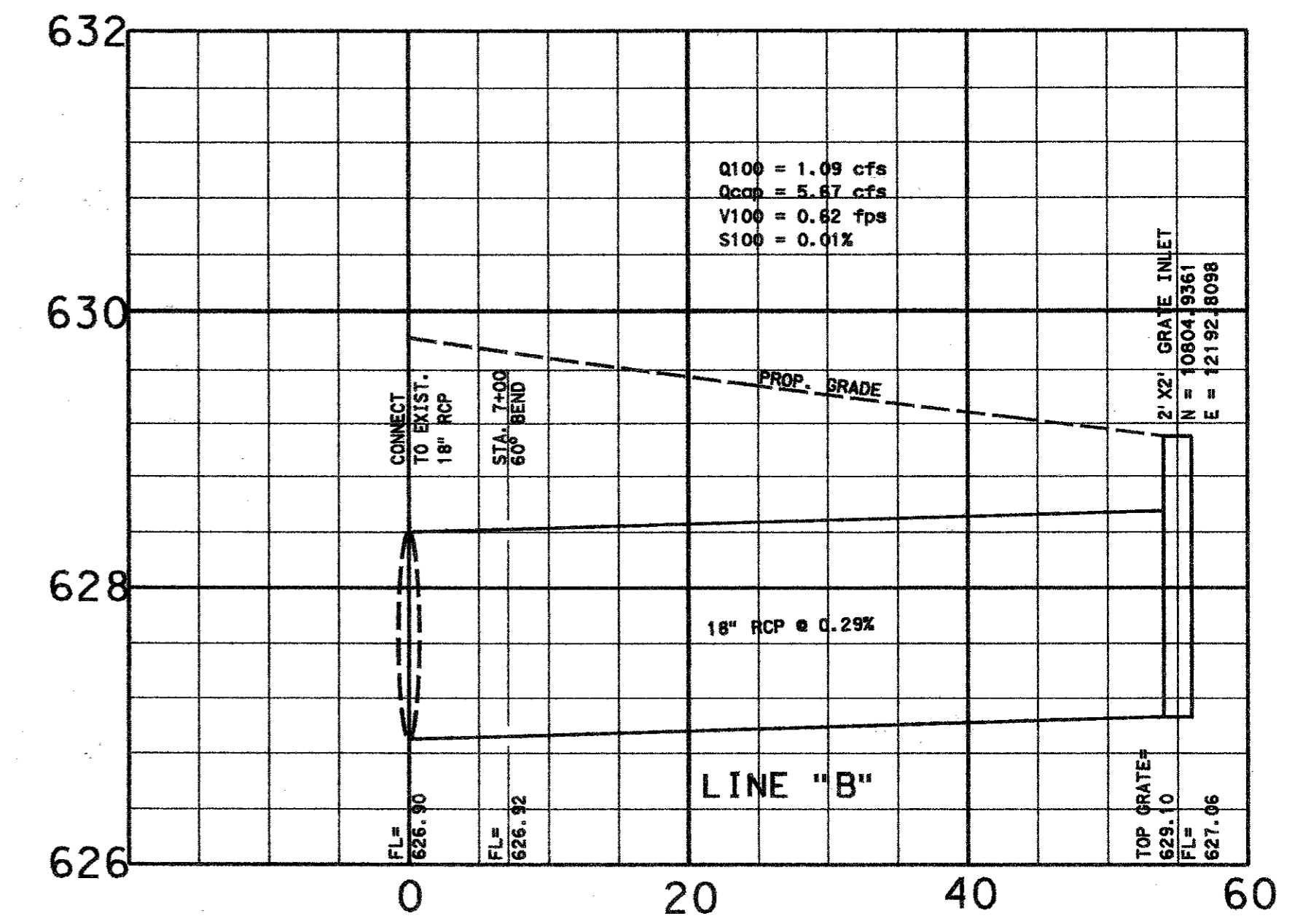
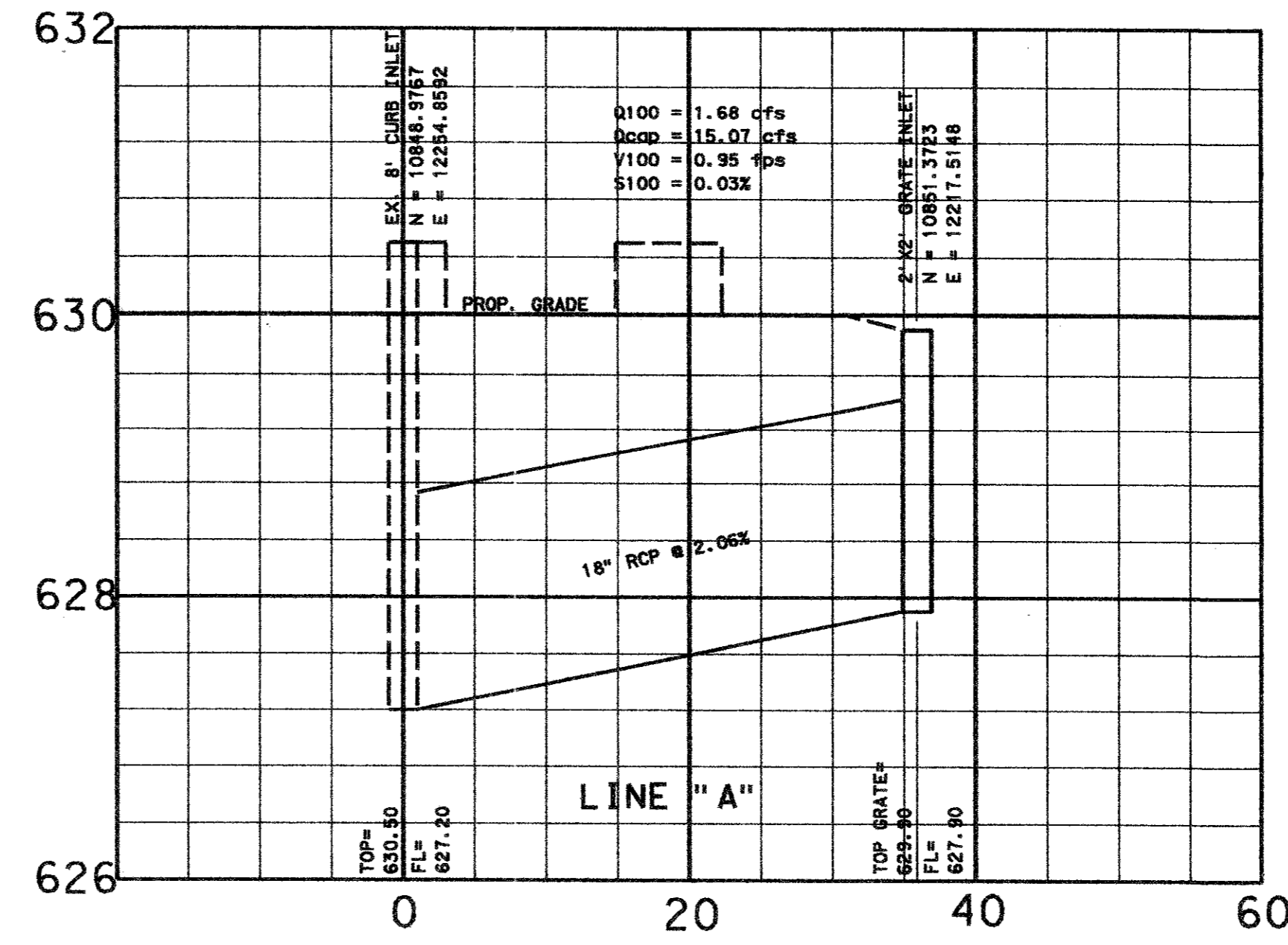
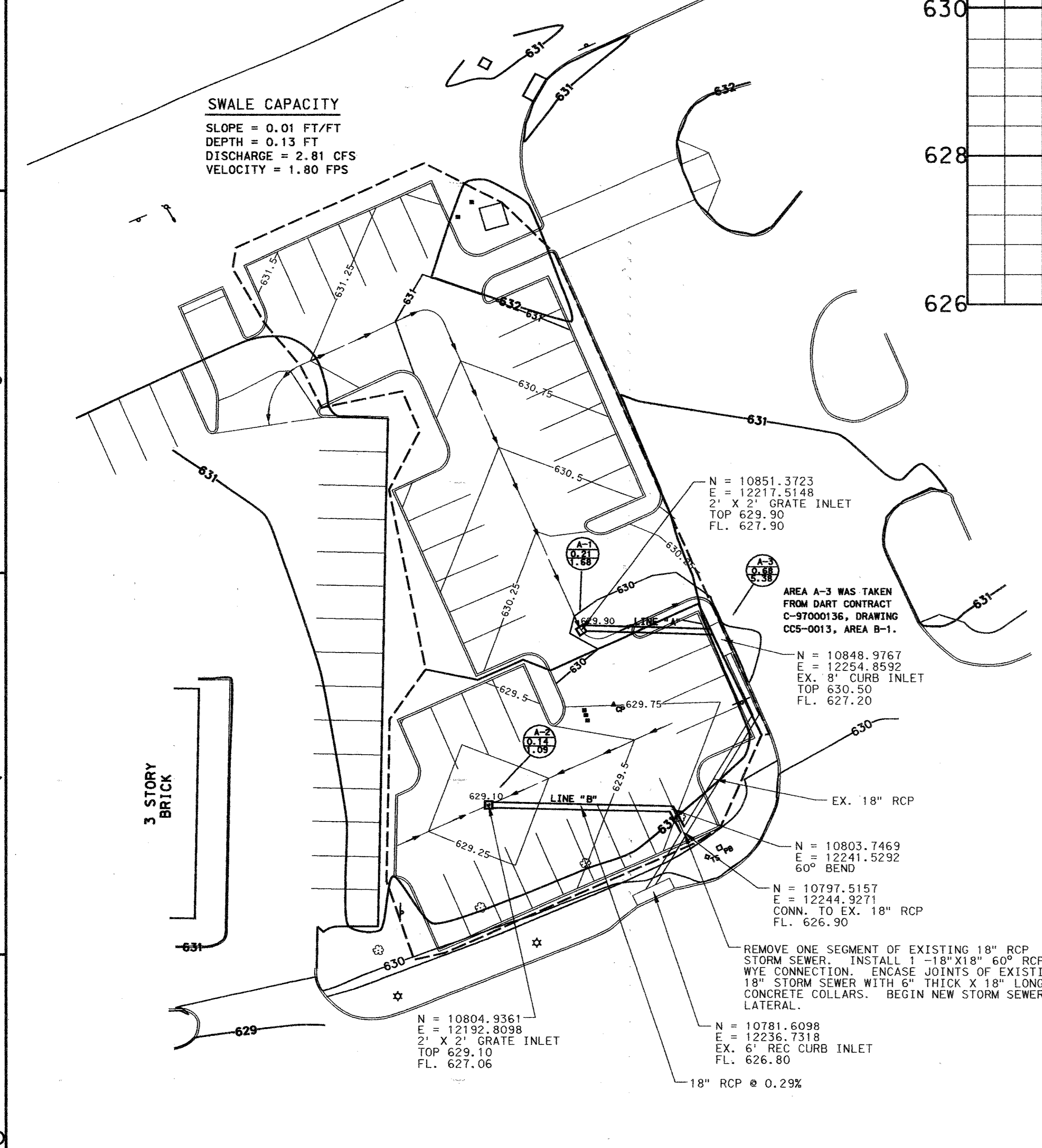
LEGEND

- DRAINAGE AREA DIVIDES
- DRAINAGE FLOW ARROWS
- DRAINAGE AREA NUMBER
- DRAINAGE AREA IN ACRES
- 100 YEAR STORM RUNOFF IN c.f.s.
- WHERE C=0.90
- $I_{100}=8.74 (T/C=10 \text{ MIN.})$

$Q_{100}=CIA$

SWALE CAPACITY

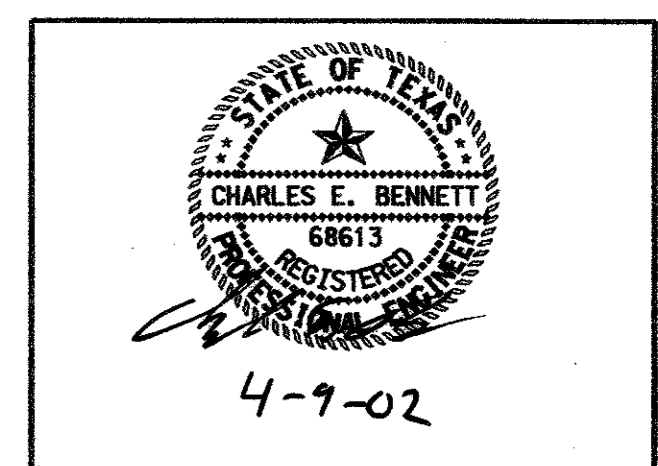
SLOPE = 0.01 FT/FT
 DEPTH = 0.13 FT
 DISCHARGE = 2.81 CFS
 VELOCITY = 1.80 FPS



NOTES TO CONTRACTOR:

- USE 3000 PSI CONCRETE.
- ALL LAPS AND EXTENSIONS OF REINF. TO BE 30x DIAM. OF BAR.

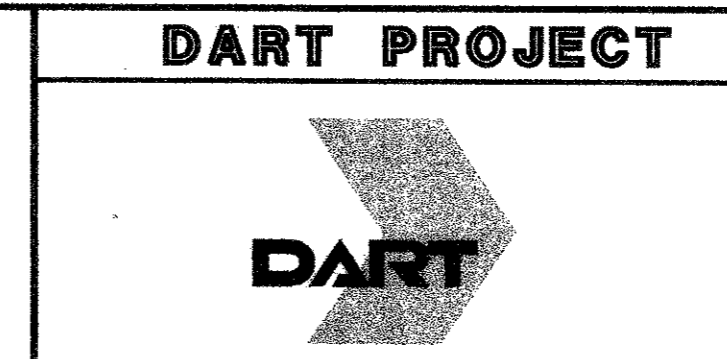
STANDARD SURFACE INLET
N.T.S.



CONTRACT SHEET NO. 5 OF 13

REV	DATE	DESCRIPTION	BY	ENG	CHK	APP	REV	DATE	DESCRIPTION	BY	ENG	CHK	APP

TURNER COLLIE & BRADEN INC.
 LINDA TYCHER & ASSOCIATES
 ARS ENGINEERS INC.



SCALE 1"=20'

DRAWN J. RATCLIFF
 DESIGNED J. RATCLIFF
 CHECKED C. BENNETT
 IN CHARGE G. SHIPPY
 DATE APRIL 2002

**ADDISON
 TRANSIT CENTER
 DRAINAGE +
 GRADING PLAN**

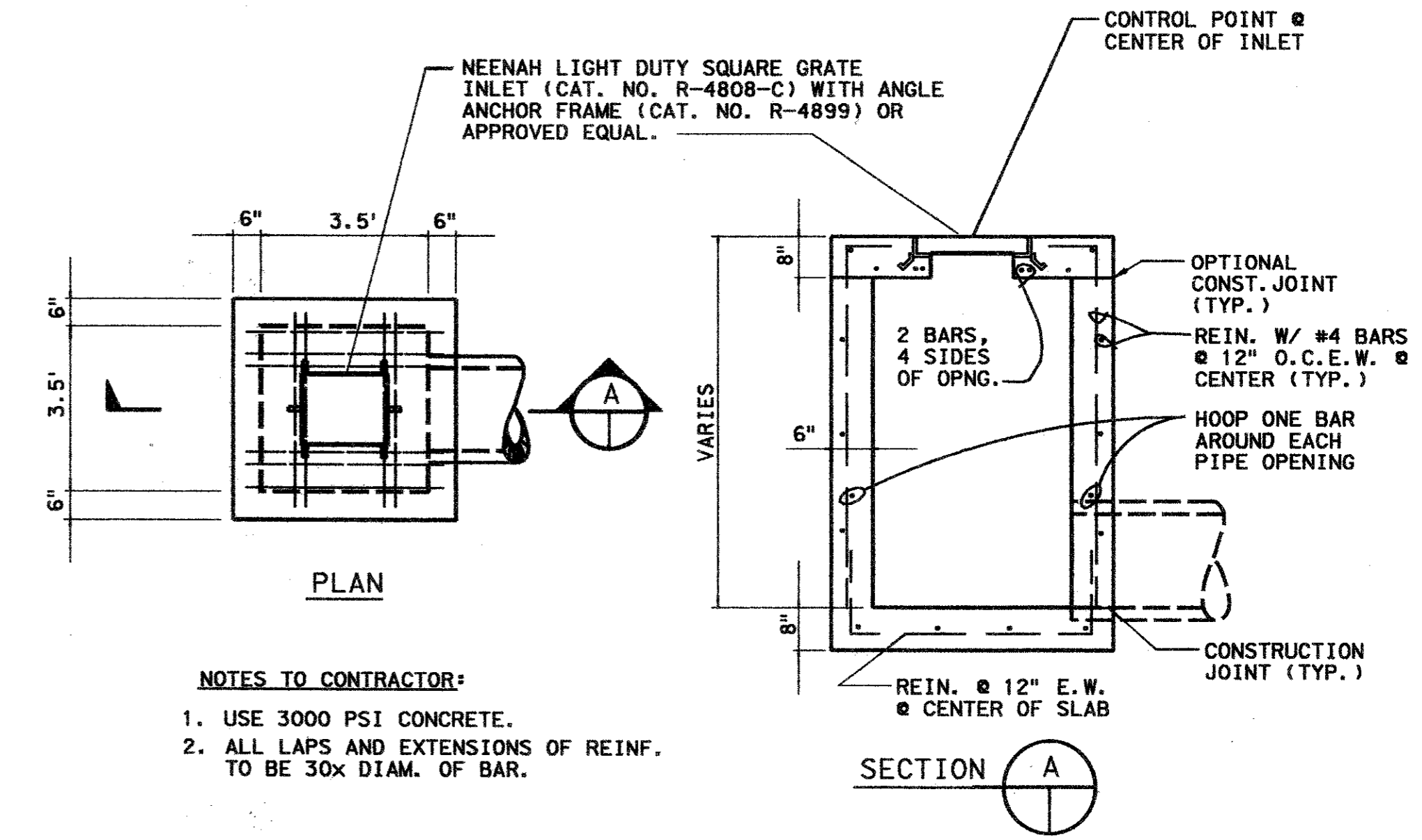
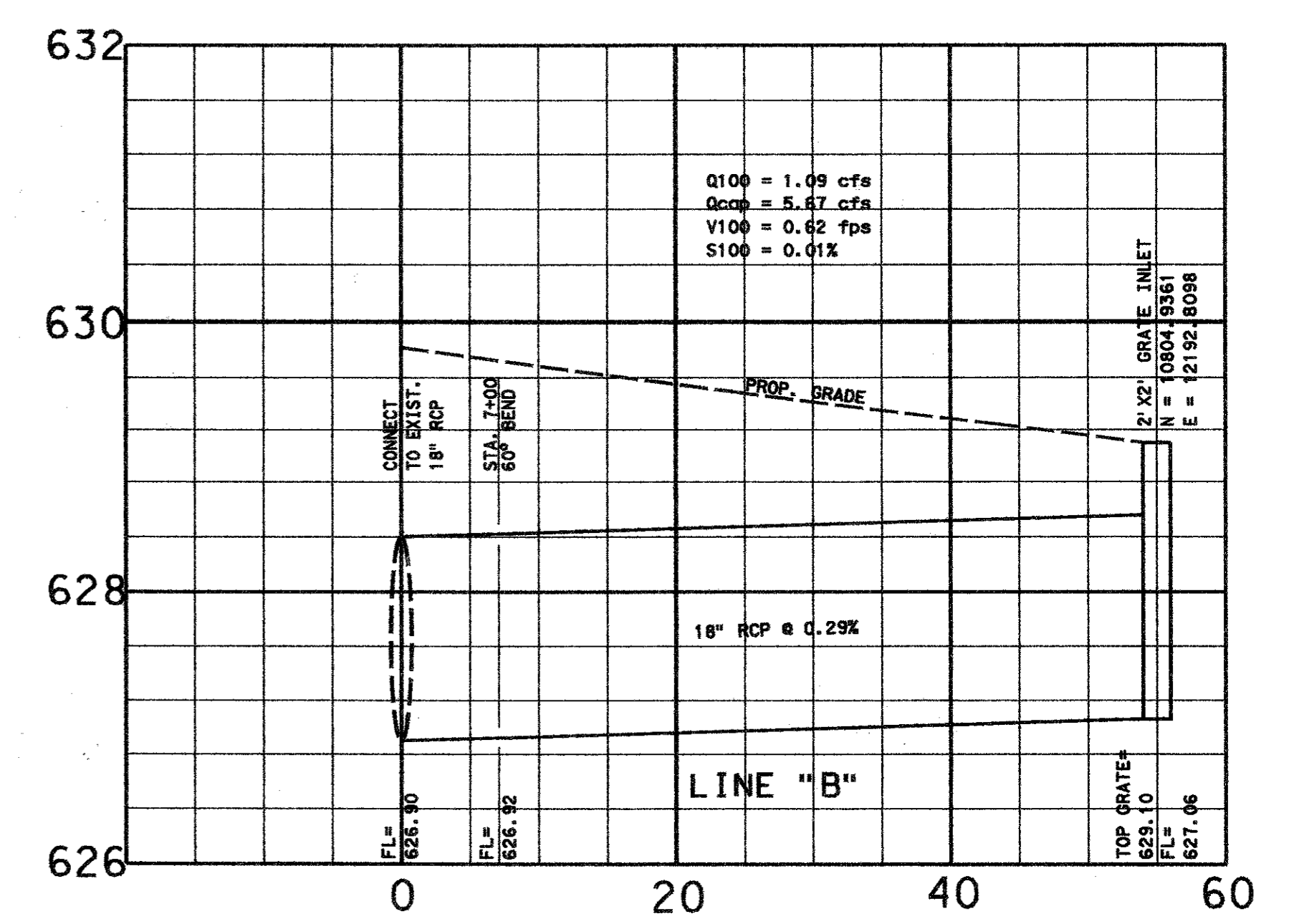
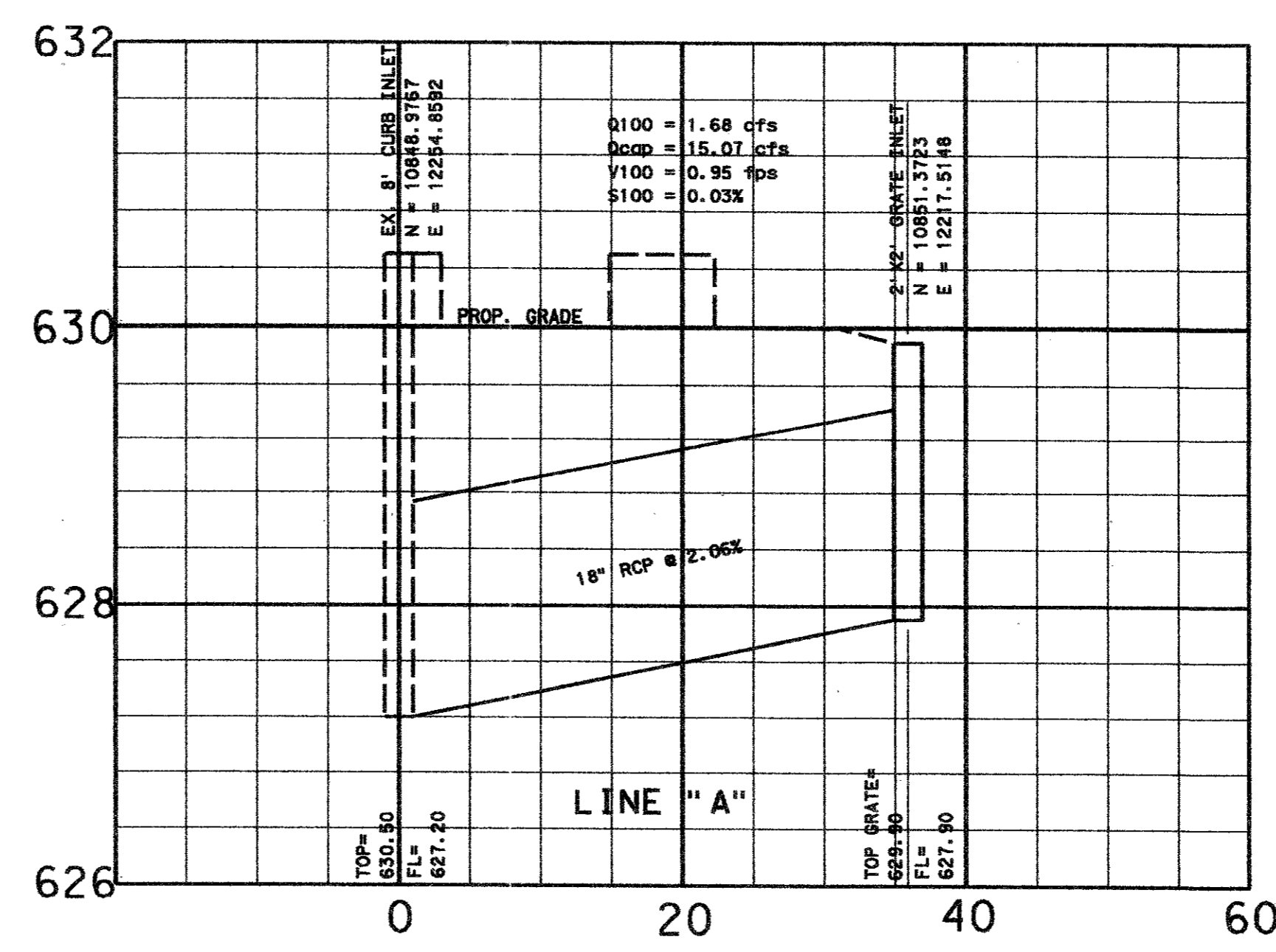
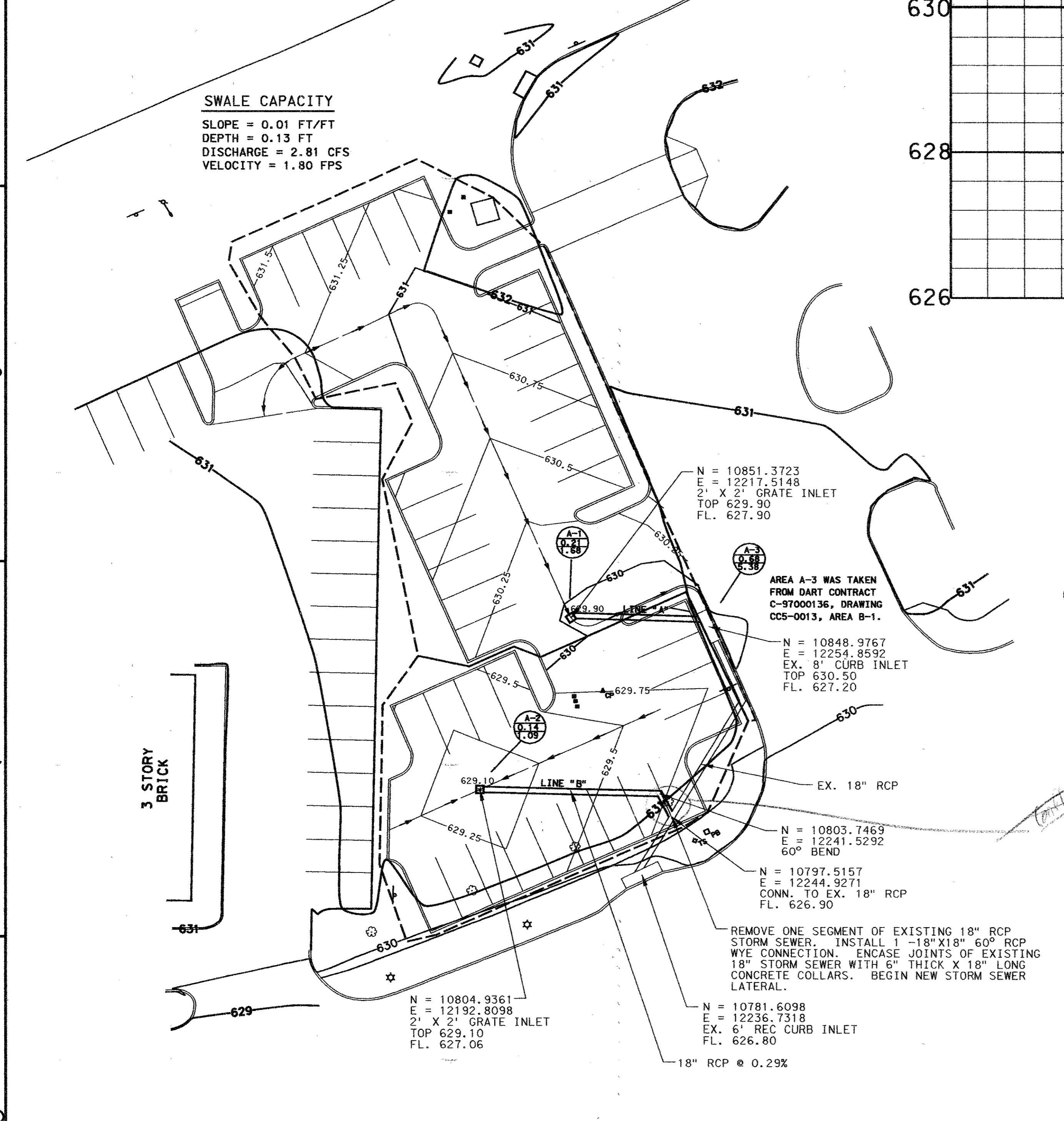
CONTRACT C-96000124-28 DWG NO. REV 0

