

PLANS FOR THE CONSTRUCTION OF
 PAVING, BRIDGE, STORM SEWER, WATER, SANITARY SEWER
 SIGNALIZATION AND STREETScape IMPROVEMENTS FOR

ARAPAHO ROAD - PHASE III

FROM SURVEYOR BOULEVARD TO ADDISON ROAD

STATION 34+07.75 TO STATION 87+88.00 (LENGTH = 5381 FT = 1.02 MILES)

PROJECT RECORD COPY I

TOWN OF
ADDISON

R. SCOTT WHEELER
 MAYOR

DIANE MALLORY GLYNDA TURNER
 JIMMY NIEMANN GREGORY S. HIRSH
 COUNCIL MEMBERS

FREDERICK M. SILVER JOE CHOW
 MAYOR PRO TEMPORE DEPUTY MAYOR PRO TEMPORE

RON WHITEHEAD
 CITY MANAGER

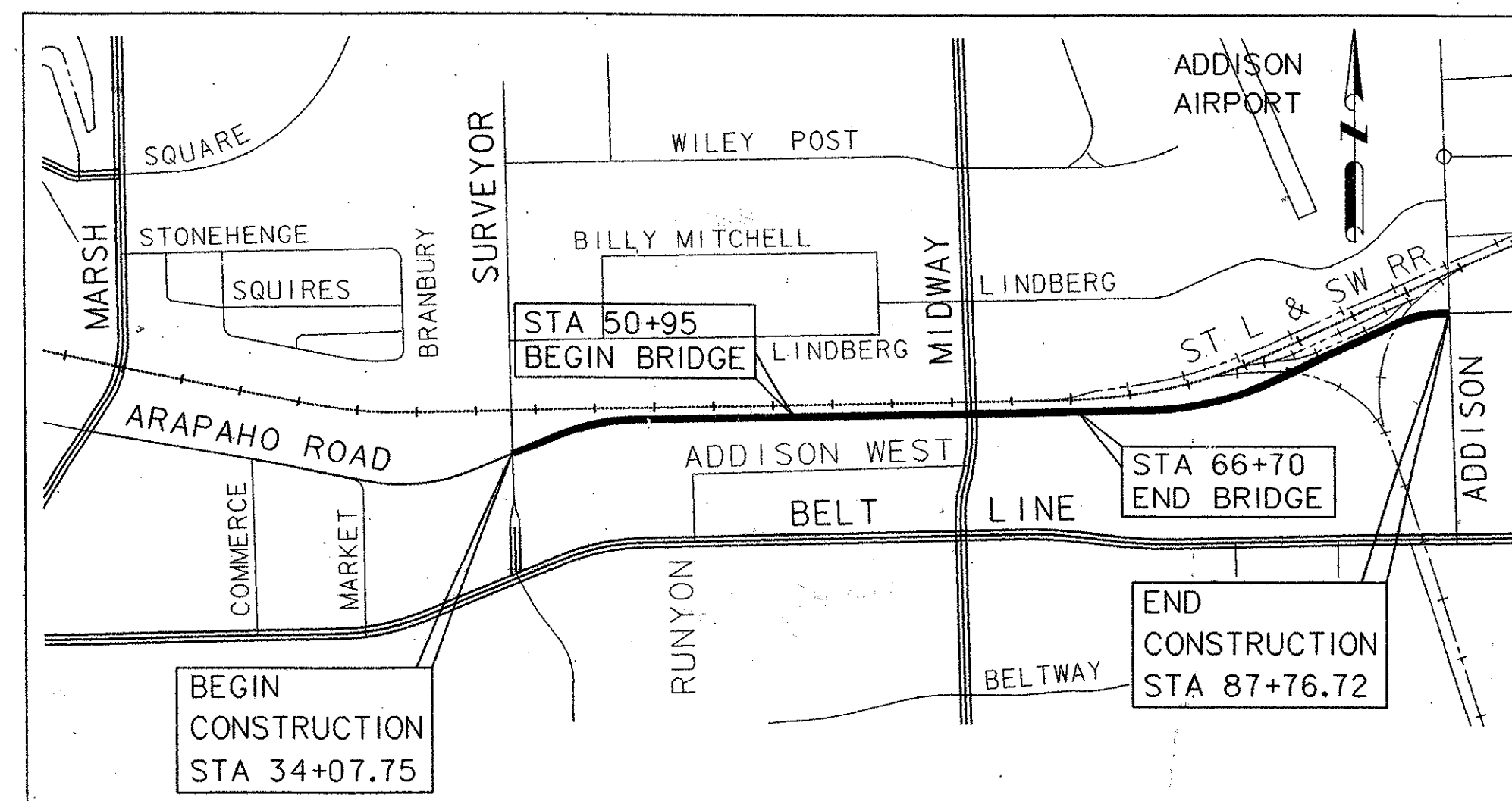
MIKE MURPHY
 DIRECTOR OF PUBLIC WORKS

OWNER:

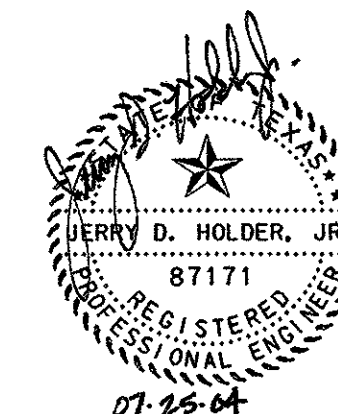
TOWN OF ADDISON
 DEPARTMENT OF PUBLIC WORKS
 16801 WESTGROVE
 P.O. BOX 144
 ADDISON, TEXAS 75001
 (972) 450-2886

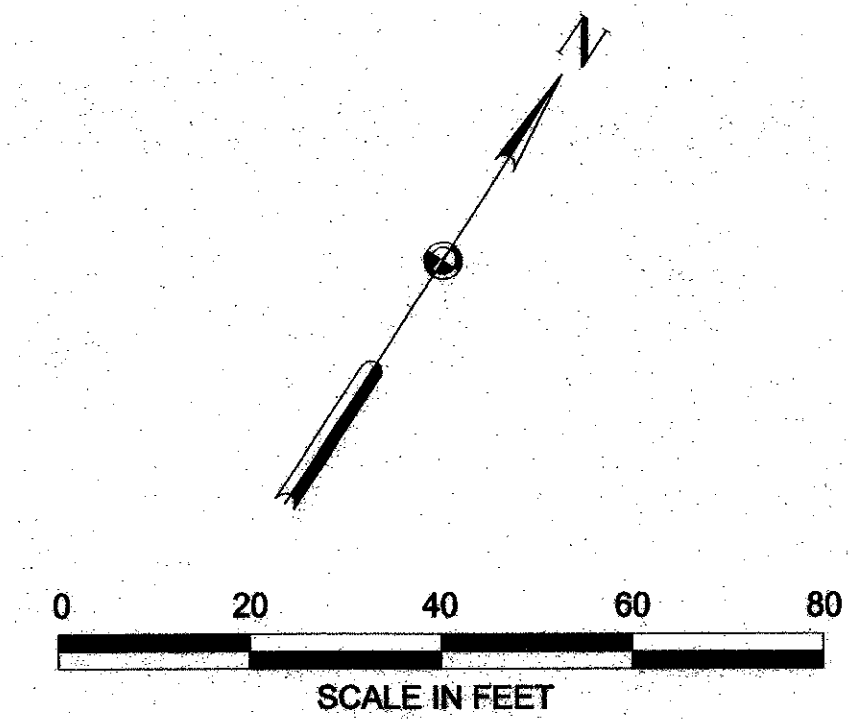
ENGINEER:

HNTB CORPORATION
 5910 WEST PLANO PARKWAY, SUITE 200
 DALLAS, TEXAS 75093
 (972) 661-5626



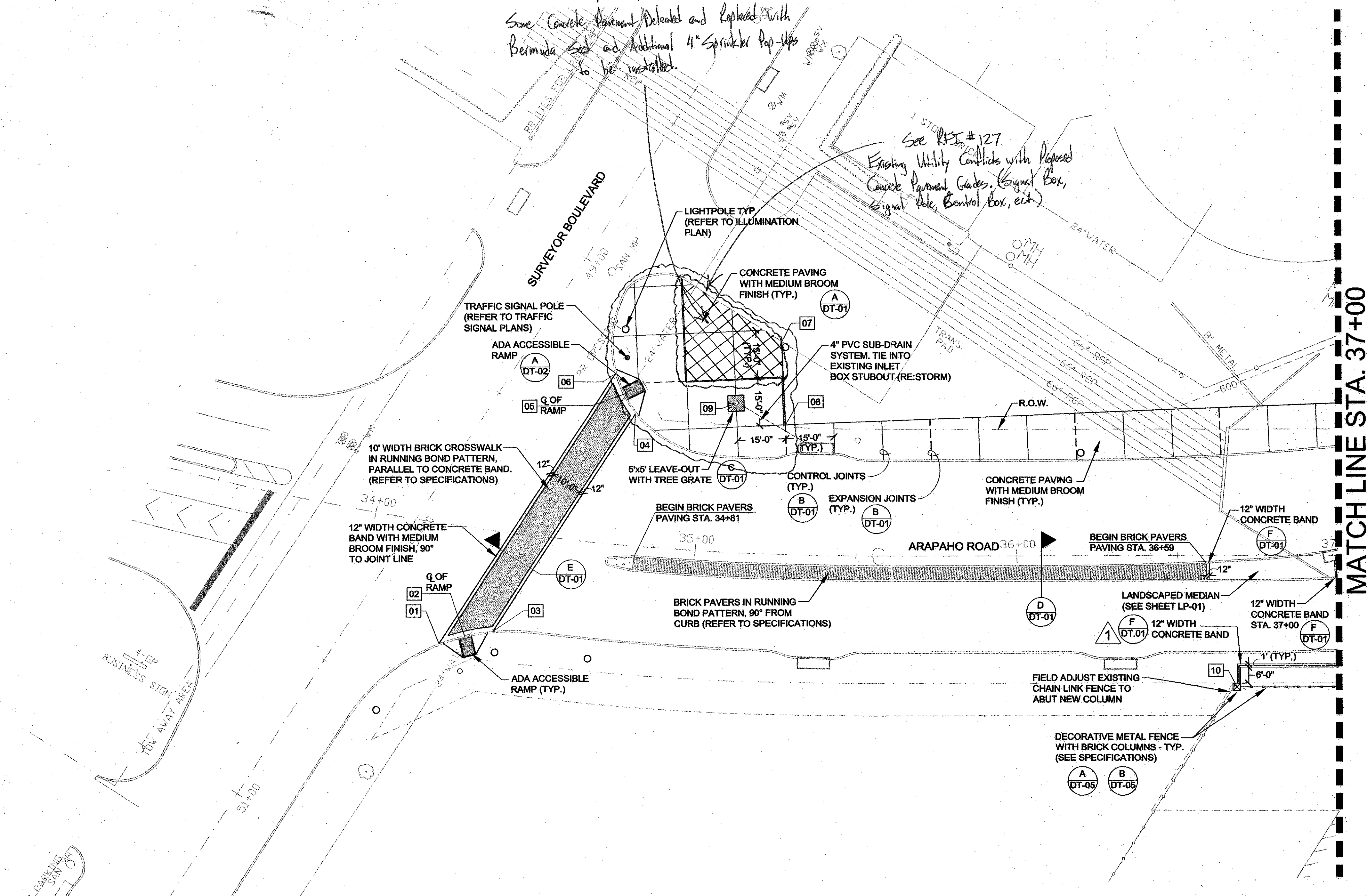
LOCATION MAP
 NOT TO SCALE





See HNTB Letter
 "Sitework @ NE Corner of Arapaho/Surveyor Blvd"
 Dated 11/3/05
 Some Concrete Pavement Deleted and Replaced with
 Bermuda Sod and Additional 4" Sprinkler Pop-Ups
 to be installed.

See RFI #127
 Existing Utility Conflicts with Proposed
 Concrete Pavement Grades, Signal Box,
 Signal Pole, Control Box, etc.



MATCH LINE STA. 37+00

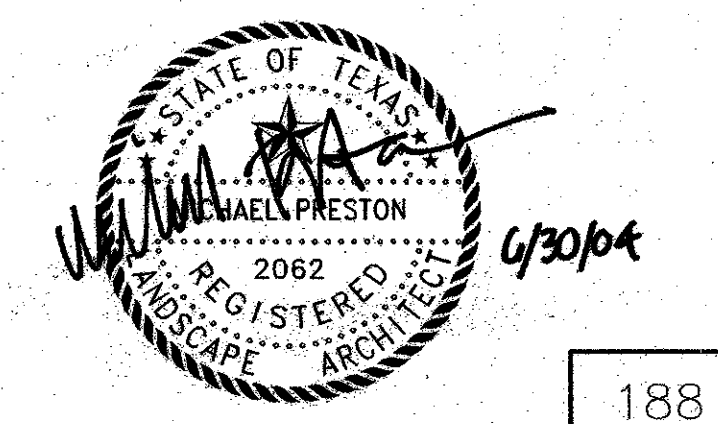
- GENERAL NOTES:**
- 1.) WRITTEN DIMENSIONS AND COORDINATE DATA SHALL GOVERN OVER SCALED DIMENSIONS.
 - 2.) SEE THE SURVEY CONTROL PLAN SHEETS WITHIN THIS SET FOR COORDINATE CONTROL POINT INFORMATION.
 - 3.) ALL IMPROVEMENTS SHALL BE STAKED IN THE FIELD BY THE CONTRACTOR AND APPROVED BY THE LANDSCAPE ARCHITECT AND OWNER'S REP. PRIOR TO CONSTRUCTION OR INSTALLATION.
 - 4.) THE CONTRACTOR SHALL VERIFY ALL EASEMENT LINES IN THE FIELD PRIOR TO BEGINNING WORK.
 - 5.) CONTRACTOR SHALL VERIFY ALL UTILITIES SHOWN ON THESE PLANS AS WELL AS ANY OTHERS IN FIELD PRIOR TO START OF CONSTRUCTION.
 - 6.) ALL CONSTRUCTION WILL CONFORM TO THE TOWN OF ADDISON STANDARDS AND SPECIFICATIONS, AS WELL AS, ANY GOVERNING TxDOT OR RAILROAD STANDARDS AND SPECIFICATIONS RELATED TO THIS PROJECT.
 - 7.) ALL DIMENSIONS ARE TO BACK OF CURB OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
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 - 11.) ALL LAND FORMS, SWALES, AND GRADES SHALL BE FINISHED TO BE A SMOOTH, FLOWING, ROUNDED SURFACE PROVIDING POSITIVE DRAINAGE AND VISUAL LANDFORM CONTINUITY.
 - 12.) GRADING FOR THE IMPROVEMENTS SHALL OCCUR AS DIRECTED BY LANDSCAPE ARCHITECT WITH THE FOLLOWING GUIDELINES:
 - ALL WALKS SHALL HAVE A CROSS SLOPE OF 2% IN THE DIRECTION OF THE DOWNHILL SIDE.
 - THE LONGITUDINAL SLOPE OF THE WALKS SHALL NOT EXCEED 5%.
 - 13.) NO EARTHEN SLOPES SHALL BE GREATER THAN 3:1.

LAYOUT COORDINATE TABLE

01	N 9754.31 E 6727.71	06	N 9855.60 E 6727.71
02	N 9760.39 E 6733.44	07	N 9892.03 E 6765.84
03	N 9766.68 E 6739.71	08	N 9870.74 E 6780.74
04	N 9848.43 E 6739.71	09	N 9868.18 E 6764.17
05	N 9851.91 E 6733.51	10	N 9877.98 E 6943.22

LEGEND:

- BRICK PAVERS IN RUNNING BOND PATTERN (SEE SPECIFICATIONS)
- EXPANSION JOINTS
- CONTROL JOINTS
- TREE GRATE
- 600 EXISTING CONTOURS
- DECORATIVE METAL FENCE

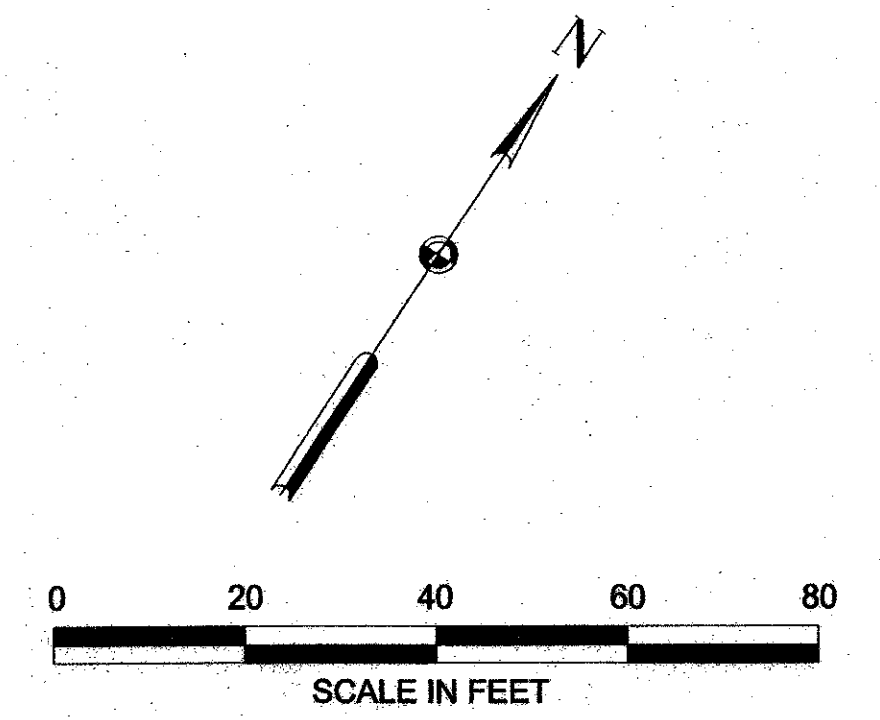


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NO.	DATE	REVISION	APPROV.
<p>HNTB ARCHITECTS ENGINEERS PLANNERS The HNTB Companies</p> <p>ARAPAH0 ROAD EXTENSION SURVEYOR BOULEVARD TO ADDISON ROAD STA 33+87.02 TO 37+00 SITESWORK LAYOUT & DIMENSIONING PLAN TOWN OF ADDISON, TEXAS</p>			
Design	DAB	Drawn	DAB
DATE	6/3/04	SCALE	VARIABLE
PROJECT NO.	25768	SHEET NO.	LA-01
Check	MP	Check	MP

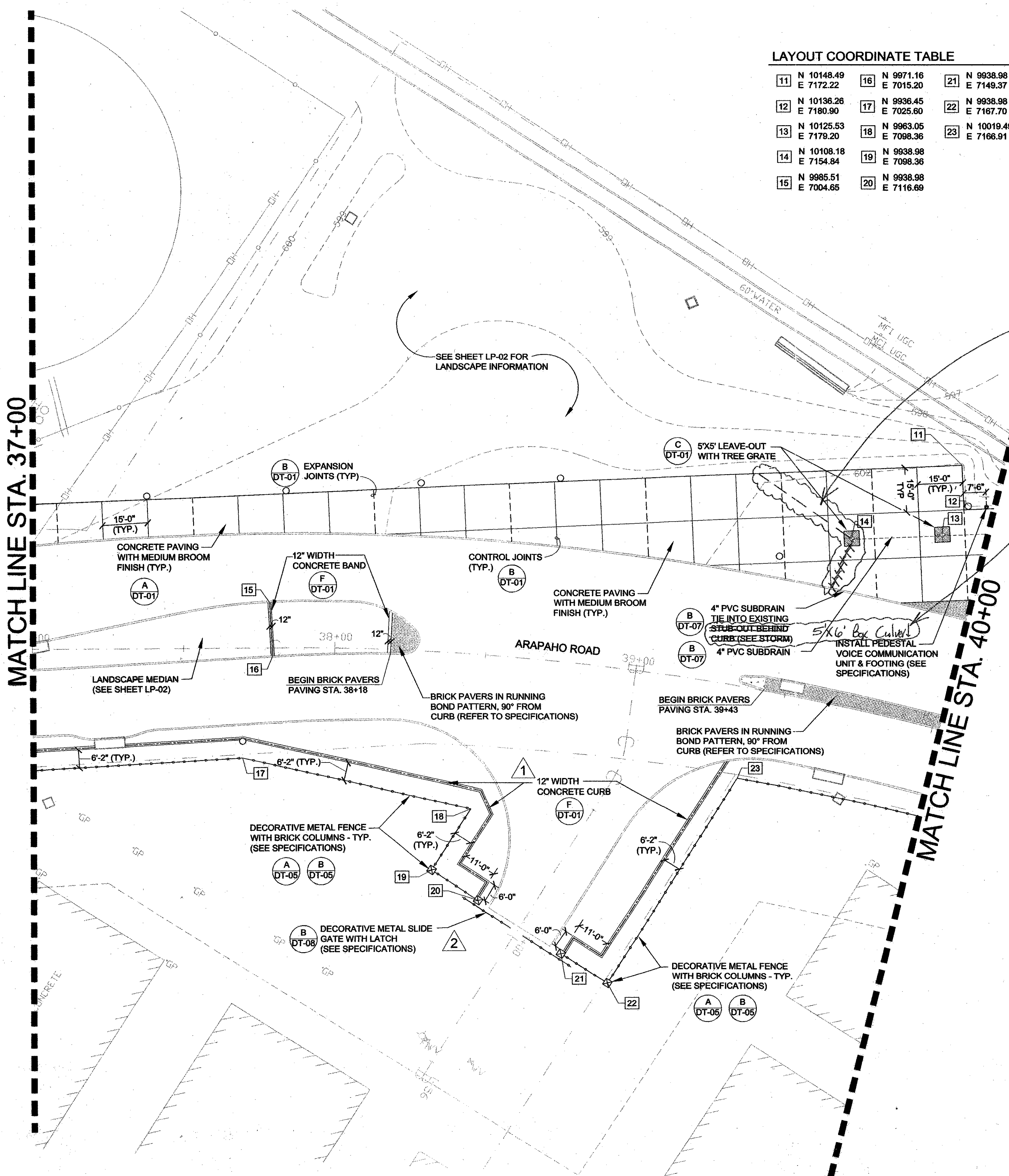
LAYOUT COORDINATE TABLE

11	N 10148.49 E 7172.22	16	N 9971.16 E 7015.20	21	N 9938.98 E 7149.37
12	N 10136.26 E 7180.90	17	N 9936.45 E 7025.60	22	N 9938.98 E 7167.70
13	N 10125.53 E 7179.20	18	N 9963.05 E 7098.36	23	N 10019.49 E 7166.91
14	N 10108.18 E 7154.84	19	N 9938.98 E 7098.36		
15	N 9985.51 E 7004.65	20	N 9938.98 E 7116.69		



MATCH LINE STA. 37+00

MATCH LINE STA. 40+00



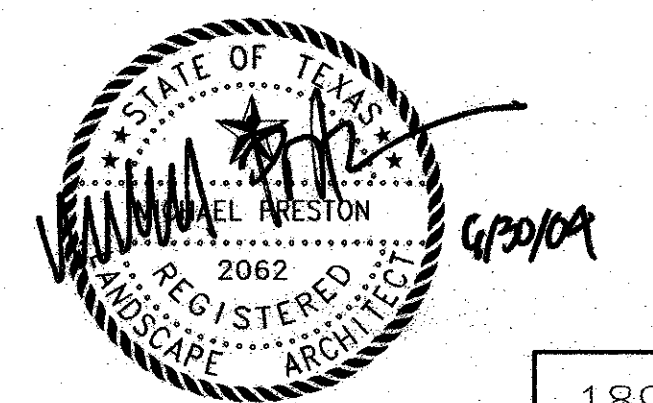
See RFI #043
Run 4" PVC Subdrain System in Trench into the 5'x6' Culvert. (Material B-2) Install 4" Pipe at Minimum of 1% Slope and connect to Box in the Upper 2' of the sidewalk.

GENERAL NOTES:

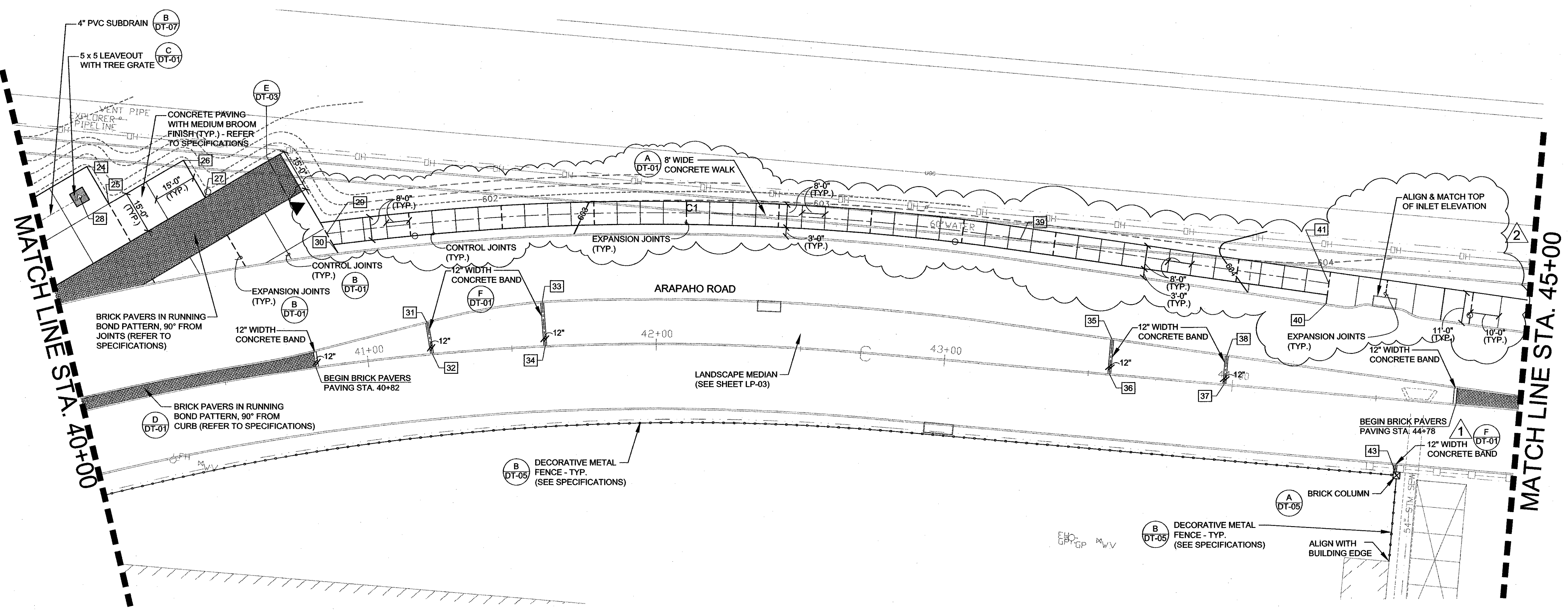
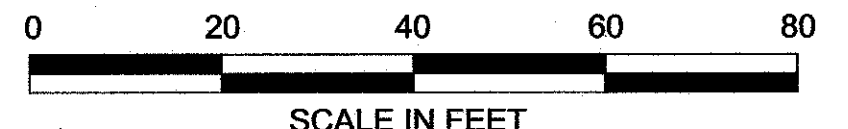
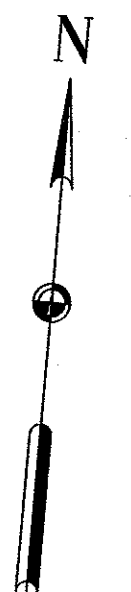
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- NO EARTHEN SLOPES SHALL BE GREATER THAN 3:1.

LEGEND:

- BRICK PAVERS IN RUNNING BOND PATTERN (SEE SPECIFICATIONS)
- EXPANSION JOINTS
- CONTROL JOINTS
- 2'x10'x18" CONCRETE BENCH
- 2'x10' CONCRETE STRIP
- TREE GRATE
- EXISTING CONTOURS
- DECORATIVE METAL FENCE



				189	
NO.	DATE	REVISION	APPROV.		
6/2/04		REPLACEMENT OF SWING GATE WITH SLIDING GATE			
5/27/04		ADDITION OF 12" CONC. CURB FOR SCREEN PLANTING			
HNTB ARCHITECTS ENGINEERS PLANNERS The HNTB Companies					
ARAPAHO ROAD EXTENSION					
SURVEYOR BOULEVARD TO ADDISON ROAD					
STA 37+00 TO 40+00					
SITWORK LAYOUT & DIMENSIONING PLAN					
TOWN OF ADDISON, TEXAS					
Design	DAB	Drawn	DAB	DATE	SCALE
Check	MP	Check	MP	6/3/04	VARIES
PROJECT NO.	25768	SHEET NO.	LA-02		



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LAYOUT COORDINATE TABLE

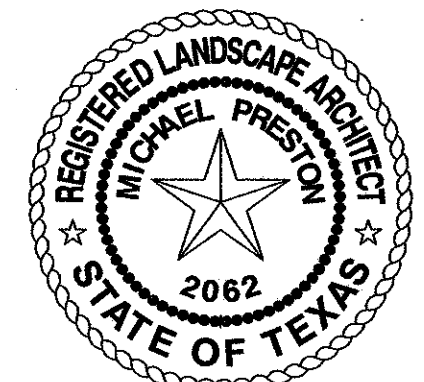
24	N 10153.62 E 7205.37	29	N 10137.75 E 7290.19	34	N 10105.83 E 7368.90	39	N 10156.78 E 7529.65
25	N 10141.39 E 7214.05	30	N 10131.54 E 7294.60	35	N 10124.89 E 7564.34	40	N 10143.85 E 7637.02
26	N 10158.75 E 7238.52	31	N 10110.18 E 7327.45	36	N 10113.12 E 7564.33	41	N 10150.84 E 7637.40
27	N 10146.51 E 7247.20	32	N 10099.79 E 7330.08	37	N 10113.10 E 7604.33		
28	N 10142.90 E 7203.78	33	N 10120.55 E 7366.54	38	N 10122.76 E 7604.33		

CONCRETE WALK CENTERLINE CURVE DATA

CURVE	DELTA	RADIUS	ARC	TANGENT	BEARING	CHORD
C1	15°24'56"	895.50'	240.94'	121.20'	N 85°27'27" E	240.21'

LEGEND:

- BRICK PAVERS IN RUNNING BOND PATTERN (SEE SPECIFICATIONS)
- EXPANSION JOINTS
- CONTROL JOINTS
- TREE GRATE
- EXISTING CONTOURS
- PROPOSED CONTOURS
- DECORATIVE METAL FENCE



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NO.	DATE	REVISION	APPROV.
2	2/4/05	REVISED PATH LAYOUT AND GRADING	
1	5/27/04	ADDITION OF 12" CONC. CURB FOR SCREEN PLANTING	

HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB Companies

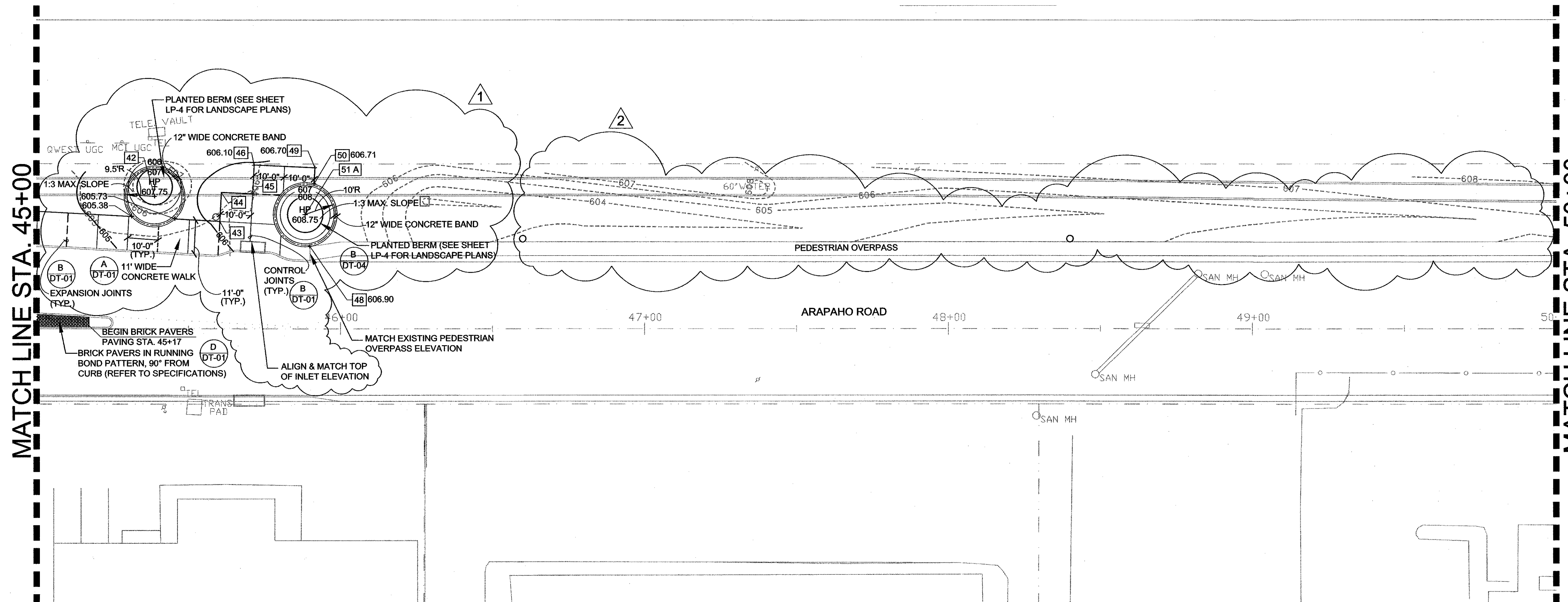
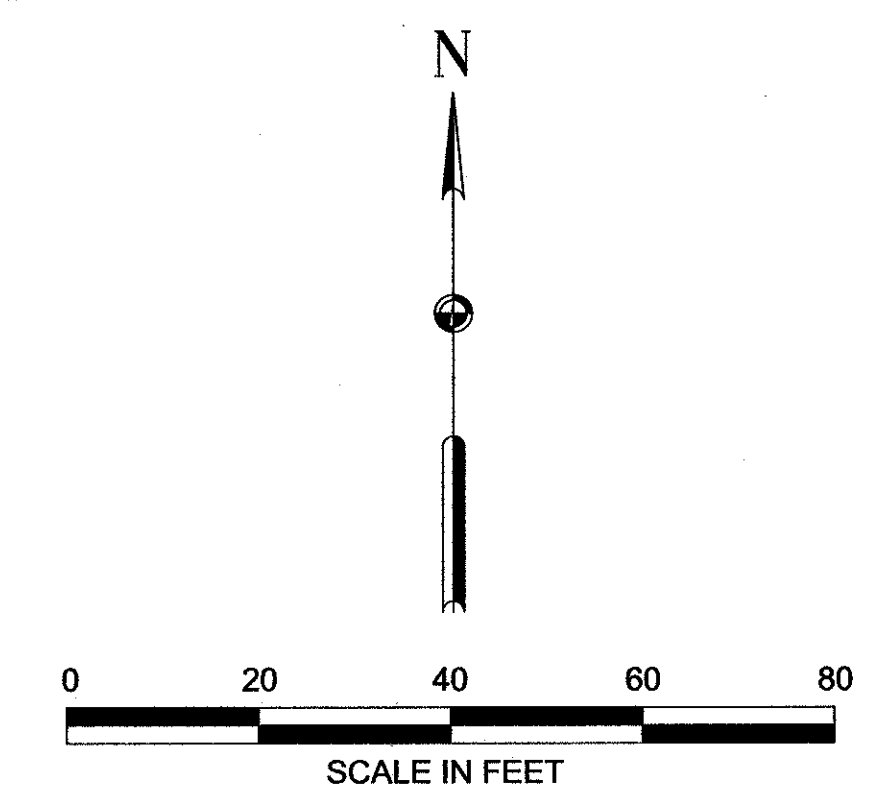
ARAPAHO ROAD EXTENSION

SURVEYOR BOULEVARD TO ADDISON ROAD

SITWORK STA 40+00 TO 45+00
LAYOUT & DIMENSIONING
PLAN

TOWN OF ADDISON, TEXAS

Design	Drawn	DATE	SCALE	PROJECT NO.	SHEET NO.
DAB	DAB	2/4/05	VARIES	25768	LA-03



- GENERAL NOTES:**
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 - 13.) NO EARTHEN SLOPES SHALL BE GREATER THAN 3:1.

MATCH LINE STA. 45+00

MATCH LINE STA. 50+00

LAYOUT COORDINATE TABLE

42	N 10155.88 E 7745.93	45	N 10156.72 E 7778.23	48	N 10139.54 E 7797.07	51A	N 10149.92 E 7795.52
43	N 10147.69 E 7767.43	46	N 10166.21 E 7778.75	49	N 10165.28 E 7798.73		
44	N 10157.20 E 7767.95			50	N 10160.00 E 7798.44		

LEGEND:

	BRICK PAVERS IN RUNNING BOND PATTERN (SEE SPECIFICATIONS)
	EXPANSION JOINTS
	CONTROL JOINTS
	EXISTING CONTOURS
	PROPOSED CONTOURS



NO.		DATE	REVISION	APPROV.
2	2/4/05		REMOVED PLANTED BEDS	
1	2/4/05		REVISED PATH LAYOUT AND GRADING	

191

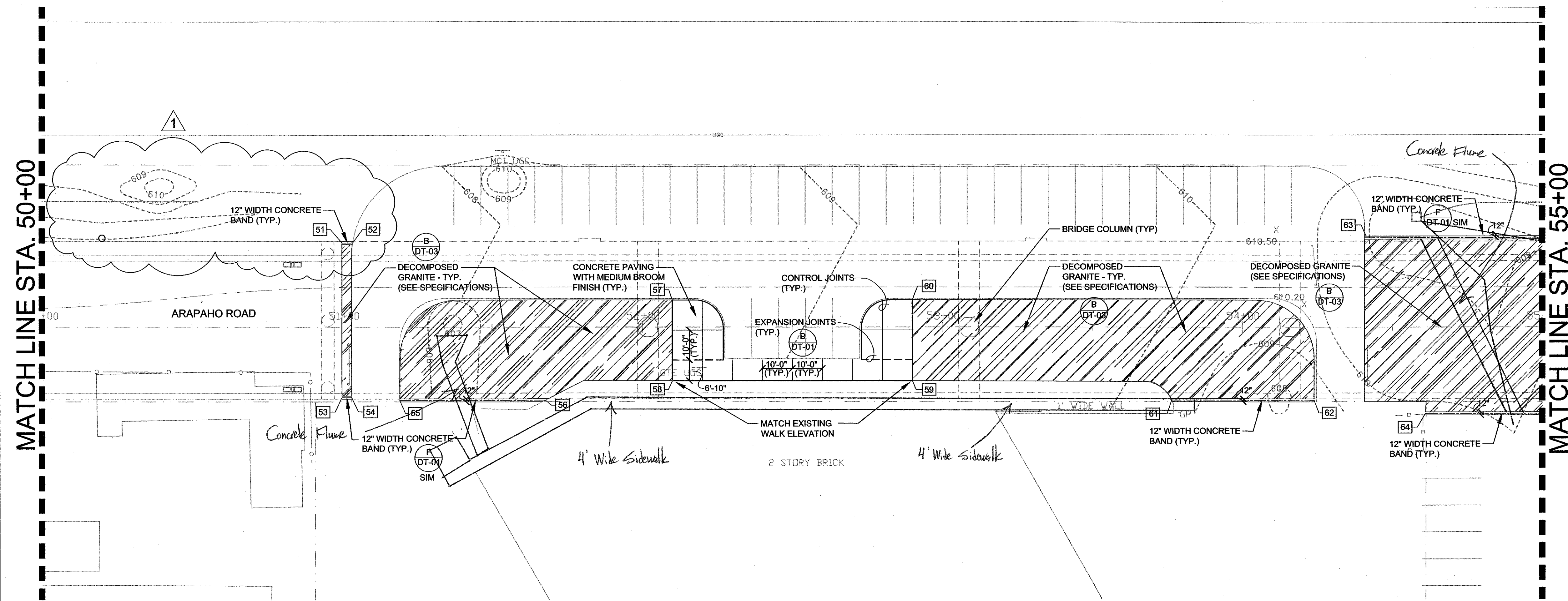
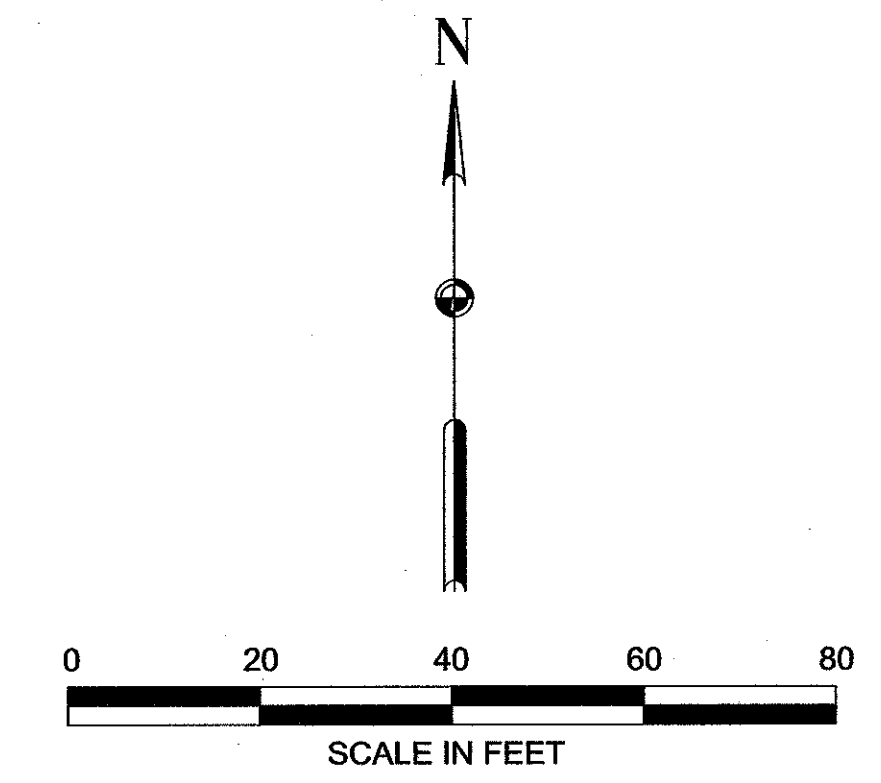
HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB Companies

ARAPAHO ROAD EXTENSION
SURVEYOR BOULEVARD TO ADDISON ROAD

STA 45+00 TO 50+00
SITework LAYOUT & DIMENSIONING
PLAN

TOWN OF ADDISON, TEXAS

Design	DAB	Drawn	DAB	DATE	SCALE	PROJECT NO.	SHEET NO.
Check	MP	Check	MP	2/4/05	VARIES	25768	LA-04



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MATCH LINE STA. 50+00

MATCH LINE STA. 55+00

LAYOUT COORDINATE TABLE

51	N 10140.36 E 8307.07	56	N 10087.90 E 8374.77	61	N 10087.88 E 8683.51
52	N 10140.36 E 8310.63	57	N 10121.25 E 8417.13	62	N 10087.81 E 8630.98
53	N 10088.86 E 8307.05	58	N 10094.48 E 8417.13	63	N 10142.43 E 8648.34
54	N 10088.86 E 8310.28	59	N 10094.42 E 8497.13	64	N 10083.33 E 8668.09
55	N 10087.92 E 8326.31	60	N 10121.31 E 8497.13		

LEGEND:

- DECOMPOSED GRANITE (SEE SPECIFICATIONS)
- EXPANSION JOINTS
- CONTROL JOINTS
- EXISTING CONTOURS



192

NO.	DATE	REVISION	APPROV.
1	2/4/05	REMOVED PLANTER BEDS	

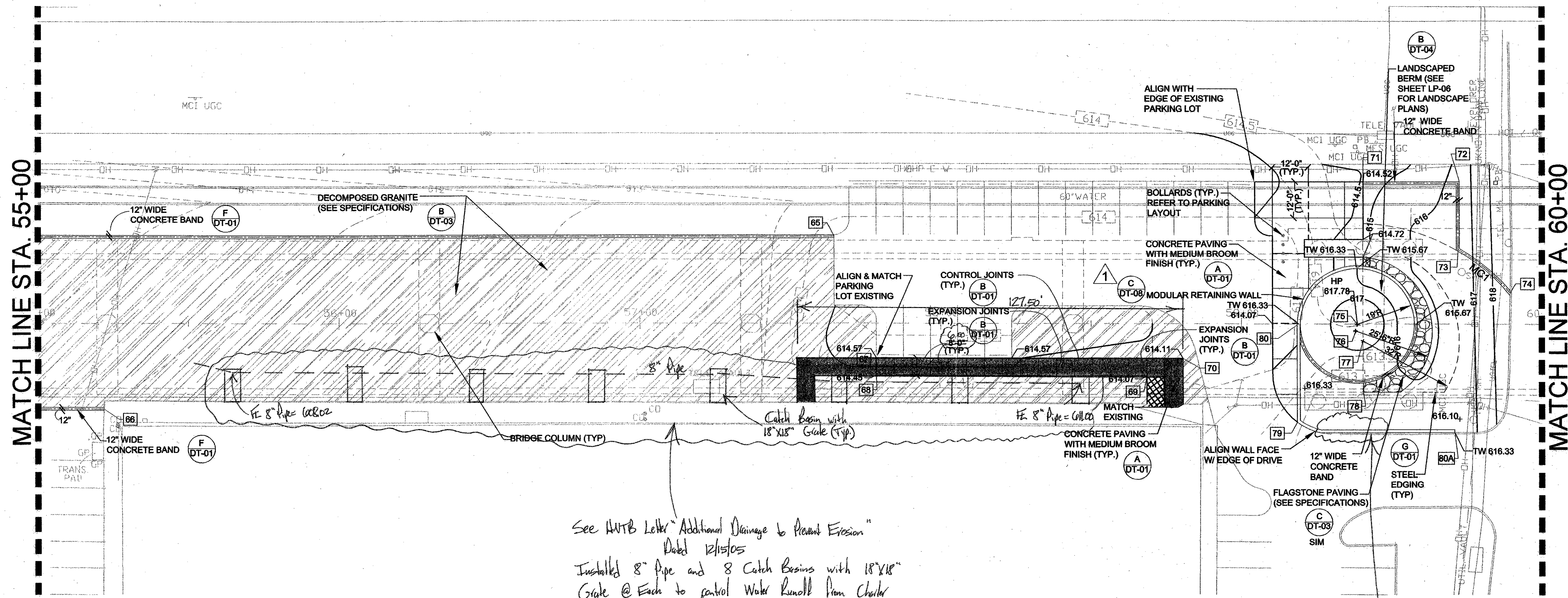
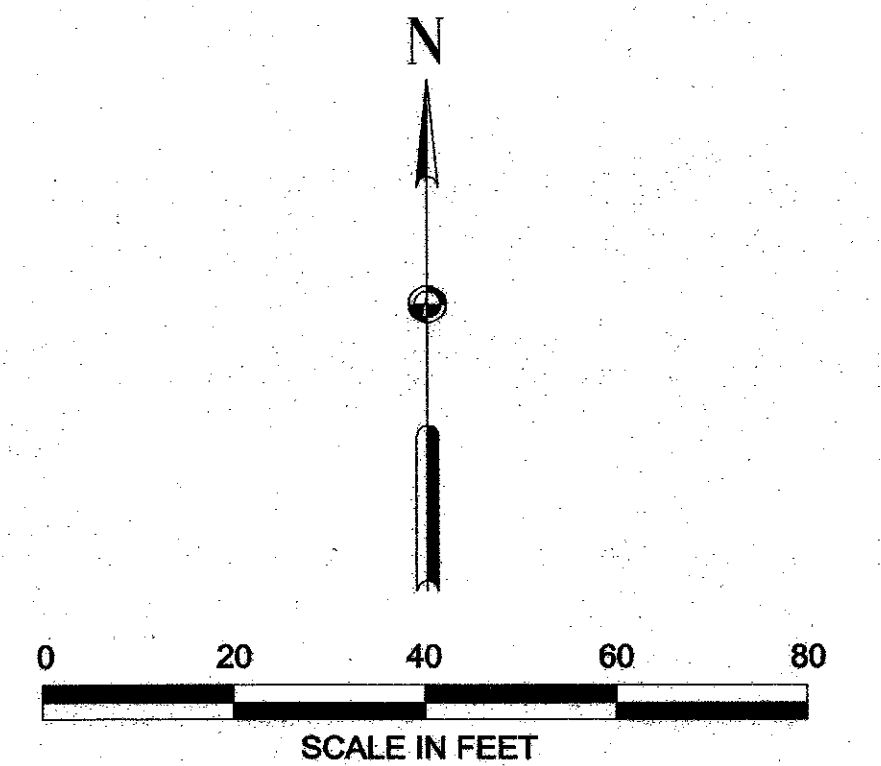
HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB Companies

ARAPAHO ROAD EXTENSION
SURVEYOR BOULEVARD TO ADDISON ROAD

STA 50+00 TO 55+00
SITWORK LAYOUT & DIMENSIONING
PLAN

TOWN OF ADDISON, TEXAS

Design	Drawn	DATE	SCALE	PROJECT NO.	SHEET NO.
DAB	DAB	2/4/05	VARIES	25768	LA-05



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See HNTB Letter "Additional Drainage to Prevent Erosion" Dated 12/15/05
 Installed 8" Pipe and 8 Catch Basins with 18"x18" Grate @ Each to control Water Runoff from Charter Furniture Building Roof.

See RFI # 129
 Modular Wall shall be built around Inlet A-5B. The 200 wide level pad will be reduced to 150' to place Black Blush with North Side of Inlet.

LAYOUT COORDINATE TABLE

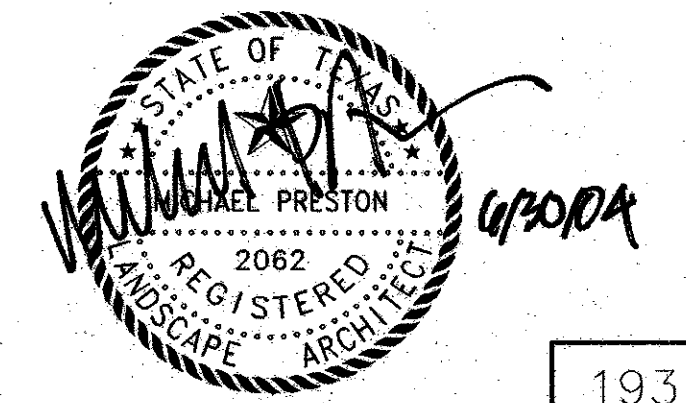
65	N 10141.93 E 8971.64	70	N 10100.37 E 9087.63	75	N 10112.06 E 9145.67	80	N 10111.82 E 9125.67
66	N 10083.33 E 8728.90	71	N 10159.86 E 9147.65	76	N 10109.74 E 9145.13	80A	N 10075.62 E 9178.00
67	N 10100.40 E 8985.63	72	N 10159.86 E 9179.17	77	N 10106.28 E 9147.55		
68	N 10024.40 E 8985.62	73	N 10137.70 E 9179.17	78	N 10089.08 E 9147.65		
69	N 10094.37 E 9075.62	74	N 10122.81 E 9196.44	79	N 10079.03 E 9125.67		

CONTAINER / MOW CURB CENTERLINE CURVE DATA

CURVE	DELTA	RADIUS	ARC	TANGENT	BEARING	CHORD
MC1	20°02'43"	65.50'	22.92'	11.58'	N 49°13'01" W	22.80'

LEGEND:

- DECOMPOSED GRANITE (SEE SPECIFICATIONS)
- STONE PAVING (SEE SPECIFICATIONS)
- EXPANSION JOINTS
- CONTROL JOINTS
- EXISTING CONTOURS
- PROPOSED CONTOURS



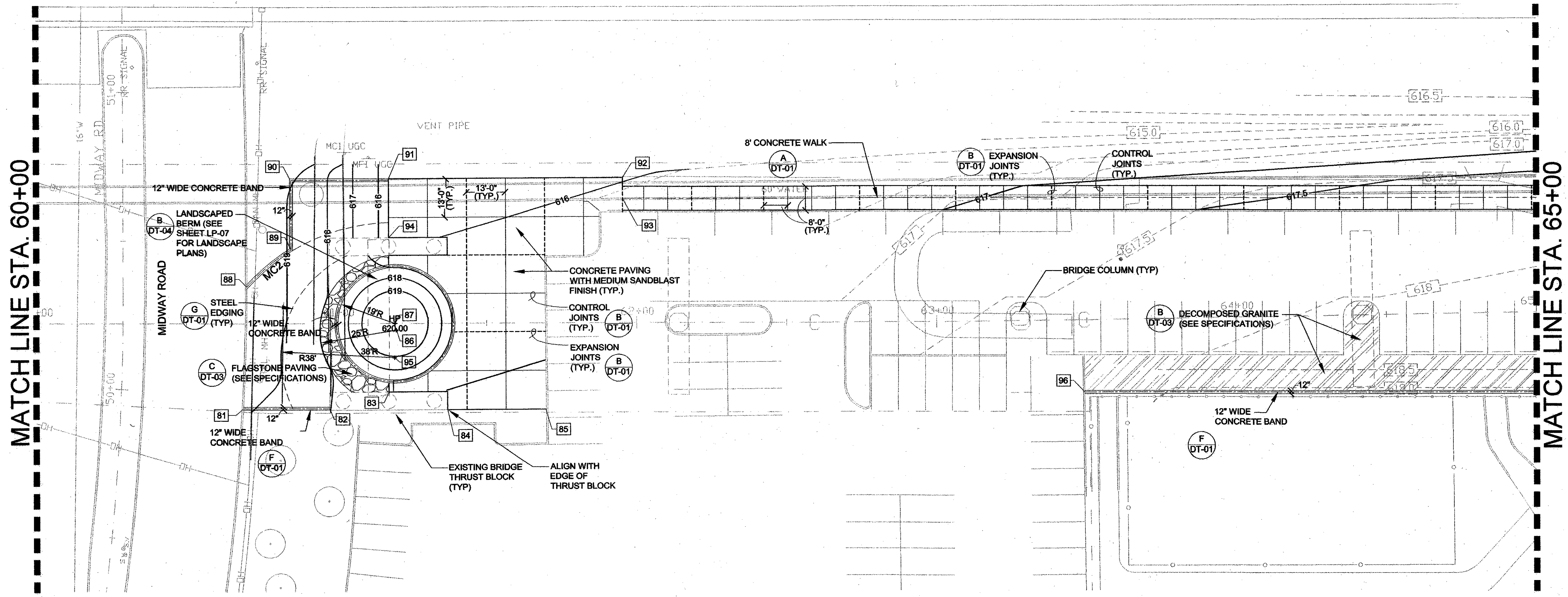
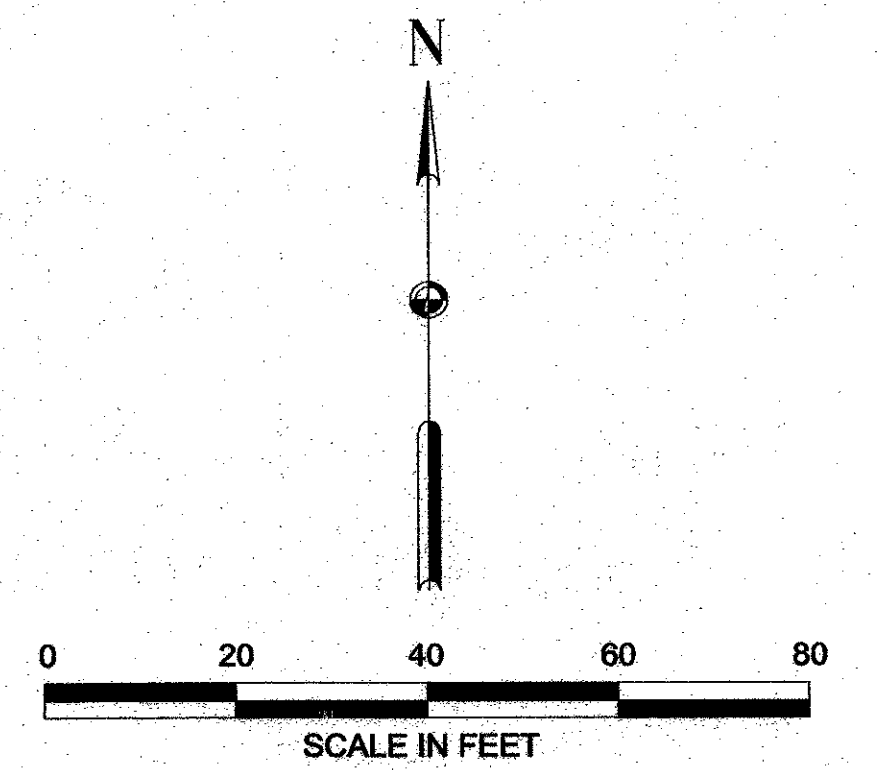
NO.		DATE	REVISION	APPROV.
A		5/27/04	ADDITION OF MODULAR RETAINING WALL	

193

HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB Companies

ARAPAHO ROAD EXTENSION
SURVEYOR BOULEVARD TO ADDISON ROAD
STA 55+00 TO 60+00
SITWORK LAYOUT & DIMENSIONING PLAN
TOWN OF ADDISON, TEXAS

Design DAB	Drawn DAB	DATE	SCALE	PROJECT NO.	SHEET NO.
Check MP	Check MP	6/3/04	VARIES	25768	LA-06



- GENERAL NOTES:**
- 1.) WRITTEN DIMENSIONS AND COORDINATE DATA SHALL GOVERN OVER SCALED DIMENSIONS.
 - 2.) SEE THE SURVEY CONTROL PLAN SHEETS WITHIN THIS SET FOR COORDINATE CONTROL POINT INFORMATION.
 - 3.) ALL IMPROVEMENTS SHALL BE STAKED IN THE FIELD BY THE CONTRACTOR AND APPROVED BY THE LANDSCAPE ARCHITECT AND OWNER'S REP. PRIOR TO CONSTRUCTION OR INSTALLATION.
 - 4.) THE CONTRACTOR SHALL VERIFY ALL EASEMENT LINES IN THE FIELD PRIOR TO BEGINNING WORK.
 - 5.) CONTRACTOR SHALL VERIFY ALL UTILITIES SHOWN ON THESE PLANS AS WELL AS ANY OTHERS IN FIELD PRIOR TO START OF CONSTRUCTION.
 - 6.) ALL CONSTRUCTION WILL CONFORM TO THE TOWN OF ADDISON STANDARDS AND SPECIFICATIONS, AS WELL AS, ANY GOVERNING TXDOT OR RAILROAD STANDARDS AND SPECIFICATIONS RELATED TO THIS PROJECT.
 - 7.) ALL DIMENSIONS ARE TO BACK OF CURB OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
 - 8.) REINFORCEMENT SHOULD BE CONTINUOUS THROUGH CONTROL JOINTS.
 - 9.) THE CONTRACTOR WILL COORDINATE INSTALLATION OF ALL SIGNS, PAVEMENT MARKINGS AND OTHER TRAFFIC CONTROL DEVICES BY THE CITY DURING CONSTRUCTION
 - 10.) ALL PROPOSED GRADES INDICATED ARE FINISHED GRADES.
 - 11.) ALL LAND FORMS, SWALES, AND GRADES SHALL BE FINISHED TO BE A SMOOTH, FLOWING, ROUNDED SURFACE PROVIDING POSITIVE DRAINAGE AND VISUAL LANDFORM CONTINUITY.
 - 12.) GRADING FOR THE IMPROVEMENTS SHALL OCCUR AS DIRECTED BY LANDSCAPE ARCHITECT WITH THE FOLLOWING GUIDELINES:
 - ALL WALKS SHALL HAVE A CROSS SLOPE OF 2% IN THE DIRECTION OF THE DOWNHILL SIDE.
 - THE LONGITUDINAL SLOPE OF THE WALKS SHALL NOT EXCEED 5%.
 - 13.) NO EARTHEN SLOPES SHALL BE GREATER THAN 3:1.