LEGEND

- DRAINAGE AREA DIVIDES
- DRAINAGE FLOW ARROWS
- DRAINAGE AREA NUMBER
- DRAINAGE AREA IN ACRES
- 100 YEAR STORM RUNOFF IN c.f.s.
- $Q_{100} = CIA$ WHERE $C=0.90$
- $I_{100} = 8.74$ (T/C=10 MIN.)

SWALE CAPACITY

SLOPE = 0.01 FT/FT
 DEPTH = 0.13 FT
 DISCHARGE = 2.81 CFS
 VELOCITY = 1.80 FPS

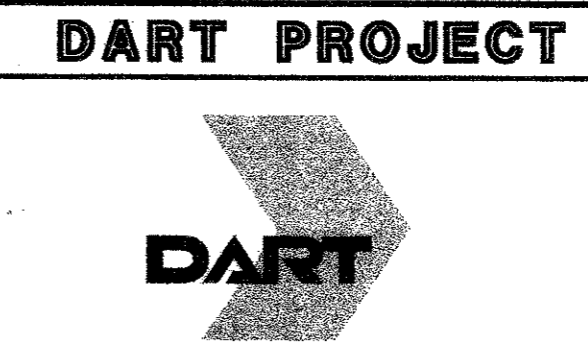


REV	DATE	DESCRIPTION	BY	ENG	CHK	APP	REV	DATE	DESCRIPTION	BY	ENG	CHK	APP

TURNER COLLIE & BRADEN INC.

LINDA TYCHER & ASSOCIATES

ARS ENGINEERS INC.



SCALE 1"=20'

DRAWN J. RATCLIFF

DESIGNED J. RATCLIFF

CHECKED C. BENNETT

IN CHARGE G. SHIPPY

DATE APRIL 2002

CONTRACT SHEET NO. 5 OF 13

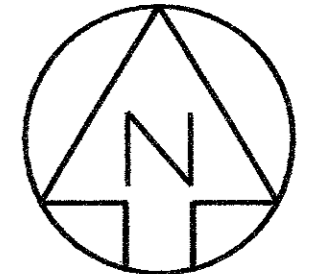
ADDISON TRANSIT CENTER DRAINAGE + GRADING PLAN

CONTRACT C-96000124-28

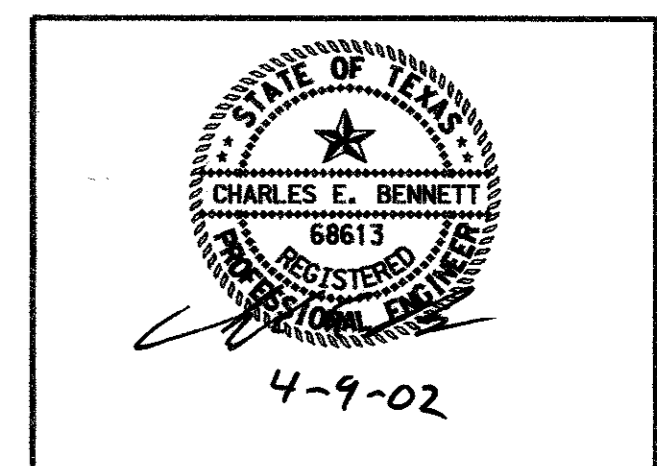
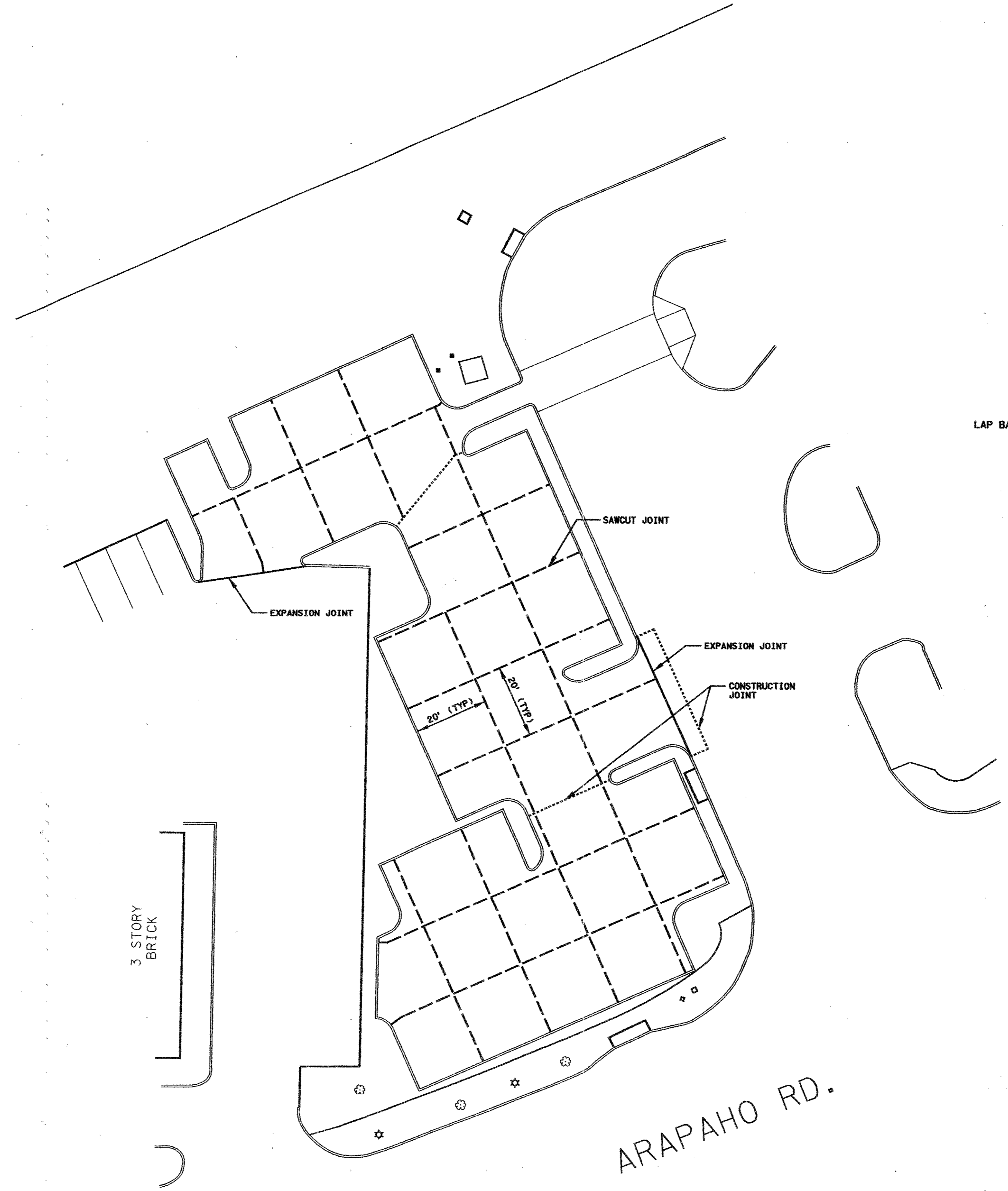
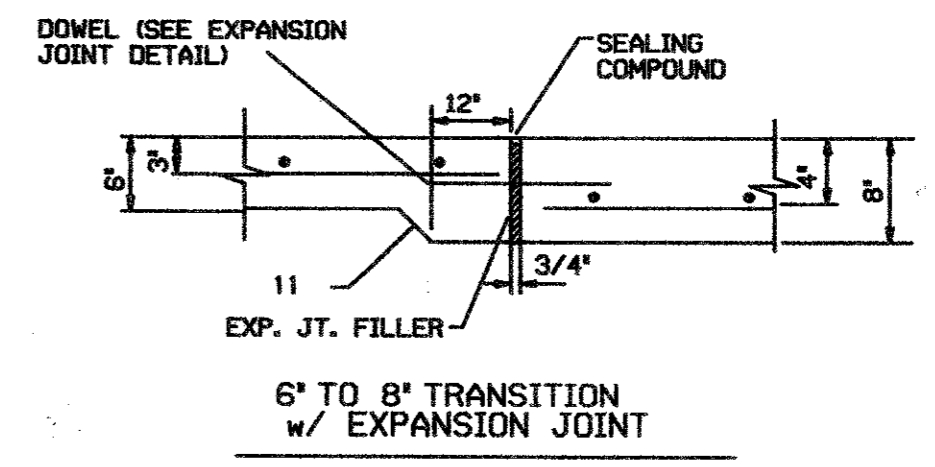
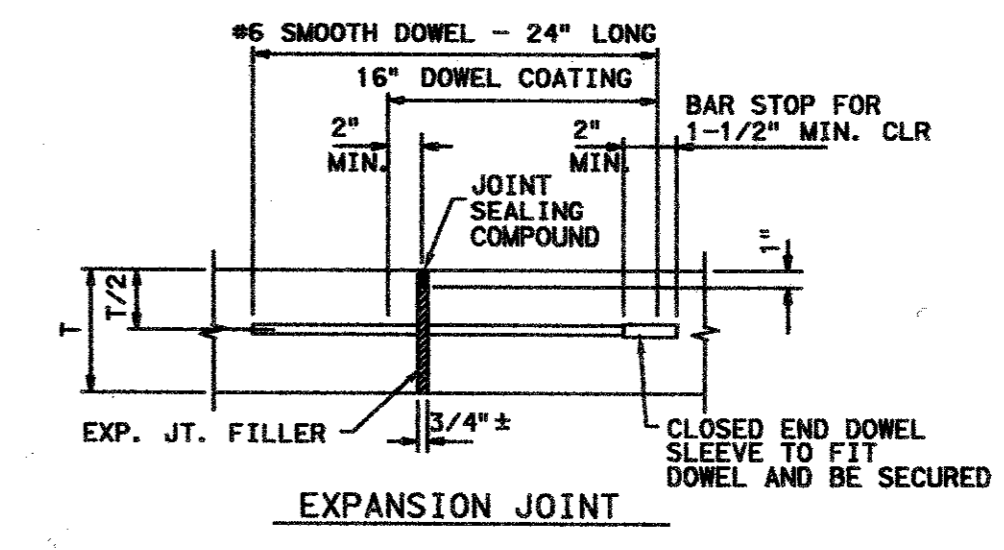
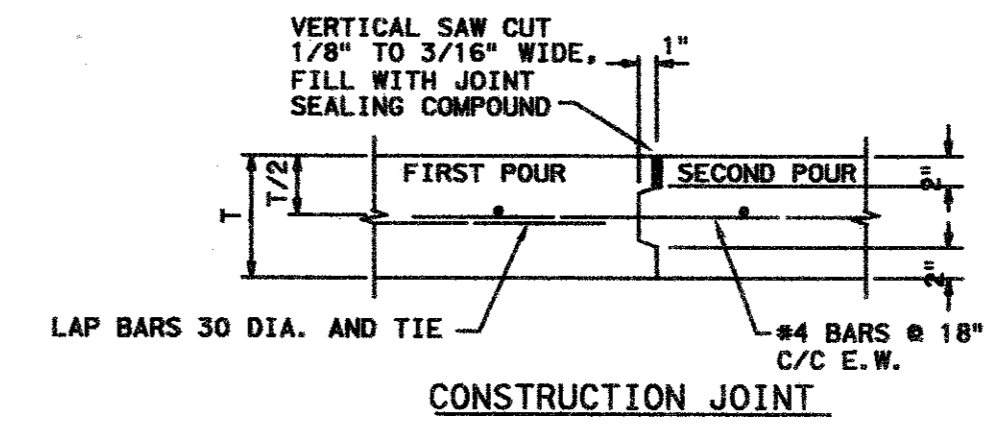
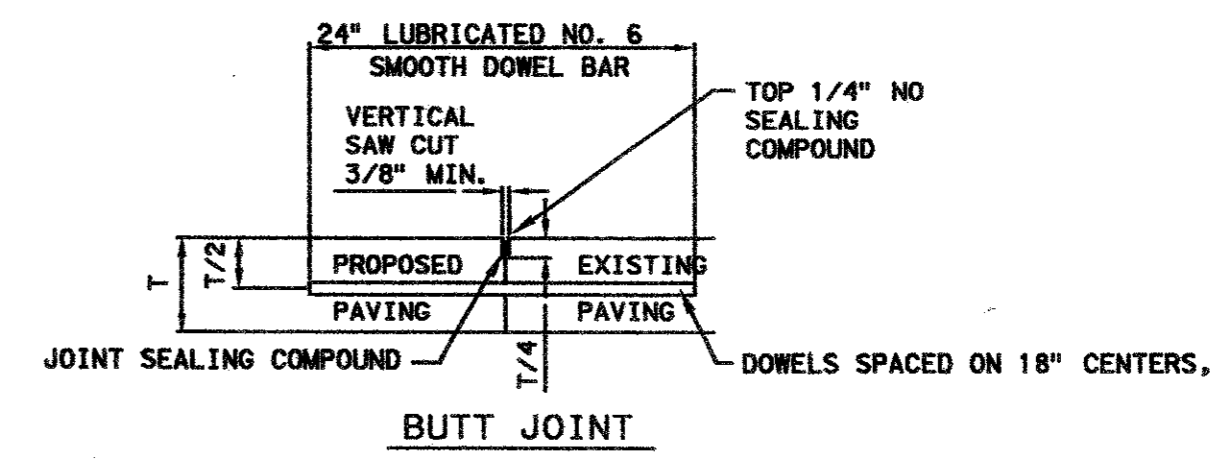
DWG NO.

REV 0

1 2 3 4 5 6 7 8



SCALE IN FEET
0 20 40



CONTRACT SHEET NO. 6 OF 13

**ADDISON
TRANSIT CENTER
PAVEMENT
JOINT LAYOUT**

DART PROJECT



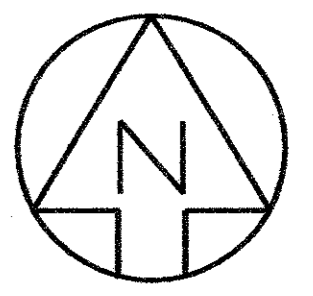
SCALE 1"=20'
DRAWN J. RATCLIFF
DESIGNED J. RATCLIFF
CHECKED G. BENNETT
IN CHARGE G. SHIPPY
DATE APRIL 2002

CONTRACT C-96000124-28 DWG NO. REV 0

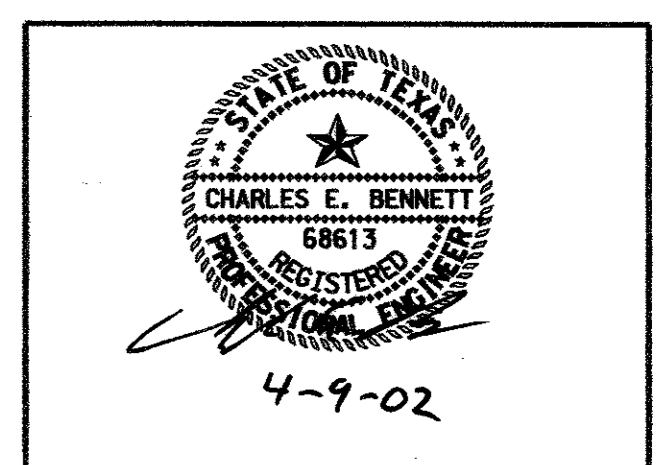
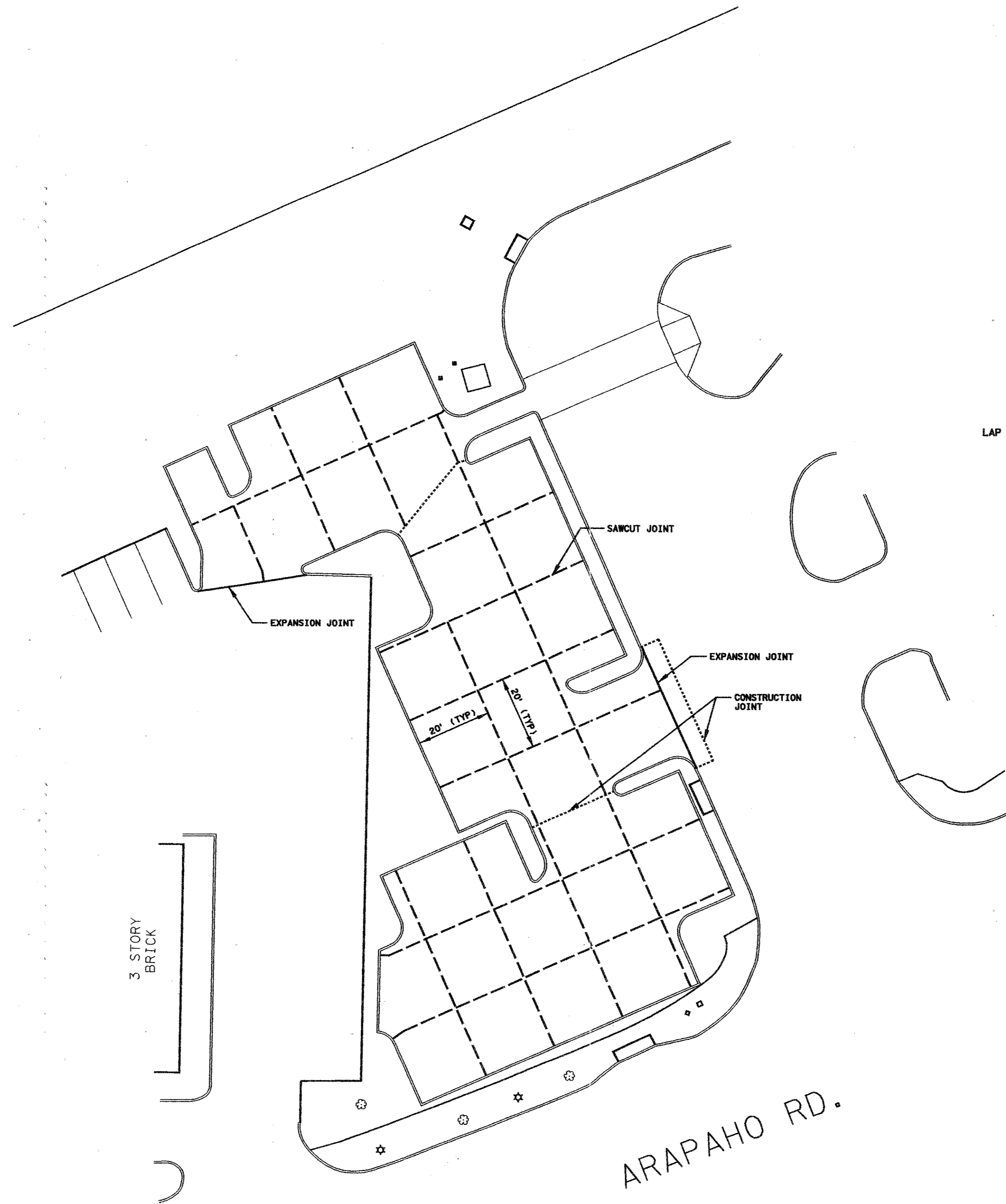
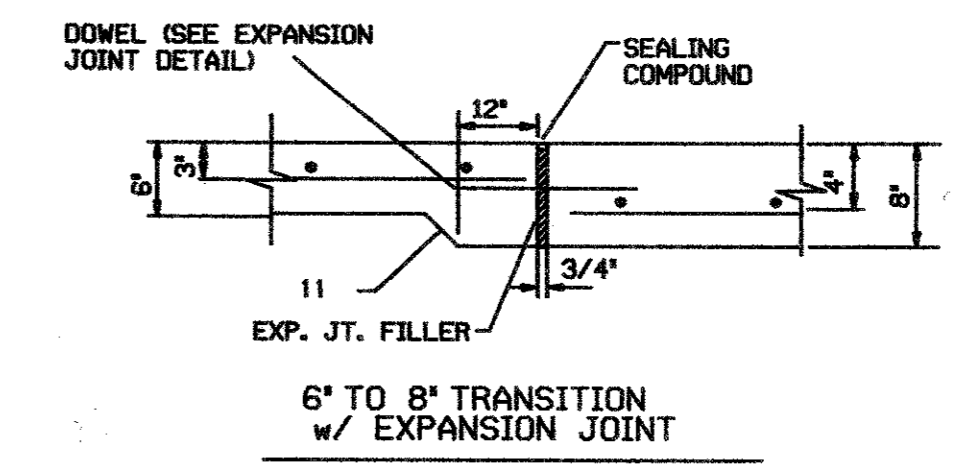
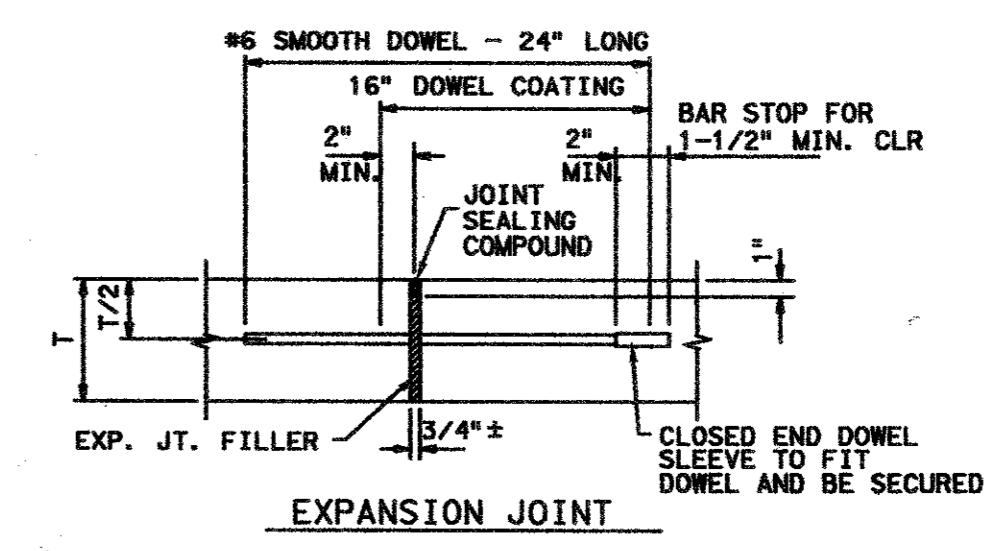
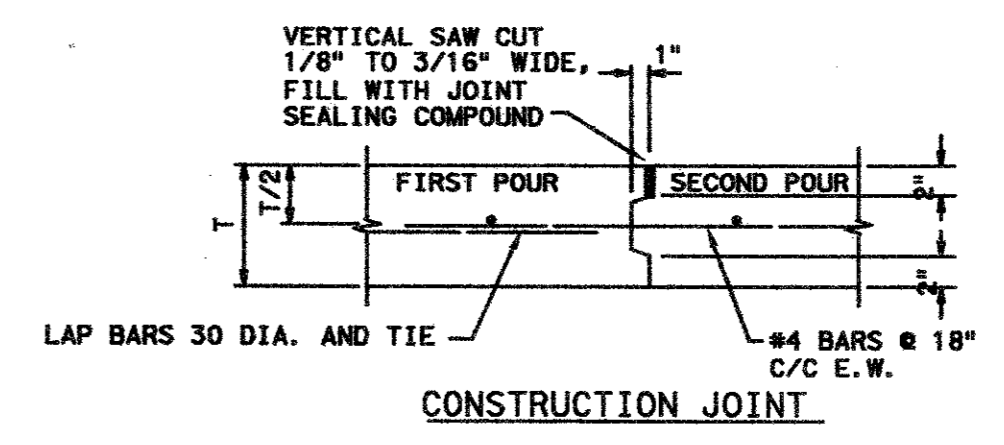
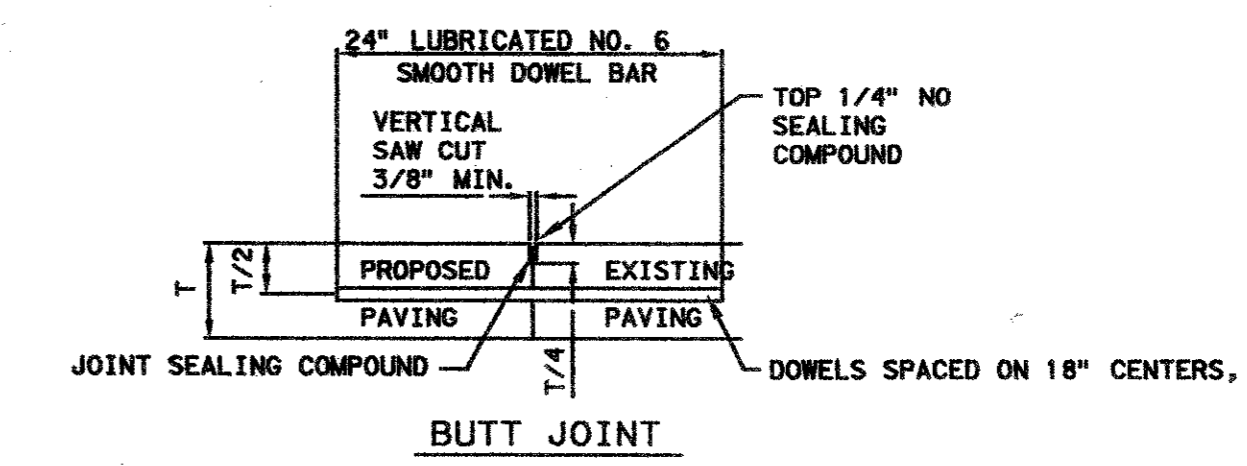
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TURNER COLLIE & BRADEN INC.
LINDA TYCHER & ASSOCIATES
ARS ENGINEERS INC.

1 2 3 4 5 6 7 8



SCALE IN FEET
0 20 40



CONTRACT SHEET NO. 6 OF 13

ADDISON
TRANSIT CENTER
PAVEMENT
JOINT LAYOUT

DART PROJECT



SCALE 1"=20'
DRAWN J. RATCLIFF
DESIGNED J. RATCLIFF
CHECKED C. BENNETT
IN CHARGE G. SHIPPY
DATE APRIL 2002

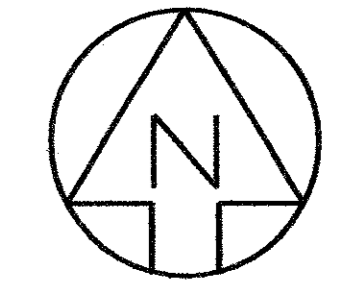
CONTRACT C-96000124-28 DWG NO. REV 0

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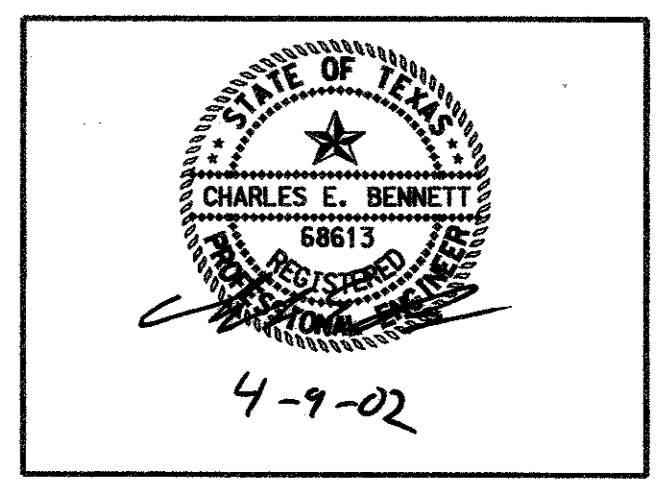
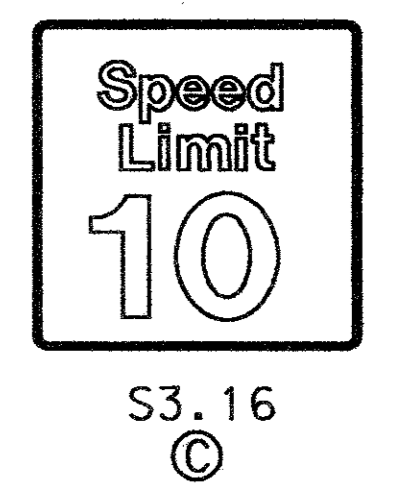
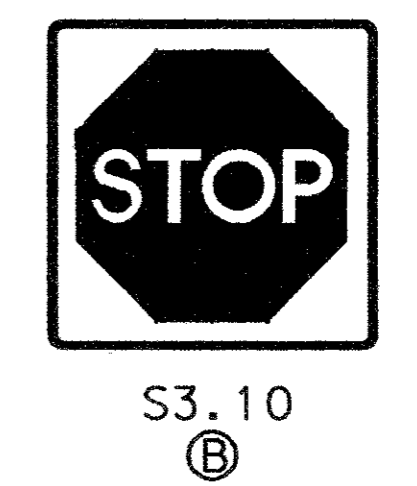
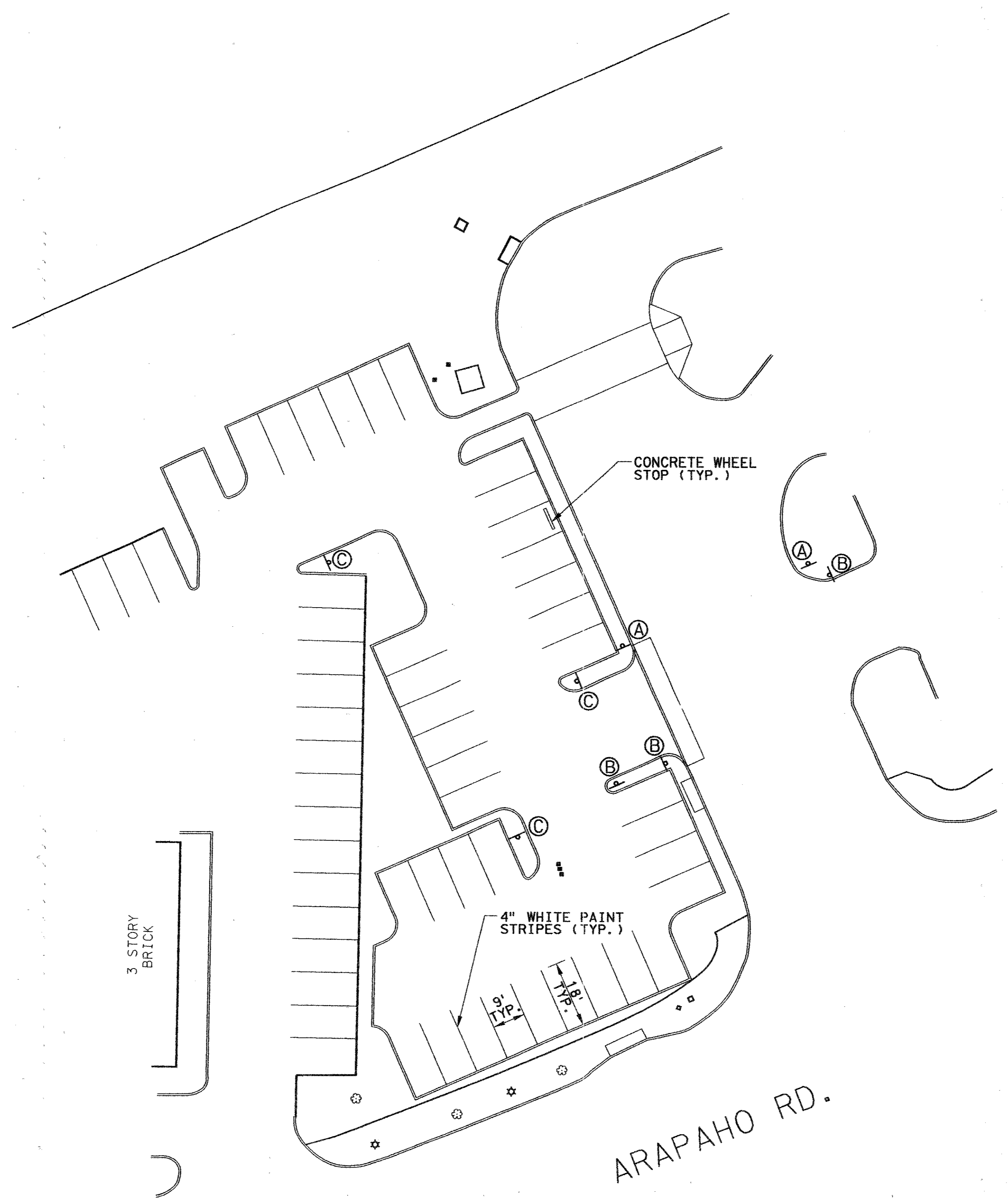
TURNER COLLIE & BRADEN INC.
LINDA TYCHER & ASSOCIATES
ARS ENGINEERS INC.

1 2 3 4 5 6 7 8

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SCALE IN FEET
0 20 40



CONTRACT SHEET NO. 7 OF 13

**ADDISON
TRANSIT CENTER
PAVEMENT MARKING AND
SIGNING PLAN**

CONTRACT C-96000124-28 DWG NO. REV 0

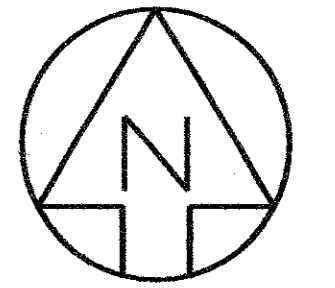
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TURNER COLLIE & BRADEN INC.
LINDA TYCHER & ASSOCIATES
ARS ENGINEERS INC.

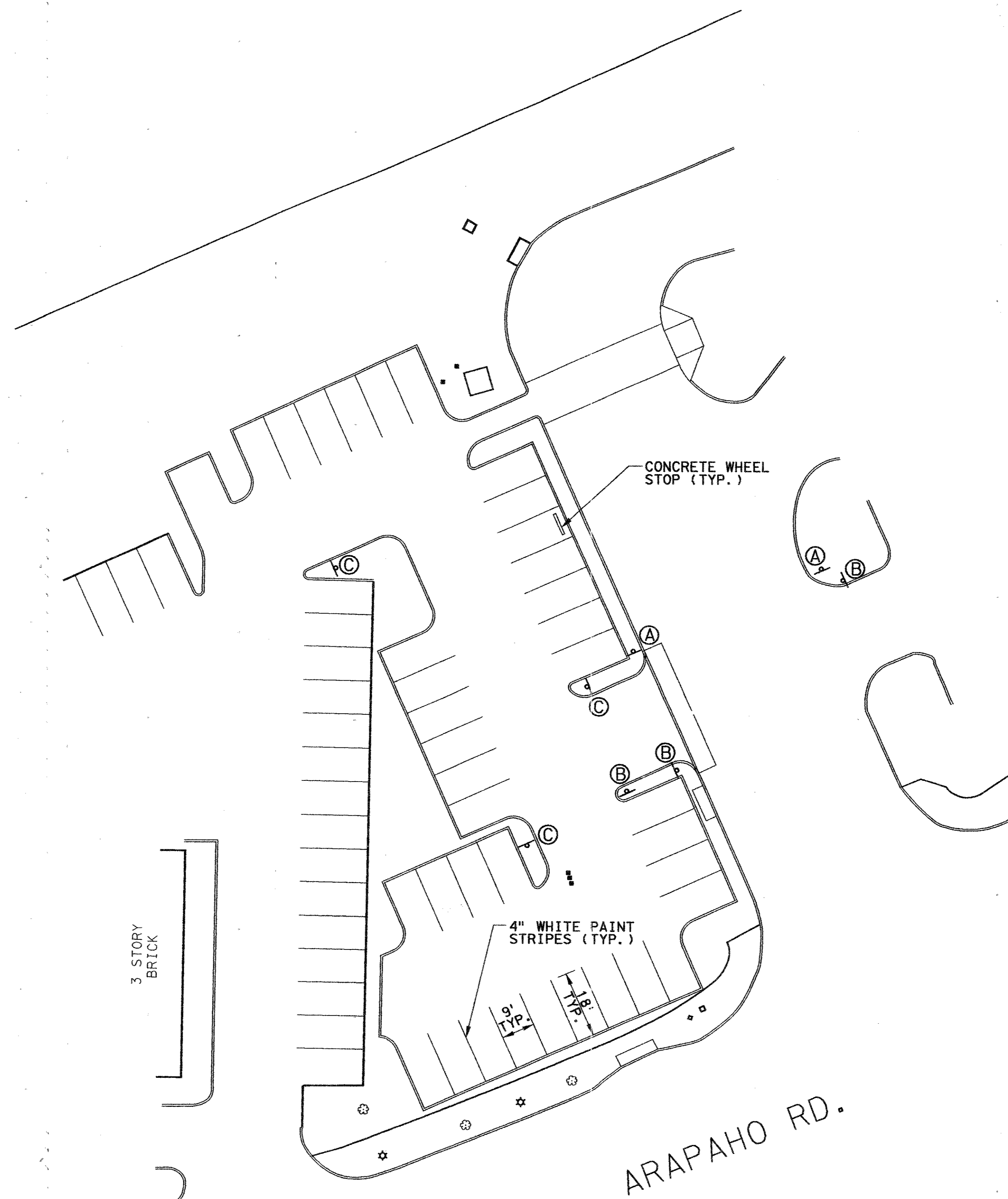
DART PROJECT

SCALE 1"=20'
DRAWN J. RATCLIFF
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CHECKED C. BENNETT
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DATE APRIL 2002

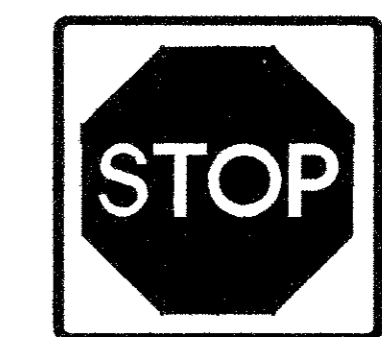
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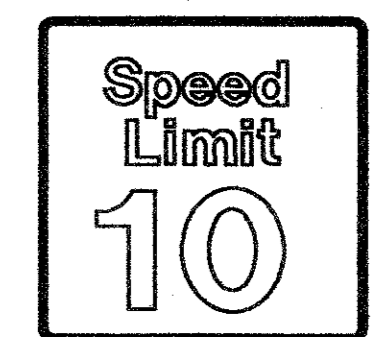
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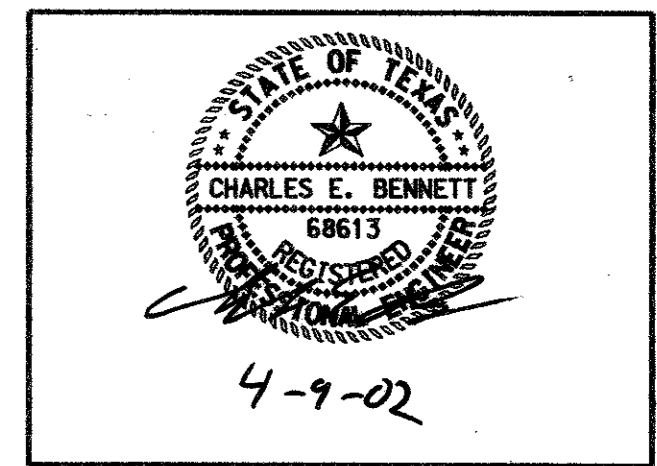
S3.21
A



S3.10
B



S3.16
C



CONTRACT SHEET NO. 7 OF 13

**ADDISON
TRANSIT CENTER
PAVEMENT MARKING AND
SIGNING PLAN**

CONTRACT C-96000124-28 DWG NO. REV 0

DART PROJECT



SCALE	1"=20'
DRAWN	J. RATCLIFF
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CHECKED	C. BENNETT
IN CHARGE	G. SHIPPY
DATE	APRIL 2002

TURNER COLLIE & BRADEN INC.
LINDA TYCHER & ASSOCIATES
ARS ENGINEERS INC.