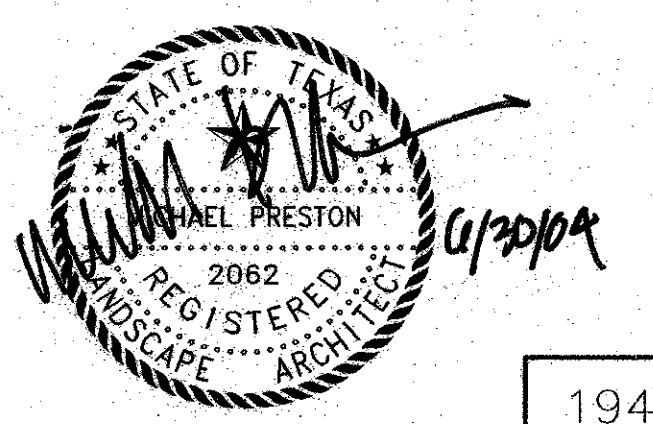
LAYOUT COORDINATE TABLE

81	N 10083.58 E 9276.00	86	N 10109.76 E 9327.01	91	N 10160.58 E 9324.45	96	N 10088.51 E 9556.33
82	N 10083.58 E 9304.71	87	N 10112.06 E 9326.52	92	N 10161.08 E 9402.45		
83	N 10089.08 E 9324.45	88	N 10124.59 E 9277.23	93	N 10154.01 E 9402.45		
84	N 10083.08 E 9344.02	89	N 10137.10 E 9291.99	94	N 10141.08 E 9324.45		
85	N 10083.08 E 9376.65	90	N 10160.59 E 9282.00	95	N 10100.54 E 9326.49		

CONTAINER / MOW CURB CENTERLINE CURVE DATA

CURVE	DELTA	RADIUS	ARC	TANGENT	BEARING	CHORD
MC2	16°59'25"	65.50'	19.42'	9.78'	S 49°43'51" W	19.35'

- LEGEND:**
- DECOMPOSED GRANITE (SEE SPECIFICATIONS)
 - STONE PAVING (SEE SPECIFICATIONS)
 - EXPANSION JOINTS
 - CONTROL JOINTS
 - EXISTING CONTOURS
 - PROPOSED CONTOURS



NO.	DATE	REVISION	APPROV.

194

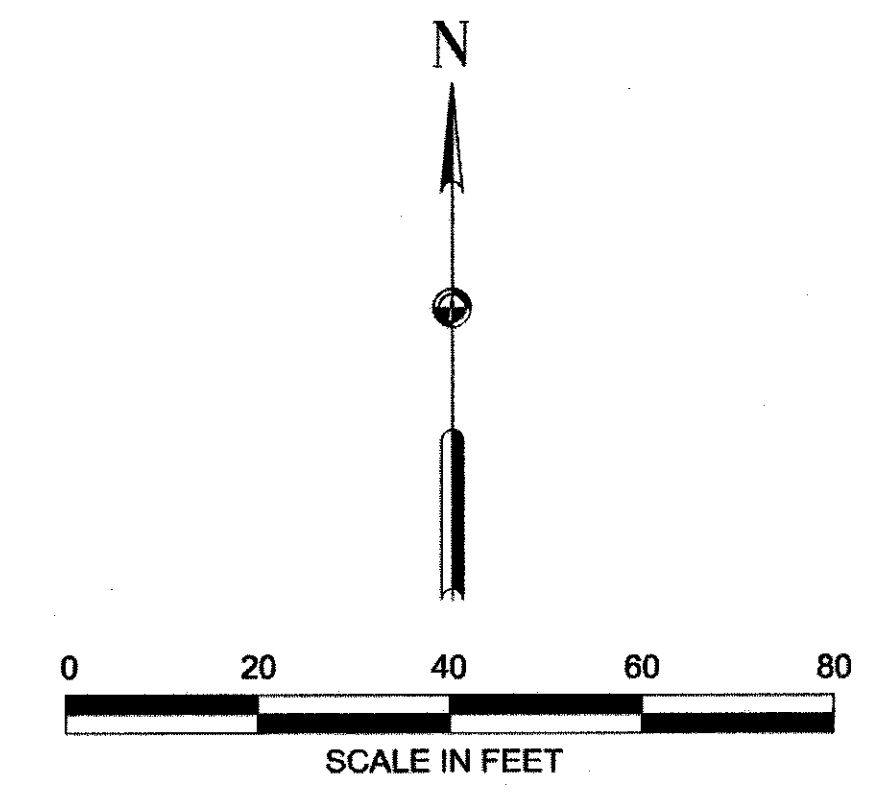
HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB Companies

ARAPAHO ROAD EXTENSION
SURVEYOR BOULEVARD TO ADDISON ROAD

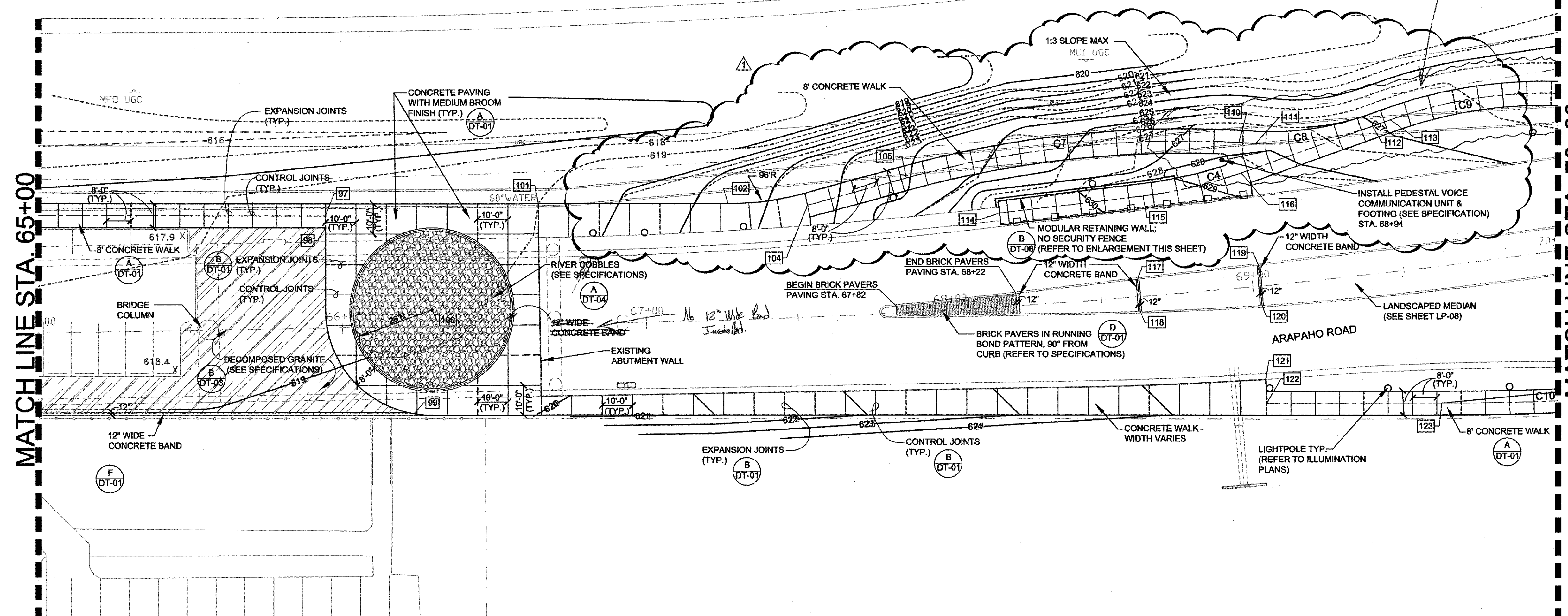
STA 60+00 TO 65+00
SITework LAYOUT & DIMENSIONING
PLAN

TOWN OF ADDISON, TEXAS

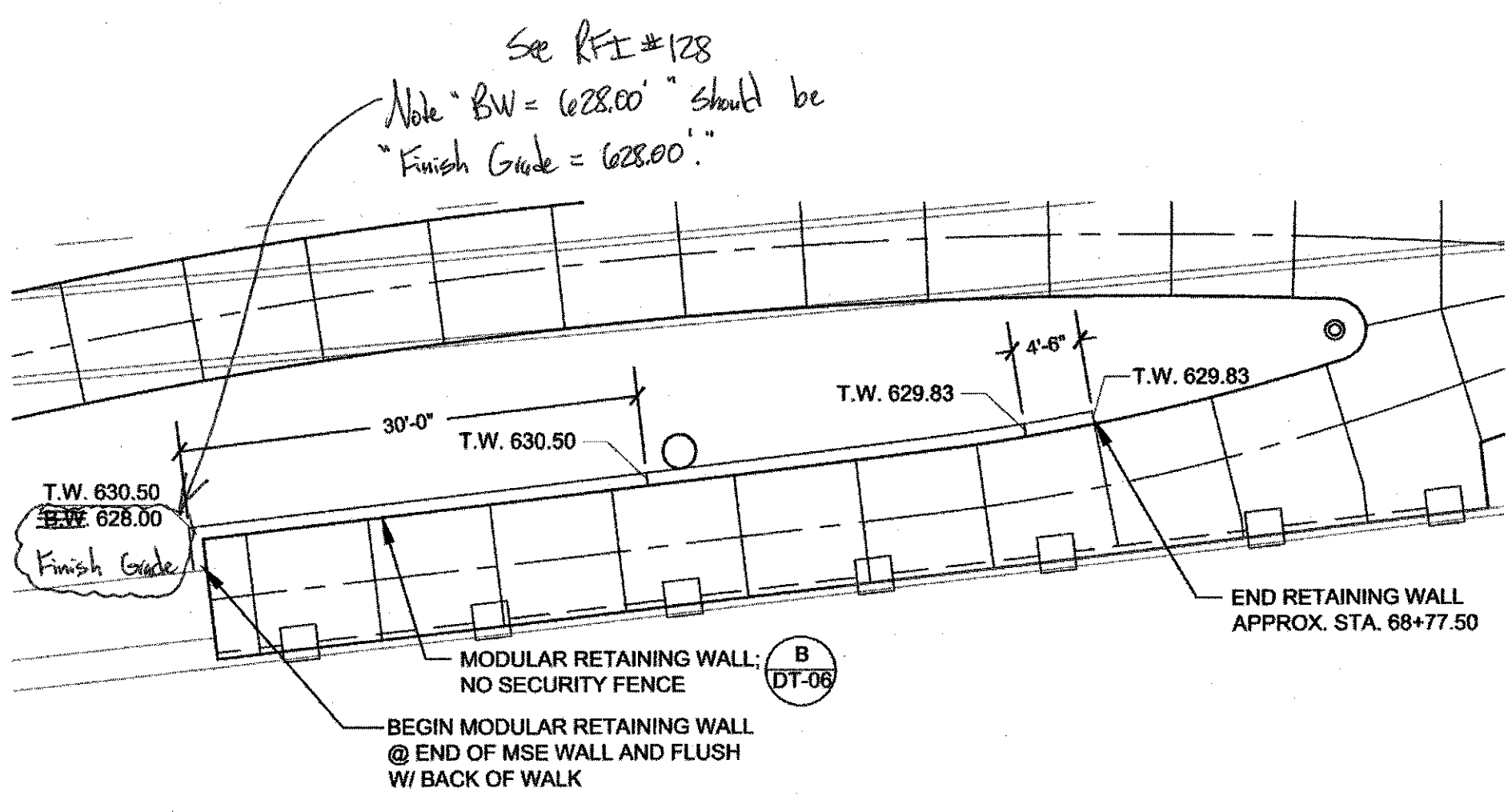
Design	DAB	Drawn	DAB	DATE	SCALE	PROJECT NO.	SHEET NO.
Check	MP	Check	MP	6/3/04	VARIABLES	25768	LA-07



See RFI #088
North Sidewalk Grade Control between
STA 6850 and STA 8100.



- GENERAL NOTES:**
- 1.) WRITTEN DIMENSIONS AND COORDINATE DATA SHALL GOVERN OVER SCALED DIMENSIONS.
 - 2.) SEE THE SURVEY CONTROL PLAN SHEETS WITHIN THIS SET FOR COORDINATE CONTROL POINT INFORMATION.
 - 3.) ALL IMPROVEMENTS SHALL BE STAKED IN THE FIELD BY THE CONTRACTOR AND APPROVED BY THE LANDSCAPE ARCHITECT AND OWNER'S REP. PRIOR TO CONSTRUCTION OR INSTALLATION.
 - 4.) THE CONTRACTOR SHALL VERIFY ALL EASEMENT LINES IN THE FIELD PRIOR TO BEGINNING WORK.
 - 5.) CONTRACTOR SHALL VERIFY ALL UTILITIES SHOWN ON THESE PLANS AS WELL AS ANY OTHERS IN FIELD PRIOR TO START OF CONSTRUCTION.
 - 6.) ALL CONSTRUCTION WILL CONFORM TO THE TOWN OF ADDISON STANDARDS AND SPECIFICATIONS, AS WELL AS, ANY GOVERNING TxDOT OR RAILROAD STANDARDS AND SPECIFICATIONS RELATED TO THIS PROJECT.
 - 7.) ALL DIMENSIONS ARE TO BACK OF CURB OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
 - 8.) REINFORCEMENT SHOULD BE CONTINUOUS THROUGH CONTROL JOINTS.
 - 9.) THE CONTRACTOR WILL COORDINATE INSTALLATION OF ALL SIGNS, PAVEMENT MARKINGS AND OTHER TRAFFIC CONTROL DEVICES BY THE CITY DURING CONSTRUCTION
 - 10.) ALL PROPOSED GRADES INDICATED ARE FINISHED GRADES.
 - 11.) ALL LAND FORMS, SWALES, AND GRADES SHALL BE FINISHED TO BE A SMOOTH, FLOWING, ROUNDED SURFACE PROVIDING POSITIVE DRAINAGE AND VISUAL LANDFORM CONTINUITY.
 - 12.) GRADING FOR THE IMPROVEMENTS SHALL OCCUR AS DIRECTED BY LANDSCAPE ARCHITECT WITH THE FOLLOWING GUIDELINES:
 - ALL WALKS SHALL HAVE A CROSS SLOPE OF 2% IN THE DIRECTION OF THE DOWNHILL SIDE.
 - THE LONGITUDINAL SLOPE OF THE WALKS SHALL NOT EXCEED 5%.
 - 13.) NO EARTHEN SLOPES SHALL BE GREATER THAN 3:1.



RETAINING WALL LAYOUT - ENLARGEMENT

SCALE: 1"=10'-0"

LAYOUT COORDINATE TABLE

97	N 10154.00 E 9801.51	102	N 10158.00 E 9933.92	107	NOT USED	112	N 10183.30 E 10145.95	117	N 10133.06 E 10068.61	122	N 10092.00 E 10111.08
98	N 10150.00 E 9801.44	103	NOT USED	108	NOT USED	113	N 10185.39 E 10151.87	118	N 10122.41 E 10069.49	123	N 10092.00 E 10168.72
99	N 10088.50 E 9830.60	104	N 10157.48 E 9960.06	109	NOT USED	114	N 10154.84 E 10023.24	119	N 10137.81 E 10108.46		
100	N 10123.00 E 9836.51	105	N 10166.283 E 9992.57	110	N 10177.997 E 10102.03	115	N 10160.46 E 10070.41	120	N 10124.44 E 10109.57		
101	N 10158.00 E 9871.51	106	NOT USED	111	N 10177.71 E 10107.48	116	N 10167.99 E 10102.87	121	N 10099.97 E 10110.81		

CONCRETE WALK CENTERLINE CURVE DATA

CURVE	DELTA	RADIUS	ARC	TANGENT	BEARING	CHORD
C4	12°40'49"	150.00'	33.20'	16.67'	S 76°51'47" W	33.13'
C7	18°5'47"	350.00'	110.54'	55.74'	S 74°50'46" W	110.09'
C8	22°25'11"	100.00'	39.13'	19.82'	S 81°43'57" W	38.88'
C9	21°42'10"	150.00'	56.82'	28.75'	S 81°22'27" W	56.48'
C10	10°56'07"	1000.00'	190.86'	95.72'	N 84°31'57" E	190.57'

LEGEND:

- DECOMPOSED GRANITE (SEE SPECIFICATIONS)
- BRICK PAVING (SEE SPECIFICATIONS)
- RIVER COBBLES (SEE SPECIFICATIONS)
- EXPANSION JOINTS
- CONTROL JOINTS
- EXISTING CONTOURS
- PROPOSED CONTOURS



195

NO.	DATE	REVISION	APPROV.
1	6/28/05	REVISED CONCRETE WALK LAYOUT & GRADING	
1	6/28/05	NEW MODULAR RETAINING WALL	

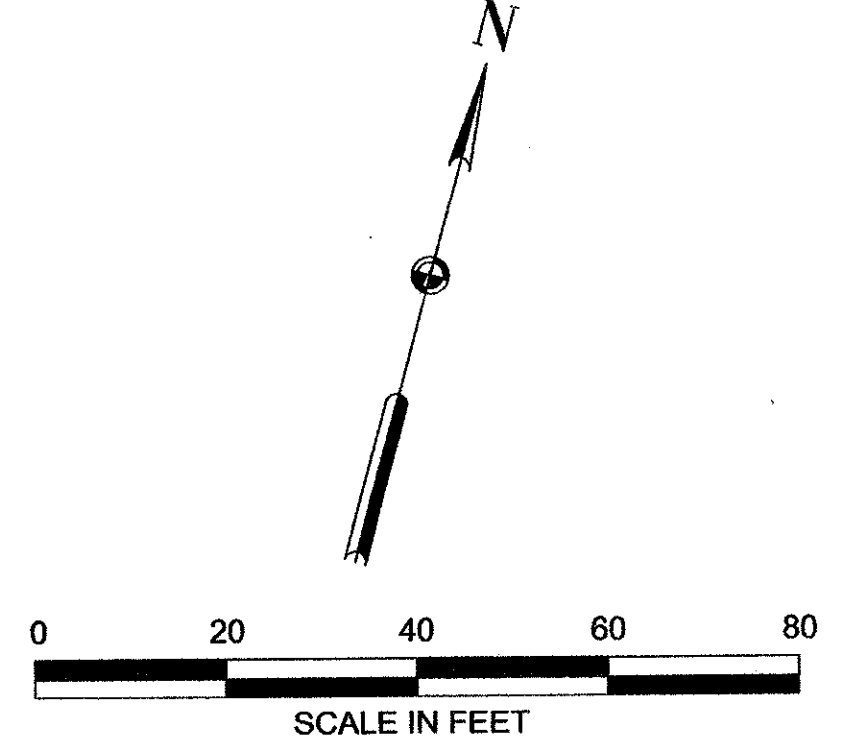
HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB Companies

ARAPAHO ROAD EXTENSION
SURVEYOR BOULEVARD TO ADDISON ROAD

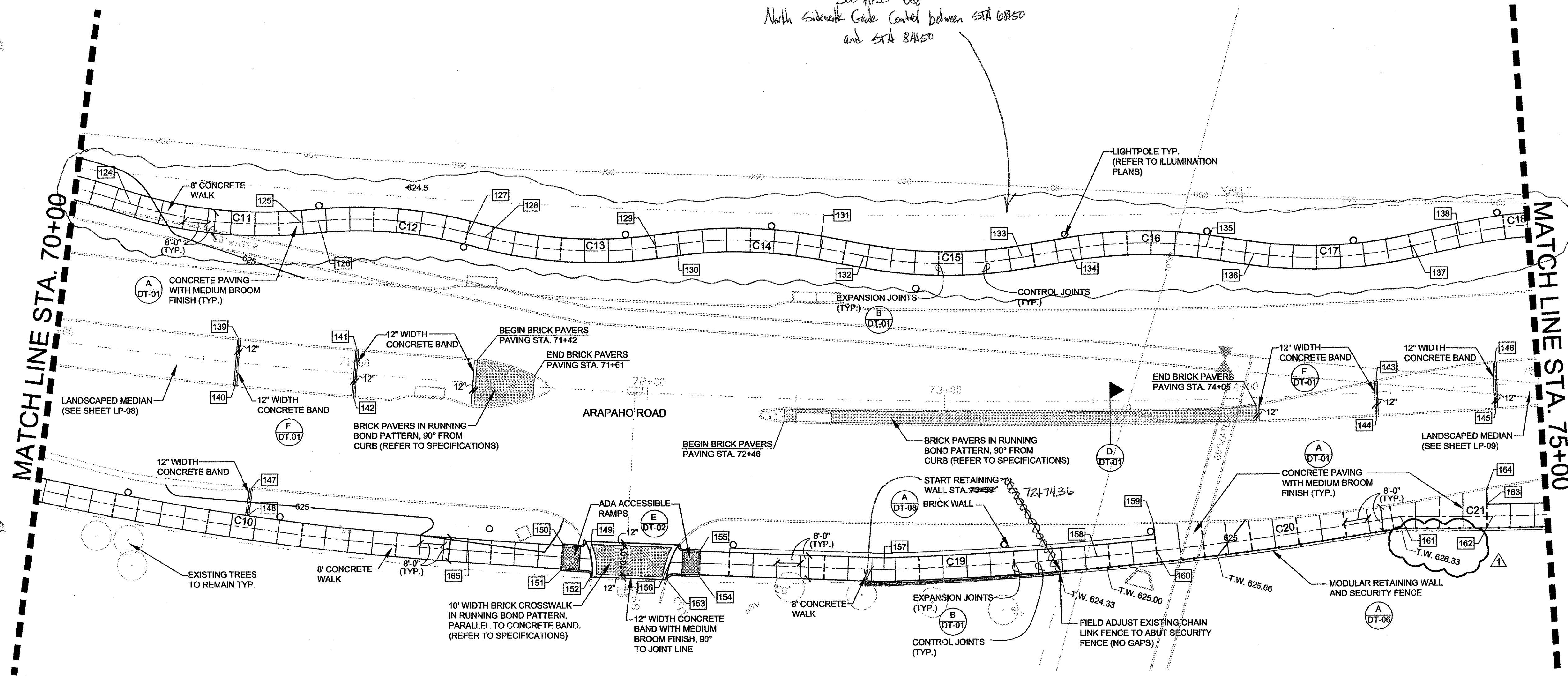
STA 65+00 TO 70+00
SITework LAYOUT & DIMENSIONING
PLAN

TOWN OF ADDISON, TEXAS

Design	DAB	Drawn	DAB	DATE	SCALE	PROJECT NO.	SHEET NO.
Check	MP	Check	MP	2/4/05	VARIES	25768	LA-08



See REF # 088
North Sidewalk Grade Control between STA 6850
and STA 8450



- GENERAL NOTES:**
- 1.) WRITTEN DIMENSIONS AND COORDINATE DATA SHALL GOVERN OVER SCALED DIMENSIONS.
 - 2.) SEE THE SURVEY CONTROL PLAN SHEETS WITHIN THIS SET FOR COORDINATE CONTROL POINT INFORMATION.
 - 3.) ALL IMPROVEMENTS SHALL BE STAKED IN THE FIELD BY THE CONTRACTOR AND APPROVED BY THE LANDSCAPE ARCHITECT AND OWNER'S REP. PRIOR TO CONSTRUCTION OR INSTALLATION.
 - 4.) THE CONTRACTOR SHALL VERIFY ALL EASEMENT LINES IN THE FIELD PRIOR TO BEGINNING WORK.
 - 5.) CONTRACTOR SHALL VERIFY ALL UTILITIES SHOWN ON THESE PLANS AS WELL AS ANY OTHERS IN FIELD PRIOR TO START OF CONSTRUCTION.
 - 6.) ALL CONSTRUCTION WILL CONFORM TO THE TOWN OF ADDISON STANDARDS AND SPECIFICATIONS, AS WELL AS, ANY GOVERNING TxDOT OR RAILROAD STANDARDS AND SPECIFICATIONS RELATED TO THIS PROJECT.
 - 7.) ALL DIMENSIONS ARE TO BACK OF CURB OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
 - 8.) REINFORCEMENT SHOULD BE CONTINUOUS THROUGH CONTROL JOINTS.
 - 9.) THE CONTRACTOR WILL COORDINATE INSTALLATION OF ALL SIGNS, PAVEMENT MARKINGS AND OTHER TRAFFIC CONTROL DEVICES BY THE CITY DURING CONSTRUCTION
 - 10.) ALL PROPOSED GRADES INDICATED ARE FINISHED GRADES.
 - 11.) ALL LAND FORMS, SWALES, AND GRADES SHALL BE FINISHED TO BE A SMOOTH, FLOWING, ROUNDED SURFACE PROVIDING POSITIVE DRAINAGE AND VISUAL LANDFORM CONTINUITY.
 - 12.) GRADING FOR THE IMPROVEMENTS SHALL OCCUR AS DIRECTED BY LANDSCAPE ARCHITECT WITH THE FOLLOWING GUIDELINES:
 - ALL WALKS SHALL HAVE A CROSS SLOPE OF 2% IN THE DIRECTION OF THE DOWNHILL SIDE.
 - THE LONGITUDINAL SLOPE OF THE WALKS SHALL NOT EXCEED 5%.
 - 13.) NO EARTHEN SLOPES SHALL BE GREATER THAN 3:1.

LAYOUT COORDINATE TABLE

124	N 10193.45 E 10218.34	129	N 10224.86 E 10392.94	134	N 10259.85 E 10527.94	139	N 10158.67 E 10265.43	144	N 10232.68 E 10642.00	149	N 10117.92 E 10398.61	154	N 10121.65 E 10435.78	159	N 10178.15 E 10578.78	164	N 10217.88 E 10684.19
125	N 10202.32 E 10275.30	130	N 10227.58 E 10399.46	135	N 10272.33 E 10571.95	140	N 10143.90 E 10268.04	145	N 10245.09 E 10680.15	150	N 10120.54 E 10388.43	155	N 10130.43 E 10433.78	160	N 10169.54 E 10582.10	165	N 10110.16 E 10358.42
126	N 10204.29 E 10280.73	131	N 10238.73 E 10446.39	136	N 10274.34 E 10588.16	141	N 10165.31 E 10304.81	146	N 10259.42 E 10675.96	151	N 10111.70 E 10400.33	156	N 10123.81 E 10424.98	161	N 10201.67 E 10658.48		
127	N 10213.27 E 10330.65	132	N 10239.81 E 10461.40	137	N 10290.22 E 10639.10	142	N 10150.53 E 10307.42	147	N 10111.73 E 10282.21	152	N 10112.16 E 10400.33	157	N 10139.80 E 10495.20	162	N 10209.66 E 10688.56		
128	N 10213.32 E 10336.45	133	N 10253.05 E 10513.09	138	N 10297.78 E 10653.59	143	N 10243.27 E 10638.91	148	N 10102.61 E 10283.26	153	N 10117.71 E 10425.48	158	N 10118.79 E 10425.48	163	N 10212.97 E 10685.55		

CONTAINER / MOW CURB CENTERLINE CURVE DATA

CURVE	DELTA	RADIUS	ARC	TANGENT	BEARING	CHORD
C10	10°56'07"	1000.00'	190.86'	95.72	N 84°31'57" E	190.57'
C11	22°09'30"	150.00'	58.01'	29.37	S 81°08'47" W	57.65'
C12	19°28'05"	150.00'	50.97'	25.73	S 79°48'05" W	50.72'
C13	22°09'30"	150.00'	58.01'	29.37	S 78°27'22" W	57.65'
C14	18°30'24"	150.00'	48.45'	24.44'	S 76°37'49" W	48.24'
C15	20°29'23"	150.00'	53.64'	27.11'	S 75°38'19" W	53.36'
C16	17°32'22"	150.00'	45.92'	23.14'	S 74°09'49" W	45.74'
C17	20°29'23"	150.00'	53.64'	27.11'	S 72°41'18" W	53.36'
C18	17°32'22"	150.00'	45.92'	23.14'	S 71°12'48" W	45.74'
C19	04°23'10"	1200.00'	91.86'	45.95	N 71°06'36" E	91.84'
C20	02°58'24"	1597.06'	82.88'	41.45'	N 67°11'07" E	82.87'
C21	08°57'19"	1266.00'	197.88'	99.14'	N 69°56'38" E	197.67'

LEGEND:

- BRICK PAVING (SEE SPECIFICATIONS)
- EXPANSION JOINTS
- CONTROL JOINTS
- EXISTING CONTOURS
- PROPOSED CONTOURS
- SECURITY FENCE



8/24/05

196

NO.	DATE	REVISION	APPROV.
1	8/26/05	REVISED TOP OF WALL ELEVATION	

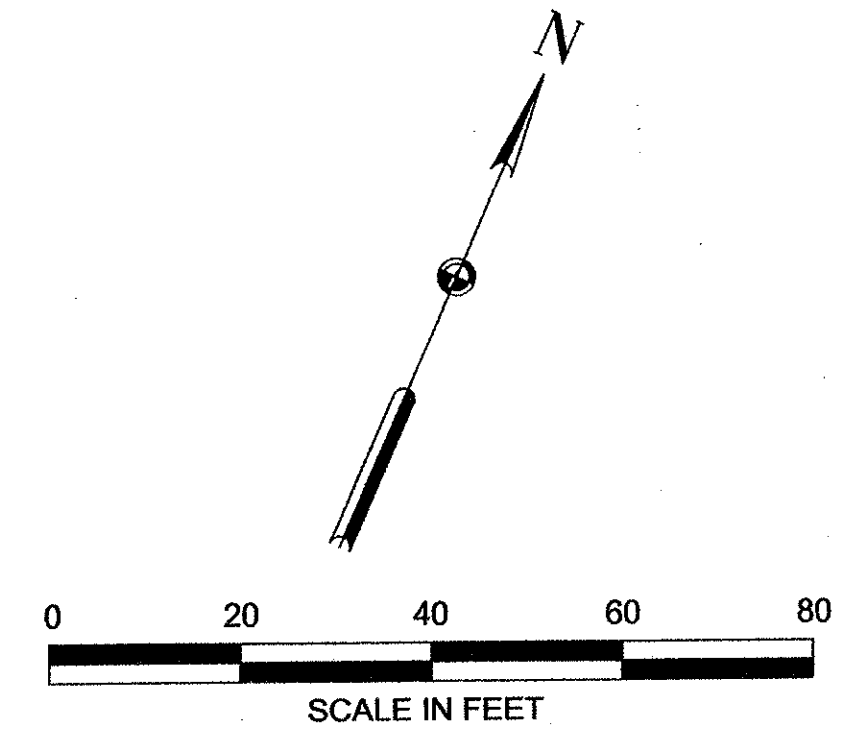
HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB Companies

ARAPAHO ROAD EXTENSION
SURVEYOR BOULEVARD TO ADDISON ROAD

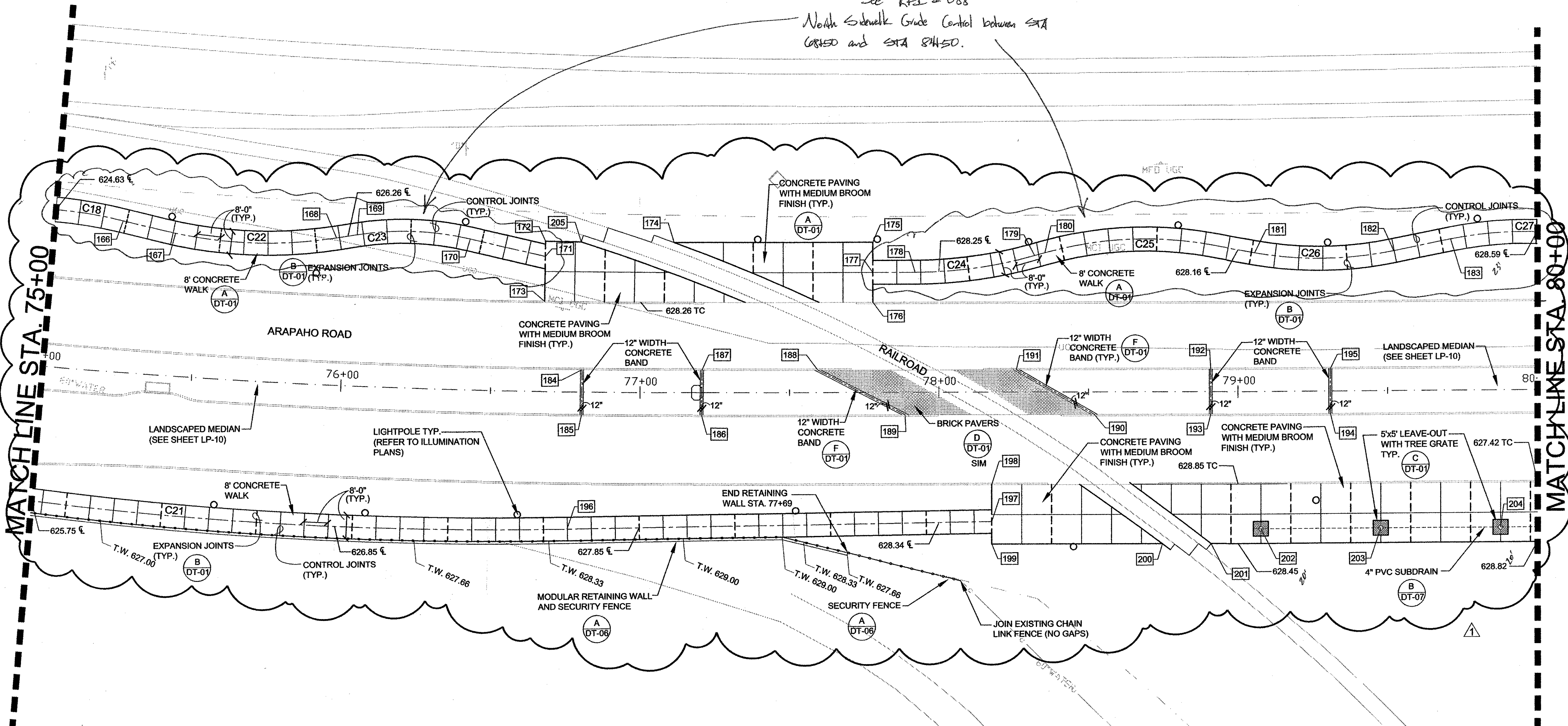
STA 70+00 TO 75+00
SITEWORK LAYOUT & DIMENSIONING PLAN

TOWN OF ADDISON, TEXAS

Design	Drawn	DATE	SCALE	PROJECT NO.	SHEET NO.
DAB	DAB	2/4/05	VARIES	25768	LA-09



See REF #088
North Sidewalk Grade Control between STA 76+50 and STA 84+50.



- GENERAL NOTES:**
- WRITTEN DIMENSIONS AND COORDINATE DATA SHALL GOVERN OVER SCALED DIMENSIONS.
 - SEE THE SURVEY CONTROL PLAN SHEETS WITHIN THIS SET FOR COORDINATE CONTROL POINT INFORMATION.
 - ALL IMPROVEMENTS SHALL BE STAKED IN THE FIELD BY THE CONTRACTOR AND APPROVED BY THE LANDSCAPE ARCHITECT AND OWNER'S REP. PRIOR TO CONSTRUCTION OR INSTALLATION.
 - THE CONTRACTOR SHALL VERIFY ALL EASEMENT LINES IN THE FIELD PRIOR TO BEGINNING WORK.
 - CONTRACTOR SHALL VERIFY ALL UTILITIES SHOWN ON THESE PLANS AS WELL AS ANY OTHERS IN FIELD PRIOR TO START OF CONSTRUCTION.
 - ALL CONSTRUCTION WILL CONFORM TO THE TOWN OF ADDISON STANDARDS AND SPECIFICATIONS, AS WELL AS, ANY GOVERNING TxDOT OR RAILROAD STANDARDS AND SPECIFICATIONS RELATED TO THIS PROJECT.
 - ALL DIMENSIONS ARE TO BACK OF CURB OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
 - REINFORCEMENT SHOULD BE CONTINUOUS THROUGH CONTROL JOINTS.
 - THE CONTRACTOR WILL COORDINATE INSTALLATION OF ALL SIGNS, PAVEMENT MARKINGS AND OTHER TRAFFIC CONTROL DEVICES BY THE CITY DURING CONSTRUCTION
 - ALL PROPOSED GRADES INDICATED ARE FINISHED GRADES.
 - ALL LAND FORMS, SWALES, AND GRADES SHALL BE FINISHED TO BE A SMOOTH, FLOWING, ROUNDED SURFACE PROVIDING POSITIVE DRAINAGE AND VISUAL LANDFORM CONTINUITY.
 - GRADING FOR THE IMPROVEMENTS SHALL OCCUR AS DIRECTED BY LANDSCAPE ARCHITECT WITH THE FOLLOWING GUIDELINES:
 - ALL WALKS SHALL HAVE A CROSS SLOPE OF 2% IN THE DIRECTION OF THE DOWNHILL SIDE.
 - THE LONGITUDINAL SLOPE OF THE WALKS SHALL NOT EXCEED 5%.
 - NO EARTHEN SLOPES SHALL BE GREATER THAN 3:1.

LAYOUT COORDINATE TABLE

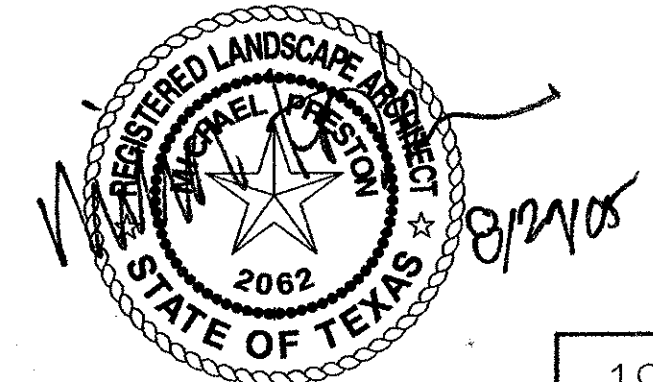
166	N 10312.51 E 10696.89	171	N 10357.97 E 10831.08	176	N 10387.87 E 10937.84	181	N 10453.73 E 11048.11	186	N 10329.88 E 10900.36	191	N 10385.83 E 10990.82	196	N 10277.45 E 10874.25	201	N 10358.76 E 11073.83
167	N 10315.64 E 10714.65	172	N 10362.59 E 10829.14	177	N 10396.83 E 10933.63	182	N 10472.63 E 11090.55	187	N 10343.69 E 10894.51	192	N 10411.88 E 11050.35	197	N 10336.41 E 11003.42	202	N 10370.04 E 11086.95
168	N 10335.81 E 10764.62	173	N 10344.14 E 10836.86	178	N 10402.50 E 10946.59	183	N 10483.66 E 11106.46	188	N 10359.22 E 10929.99	193	N 10398.14 E 11056.36	198	N 10347.71 E 10998.48	203	N 10386.08 E 11123.59
169	N 10339.52 E 10770.51	174	N 10379.36 E 10868.76	179	N 10423.49 E 10981.04	184	N 10327.88 E 10857.65	189	N 10357.18 E 10962.75	194	N 10414.17 E 11093.01	199	N 10329.38 E 11006.50	204	N 10402.11 E 11160.24
170	N 10353.30 E 10805.74	175	N 10405.99 E 10929.62	180	N 10314.07 E 10983.80	185	N 10314.07 E 10863.50	190	N 10382.50 E 11020.63	195	N 10427.91 E 11086.99	200	N 10352.24 E 11058.73	205	N 10367.16 E 10840.13

CONTAINER / MOW CURB CENTERLINE CURVE DATA

CURVE	DELTA	RADIUS	ARC	TANGENT	BEARING	CHORD
C18	17°32'22"	150.00'	45.92'	23.14	N 71°12'48" W	45.74'
C21	08°57'19"	1266.00'	197.88'	99.14	N 69°56'38" E	197.67'
C22	22°14'36"	150.00'	58.23	29.49'	S 68°51'41" W	57.87'
C23	21°48'31"	100.00'	38.06'	19.26'	S 68°38'39" W	37.83'
C24	15°27'26"	150.00'	40.47'	20.36'	N 58°38'21" E	40.34'
C25	25°47'23"	125.00'	56.26'	28.62'	N 63°48'20" E	55.79'
C26	21°25'07"	125.00'	46.73'	23.64'	N 65°59'28" E	46.46'
C27	22°16'28"	125.00'	48.60'	24.61'	N 66°25'08" E	48.29'

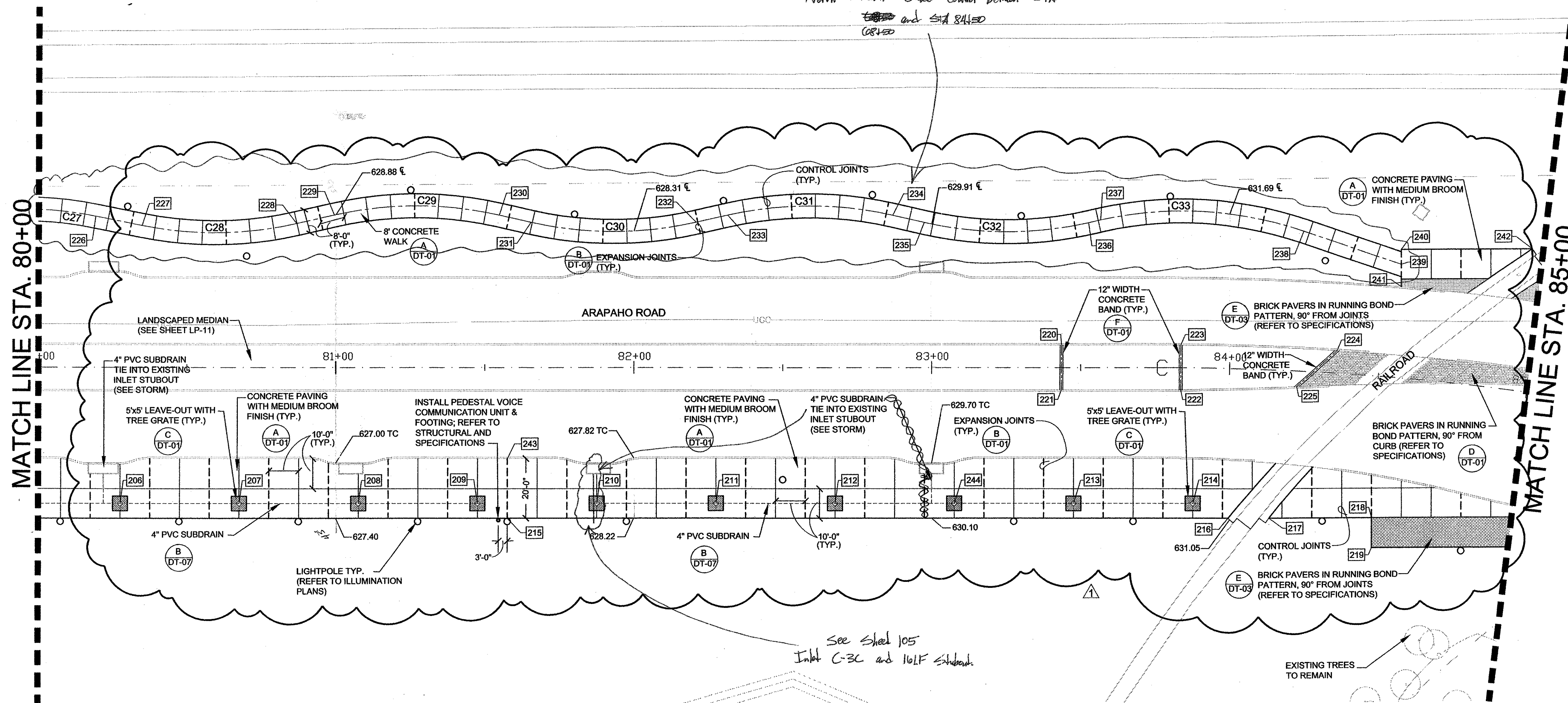
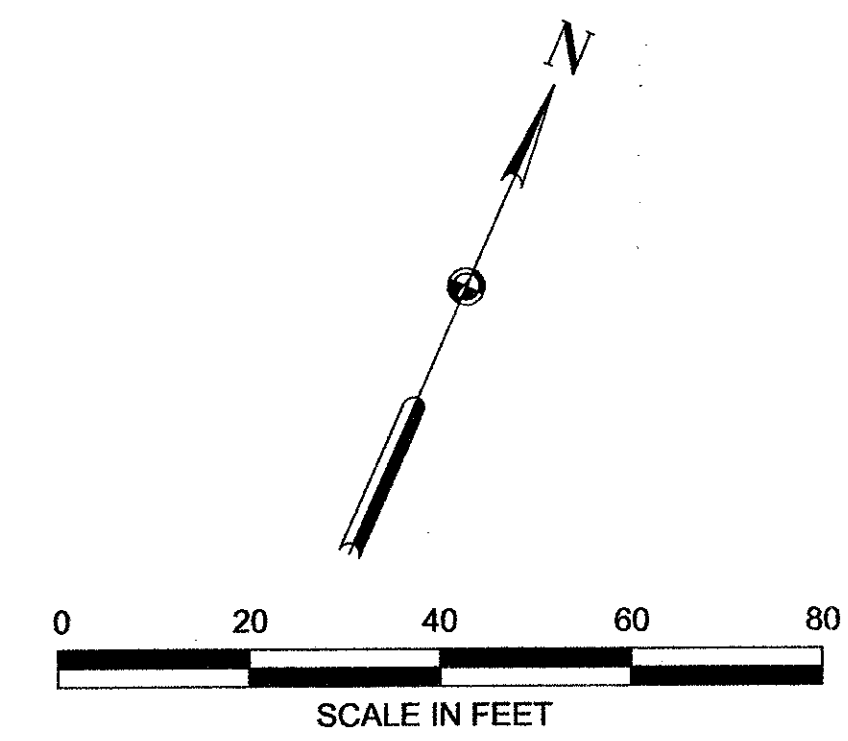
LEGEND:

- BRICK PAVERS IN RUNNING BOND PATTERN (SEE SPECIFICATIONS)
- EXPANSION JOINTS
- CONTROL JOINTS
- TREE GRATE
- EXISTING CONTOURS
- PROPOSED CONTOURS
- SECURITY FENCE



NO. DATE		REVISION		APPROV.	
1	8/26/05	REVISED SPOT ELEVATIONS			
HNTB ARCHITECTS ENGINEERS PLANNERS The HNTB Companies					
ARAPAHO ROAD EXTENSION					
SURVEYOR BOULEVARD TO ADDISON ROAD					
STA 75+00 TO 80+00 SITWORK LAYOUT & DIMENSIONING PLAN					
TOWN OF ADDISON, TEXAS					
Design DAB	Drawn DAB	DATE	SCALE	PROJECT NO.	SHEET NO.
Check MP	Check MP	2/4/05	VARIES	25768	LA-10

See RFI # 088
 North Sidewalk Grade Control between STA
 80+00 and STA 84+00
 CORDED



GENERAL NOTES:

- 1.) WRITTEN DIMENSIONS AND COORDINATE DATA SHALL GOVERN OVER SCALED DIMENSIONS.
- 2.) SEE THE SURVEY CONTROL PLAN SHEETS WITHIN THIS SET FOR COORDINATE CONTROL POINT INFORMATION.
- 3.) ALL IMPROVEMENTS SHALL BE STAKED IN THE FIELD BY THE CONTRACTOR AND APPROVED BY THE LANDSCAPE ARCHITECT AND OWNER'S REP. PRIOR TO CONSTRUCTION OR INSTALLATION.
- 4.) THE CONTRACTOR SHALL VERIFY ALL EASEMENT LINES IN THE FIELD PRIOR TO BEGINNING WORK.
- 5.) CONTRACTOR SHALL VERIFY ALL UTILITIES SHOWN ON THESE PLANS AS WELL AS ANY OTHERS IN FIELD PRIOR TO START OF CONSTRUCTION.
- 6.) ALL CONSTRUCTION WILL CONFORM TO THE TOWN OF ADDISON STANDARDS AND SPECIFICATIONS, AS WELL AS, ANY GOVERNING TxDOT OR RAILROAD STANDARDS AND SPECIFICATIONS RELATED TO THIS PROJECT.
- 7.) ALL DIMENSIONS ARE TO BACK OF CURB OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- 8.) REINFORCEMENT SHOULD BE CONTINUOUS THROUGH CONTROL JOINTS.
- 9.) THE CONTRACTOR WILL COORDINATE INSTALLATION OF ALL SIGNS, PAVEMENT MARKINGS AND OTHER TRAFFIC CONTROL DEVICES BY THE CITY DURING CONSTRUCTION.
- 10.) ALL PROPOSED GRADES INDICATED ARE FINISHED GRADES.
- 11.) ALL LAND FORMS, SWALES, AND GRADES SHALL BE FINISHED TO BE A SMOOTH, FLOWING, ROUNDED SURFACE PROVIDING POSITIVE DRAINAGE AND VISUAL LANDFORM CONTINUITY.
- 12.) GRADING FOR THE IMPROVEMENTS SHALL OCCUR AS DIRECTED BY LANDSCAPE ARCHITECT WITH THE FOLLOWING GUIDELINES:
 - ALL WALKS SHALL HAVE A CROSS SLOPE OF 2% IN THE DIRECTION OF THE DOWNHILL SIDE.
 - THE LONGITUDINAL SLOPE OF THE WALKS SHALL NOT EXCEED 5%.
- 13.) NO EARTHEN SLOPES SHALL BE GREATER THAN 3:1.

See Sheet 105
 Inlet C-30 and Half Subdrain

LAYOUT COORDINATE TABLE

206 N 11196.88 E 10418.14	211 N 10498.32 E 11380.12	216 N 10562.61 E 11539.52	221 N 10579.60 E 11471.08	226 N 10502.98 E 11150.72	231 N 10559.77 E 11285.33	236 N 10634.74 E 11456.88	241 N 10656.85 E 11561.79
207 N 11233.53 E 10434.18	212 N 10514.35 E 11416.75	217 N 10568.14 E 11552.15	222 N 10595.88 E 11507.72	227 N 10506.40 E 11166.21	232 N 10581.97 E 11336.07	237 N 10637.18 E 11460.19	242 N 10685.98 E 11596.97
208 N 10450.21 E 11270.17	213 N 10546.42 E 11490.05	218 N 10581.93 E 11583.66	223 N 10609.40 E 11501.80	228 N 10527.85 E 11213.46	233 N 10588.44 E 11344.85	238 N 10661.04 E 11524.24	243 N 10484.00 E 11309.97
209 N 10466.25 E 11306.82	214 N 10562.46 E 11526.69	219 N 10572.77 E 11587.67	224 N 10628.65 E 11560.65	229 N 10535.55 E 11223.91	234 N 10610.65 E 11395.64	239 N 10663.80 E 11558.75	244 N 10530.39 E 11453.40
210 N 10482.28 E 11343.46	215 N 10465.68 E 11317.98	220 N 10593.38 E 11465.15	225 N 10612.21 E 11543.02	230 N 10557.72 E 11274.60	235 N 10612.69 E 11406.29	240 N 10668.38 E 11556.75	

CONTAINER / MOW CURB CENTERLINE CURVE DATA

CURVE	DELTA	RADIUS	ARC	TANGENT	BEARING	CHORD
C27	22°16'28"	125.00'	48.60'	24.61'	N 66°25'08" E	48.29'
C28	23°57'26"	125.00'	52.27'	26.52'	N 65°34'39" E	51.89'
C29	25°34'18"	125.00'	55.79'	28.37'	N 66°23'05" E	55.33'
C30	25°35'53"	125.00'	55.85'	28.40'	N 66°22'17" E	55.38'
C31	25°37'25"	125.00'	55.90'	28.43'	N 66°23'04" E	55.44'
C32	25°30'09"	125.00'	55.64'	28.29'	N 66°26'42" E	55.18'
C33	31°44'05"	125.00'	69.23'	35.53'	N 69°33'40" E	68.35'

LEGEND:

- BRICK PAVERS IN RUNNING BOND PATTERN (SEE SPECIFICATIONS)
- EXPANSION JOINTS
- CONTROL JOINTS
- TREE GRATE
- EXISTING CONTOURS
- PROPOSED CONTOURS



NO.	DATE	REVISION	APPROV.
1	8/26/05	REVISED SPOT ELEVATIONS	

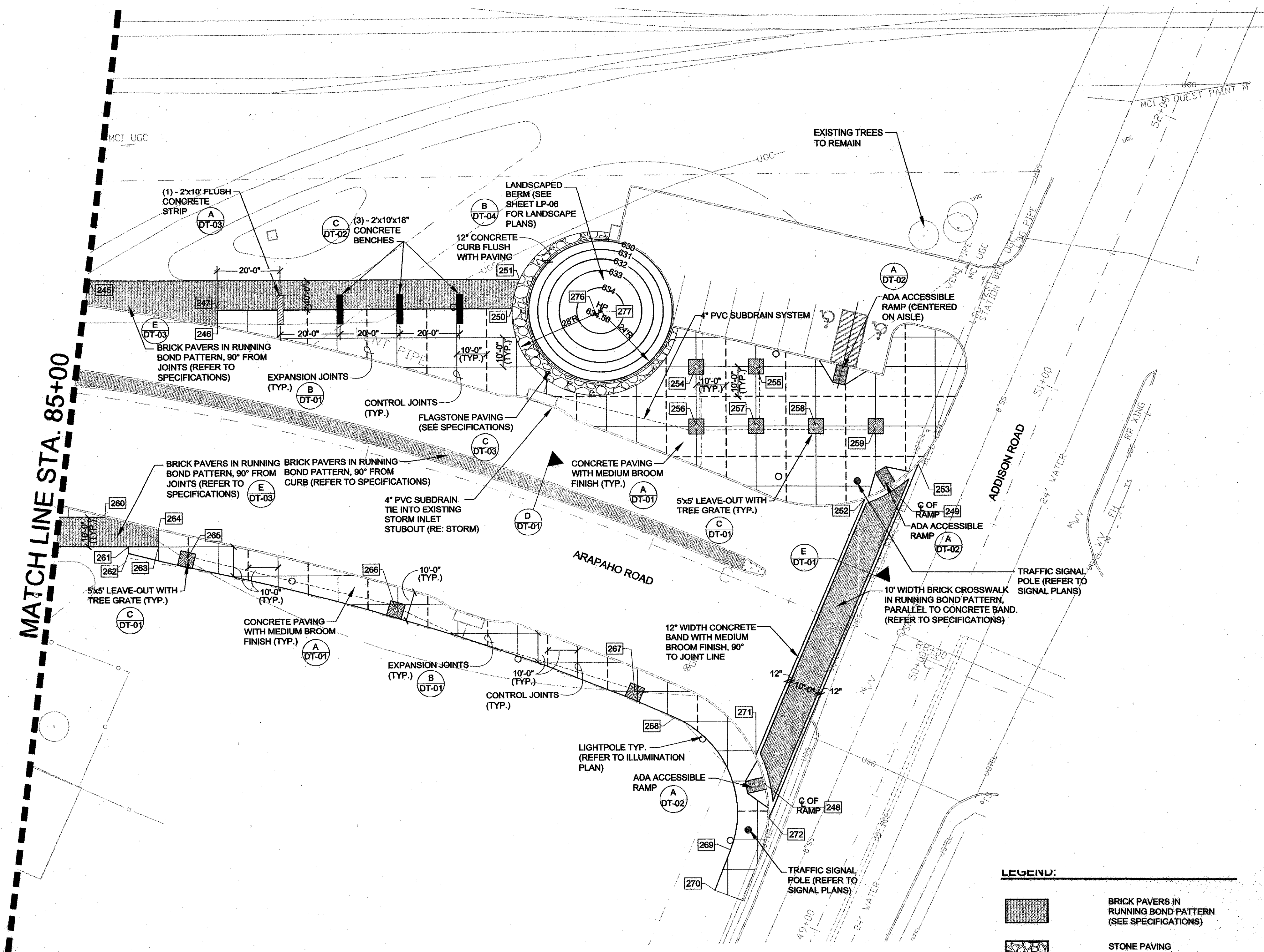
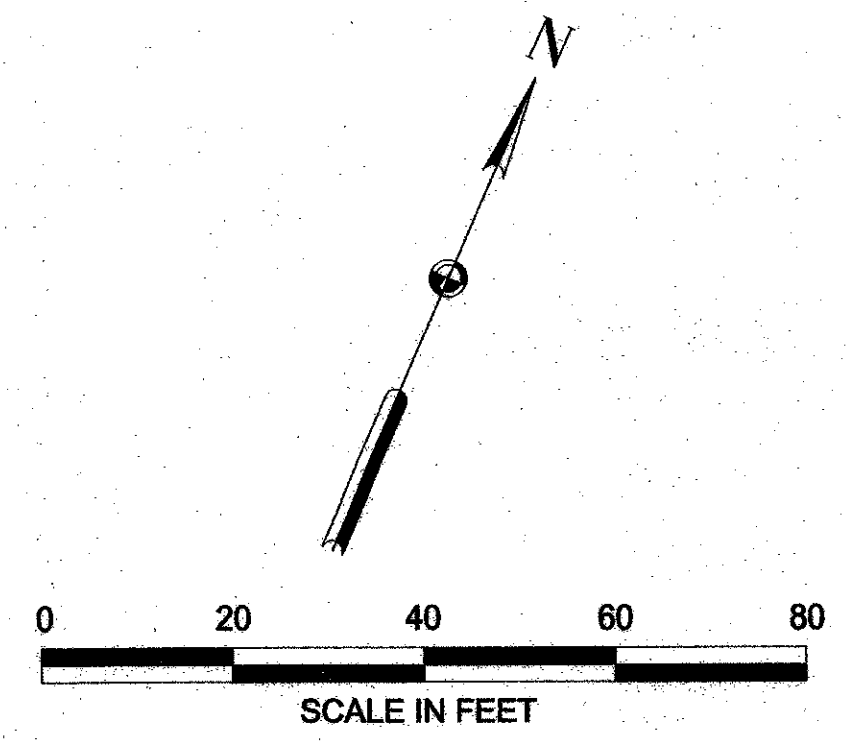
HNTB ARCHITECTS ENGINEERS PLANNERS
 The HNTB Companies

ARAPAHO ROAD EXTENSION
 SURVEYOR BOULEVARD TO ADDISON ROAD

STA 80+00 TO 85+00
 SITEWORK LAYOUT & DIMENSIONING PLAN

TOWN OF ADDISON, TEXAS

Design	Drawn	DATE	SCALE	PROJECT NO.	SHEET NO.
DAB	DAB	2/4/05	VARIABLE	25768	LA-11



GENERAL NOTES:

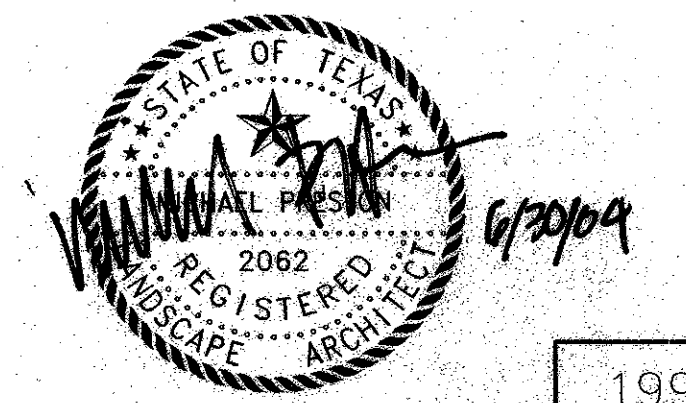
- 1.) WRITTEN DIMENSIONS AND COORDINATE DATA SHALL GOVERN OVER SCALED DIMENSIONS.
- 2.) SEE THE SURVEY CONTROL PLAN SHEETS WITHIN THIS SET FOR COORDINATE CONTROL POINT INFORMATION.
- 3.) ALL IMPROVEMENTS SHALL BE STAKED IN THE FIELD BY THE CONTRACTOR AND APPROVED BY THE LANDSCAPE ARCHITECT AND OWNER'S REP. PRIOR TO CONSTRUCTION OR INSTALLATION.
- 4.) THE CONTRACTOR SHALL VERIFY ALL EASEMENT LINES IN THE FIELD PRIOR TO BEGINNING WORK.
- 5.) CONTRACTOR SHALL VERIFY ALL UTILITIES SHOWN ON THESE PLANS AS WELL AS ANY OTHERS IN FIELD PRIOR TO START OF CONSTRUCTION.
- 6.) ALL CONSTRUCTION WILL CONFORM TO THE TOWN OF ADDISON STANDARDS AND SPECIFICATIONS, AS WELL AS, ANY GOVERNING TXDOT OR RAILROAD STANDARDS AND SPECIFICATIONS RELATED TO THIS PROJECT.
- 7.) ALL DIMENSIONS ARE TO BACK OF CURB OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- 8.) REINFORCEMENT SHOULD BE CONTINUOUS THROUGH CONTROL JOINTS.
- 9.) THE CONTRACTOR WILL COORDINATE INSTALLATION OF ALL SIGNS, PAVEMENT MARKINGS AND OTHER TRAFFIC CONTROL DEVICES BY THE CITY DURING CONSTRUCTION
- 10.) ALL PROPOSED GRADES INDICATED ARE FINISHED GRADES.
- 11.) ALL LAND FORMS, SWALES, AND GRADES SHALL BE FINISHED TO BE A SMOOTH, FLOWING, ROUNDED SURFACE PROVIDING POSITIVE DRAINAGE AND VISUAL LANDFORM CONTINUITY.
- 12.) GRADING FOR THE IMPROVEMENTS SHALL OCCUR AS DIRECTED BY LANDSCAPE ARCHITECT WITH THE FOLLOWING GUIDELINES:
 - ALL WALKS SHALL HAVE A CROSS SLOPE OF 2% IN THE DIRECTION OF THE DOWNHILL SIDE.
 - THE LONGITUDINAL SLOPE OF THE WALKS SHALL NOT EXCEED 5%.
- 13.) NO EARTHEN SLOPES SHALL BE GREATER THAN 3:1.