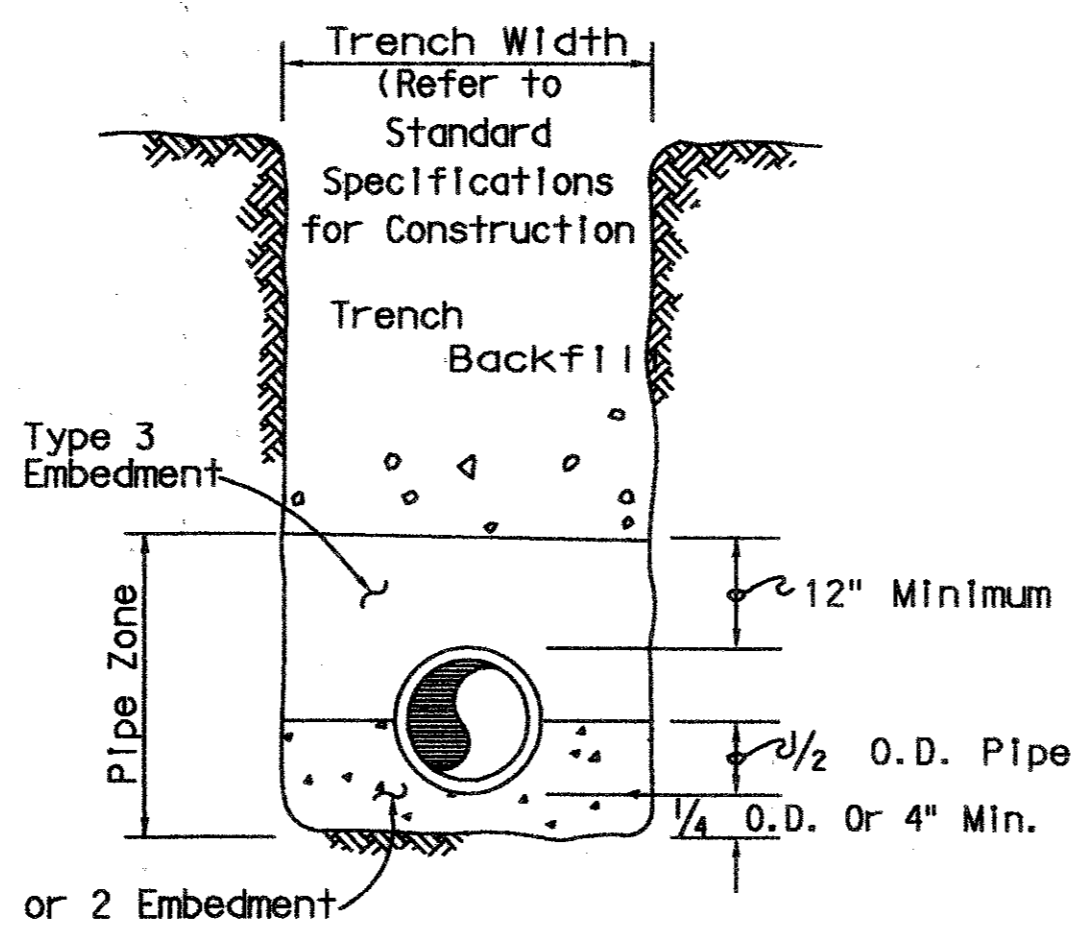
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CRUSHED LIMESTONE, TYPE 1, EMBEDMENT: Crushed limestone shall consist of durable particles of crushed stone ranging in size from 3/4" to 1 1/4" with percent of wear not exceeding 35%. The gradation based on ASTM D448 size 67 use as follows:

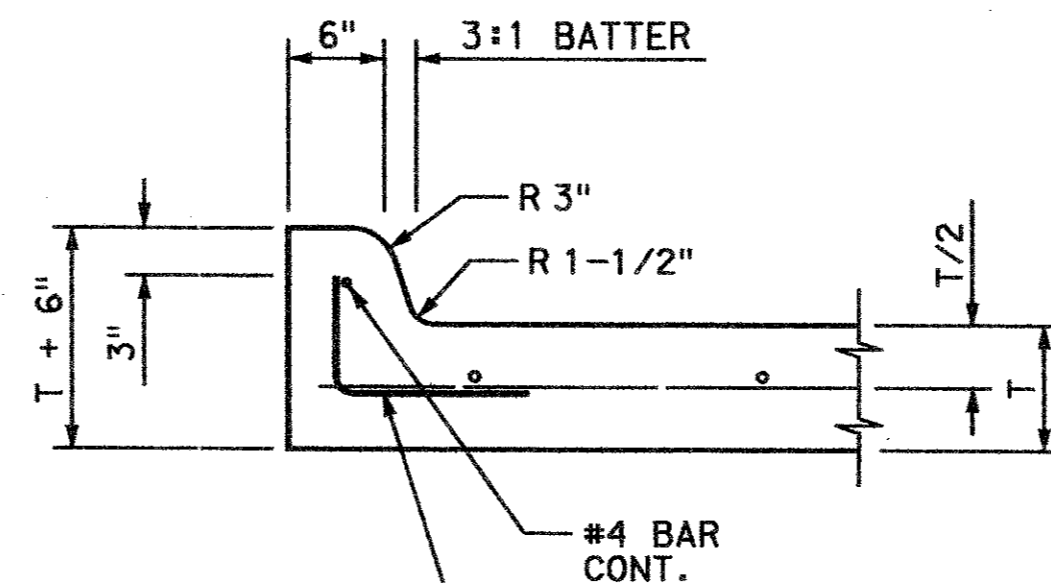
Sieve Size	% By Weight Passing
1"	100
3/4"	90 - 100
3/8"	20 - 55
No. 4	0 - 10
No. 8	0 - 5

GRAVEL, TYPE 2, EMBEDMENT: Gravel for embedment and/or encasement shall be washed gravel ranging in size from 3/4" diameter to 1 1/4" inch diameter meeting the requirements of ASTM designation C33, Gradation 67. The material shall be free from clay and organic material.

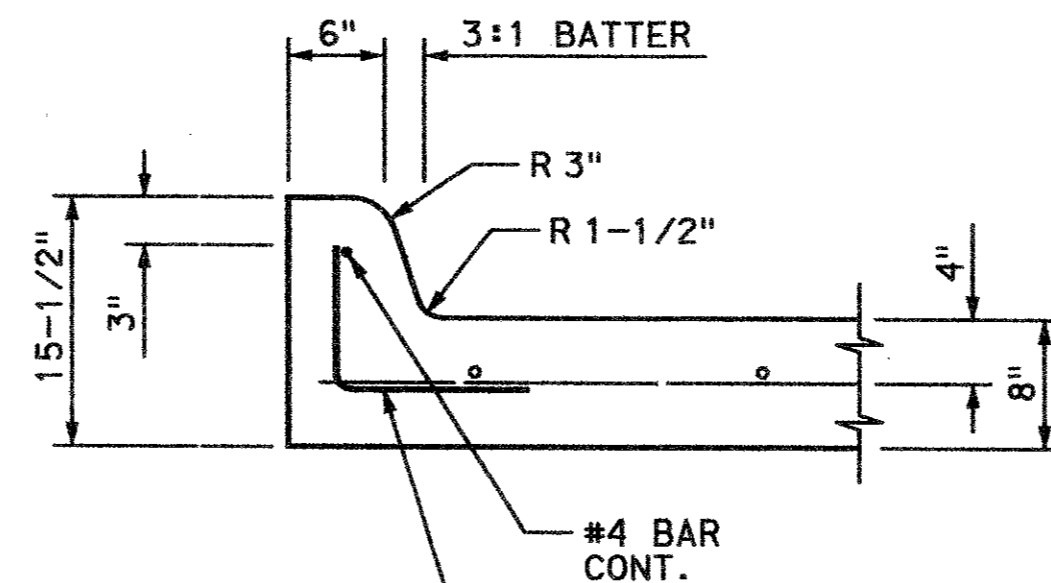
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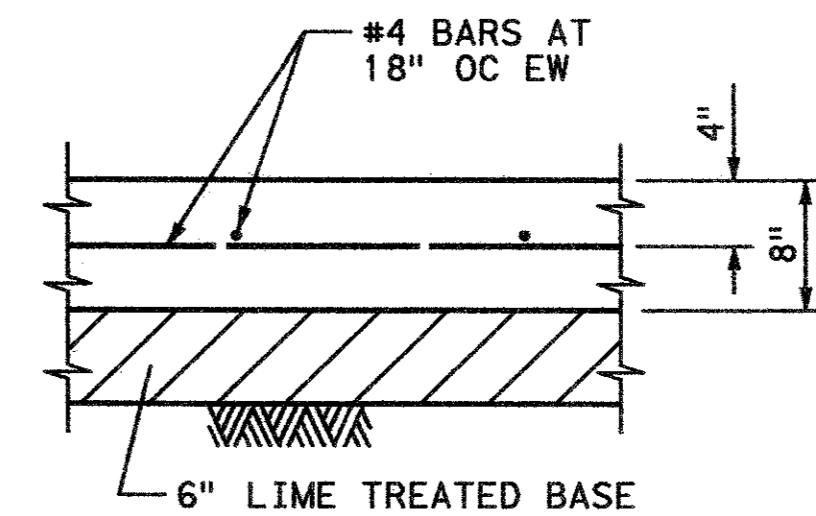
PIPE EMBEDMENT DETAIL
Not To Scale



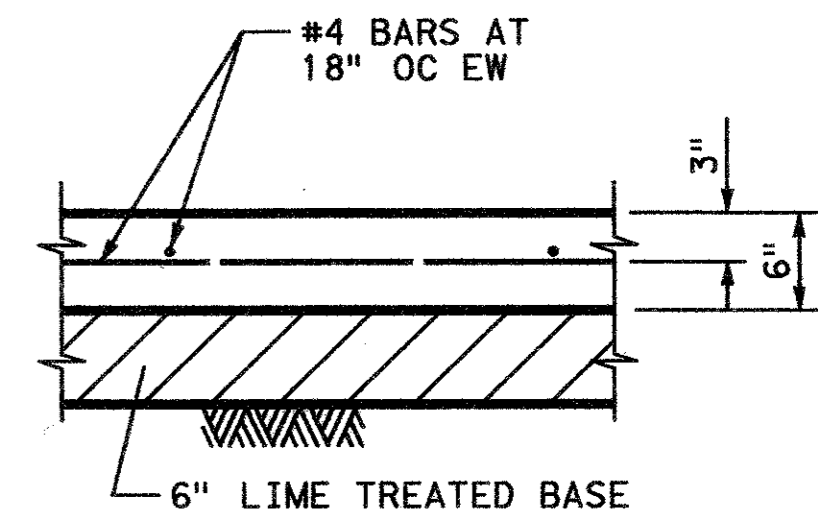
6" CURB DETAIL
SCALE: N.T.S.



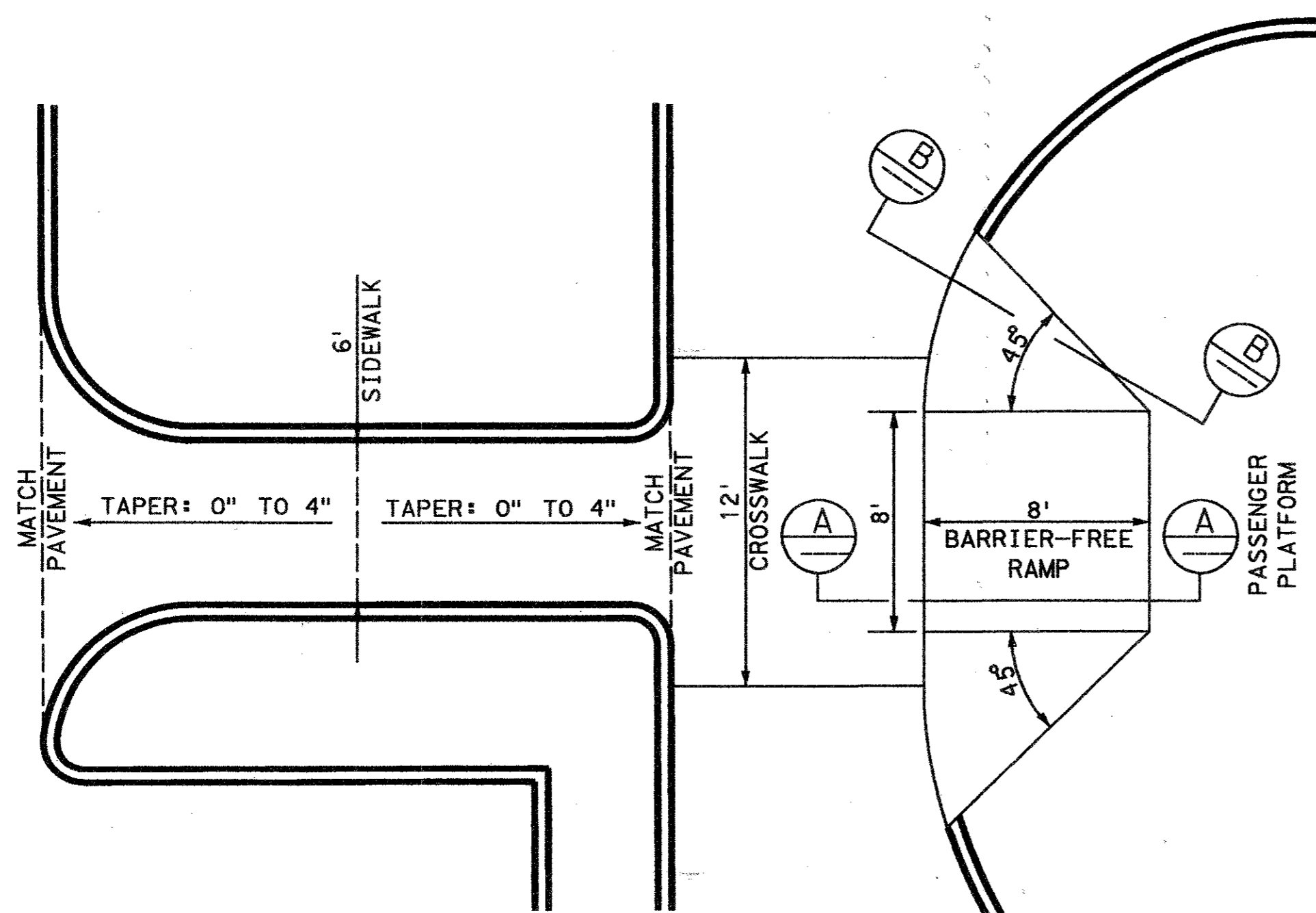
7-1/2" CURB DETAIL
SCALE: N.T.S.



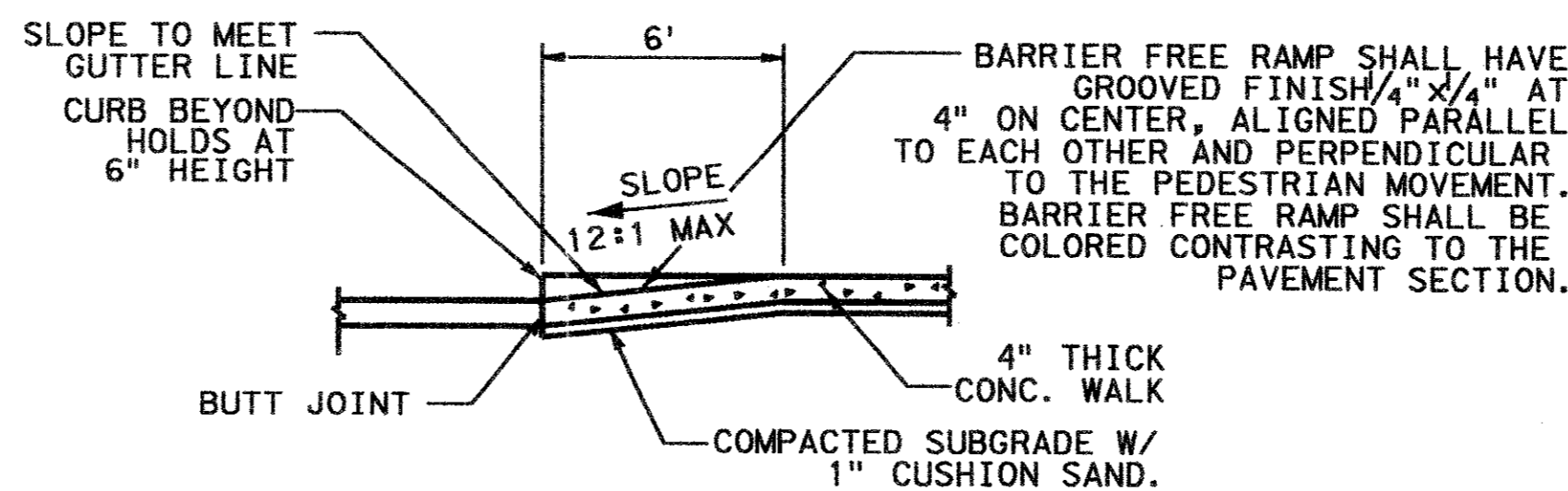
BUSWAY PAVEMENT DETAIL
SCALE: N.T.S.



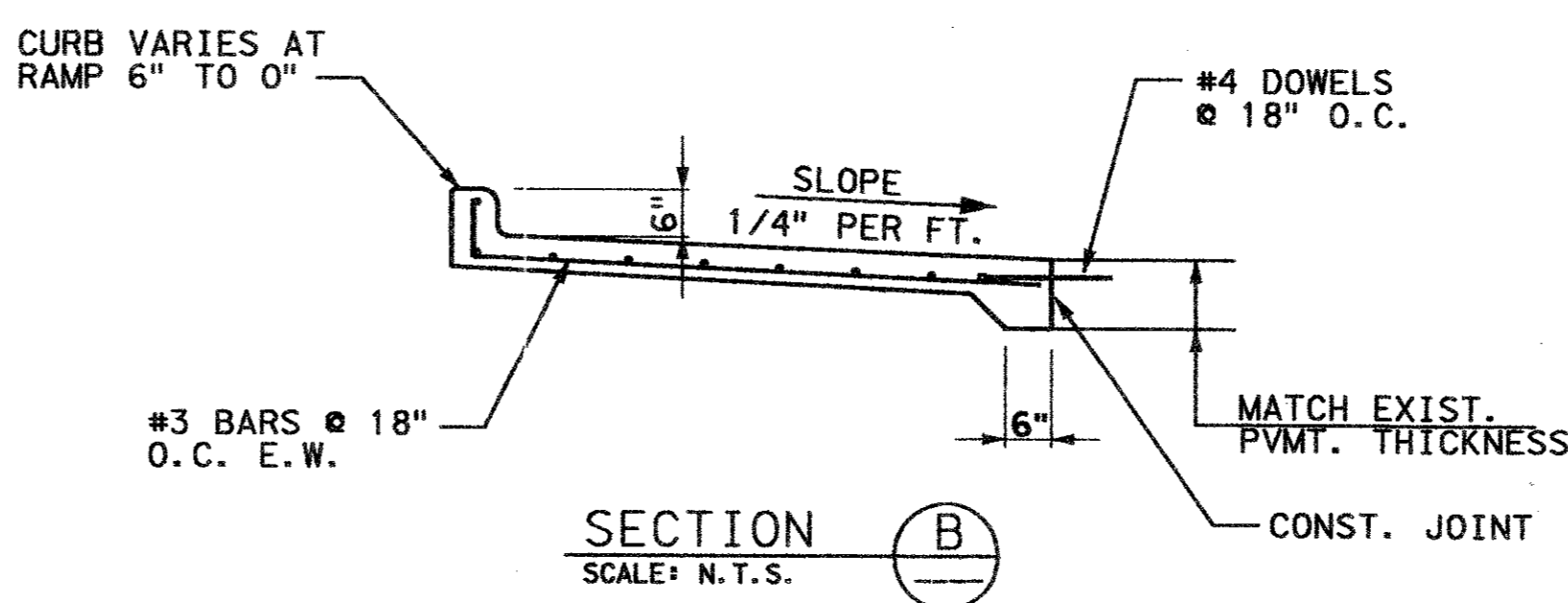
NON-BUSWAY PAVEMENT DETAIL
SCALE: N.T.S.



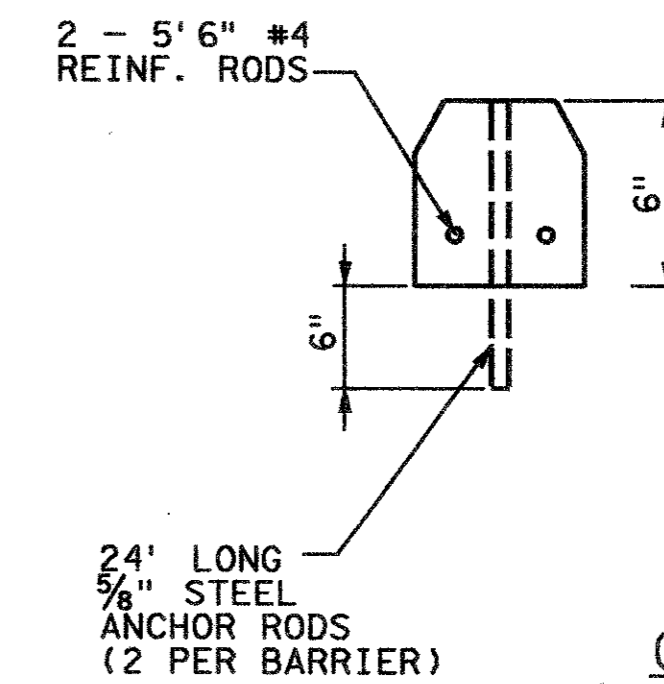
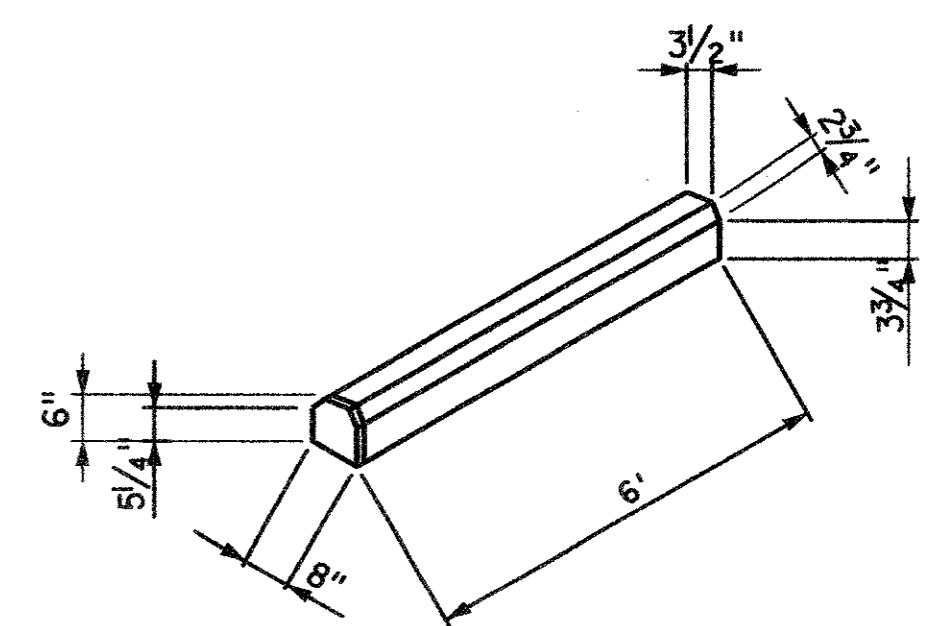
BARRIER FREE RAMP AND CROSSWALK DETAIL
SCALE: N.T.S.



BARRIER FREE RAMP SECTION
SCALE: N.T.S.



CURB VARIES AT RAMP
SCALE: N.T.S.



CONCRETE WHEEL STOP
SCALE: N.T.S.

T:\TRANS\DARTHOV\T028-ADDISON METRO STATION SHEETS\DETAILS.DGN 04/09/02

REV	DATE	DESCRIPTION	BY	ENG	CHK	APP	REV	DATE	DESCRIPTION	BY	ENG	CHK	APP

TURNER COLLIE & BRADEN INC.
LINDA TYCHER & ASSOCIATES
ARS ENGINEERS INC.