LEGEND:

- BRICK PAVERS IN RUNNING BOND PATTERN (SEE SPECIFICATIONS)
- STONE PAVING (SEE SPECIFICATIONS)
- EXPANSION JOINTS
- CONTROL JOINTS
- 2x10x18" CONCRETE BENCH
- 2x10' CONCRETE STRIP
- TREE GRATE
- EXISTING CONTOURS
- PROPOSED CONTOURS

LAYOUT COORDINATE TABLE

245	N 10678.16 E 11604.04	250	N 10725.83 E 11737.48	255	N 10739.97 E 11820.14	260	N 10606.87 E 11640.87	265	N 10604.64 E 11671.35	270	N 10572.00 E 11877.97
246	N 10681.15 E 11649.40	251	N 10735.79 E 11735.75	256	N 10713.83 E 11809.84	261	N 10600.83 E 11651.80	266	N 10618.60 E 11742.35	271	N 10619.26 E 11872.46
247	N 10686.13 E 11647.22	252	N 10713.90 E 11871.11	257	N 10721.65 E 11828.16	262	N 10598.81 E 11652.68	267	N 10622.52 E 11826.81	272	N 10601.76 E 11884.71
248	N 10611.86 E 11678.56	253	N 10731.75 E 11882.86	258	N 10729.86 E 11846.48	263	N 10604.83 E 11660.96	268	N 10620.14 E 11842.44		
249	N 10721.48 E 11877.01	254	N 10731.95 E 11864.80	259	N 10737.88 E 11864.80	264	N 10610.01 E 11658.70	269	N 10586.68 E 11877.32		



NO.	DATE	REVISION	APPROV.

199

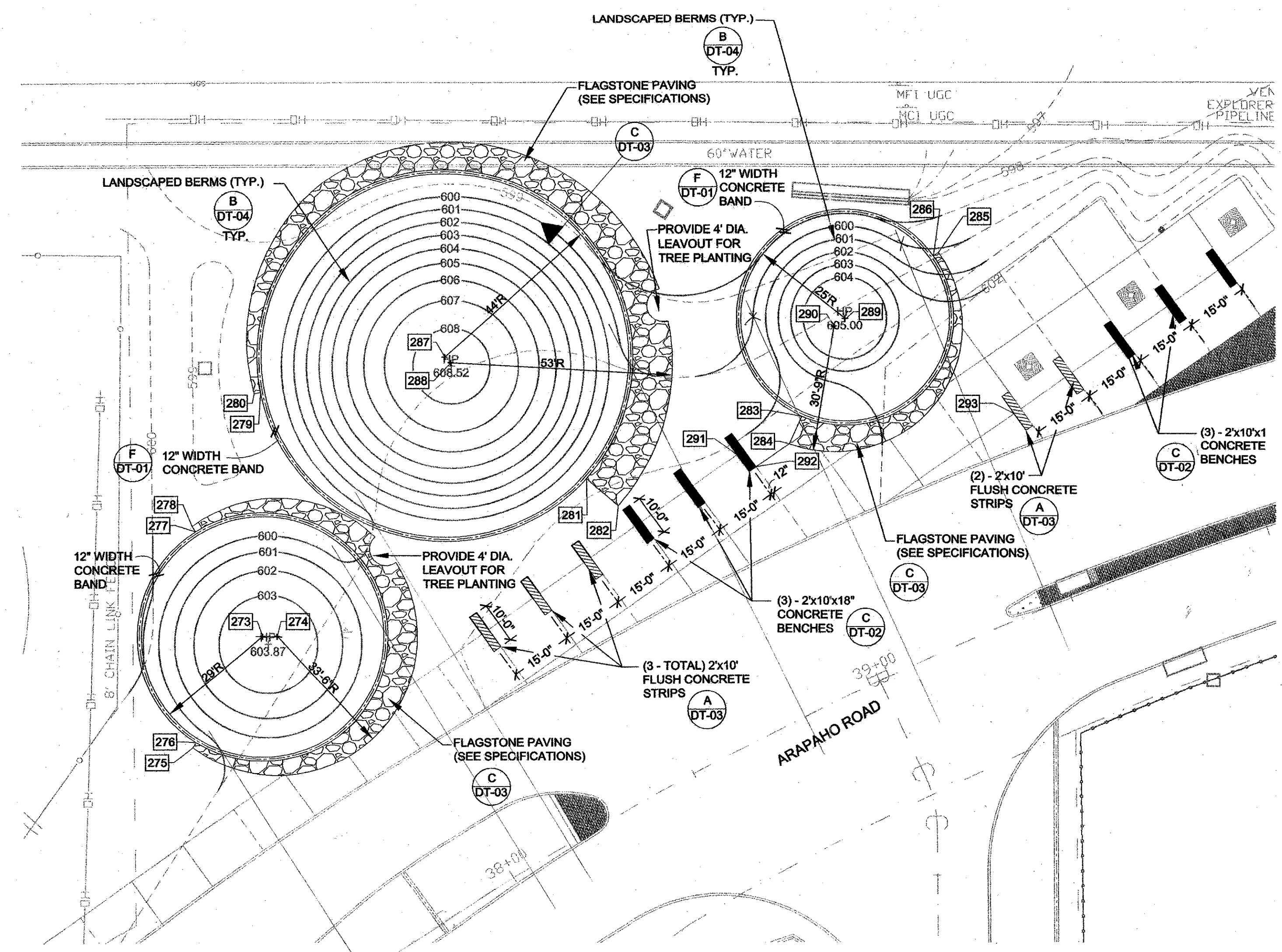
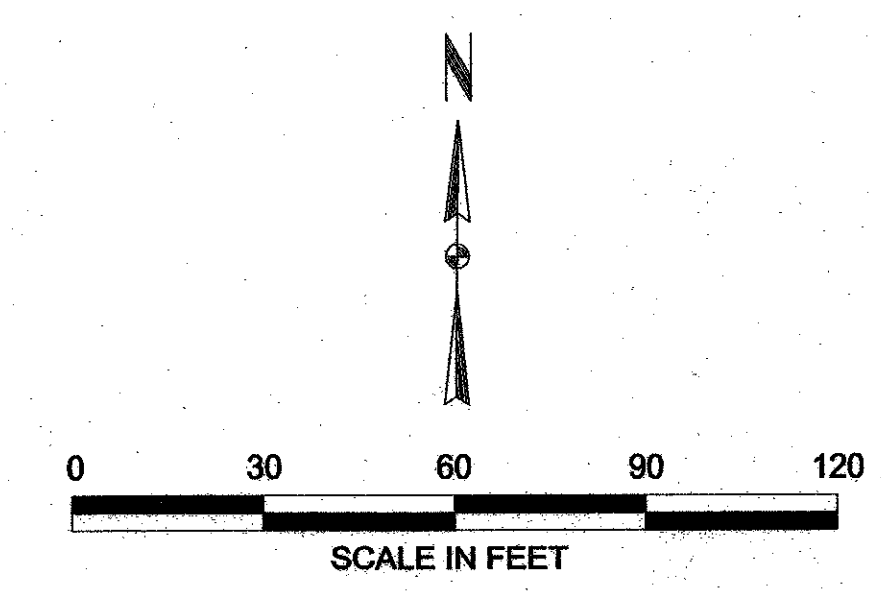
HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB Companies

ARAPAHO ROAD EXTENSION
SURVEYOR BOULEVARD TO ADDISON ROAD

STA 85+00 TO 87+88
SITEWORK LAYOUT & DIMENSIONING PLAN

TOWN OF ADDISON, TEXAS

Design	Drawn	DATE	SCALE	PROJECT NO.	SHEET NO.
DAB	DAB	6/3/04	VARIABLES	25768	LA-12



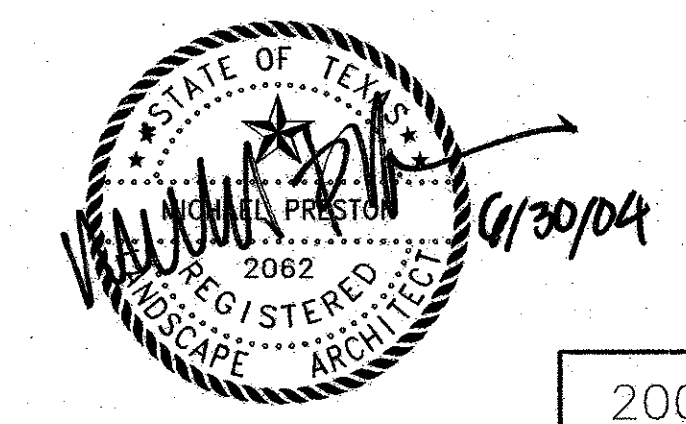
- GENERAL NOTES:**
- 1.) WRITTEN DIMENSIONS AND COORDINATE DATA SHALL GOVERN OVER SCALED DIMENSIONS.
 - 2.) SEE THE SURVEY CONTROL PLAN SHEETS WITHIN THIS SET FOR COORDINATE CONTROL POINT INFORMATION.
 - 3.) ALL IMPROVEMENTS SHALL BE STAKED IN THE FIELD BY THE CONTRACTOR AND APPROVED BY THE LANDSCAPE ARCHITECT AND OWNER'S REP. PRIOR TO CONSTRUCTION OR INSTALLATION.
 - 4.) THE CONTRACTOR SHALL VERIFY ALL EASEMENT LINES IN THE FIELD PRIOR TO BEGINNING WORK.
 - 5.) CONTRACTOR SHALL VERIFY ALL UTILITIES SHOWN ON THESE PLANS AS WELL AS ANY OTHERS IN FIELD PRIOR TO START OF CONSTRUCTION.
 - 6.) ALL CONSTRUCTION WILL CONFORM TO THE TOWN OF ADDISON STANDARDS AND SPECIFICATIONS, AS WELL AS, ANY GOVERNING TXDOT OR RAILROAD STANDARDS AND SPECIFICATIONS RELATED TO THIS PROJECT.
 - 7.) ALL DIMENSIONS ARE TO BACK OF CURB OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
 - 8.) REINFORCEMENT SHOULD BE CONTINUOUS THROUGH CONTROL JOINTS.
 - 9.) THE CONTRACTOR WILL COORDINATE INSTALLATION OF ALL SIGNS, PAVEMENT MARKINGS AND OTHER TRAFFIC CONTROL DEVICES BY THE CITY DURING CONSTRUCTION
 - 10.) ALL PROPOSED GRADES INDICATED ARE FINISHED GRADES.
 - 11.) ALL LAND FORMS, SWALES, AND GRADES SHALL BE FINISHED TO BE A SMOOTH, FLOWING, ROUNDED SURFACE PROVIDING POSITIVE DRAINAGE AND VISUAL LANDFORM CONTINUITY.
 - 12.) GRADING FOR THE IMPROVEMENTS SHALL OCCUR AS DIRECTED BY LANDSCAPE ARCHITECT WITH THE FOLLOWING GUIDELINES:
 - ALL WALKS SHALL HAVE A CROSS SLOPE OF 2% IN THE DIRECTION OF THE DOWNHILL SIDE.
 - THE LONGITUDINAL SLOPE OF THE WALKS SHALL NOT EXCEED 5%.
 - 13.) NO EARTHEN SLOPES SHALL BE GREATER THAN 3:1.

LAYOUT COORDINATE TABLE

273	N 10042.77 E 6971.36	278	N 10089.40 E 6954.54	283	N 10098.82 E 7100.59	288	N 10109.20 E 7016.59	293	N 10096.83 E 7151.25
274	N 10042.77 E 6974.86	279	N 10102.04 E 6970.99	284	N 10089.91 E 7098.29	289	N 10120.00 E 7110.90		
275	N 10018.13 E 6954.54	280	N 10101.76 E 6969.52	285	N 10135.92 E 7133.33	290	N 10118.12 E 7108.25		
276	N 10017.40 E 6954.34	281	N 10080.93 E 7048.91	286	N 10135.05 E 7132.10	291	N 10086.58 E 7084.95		
277	N 10068.13 E 6955.34	282	N 10074.28 E 7056.47	287	N 10110.65 E 7015.14	292	N 10083.66 E 7089.48		

LEGEND:

- BRICK PAVERS IN RUNNING BOND PATTERN (SEE SPECIFICATIONS)
- STONE PAVING (SEE SPECIFICATIONS)
- EXPANSION JOINTS
- CONTROL JOINTS
- 2'x10'x18" CONCRETE BENCH
- 2'x10' CONCRETE STRIP
- TREE GRATE
- EXISTING CONTOURS
- PROPOSED CONTOURS



NO.	DATE	REVISION	APPROV.
			200

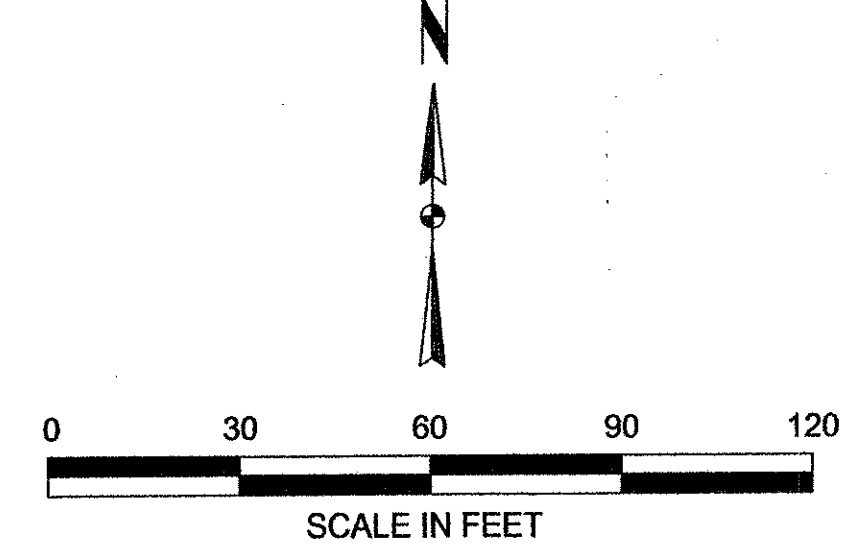
HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB Companies

ARAPAHO ROAD EXTENSION
SURVEYOR BOULEVARD TO ADDISON ROAD

ALTERNATE 1 PARK "A"
SITWORK LAYOUT & DIMENSIONING PLAN

TOWN OF ADDISON, TEXAS

Design	DAB	Drawn	DAB	DATE	SCALE	PROJECT NO.	SHEET NO.
Check	MP	Check	MP	6/3/04	VARIABLES	25788	LA-13



GENERAL NOTES:

WRITTEN DIMENSIONS AND COORDINATE DATA SHALL GOVERN OVER SCALED DIMENSIONS.

SEE THE SURVEY CONTROL PLAN SHEETS WITHIN THIS SET FOR COORDINATE CONTROL POINT INFORMATION.

ALL IMPROVEMENTS SHALL BE STAKED IN THE FIELD BY THE CONTRACTOR AND APPROVED BY THE LANDSCAPE ARCHITECT AND OWNER'S REP. PRIOR TO CONSTRUCTION OR INSTALLATION.

THE CONTRACTOR SHALL VERIFY ALL EASEMENT LINES IN THE FIELD PRIOR TO BEGINNING WORK.

CONTRACTOR SHALL VERIFY ALL UTILITIES SHOWN ON THESE PLANS AS WELL AS ANY OTHERS IN FIELD PRIOR TO START OF CONSTRUCTION.

ALL CONSTRUCTION WILL CONFORM TO THE TOWN OF ADDISON STANDARDS AND SPECIFICATIONS, AS WELL AS, ANY GOVERNING TxDOT OR RAILROAD STANDARDS AND SPECIFICATIONS RELATED TO THIS PROJECT.

ALL DIMENSIONS ARE TO BACK OF CURB OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.

REINFORCEMENT SHOULD BE CONTINUOUS THROUGH CONTROL JOINTS.

THE CONTRACTOR WILL COORDINATE INSTALLATION OF ALL SIGNS, PAVEMENT MARKINGS AND OTHER TRAFFIC CONTROL DEVICES BY THE CITY DURING CONSTRUCTION.

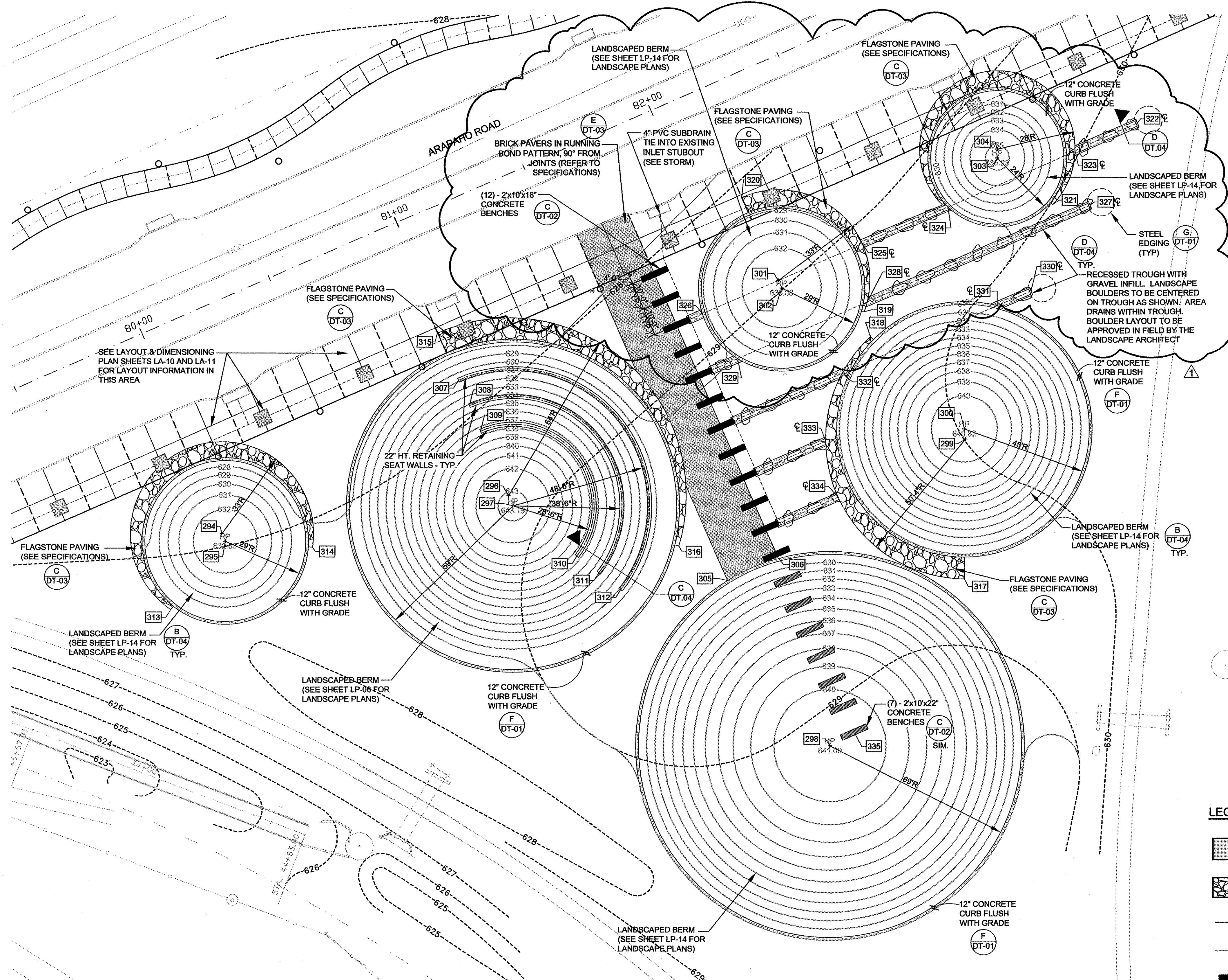
ALL PROPOSED GRADES INDICATED ARE FINISHED GRADES.

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- THE LONGITUDINAL SLOPE OF THE WALKS SHALL NOT EXCEED 5%.

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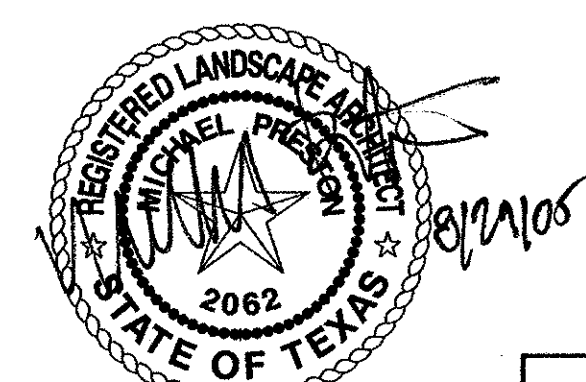


LEGEND:

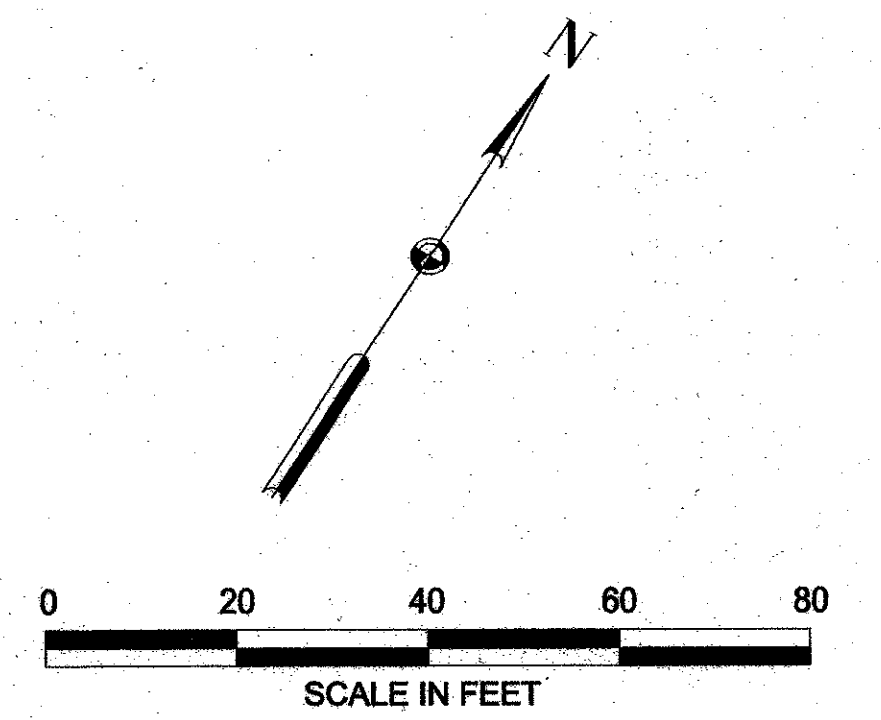
	BRICK PAVERS IN RUNNING BOND PATTERN (SEE SPECIFICATIONS)
	STONE PAVING (SEE SPECIFICATIONS)
	EXPANSION JOINTS
	CONTROL JOINTS
	2x10x18" CONCRETE BENCH
	2x10x22" CONCRETE BENCH
	2x10" CONCRETE STRIP
	EXISTING CONTOURS
	PROPOSED CONTOURS

LAYOUT COORDINATE TABLE

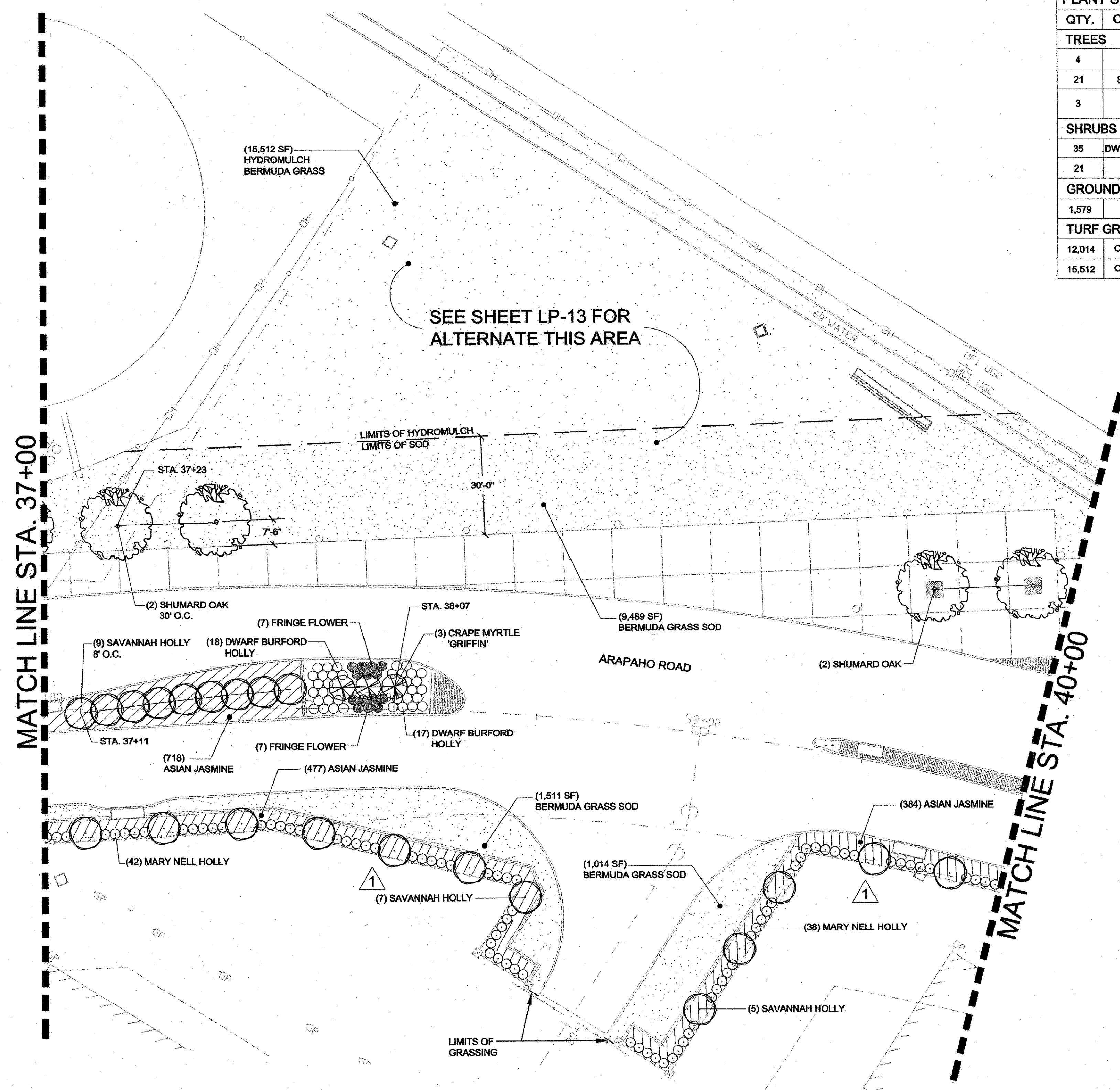
294	N 10376.80 E 11182.23	299	N 10410.53 E 11450.11	304	N 10515.06 E 11461.44	309	N 10413.45 E 11275.34	314	N 10371.94 E 11214.86	319	N 10456.37 E 11413.55	324	N 10494.47 E 11443.66	329	N 10439.51 E 11367.95	334	N 10389.89 E 11404.19
295	N 10374.06 E 11183.44	300	N 10414.15 E 11449.68	305	N 10359.66 E 11364.37	310	N 10368.62 E 11310.10	315	N 10448.95 E 11259.81	320	N 10497.97 E 11369.35	325	N 10480.97 E 11412.81	330	N 10463.91 E 11473.60	335	N 10304.21 E 11410.47
296	N 10390.32 E 11285.46	301	N 10467.74 E 11382.57	306	N 10367.68 E 11382.69	311	N 10362.45 E 11317.97	316	N 10372.18 E 11346.84	321	N 10495.41 E 11481.38	326	N 10455.77 E 11355.23	331	N 10458.61 E 11461.49		
297	N 10386.65 E 11287.07	302	N 10464.99 E 11383.78	307	N 10431.77 E 11267.33	312	N 10356.29 E 11325.84	317	N 10360.15 E 11449.68	322	N 10524.35 E 11511.95	327	N 10495.13 E 11494.86	332	N 10434.15 E 11405.60		
298	N 10300.20 E 11401.30	303	N 10512.06 E 11461.42	308	N 10422.61 E 11271.33	313	N 10349.41 E 11163.82	318	N 10447.46 E 11415.82	323	N 10514.50 E 11489.44	328	N 10460.03 E 11414.64	333	N 10409.75 E 11399.73		



NO.		DATE	REVISION	APPROV.
1	8/26/05	REVISED GRADING		
HNTB ARCHITECTS ENGINEERS PLANNERS The HNTB Companies				
ARAPAHO ROAD EXTENSION				
SURVEYOR BOULEVARD TO ADDISON ROAD				
ALTERNATE 1 PARK "B" SITEWORK LAYOUT & DIMENSIONING PLAN				
TOWN OF ADDISON, TEXAS				
Design DAB	Drawn DAB	DATE	SCALE	PROJECT NO.
Check MP	Check MP	2/4/05	VARIABLES	25768
				SHEET NO. LA-14



PLANT SCHEDULE					
QTY.	COMMON NAME	BOTANICAL NAME	SIZE	CONT.	CONDITION / REMARKS
TREES					
4	SHUMARD OAK	QUERCUS SHUMARDII	4" CAL. 14'-15' HT.	100 GAL.	SPECIMEN, 6" BRANCHING HEIGHT, FULL & SYMMETRICAL
21	SAVANNAH HOLLY	ILEX X ATTENUATA 'SAVANNAH'	3" CAL. 8'-10' HT.	45 GAL.	SPECIMEN, FULL & SYMMETRICAL
3	CRAPE MYRTLE	LAGERSTROEMIA INDICA 'GRIFFIN'	6'-8' HT.	30 GAL.	SPECIMEN, MULTI-STEM, 4-6 HEAVY CANES, TREE FORM, FULL & SYMMETRICAL
SHRUBS					
35	DWARF BURFORD HOLLY	ILEX CORNUTA BURFORDII 'PYGMY'		5 GAL.	FULL & SYMMETRICAL 3' O.C. TYPICAL
21	FRINGE FLOWER	LOROPETALUM CHINENSIS RUBRUM 'BURGUNDY'		5 GAL.	FULL & SYMMETRICAL 3' O.C. TYPICAL
GROUND COVER					
1,579	ASIAN JASMINE	TRACHELOSPERMUM ASIATICUM		1 GAL.	16" O.C.
TURF GRASS					
12,014	COMMON BERMUDA	CYNODON DACTYLON		SOD	
15,512	COMMON BERMUDA	CYNODON DACTYLON		HYDROMULCH	



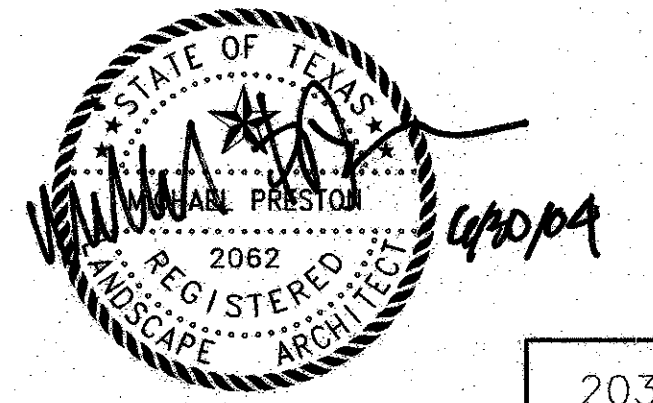
SEE SHEET LP-13 FOR ALTERNATE THIS AREA

PLANTING NOTES:

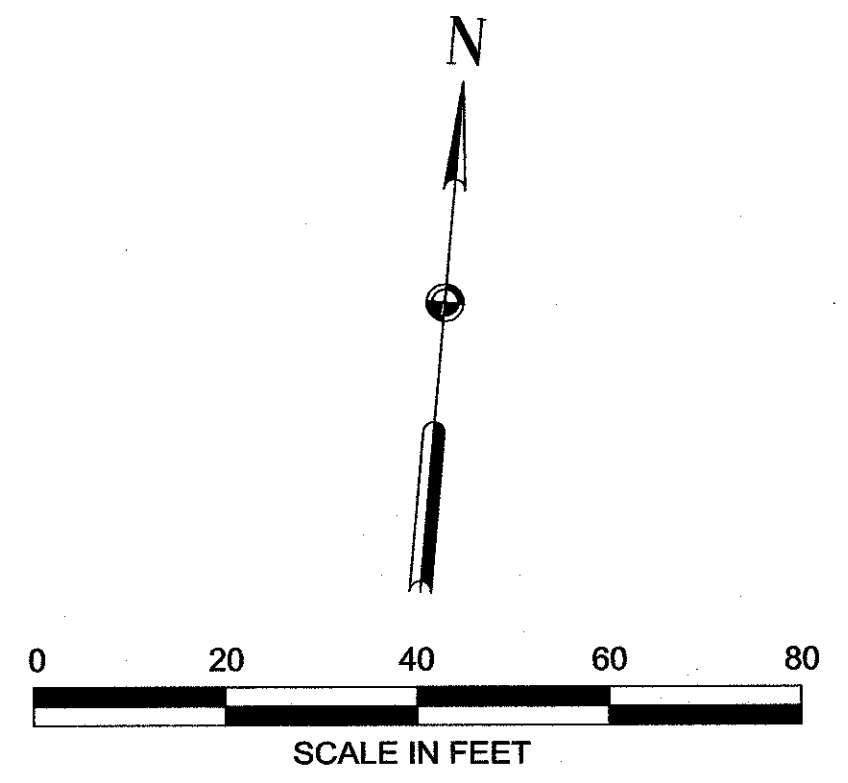
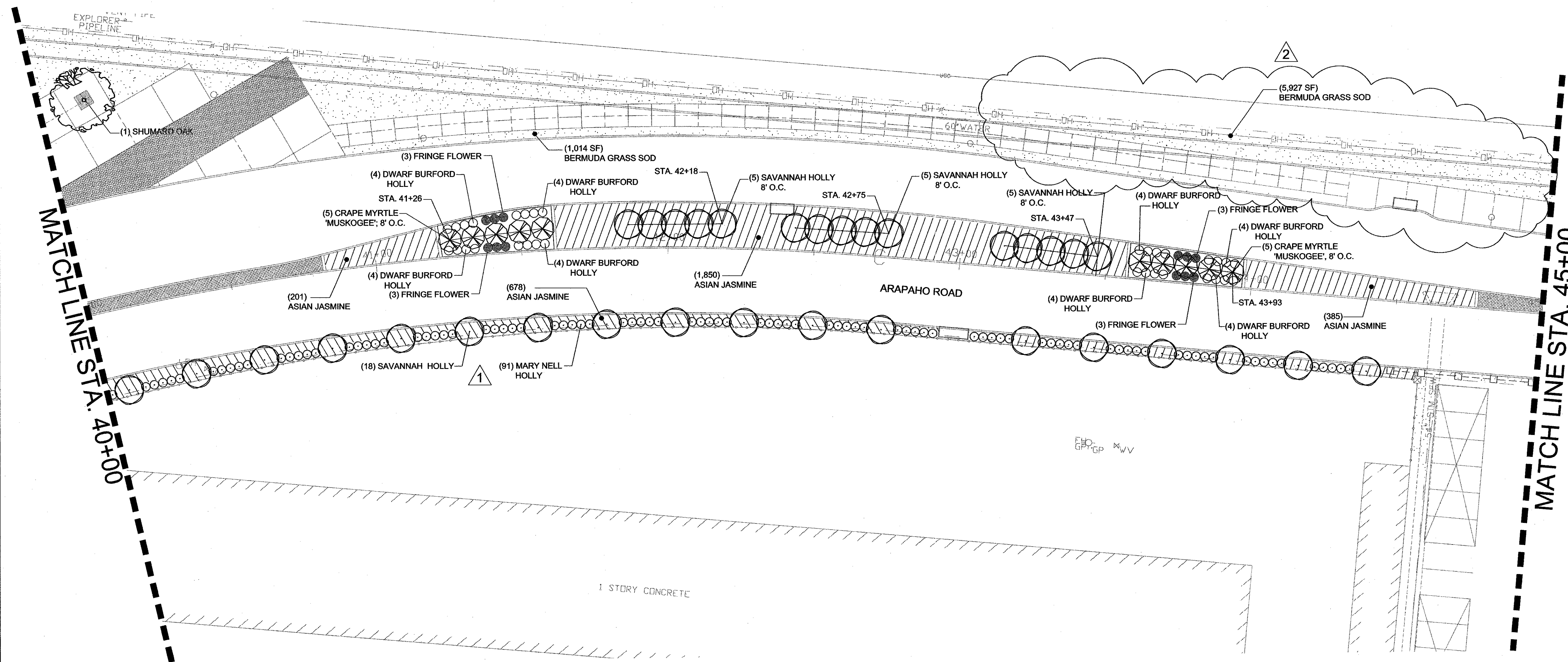
- 1) ALL SITE FEATURE LOCATIONS SHALL BE STAKED IN FIELD BY THE CONTRACTOR AND APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
- 2) FINE GRADING SHALL BE PERFORMED IN ALL AREAS TO BE PLANTED. FINE GRADING SHALL INCLUDE THE REMOVAL OF DEBRIS, ROCKS, ETC. FROM THE SITE, AND INSURE POSITIVE DRAINAGE IN ALL AREAS TO BE PLANTED.
- 3) THE CONTRACTOR SHALL VERIFY ALL BUILDING SETBACK LINES, EASEMENT LINES, AND VISIBILITY LINES IN THE FIELD PRIOR TO CONSTRUCTION.
- 4) THE CONTRACTOR SHALL VERIFY LOCATIONS OF ALL UTILITIES IN THE FIELD PRIOR TO COMMENCEMENT OF WORK. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE OCCURRING TO UTILITIES AS A RESULT OF CONSTRUCTION PROCESSES THROUGHOUT THE PROJECT DURATION.
- 5) WRITTEN DIMENSIONS SHALL GOVERN OVER SCALED DIMENSIONS.
- 6) PROVIDE POSITIVE DRAINAGE AWAY FROM ALL SITE FEATURES.

LEGEND:

- SHUMARD OAK
- SAVANNAH HOLLY
- CRAPE MYRTLE
- DWARF BURFORD HOLLY
- FRINGE FLOWER
- MARY NELL HOLLY
- ASIAN JASMINE
- BERMUDA GRASS SOD
- BERMUDA GRASS HYDROMULCH



NO.	DATE	REVISION	APPROV.
52704 ADDITION OF SCREEN PLANTING ALONG FENCE LINE			
HNTB ARCHITECTS ENGINEERS PLANNERS The HNTB Companies			
ARAPAHO ROAD EXTENSION			
SURVEYOR BOULEVARD TO ADDISON ROAD			
STA 37+00 TO 40+00 LANDSCAPE PLAN			
TOWN OF ADDISON, TEXAS			
Design DAB	Drawn DAB	DATE 6/3/04	SCALE VARIES
Check MP	Check MP	PROJECT NO. 25768	SHEET NO. LP-02



LEGEND:

	SHUMARD OAK
	SAVANNAH HOLLY
	CRAPE MYRTLE
	DWARF BURFORD HOLLY
	FRINGE FLOWER
	MARY NELL HOLLY
	ASIAN JASMINE
	BERMUDA GRASS SOD

PLANT SCHEDULE					
QTY.	COMMON NAME	BOTANICAL NAME	SIZE	CONT.	CONDITION / REMARKS
TREES					
1	SHUMARD OAK	QUERCUS SHUMARDII	4" CAL. 14'-15' HT.	100 GAL.	SPECIMEN, 6' BRANCHING HEIGHT, FULL & SYMMETRICAL
33	SAVANNAH HOLLY	ILEX X ATTENUATA "SAVANNAH"	3" CAL. 8'-10' HT.	45 GAL.	SPECIMEN, FULL & SYMMETRICAL
10	CRAPE MYRTLE	LAGERSTROEMIA INDICA "MUSKOGEE"	6'-8' HT.	30 GAL.	SPECIMEN, MULTI-STEM, 4-6 HEAVY CANES, TREE FORM, FULL & SYMMETRICAL
SHRUBS					
32	DWARF BURFORD HOLLY	ILEX CORNUTA BURFORDII "PYGMY"		5 GAL.	FULL & SYMMETRICAL 3' O.C. TYPICAL
91	MARY NELL HOLLY	ILEX "MARY NELL"		5 GAL.	FULL & SYMMETRICAL 3' O.C. TYPICAL
12	FRINGE FLOWER	LOROPETALUM CHINENSIS RUBRUM "BURGUNDY"		5 GAL.	FULL & SYMMETRICAL 3' O.C. TYPICAL
GROUND COVER					
3,114	ASIAN JASMINE	TRACHELOSPERMUM ASIATICUM		1 GAL.	16" O.C.
TURF GRASS					
6,939	COMMON BERMUDA	CYNODON DACTYLON		SOD	

PLANTING NOTES:

- ALL SITE FEATURE LOCATIONS SHALL BE STAKED IN FIELD BY THE CONTRACTOR AND APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
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- WRITTEN DIMENSIONS SHALL GOVERN OVER SCALED DIMENSIONS.
- PROVIDE POSITIVE DRAINAGE AWAY FROM ALL SITE FEATURES.



NO.	DATE	REVISION	APPROV.
2	2/4/05	REVISED PATH LAYOUT	
1	5/27/04	ADDITION OF SCREEN PLANTING ALONG FENCE LINE	

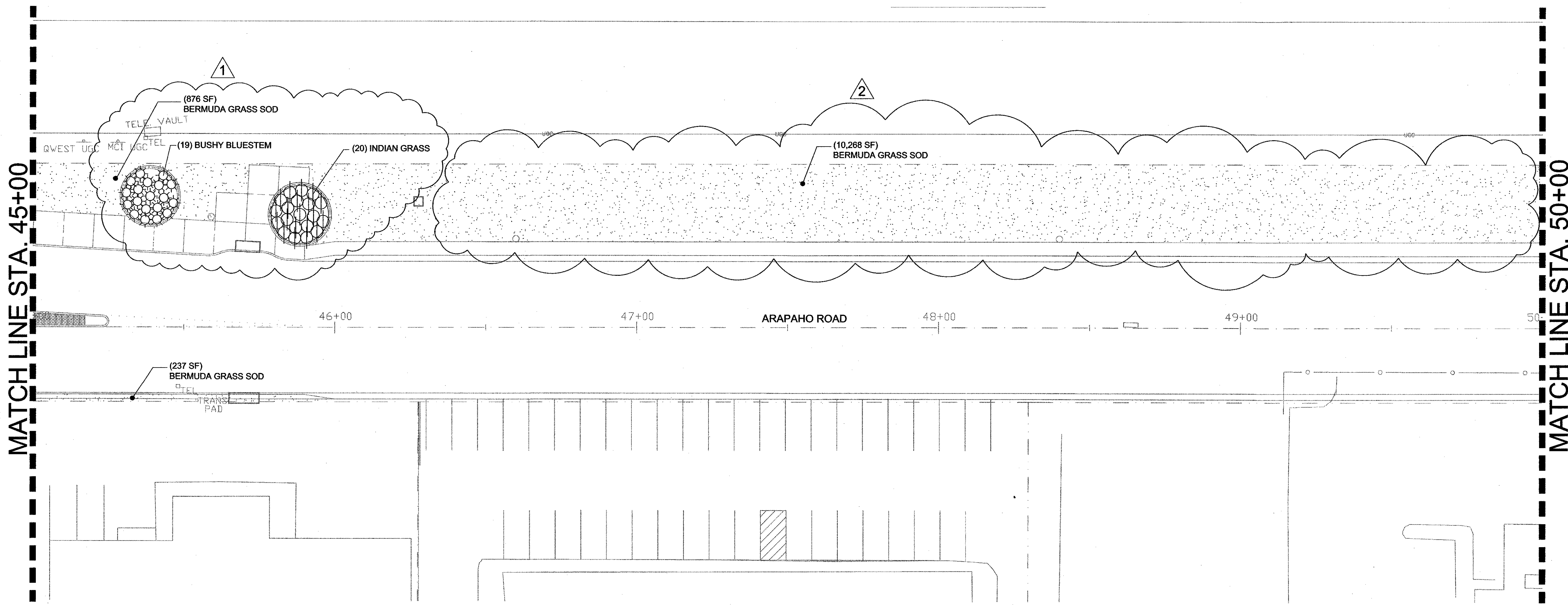
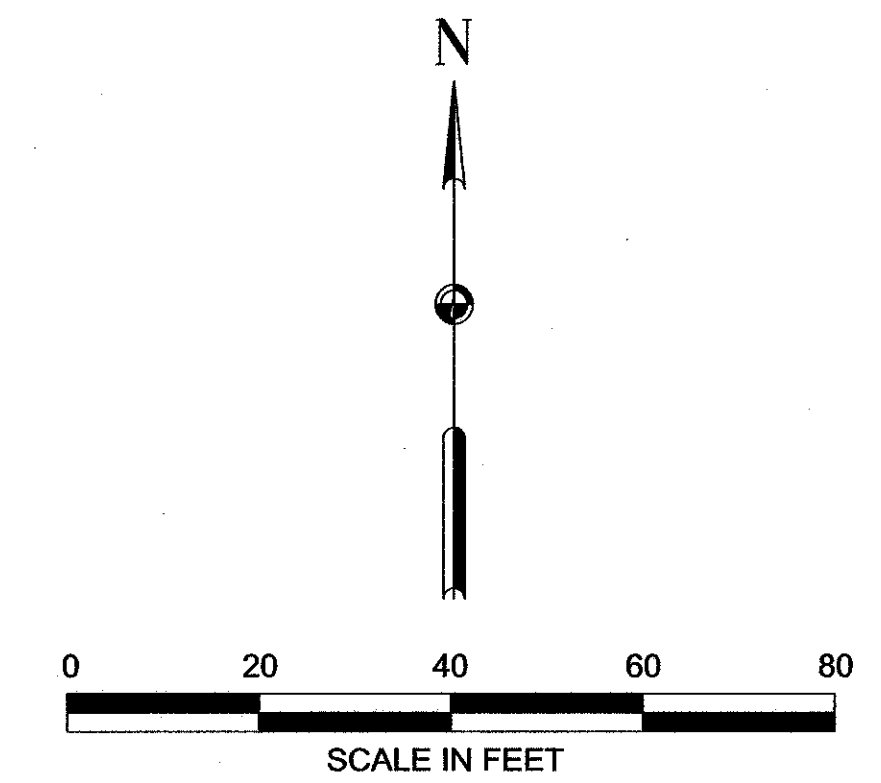
HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB Companies

ARAPAHO ROAD EXTENSION
SURVEYOR BOULEVARD TO ADDISON ROAD

STA 40+00 TO 45+00
LANDSCAPE PLAN

TOWN OF ADDISON, TEXAS

Design	Drawn	DATE	SCALE	PROJECT NO.	SHEET NO.
DAB	DAB	2/4/05	VARIES	25768	LP-03



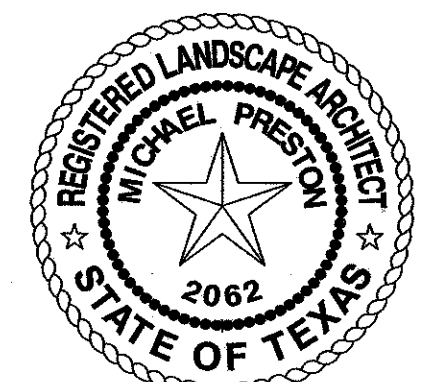
PLANTING NOTES:

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- 2.) FINE GRADING SHALL BE PERFORMED IN ALL AREAS TO BE PLANTED. FINE GRADING SHALL INCLUDE THE REMOVAL OF DEBRIS, ROCKS, ETC. FROM THE SITE, AND INSURE POSITIVE DRAINAGE IN ALL AREAS TO BE PLANTED.
- 3.) THE CONTRACTOR SHALL VERIFY ALL BUILDING SETBACK LINES, EASEMENT LINES, AND VISIBILITY LINES IN THE FIELD PRIOR TO CONSTRUCTION.
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- 5.) WRITTEN DIMENSIONS SHALL GOVERN OVER SCALED DIMENSIONS.
- 6.) PROVIDE POSITIVE DRAINAGE AWAY FROM ALL SITE FEATURES.

LEGEND:

- INDIAN GRASS
- BUSHY BLUESTEM
- BERMUDA GRASS SOD

PLANT SCHEDULE					
QTY.	COMMON NAME	BOTANICAL NAME	SIZE	CONT.	CONDITION / REMARKS
ORNAMENTAL GRASSES					
20	INDIAN GRASS	SORGHASTRUM NUTANS		5 GAL.	4' O.C.
19	BUSHY BLUESTEM	ANDROPOGON GLOMERATUS		5 GAL.	4' O.C.
TURF GRASS					
11,144 SF	COMMON BERMUDA	CYNODON DACTYLON		SOD	



NO.	DATE	REVISION	APPROV.
2	2/4/05	REMOVED PLANTED BEDS	
1	1/06/05	REVISED PATH LAYOUT	

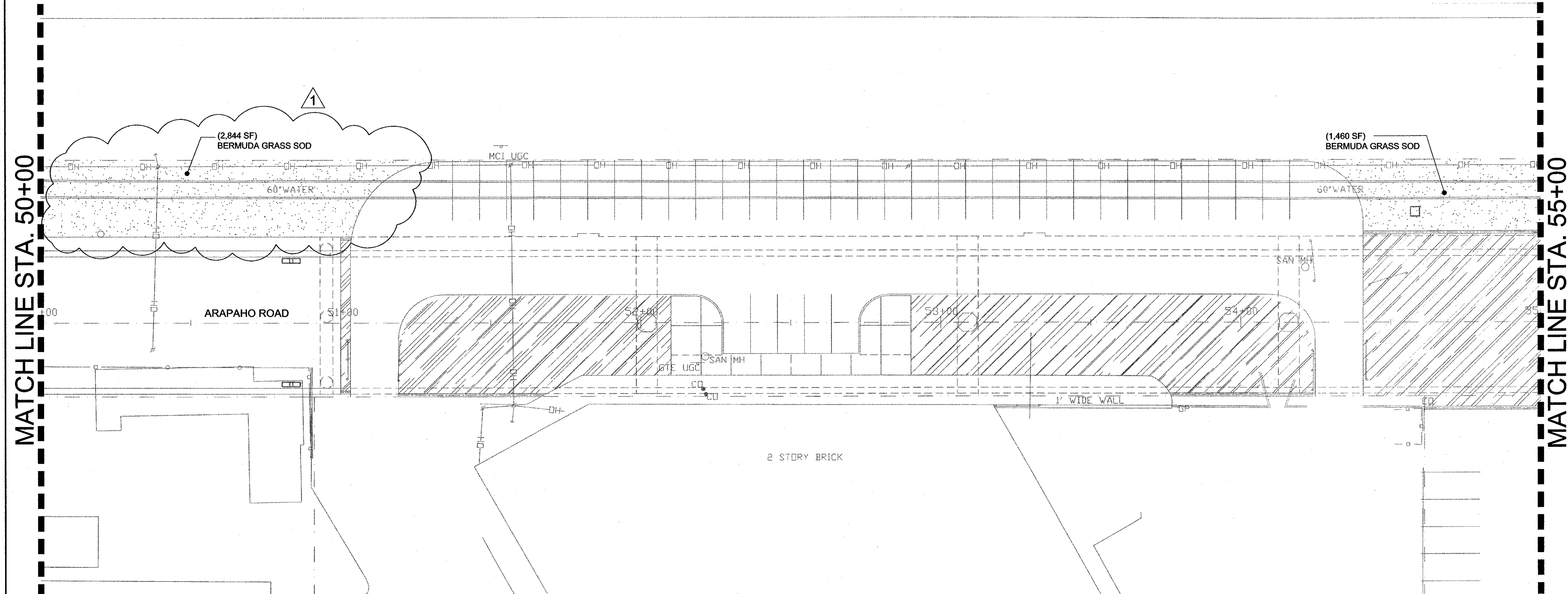
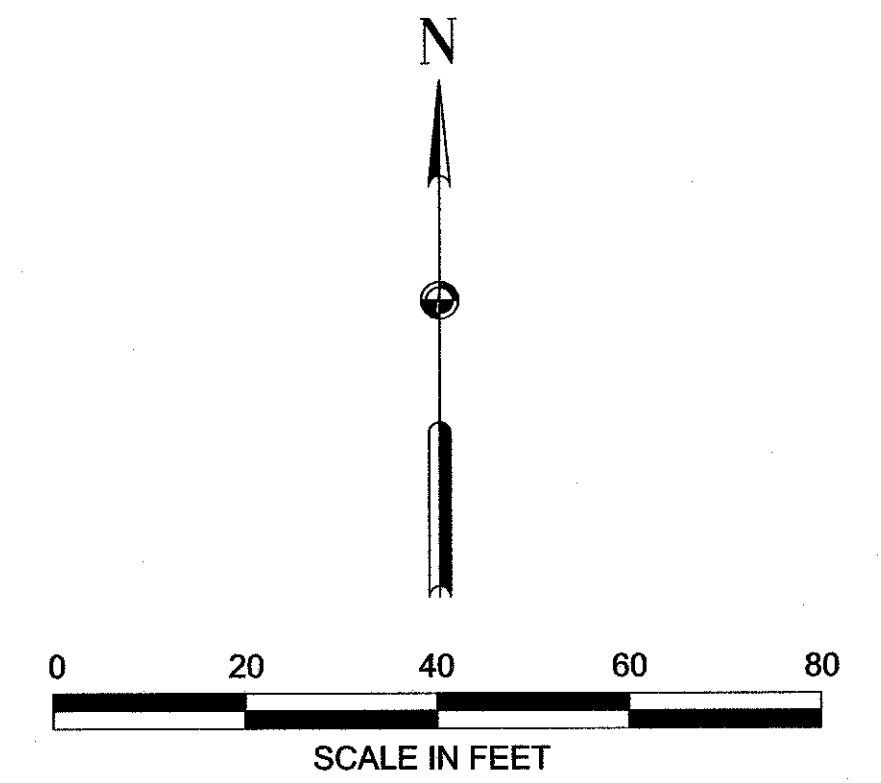
HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB Companies

ARAPAHO ROAD EXTENSION
SURVEYOR BOULEVARD TO ADDISON ROAD

STA 45+00 TO 50+00
LANDSCAPE PLAN

TOWN OF ADDISON, TEXAS

Design DAB	Drawn DAB	DATE	SCALE	PROJECT NO.	SHEET NO.
Check MP	Check MP	2/4/05	VARIES	25768	LP-04



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LEGEND:

BERMUDA GRASS SOD

1

PLANT SCHEDULE					
QTY.	COMMON NAME	BOTANICAL NAME	SIZE	CONT.	CONDITION / REMARKS
TURF GRASS					
4,304 SF	COMMON BERMUDA	CYNODON DACTYLON		SOD	



NO.	DATE	REVISION	APPROV.
1	2/4/05	REMOVED PLANTED BEDS	

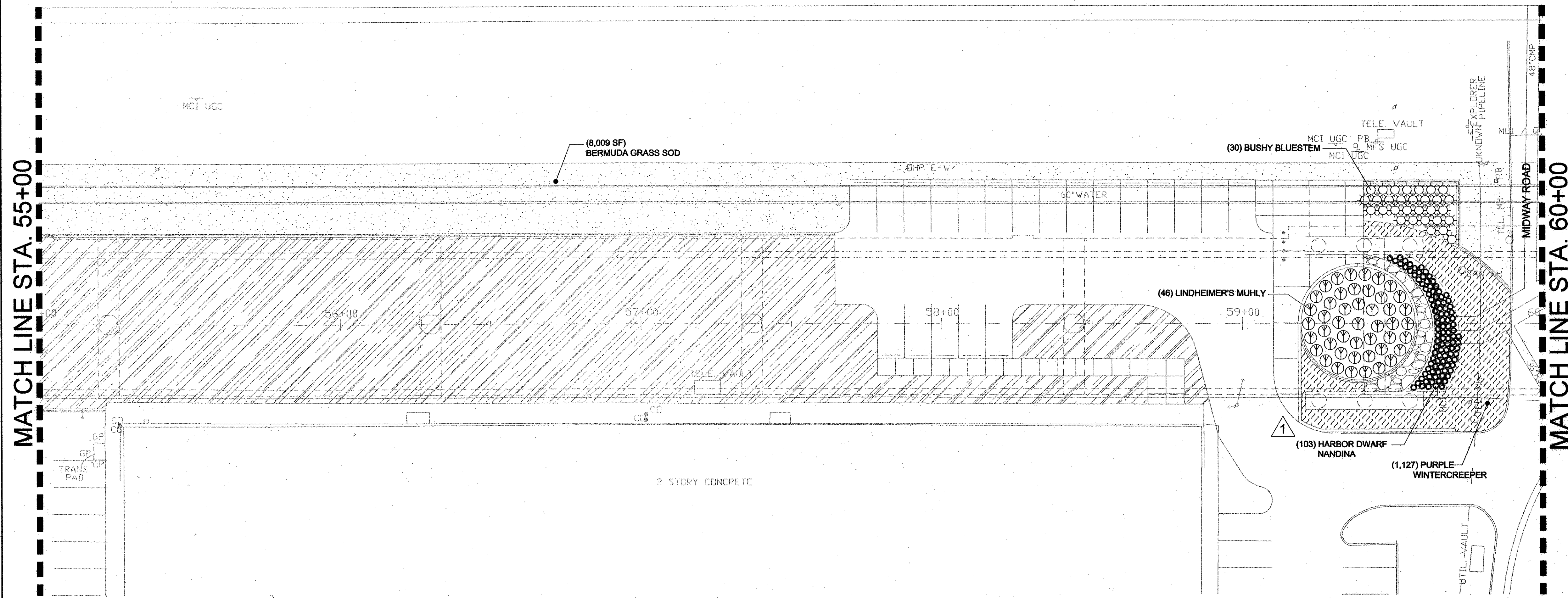
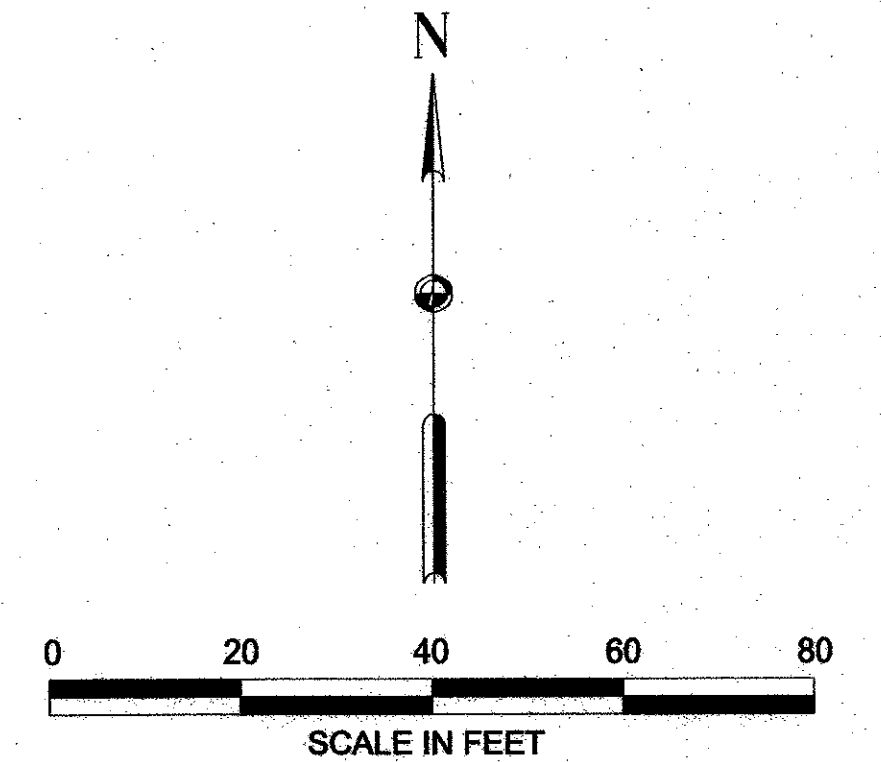
HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB Companies

ARAPAHO ROAD EXTENSION
SURVEYOR BOULEVARD TO ADDISON ROAD

STA 50+00 TO 55+00
LANDSCAPE PLAN

TOWN OF ADDISON, TEXAS

Design DAB	Drawn DAB	DATE	SCALE	PROJECT NO.	SHEET NO.
Check MP	Check MP	2/4/05	VARIES	25768	LP-05



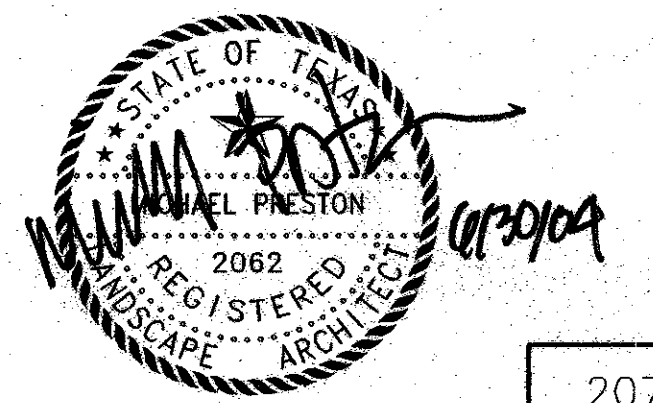
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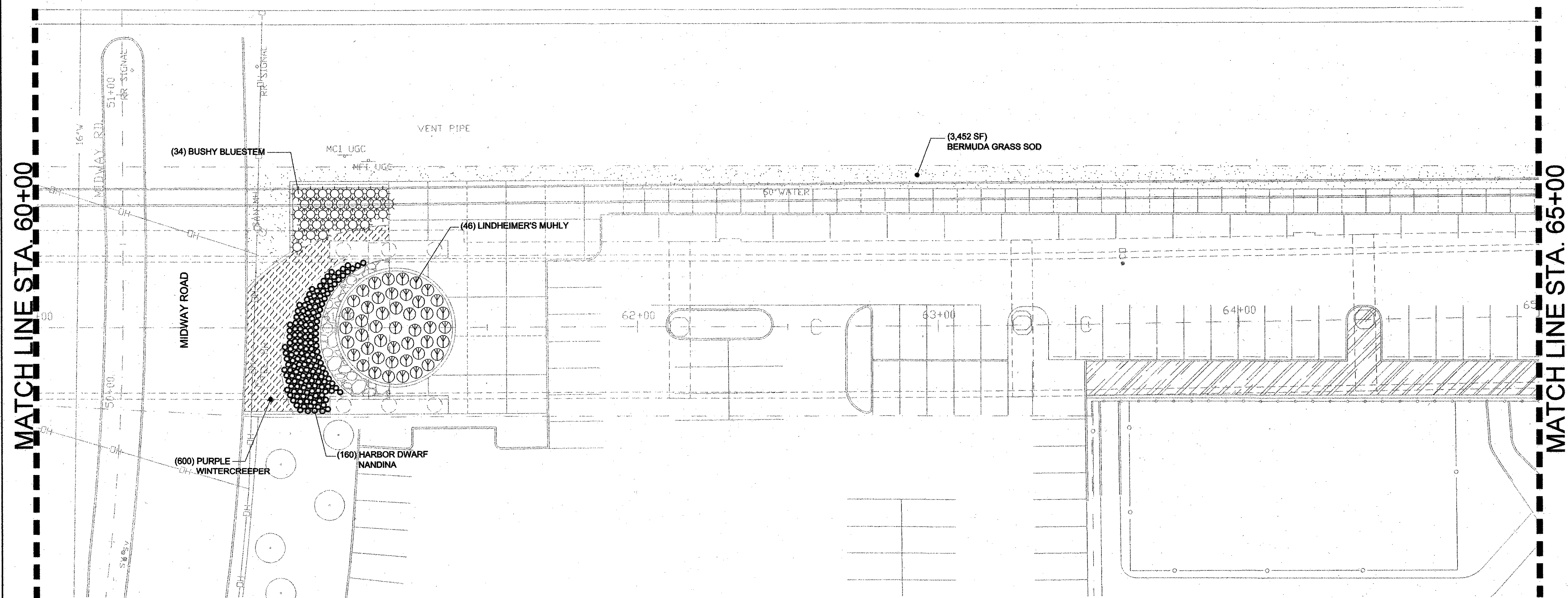
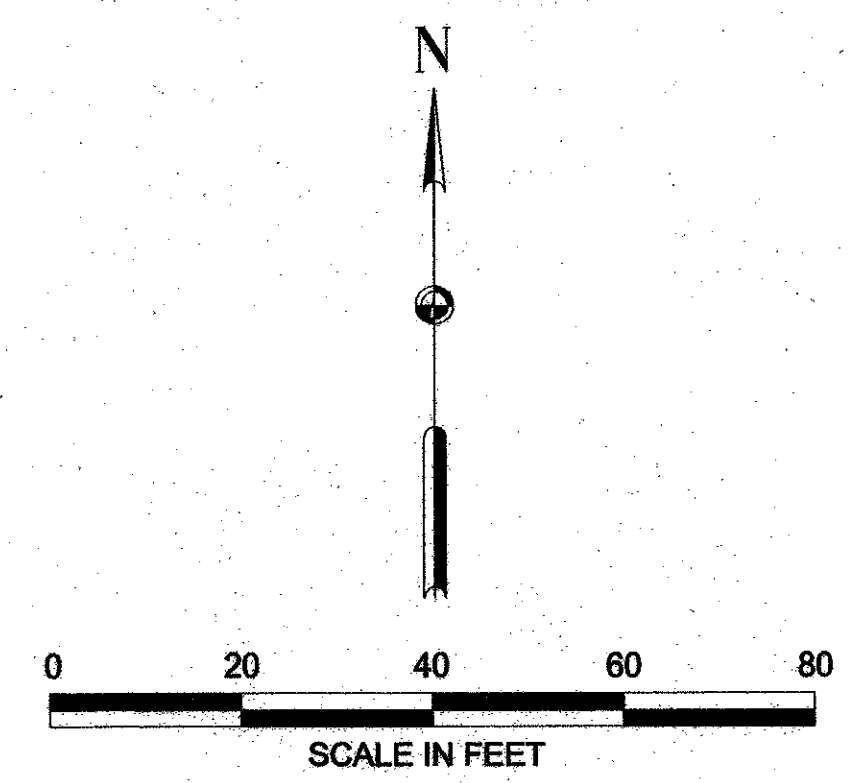
LEGEND:

- LINDHEIMER'S MUHLY
- BUSHY BLUESTEM
- HARBOR DWARF NANADINA
- PURPLE WINTERCREEPER
- BERMUDA GRASS SOD

PLANT SCHEDULE					
QTY.	COMMON NAME	BOTANICAL NAME	SIZE	CONT.	CONDITION / REMARKS
SHRUBS					
103	HARBOR DWARF NANDINA	NANDINA DOMESTICA 'HARBOR DWARF'		3 GAL.	FULL & SYMMETRICAL 2' O.C. TYPICAL
GROUNDCOVER					
1,127	PURPLE WINTERCREEPER	EUONYMUS FORTUNEI 'COLORATUS'		1 GAL.	16" O.C.
ORNAMENTAL GRASSES					
30	BUSHY BLUESTEM	ANDROPOGON GLOMERATUS		5 GAL.	4' O.C.
46	LINDHEIMER'S MUHLY	MUHLENBERGIA LINDHEIMERI		3 GAL.	4' O.C.
TURF GRASS					
8,009SF	COMMON BERMUDA	CYNODON DACTYLON		SOD	



NO.	DATE	REVISION	APPROV.
ARCHITECTS ENGINEERS PLANNERS The HNTB Companies			
ARAPAHO ROAD EXTENSION SURVEYOR BOULEVARD TO ADDISON ROAD			
STA 55+00 TO 60+00 LANDSCAPE PLAN			
TOWN OF ADDISON, TEXAS			
Design	DAB	Drawn	DAB
DATE	6/3/04	SCALE	VARIES
PROJECT NO.	25768	SHEET NO.	LP-06



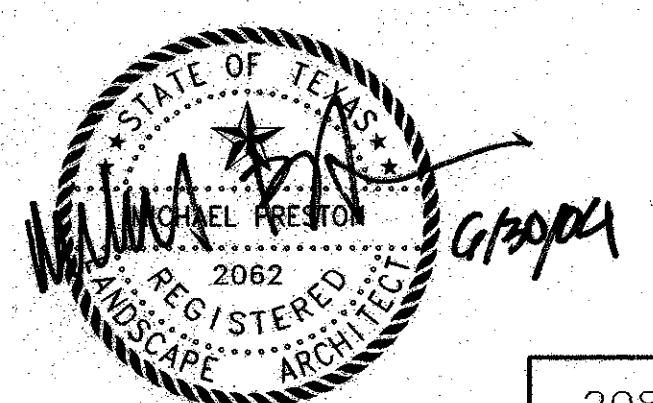
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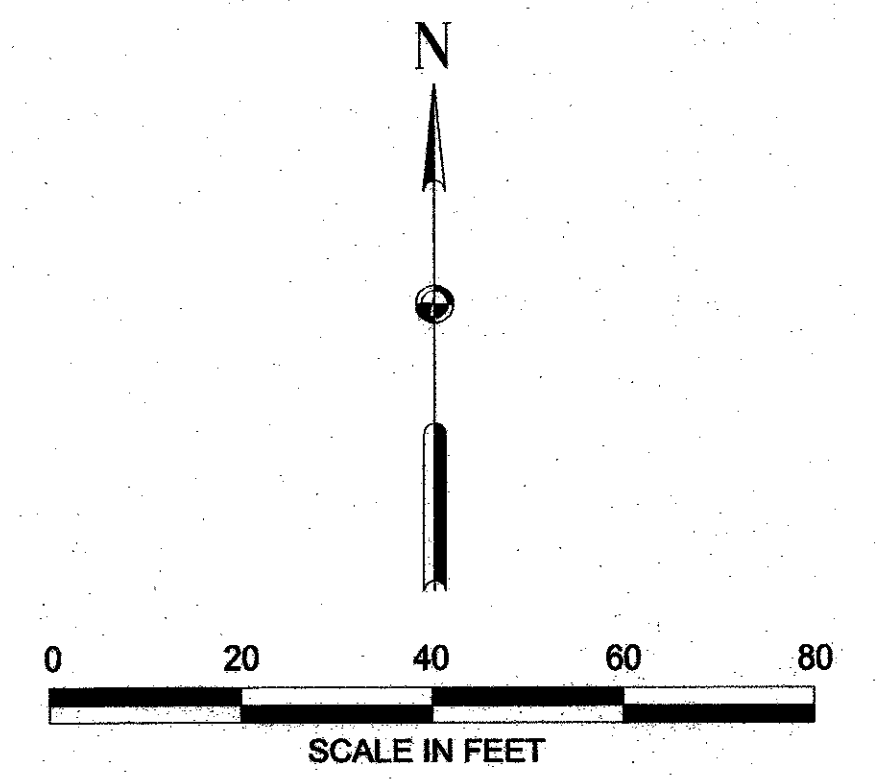
LEGEND:

- LINDHEIMER'S MUHLY
- BUSHY BLUESTEM
- HARBOR DWARF NANADINA
- PURPLE WINTERCREEPER
- BERMUDA GRASS SOD

PLANT SCHEDULE					
QTY.	COMMON NAME	BOTANICAL NAME	SIZE	CONT.	CONDITION / REMARKS
SHRUBS					
160	HARBOR DWARF NANDINA	NANDINA DOMESTICA 'HARBOR DWARF'		3 GAL.	FULL & SYMMETRICAL 2' O.C. TYPICAL
GROUNDCOVER					
600	PURPLE WINTERCREEPER	EUONYMUS FORTUNEI 'COLORATA'		1 GAL.	16" O.C.
ORNAMENTAL GRASSES					
34	BUSHY BLUESTEM	ANDROPOGON GLOMERATUS		5 GAL.	4' O.C.
46	LINDHEIMER'S MUHLY	MUHLENBERGIA LINDHEIMERI		3 GAL.	4' O.C.
TURF GRASS					
3,452	COMMON BERMUDA	CYNODON DACTYLON		SOD	

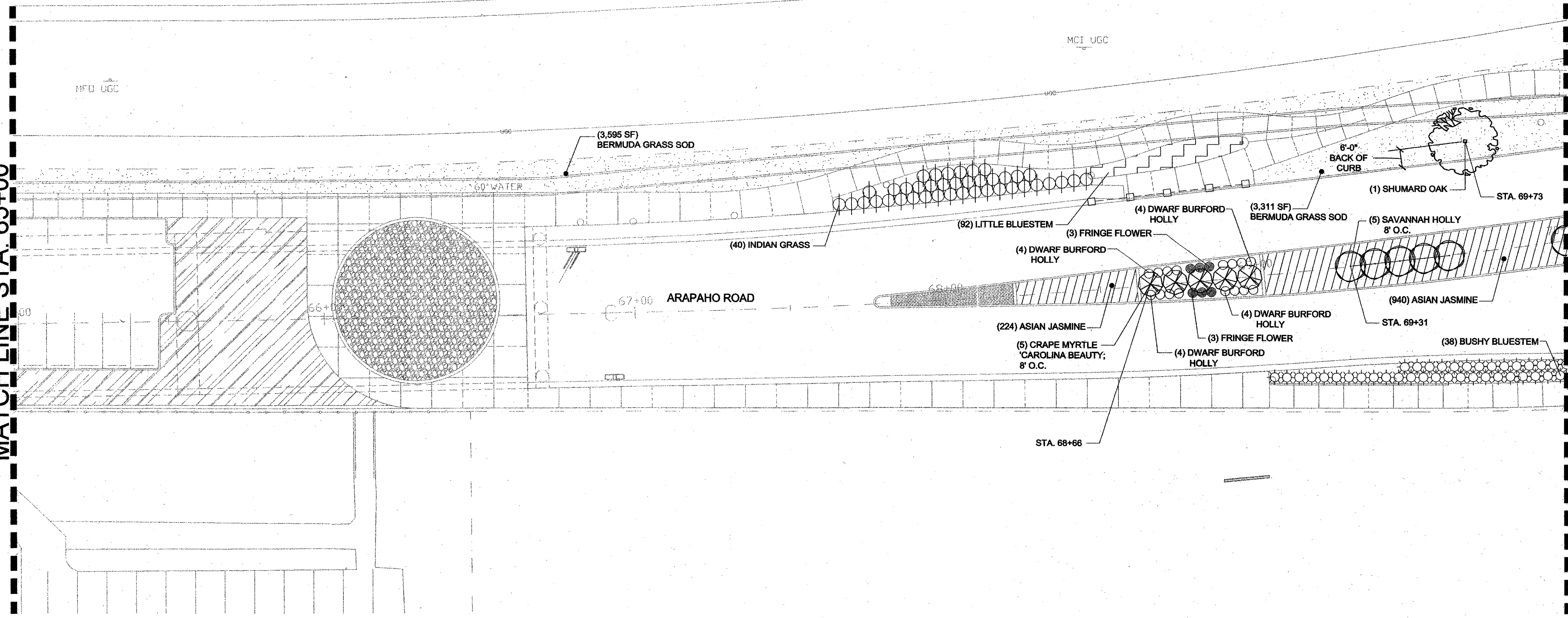


NO.		DATE	REVISION	APPROV.
ARCHITECTS ENGINEERS PLANNERS The HNTB Companies				
ARAPAHO ROAD EXTENSION SURVEYOR BOULEVARD TO ADDISON ROAD				
STA 60+00 TO 65+00 LANDSCAPE PLAN				
TOWN OF ADDISON, TEXAS				
Design	DAB	Drawn	DAB	DATE
Check	MP	Check	MP	6/3/04
SCALE	PROJECT NO.		SHEET NO.	
VARIES	25768		LP-07	



MATCH LINE STA. 65+00

MATCH LINE STA. 70+00

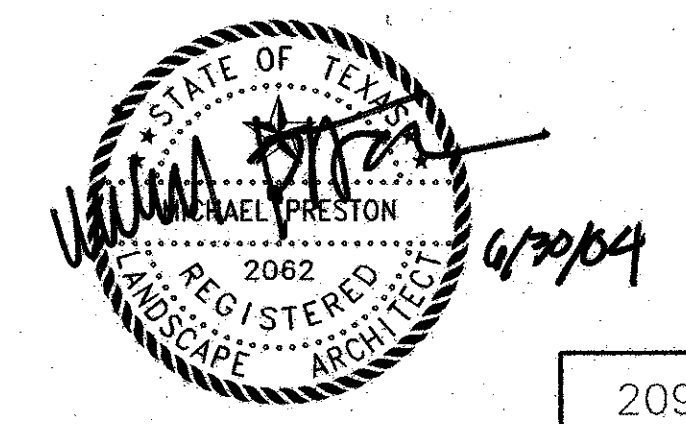


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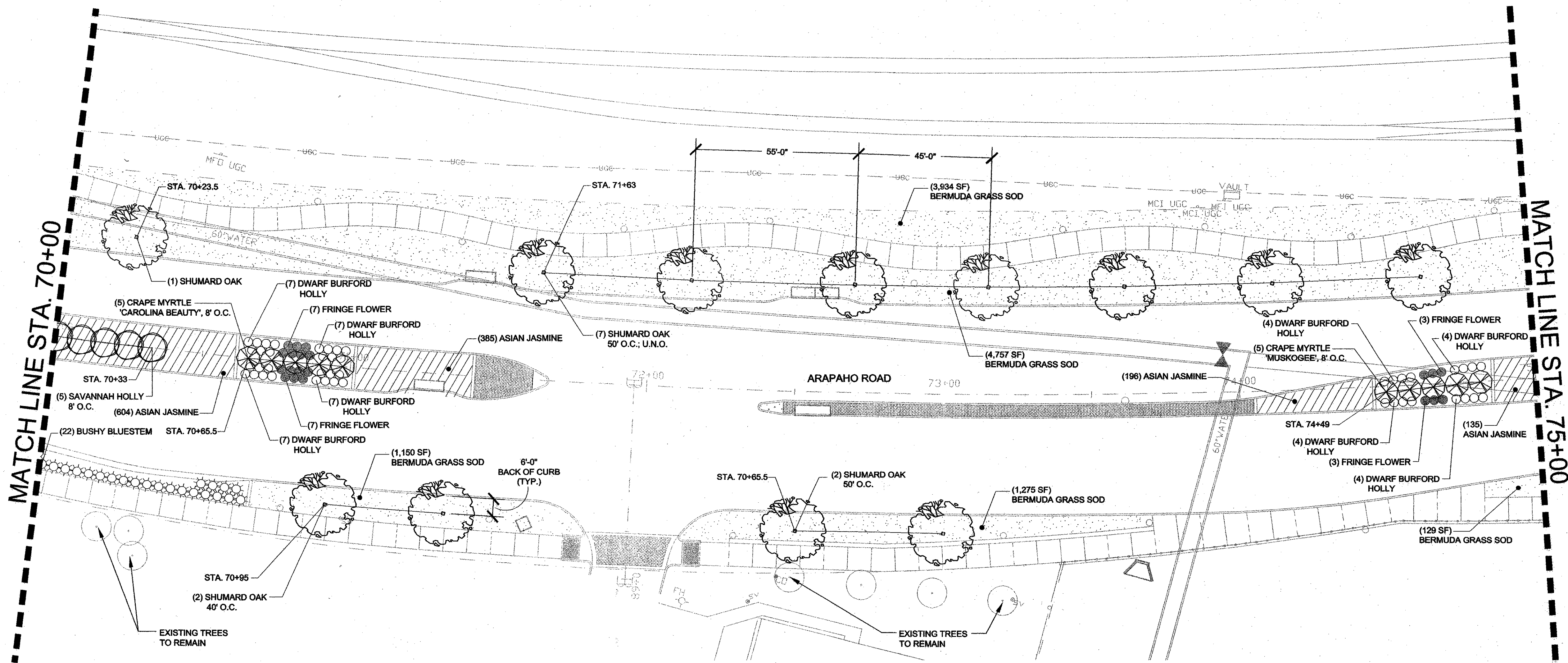
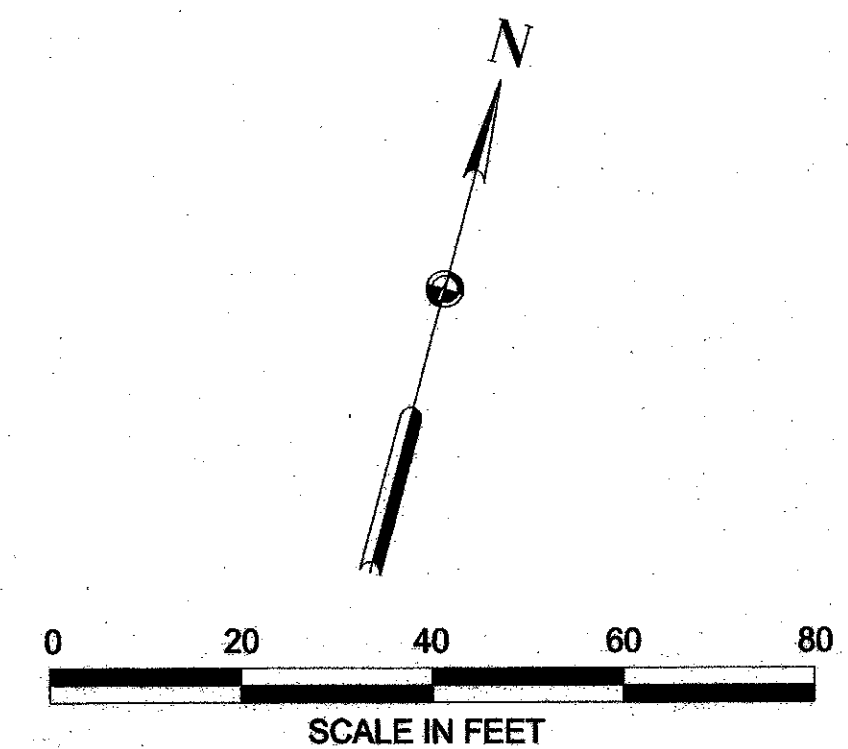
	SHUMARD OAK
	SAVANNAH HOLLY
	CRAPE MYRTLE
	INDIAN GRASS
	BUSHY BLUESTEM
	DWARF BURFORD HOLLY
	FRINGE FLOWER
	LITTLE BLUESTEM GRASS
	ASIAN JASMINE

PLANT SCHEDULE					
QTY.	COMMON NAME	BOTANICAL NAME	SIZE	CONT.	CONDITION / REMARKS
TREES					
1	SHUMARD OAK	QUERCUS SHUMARDII	4" CAL. 14'-15' HT.	100 GAL.	SPECIMEN, 6' BRANCHING HEIGHT, FULL & SYMMETRICAL
5	SAVANNAH HOLLY	ILEX X ATTENUATA 'SAVANNAH'	3" CAL. 8'-10' HT.	45 GAL.	SPECIMEN, FULL & SYMMETRICAL
5	CRAPE MYRTLE	LAGERSTROEMIA INDICA 'CAROLINA BEAUTY'	6'-8' HT.	30 GAL.	SPECIMEN, MULTI-STEM, 4-6 HEAVY CANES, TREE FORM, FULL & SYMMETRICAL
SHRUBS					
16	DWARF BURFORD HOLLY	ILEX CORNUTA BURFORDII 'PYGMY'		5 GAL.	FULL & SYMMETRICAL 3' O.C. TYPICAL
6	FRINGE FLOWER	LOROPETALUM CHINENSIS RUBRUM 'BURGUNDY'		5 GAL.	FULL & SYMMETRICAL 3' O.C. TYPICAL
GROUND COVER					
1,164	ASIAN JASMINE	TRACHELOSPERMUM ASIATICUM		1 GAL.	16" O.C.
ORNAMENTAL GRASSES					
40	INDIAN GRASS	SORGHASTRUM NUTANS		5 GAL.	4' O.C.
38	BUSHY BLUESTEM	ANDROPOGON GLOMERATUS		5 GAL.	4' O.C.
92	LITTLE BLUESTEM	SCHIZACHYRIUM SCOPARIUM		3 GAL.	2' O.C.
TURF GRASS					
4,906 SF	BERMUDA GRASS	CYNODON DACTYLON		SOD	

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NO.	DATE	REVISION	APPROV.
HNTB ARCHITECTS ENGINEERS PLANNERS The HNTB Companies			
ARAPAHO ROAD EXTENSION			
SURVEYOR BOULEVARD TO ADDISON ROAD			
STA 65+00 TO 70+00 LANDSCAPE PLAN			
TOWN OF ADDISON, TEXAS			
Design	DAB	Drawn	DAB
DATE	6/3/04	SCALE	VARIABLES
PROJECT NO.	25768	SHEET NO.	LP-08
Check	MP	Check	MP



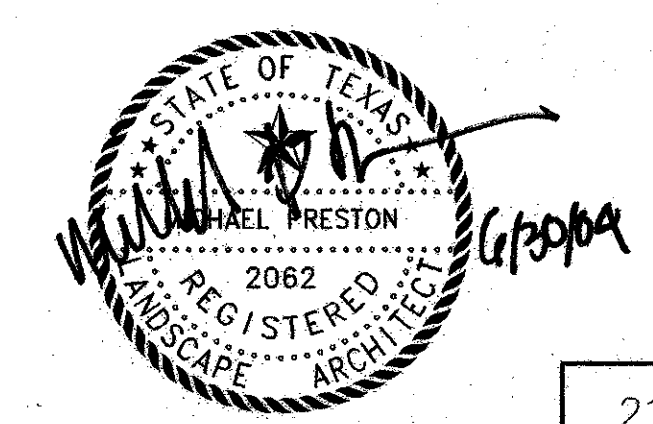
LEGEND:

- SHUMARD OAK
- SAVANNAH HOLLY
- CRAPE MYRTLE
- BUSHY BLUESTEM
- DWARF BURFORD HOLLY
- FRINGE FLOWER
- ASIAN JASMINE
- BERMUDA GRASS SOD
- EXISTING TREE

PLANT SCHEDULE					
QTY.	COMMON NAME	BOTANICAL NAME	SIZE	CONT.	CONDITION / REMARKS
TREES					
12	SHUMARD OAK	QUERCUS SHUMARDII	4" CAL. 14'-15' HT.	100 GAL.	SYMMETRICAL, 6' BRANCHING HEIGHT, FULL & SYMMETRICAL
5	SAVANNAH HOLLY	ILEX X ATTENUATA 'SAVANNAH'	3" CAL. 8'-10' HT.	45 GAL.	SPECIMEN, FULL & SYMMETRICAL
5	CRAPE MYRTLE 'CAROLINA BEAUTY'	LAGERSTROEMIA INDICA	6'-8' HT.	30 GAL.	SPECIMEN, MULTI-STEM, 4-6 HEAVY CANES, TREE FORM, FULL & SYMMETRICAL
5	CRAPE MYRTLE 'MUSKOGEE'	LAGERSTROEMIA INDICA	6'-8' HT.	30 GAL.	SPECIMEN, MULTI-STEM, 4-6 HEAVY CANES, TREE FORM, FULL & SYMMETRICAL
SHRUBS					
44	DWARF BURFORD HOLLY	ILEX CORNUTA BURFORDII 'PYGMY'		5 GAL.	FULL & SYMMETRICAL 3" O.C. TYPICAL
20	FRINGE FLOWER	LOROPETALUM CHINENSIS RUBRUM 'BURGUNDY'		5 GAL.	FULL & SYMMETRICAL 3" O.C. TYPICAL
GROUND COVER					
1,320	ASIAN JASMINE	TRACHELOSPERMUM ASIATICUM		1 GAL.	16" O.C.
ORNAMENTAL GRASSES					
22	BUSHY BLUESTEM	ANDROPOGON GLOMERATUS		5 GAL.	4' O.C.
TURF GRASS					
11,245	BERMUDA GRASS	CYNODON DACTYLON		SOD	

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NO.	DATE	REVISION	APPROV.

210

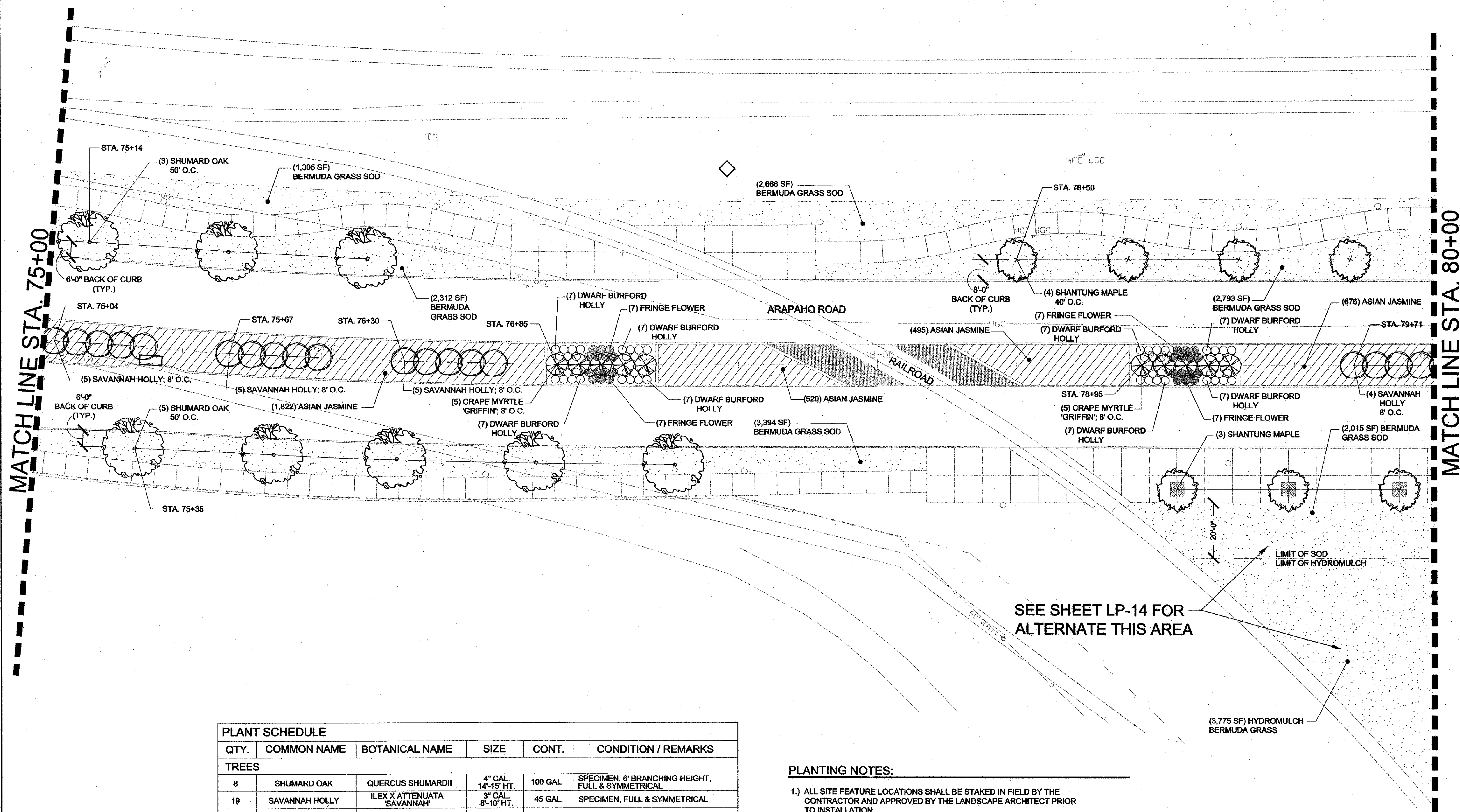
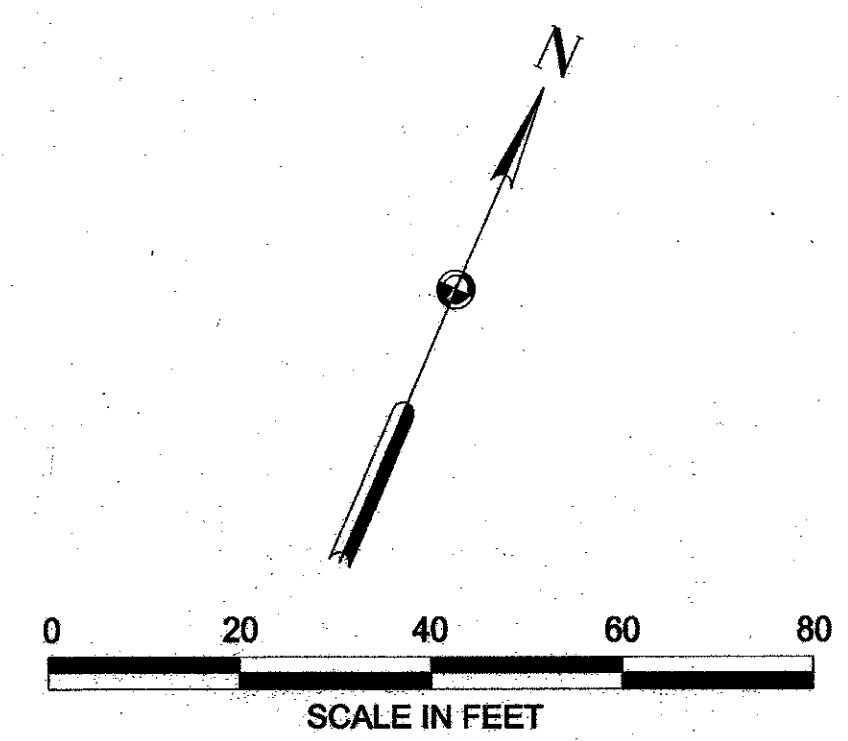
HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB Companies

ARAPAHO ROAD EXTENSION
SURVEYOR BOULEVARD TO ADDISON ROAD

STA 70+00 TO 75+00
LANDSCAPE PLAN

TOWN OF ADDISON, TEXAS

Design	DAB	Drawn	DAB	DATE	SCALE	PROJECT NO.	SHEET NO.
Check	MP	Check	MP	6/3/04	VARIABLES	25768	LP-09

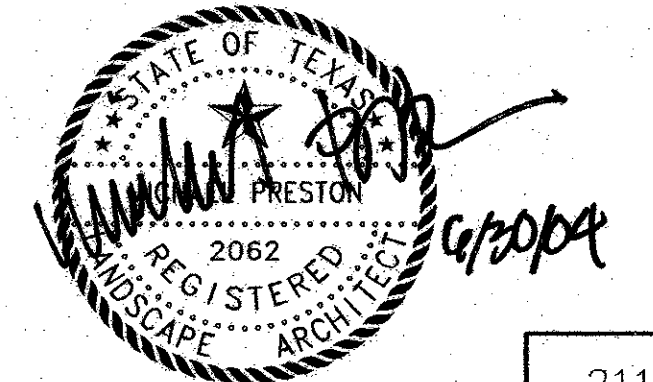


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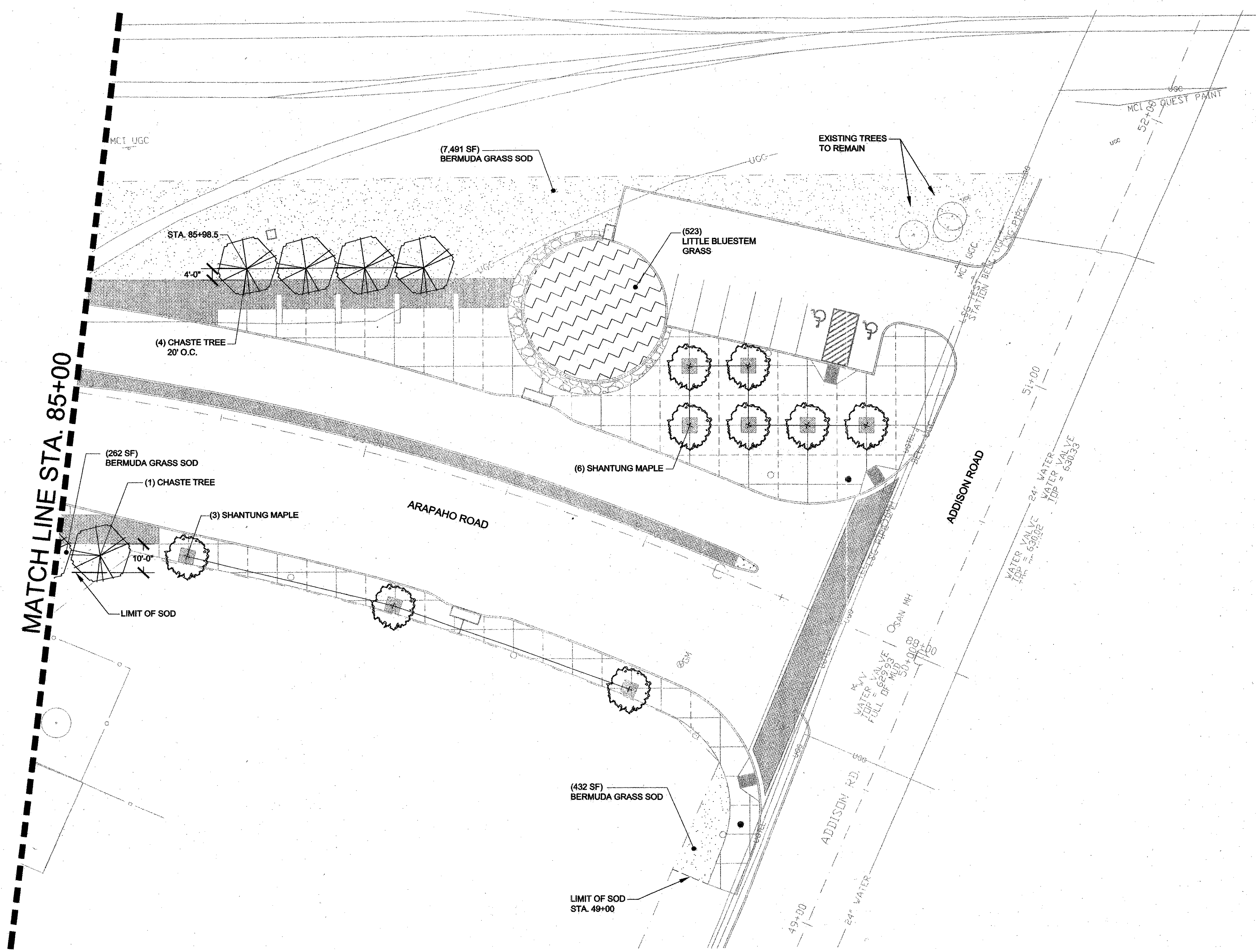
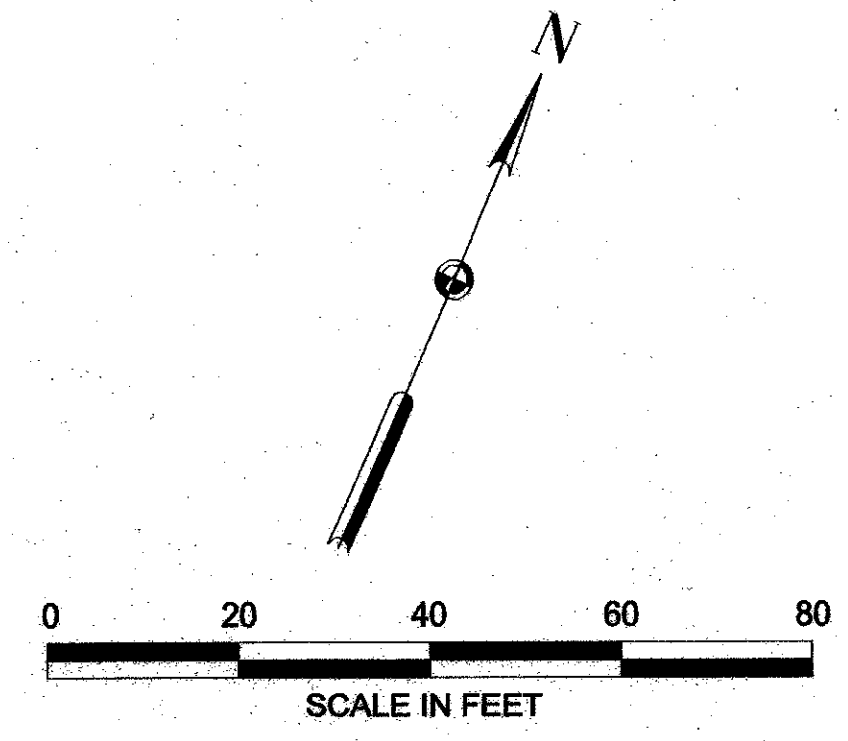
	SHUMARD OAK
	SHANTUNG MAPLE
	SAVANNAH HOLLY
	CRAPE MYRTLE
	DWARF BURFORD HOLLY
	FRINGE FLOWER
	ASIAN JASMINE
	BERMUDA GRASS SOD
	BERMUDA GRASS HYDROMULCH

PLANT SCHEDULE					
QTY.	COMMON NAME	BOTANICAL NAME	SIZE	CONT.	CONDITION / REMARKS
TREES					
8	SHUMARD OAK	QUERCUS SHUMARDII	4" CAL. 14'-15' HT.	100 GAL.	SPECIMEN, 6" BRANCHING HEIGHT, FULL & SYMMETRICAL
19	SAVANNAH HOLLY	ILEX X ATTENUATA 'SAVANNAH'	3" CAL. 8'-10' HT.	45 GAL.	SPECIMEN, FULL & SYMMETRICAL
10	CRAPE MYRTLE	LAGERSTROEMIA INDICA 'GRIFFIN'	6'-8' HT.	30 GAL.	MULTI-STEM, 4-6 HEAVY CANES, TREE FORM, FULL & SYMMETRICAL
7	SHANTUNG MAPLE	ACER TRUNCATUM	3" CAL. 14'-15' HT.	60 GAL.	SPECIMEN, 6" BRANCHING HEIGHT, FULL & SYMMETRICAL
SHRUBS					
56	DWARF BURFORD HOLLY	ILEX CORNUTA BURFORDII 'PYGMY'		5 GAL.	FULL & SYMMETRICAL 3' O.C. TYPICAL
28	FRINGE FLOWER	LOROPETALUM CHINENSIS RUBRUM 'BURGUNDY'		5 GAL.	FULL & SYMMETRICAL 3' O.C. TYPICAL
GROUNDCOVER					
3,513	ASIAN JASMINE	TRACHELOSPERMUM ASIATICUM		1 GAL.	16" O.C.
TURF GRASS					
12,173	COMMON BERMUDA	CYNODON DACTYLON		SOD	
3,775	COMMON BERMUDA	CYNODON DACTYLON		HYDRO-MULCH	

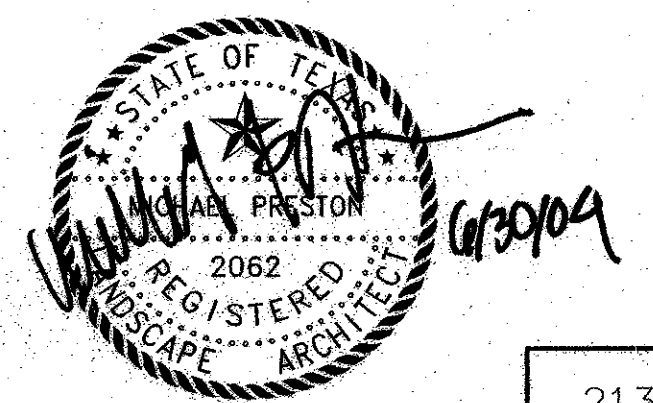
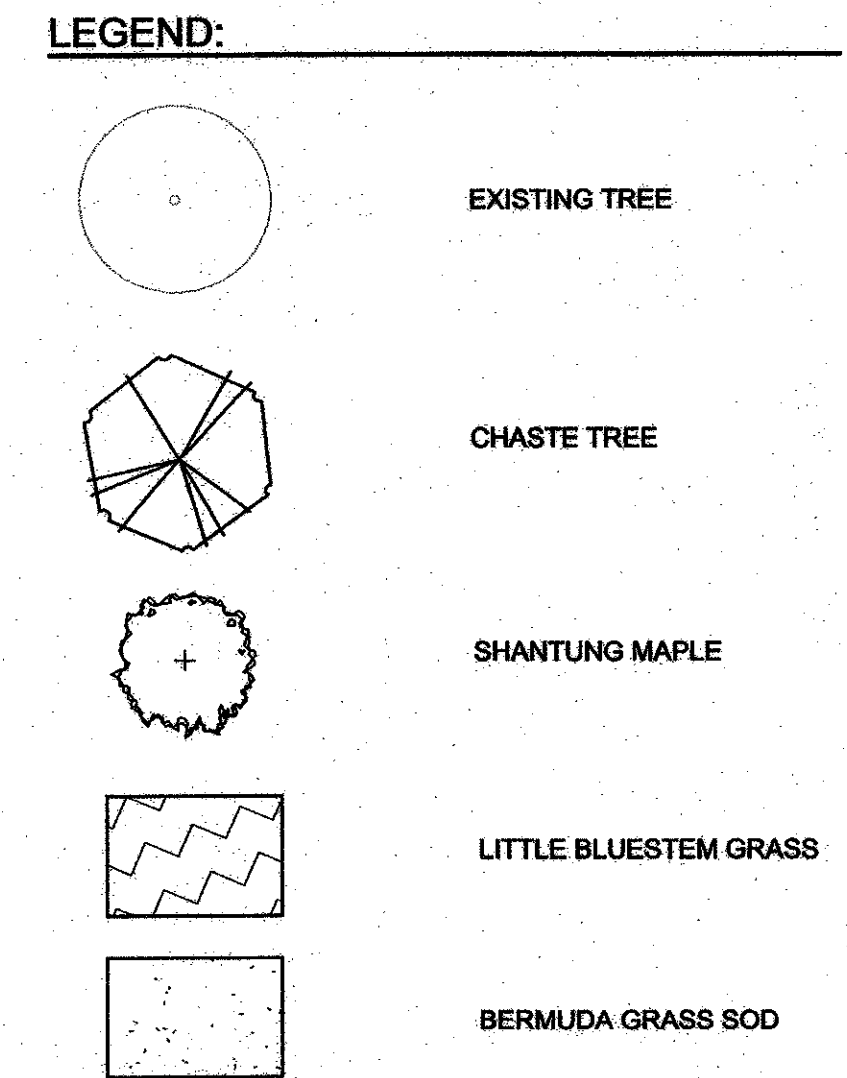
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NO.	DATE	REVISION	APPROV.
HNTB ARCHITECTS ENGINEERS PLANNERS The HNTB Companies			
ARAPAHO ROAD EXTENSION			
SURVEYOR BOULEVARD TO ADDISON ROAD			
STA 75+00 TO 80+00 LANDSCAPE PLAN			
TOWN OF ADDISON, TEXAS			
Design DAB	Drawn DAB	DATE	SCALE
Check MP	Check MP	6/3/04	VARIES
PROJECT NO.	25768	SHEET NO.	LP-10



- PLANTING NOTES:**
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 - 4) THE CONTRACTOR SHALL VERIFY LOCATIONS OF ALL UTILITIES IN THE FIELD PRIOR TO COMMENCEMENT OF WORK. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE OCCURRING TO UTILITIES AS A RESULT OF CONSTRUCTION PROCESSES THROUGHOUT THE PROJECT DURATION.
 - 5) WRITTEN DIMENSIONS SHALL GOVERN OVER SCALED DIMENSIONS.
 - 6) PROVIDE POSITIVE DRAINAGE AWAY FROM ALL SITE FEATURES.



PLANT SCHEDULE					
QTY.	COMMON NAME	BOTANICAL NAME	SIZE	CONT.	CONDITION / REMARKS
TREES					
5	CHASTE TREE	VITEX AGNUS-CASTUS	8'-10' HT.	45 GAL	SPECIMEN, MULTI-STEM, 3-5 HEAVY CANES, FULL & SYMMETRICAL
9	SHANTUNG MAPLE	ACER TRUNCATUM	3" CAL. 14'-15' HT.	60 GAL	SPECIMEN, 6' BRANCHING HEIGHT, FULL & SYMMETRICAL
ORNAMENTAL GRASSES					
523	LITTLE BLUESTEM	SCHIZACHYRIUM SCOPARIUM		3 GAL.	2' O.C.
TURF GRASS					
8,185 SF	BERMUDA GRASS	CYNODON DACTYLON		SOD	

NO.	DATE	REVISION	APPROV.

HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB Companies

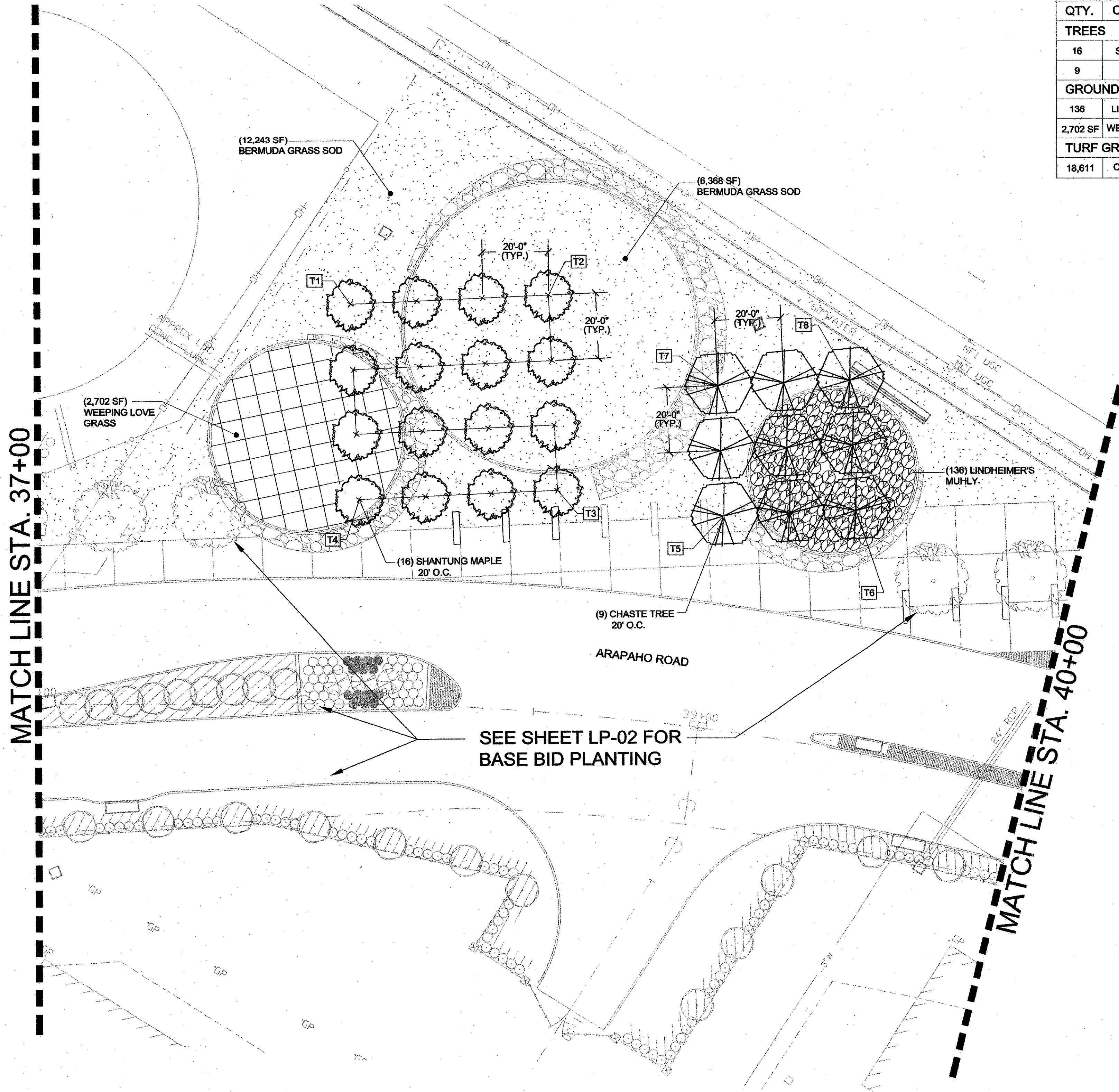
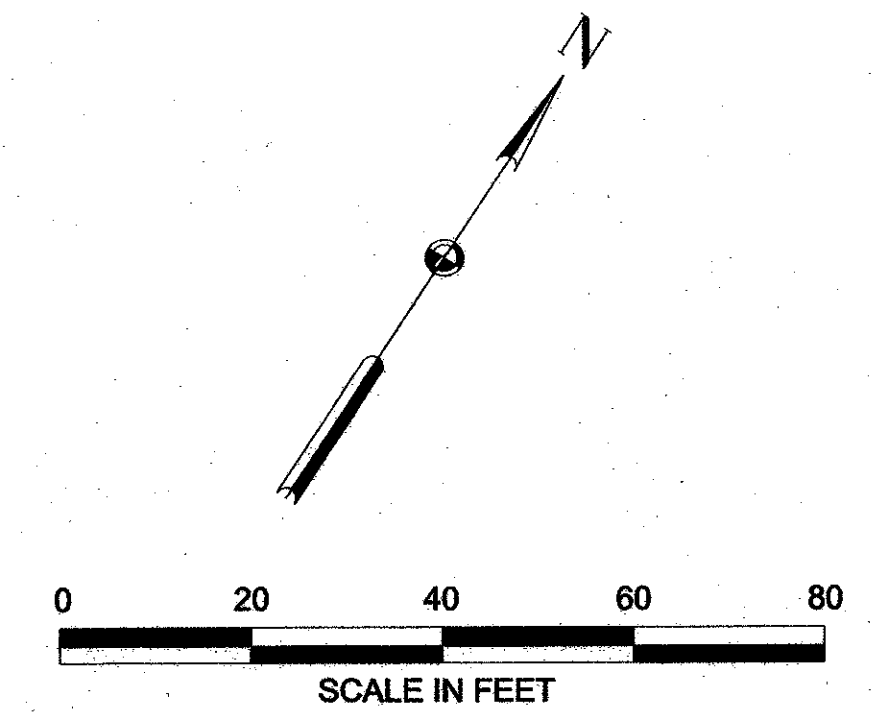
ARAPAHO ROAD EXTENSION
SURVEYOR BOULEVARD TO ADDISON ROAD

STA 85+00 TO 87+88
LANDSCAPE PLAN

TOWN OF ADDISON, TEXAS

Design DAB	Drawn DAB	DATE	SCALE	PROJECT NO.	SHEET NO.
Check MP	Check MP	6/3/04	VARIES	25768	LP-12

PLANT SCHEDULE					
QTY.	COMMON NAME	BOTANICAL NAME	SIZE	CONT.	CONDITION / REMARKS
TREES					
16	SHANTUNG MAPLE	ACER TRUNCATUM	3" CAL. 14'-15' HT.	60 GAL.	SPECIMEN, 6" BRANCHING HEIGHT, FULL & SYMMETRICAL
9	CHASTE TREE	VITEX AGNUS-CASTUS	8'-10' HT.	45 GAL.	SPECIMEN, MULTI-STEM, 3-5 HEAVY CANES, FULL & SYMMETRICAL
GROUNDCOVER					
136	LINDHEIMER'S MUHLY	MUHLENBERGIA LINDHEIMERI		3 GAL.	4' O.C.
2,702 SF	WEeping LOVE GRASS	ERAGROSTIS CURVULA		SEED	HYDROMULCH
TURF GRASS					
18,611	COMMON BERMUDA	CYNODON DACTYLON		SOD	



PLANTING NOTES:

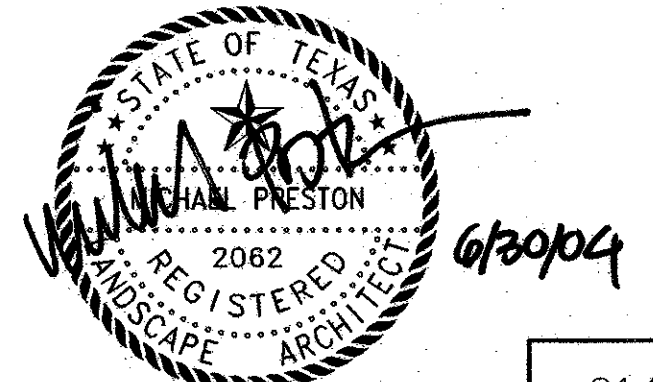
- 1) ALL SITE FEATURE LOCATIONS SHALL BE STAKED IN FIELD BY THE CONTRACTOR AND APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
- 2) FINE GRADING SHALL BE PERFORMED IN ALL AREAS TO BE PLANTED. FINE GRADING SHALL INCLUDE THE REMOVAL OF DEBRIS, ROCKS, ETC. FROM THE SITE, AND INSURE POSITIVE DRAINAGE IN ALL AREAS TO BE PLANTED.
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- 5) WRITTEN DIMENSIONS SHALL GOVERN OVER SCALED DIMENSIONS.
- 6) PROVIDE POSITIVE DRAINAGE AWAY FROM ALL SITE FEATURES.