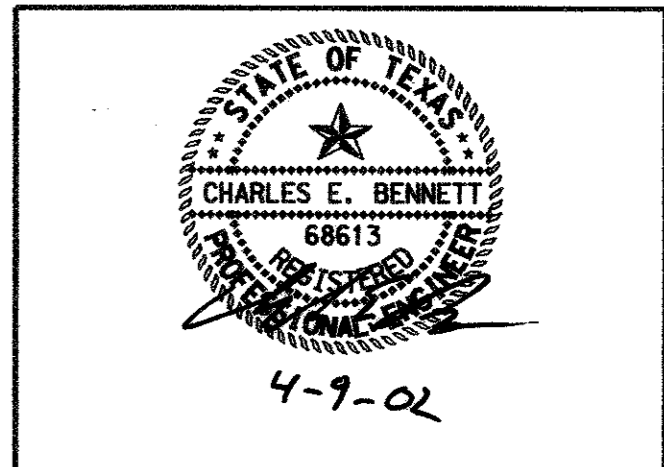
DART PROJECT

SCALE	NOT TO SCALE
DRAWN	J. RATCLIFF
DESIGNED	J. RATCLIFF
CHECKED	C. BENNETT
IN CHARGE	G. SHIPPY
DATE	APRIL 2002

CONTRACT SHEET NO. 8 OF 13

ADDISON TRANSIT CENTER
PAVING + WALK DETAILS

CONTRACT C-96000124-28 DWG NO. REV 0

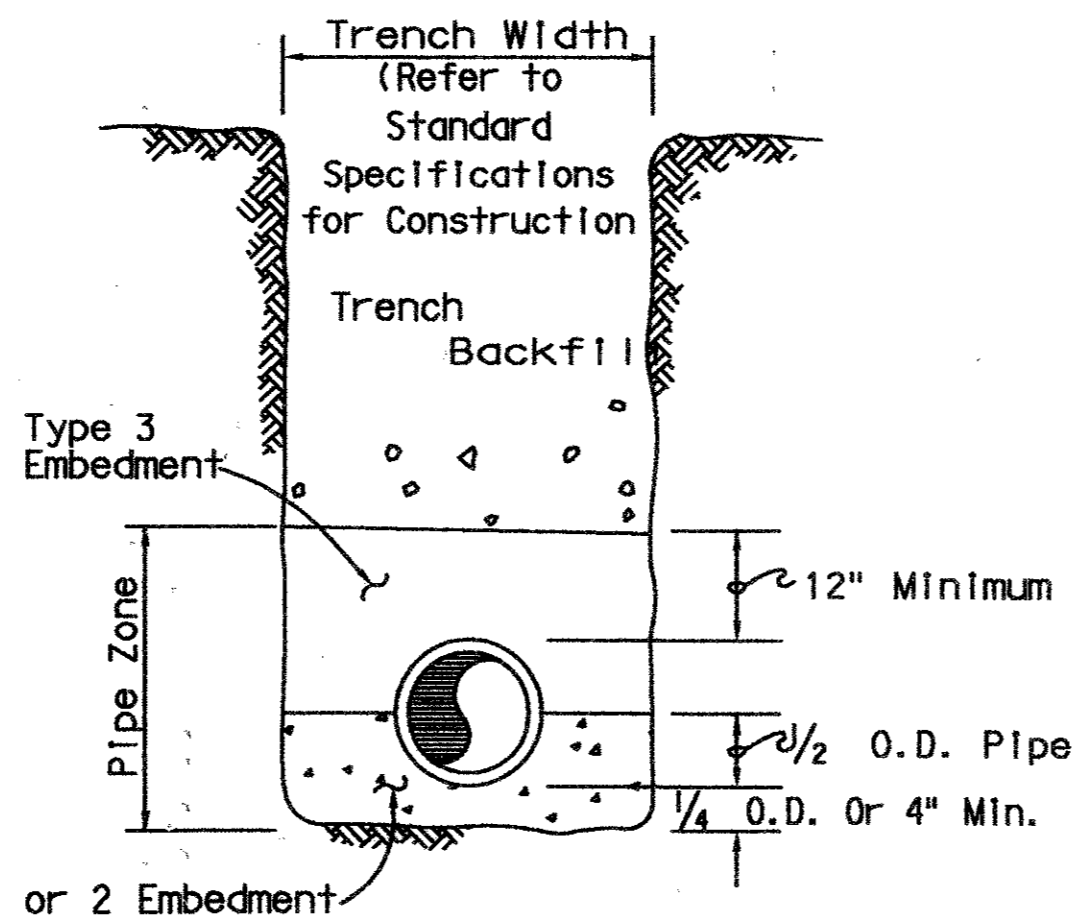


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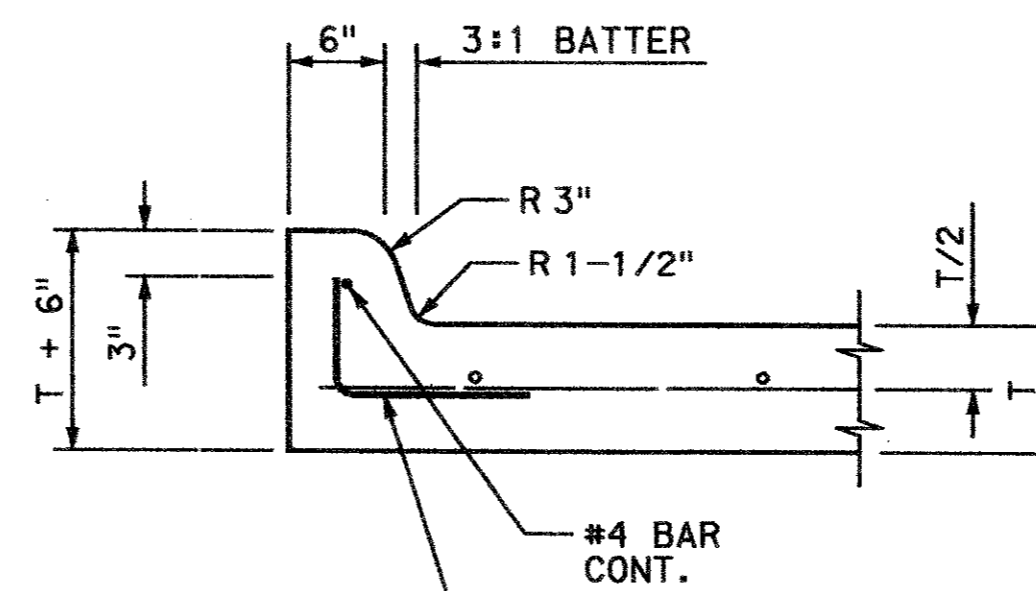
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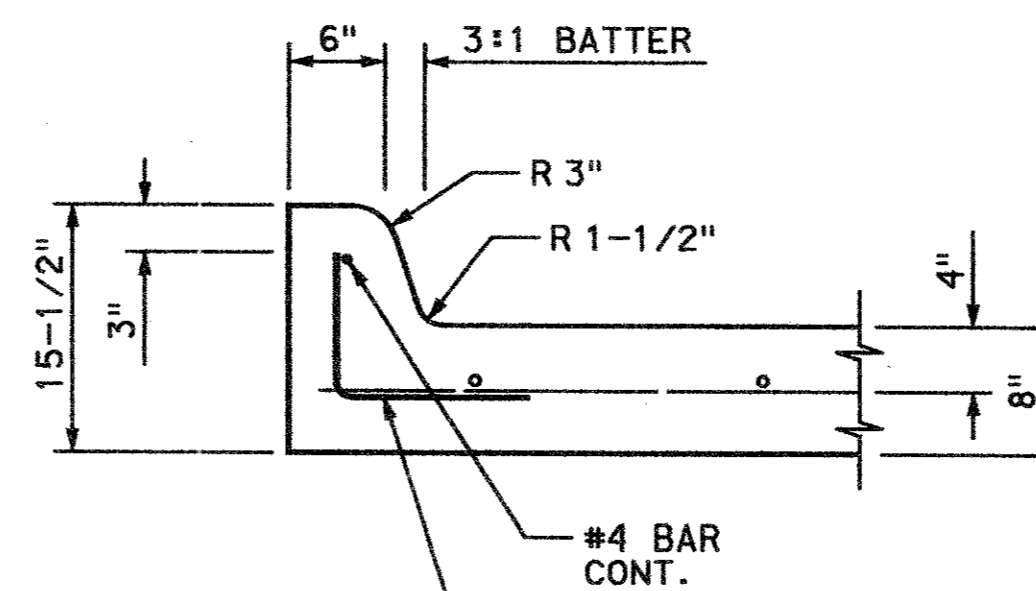
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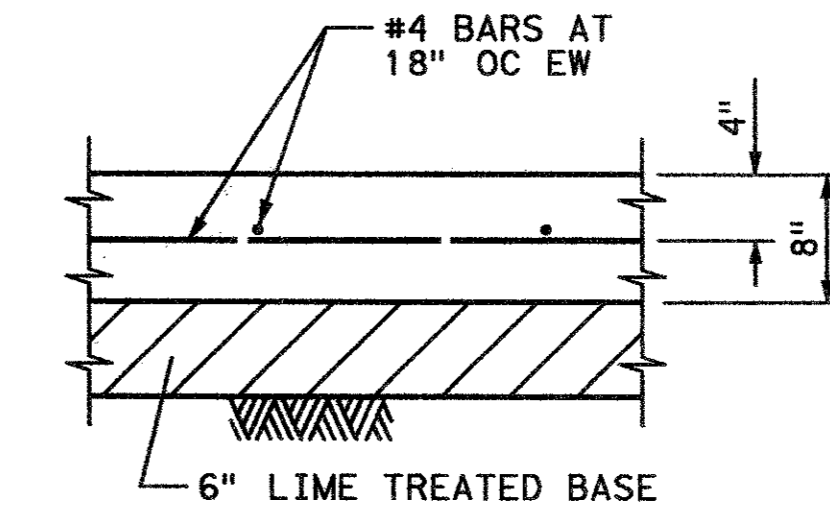
PIPE EMBEDMENT DETAIL
Not To Scale



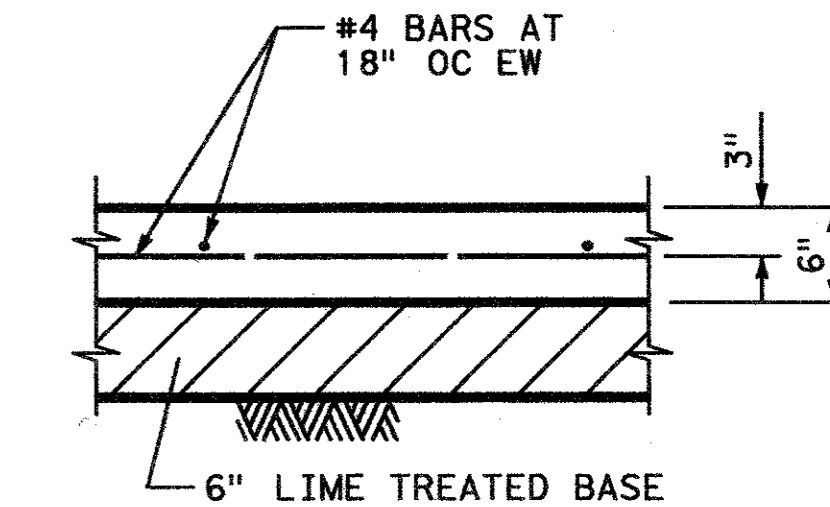
6" CURB
DETAIL
SCALE: N.T.S.



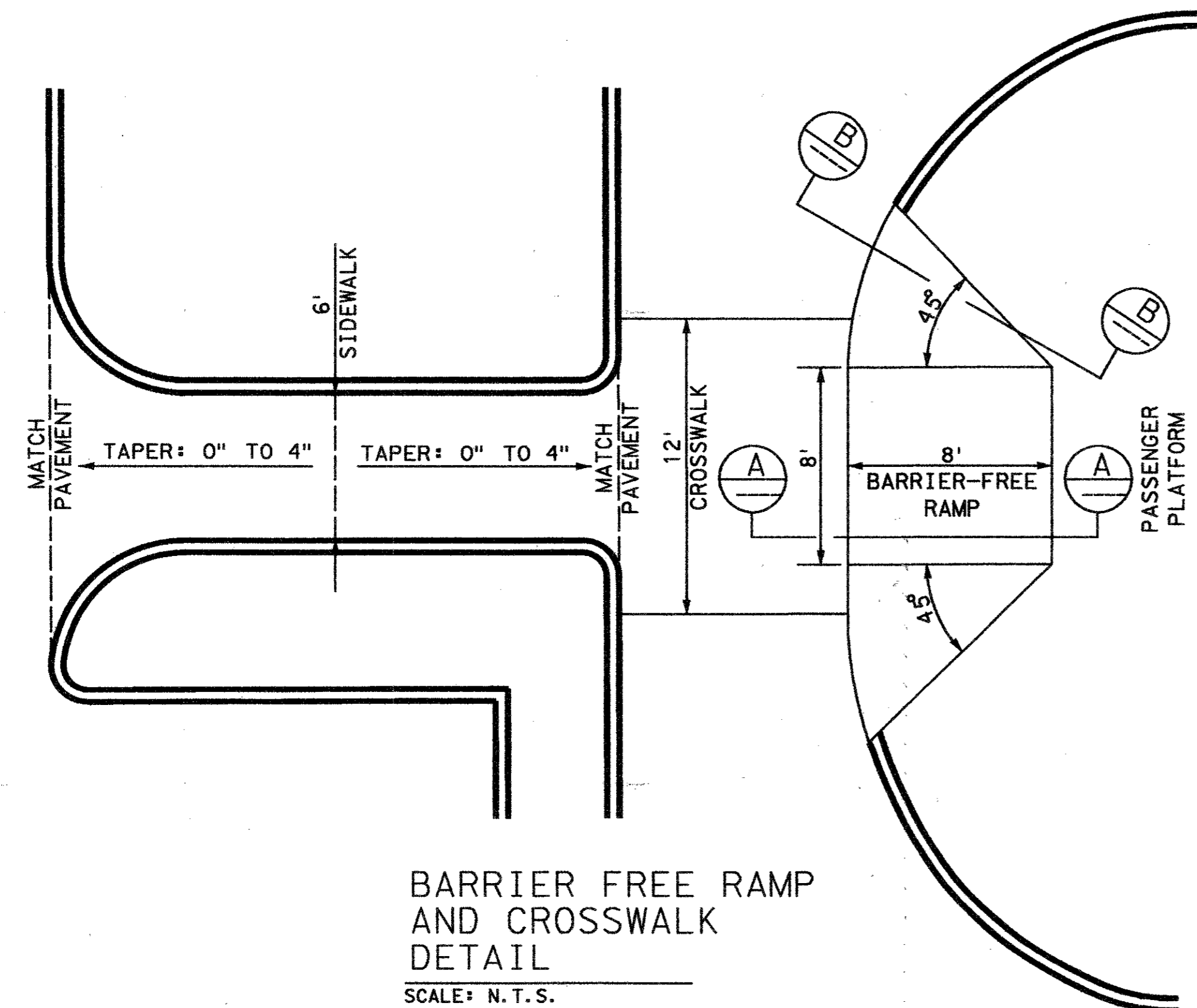
7-1/2" CURB
DETAIL
SCALE: N.T.S.



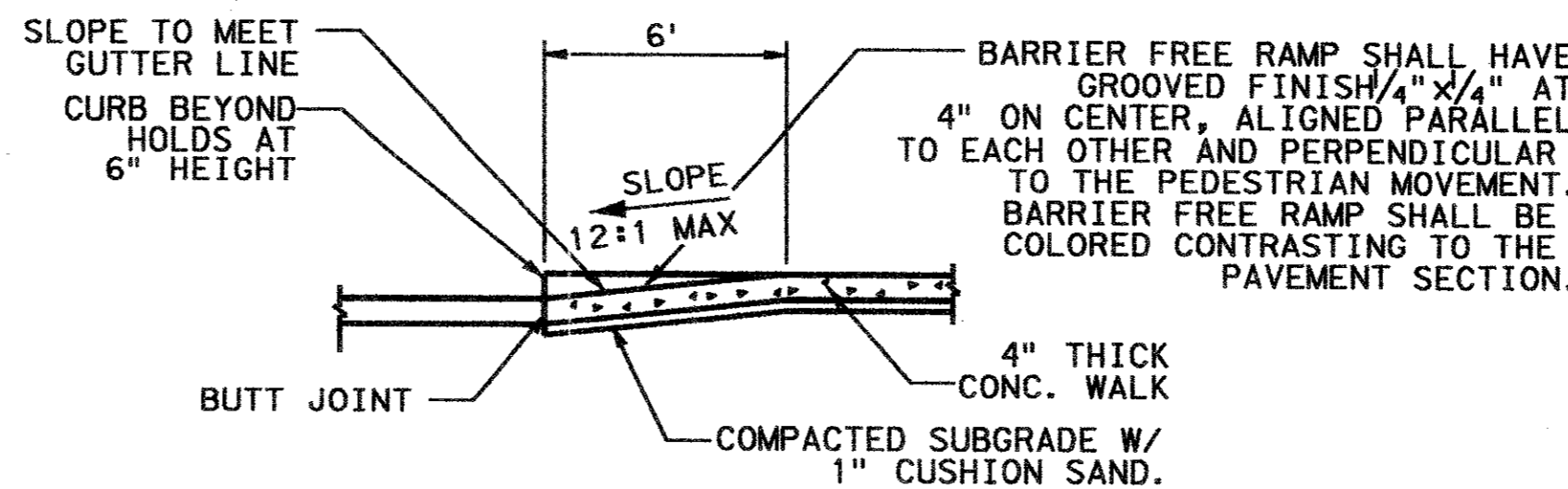
BUSWAY
PAVEMENT
DETAIL
SCALE: N.T.S.



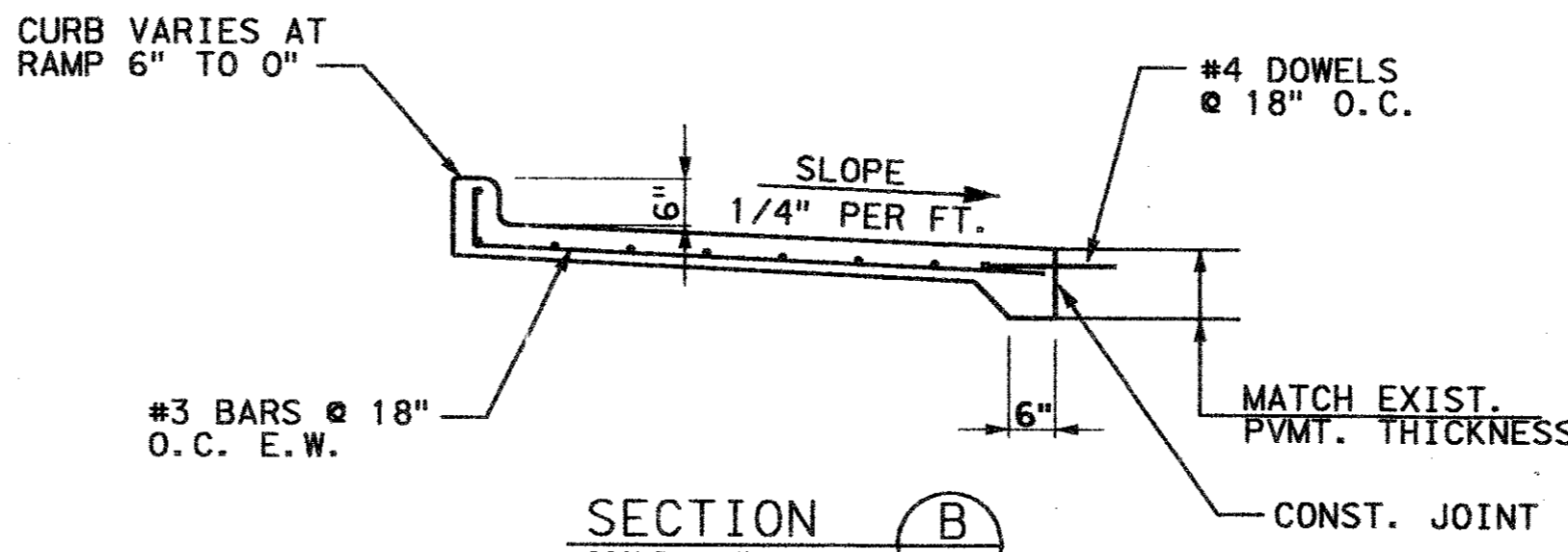
NON-BUSWAY
PAVEMENT
DETAIL
SCALE: N.T.S.



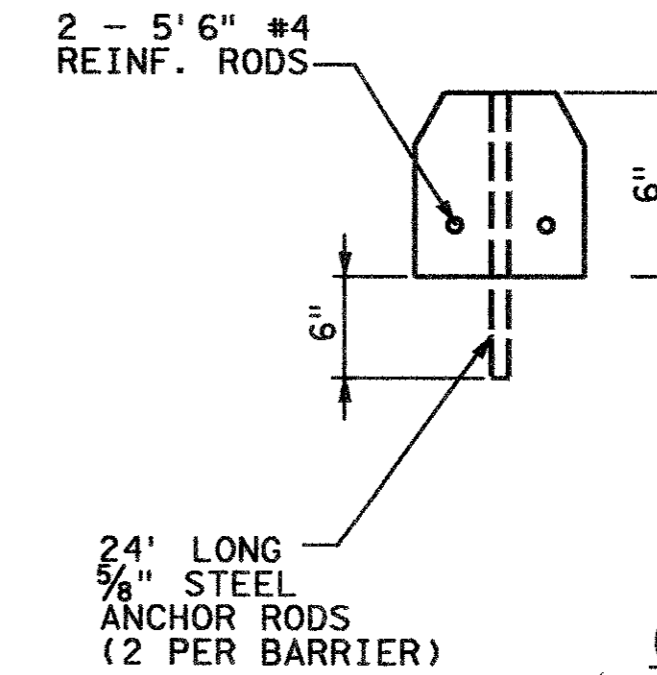
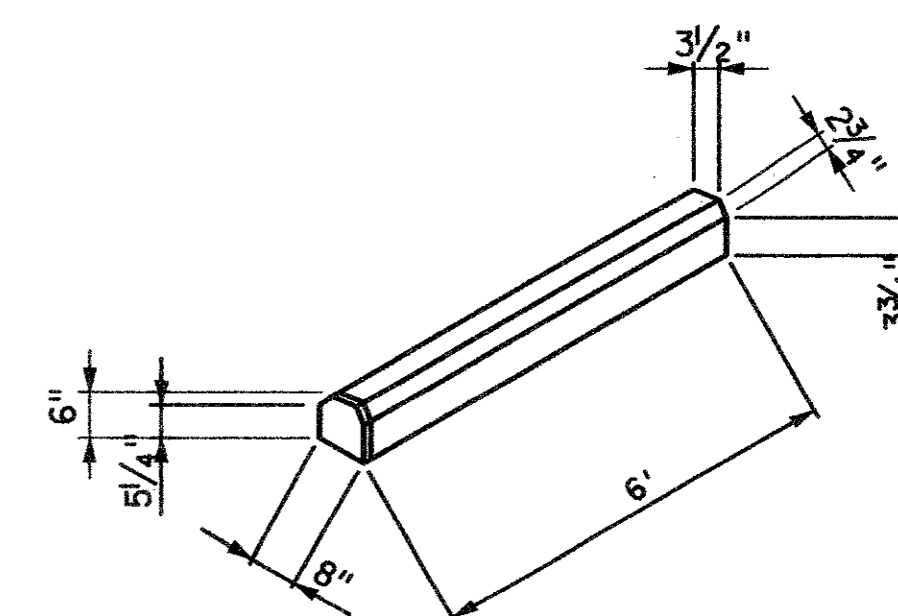
BARRIER FREE RAMP
AND CROSSWALK
DETAIL
SCALE: N.T.S.



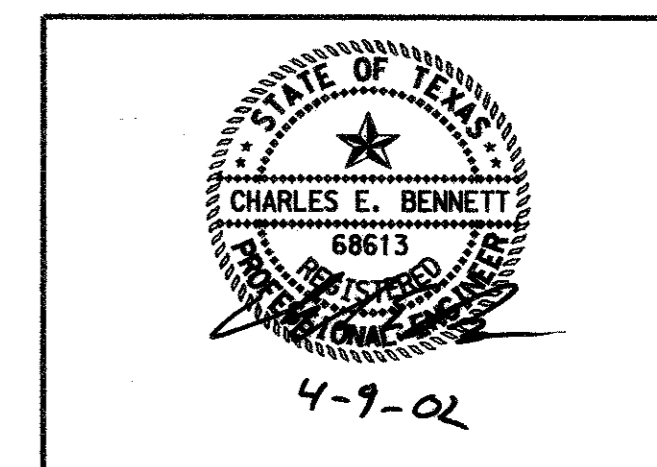
BARRIER FREE RAMP
SECTION A
SCALE: N.T.S.



BARRIER FREE RAMP
SECTION B
SCALE: N.T.S.



CONCRETE WHEEL STOP
SCALE: N.T.S.