TREE COORDINATE TABLE

T1	N 10084.07 E 8960.45	T8	N 10113.72 E 7123.21
T2	N 10118.79 E 7009.38	T7	N 10123.20 E 7067.44
T3	N 10089.85 E 7044.10	T6	N 10146.34 E 7100.07
T4	N 10035.13 E 6995.16		
T5	N 10090.57 E 7090.59		

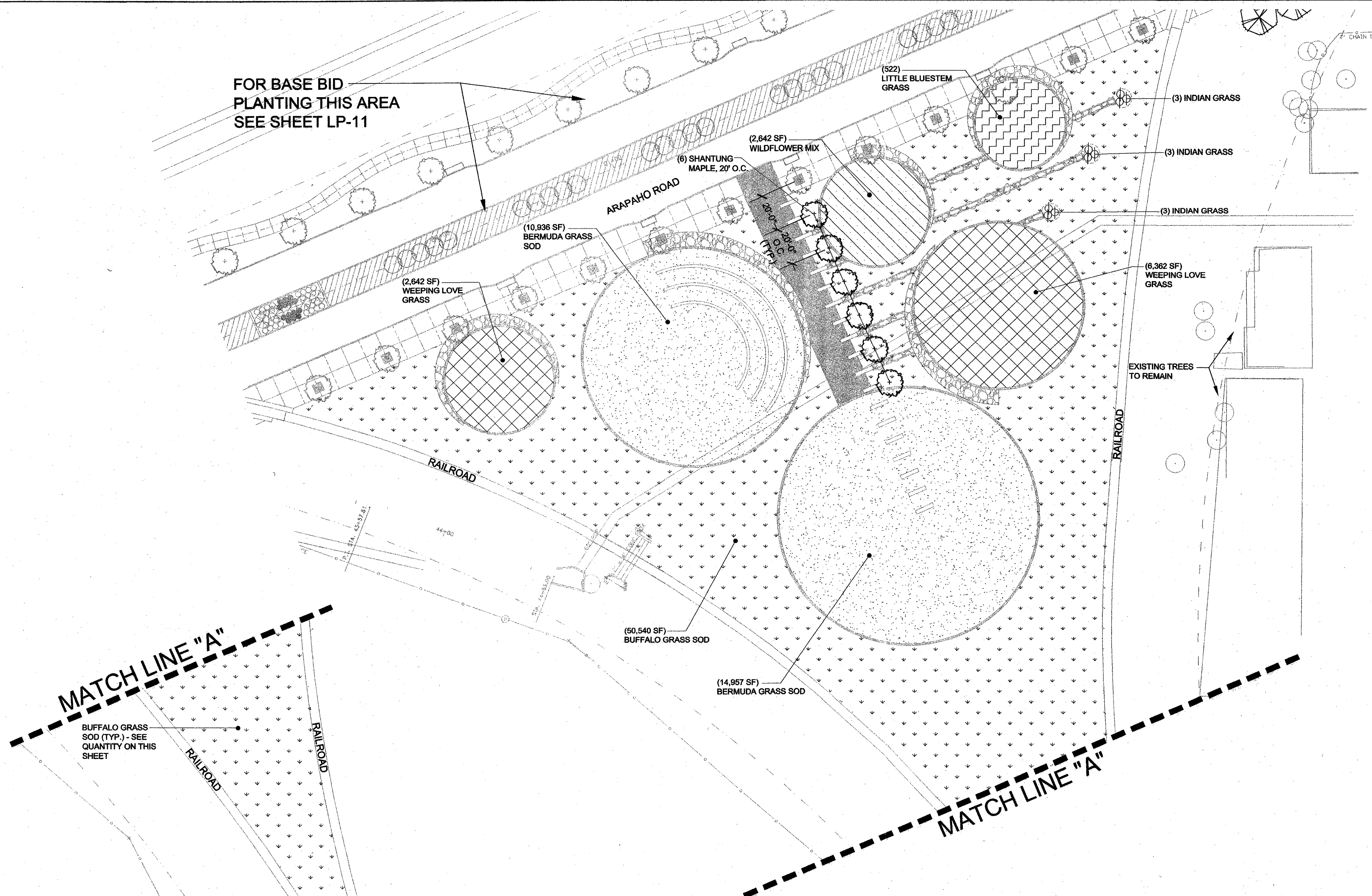
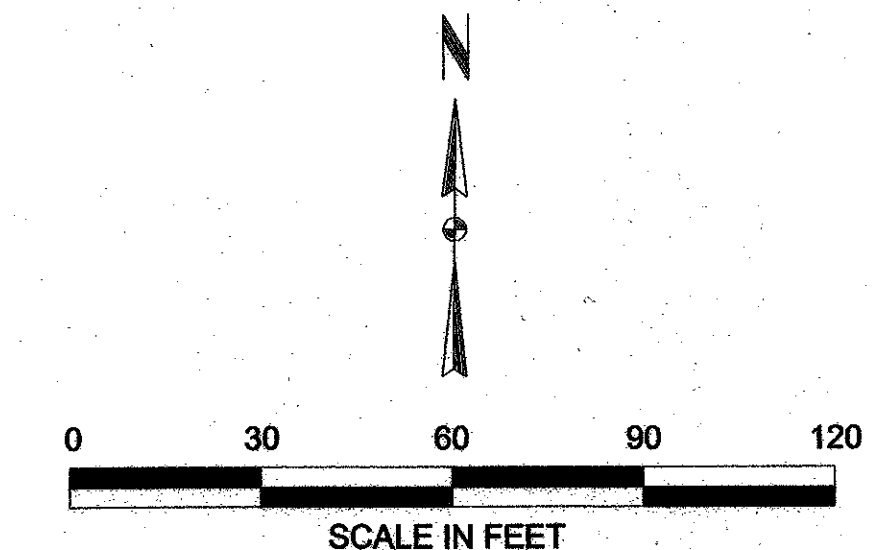
LEGEND:

- CHASTE TREE
- SHANTUNG MAPLE
- LINDHEIMER'S MUHLY
- WEeping LOVE GRASS
- BERMUDA GRASS SOD



NO.		DATE	REVISION	APPROV.
HNTB ARCHITECTS ENGINEERS PLANNERS The HNTB Companies				
ARAPAHO ROAD EXTENSION				
SURVEYOR BOULEVARD TO ADDISON ROAD				
ALTERNATE 1 PARK 'A' LANDSCAPE PLAN				
TOWN OF ADDISON, TEXAS				
Design	DAB	Drawn	DAB	DATE
Check	MP	Check	MP	6/3/04
SCALE	PROJECT NO.		SHEET NO.	
VARIABLES	25768		LP-13	

FOR BASE BID
PLANTING THIS AREA
SEE SHEET LP-11



LEGEND:

- EXISTING TREE
- SHANTUNG MAPLE
- INDIAN GRASS
- WEEPING LOVE GRASS
- LITTLE BLUESTEM GRASS
- WILDFLOWER MIX
- BERMUDA GRASS SOD
- BUFFALO GRASS SOD

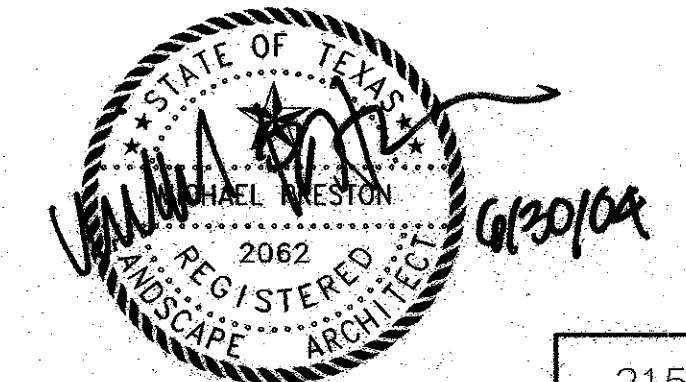
MATCH LINE "A"

MATCH LINE "A"

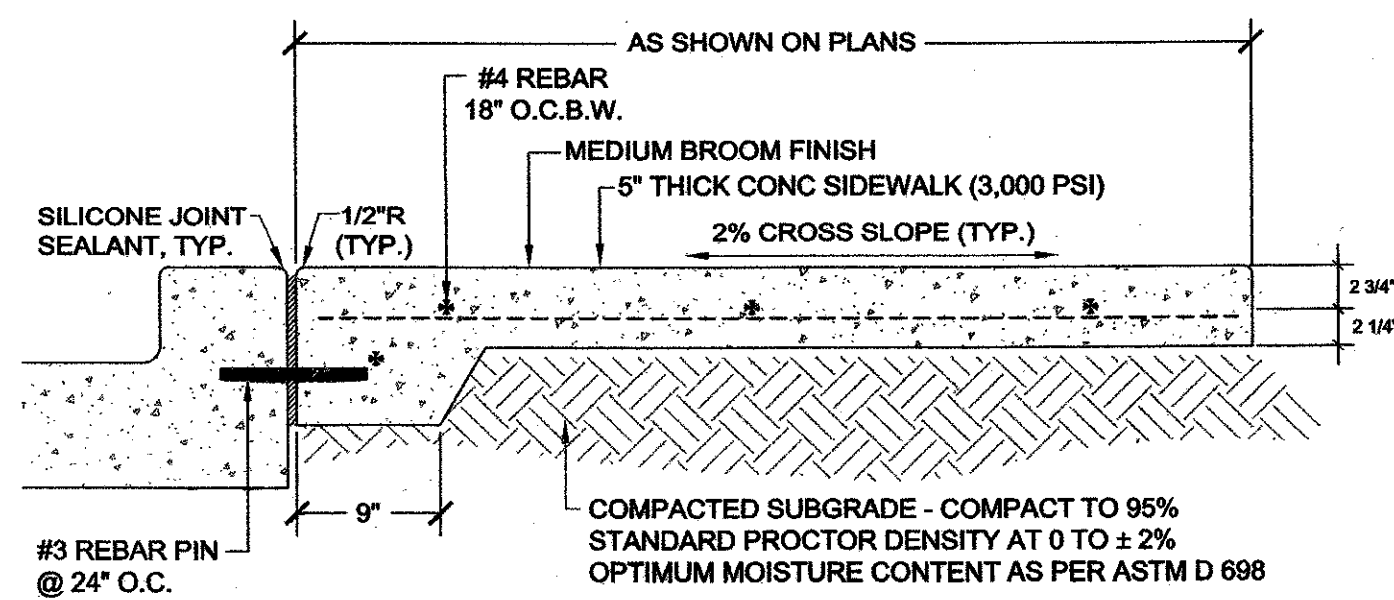
PLANT SCHEDULE					
QTY.	COMMON NAME	BOTANICAL NAME	SIZE	CONT.	CONDITION / REMARKS
TREES					
6	SHANTUNG MAPLE	ACER TRUNCATUM	3" CAL. 14'-15' HT.	B&B	6' BRANCHING HEIGHT, FULL & SYMMETRICAL
GROUND COVER					
2,642 SF	WILDFLOWER MIX			SEED	SEED @ 1/4 LB. PER 500 SQ. FT.
ORNAMENTAL GRASSES					
9	INDIAN GRASS	SORGHASTRUM NUTANS		5 GAL.	4' O.C.
522	LITTLE BLUESTEM	SCHIZACHYRIUM SCOPARIUM		3 GAL.	2' O.C.
9,204	WEEPING LOVE GRASS	ERAGROSTIS CURVULA		SEED	HYDROMULCH
TURF GRASS					
50,540 SF	BUFFALO GRASS 609	BUCHLOE DACTYLOIDES '609'		SOD	
25,893 SF	BERMUDA GRASS	CYNODON DACTYLON		SOD	

PLANNING NOTES:

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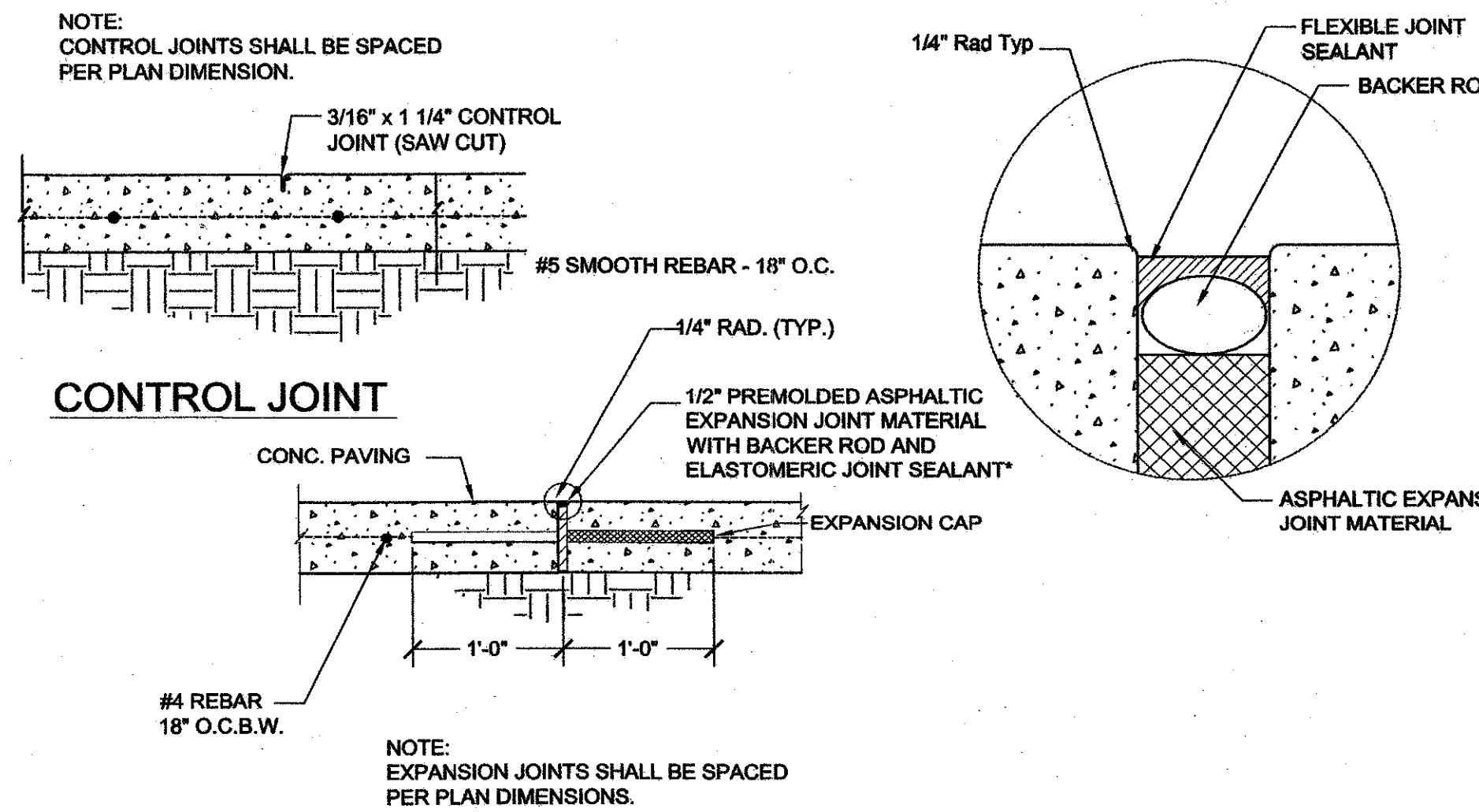
NO.	DATE	REVISION	APPROV.
HNTB ARCHITECTS ENGINEERS PLANNERS The HNTB Companies			
ARAPAHO ROAD EXTENSION			
SURVEYOR BOULEVARD TO ADDISON ROAD			
ALTERNATE 1 PARK "B" LANDSCAPE PLAN			
TOWN OF ADDISON, TEXAS			
Design DAB	Drawn DAB	DATE 6/3/04	SCALE VARIES
Check MP	Check MP	PROJECT NO. 25768	SHEET NO. LP-14



A CONCRETE PAVING/WALK - SECTION

DT-01

SCALE: 1"=1'-0"



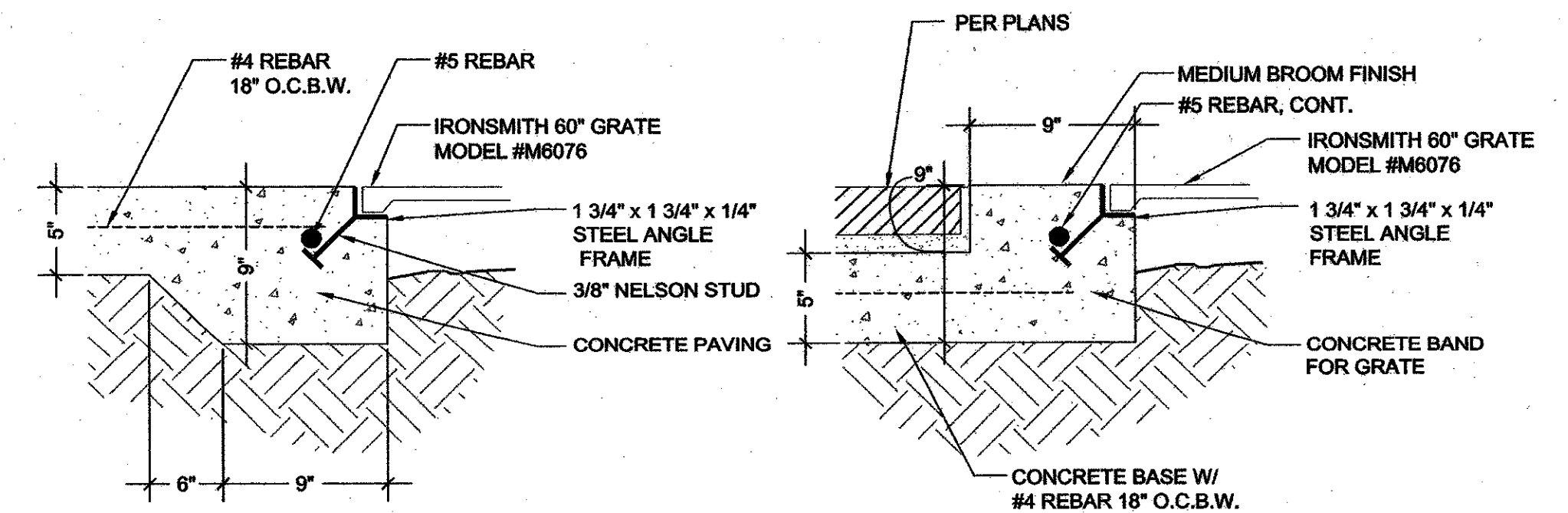
CONTROL JOINT

EXPANSION JOINT

B JOINT DETAILS

DT-01

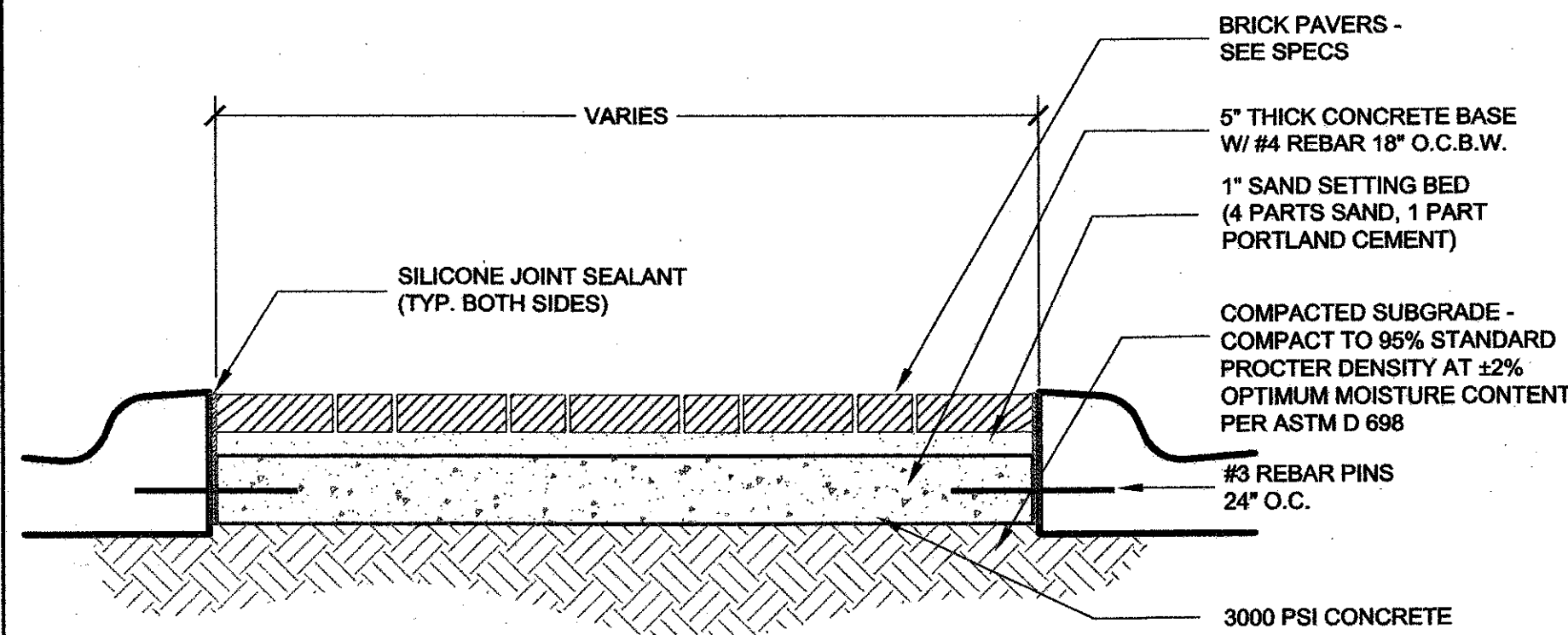
SCALE: 1"=1'-0"



C TREE GRATE DETAIL

DT-01

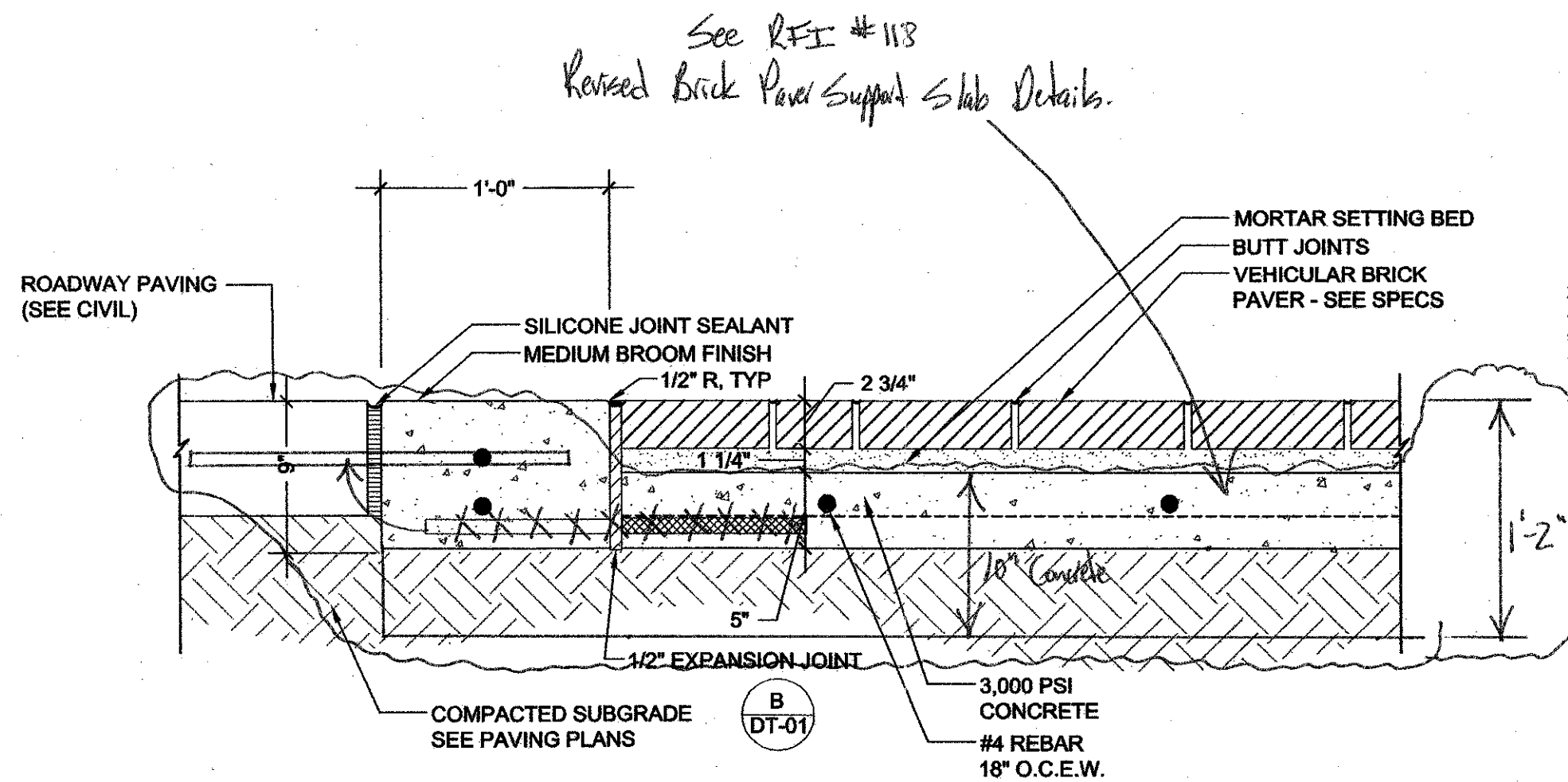
SCALE: 1 1/2"=1'-0"



D PAVERS IN MEDIAN

DT-01

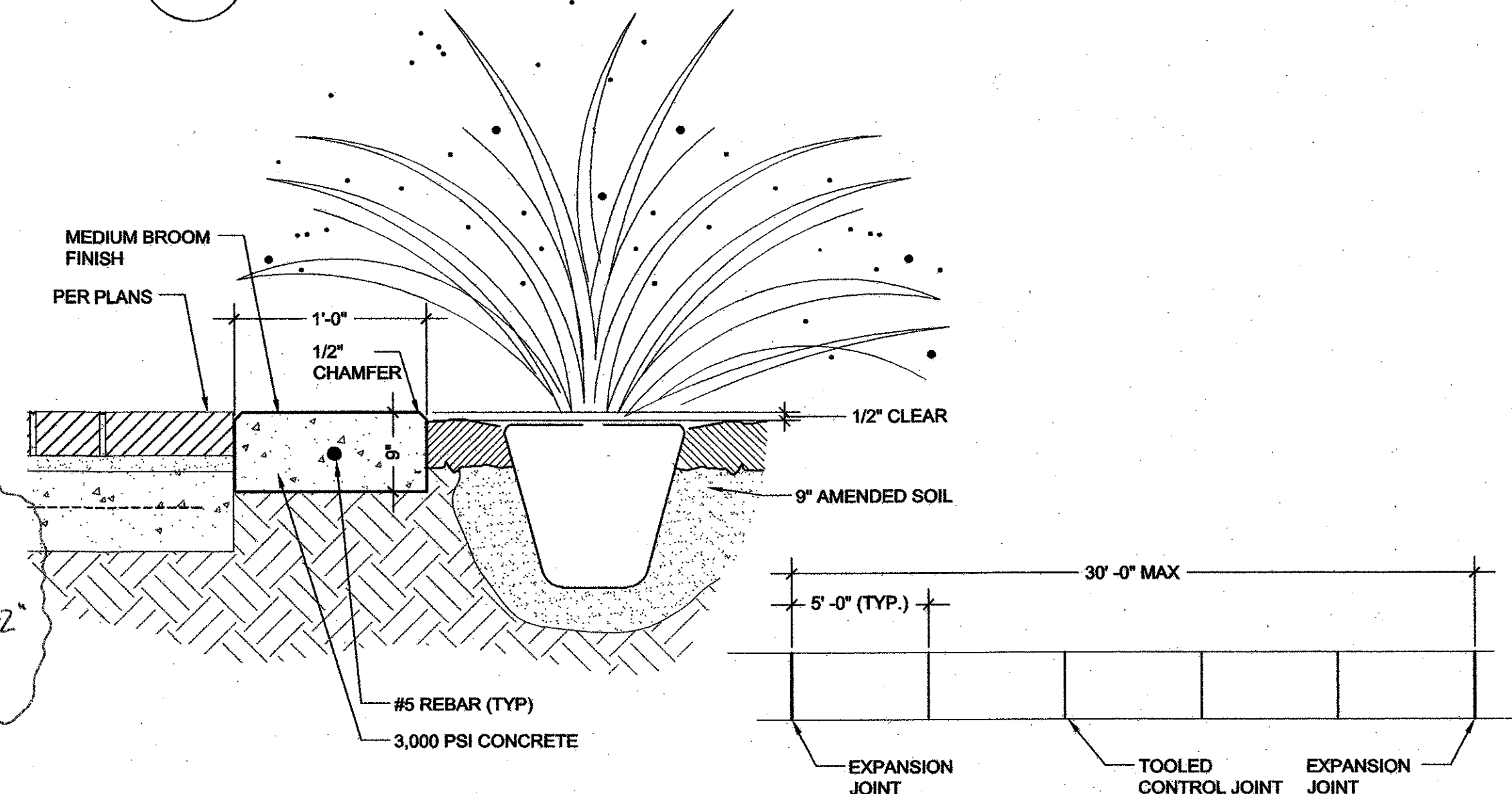
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E PAVER CROSSWALK

DT-01

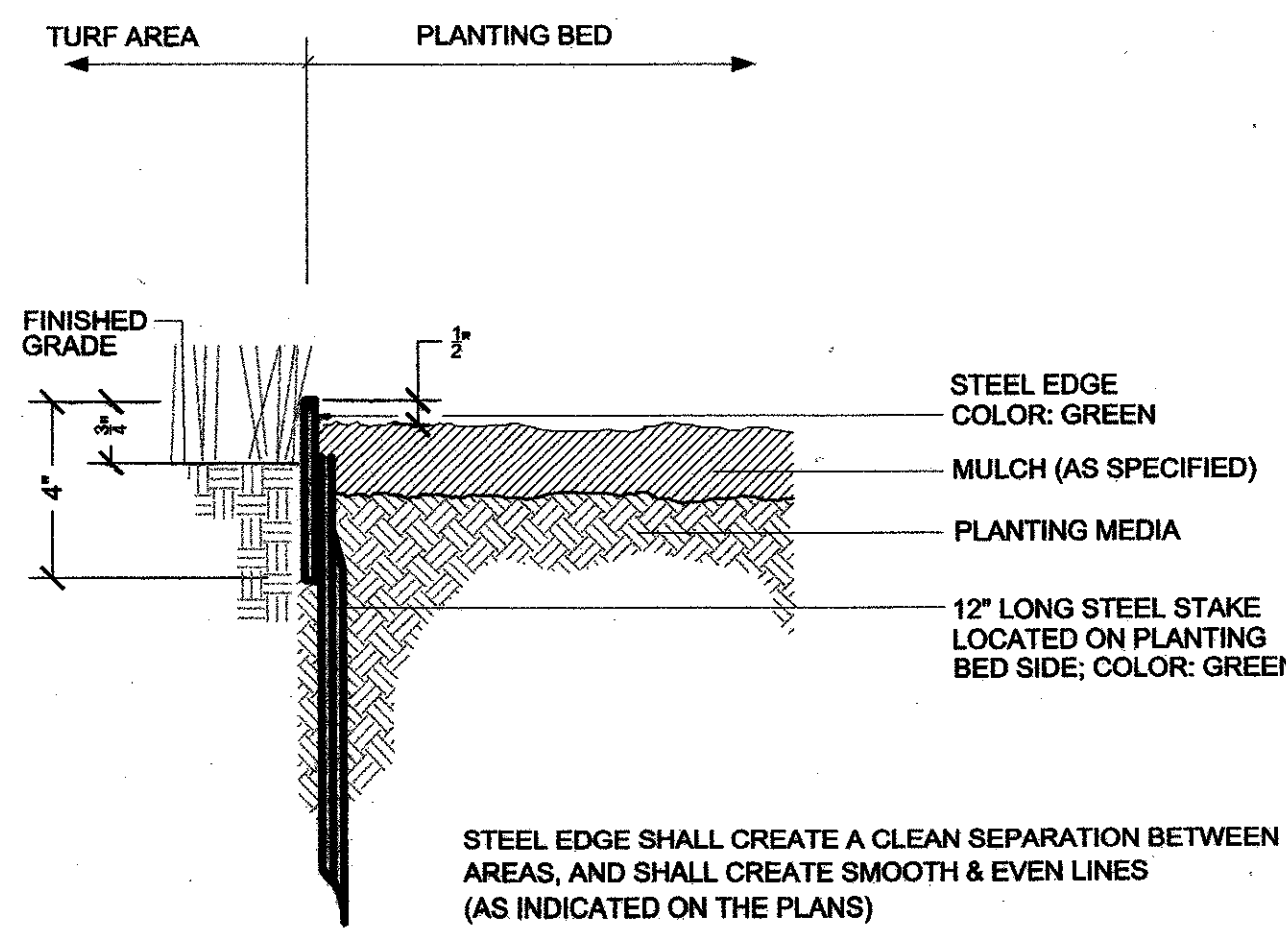
SCALE: 1 1/2"=1'-0"



F CONCRETE BAND

DT-01

SCALE: 1 1/2"=1'-0"



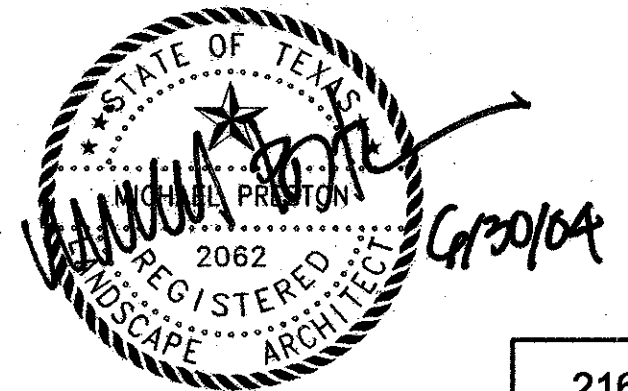
G STEEL EDGING DETAIL

DT-01

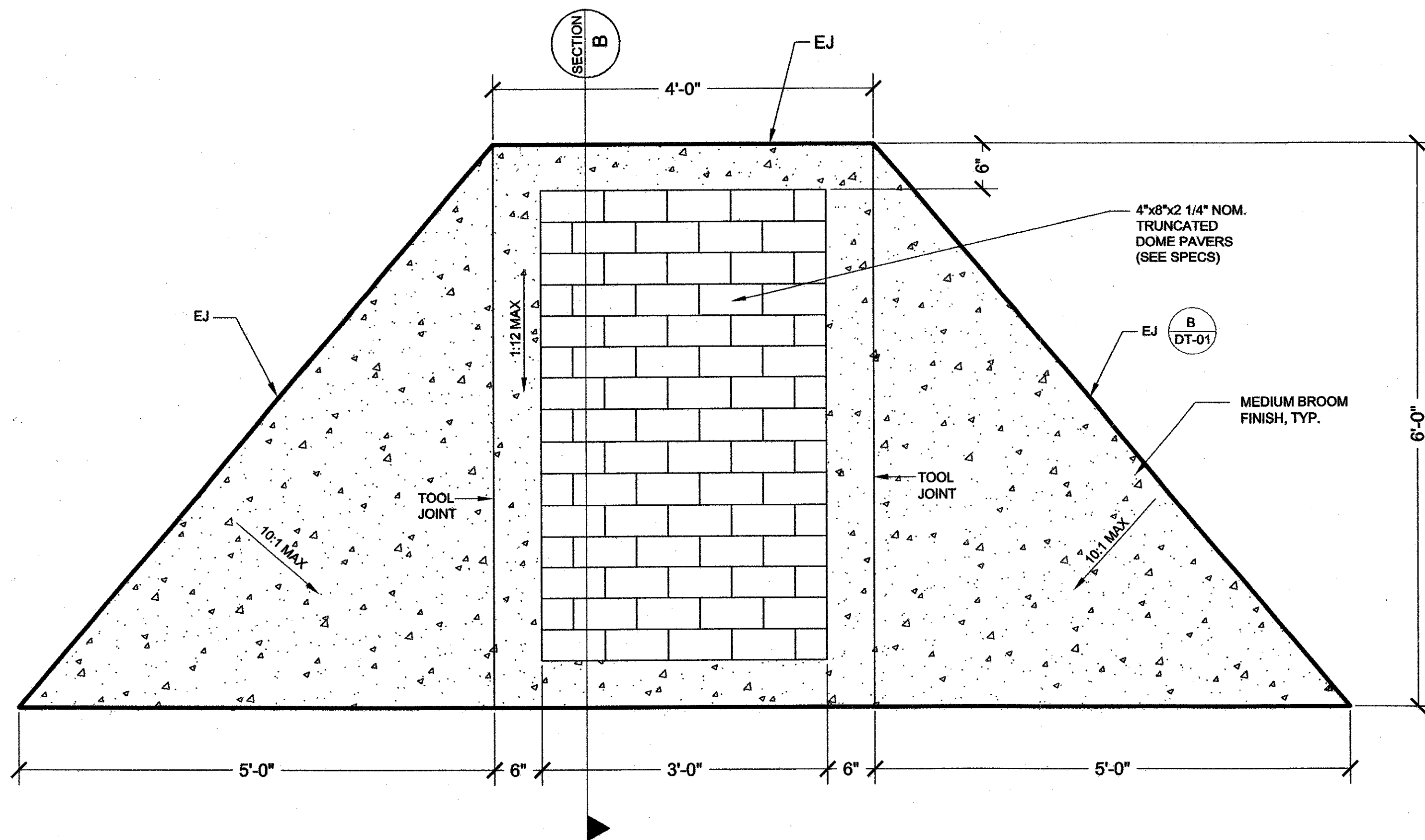
NOT TO SCALE

See RFI #118
Revised Brick Paver Support Slab Details.

See RFI #027
"Graded Riprap Detail"
The Graded Riprap shall be installed per TXDOT 1993, Section 432 - Graded Riprap Type Common. The "T" dimension shall be 12" thick.

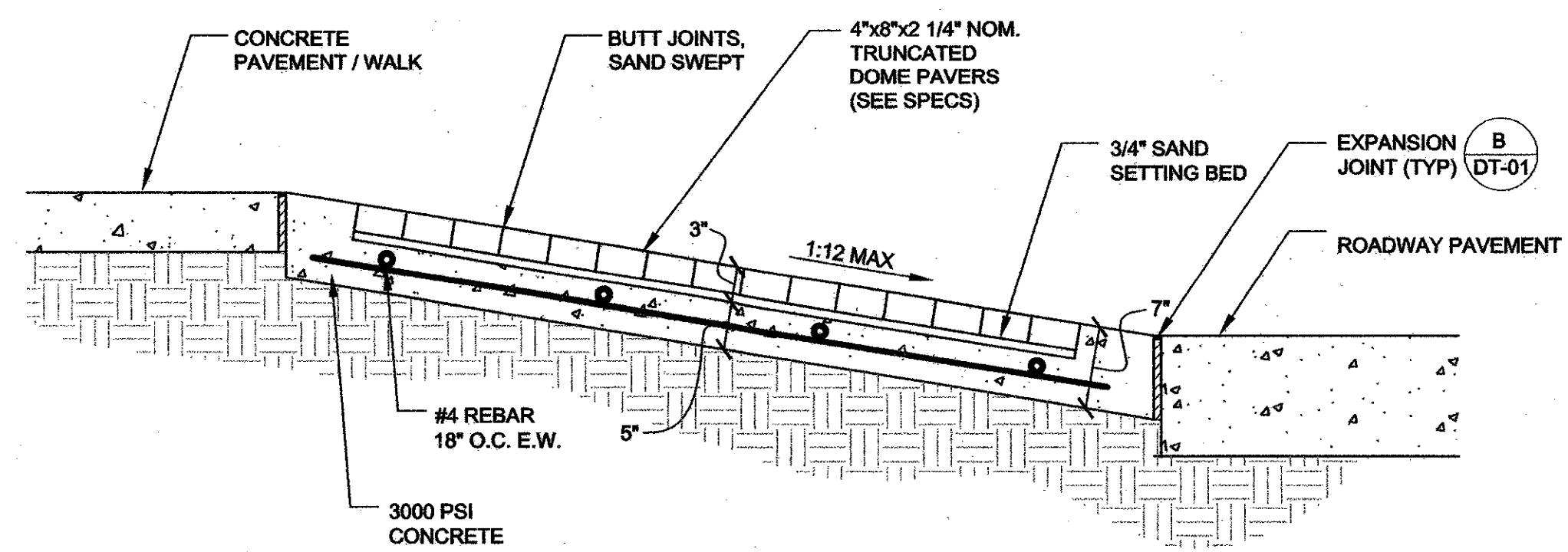


NO.		DATE	REVISION	APPROV.	216
HNTB ARCHITECTS ENGINEERS PLANNERS The HNTB Companies					
ARAPAHO ROAD EXTENSION					
SURVEYOR BOULEVARD TO ADDISON ROAD					
SITework DETAILS					
TOWN OF ADDISON, TEXAS					
Design	DAB	Drawn	DAB	DATE	SCALE
Check	MP	Check	MP	6/3/04	VARIES
PROJECT NO.	25768		SHEET NO.	DT-01	



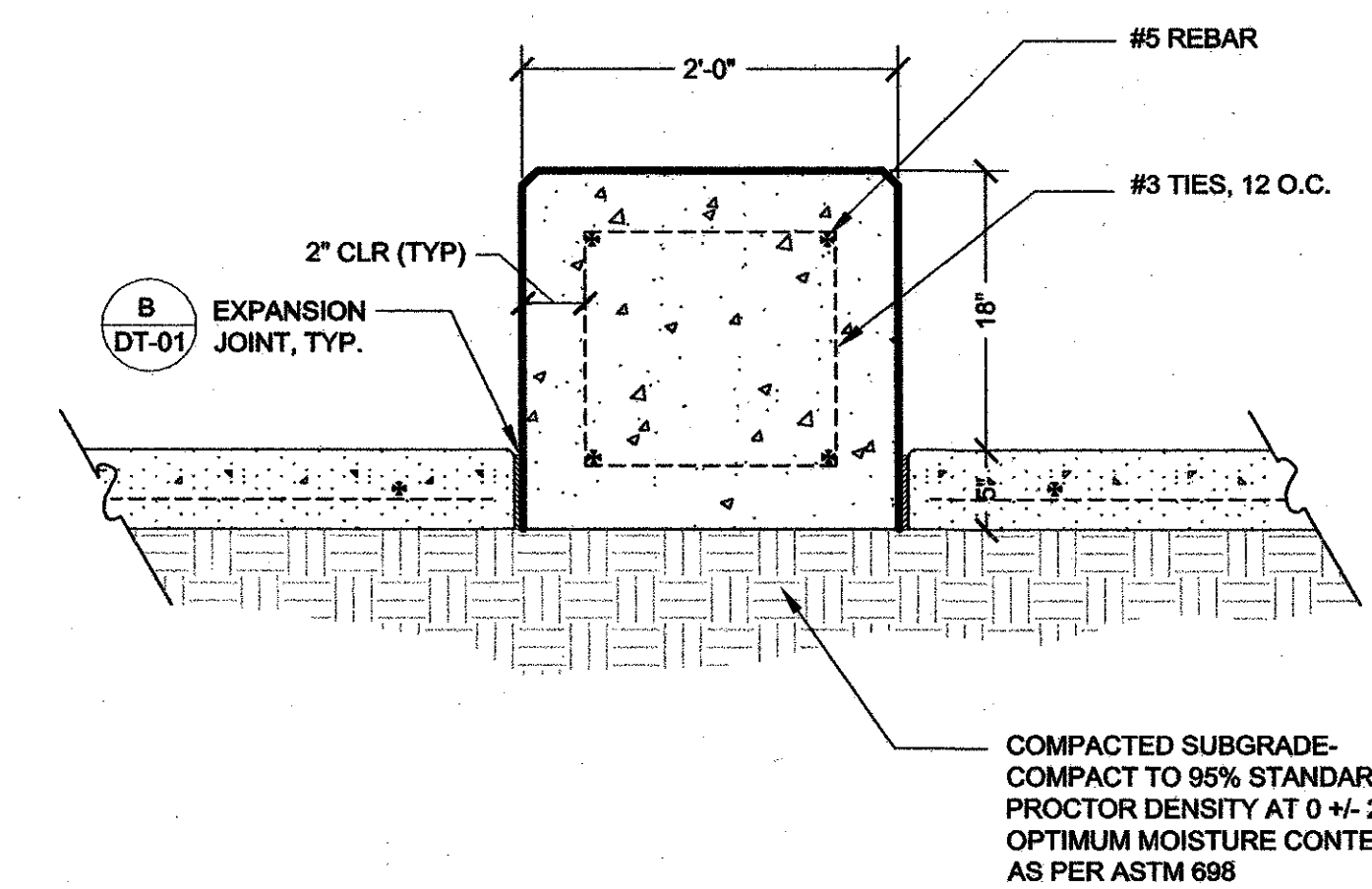
A HANDICAP RAMP - PLAN
DT-02

SCALE: 1/2"=1'-0"



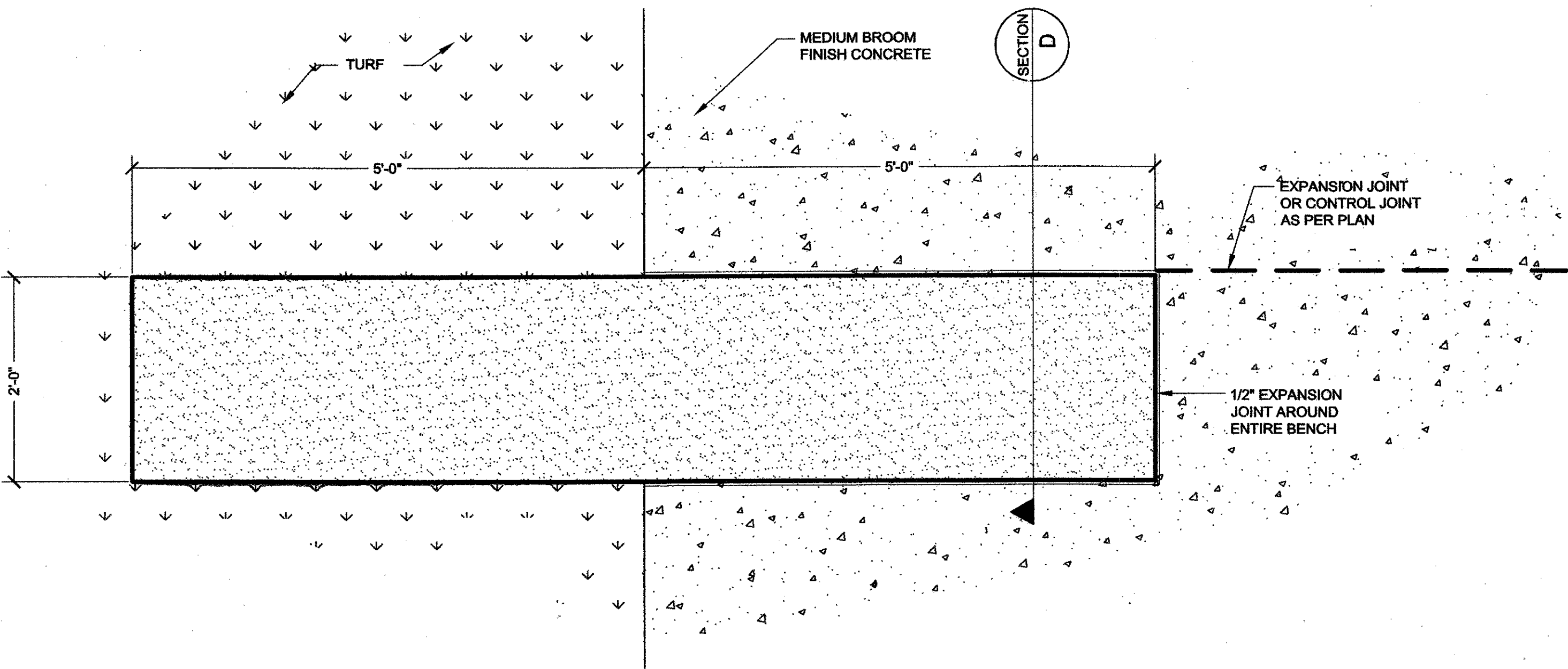
B HANDICAP RAMP - SECTION
DT-02

SCALE: 1"=1'-0"



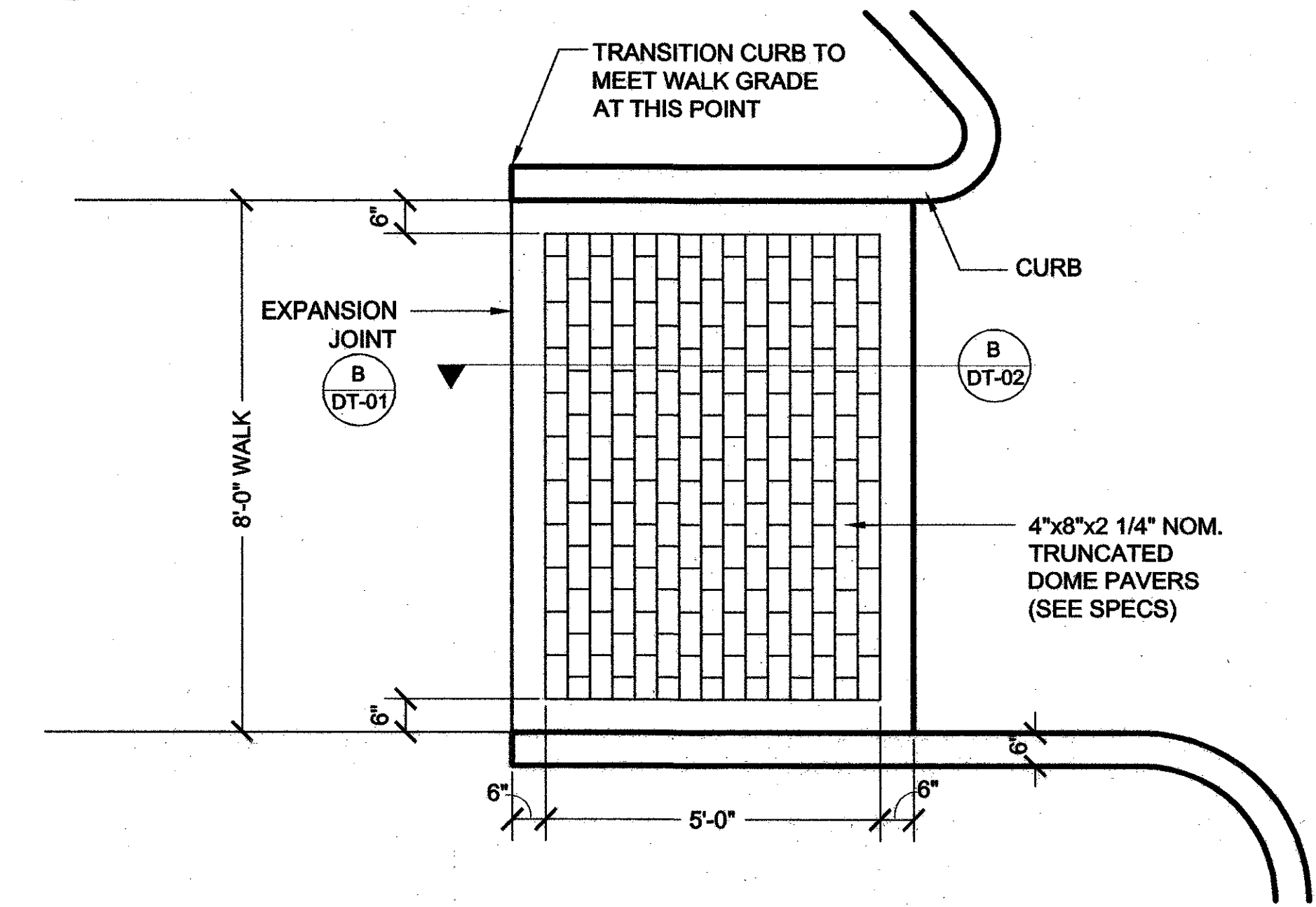
D CONCRETE BENCH - SECTION
DT-02

SCALE: 1"=1'-0"



C CONCRETE BENCH - PLAN
DT-02

SCALE: 1/2"=1'-0"



E HANDICAP RAMP - PLAN
DT-02

SCALE: 1/2"=1'-0"



217

NO.	DATE	REVISION	APPROV.

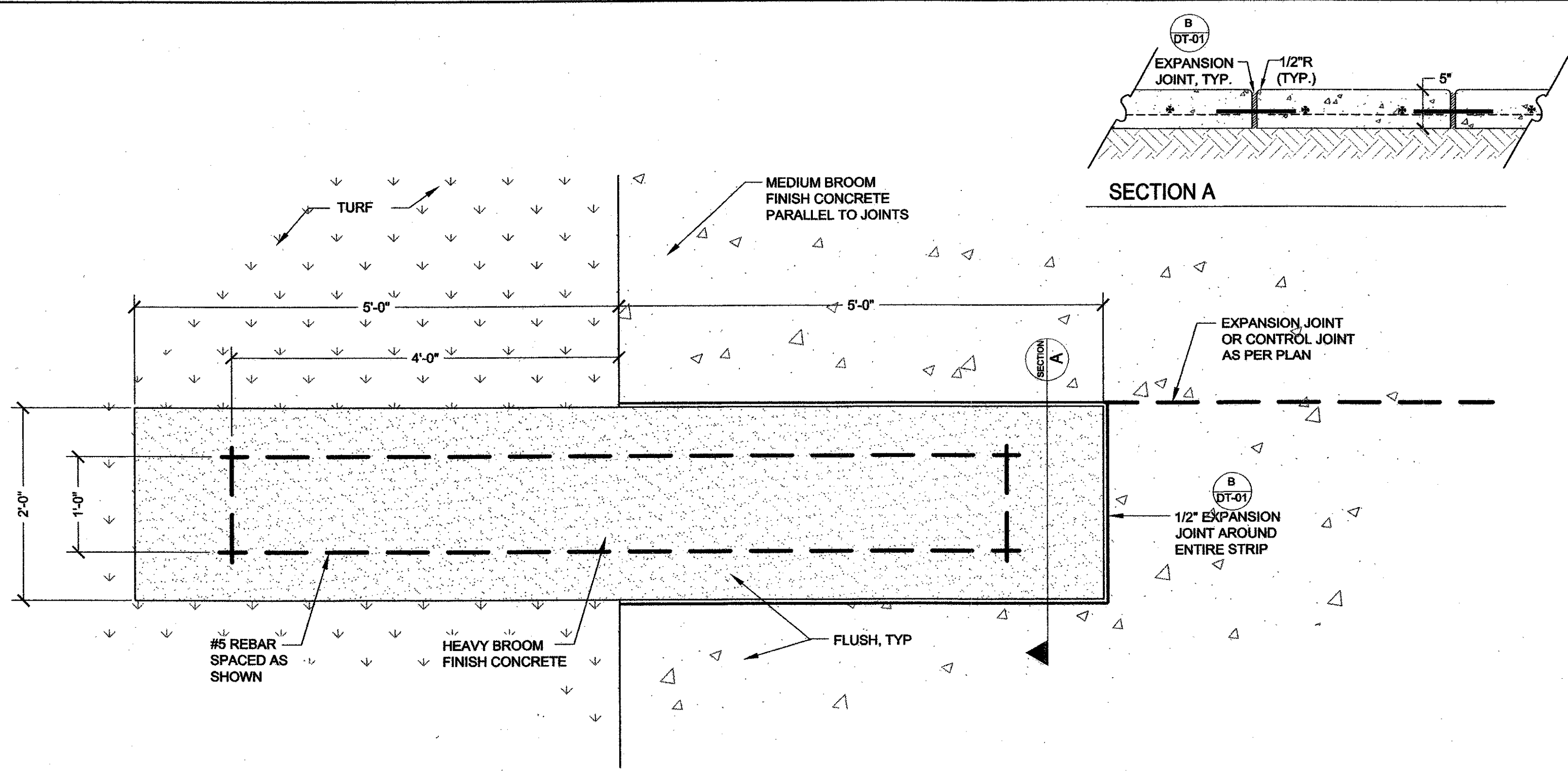
HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB Companies

ARAPAHO ROAD EXTENSION
SURVEYOR BOULEVARD TO ADDISON ROAD

SITework DETAILS

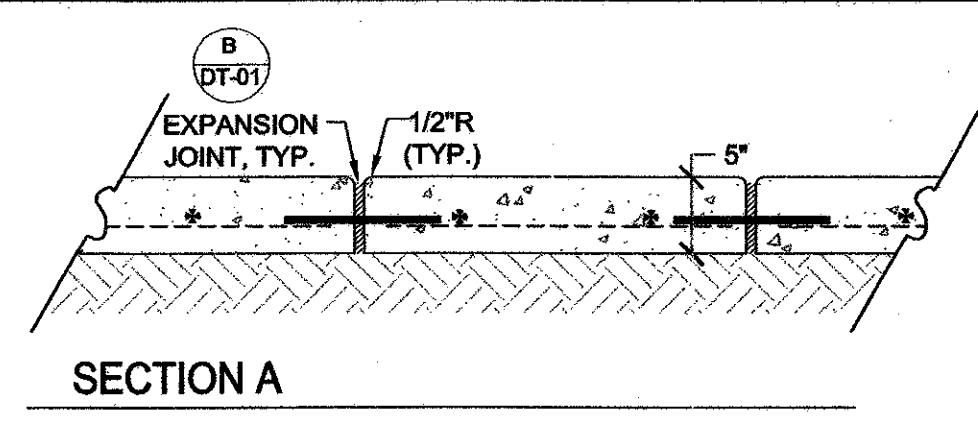
TOWN OF ADDISON, TEXAS

Design DAB	Drawn DAB	DATE	SCALE	PROJECT NO.	SHEET NO.
Check MP	Check MP	6/3/04	VARIABLES	25768	01-02



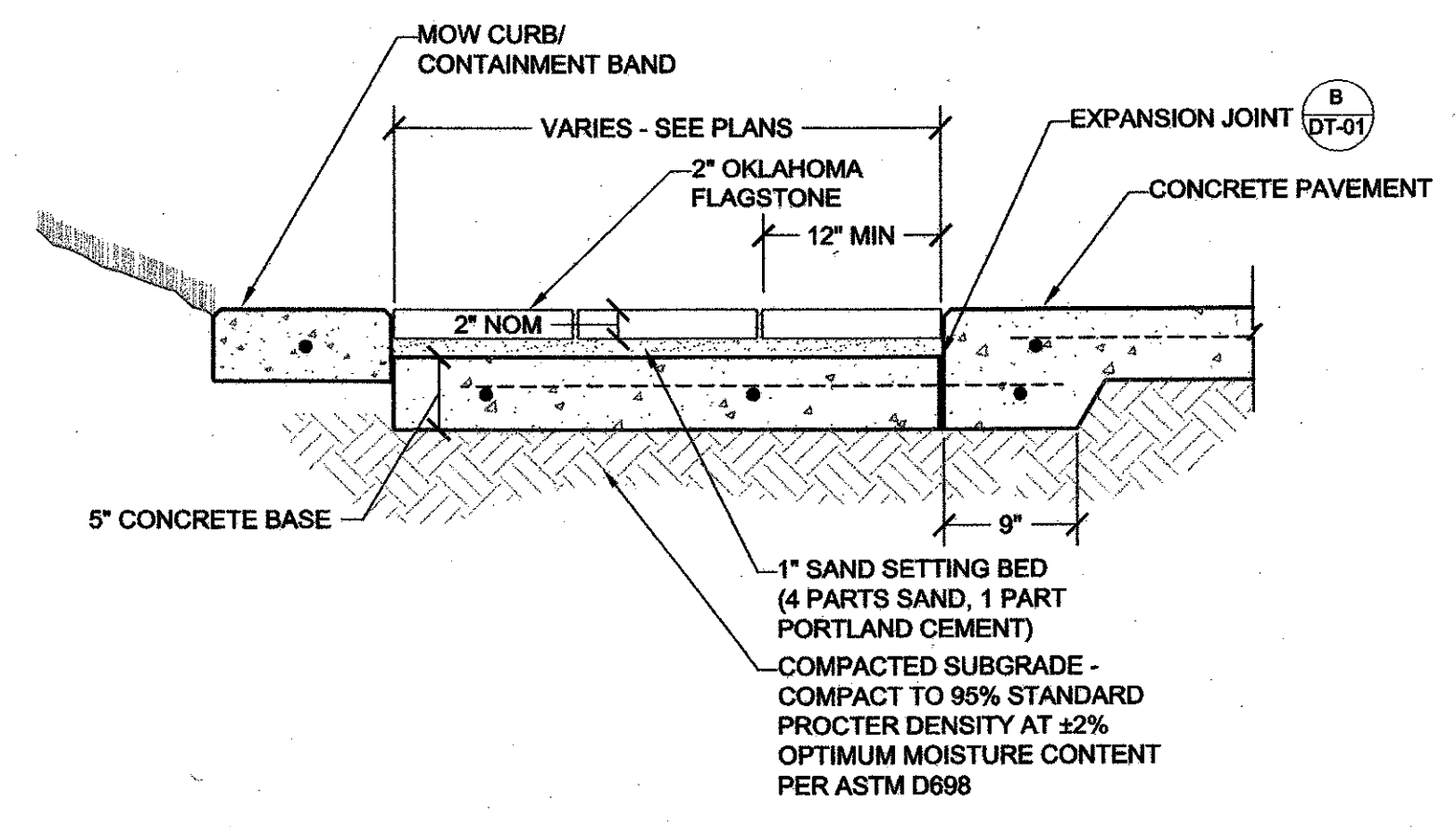
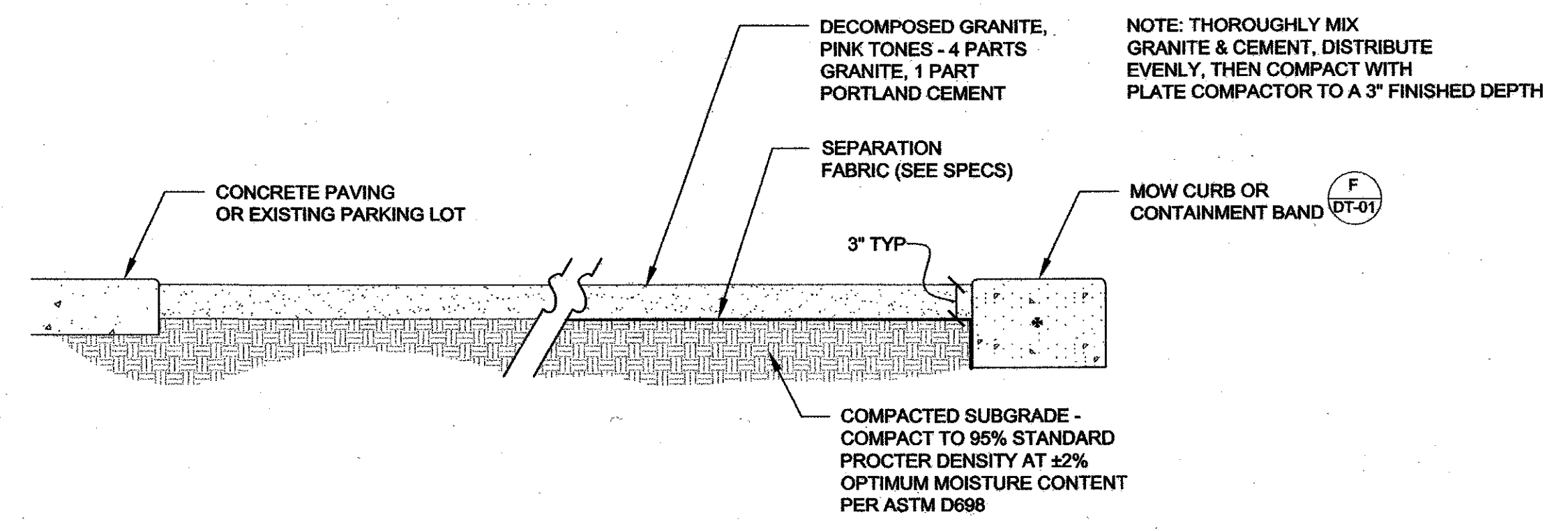
A CONCRETE STRIP
DT-03

SCALE: 1"=1'-0"



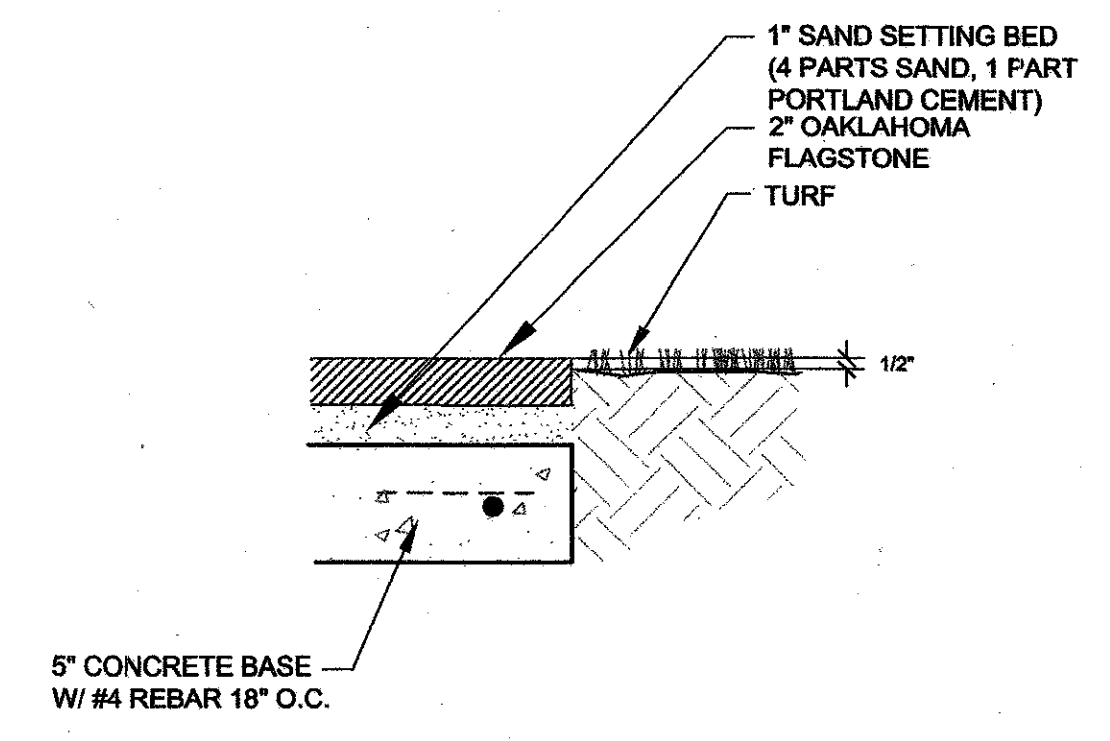
B DECOMPOSED GRANITE
DT-03

SCALE: 1"=1'-0"



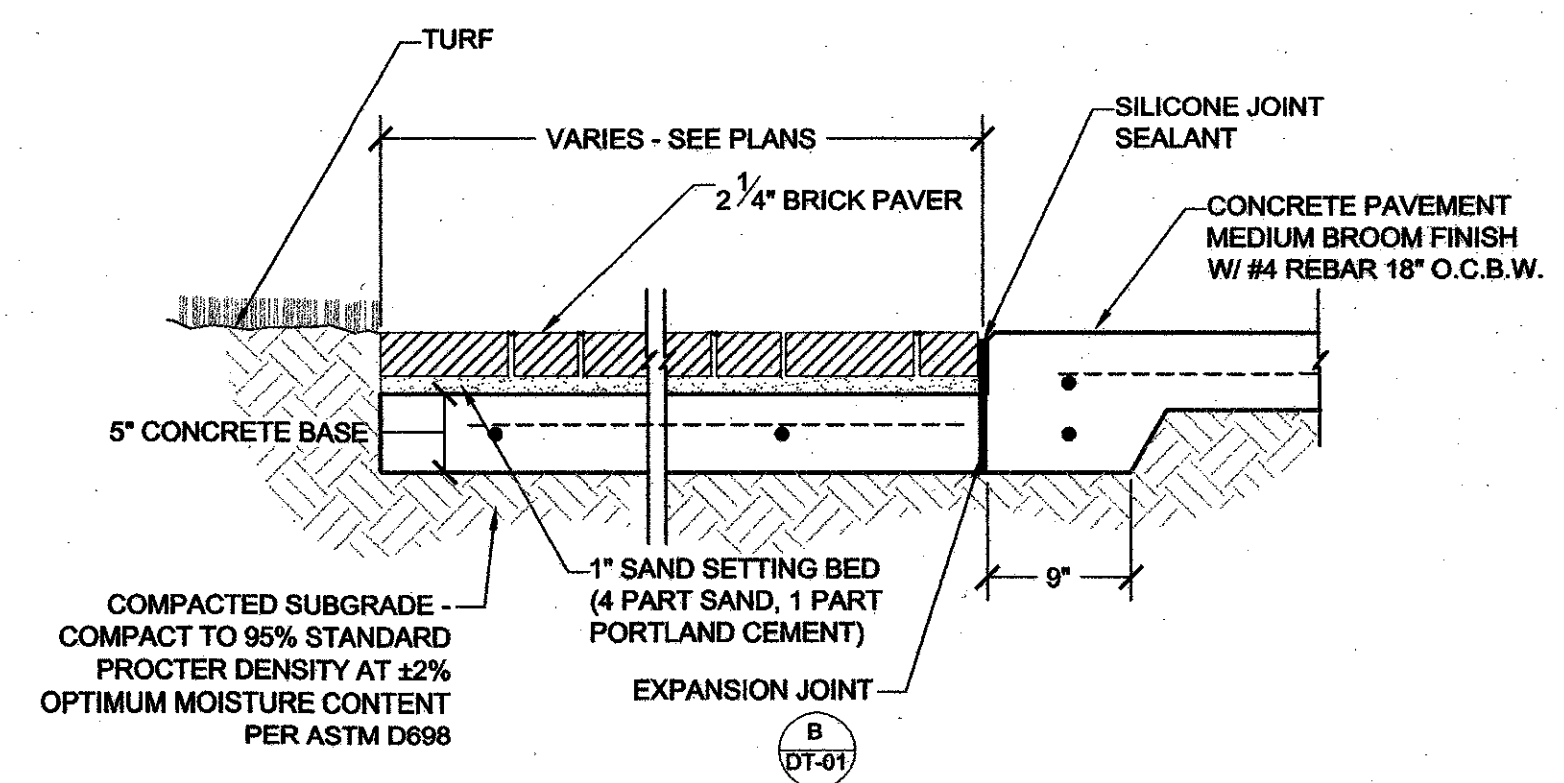
C STONE PAVING AT SIDEWALK
DT-03

SCALE: 1"=1'-0"



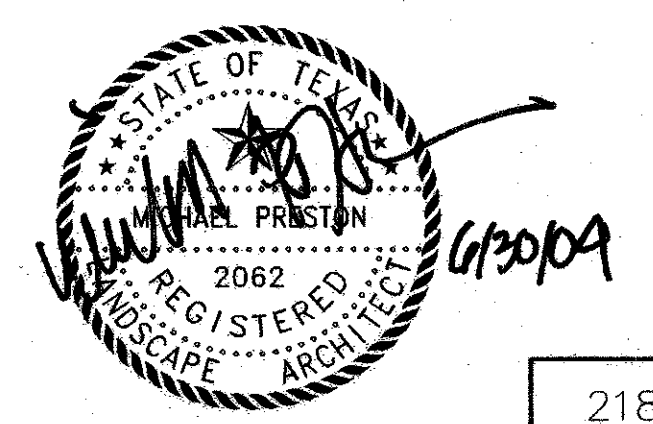
D STONE PAVING AT TURF
DT-03

SCALE: 1"=1'-0"

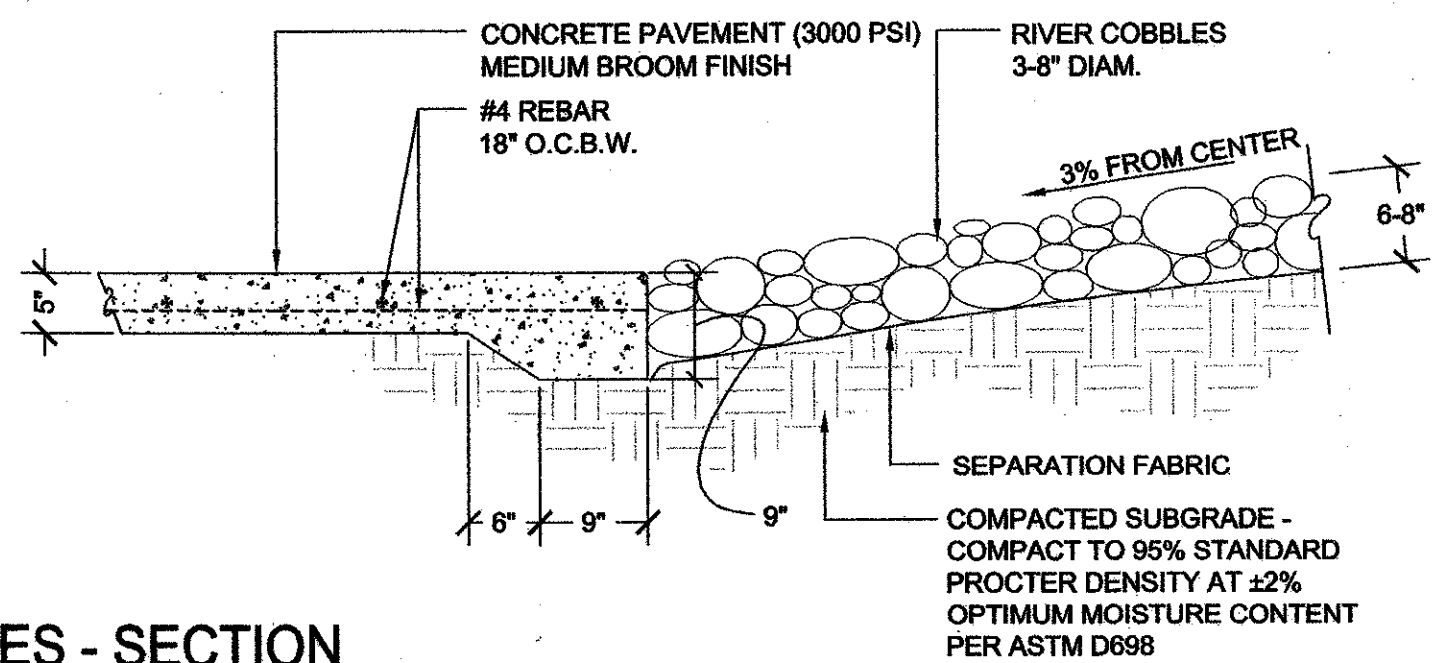


E BRICK PAVER WALK
DT-03

SCALE: 1"=1'-0"

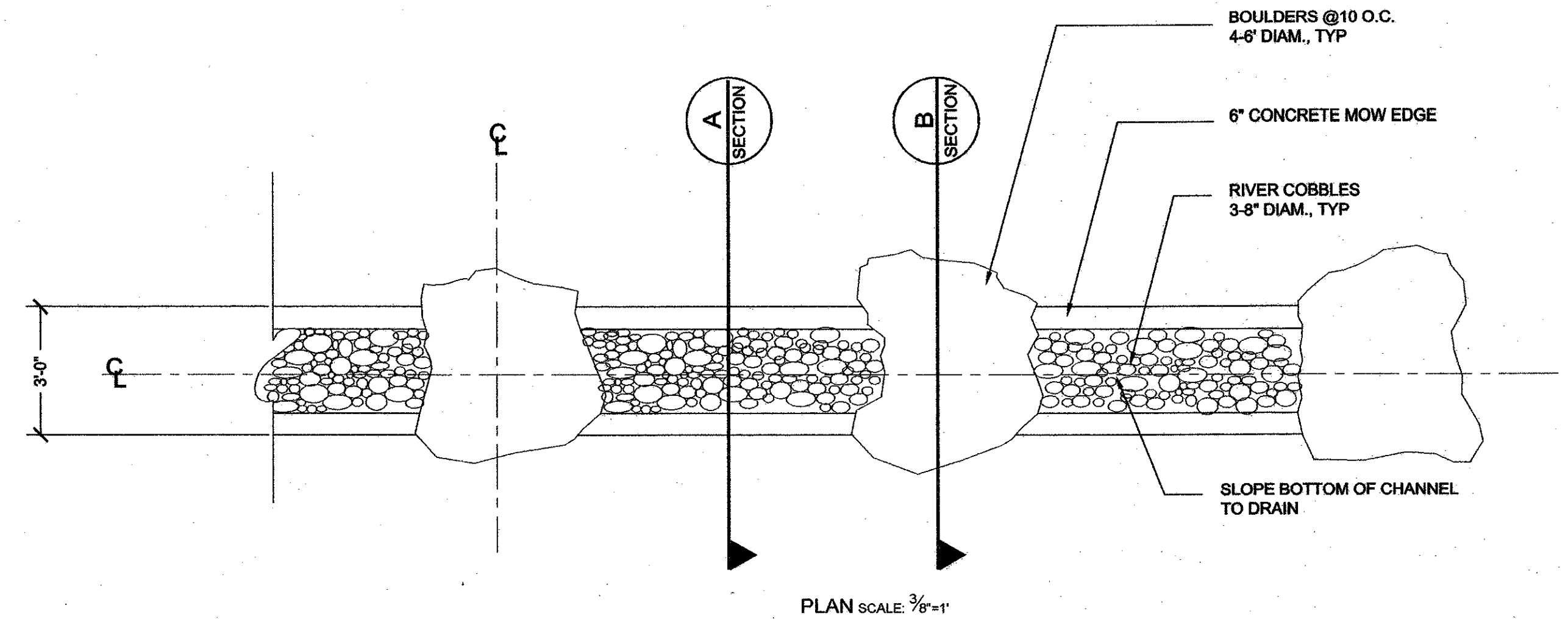


NO.		DATE	REVISION	APPROV.
HNTB ARCHITECTS ENGINEERS PLANNERS The HNTB Companies				
ARAPAHO ROAD EXTENSION				
SURVEYOR BOULEVARD TO ADDISON ROAD				
SITEWORK DETAILS				
TOWN OF ADDISON, TEXAS				
Design	DAB	Drawn	DAB	DATE
Check	MP	Check	MP	6/3/04
SCALE	PROJECT NO.		SHEET NO.	
VARIABLES	25768		DT-03	

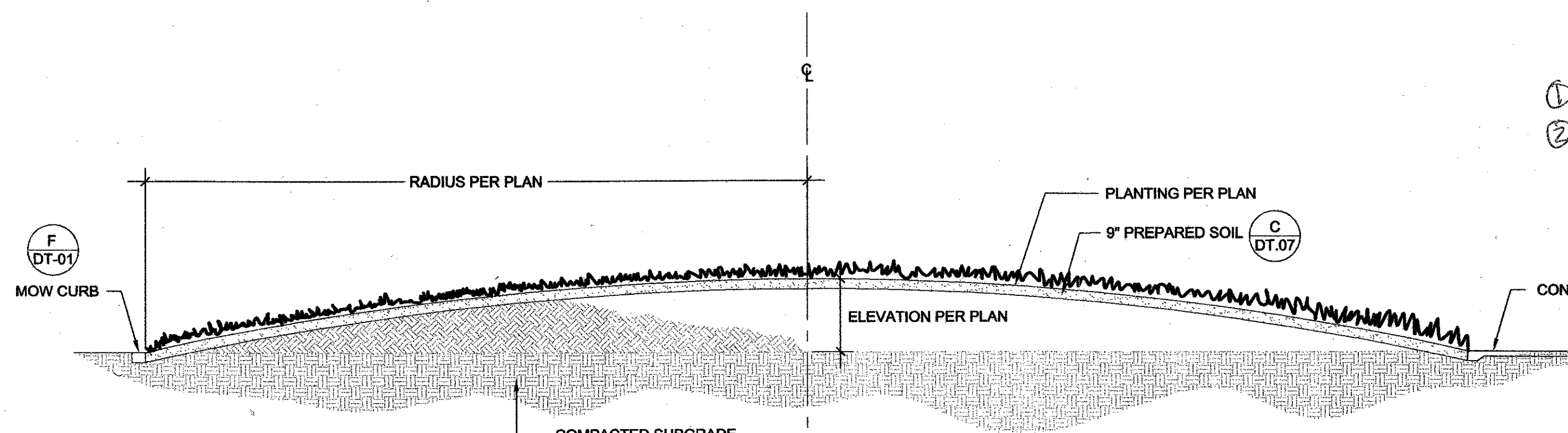


A RIVER COBBLES - SECTION
DT-04

SCALE: 3/4"=1'-0"



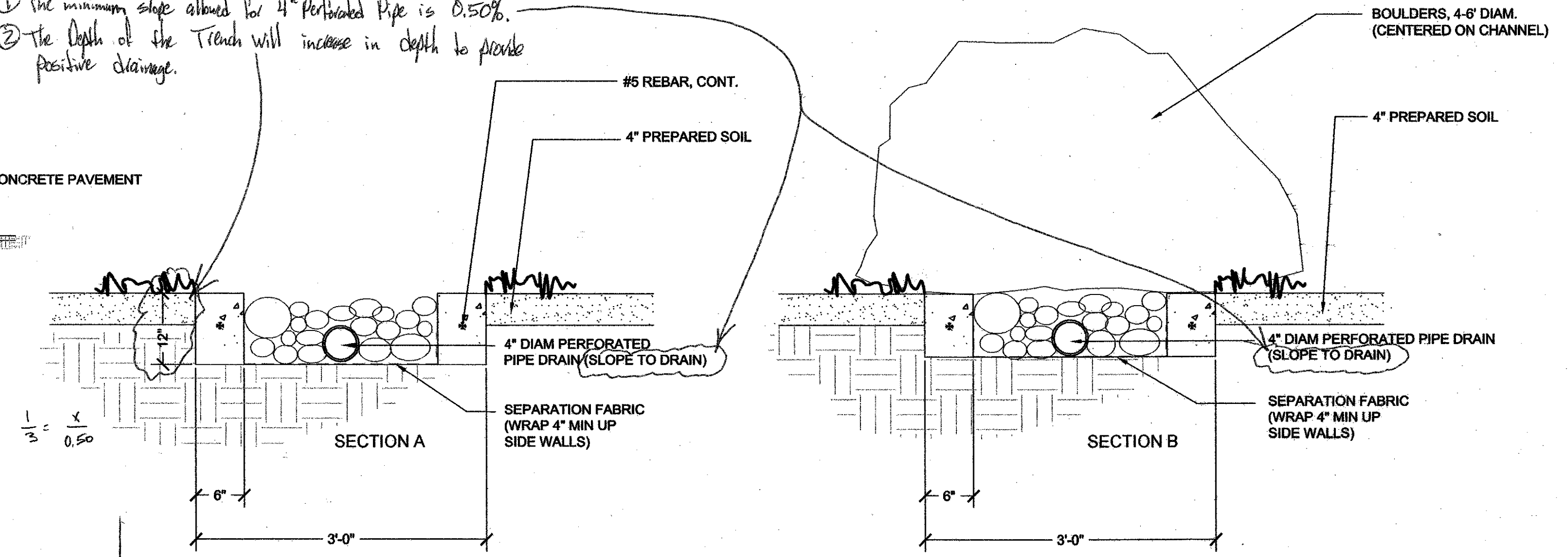
PLAN SCALE: 3/8"=1'



B LANDSCAPE BERMS - SECTION
DT-04

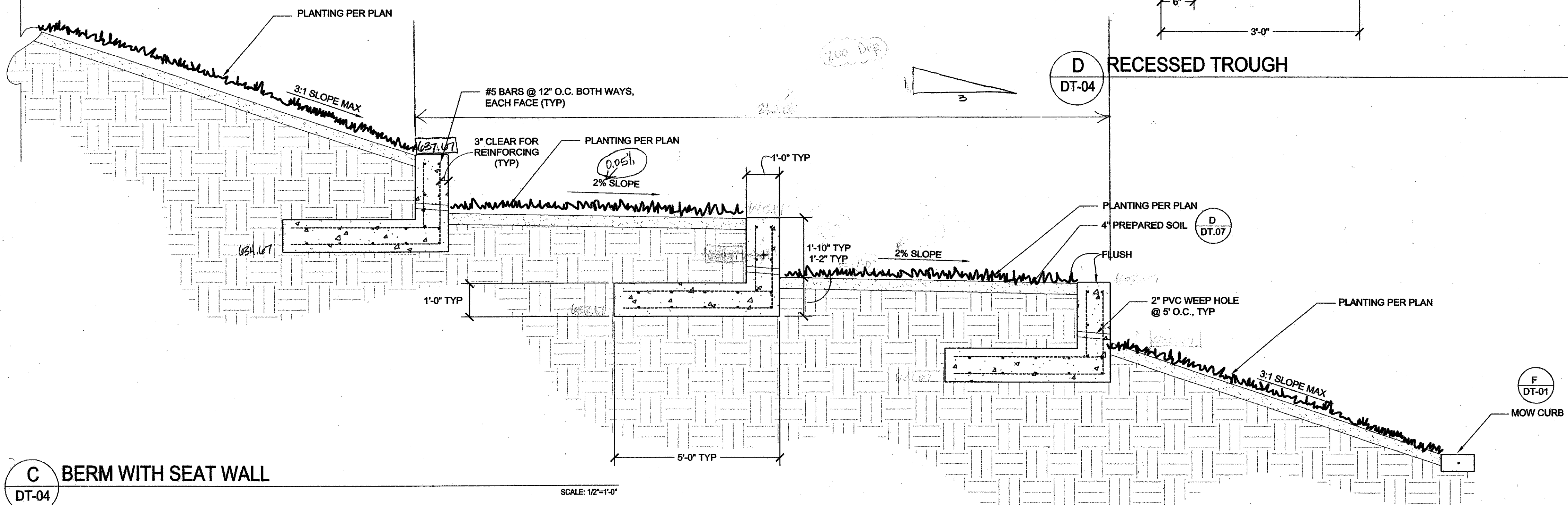
SCALE: 1/8"=1'-0"

See RFI #084
 ① The minimum slope allowed for 4" Perforated Pipe is 0.50%.
 ② The depth of the Trench will increase in depth to provide positive drainage.



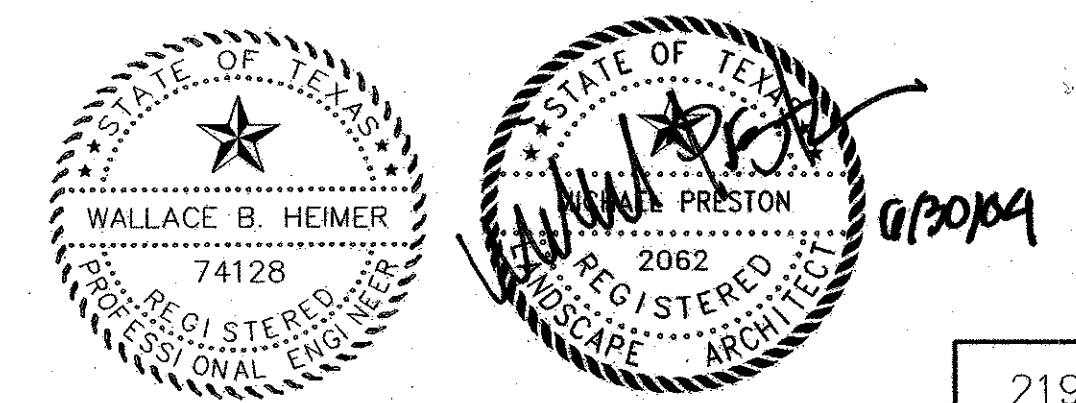
D RECESSED TROUGH
DT-04

SCALE: 1"=1'-0"

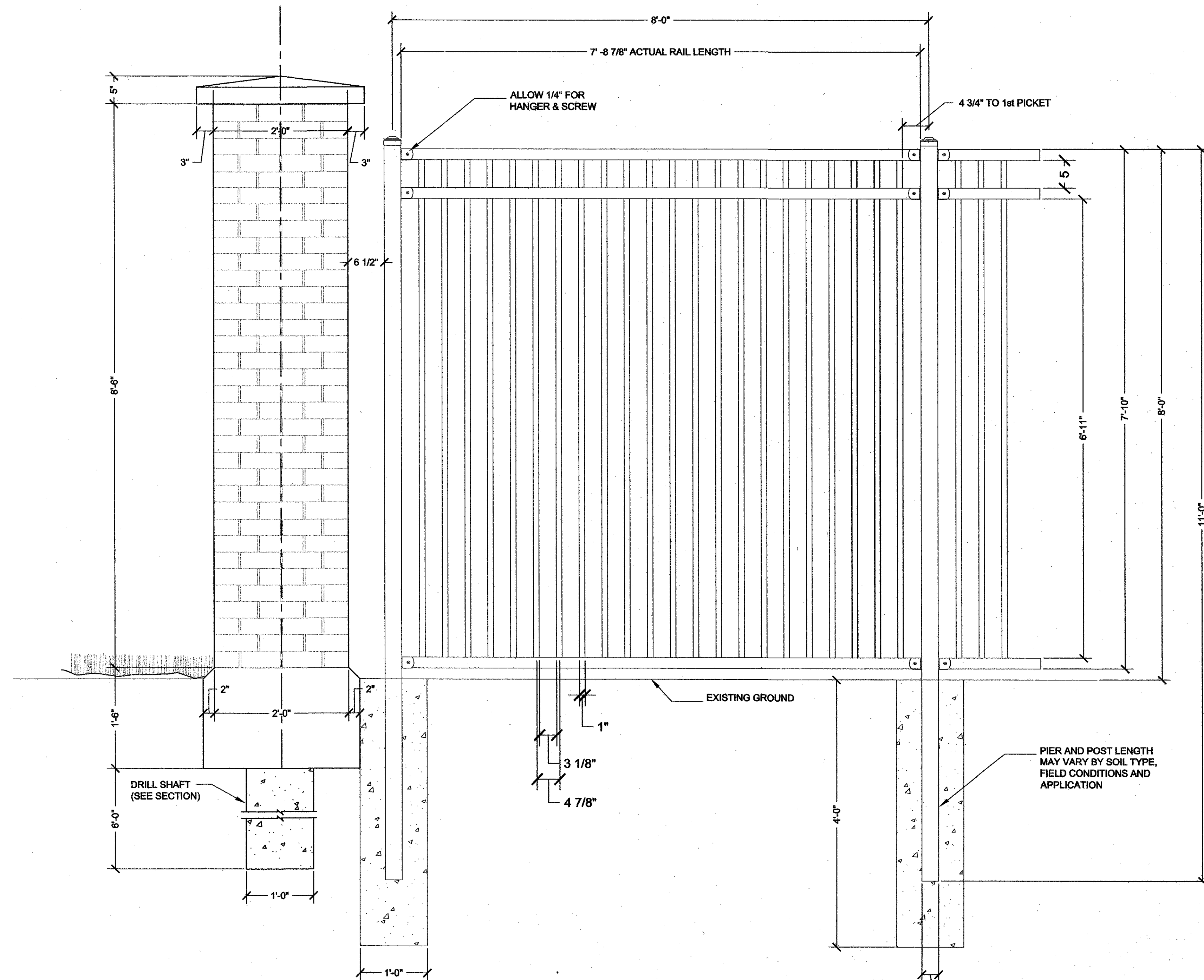
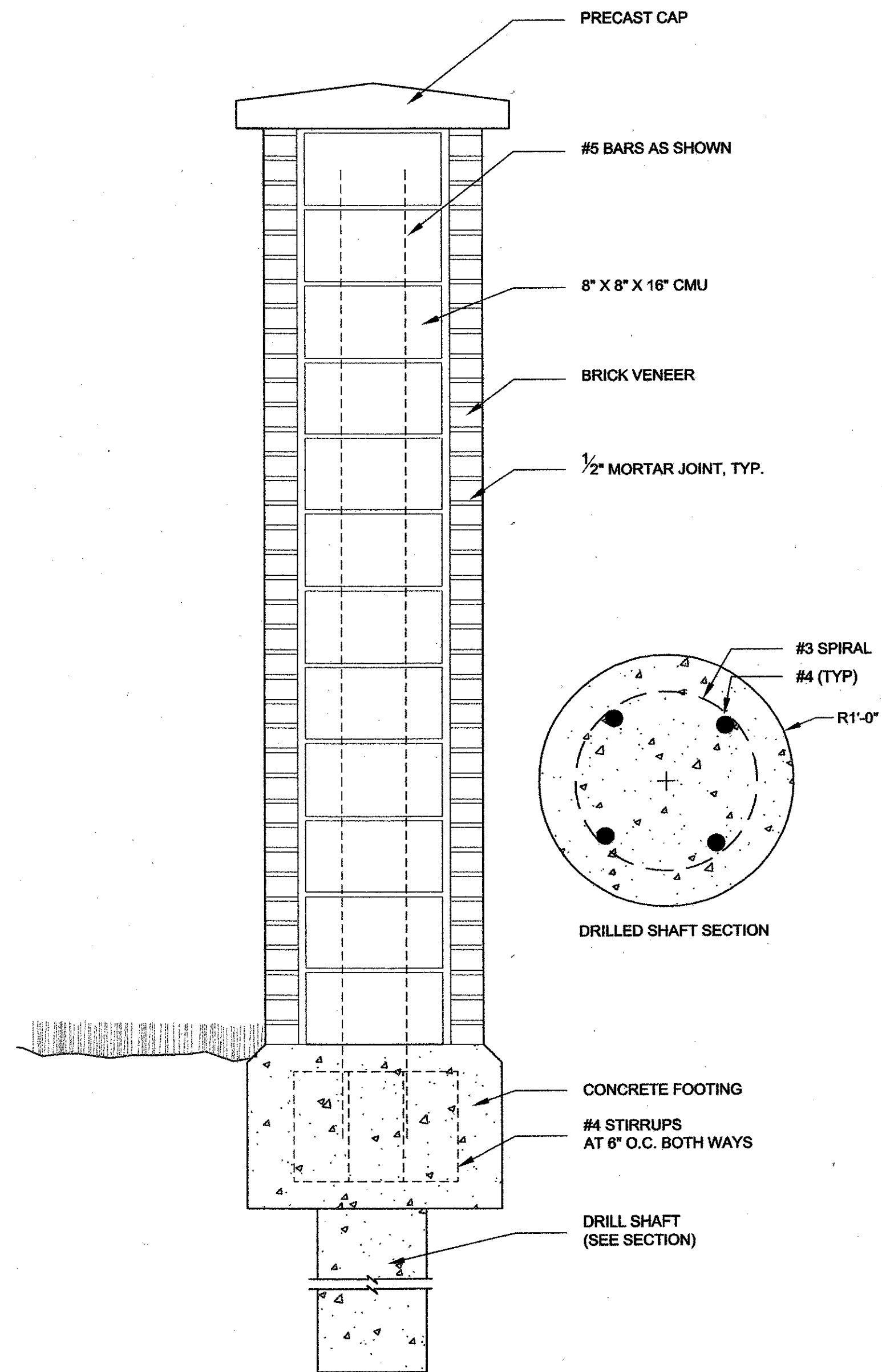
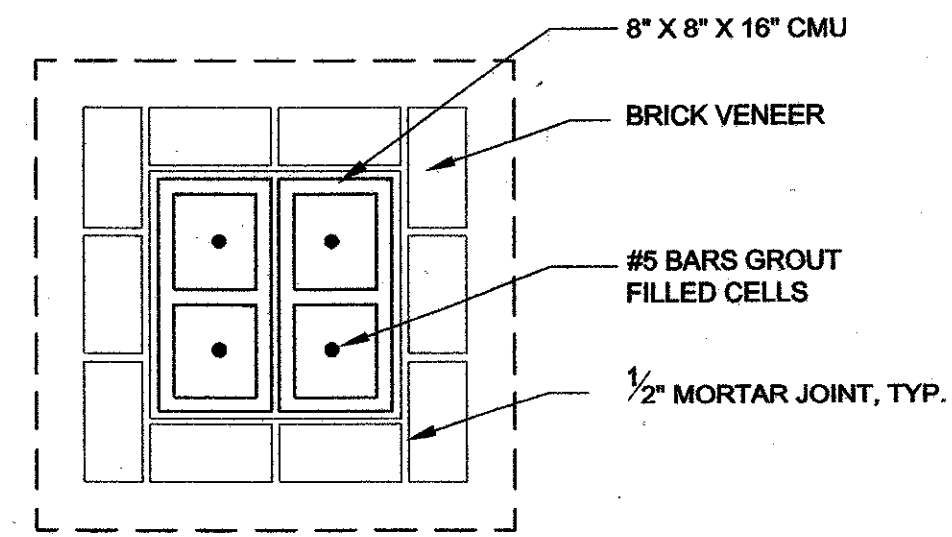


C BERM WITH SEAT WALL
DT-04

SCALE: 1/2"=1'-0"



NO.		DATE	REVISION	APPROV.
HNTB ARCHITECTS ENGINEERS PLANNERS The HNTB Companies				
ARAPAHO ROAD EXTENSION				
SURVEYOR BOULEVARD TO ADDISON ROAD				
SITEWORK DETAILS				
TOWN OF ADDISON, TEXAS				
Design	DAB	Drawn	DAB	DATE
Check	MP	Check	MP	6/3/04
SCALE	PROJECT NO.		SHEET NO.	
VARIABLES	25768		DT-04	

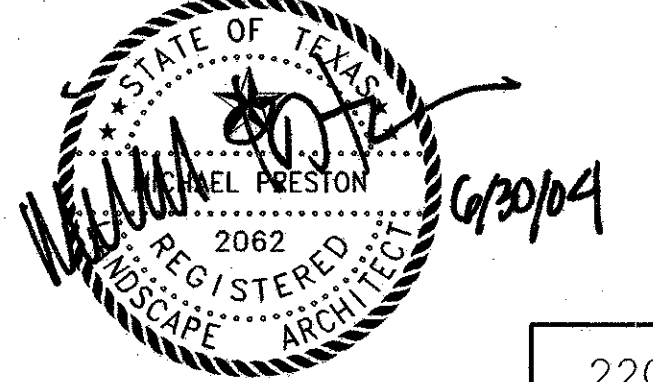
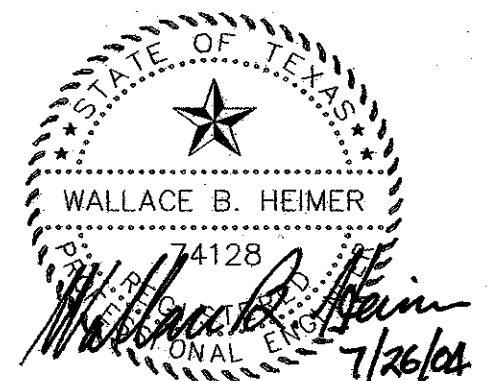


A BRICK COLUMN - PLAN & SECTION
DT-05

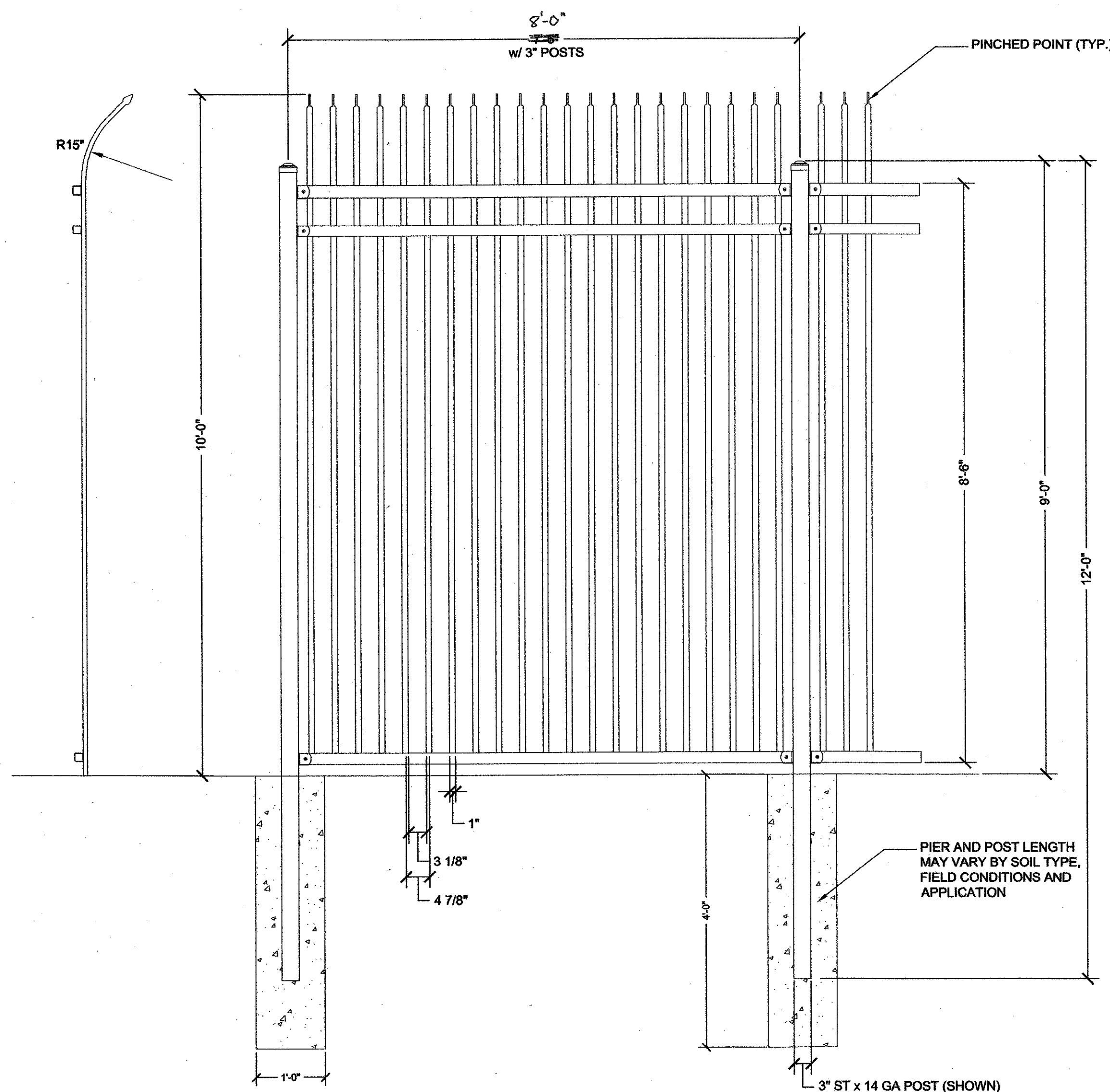
SCALE: 1"=1'-0"

B BRICK COLUMN AND DECORATIVE METAL FENCING
DT-05

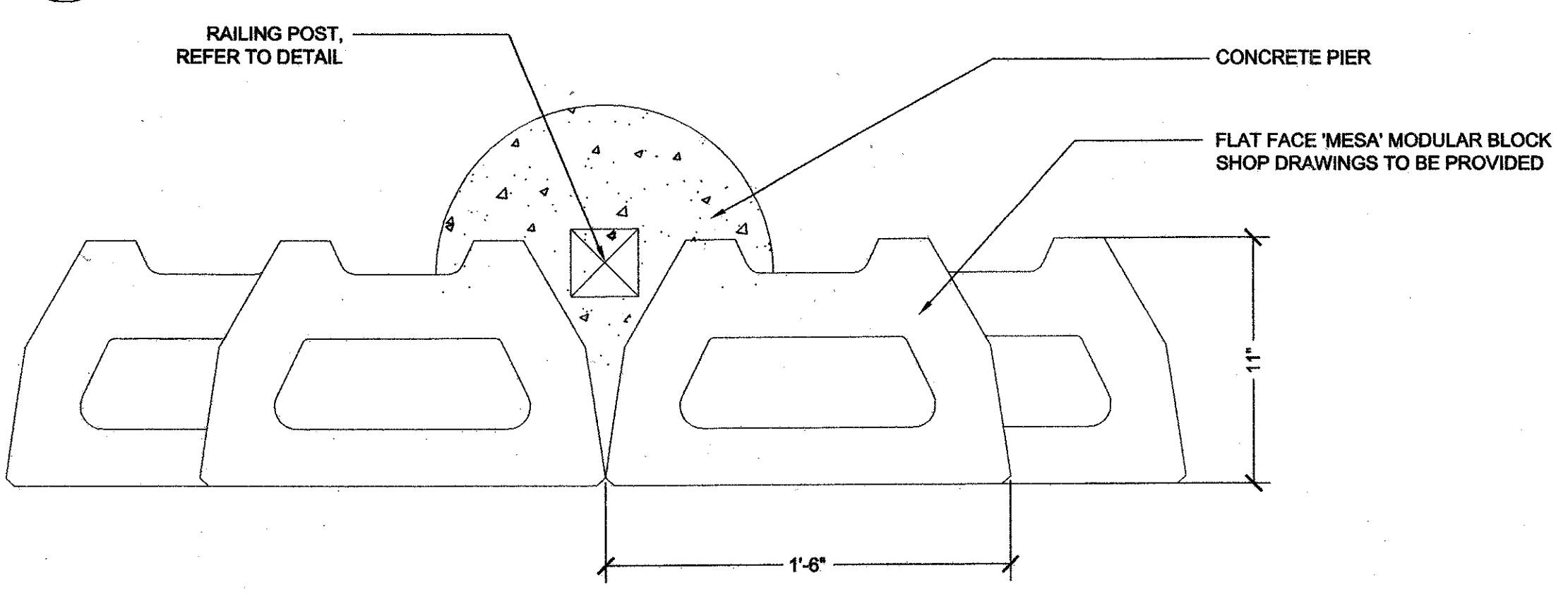
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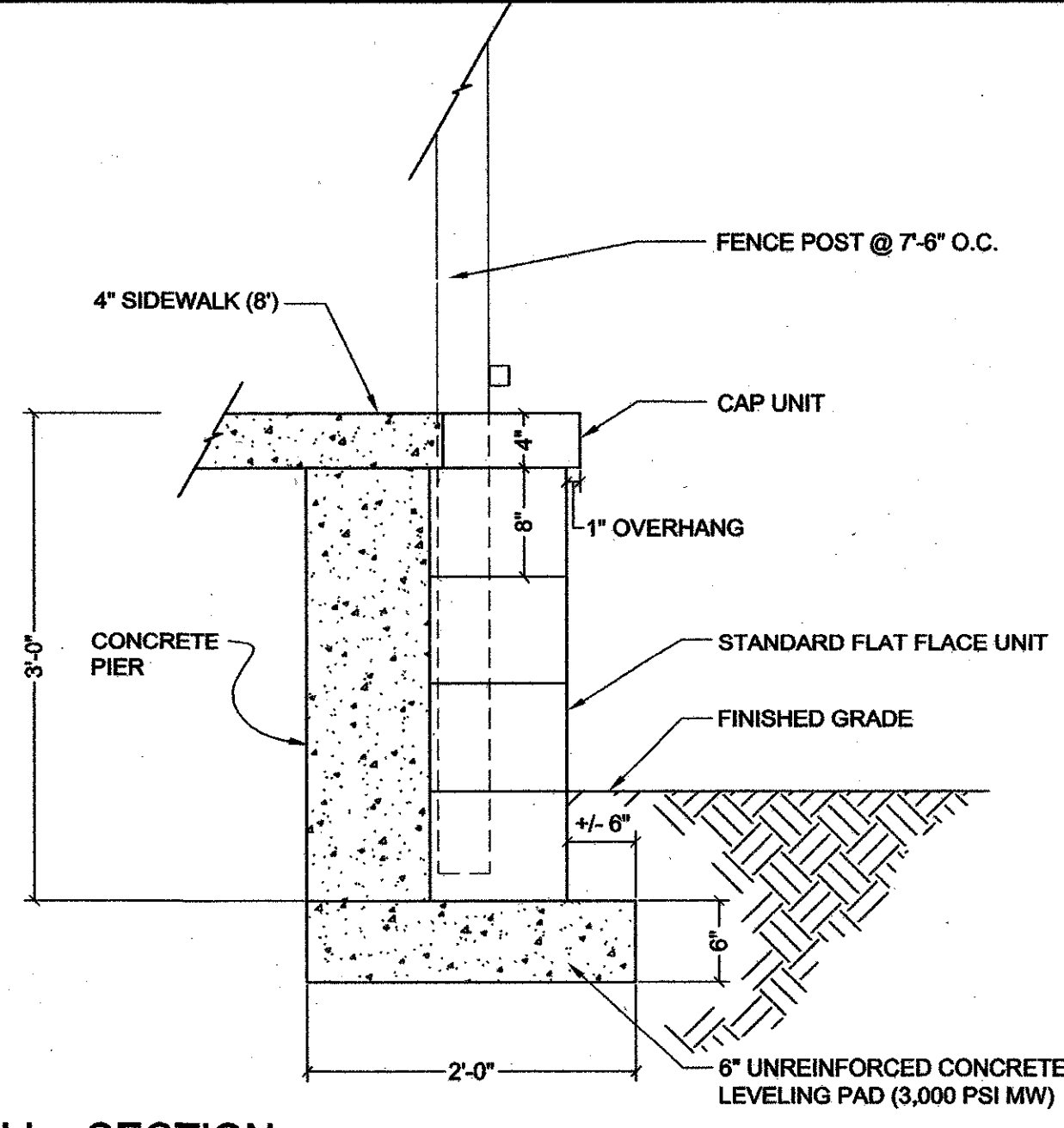
NO.	DATE	REVISION	APPROV.
220			
HNTB ARCHITECTS ENGINEERS PLANNERS The HNTB Companies			
ARAPAHO ROAD EXTENSION			
SURVEYOR BOULEVARD TO ADDISON ROAD			
FENCE & COLUMN DETAILS			
TOWN OF ADDISON, TEXAS			
Design	DAB	Drawn	DAB
DATE	6/3/04	SCALE	VARIABLES
PROJECT NO.	25768	SHEET NO.	DT-05
Check	MP	Check	MP



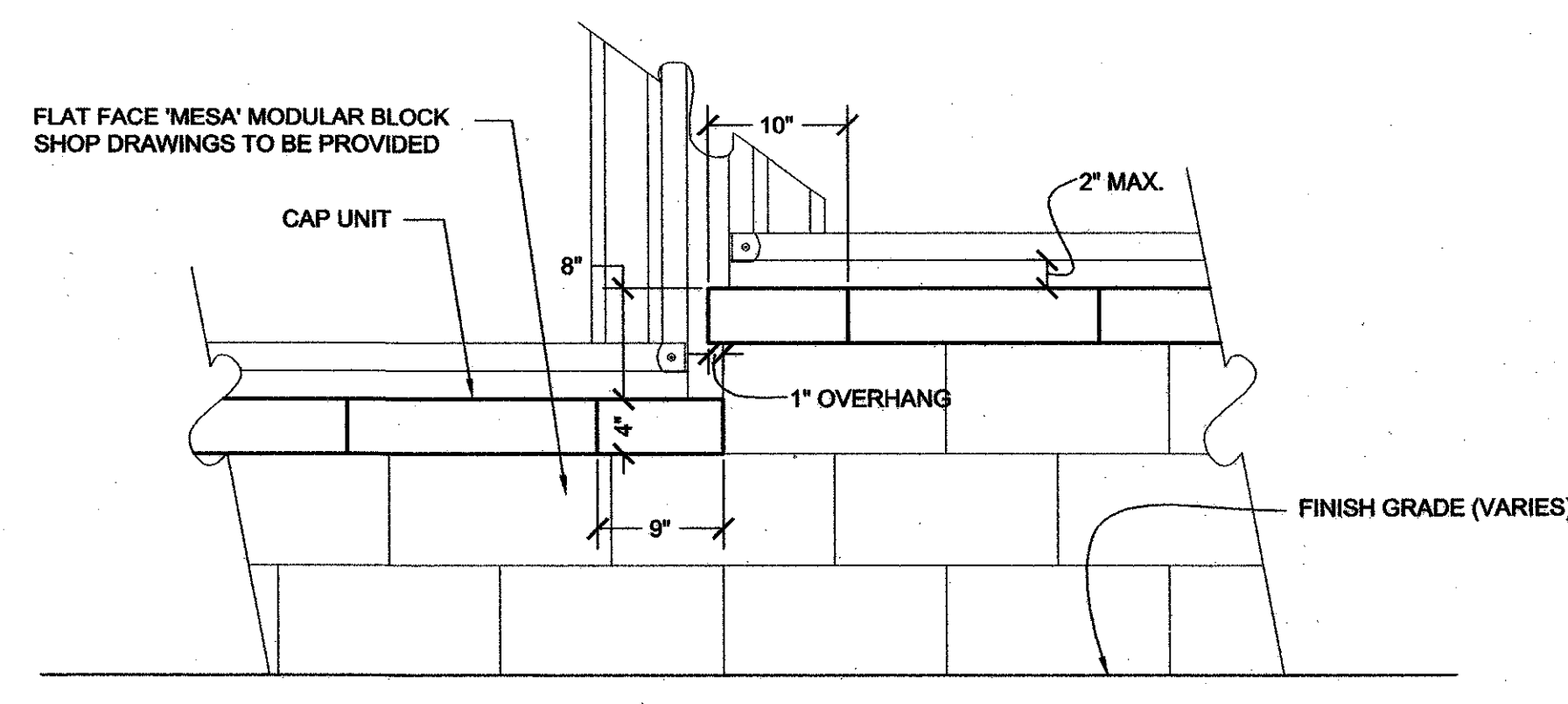
A INDUSTRIAL SECURITY FENCING
DT-06 SCALE: 3/4"=1'-0"



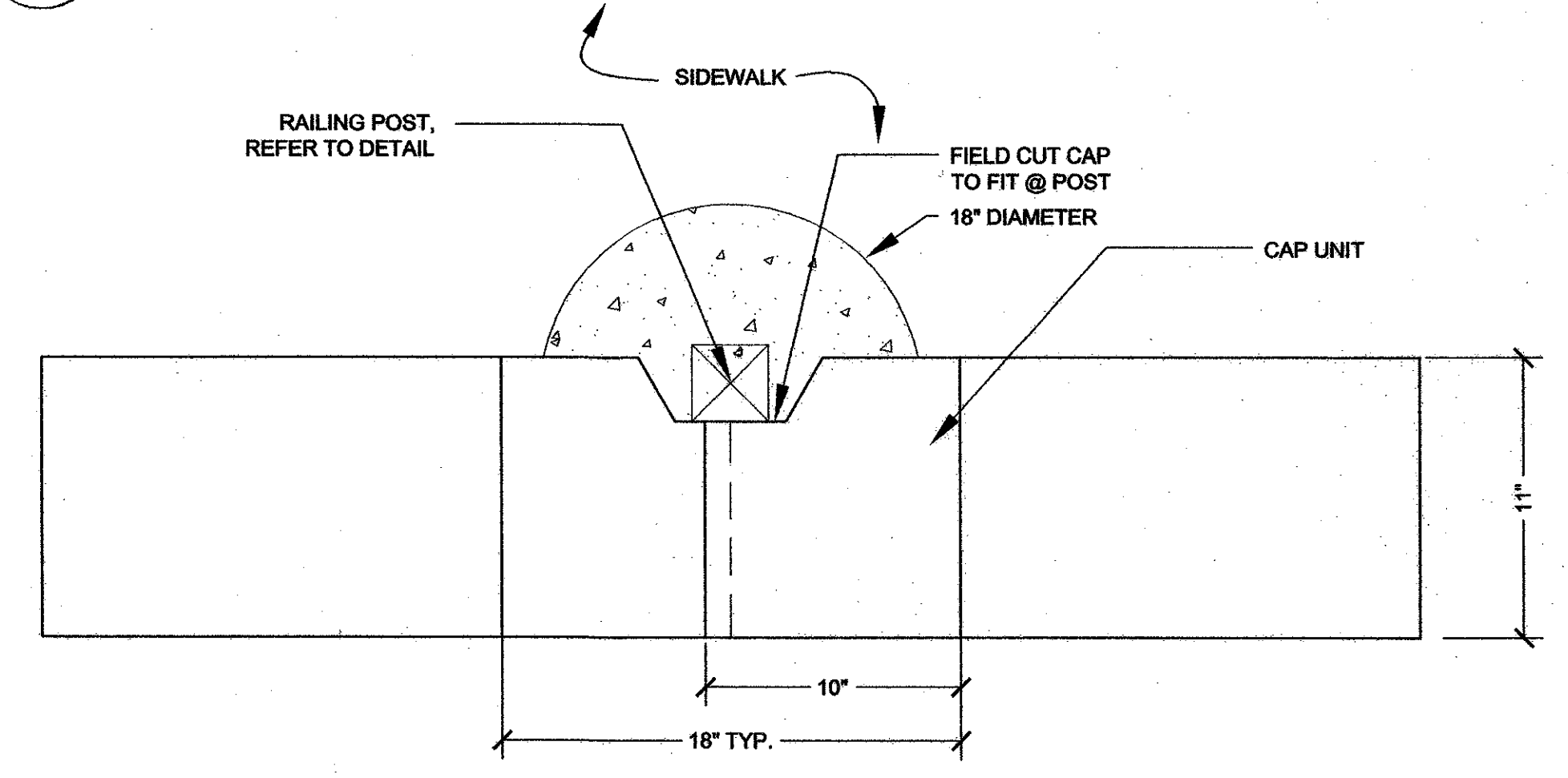
D RETAINING WALL - PLAN
DT-06 SCALE: 2"=1'-0"



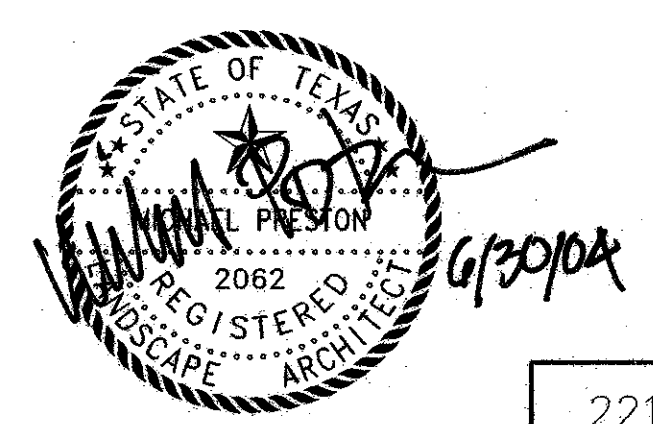
B RETAINING WALL - SECTION
DT-06 SCALE: 1"=1'-0"



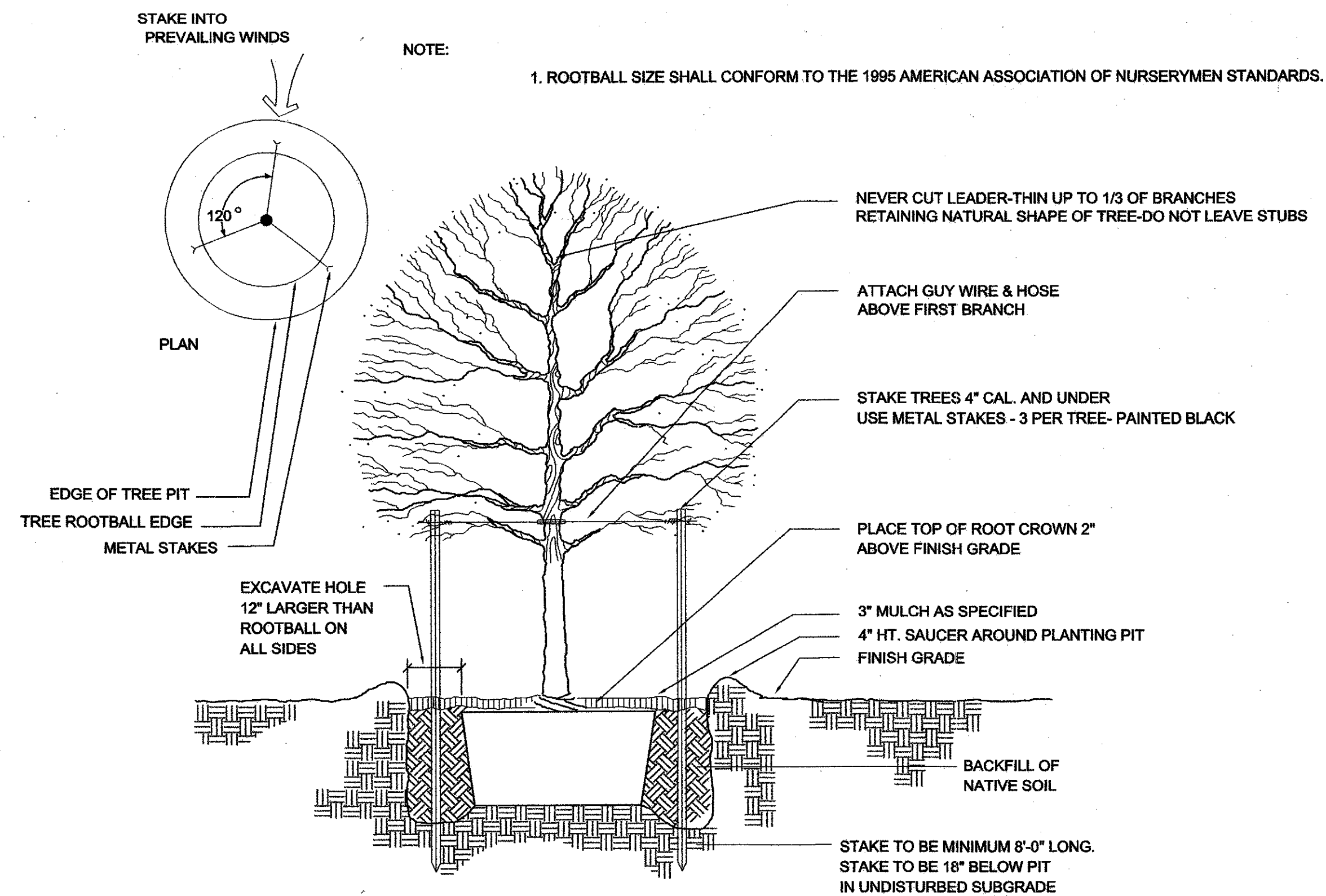
C RETAINING WALL - ELEVATION
DT-06 SCALE: 1"=1'-0"



E RETAINING WALL CAP - PLAN
DT-06 SCALE: 2"=1'-0"