CONTRACT SHEET NO. 8 OF 13

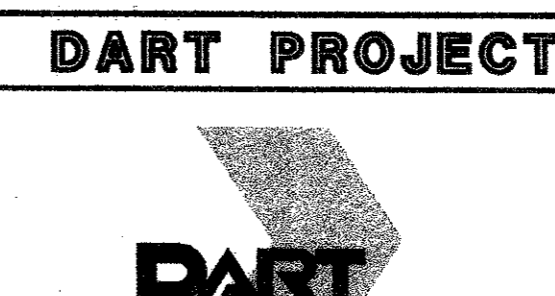
ADDISON
TRANSIT CENTER
PAVING + WALK DETAILS

CONTRACT C-96000124-28 DWG NO. REV 0

T: \TRANS\ARTHOV\T028-ADDI SON\MI CROSTATI ON\SHEETS\DETAILS.DGN 04/09/02

REV	DATE	DESCRIPTION	BY	ENG	CHK	APP	REV	DATE	DESCRIPTION	BY	ENG	CHK	APP

TURNER COLLIE & BRADEN INC.
LINDA TYCHER & ASSOCIATES
ARS ENGINEERS INC.



SCALE	NOT TO SCALE
DRAWN	J. RATCLIFF
DESIGNED	J. RATCLIFF
CHECKED	C. BENNETT
IN CHARGE	G. SHIPPY
DATE	APRIL 2002

SITE DESCRIPTION

PROJECT LIMITS:

AN APPROXIMATE 4 SIDED PARCEL OF LAND SITUATED BETWEEN THE FOLLOWING: EXISTING DART TRANSIT CENTER, ARAPAHO ROAD, ADDISON ROAD AND A FUTURE DART RAIL LINE.

PROJECT DESCRIPTION:

CONSTRUCTION OF A 13,000 S.F. PAVED PARKING LOT WITH PARK LIKE LANDSCAPING, GRADING, DRAINAGE, SUBGRADE PREPARATION, CURBING, CONCRETE PAVING, SIGNING, AND PAVEMENT MARKINGS. UPGRADE EXISTING UTILITIES AND STORM DRAINAGE IMPROVEMENTS.

MAJOR SOIL DISTURBING ACTIVITIES:

CLEARING AND GRUBBING, GRADING, EXCAVATION, COMPACTION, DRIVEWAYS AND PARKING LOTS CONCRETE FORMWORK, STORM SEWER CONSTRUCTION, EROSION AND SEDIMENT CONTROLS, AND TOPSOIL WORK FOR FINAL PLANTING AND SEEDING.

TOTAL PROJECT AREA: 0.514 ACRES

TOTAL AREA TO BE DISTURBED: 0.396 ACRES

WEIGHTED RUNOFF COEFFICIENT (AFTER CONSTRUCTION): 0.68

EXISTING CONDITION OF SOIL & VEGETATIVE COVER AND % OF EXISTING VEGETATIVE COVER:

THE SITE IS GENERALLY COVERED WITH SHORT GRASS. THE SITE IS LOCATED IN AN AREA UNDERLAIN BY DEPOSITS OF THE AUSTIN CHALK LIMESTONE FORMATION CONSISTS OF GRAY CHALKY LIMESTONE WITH SOME SHALE AND PARTINGS.

NAME OF RECEIVING WATERS:

THE PROJECT DRAINS INTO THE WHITE ROCK CREEK VIA UNDERGROUND STORM SEWERS AND OPEN CHANNELS.

EROSION AND SEDIMENT CONTROLS

SOIL STABILIZATION PRACTICES:

- TEMPORARY SEEDING
- PERMANENT PLANTING, SODDING, OR SEEDING
- MULCHING
- SOIL RETENTION BLANKET
- BUFFER ZONE
- PRESERVATION OF NATURAL RESOURCES

OTHER:

DISTURBED AREAS ON WHICH CONSTRUCTION ACTIVITY HAS CEASED (TEMPORARILY OR PERMANENTLY) SHALL BE STABILIZED WITHIN 14 DAYS UNLESS ACTIVITIES ARE SCHEDULED TO RESUME WITHIN 21 DAYS.

() DENOTES NOTES UNDER STRUCTURAL PRACTICES; OTHER.

EROSION AND SEDIMENT CONTROLS

STRUCTURAL PRACTICES:

- SILT FENCES
- HAY BALES
- ROCK BERMS
- DIVERSION, INTERCEPTOR, OR PERIMETER DIKES
- DIVERSION, INTERCEPTOR, OR PERIMETER SWALES
- DIVERSION DIKE AND SWALE COMBINATIONS
- PIPE SLOPE DRAINS
- PAVED FLUMES
- ROCK BEDDING AT CONSTRUCTION EXIT
- TIMBER MATTING AT CONSTRUCTION EXIT
- CHANNEL LINERS
- SEDIMENT TRAPS
- SEDIMENT BASIN
- STORM INLET SEDIMENT TRAP
- STONE OUTLET STRUCTURES
- CURBS AND GUTTERS
- STORM SEWERS
- VELOCITY CONTROL DEVICES

OTHER:

NOTES:

1. INSTALL SOIL RETENTION BLANKETS ON ALL EXPOSED SLOPES GREATER THAN 3:1 AT THE DIRECTION OF THE DART ENGINEER, OR AS SPECIFICALLY SHOWN ON THE DRAWINGS.
2. DIVERSION, INTERCEPTOR, OR PERIMETER DIKES AND/OR SWALES SHALL BE INSTALLED AT THE DIRECTION OF THE DART ENGINEER, OR AS SPECIFICALLY SHOWN ON THE DRAWINGS.
3. THE CONTRACTOR MAY BE REQUIRED BY THE DART ENGINEER TO INSTALL OTHER STRUCTURAL CONTROL MEASURES NOT NOTED ABOVE.

NARRATIVE - SEQUENCE OF CONSTRUCTION (STORM WATER MANAGEMENT) ACTIVITIES:

THE ORDER OF ACTIVITIES SHALL BE AS FOLLOWS:

1. INSTALL INLET PROTECTION FILTERS AT EXISTING INLETS IN EXISTING PARKING LOT AND ALONG ARAPAHO RD. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCES.
2. INSTALL SILT FENCES, AND/OR CURB INLET SEDIMENT FILTERS:
 - A. AROUND TOPSOIL STOCKPILES AND AT EMBANKMENT AND EXCAVATION LOCATIONS.
 - B. AROUND ALL NEW AND TEMPORARY INLETS AS SOON AS THEY ARE FUNCTIONAL.
3. GRADE THE PROJECT TO SUBGRADE. TEMPORARILY SEED OR MULCH THE DISTURBED AREAS UNLESS CONSTRUCTION ACTIVITY IS TO RESUME WITHIN 21 DAYS.
4. INSTALL SOIL RETENTION BLANKETS ON ALL EXPOSED SLOPES GREATER THAN 3:1.
5. CONSTRUCT IMPROVEMENTS AND DETOURS WITHIN PROJECT LIMITS.
6. APPLY PERMANENT SEEDING WHERE APPLICABLE.
7. WHEN ALL CONSTRUCTION ACTIVITY IS COMPLETE AND THE SITE IS STABILIZED AND APPROVED BY THE ENGINEER, REMOVE ALL TEMPORARY STRUCTURAL CONTROLS AND RE-SEED ANY AREAS DISTURBED BY THEIR REMOVAL. ANY PERIMETER CONTROLS SHALL REMAIN IN PLACE UNTIL FINAL STABILIZATION OF THE AREA UPSTREAM.

STORM WATER MANAGEMENT:

STORM WATER RUNOFF WILL BE COLLECTED BY THE ON-SITE GRATE INLETS, CURB INLETS, AND UNDERGROUND STORM SEWER SYSTEMS ALONG QUORUM DR. AND ARAPAHO RD. THESE SYSTEMS WILL CARRY DRAINAGE WITHIN THE DART PROPERTY TO THE TOWN OF ADDISON STORM SEWER SYSTEMS. PERMANENT EROSION CONTROLS INCLUDE HYDRAULIC DESIGN TO LIMIT STRUCTURE OUTLET VELOCITIES AND FINAL GRADING GENERALLY CONSISTING OF 6:1 OR FLATTER SLOPES WITH A PERMANENT VEGETATIVE COVER.

OTHER EROSION AND SEDIMENT CONTROLS:

MAINTENANCE:

ALL EROSION AND SEDIMENT CONTROLS WILL BE MAINTAINED IN GOOD WORKING ORDER. IF A REPAIR IS NECESSARY, IT WILL BE DONE AT THE EARLIEST DATE POSSIBLE, BUT NO LATER THAN 7 CALENDAR DAYS AFTER THE SURROUNDING EXPOSED GROUND HAS DRIED SUFFICIENTLY TO PREVENT FURTHER DAMAGE FROM HEAVY EQUIPMENT. THE AREAS ADJACENT TO CREEKS AND DRAINAGE WAYS SHALL HAVE PRIORITY FOLLOWED BY DEVICES PROTECTING STORM SEWER INLETS.

INSPECTION:

AN INSPECTION WILL BE PERFORMED BY A DART INSPECTOR EVERY WEEK AS WELL AS AFTER EVERY RAIN OF HAL INCH OR MORE (AS RECORDED ON A RAIN GAUGE TO BE LOCATED AT THE PROJECT SITE). AN INSPECTION AND MAINTENANCE REPORT WILL BE MADE PER EACH INSPECTION. BASED ON THE INSPECTION RESULTS, THE CONTROLS SHALL BE REVISED PER THE INSPECTION REPORT.

WASTE MATERIALS:

ALL WASTE MATERIALS WILL BE COLLECTED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL STATE AND LOCAL CITY SOLID WASTE MANAGEMENT REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN THE DUMPSTER. THE DUMPSTER WILL BE EMPTIED AS NECESSARY OR AS REQUIRED BY LOCAL REGULATION, AND THE TRASH WILL BE HAULED TO A LOCAL DUMP. NO CONSTRUCTION WASTE MATERIAL WILL BE BURIED ON SITE.

HAZARDOUS WASTE (INCLUDING SPILL REPORTING):

AT A MINIMUM, ANY PRODUCTS IN THE FOLLOWING CATEGORIES ARE CONSIDERED TO BE HAZARDOUS: PAINTS, ACIDS FOR CLEANING MASONRY SURFACES, CLEANING SOLVENTS, ASPHALT PRODUCTS, CHEMICAL ADDITIVES FOR SOIL STABILIZATION, OR CONCRETE CURING COMPOUNDS AND ADDITIVES. IN THE EVENT OF A SPILL WHICH MAY BE HAZARDOUS, THE AUTHORITY SHOULD BE CONTACTED IMMEDIATELY.

SANITARY WASTE:

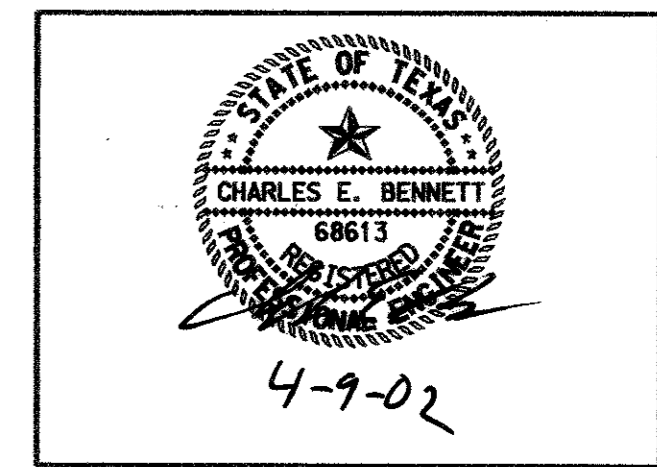
ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS AS NECESSARY OR AS REQUIRED BY LOCAL REGULATION BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR.

OFFSITE VEHICLE TRACKING:

- HAUL ROADS DAMPENED FOR DUST CONTROL
- LOADED HAUL TRUCKS TO BE COVERED WITH TARPULIN
- EXCESS DIRT ON ROAD REMOVED DAILY
- STABILIZED CONSTRUCTION ENTRANCE

OTHER:

DISPOSAL AREAS, STOCKPILES, AND HAUL ROADS SHALL BE CONSTRUCTED IN A MANNER THAT WILL MINIMIZE AND CONTROL THE AMOUNT OF SEDIMENT THAT MAY ENTER RECEIVING WATERS. DISPOSAL AREAS SHALL NOT BE LOCATED IN ANY WETLAND, WATERBODY, OR STREAMBED. CONSTRUCTION STAGING AREAS AND HAUL ROADS SHALL BE CONSTRUCTED IN A MANNER TO MINIMIZE THE RUNOFF OF POLLUTANTS. ALL WATERWAYS SHALL BE CLEARED AS SOON AS PRACTICABLE OR TEMPORARY EMBANKMENTS, TEMPORARY BRIDGES, MATTING, FALSEWORK, PILING, DEBRIS OR OTHER OBSTRUCTIONS PLACED DURING CONSTRUCTION OPERATIONS THAT ARE NOT A PART OF THE FINISHED WORK.



REV	DATE	DESCRIPTION	BY	ENG	CHK	APP	REV	DATE	DESCRIPTION	BY	ENG	CHK	APP
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TURNER COLLIE & BRADEN INC.
LINDA TYCHER & ASSOCIATES
ARS ENGINEERS INC.

DART PROJECT

SCALE
DRAWN J. RATCLIFF
DESIGNED J. RATCLIFF
CHECKED C. BENNETT
IN CHARGE G. SHIPPY
DATE APRIL 2002

CONTRACT SHEET NO. 9 OF 13

ADDISON TRANSIT CENTER SWPPP GENERAL NOTES

CONTRACT C-96000124-28 DWG NO. REV 0

SITE DESCRIPTION

PROJECT LIMITS:

AN APPROXIMATE 4 SIDED PARCEL OF LAND SITUATED BETWEEN THE FOLLOWING: EXISTING DART TRANSIT CENTER, ARAPAHO ROAD, ADDISON ROAD AND A FUTURE DART RAIL LINE.

PROJECT DESCRIPTION:

CONSTRUCTION OF A 13,000 S.F. PAVED PARKING LOT WITH PARK LIKE LANDSCAPING, GRADING, DRAINAGE, SUBGRADE PREPARATION, CURBING, CONCRETE PAVING, SIGNING, AND PAVEMENT MARKINGS. UPGRADE EXISTING UTILITIES AND STORM DRAINAGE IMPROVEMENTS.

MAJOR SOIL DISTURBING ACTIVITIES:

CLEARING AND GRUBBING, GRADING, EXCAVATION, COMPACTION, DRIVEWAYS AND PARKING LOTS CONCRETE FORMWORK, STORM SEWER CONSTRUCTION, EROSION AND SEDIMENT CONTROLS, AND TOPSOIL WORK FOR FINAL PLANTING AND SEEDING.

TOTAL PROJECT AREA: 0.514 ACRES

TOTAL AREA TO BE DISTURBED: 0.396 ACRES

WEIGHTED RUNOFF COEFFICIENT (AFTER CONSTRUCTION): 0.68

EXISTING CONDITION OF SOIL & VEGETATIVE COVER AND % OF EXISTING VEGETATIVE COVER:

THE SITE IS GENERALLY COVERED WITH SHORT GRASS. THE SITE IS LOCATED IN AN AREA UNDERLAIN BY DEPOSITS OF THE AUSTIN CHALK LIMESTONE FORMATION CONSISTS OF GRAY CHALKY LIMESTONE WITH SOME SHALE AND PARTINGS.

NAME OF RECEIVING WATERS:

THE PROJECT DRAINS INTO THE WHITE ROCK CREEK VIA UNDERGROUND STORM SEWERS AND OPEN CHANNELS.

EROSION AND SEDIMENT CONTROLS

SOIL STABILIZATION PRACTICES:

- TEMPORARY SEEDING
- PERMANENT PLANTING, SODDING, OR SEEDING
- MULCHING
- SOIL RETENTION BLANKET
- BUFFER ZONE
- PRESERVATION OF NATURAL RESOURCES

OTHER:

DISTURBED AREAS ON WHICH CONSTRUCTION ACTIVITY HAS CEASED (TEMPORARILY OR PERMANENTLY) SHALL BE STABILIZED WITHIN 14 DAYS UNLESS ACTIVITIES ARE SCHEDULED TO RESUME WITHIN 21 DAYS.

() DENOTES NOTES UNDER STRUCTURAL PRACTICES: OTHER.

EROSION AND SEDIMENT CONTROLS

STRUCTURAL PRACTICES:

- SILT FENCES
- HAY BALES
- ROCK BERMS
- DIVERSION, INTERCEPTOR, OR PERIMETER DIKES
- DIVERSION, INTERCEPTOR, OR PERIMETER SWALES
- DIVERSION DIKE AND SWALE COMBINATIONS
- PIPE SLOPE DRAINS
- PAVED FLUMES
- ROCK BEDDING AT CONSTRUCTION EXIT
- TIMBER MATTING AT CONSTRUCTION EXIT
- CHANNEL LINERS
- SEDIMENT TRAPS
- SEDIMENT BASIN
- STORM INLET SEDIMENT TRAP
- STONE OUTLET STRUCTURES
- CURBS AND GUTTERS
- STORM SEWERS
- VELOCITY CONTROL DEVICES

OTHER:

NOTES:

1. INSTALL SOIL RETENTION BLANKETS ON ALL EXPOSED SLOPES GREATER THAN 3:1 AT THE DIRECTION OF THE DART ENGINEER, OR AS SPECIFICALLY SHOWN ON THE DRAWINGS.
2. DIVERSION, INTERCEPTOR, OR PERIMETER DIKES AND/OR SWALES SHALL BE INSTALLED AT THE DIRECTION OF THE DART ENGINEER, OR AS SPECIFICALLY SHOWN ON THE DRAWINGS.
3. THE CONTRACTOR MAY BE REQUIRED BY THE DART ENGINEER TO INSTALL OTHER STRUCTURAL CONTROL MEASURES NOT NOTED ABOVE.

NARRATIVE - SEQUENCE OF CONSTRUCTION (STORM WATER MANAGEMENT) ACTIVITIES:

THE ORDER OF ACTIVITIES SHALL BE AS FOLLOWS:

1. INSTALL INLET PROTECTION FILTERS AT EXISTING INLETS IN EXISTING PARKING LOT AND ALONG ARAPAHO RD. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCES.
2. INSTALL SILT FENCES, AND/OR CURB INLET SEDIMENT FILTERS:
 - A. AROUND TOPSOIL STOCKPILES AND AT EMBANKMENT AND EXCAVATION LOCATIONS.
 - B. AROUND ALL NEW AND TEMPORARY INLETS AS SOON AS THEY ARE FUNCTIONAL.
3. GRADE THE PROJECT TO SUBGRADE. TEMPORARILY SEED OR MULCH THE DISTURBED AREAS UNLESS CONSTRUCTION ACTIVITY IS TO RESUME WITHIN 21 DAYS.
4. INSTALL SOIL RETENTION BLANKETS ON ALL EXPOSED SLOPES GREATER THAN 3:1.
5. CONSTRUCT IMPROVEMENTS AND DETOURS WITHIN PROJECT LIMITS.
6. APPLY PERMANENT SEEDING WHERE APPLICABLE.
7. WHEN ALL CONSTRUCTION ACTIVITY IS COMPLETE AND THE SITE IS STABILIZED AND APPROVED BY THE ENGINEER, REMOVE ALL TEMPORARY STRUCTURAL CONTROLS AND RE-SEED ANY AREAS DISTURBED BY THEIR REMOVAL. ANY PERIMETER CONTROLS SHALL REMAIN IN PLACE UNTIL FINAL STABILIZATION OF THE AREA UPSTREAM.

STORM WATER MANAGEMENT:

STORM WATER RUNOFF WILL BE COLLECTED BY THE ON-SITE GRATE INLETS, CURB INLETS, AND UNDERGROUND STORM SEWER SYSTEMS ALONG QUORUM DR. AND ARAPAHO RD. THESE SYSTEMS WILL CARRY DRAINAGE WITHIN THE DART PROPERTY TO THE TOWN OF ADDISON STORM SEWER SYSTEMS. PERMANENT EROSION CONTROLS INCLUDE HYDRAULIC DESIGN TO LIMIT STRUCTURE OUTLET VELOCITIES AND FINAL GRADING GENERALLY CONSISTING OF 6:1 OR FLATTER SLOPES WITH A PERMANENT VEGETATIVE COVER.

OTHER EROSION AND SEDIMENT CONTROLS:

MAINTENANCE:

ALL EROSION AND SEDIMENT CONTROLS WILL BE MAINTAINED IN GOOD WORKING ORDER. IF A REPAIR IS NECESSARY, IT WILL BE DONE AT THE EARLIEST DATE POSSIBLE, BUT NO LATER THAN 7 CALENDAR DAYS AFTER THE SURROUNDING EXPOSED GROUND HAS DRIED SUFFICIENTLY TO PREVENT FURTHER DAMAGE FROM HEAVY EQUIPMENT. THE AREAS ADJACENT TO CREEKS AND DRAINAGE WAYS SHALL HAVE PRIORITY FOLLOWED BY DEVICES PROTECTING STORM SEWER INLETS.

INSPECTION:

AN INSPECTION WILL BE PERFORMED BY A DART INSPECTOR EVERY WEEK AS WELL AS AFTER EVERY RAIN OF HAL INCH OR MORE (AS RECORDED ON A RAIN GAUGE TO BE LOCATED AT THE PROJECT SITE). AN INSPECTION AND MAINTENANCE REPORT WILL BE MADE PER EACH INSPECTION. BASED ON THE INSPECTION RESULTS, THE CONTROLS SHALL BE REVISED PER THE INSPECTION REPORT.

WASTE MATERIALS:

ALL WASTE MATERIALS WILL BE COLLECTED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL STATE AND LOCAL CITY SOLID WASTE MANAGEMENT REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN THE DUMPSTER. THE DUMPSTER WILL BE EMPTIED AS NECESSARY OR AS REQUIRED BY LOCAL REGULATION, AND THE TRASH WILL BE HAULED TO A LOCAL DUMP. NO CONSTRUCTION WASTE MATERIAL WILL BE BURIED ON SITE.

HAZARDOUS WASTE (INCLUDING SPILL REPORTING):

AT A MINIMUM, ANY PRODUCTS IN THE FOLLOWING CATEGORIES ARE CONSIDERED TO BE HAZARDOUS: PAINTS, ACIDS FOR CLEANING MASONRY SURFACES, CLEANING SOLVENTS, ASPHALT PRODUCTS, CHEMICAL ADDITIVES FOR SOIL STABILIZATION, OR CONCRETE CURING COMPOUNDS AND ADDITIVES. IN THE EVENT OF A SPILL WHICH MAY BE HAZARDOUS, THE AUTHORITY SHOULD BE CONTACTED IMMEDIATELY.

SANITARY WASTE:

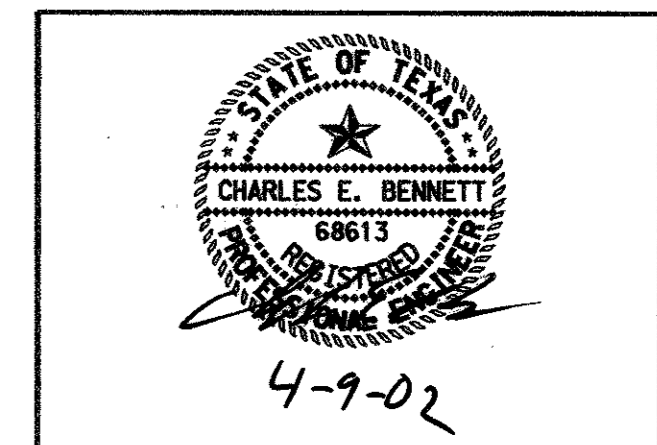
ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS AS NECESSARY OR AS REQUIRED BY LOCAL REGULATION BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR.