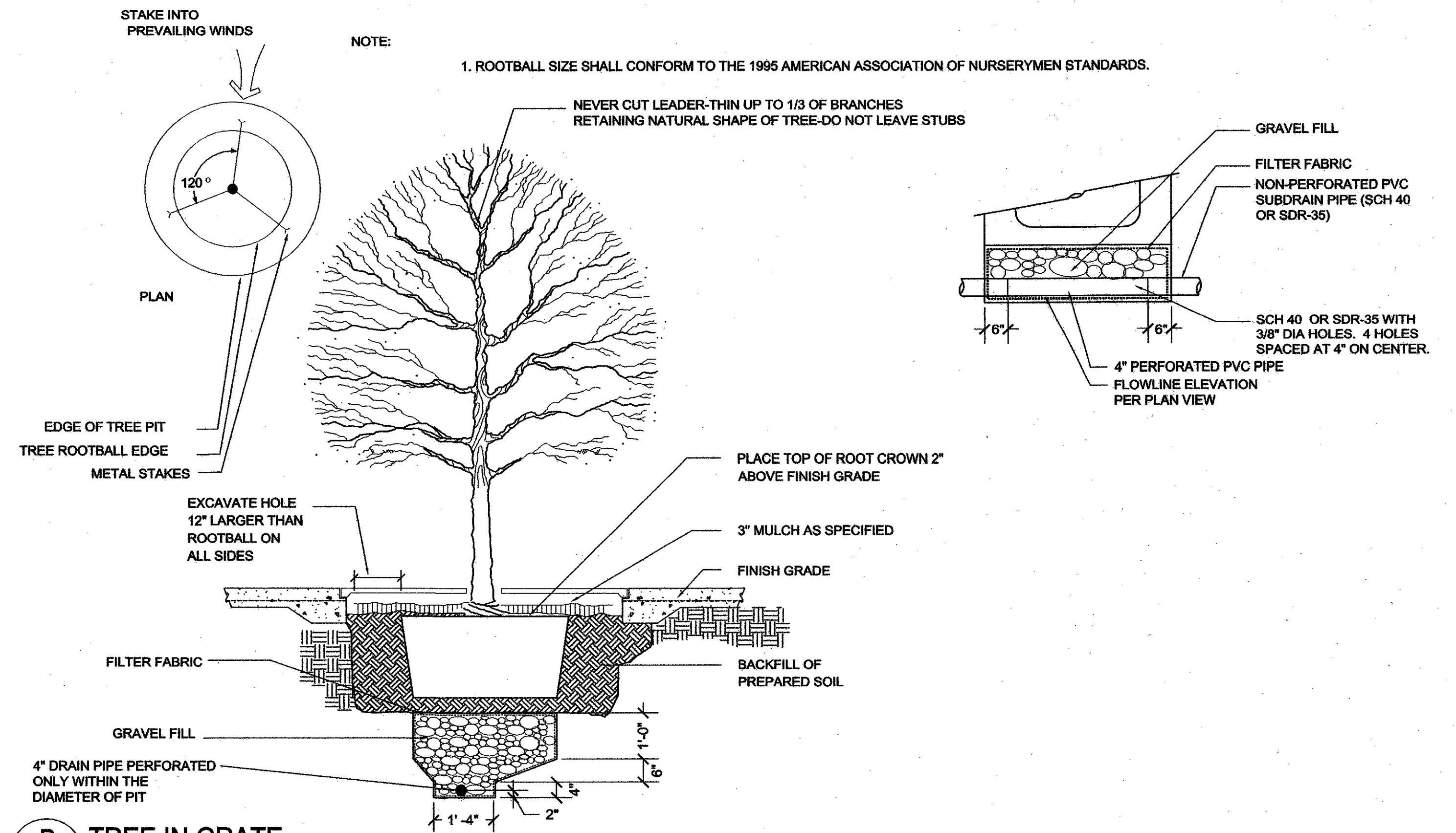


NO.		DATE	REVISION	APPROV.
HNTB ARCHITECTS ENGINEERS PLANNERS The HNTB Companies				
ARAPAHO ROAD EXTENSION				
SURVEYOR BOULEVARD TO ADDISON ROAD				
FENCE AND RETAINING WALL DETAILS				
TOWN OF ADDISON, TEXAS				
Design	DAB	Drawn	DAB	DATE
Check	MP	Check	MP	6/3/04
SCALE	PROJECT NO.		SHEET NO.	
VARIES	25768		DT-06	



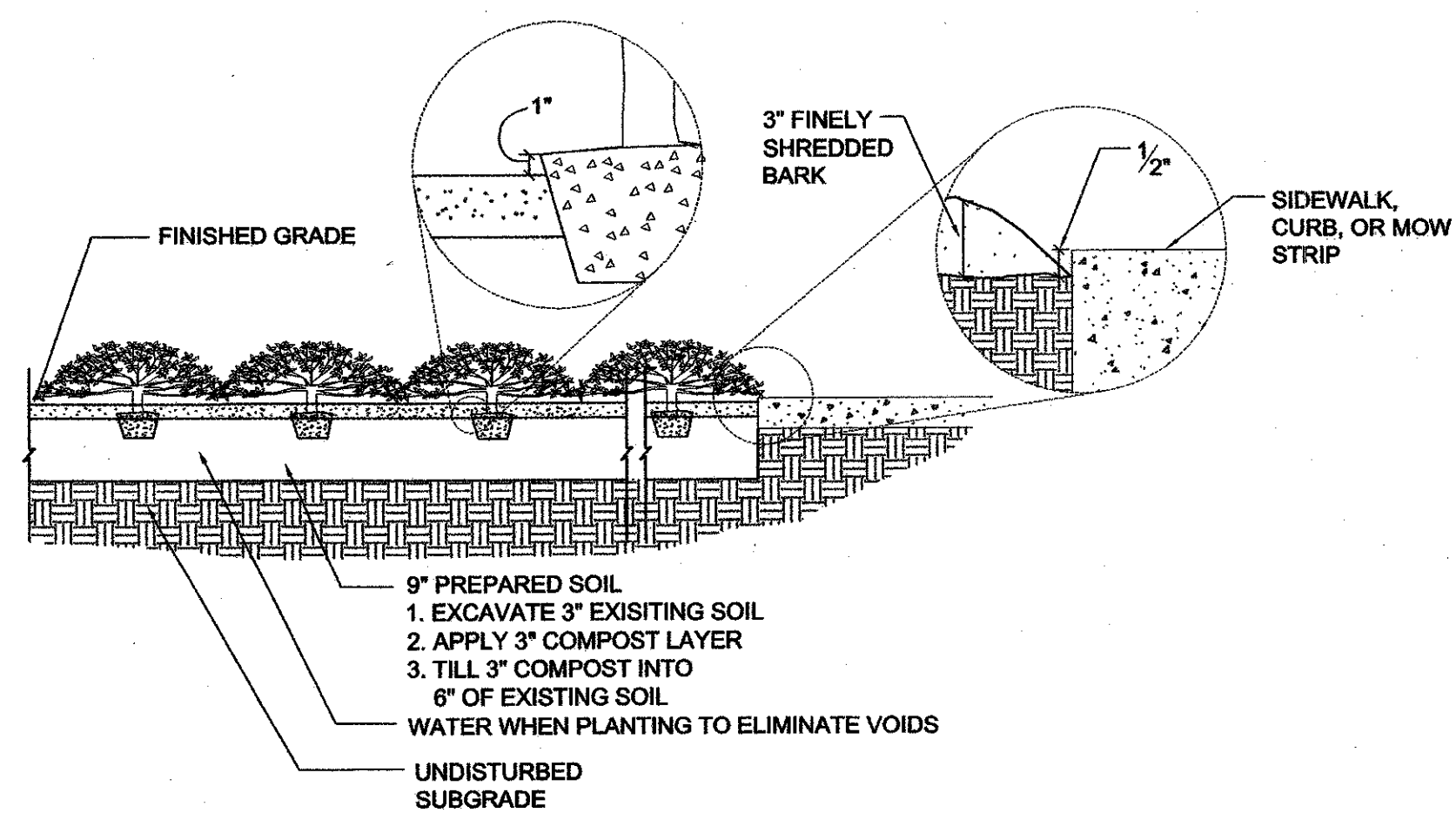
A TREE IN TURF
DT-07

SCALE: 1/2"=1'-0"



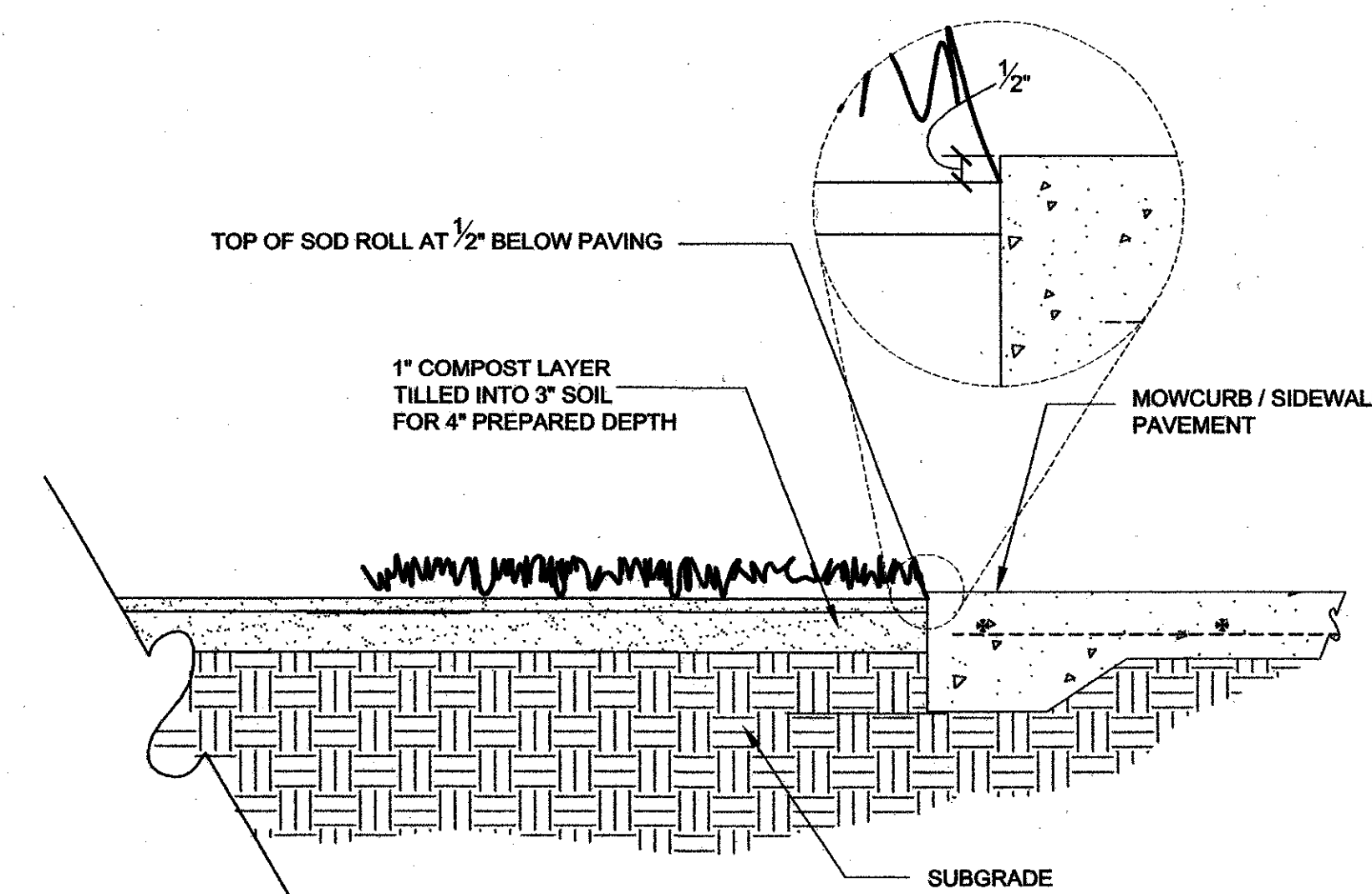
B TREE IN GRATE
DT-07

SCALE: 1/2"=1'-0"



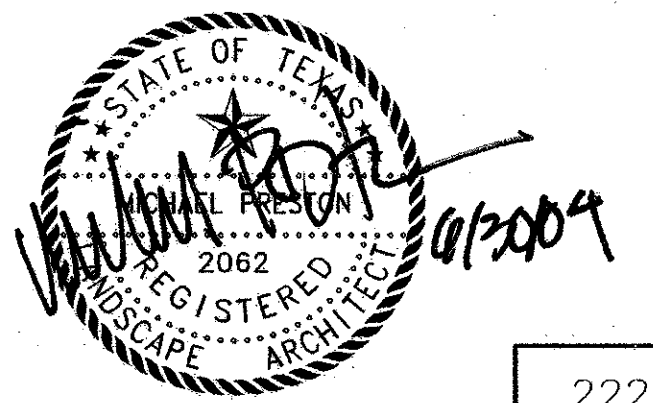
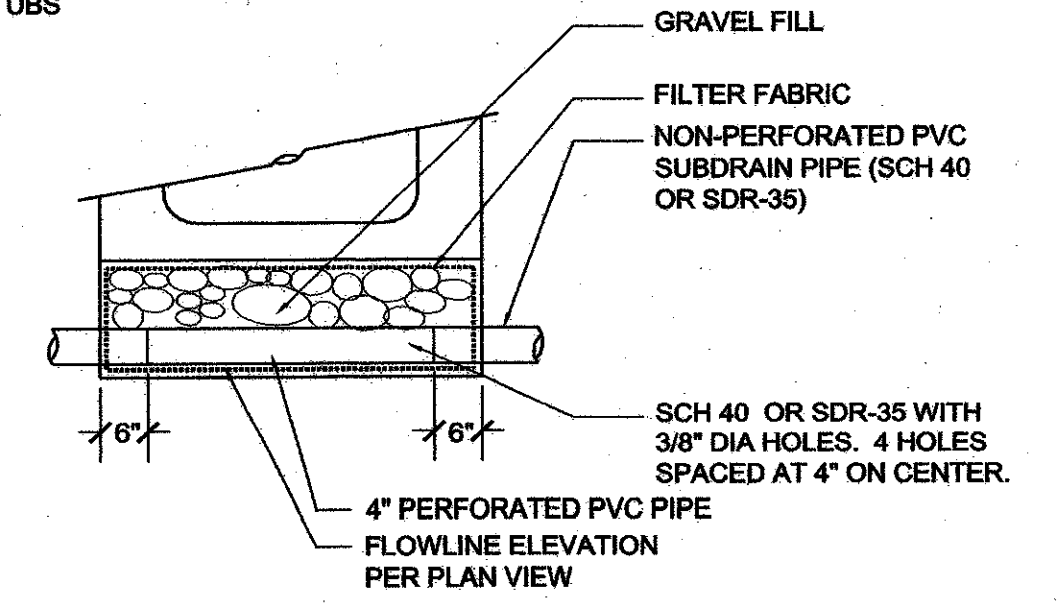
C SHRUB / GROUND COVER & ORNAMENTAL GRASS PLANTING
DT-07

SCALE: 1/2"=1'-0"

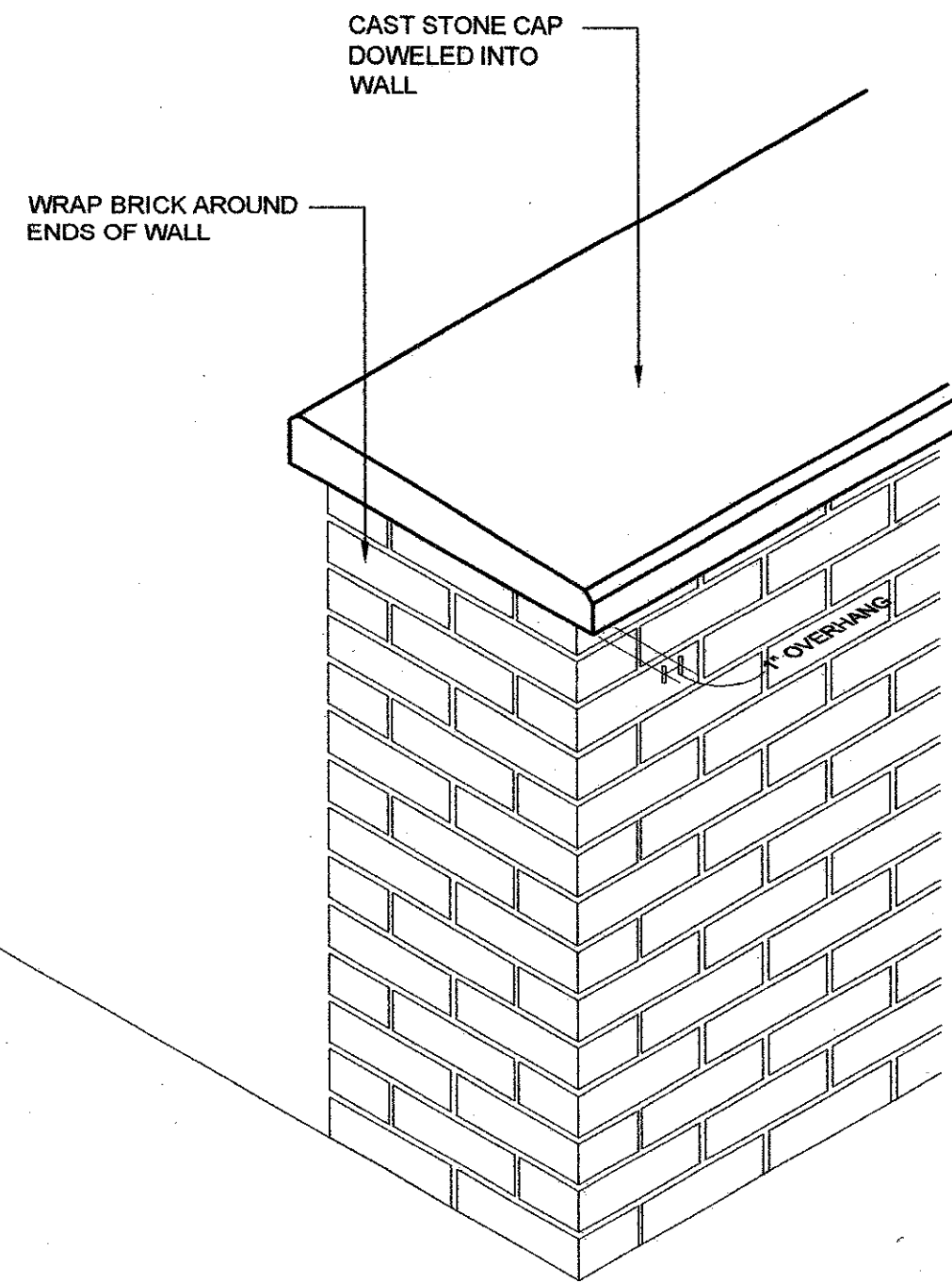


D SOD
DT-07

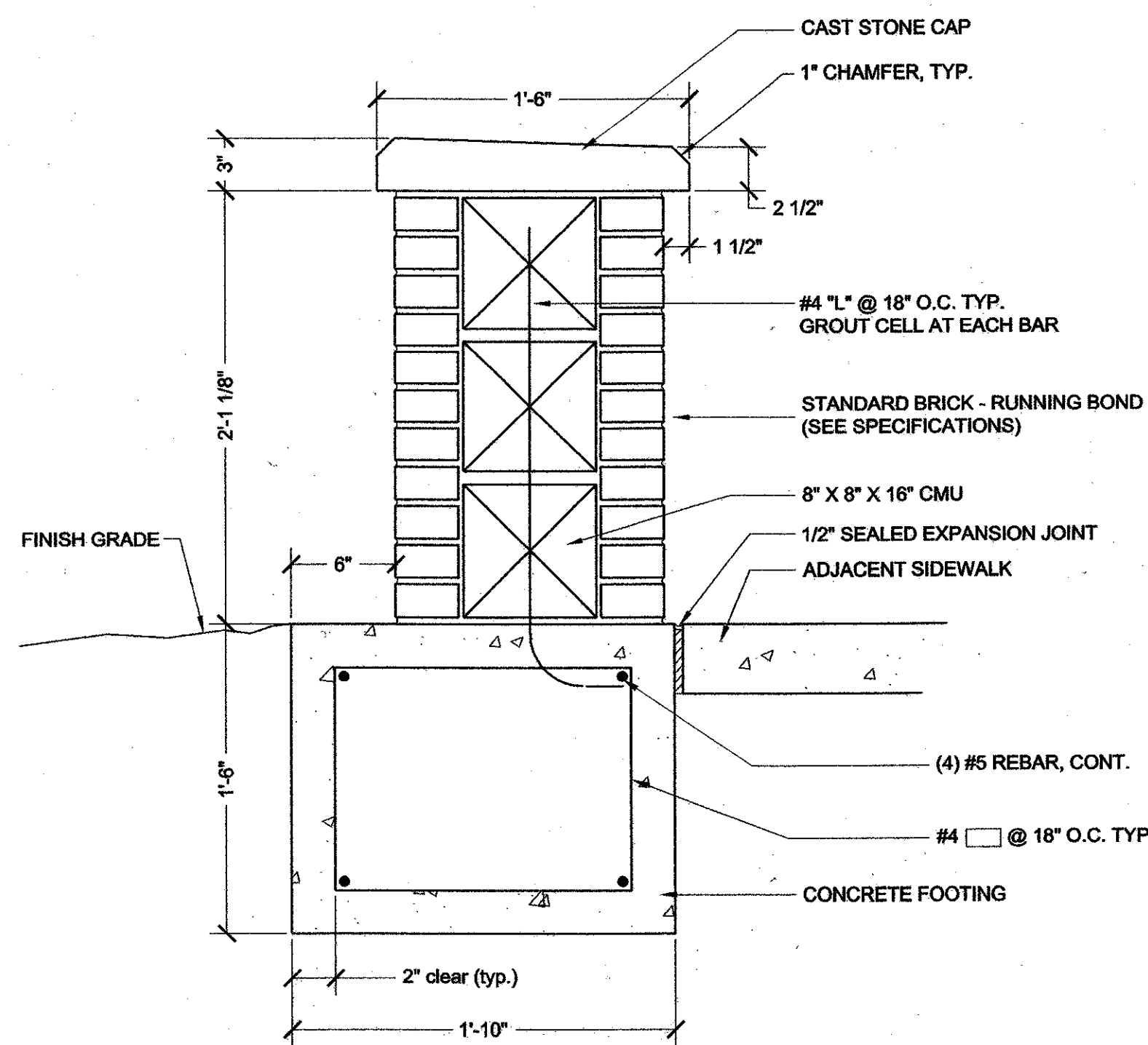
SCALE: 1"=1'-0"



NO.	DATE	REVISION	APPROV.
HNTB ARCHITECTS ENGINEERS PLANNERS The HNTB Companies			
ARAPAHO ROAD EXTENSION SURVEYOR BOULEVARD TO ADDISON ROAD			
PLANTING DETAILS			
TOWN OF ADDISON, TEXAS			
Design	DAB	Drawn	DAB
DATE	6/3/04	SCALE	VARIES
PROJECT NO.	25768	SHEET NO.	DT-07



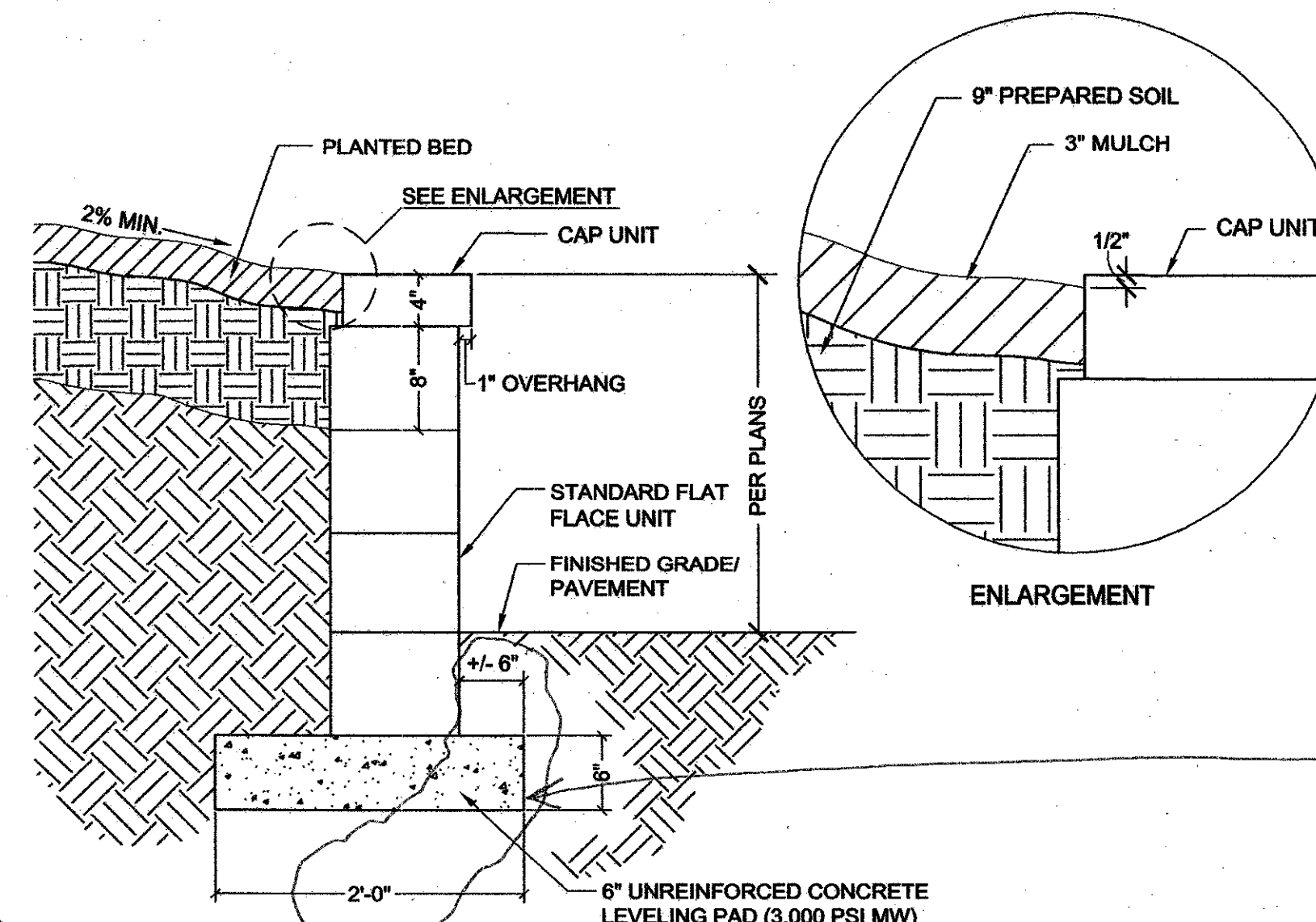
END DETAIL



SECTION

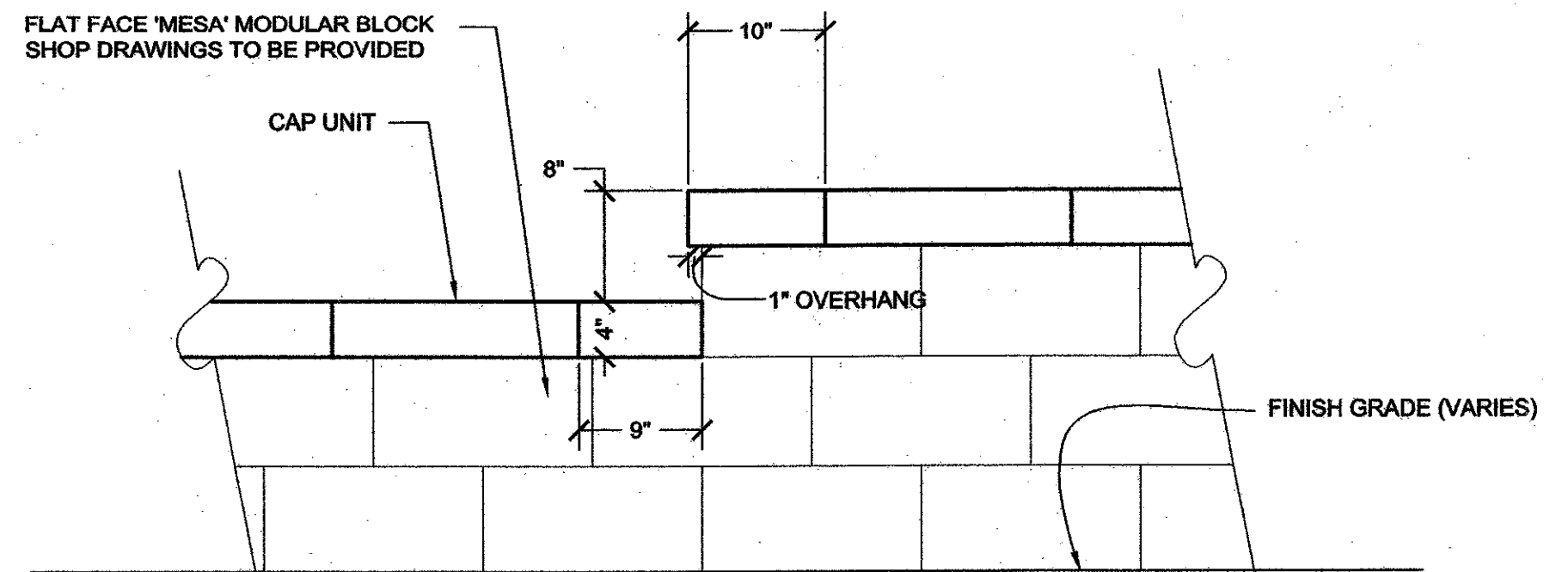
A BRICK & CMU WALL
DT-08

SCALE: 1 1/2"=1'-0"

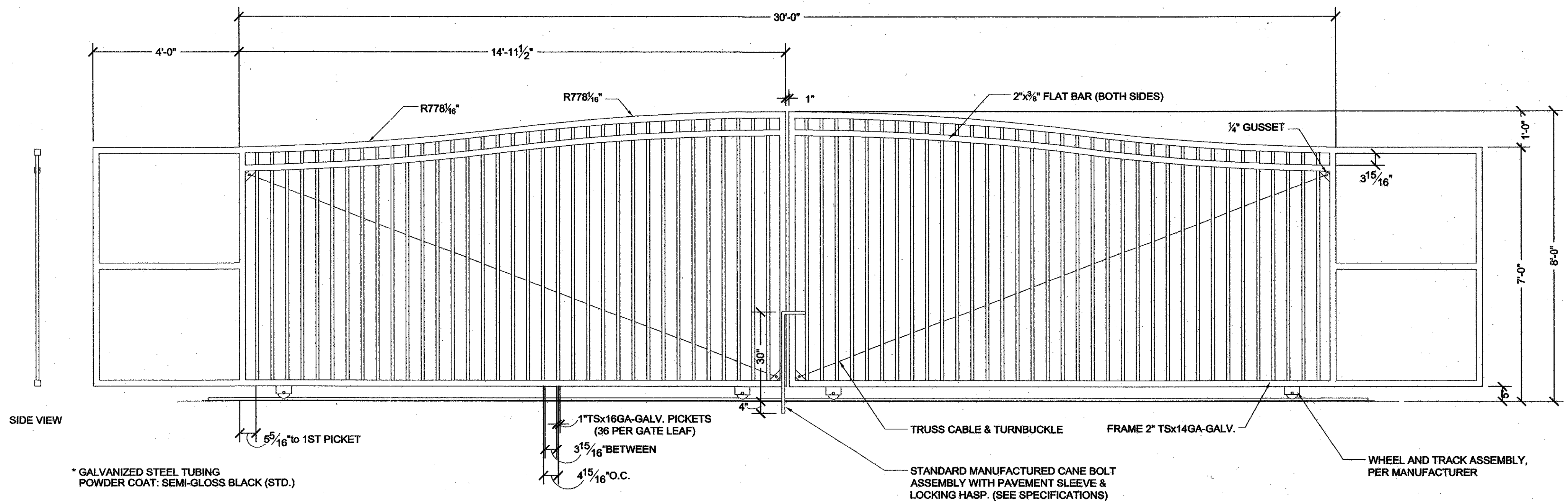


C MODULAR RETAINING WALL
DT-08

SCALE: 1"=1'-0"

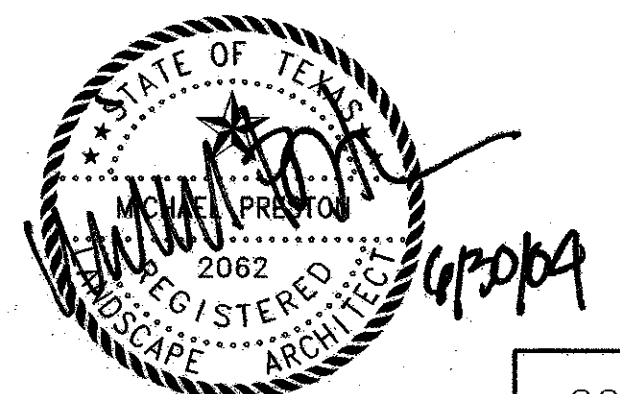


See RFI #130
Reduce width of 200' wide Level Pad to 150' in order to align Pad and Blocks with North Side of Inlet A-5B.



B DECORATIVE SECURITY GATE . V-TRACK SLIDE GATE
DT-08

SCALE: 1/4"=1'-0"



223

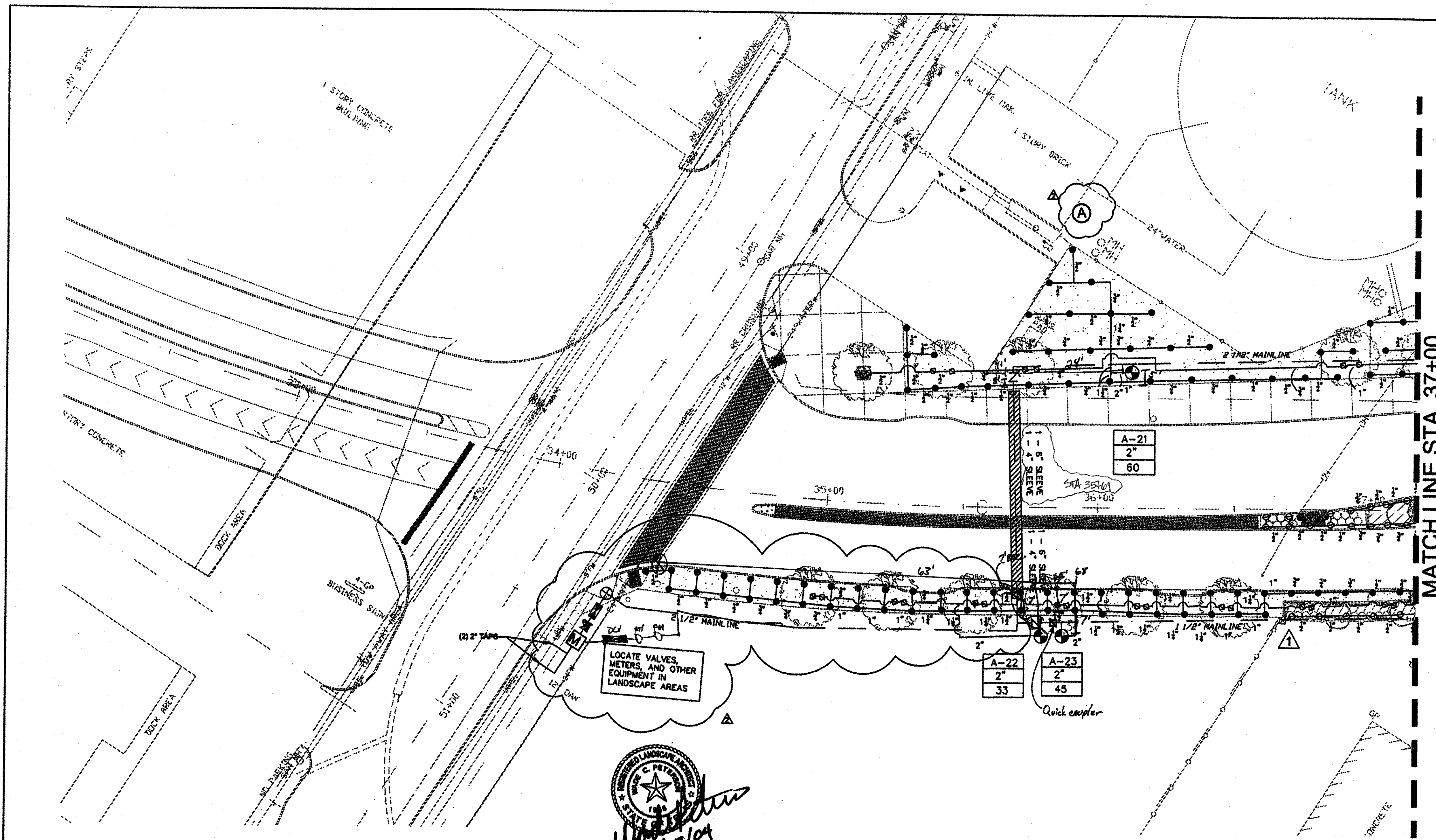
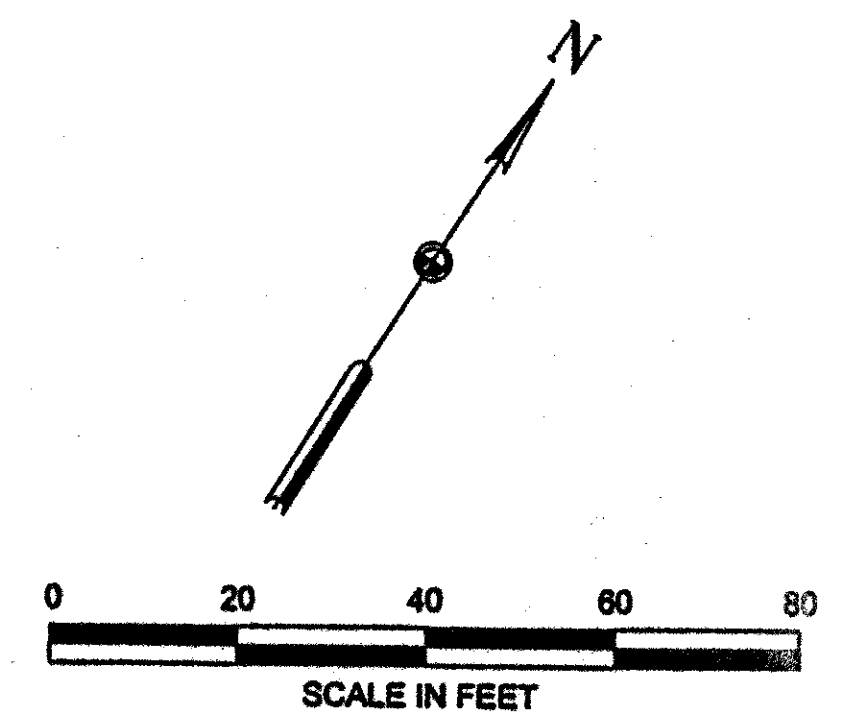
NO.	DATE	REVISION	APPROV.
6/2/04		REPLACEMENT OF SWING GATE WITH SLIDING GATE	
5/27/04		ADDITION OF MODULAR RETAINING WALL	

HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB Companies
ARAPAHO ROAD EXTENSION
SURVEYOR BOULEVARD TO ADDISON ROAD

MISC DETAILS

TOWN OF ADDISON, TEXAS

Design	Drawn	DATE	SCALE	PROJECT NO.	SHEET NO.
DAB	DAB	6/3/04	VARIES	25768	DT-08

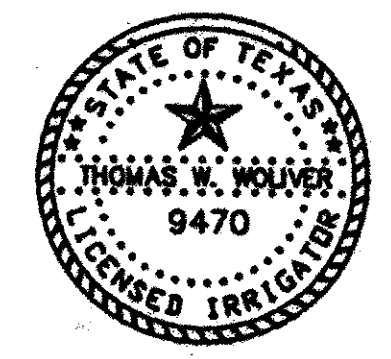


CONTRACTOR SHALL VERIFY NOZZLE SIZES IN FIELD FOR MPR AND HEAD TO HEAD COVERAGE. CONTRACTOR TO MINIMIZE OVERSPRAY. NO OVERSPRAY ONTO PAVEMENT SHALL BE ACCEPTED.

W. J. ...
01/22/04

IRRIGATION LEGEND:

- RAINBIRD 1804-PRS-SAM SERIES 4" POP-UP SPRAY - MPR NOZZLES
- RAINBIRD 1808-PRS-SAM SERIES 6" POP-UP SPRAY - MPR NOZZLES
- ⊙ RAINBIRD 1812-PRS-SAM SERIES 12" POP-UP SPRAY - MPR NOZZLES
- ◆ TORO FB-PC-80 SERIES 12" POP-UP BUBBLERS - TURF AREAS
- ◆ TORO FB-100 ON SCH 80 RISER WISHRUB ADAPTOR - TREE WELLS
- HUNTER 120-ADV SERIES - 8.0 NOZZLE
- ⊖ HUNTER 120-ADV SERIES - 4.0 NOZZLE
- ⊙ HUNTER 120-8P-ADV SERIES - 8.0 NOZZLE
- ⊖ HUNTER 120-8P-ADV SERIES - 4.0 NOZZLE
- ⊙ HUNTER 120-HP-ADV SERIES - 8.0 NOZZLE
- ⊖ HUNTER 120-HP-ADV SERIES - 4.0 NOZZLE
- ⊕ WEATHERMATIC 11000CR SERIES REMOTE CONTROL VALVE
- MANFOLDED VALVES SHALL BE SPACED 4'-0" APART
- ☑ BUCKNER QB388L07 SINGLE LUG 3/4" QUICK COUPLING VALVE
- N SPEARS PLASTIC BALL VALVE - Same size as mainline
- ⊞ WATTS 007M SERIES INLINE OCA - 2"
- M HERSEY MVR WATER METER - 2"
- A RAINMASTER EVOLUTION DX-2 CONTROLLER- ELECTRICAL POWER DISTRIBUTION AND PHONE SERVICE LINES TO THE IRRIGATION CONTROLLERS SHALL BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR. THE ELECTRICAL AND PHONE LINES (AND ALL RELATED WORK) SHALL BE INSTALLED PER ALL LOCAL, STATE, AND NATIONAL CODES.
- ⊕ FLOW METER - SAME SIZE AS MAINLINE - FS-200 DATA INDUSTRIAL FLOW METER
- SCHEDULE 40 PVC MAINLINE - REF PLAN
- Class 315 IPS or Class 200 IPS Lateral Line
- ▨ SCH 40 PVC SLEEVE - PERMANENTLY MARK CURBS WITH LOCATIONS OF SLEEVES PER CITY STANDARDS
- ☐ ZONE
- ☐ VALVE
- ☐ GPM
- ☐ CONTROLLER - STATION NUMBER
- ☐ VALVE SIZE
- ☐ GPM PER VALVE

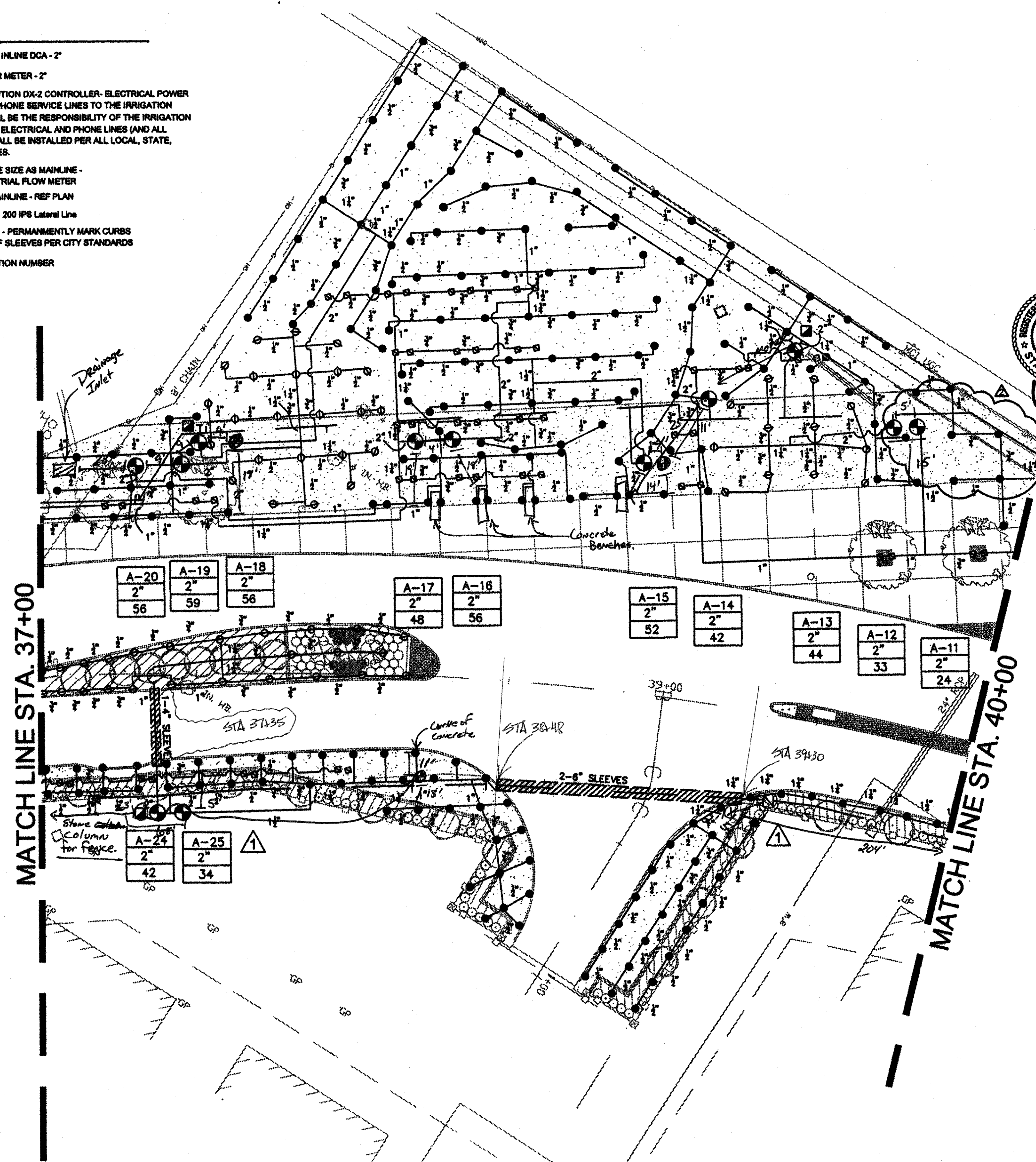
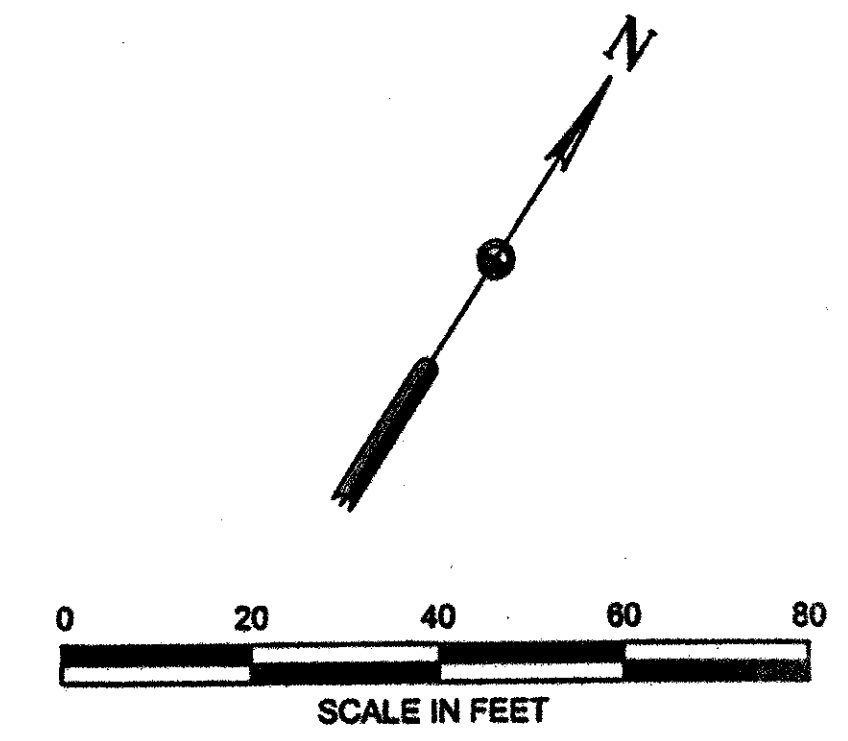


NO.		DATE	REVISION	224
1	8/27/04	REVISED IRRIGATION IN NEW PLANTING BED		APPROV.
2	10/22/04	IRRIGATION SERVICE REVISIONS		WCP
HNTB ARCHITECTS ENGINEERS PLANNERS The HNTB Companies				
ARAPAHO ROAD EXTENSION				
SURVEYOR BOULEVARD TO ADDISON ROAD				
IRRIGATION PLAN				
STA 33+87.02 TO 37+00				
TOWN OF ADDISON, TEXAS				
Design TW	Drawn TW	DATE	SCALE	PROJECT NO. SHEET NO.
Check TW	Check MP	8/31/04	VARIES	25768 IR-01

IRRIGATION LEGEND:

- RAINBIRD 1804-PRS-SAM SERIES 4" POP-UP SPRAY - MPR NOZZLES
- RAINBIRD 1806-PRS-SAM SERIES 6" POP-UP SPRAY - MPR NOZZLES
- RAINBIRD 1812-PRS-SAM SERIES 12" POP-UP SPRAY - MPR NOZZLES
- ◆ TORO FB-PC-50 SERIES 12" POP-UP BUBBLERS - TURF AREAS
- ◆ TORO FB-100 ON SCH 80 RISER W/SHRUB ADAPTOR - TREE WELLS
- HUNTER I20-ADV SERIES - 8.0 NOZZLE
- ⊖ HUNTER I20-ADV SERIES - 4.0 NOZZLE
- ⊕ HUNTER I20-6P-ADV SERIES - 8.0 NOZZLE
- ⊕ HUNTER I20-6P-ADV SERIES - 4.0 NOZZLE
- ⊕ HUNTER I20-HP-ADV SERIES - 8.0 NOZZLE
- ⊕ HUNTER I20-HP-ADV SERIES - 4.0 NOZZLE
- ⊕ WEATHERMATIC 11000CR SERIES REMOTE CONTROL VALVE
- MANIFOLDED VALVES SHALL BE SPACED 4'-0" APART
- ⊕ BUCKNER QB38L07 SINGLE LUG 3/4" QUICK COUPLING VALVE
- N SPEARS PLASTIC BALL VALVE - Same size as mainline
- WATTS 007M SERIES INLINE DCA - 2"
- ⊕ HERSEY MVR WATER METER - 2"
- ⊕ RAINMASTER EVOLUTION DX-2 CONTROLLER - ELECTRICAL POWER DISTRIBUTION AND PHONE SERVICE LINES TO THE IRRIGATION CONTROLLERS SHALL BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR. THE ELECTRICAL AND PHONE LINES (AND ALL RELATED WORK) SHALL BE INSTALLED PER ALL LOCAL, STATE, AND NATIONAL CODES.
- ⊕ FLOW METER - SAME SIZE AS MAINLINE - FS-200 DATA INDUSTRIAL FLOW METER
- SCHEDULE 40 PVC MAINLINE - REF PLAN
- Class 315 IPS or Class 200 IPS Lateral Line
- ▨ SCH 40 PVC SLEEVE - PERMANENTLY MARK CURBS WITH LOCATIONS OF SLEEVES PER CITY STANDARDS
- ⊕ ZONE VALVE
- ⊕ CONTROLLER - STATION NUMBER
- ⊕ VALVE SIZE
- ⊕ GPM PER VALVE

CONTRACTOR SHALL VERIFY NOZZLE SIZES IN FIELD FOR MPR AND HEAD TO HEAD COVERAGE. CONTRACTOR TO MINIMIZE OVERSPRAY. NO OVERSPRAY ONTO PAVEMENT SHALL BE ACCEPTED.



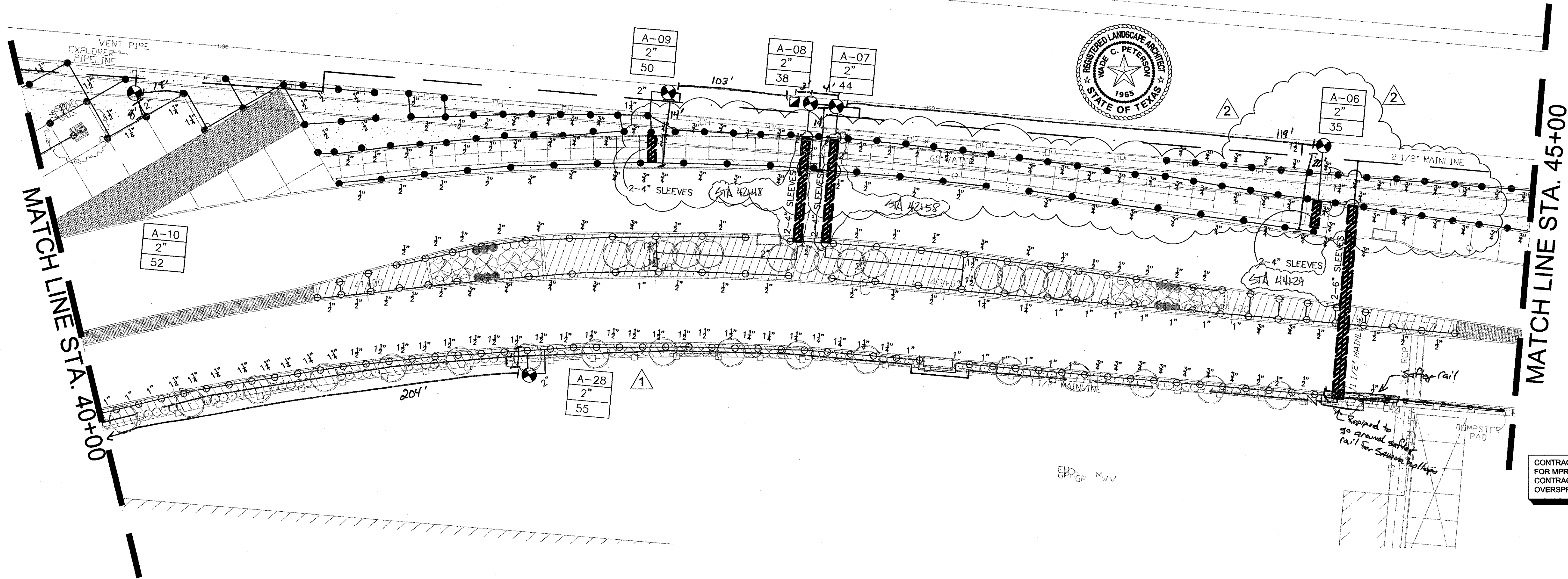
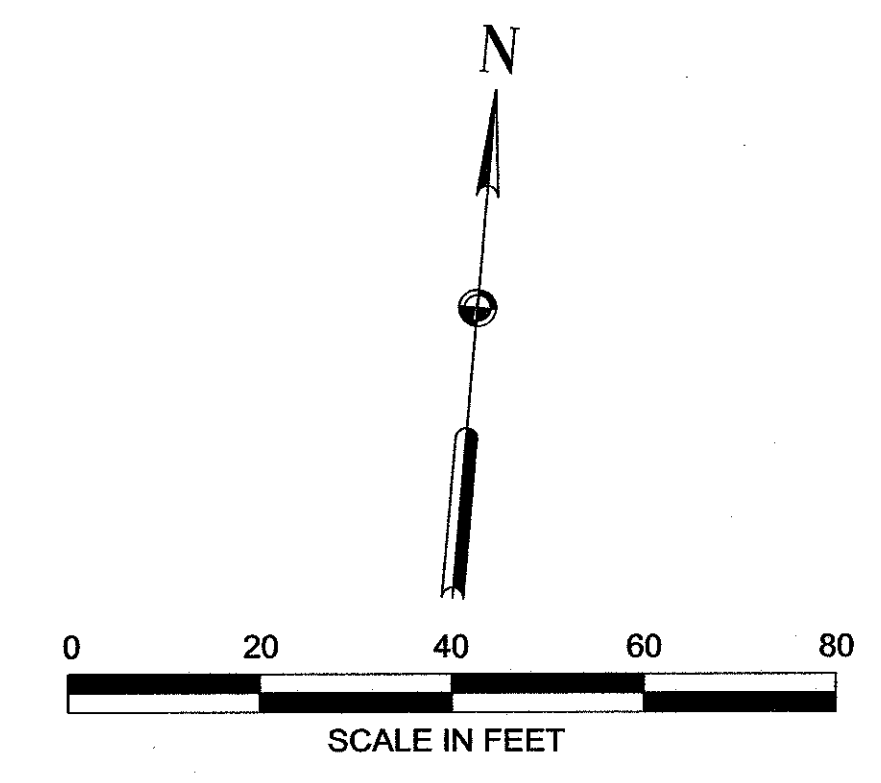
WOODHULL
8/22/04



NO.	DATE	REVISION	APPROV.
1	5/27/04	REVISED IRRIGATION IN NEW PLANTING BED	WCP
2	10/22/04	CONTROLLER RE-LOCATED FROM THIS LOCATION	WCP

HNTB ARCHITECTS ENGINEERS PLANNERS The HNTB Companies					
ARAPAHO ROAD EXTENSION					
SURVEYOR BOULEVARD TO ADDISON ROAD					
IRRIGATION PLAN					
STA 37+00 TO 40+00					
TOWN OF ADDISON, TEXAS					
Design TW	Drawn TW	DATE	SCALE	PROJECT NO.	SHEET NO.
Check TW	Check MP	6/3/04	VARIES	25788	IR-02

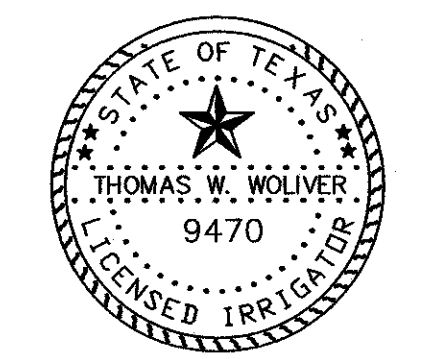
225



CONTRACTOR SHALL VERIFY NOZZLE SIZES IN FIELD FOR MPR AND HEAD TO HEAD COVERAGE. CONTRACTOR TO MINIMIZE OVERSPRAY. NO OVERSPRAY ONTO PAVEMENT SHALL BE ACCEPTED.