OFFSITE VEHICLE TRACKING:

- HAUL ROADS DAMPENED FOR DUST CONTROL
- LOADED HAUL TRUCKS TO BE COVERED WITH TARPULIN
- EXCESS DIRT ON ROAD REMOVED DAILY
- STABILIZED CONSTRUCTION ENTRANCE

OTHER:

DISPOSAL AREAS, STOCKPILES, AND HAUL ROADS SHALL BE CONSTRUCTED IN A MANNER THAT WILL MINIMIZE AND CONTROL THE AMOUNT OF SEDIMENT THAT MAY ENTER RECEIVING WATERS. DISPOSAL AREAS SHALL NOT BE LOCATED IN ANY WETLAND, WATERBODY, OR STREAMBED. CONSTRUCTION STAGING AREAS AND HAUL ROADS SHALL BE CONSTRUCTED IN A MANNER TO MINIMIZE THE RUNOFF OF POLLUTANTS. ALL WATERWAYS SHALL BE CLEARED AS SOON AS PRACTICABLE OR TEMPORARY EMBANKMENTS, TEMPORARY BRIDGES, MATTING, FALSEWORK, PILING, DEBRIS OR OTHER OBSTRUCTIONS PLACED DURING CONSTRUCTION OPERATIONS THAT ARE NOT A PART OF THE FINISHED WORK.



CONTRACT SHEET NO. 9 OF 13

ADDISON
TRANSIT CENTER
SWPPP GENERAL
NOTES

DART PROJECT

SCALE

DRAWN J. RATCLIFF
DESIGNED J. RATCLIFF
CHECKED C. BENNETT
IN CHARGE G. SHIPPY
DATE APRIL 2002

CONTRACT C-96000124-28 DWG NO. REV 0

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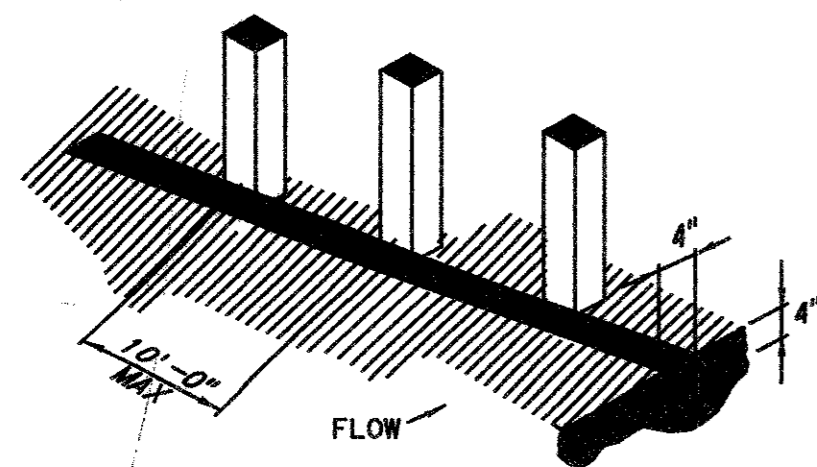
TURNER COLLIE & BRADEN INC.

LINDA TYCHER & ASSOCIATES

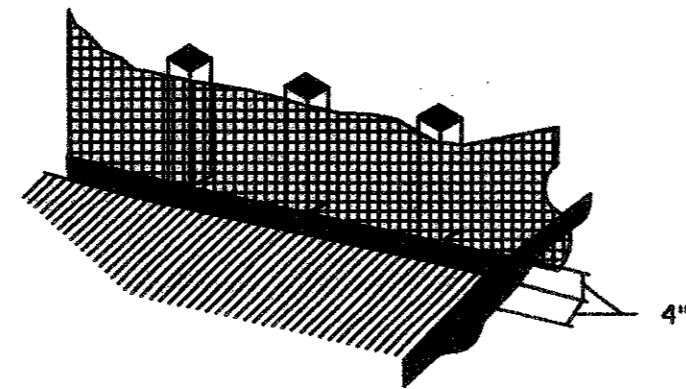
ARS ENGINEERS INC.

REINFORCED FILTER FABRIC BARRIER

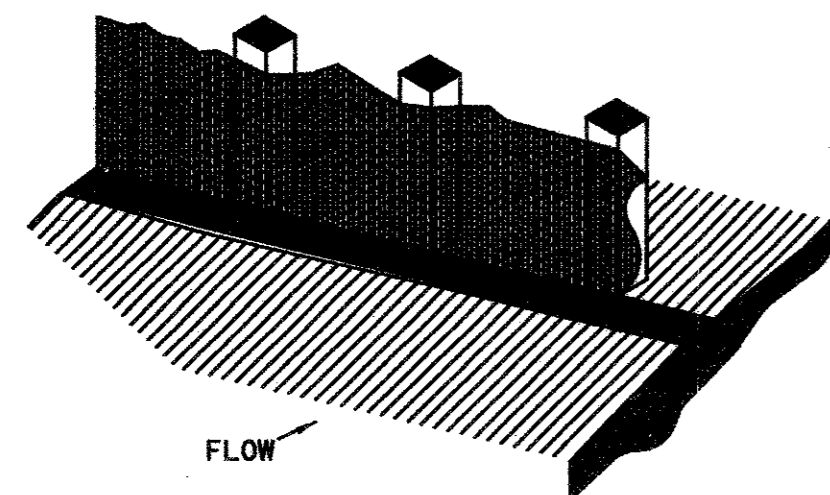
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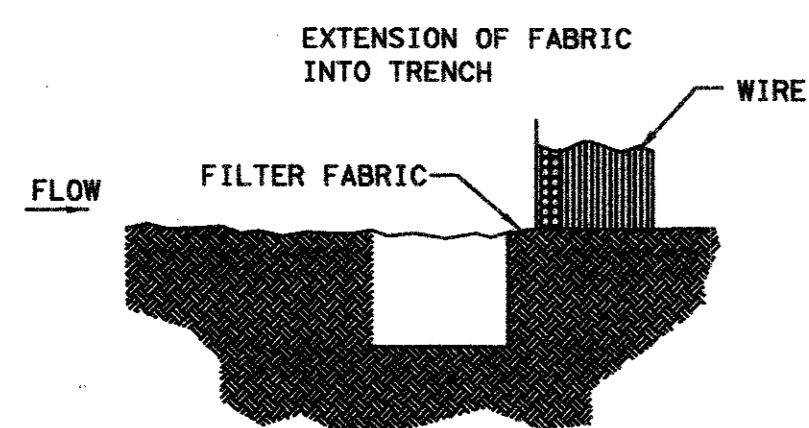
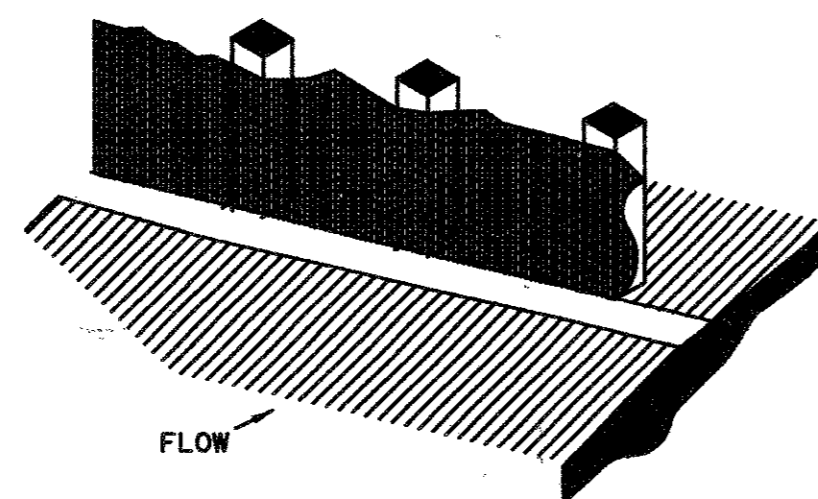
2. SECURE WIRE FENCING TO POSTS.



3. ATTACH FILTER MATERIAL TO WIRE FENCE AND EXTEND IT INTO THE TRENCH.



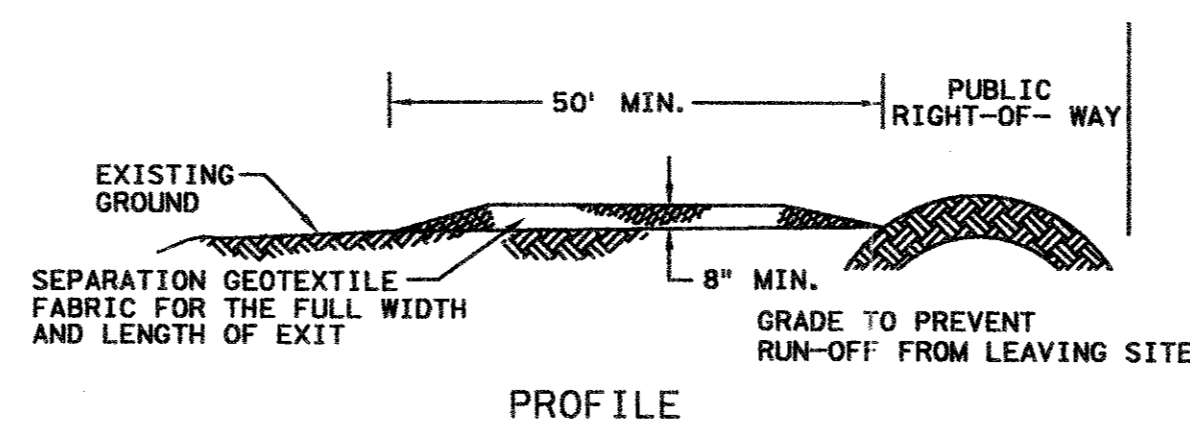
4. BACKFILL AND COMPACT THE EXCAVATED SOIL.



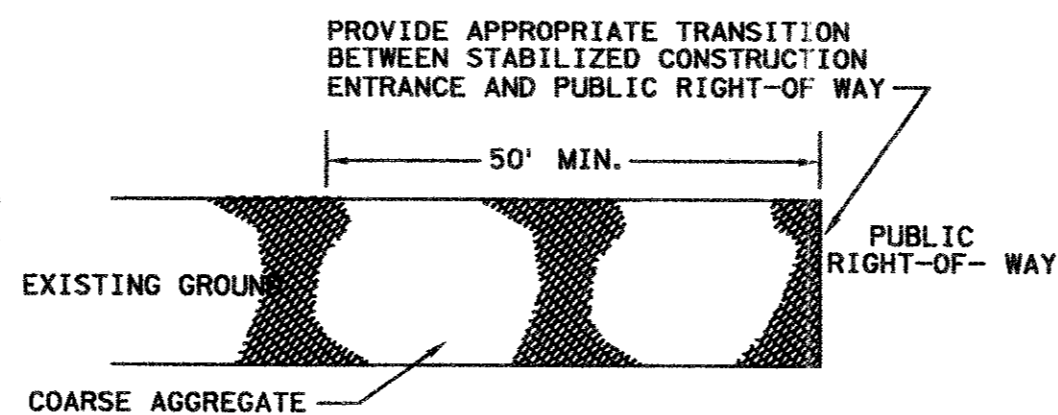
ITEM 4311 REINFORCED FILTER FABRIC BARRIER

GENERAL NOTES

- WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH STAPLES.
- FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE, WITH TIES SPACED EVERY 24 INCHES AT TOP AND MIDSECTION.
- WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED 6 INCHES AT THE POSTS, AND FOLDED.



PROFILE

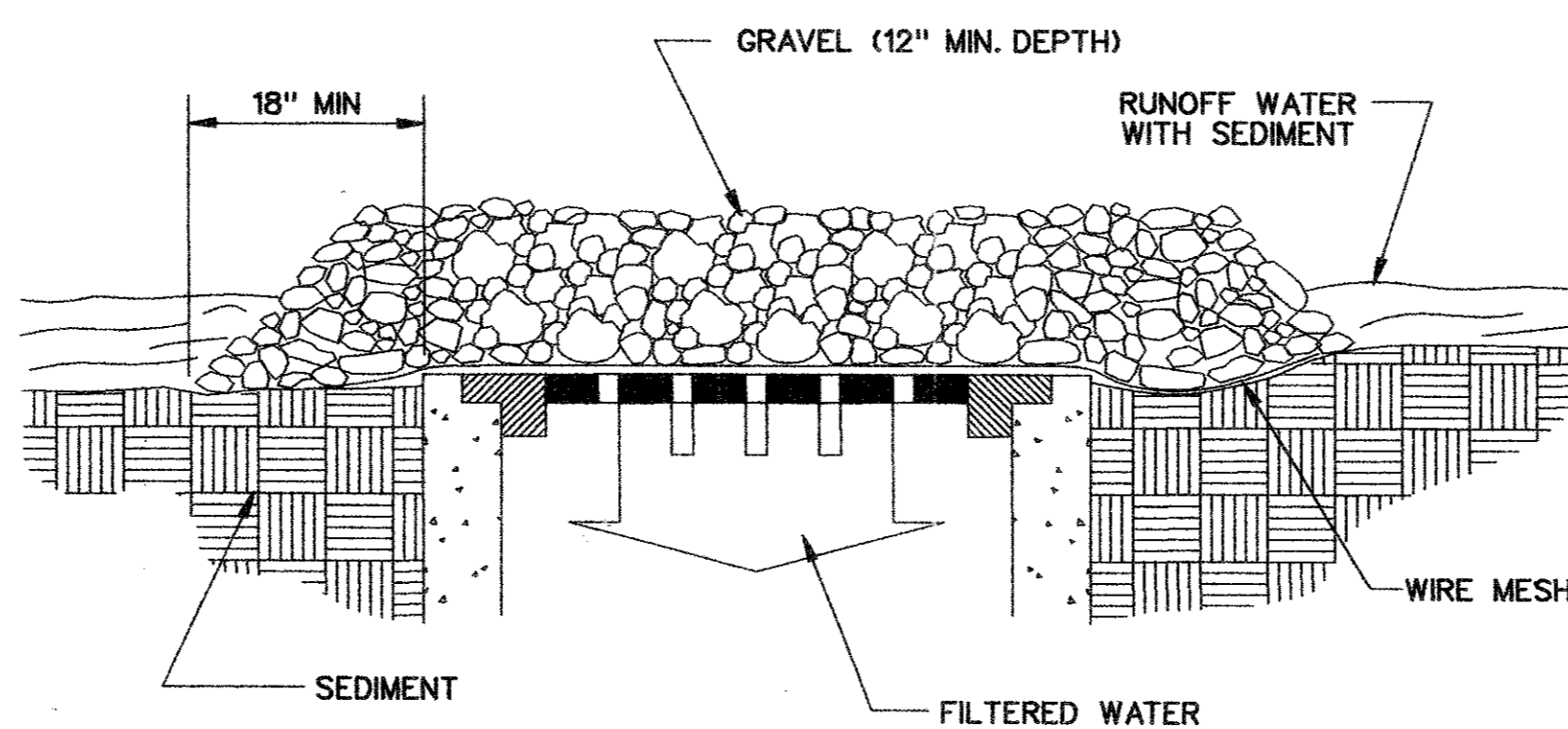


PLAN VIEW

GENERAL NOTES

- LENGTH SHALL BE AS SHOWN ON THE CONSTRUCTION DRAWINGS, BUT NOT LESS THAN 50 FEET.
- THICKNESS SHALL BE NOT LESS THAN 8 INCHES.
- WIDTH SHALL NOT BE LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS.
- STABILIZATION FOR OTHER AREAS SHALL HAVE THE SAME AGGREGATE THICKNESS AND WIDTH REQUIREMENTS AS THE STABILIZED CONSTRUCTION EXIT, UNLESS OTHERWISE SHOWN ON THE CONSTRUCTION DRAWINGS.
- STABILIZED AREA MAY BE WIDEN OR LENGTHEN TO ACCOMMODATE A TRUCK WASHING AREA, WHEN SHOWN ON THE CONSTRUCTION DRAWING. AN OUTLET SEDIMENT TRAP MUST BE PROVIDED FOR THE TRUCK WASHING AREA.

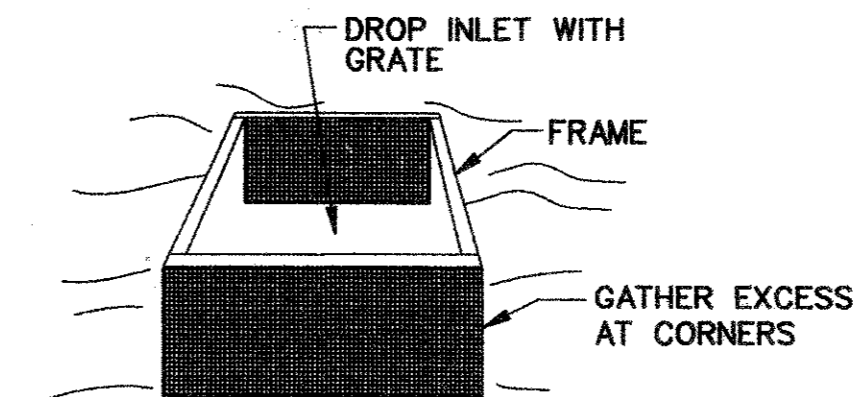
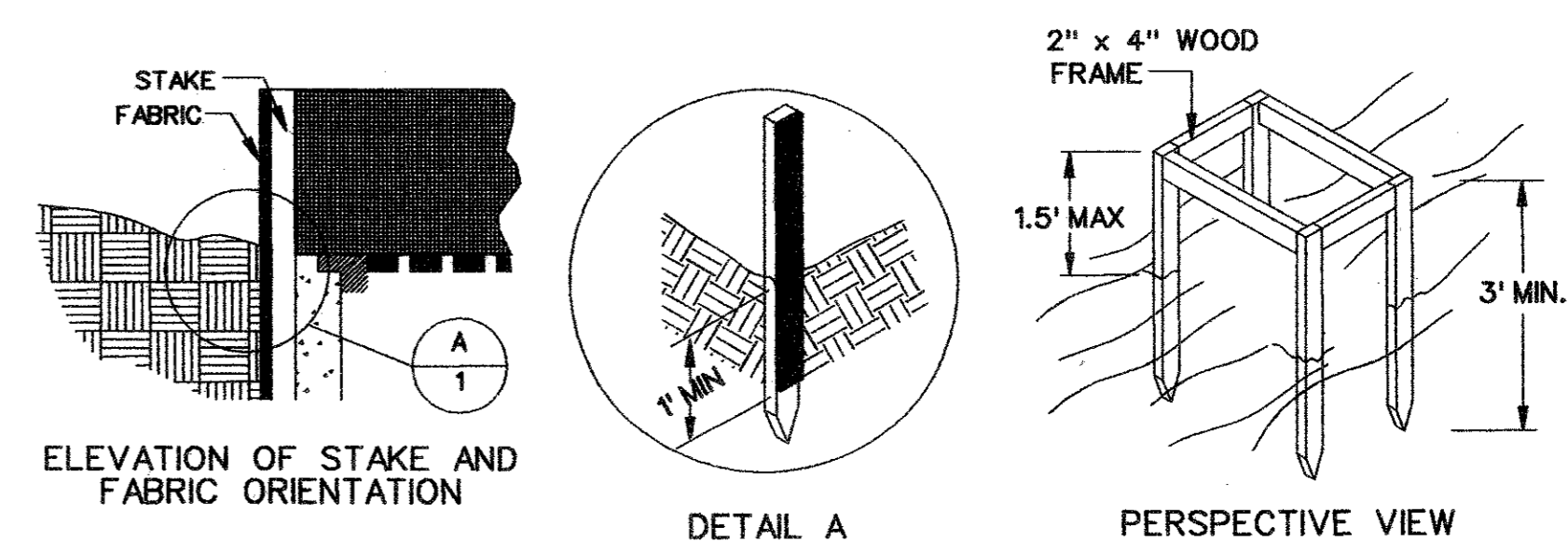
ITEM 4711 STABILIZED CONSTRUCTION EXIT



CROSS SECTION N.T.S.

SPECIFIC APPLICATION

THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE HEAVY CONCENTRATION FLOWS ARE EXPECTED, BUT NOT WHERE PONDING AROUND THE STRUCTURE MIGHT CAUSE EXCESSIVE AND UNPROTECTED AREAS.

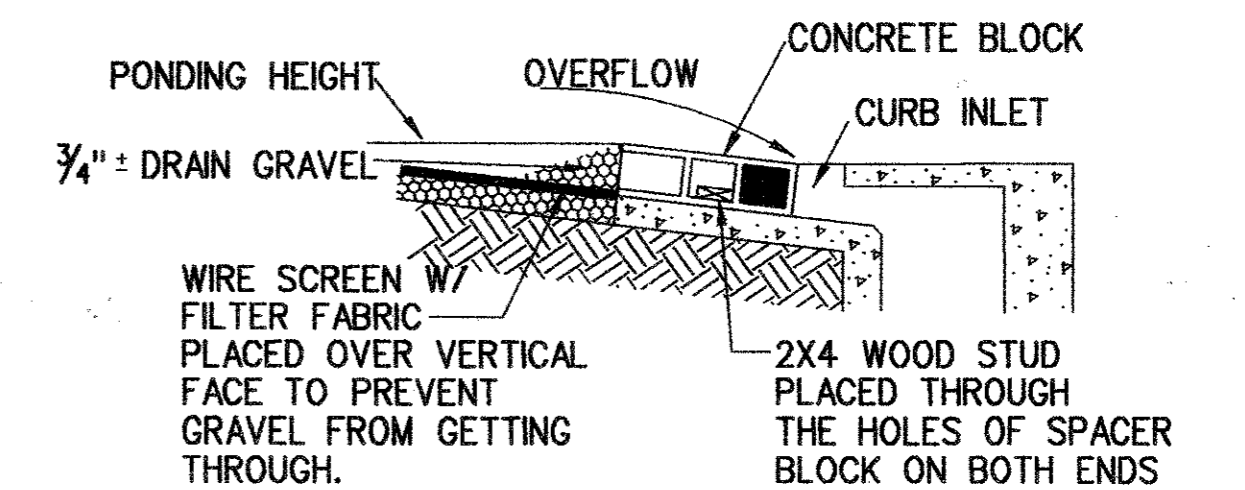
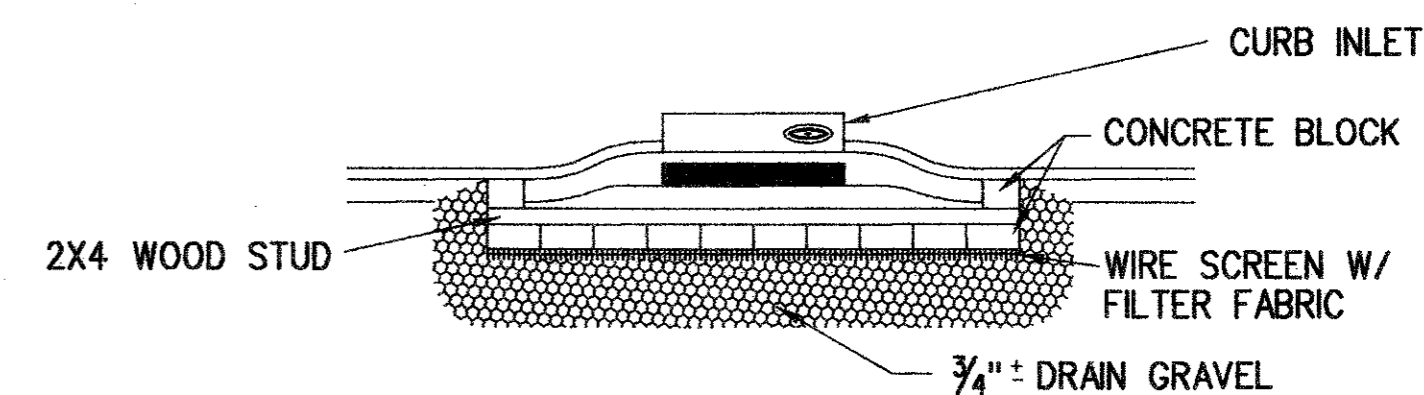


PERSPECTIVE VIEW FILTER FABRIC PROTECTION

N.T.S.

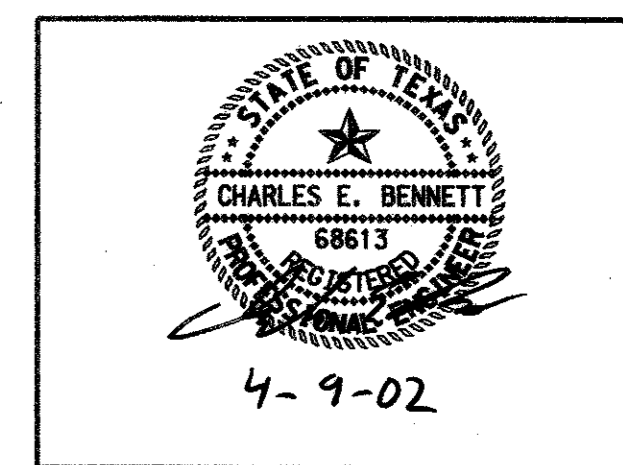
SPECIFIC APPLICATION

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CURB INLET PROTECTION

N.T.S.



CONTRACT SHEET NO. 10 OF 13

ADDISON TRANSIT CENTER SWPPP STANDARD DETAILS

REV	DATE	DESCRIPTION	BY	ENG	CHK	APP	REV	DATE	DESCRIPTION	BY	ENG	CHK	APP

TURNER COLLIE & BRADEN INC.
LINDA TYCHER & ASSOCIATES
ARS ENGINEERS INC.

DART PROJECT

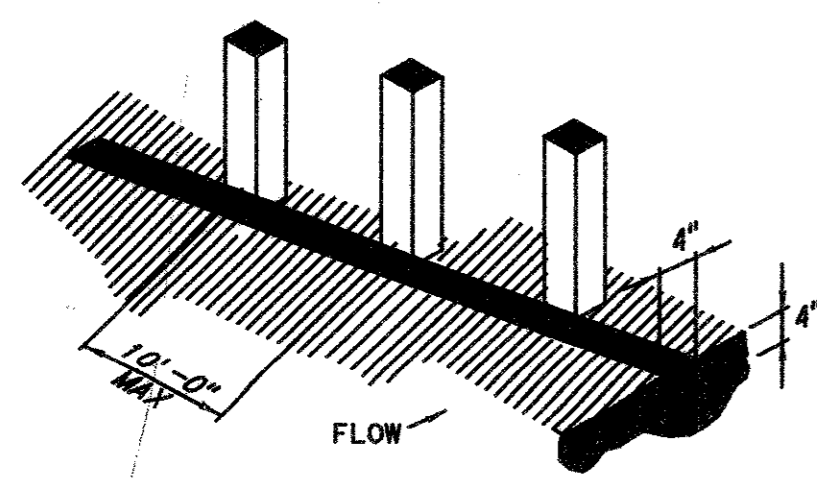


SCALE	
DRAWN	J. RATCLIFF
DESIGNED	J. RATCLIFF
CHECKED	C. BENNETT
IN CHARGE	G. SHIPPY
DATE	APRIL 2002

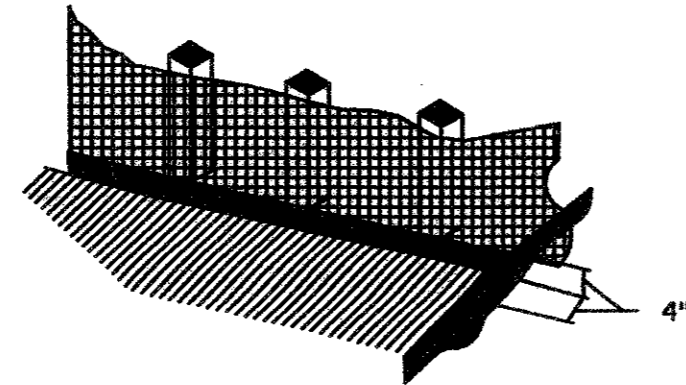
CONTRACT C-96000124-26 DWG NO. REV 0

REINFORCED FILTER FABRIC BARRIER

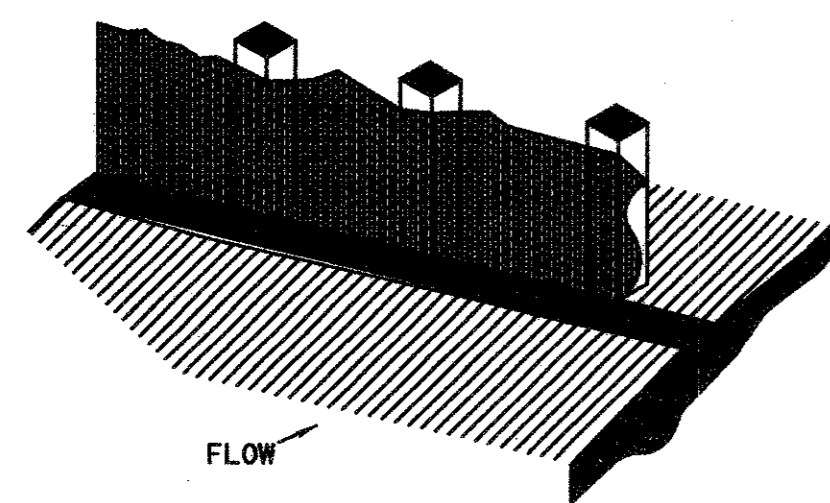
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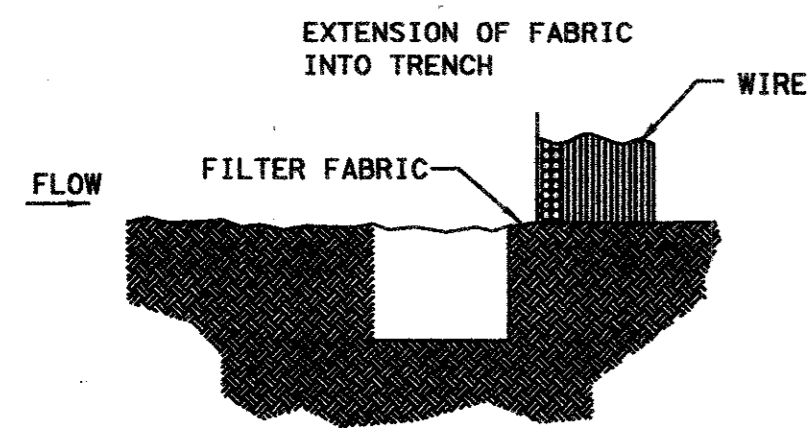
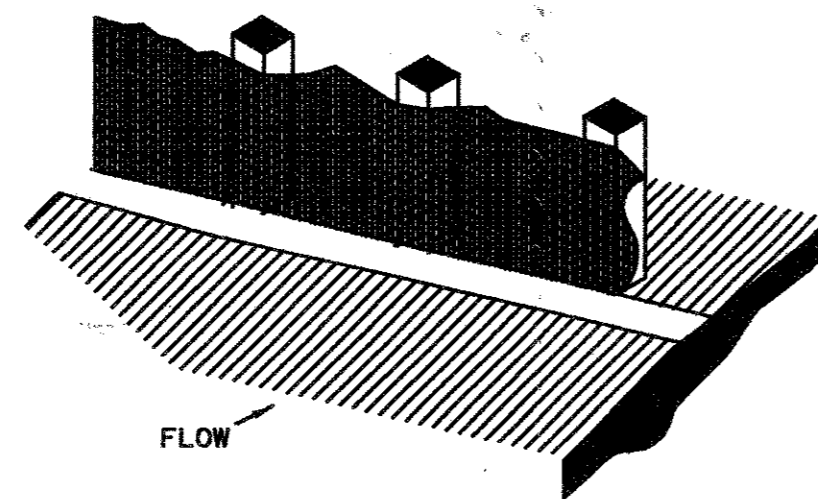
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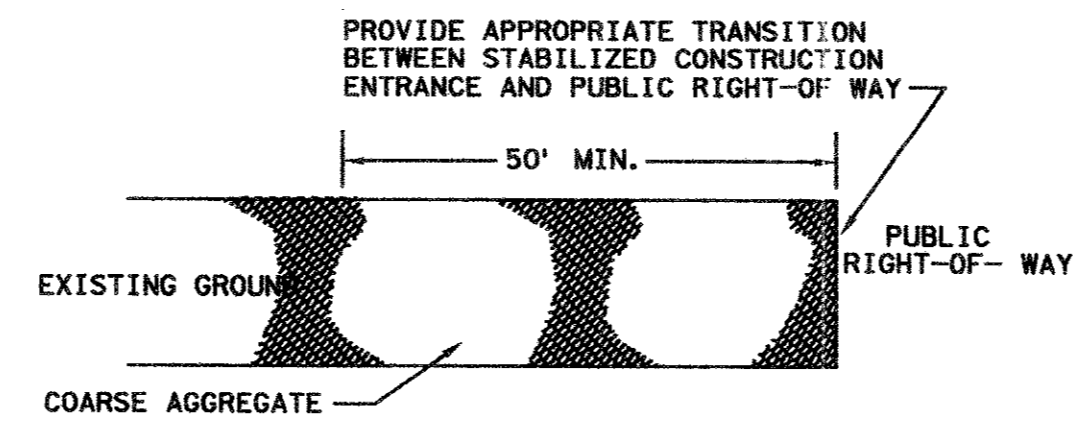
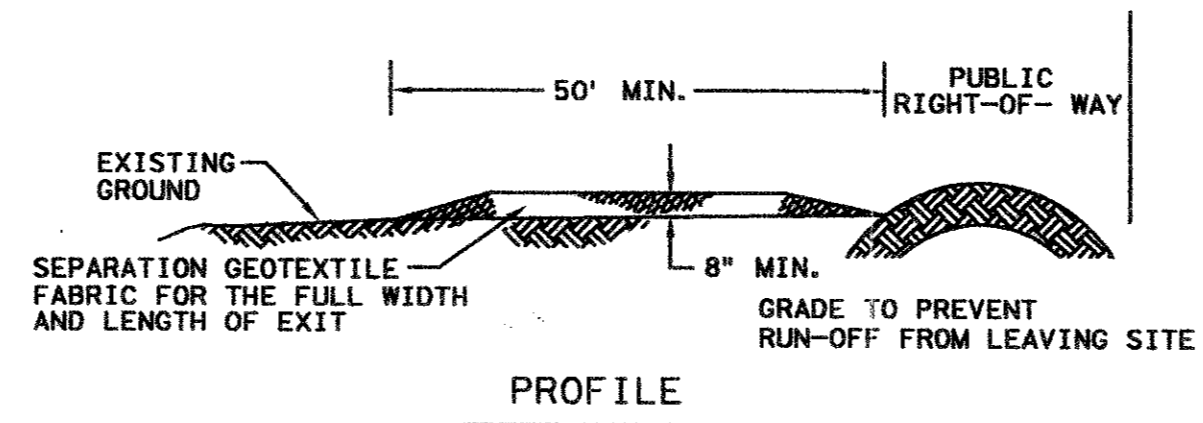
4. BACKFILL AND COMPACT THE EXCAVATED SOIL.



ITEM 4311 REINFORCED FILTER FABRIC BARRIER

GENERAL NOTES

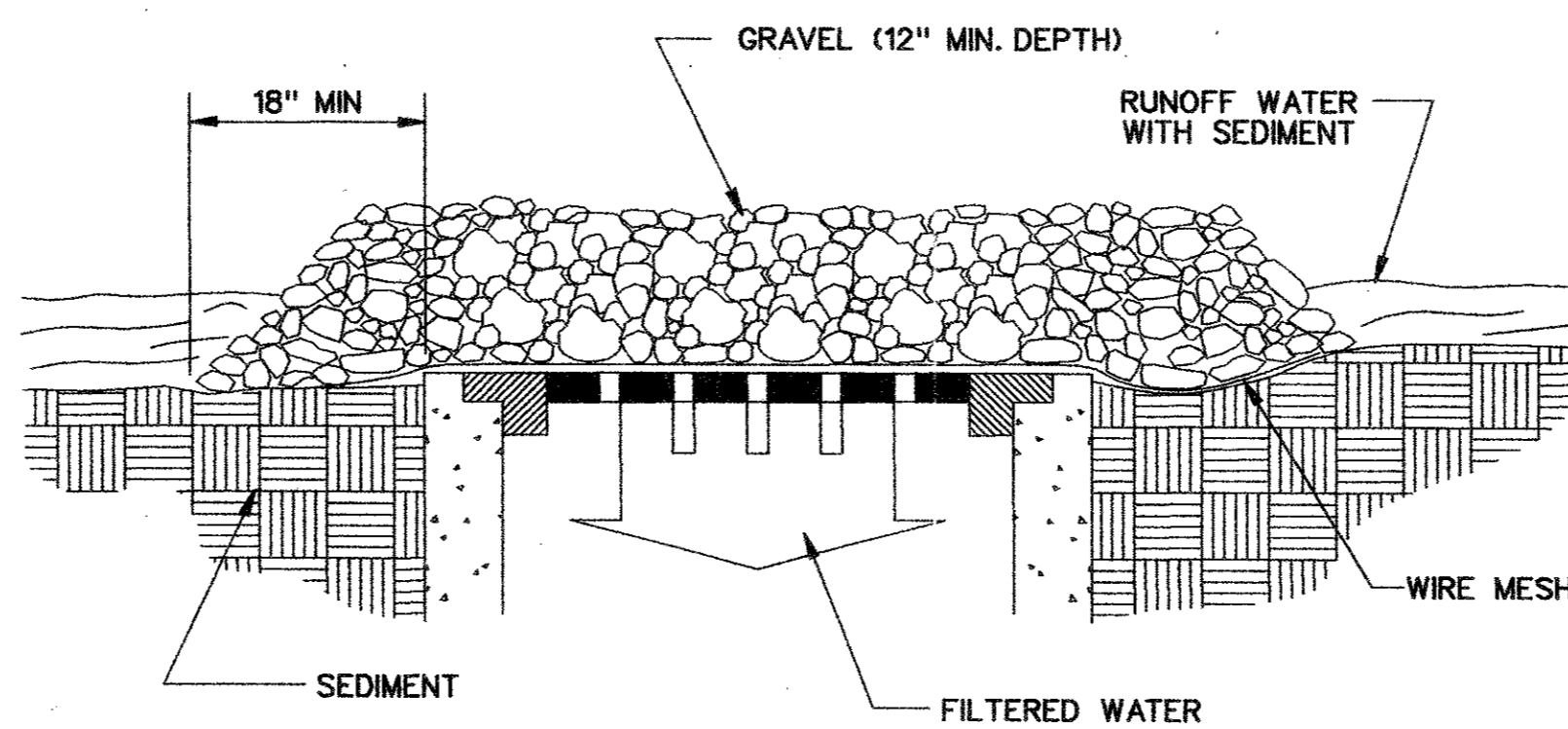
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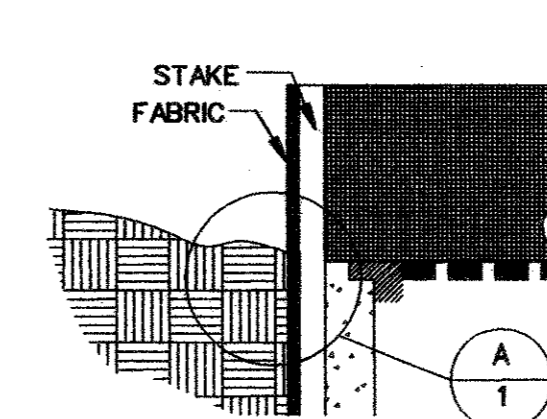
ITEM 4711 STABILIZED CONSTRUCTION EXIT



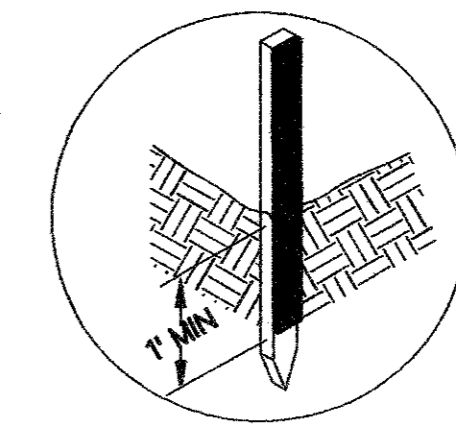
CROSS SECTION N.T.S.

SPECIFIC APPLICATION

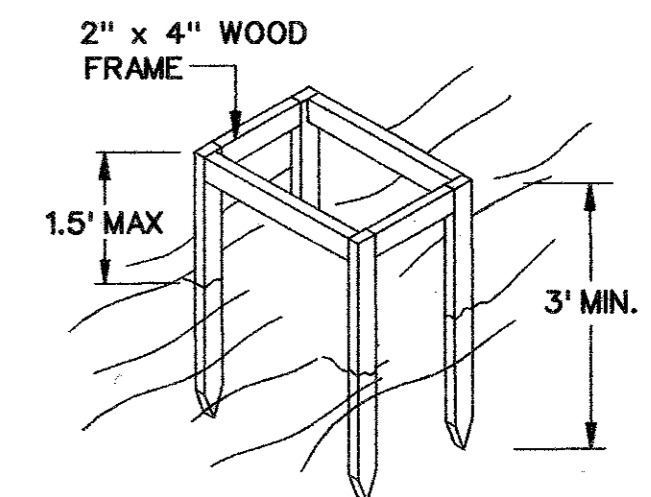
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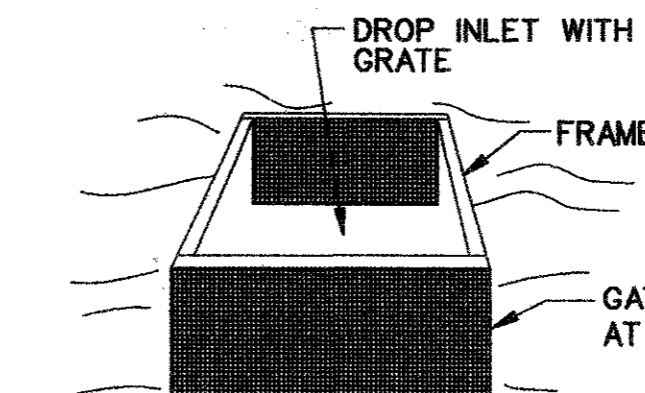
ELEVATION OF STAKE AND FABRIC ORIENTATION



DETAIL A



PERSPECTIVE VIEW



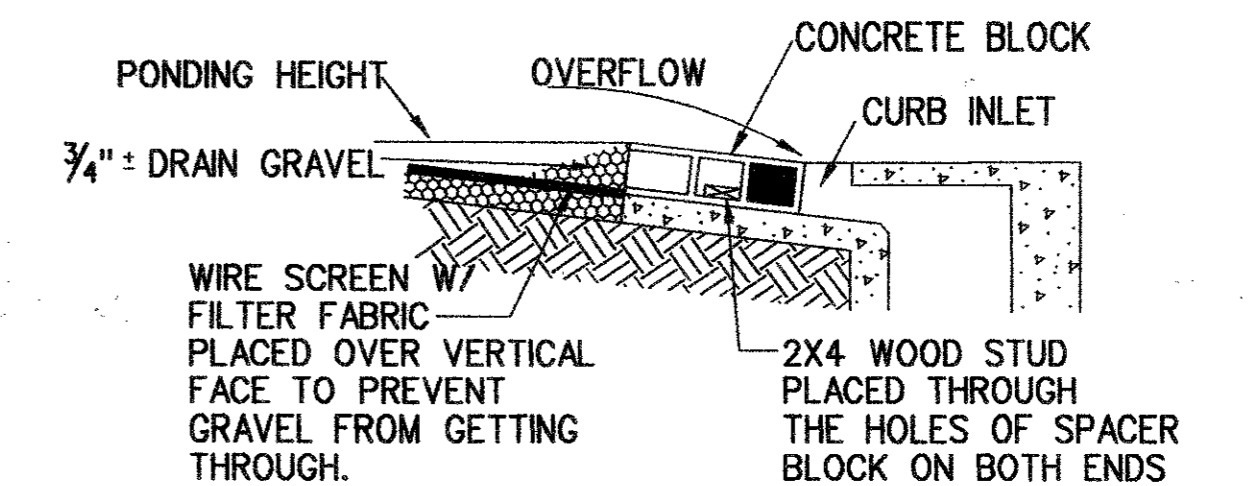
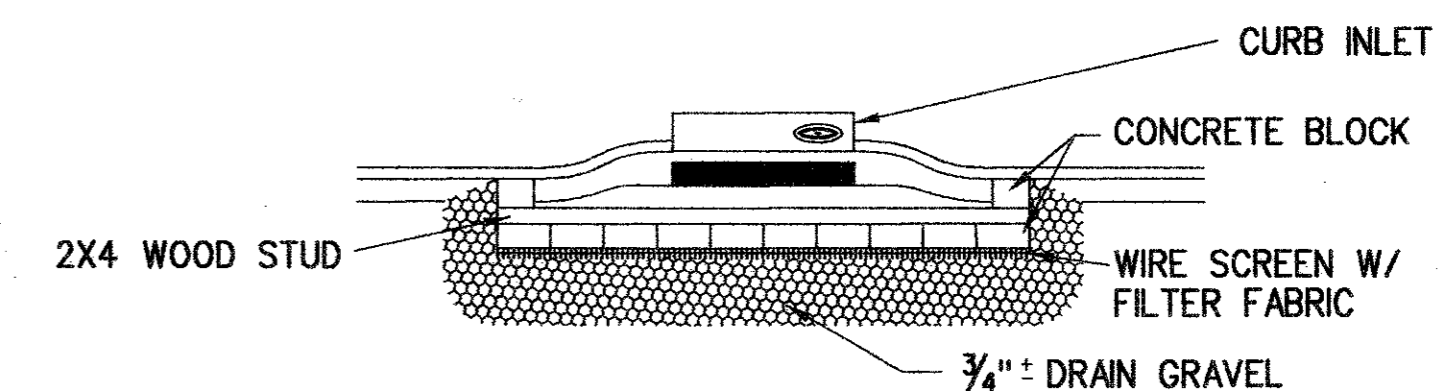
PERSPECTIVE VIEW

FILTER FABRIC PROTECTION

N.T.S.

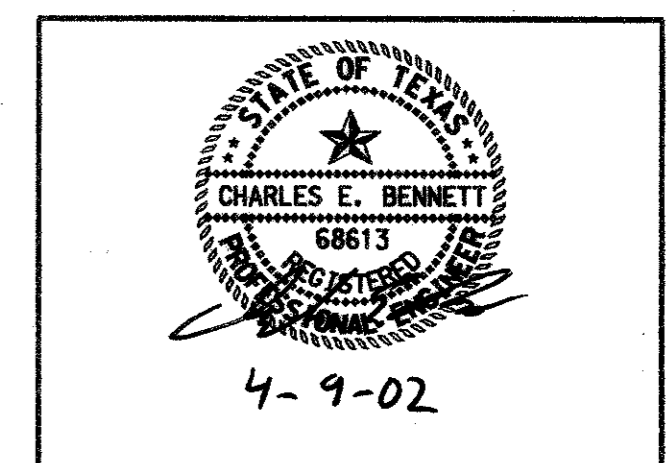
SPECIFIC APPLICATION

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CURB INLET PROTECTION

N.T.S.



CONTRACT SHEET NO. 10 OF 13

ADDISON TRANSIT CENTER SWPPP STANDARD DETAILS

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