IRRIGATION LEGEND:

- RAINBIRD 1804-PRS-SAM SERIES 4" POP-UP SPRAY - MPR NOZZLES
- RAINBIRD 1806-PRS-SAM SERIES 6" POP-UP SPRAY - MPR NOZZLES
- ⊙ RAINBIRD 1812-PRS-SAM SERIES 12" POP-UP SPRAY - MPR NOZZLES
- ◇ TORO FB-PC-50 SERIES 12" POP-UP BUBBLERS - TURF AREAS
- ◇ TORO FB-100 ON SCH 80 RISER W/SHRUB ADAPTOR - TREE WELLS
- HUNTER I20-ADV SERIES - 8.0 NOZZLE
- ⊖ HUNTER I20-ADV SERIES - 4.0 NOZZLE
- ⊕ HUNTER I20-6P-ADV SERIES - 8.0 NOZZLE
- ⊕ HUNTER I20-6P-ADV SERIES - 4.0 NOZZLE
- ⊕ HUNTER I20-HP-ADV SERIES - 8.0 NOZZLE
- ⊕ HUNTER I20-HP-ADV SERIES - 4.0 NOZZLE
- ⊕ WEATHERMATIC 11000CR SERIES REMOTE CONTROL VALVE
- MANIFOLDED VALVES SHALL BE SPACED 4'-0" APART
- ☑ BUCKNER QB3SBL07 SINGLE LUG 3/4" QUICK COUPLING VALVE
- N SPEARS PLASTIC BALL VALVE - Same size as mainline
- ⊠ WATTS 007M SERIES INLINE DCA - 2"
- M HERSEY MVR WATER METER - 2"
- A RAINMASTER EVOLUTION DX-2 CONTROLLER- ELECTRICAL POWER DISTRIBUTION AND PHONE SERVICE LINES TO THE IRRIGATION CONTROLLERS SHALL BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR. THE ELECTRICAL AND PHONE LINES (AND ALL RELATED WORK) SHALL BE INSTALLED PER ALL LOCAL, STATE, AND NATIONAL CODES.
- ⊕ FLOW METER - SAME SIZE AS MAINLINE - FS-200 DATA INDUSTRIAL FLOW METER
- SCHEDULE 40 PVC MAINLINE - REF PLAN
- Class 315 IPS or Class 200 IPS Lateral Line
- ▨ SCH 40 PVC SLEEVE - PERMANENTLY MARK CURBS WITH LOCATIONS OF SLEEVES PER CITY STANDARDS
- ZONE CONTROLLER - STATION NUMBER
- VALVE VALVE SIZE
- GPM GPM PER VALVE



226

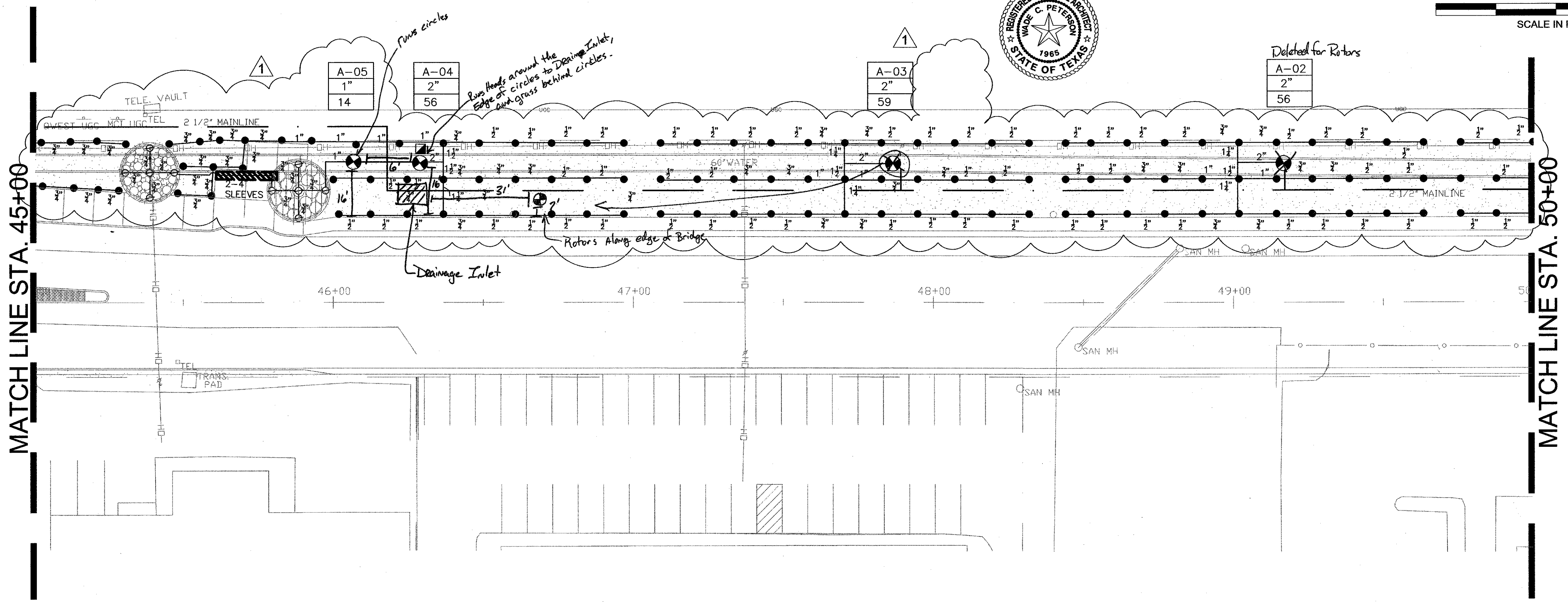
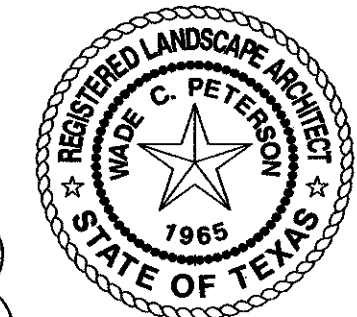
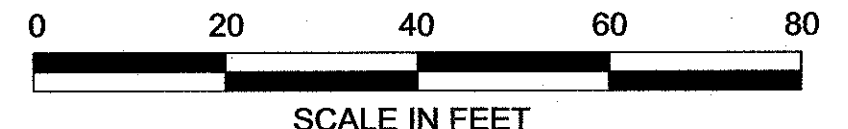
NO.	DATE	REVISION	APPROV.
1/06/05		REVISED IRRIGATION	
5/27/04		REVISED IRRIGATION IN NEW PLANTING BED	

HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB Companies

ARAPAHO ROAD EXTENSION
SURVEYOR BOULEVARD TO ADDISON ROAD

IRRIGATION PLAN
STA 40+00 TO 45+00

TOWN OF ADDISON, TEXAS					
Design	Drawn	DATE	SCALE	PROJECT NO.	SHEET NO.
TW	TW	6/3/04	VARIES	25768	IR-03
Check	Check				
TW	MP				



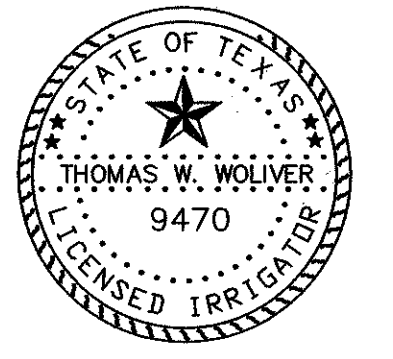
MATCH LINE STA. 45+00

MATCH LINE STA. 50+00

CONTRACTOR SHALL VERIFY NOZZLE SIZES IN FIELD FOR MPR AND HEAD TO HEAD COVERAGE. CONTRACTOR TO MINIMIZE OVERSPRAY. NO OVERSPRAY ONTO PAVEMENT SHALL BE ACCEPTED.

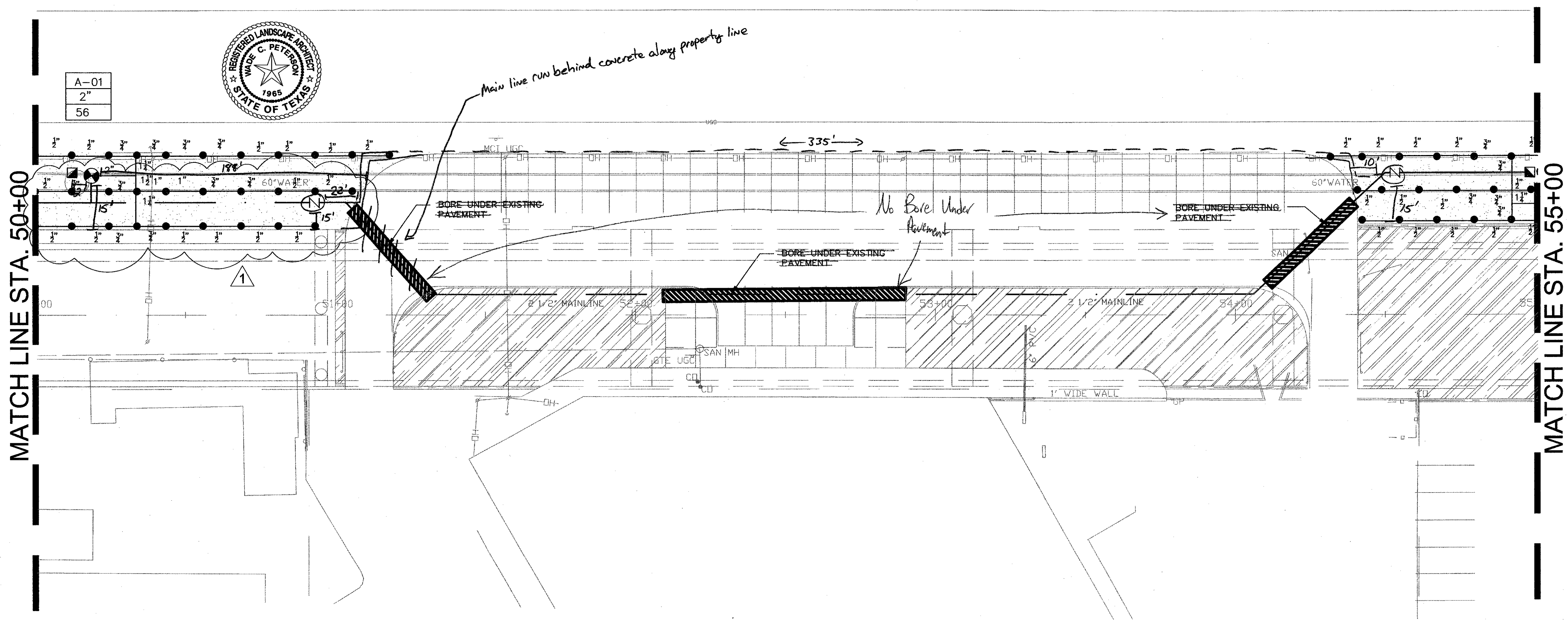
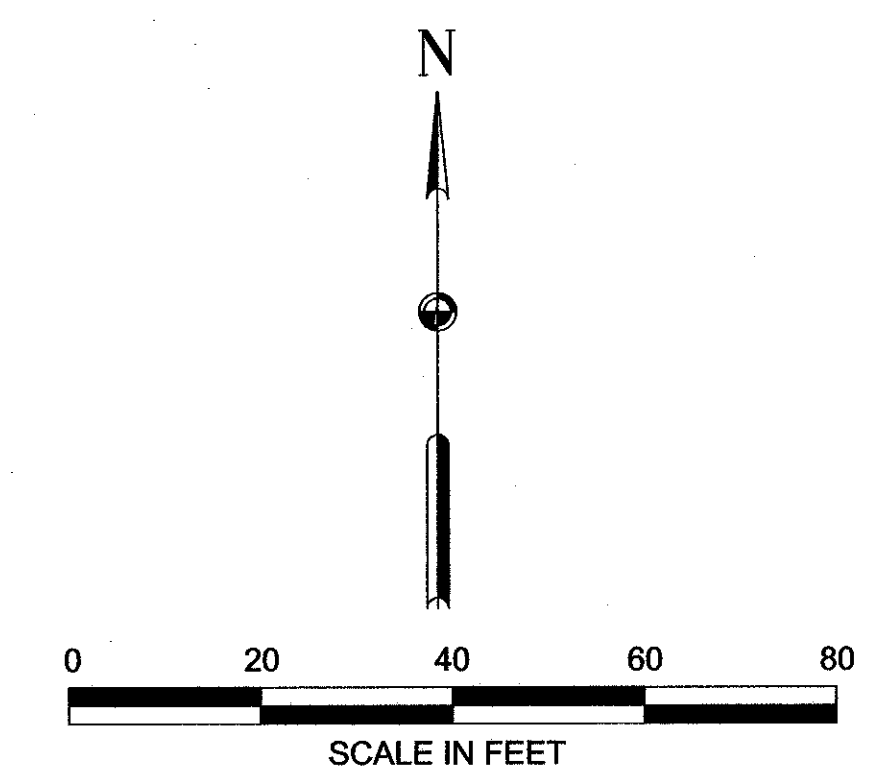
IRRIGATION LEGEND:

- RAINBIRD 1804-PRS-SAM SERIES 4" POP-UP SPRAY - MPR NOZZLES
- RAINBIRD 1806-PRS-SAM SERIES 6" POP-UP SPRAY - MPR NOZZLES
- RAINBIRD 1812-PRS-SAM SERIES 12" POP-UP SPRAY - MPR NOZZLES
- ◇ TORO FB-PC-50 SERIES 12" POP-UP BUBBLERS - TURF AREAS
- ◇ TORO FB-100 ON SCH 80 RISER W/SHRUB ADAPTOR - TREE WELLS
- HUNTER I20-ADV SERIES - 8.0 NOZZLE
- HUNTER I20-ADV SERIES - 4.0 NOZZLE
- HUNTER I20-6P-ADV SERIES - 8.0 NOZZLE
- HUNTER I20-6P-ADV SERIES - 4.0 NOZZLE
- HUNTER I20-HP-ADV SERIES - 8.0 NOZZLE
- HUNTER I20-HP-ADV SERIES - 4.0 NOZZLE
- ⊕ WEATHERMATIC 11000CR SERIES REMOTE CONTROL VALVE
- MANIFOLDED VALVES SHALL BE SPACED 4'-0" APART
- BUCKNER QB3SBL07 SINGLE LUG 3/4" QUICK COUPLING VALVE
- N SPEARS PLASTIC BALL VALVE - Same size as mainline
- ⊞ WATTS 007M SERIES INLINE DCA - 2"
- M HERSEY MVR WATER METER - 2"
- A RAINMASTER EVOLUTION DX-2 CONTROLLER- ELECTRICAL POWER DISTRIBUTION AND PHONE SERVICE LINES TO THE IRRIGATION CONTROLLERS SHALL BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR. THE ELECTRICAL AND PHONE LINES (AND ALL RELATED WORK) SHALL BE INSTALLED PER ALL LOCAL, STATE, AND NATIONAL CODES.
- ⊕ FLOW METER - SAME SIZE AS MAINLINE - FS-200 DATA INDUSTRIAL FLOW METER
- SCHEDULE 40 PVC MAINLINE - REF PLAN
- Class 315 IPS or Class 200 IPS Lateral Line
- ▨ SCH 40 PVC SLEEVE - PERMANENTLY MARK CURBS WITH LOCATIONS OF SLEEVES PER CITY STANDARDS
- ☐ ZONE
- ☐ VALVE
- ☐ GPM
- ☐ CONTROLLER - STATION NUMBER
- ☐ VALVE SIZE
- ☐ GPM PER VALVE



NO.	DATE	REVISION	APPROV.
1/06/05		REVISED IRRIGATION	
HNTB ARCHITECTS ENGINEERS PLANNERS The HNTB Companies			
ARAPAHO ROAD EXTENSION			
SURVEYOR BOULEVARD TO ADDISON ROAD			
IRRIGATION PLAN STA 45+00 TO 50+00			
TOWN OF ADDISON, TEXAS			
Design TW	Drawn TW	DATE	SCALE
Check TW	Check MP	6/3/04	VARIES
PROJECT NO.	25768	SHEET NO.	IR-04

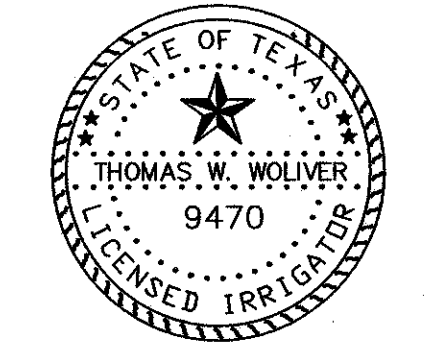
227



CONTRACTOR SHALL VERIFY NOZZLE SIZES IN FIELD FOR MPR AND HEAD TO HEAD COVERAGE. CONTRACTOR TO MINIMIZE OVERSPRAY. NO OVERSPRAY ONTO PAVEMENT SHALL BE ACCEPTED.

IRRIGATION LEGEND:

- RAINBIRD 1804-PRS-SAM SERIES 4" POP-UP SPRAY - MPR NOZZLES
- RAINBIRD 1806-PRS-SAM SERIES 6" POP-UP SPRAY - MPR NOZZLES
- RAINBIRD 1812-PRS-SAM SERIES 12" POP-UP SPRAY - MPR NOZZLES
- ◇ TORO FB-PC-50 SERIES 12" POP-UP BUBBLERS - TURF AREAS
- ◇ TORO FB-100 ON SCH 80 RISER W/SHRUB ADAPTOR - TREE WELLS
- HUNTER I20-ADV SERIES - 8.0 NOZZLE
- ⊖ HUNTER I20-ADV SERIES - 4.0 NOZZLE
- ◇ HUNTER I20-6P-ADV SERIES - 8.0 NOZZLE
- ◇ HUNTER I20-6P-ADV SERIES - 4.0 NOZZLE
- △ HUNTER I20-HP-ADV SERIES - 8.0 NOZZLE
- △ HUNTER I20-HP-ADV SERIES - 4.0 NOZZLE
- ⊕ WEATHERMATIC 11000CR SERIES REMOTE CONTROL VALVE
- MANIFOLDED VALVES SHALL BE SPACED 4'-0" APART
- BUCKNER QB3SBL07 SINGLE LUG 3/4" QUICK COUPLING VALVE
- N SPEARS PLASTIC BALL VALVE - Same size as mainline
- ▬ WATTS 007M SERIES INLINE DCA - 2"
- M HERSEY MVR WATER METER - 2"
- A RAINMASTER EVOLUTION DX-2 CONTROLLER-ELECTRICAL POWER DISTRIBUTION AND PHONE SERVICE LINES TO THE IRRIGATION CONTROLLERS SHALL BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR. THE ELECTRICAL AND PHONE LINES (AND ALL RELATED WORK) SHALL BE INSTALLED PER ALL LOCAL, STATE, AND NATIONAL CODES.
- ⊕ FLOW METER - SAME SIZE AS MAINLINE - FS-200 DATA INDUSTRIAL FLOW METER
- ▬ SCHEDULE 40 PVC MAINLINE - REF PLAN
- ▬ Class 315 IPS or Class 200 IPS Lateral Line
- ▨ SCH 40 PVC SLEEVE - PERMANENTLY MARK CURBS WITH LOCATIONS OF SLEEVES PER CITY STANDARDS
- ZONE CONTROLLER - STATION NUMBER
- VALVE VALVE SIZE
- GPM GPM PER VALVE



NO.	DATE	REVISION	APPROV.
1	1/06/05	REVISED IRRIGATION	

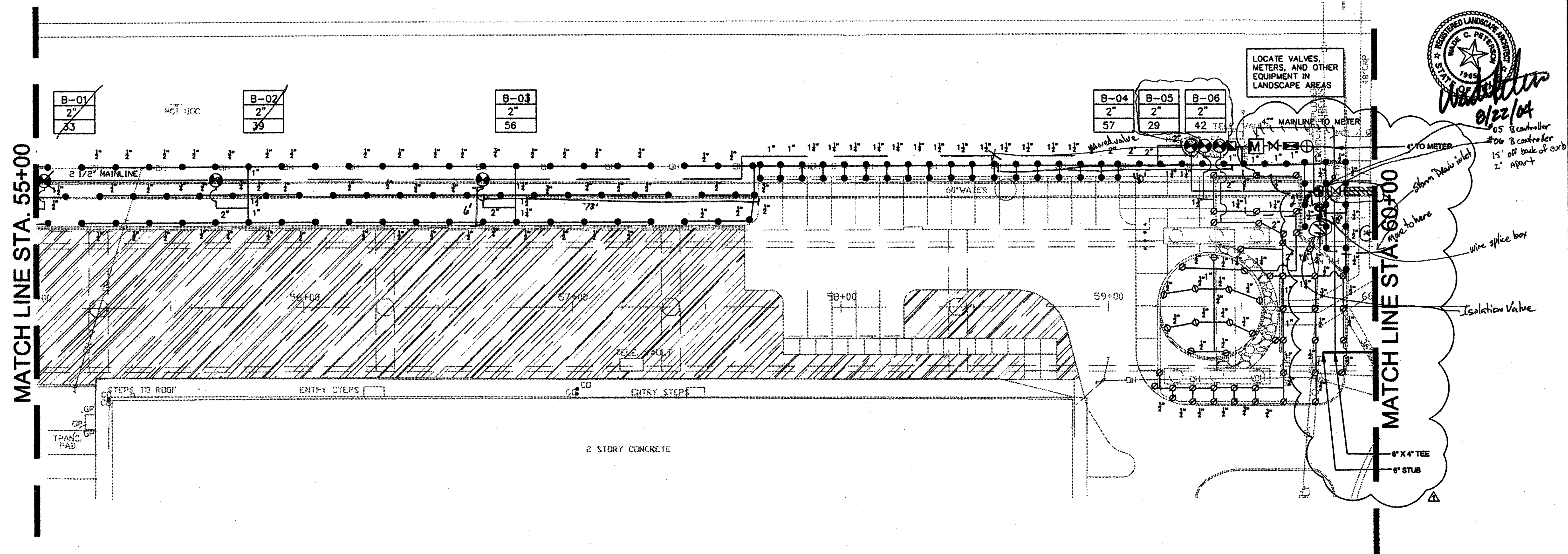
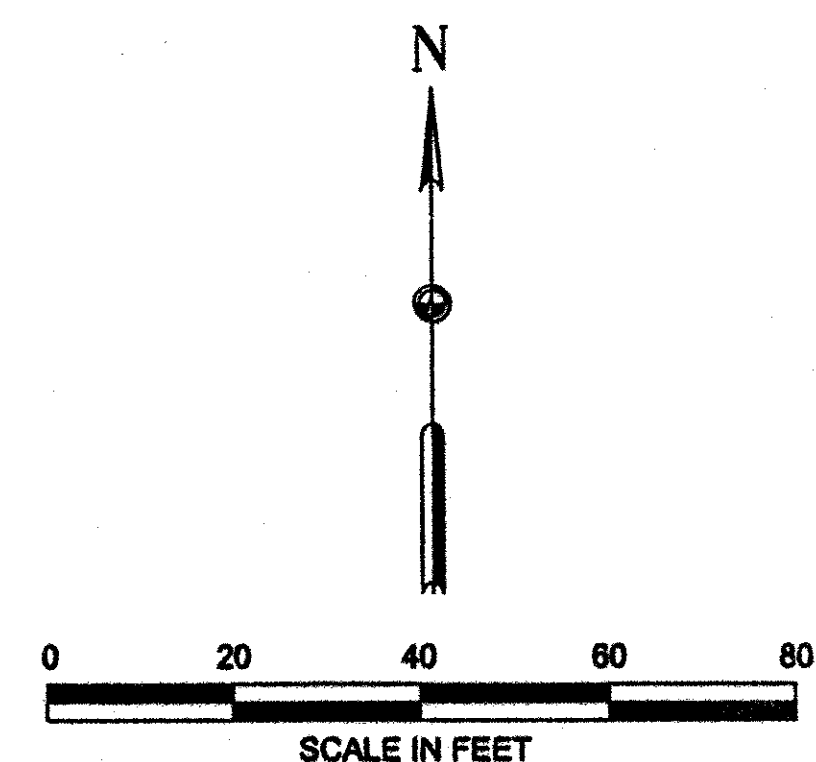
228

HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB Companies

ARAPAHO ROAD EXTENSION
SURVEYOR BOULEVARD TO ADDISON ROAD
IRRIGATION PLAN
STA 50+00 TO 55+00

TOWN OF ADDISON, TEXAS

Design	TW	Drawn	TW	DATE	6/3/04	SCALE	VARIES	PROJECT NO.	25768	SHEET NO.	IR-05
Check	TW	Check	MP	DATE	6/3/04	SCALE	VARIES	PROJECT NO.	25768	SHEET NO.	IR-05



MATCH LINE STA. 55+00

MATCH LINE STA. 60+00

LOCATE VALVES, METERS, AND OTHER EQUIPMENT IN LANDSCAPE AREAS



#05 B controller
#06 B controller
15' off back of curb
2' apart

Shawn Mack inlet
wire splice box

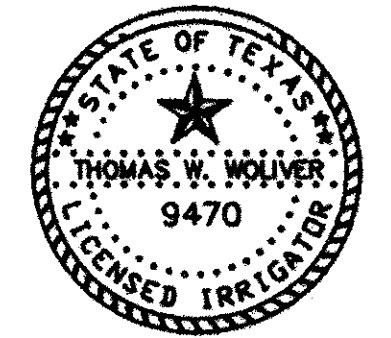
Isolation Valve

8" X 4" TEE
8" STUB

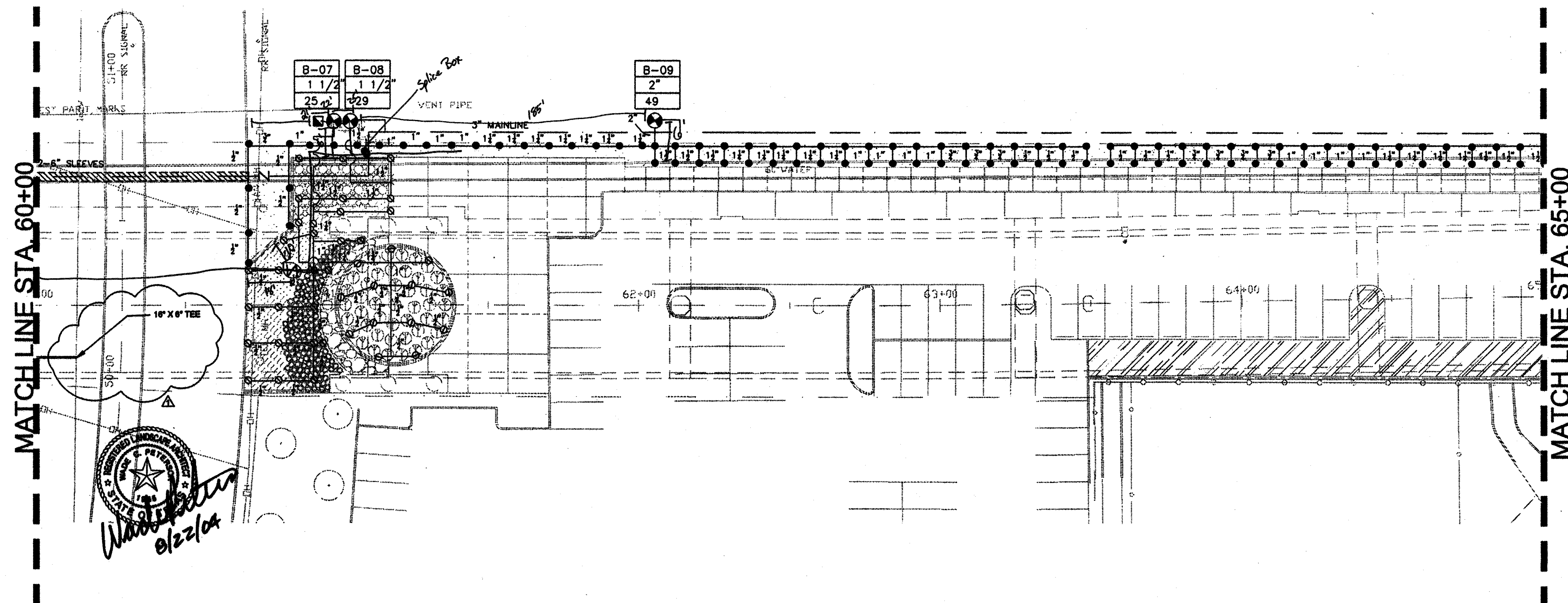
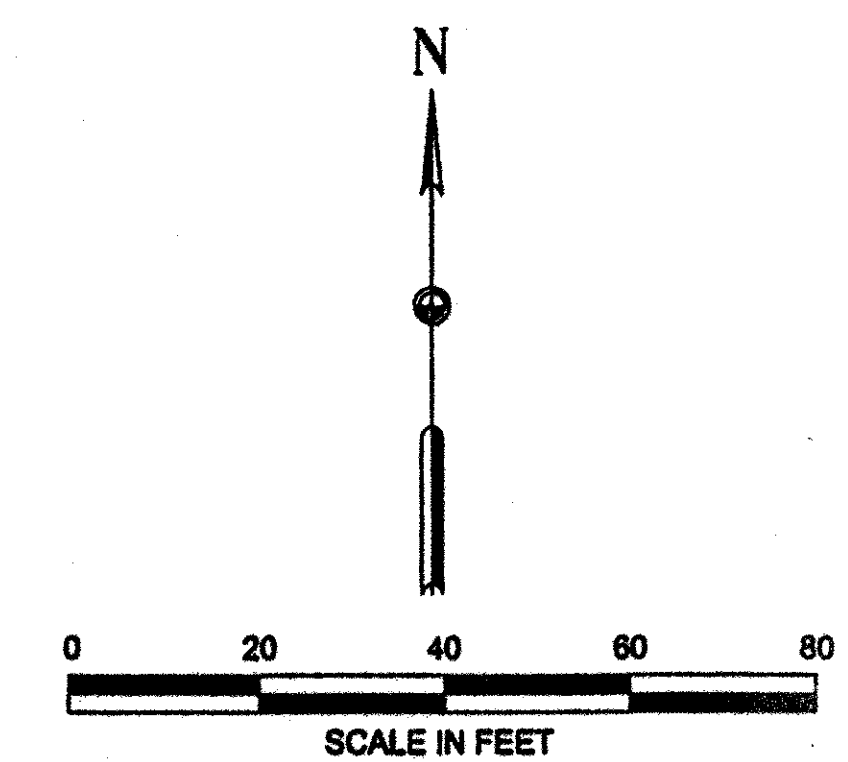
CONTRACTOR SHALL VERIFY NOZZLE SIZES IN FIELD FOR MPR AND HEAD TO HEAD COVERAGE. CONTRACTOR TO MINIMIZE OVERSPRAY. NO OVERSPRAY ONTO PAVEMENT SHALL BE ACCEPTED.

IRRIGATION LEGEND:

- RAINBIRD 1804-PRS-SAM SERIES 4" POP-UP SPRAY - MPR NOZZLES
- RAINBIRD 1806-PRS-SAM SERIES 6" POP-UP SPRAY - MPR NOZZLES
- ⊙ RAINBIRD 1812-PRS-SAM SERIES 12" POP-UP SPRAY - MPR NOZZLES
- ◆ TORO FB-PC-60 SERIES 12" POP-UP BUBBLERS - TURF AREAS
- ◆ TORO FB-100 ON SCH 80 RISER W/SHRUB ADAPTOR - TREE WELLS
- HUNTER I20-ADV SERIES - 8.0 NOZZLE
- ⊖ HUNTER I20-ADV SERIES - 4.0 NOZZLE
- ⊕ HUNTER I20-6P-ADV SERIES - 8.0 NOZZLE
- ⊕ HUNTER I20-6P-ADV SERIES - 4.0 NOZZLE
- △ HUNTER I20-HP-ADV SERIES - 8.0 NOZZLE
- △ HUNTER I20-HP-ADV SERIES - 4.0 NOZZLE
- ⊕ WEATHERMATIC 11000CR SERIES REMOTE CONTROL VALVE
- MANIFOLDED VALVES SHALL BE SPACED 4'-0" APART
- ⊕ BUCKNER Q838L07 SINGLE LUG 3/4" QUICK COUPLING VALVE
- N SPEARS PLASTIC BALL VALVE - Same size as mainline
- WATTS 007M SERIES INLINE DCA - 2"
- M HERSEY MVR WATER METER - 2"
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- ⊕ FLOW METER - SAME SIZE AS MAINLINE - FS-200 DATA INDUSTRIAL FLOW METER
- SCHEDULE 40 PVC MAINLINE - REF PLAN
- Class 316 IPB or Class 200 IPB Lateral Line
- ▨ SCH 40 PVC SLEEVE - PERMANENTLY MARK CURBS WITH LOCATIONS OF SLEEVES PER CITY STANDARDS
- ⊕ ZONE VALVE CONTROLLER - STATION NUMBER
- ⊕ VALVE SIZE
- ⊕ GPM GPM PER VALVE



NO.		DATE	REVISION	APPROV.
1	10/22/04	IRRIGATION SERVICE REVISIONS	WCP	
HNTB ARCHITECTS ENGINEERS PLANNERS The HNTB Companies ARAPAHO ROAD EXTENSION SURVEYOR BOULEVARD TO ADDISON ROAD IRRIGATION PLAN STA 55+00 TO 60+00 TOWN OF ADDISON, TEXAS				229
Design	TW	Drawn	TW	DATE
Check	TW	Check	MP	6/3/04
SCALE	PROJECT NO.		SHEET NO.	
VARIABLES	25788	IR-06		



MATCHLINE STA. 60+00

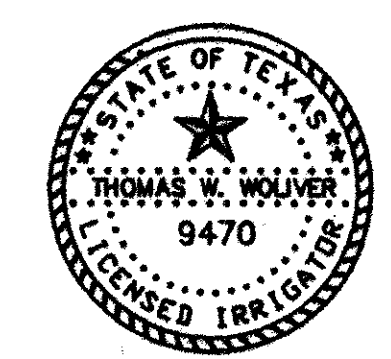
MATCHLINE STA. 65+00

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 9/22/04

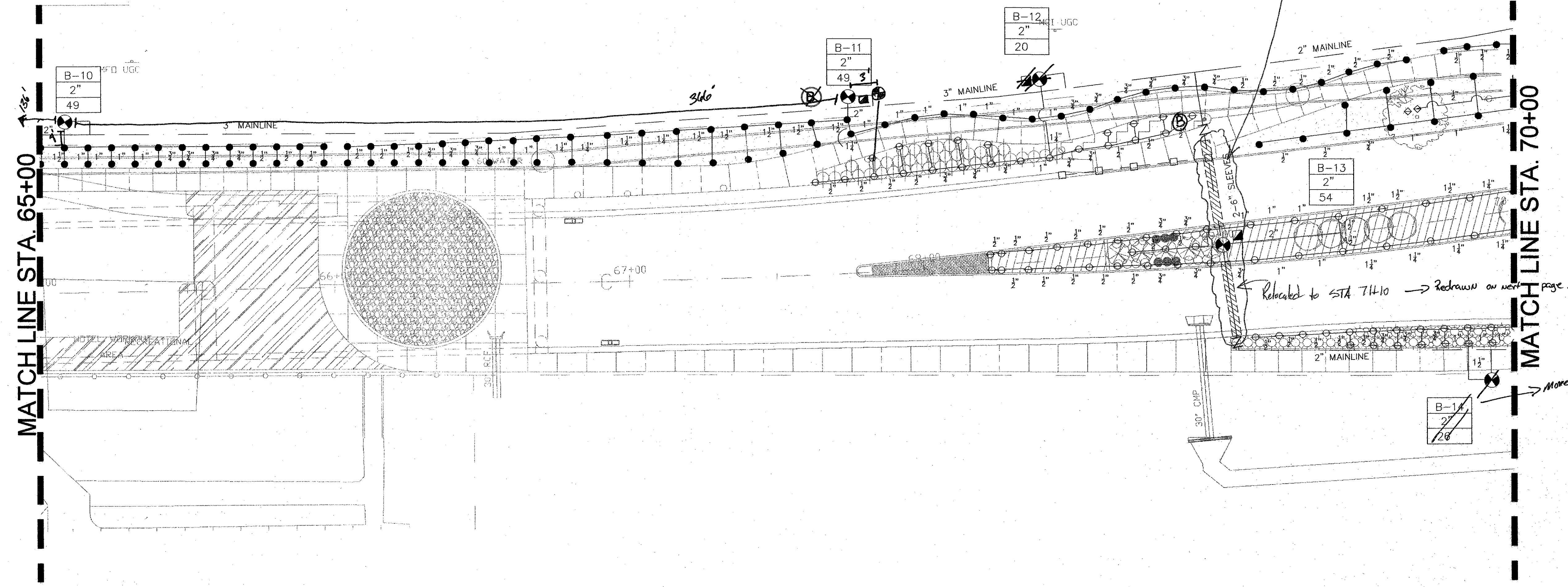
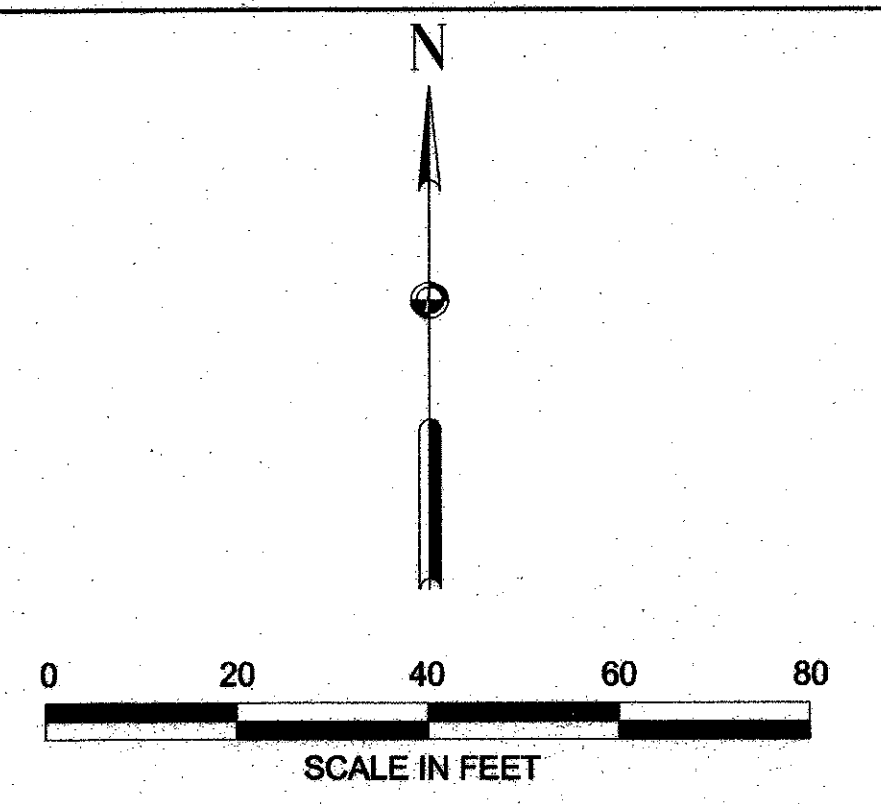
CONTRACTOR SHALL VERIFY NOZZLE SIZES IN FIELD FOR MPR AND HEAD TO HEAD COVERAGE. CONTRACTOR TO MINIMIZE OVERSPRAY. NO OVERSPRAY ONTO PAVEMENT SHALL BE ACCEPTED.

IRRIGATION LEGEND:

- RAINBIRD 1804-PRS-SAM SERIES 4" POP-UP SPRAY - MPR NOZZLES
- RAINBIRD 1806-PRS-SAM SERIES 6" POP-UP SPRAY - MPR NOZZLES
- RAINBIRD 1812-PRS-SAM SERIES 12" POP-UP SPRAY - MPR NOZZLES
- ◆ TORO FB-PC-80 SERIES 12" POP-UP BUBBLERS - TURF AREAS
- ◆ TORO FB-100 ON SCH 80 RISER W/SHRUB ADAPTOR - TREE WELLS
- HUNTER I20-ADV SERIES - 8.0 NOZZLE
- ⊖ HUNTER I20-ADV SERIES - 4.0 NOZZLE
- HUNTER I20-6P-ADV SERIES - 8.0 NOZZLE
- ⊖ HUNTER I20-6P-ADV SERIES - 4.0 NOZZLE
- △ HUNTER I20-HP-ADV SERIES - 8.0 NOZZLE
- △ HUNTER I20-HP-ADV SERIES - 4.0 NOZZLE
- ⊕ WEATHERMATIC 11000CR SERIES REMOTE CONTROL VALVE
- ⊕ MANIFOLDED VALVES SHALL BE SPACED 4'-0" APART
- ⊕ BUCKNER QB35B07 SINGLE LUG 3/4" QUICK COUPLING VALVE
- N SPEARS PLASTIC BALL VALVE - Same size as mainline
- WATTS 007M SERIES INLINE DCA - 2"
- M HERSEY MVR WATER METER - 2"
- Ⓐ RAINMASTER EVOLUTION DX-2 CONTROLLER- ELECTRICAL POWER DISTRIBUTION AND PHONE SERVICE LINES TO THE IRRIGATION CONTRACTOR. THE ELECTRICAL AND PHONE LINES (AND ALL RELATED WORK) SHALL BE INSTALLED PER ALL LOCAL, STATE, AND NATIONAL CODES.
- ⊕ FLOW METER - SAME SIZE AS MAINLINE - PS-200 DATA INDUSTRIAL FLOW METER
- SCHEDULE 40 PVC MAINLINE - REF PLAN
- Class 316 IPS or Class 200 IPS Lateral Line
- ▨ SCH 40 PVC SLEEVE - PERMANENTLY MARK CURBS WITH LOCATIONS OF SLEEVES PER CITY STANDARDS
- ZONE CONTROLLER - STATION NUMBER
- VALVE VALVE SIZE
- GPM GPM PER VALVE



NO.	DATE	REVISION	APPROV.	230
1	10/22/04	IRRIGATION SERVICE REVISIONS	WCP	
HNTB ARCHITECTS ENGINEERS PLANNERS The HNTB Companies				
ARAPAHO ROAD EXTENSION				
SURVEYOR BOULEVARD TO ADDISON ROAD				
IRRIGATION PLAN STA 60+00 TO 65+00				
TOWN OF ADDISON, TEXAS				
Design TW	Drawn TW	DATE	SCALE	PROJECT NO. SHEET NO.
Check TW	Check MP	6/3/04	VARIES	25768 IR-07



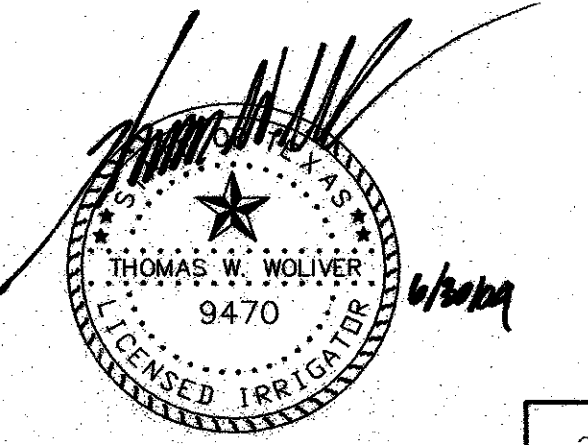
MATCH LINE STA. 65+00

MATCH LINE STA. 70+00

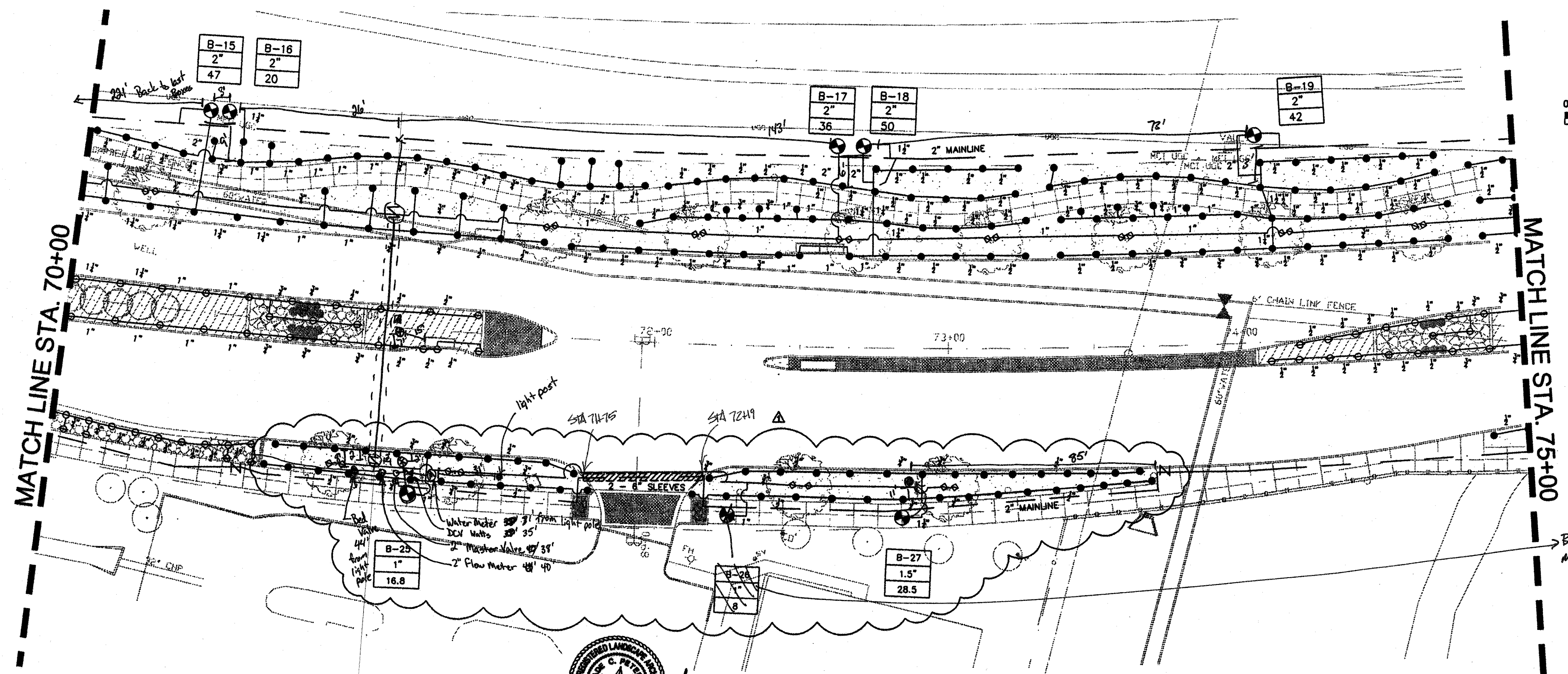
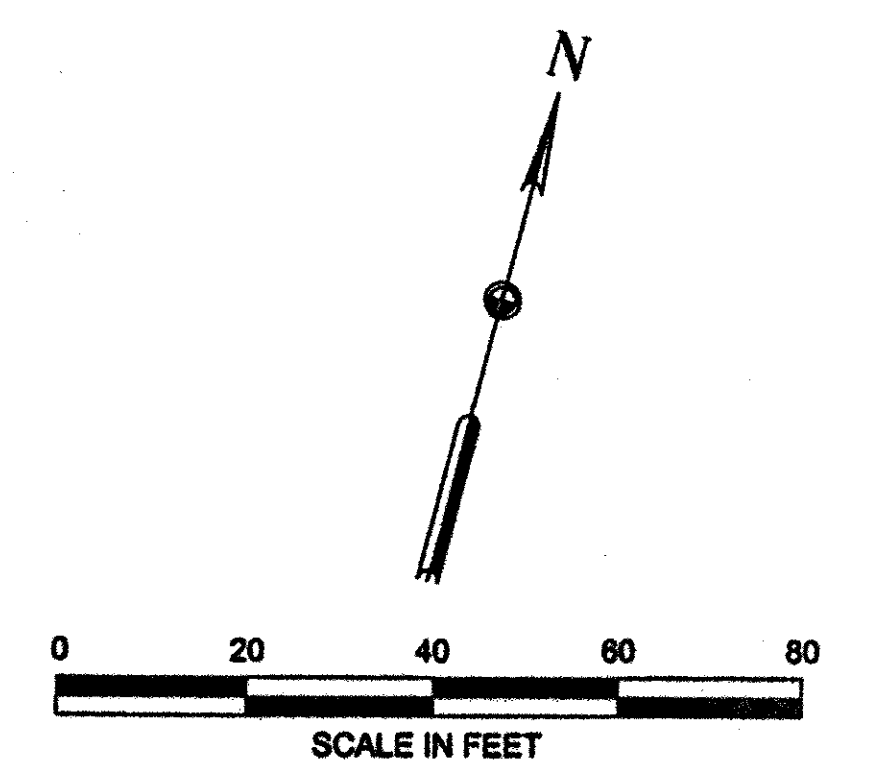
CONTRACTOR SHALL VERIFY NOZZLE SIZES IN FIELD FOR MPR AND HEAD TO HEAD COVERAGE. CONTRACTOR TO MINIMIZE OVERSPRAY. NO OVERSPRAY ONTO PAVEMENT SHALL BE ACCEPTED.

IRRIGATION LEGEND:

- RAINBIRD 1804-PRS-SAM SERIES 4" POP-UP SPRAY - MPR NOZZLES
- RAINBIRD 1806-PRS-SAM SERIES 6" POP-UP SPRAY - MPR NOZZLES
- ▣ RAINBIRD 1812-PRS-SAM SERIES 12" POP-UP SPRAY - MPR NOZZLES
- ◇ TORO FB-PC-50 SERIES 12" POP-UP BUBBLERS - TURF AREAS
- ◇ TORO FB-100 ON SCH 80 RISER W/SHRUB ADAPTOR - TREE WELLS
- HUNTER I20-ADV SERIES - 8.0 NOZZLE
- ⊖ HUNTER I20-ADV SERIES - 4.0 NOZZLE
- ⊕ HUNTER I20-6P-ADV SERIES - 8.0 NOZZLE
- ⊕ HUNTER I20-6P-ADV SERIES - 4.0 NOZZLE
- △ HUNTER I20-HP-ADV SERIES - 8.0 NOZZLE
- △ HUNTER I20-HP-ADV SERIES - 4.0 NOZZLE
- ⊙ WEATHERMATIC 11000CR SERIES REMOTE CONTROL VALVE. MANIFOLDED VALVES SHALL BE SPACED 4'-0" APART
- ⊠ BUCKNER QB3SBL07 SINGLE LUG 3/4" QUICK COUPLING VALVE
- N SPEARS PLASTIC BALL VALVE - Same size as mainline
- ⊠ WATTS 007M SERIES INLINE DCA - 2"
- M HERSEY MVR WATER METER - 2"
- Ⓐ RAINMASTER EVOLUTION DX-2 CONTROLLER- ELECTRICAL POWER DISTRIBUTION AND PHONE SERVICE LINES TO THE IRRIGATION CONTROLLERS SHALL BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR. THE ELECTRICAL AND PHONE LINES (AND ALL RELATED WORK) SHALL BE INSTALLED PER ALL LOCAL, STATE, AND NATIONAL CODES.
- ⊕ FLOW METER - SAME SIZE AS MAINLINE - FS-200 DATA INDUSTRIAL FLOW METER
- ▬ SCHEDULE 40 PVC MAINLINE - REF PLAN
- ▬ Class 315 IPS or Class 200 IPS Lateral Line
- ▨ SCH 40 PVC SLEEVE - PERMANENTLY MARK CURBS WITH LOCATIONS OF SLEEVES PER CITY STANDARDS
- ZONE CONTROLLER - STATION NUMBER
- VALVE VALVE SIZE
- GPM GPM PER VALVE



NO.		DATE	REVISION	APPROV.
				231
HNTB ARCHITECTS ENGINEERS PLANNERS The HNTB Companies				
ARAPAHO ROAD EXTENSION				
SURVEYOR BOULEVARD TO ADDISON ROAD				
IRRIGATION PLAN				
STA 65+00 TO 70+00				
TOWN OF ADDISON, TEXAS				
Design TW	Drawn TW	DATE	SCALE	PROJECT NO.
Check TW	Check MP	6/3/04	VARIES	25768
				IR-08



Thomas W. Wolliver

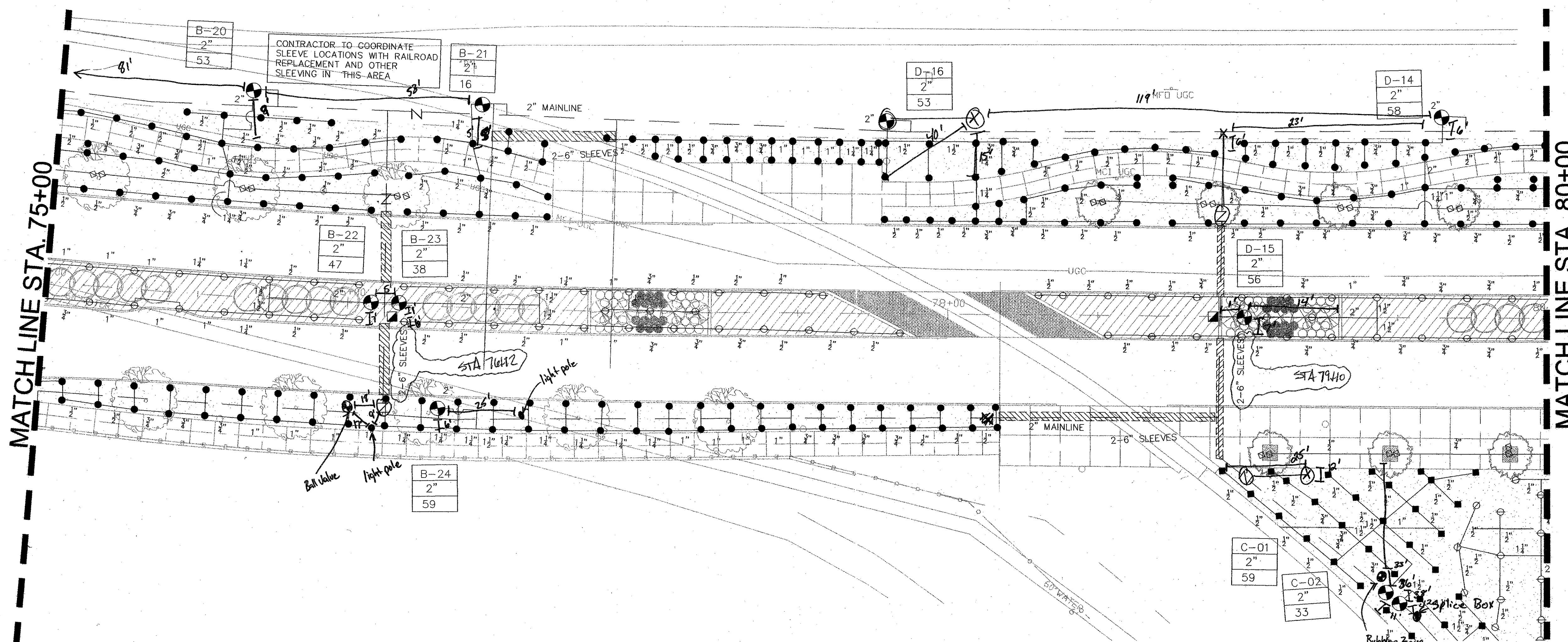
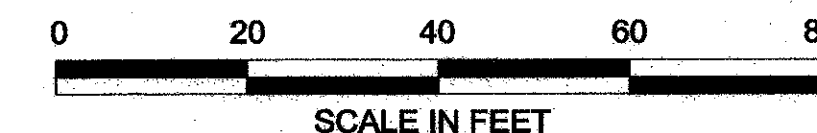
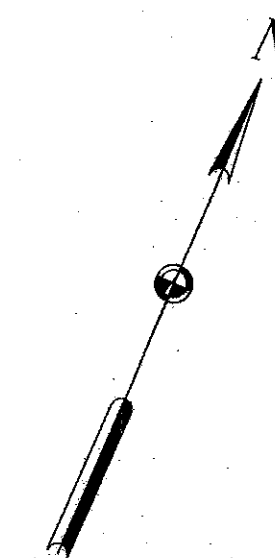
 6/22/04

CONTRACTOR SHALL VERIFY NOZZLE SIZES IN FIELD FOR MPR AND HEAD TO HEAD COVERAGE. CONTRACTOR TO MINIMIZE OVERSPRAY. NO OVERSPRAY ONTO PAVEMENT SHALL BE ACCEPTED.

IRRIGATION LEGEND:

- RAINBIRD 1804-PRS-SAM SERIES 4" POP-UP SPRAY - MPR NOZZLES
- RAINBIRD 1806-PRS-SAM SERIES 6" POP-UP SPRAY - MPR NOZZLES
- ⊙ RAINBIRD 1812-PRS-SAM SERIES 12" POP-UP SPRAY - MPR NOZZLES
- ◆ TORO FB-PC-50 SERIES 12" POP-UP BUBBLERS - TURF AREAS
- ◆ TORO FB-100 ON SCH 80 RISER W/SHRUB ADAPTOR - TREE WELLS
- HUNTER I20-ADV SERIES - 8.0 NOZZLE
- ⊖ HUNTER I20-ADV SERIES - 4.0 NOZZLE
- ⊕ HUNTER I20-8P-ADV SERIES - 8.0 NOZZLE
- ⊕ HUNTER I20-8P-ADV SERIES - 4.0 NOZZLE
- △ HUNTER I20-HP-ADV SERIES - 8.0 NOZZLE
- △ HUNTER I20-HP-ADV SERIES - 4.0 NOZZLE
- ⊕ WEATHERMATIC 11000CR SERIES REMOTE CONTROL VALVE
- MANFOLDED VALVES SHALL BE SPACED 4'-0" APART
- ☑ BUCKNER Q838BL07 SINGLE LUG 3/4" QUICK COUPLING VALVE
- N SPEARS PLASTIC BALL VALVE - Same size as mainline
- WATTS 007M SERIES INLINE DCA - 2"
- M HERSEY MVR WATER METER - 2"
- A RAINMASTER EVOLUTION DX-2 CONTROLLER- ELECTRICAL POWER DISTRIBUTION AND PHONE SERVICE LINES TO THE IRRIGATION CONTROLLERS SHALL BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR. THE ELECTRICAL AND PHONE LINES (AND ALL RELATED WORK) SHALL BE INSTALLED PER ALL LOCAL, STATE, AND NATIONAL CODES.
- ⊕ FLOW METER - SAME SIZE AS MAINLINE - FS-200 DATA INDUSTRIAL FLOW METER
- SCHEDULE 40 PVC MAINLINE - REF PLAN
- Class 315 IPS or Class 200 IPS Lateral Line
- ▨ SCH 40 PVC SLEEVE - PERMANENTLY MARK CURBS WITH LOCATIONS OF SLEEVES PER CITY STANDARDS
- ☐ ZONE VALVE VALVE SIZE
- GPM GPM PER VALVE

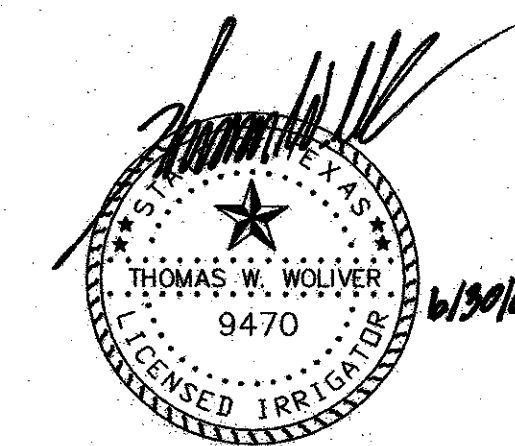
NO.		DATE	REVISION	APPROV.
1	10/22/04	IRRIGATION SERVICE REVISIONS		WCP
HNTB ARCHITECTS ENGINEERS PLANNERS The HNTB Companies				
ARAPAHO ROAD EXTENSION				
SURVEYOR BOULEVARD TO ADDISON ROAD				
IRRIGATION PLAN STA 70+00 TO 75+00				
TOWN OF ADDISON, TEXAS				
Design TW	Drawn TW	DATE	SCALE	PROJECT NO.
Check TW	Check MP	6/3/04	VARIES	25788
				SHEET NO. IR-09



CONTRACTOR SHALL VERIFY NOZZLE SIZES IN FIELD FOR MPR AND HEAD TO HEAD COVERAGE. CONTRACTOR TO MINIMIZE OVERSPRAY. NO OVERSPRAY ONTO PAVEMENT SHALL BE ACCEPTED.

IRRIGATION LEGEND:

- RAINBIRD 1804-PRS-SAM SERIES 4" POP-UP SPRAY - MPR NOZZLES
- RAINBIRD 1806-PRS-SAM SERIES 6" POP-UP SPRAY - MPR NOZZLES
- ⊙ RAINBIRD 1812-PRS-SAM SERIES 12" POP-UP SPRAY - MPR NOZZLES
- ◇ TORO FB-PC-50 SERIES 12" POP-UP BUBBLERS - TURF AREAS
- ◇ TORO FB-100 ON SCH 80 RISER W/SHRUB ADAPTOR - TREE WELLS
- HUNTER I20-ADV SERIES - 8.0 NOZZLE
- ⊖ HUNTER I20-ADV SERIES - 4.0 NOZZLE
- ⊕ HUNTER I20-6P-ADV SERIES - 8.0 NOZZLE
- ⊖ HUNTER I20-6P-ADV SERIES - 4.0 NOZZLE
- △ HUNTER I20-HP-ADV SERIES - 8.0 NOZZLE
- ▲ HUNTER I20-HP-ADV SERIES - 4.0 NOZZLE
- ⊗ WEATHERMATIC 11000CR SERIES REMOTE CONTROL VALVE
- MANIFOLDED VALVES SHALL BE SPACED 4'-0" APART
- BUCKNER QB3SBL07 SINGLE LUG 3/4" QUICK COUPLING VALVE
- N SPEARS PLASTIC BALL VALVE - Same size as mainline
- ⊠ WATTS 007M SERIES INLINE DCA - 2"
- M HERSEY MVR WATER METER - 2"
- Ⓐ RAINMASTER EVOLUTION DX-2 CONTROLLER-ELECTRICAL POWER DISTRIBUTION AND PHONE SERVICE LINES TO THE IRRIGATION CONTROLLERS SHALL BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR. THE ELECTRICAL AND PHONE LINES (AND ALL RELATED WORK) SHALL BE INSTALLED PER ALL LOCAL, STATE, AND NATIONAL CODES.
- ⊕ FLOW METER - SAME SIZE AS MAINLINE - FS-200 DATA INDUSTRIAL FLOW METER
- SCHEDULE 40 PVC MAINLINE - REF PLAN
- Class 315 IPS or Class 200 IPS Lateral Line
- ▨ SCH 40 PVC SLEEVE - PERMANENTLY MARK CURBS WITH LOCATIONS OF SLEEVES PER CITY STANDARDS
- ZONE CONTROLLER - STATION NUMBER
- VALVE VALVE SIZE
- GPM GPM PER VALVE



233

NO.	DATE	REVISION	APPROV.

HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB Companies

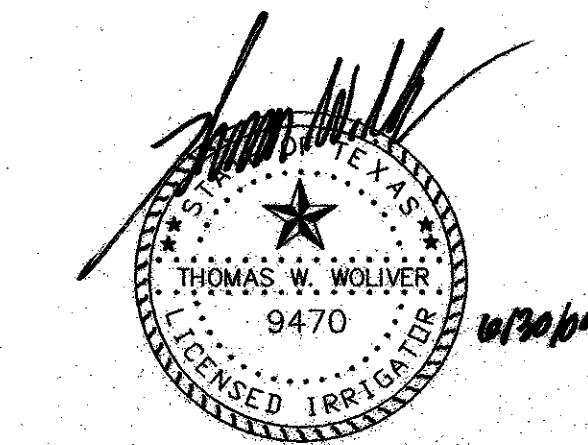
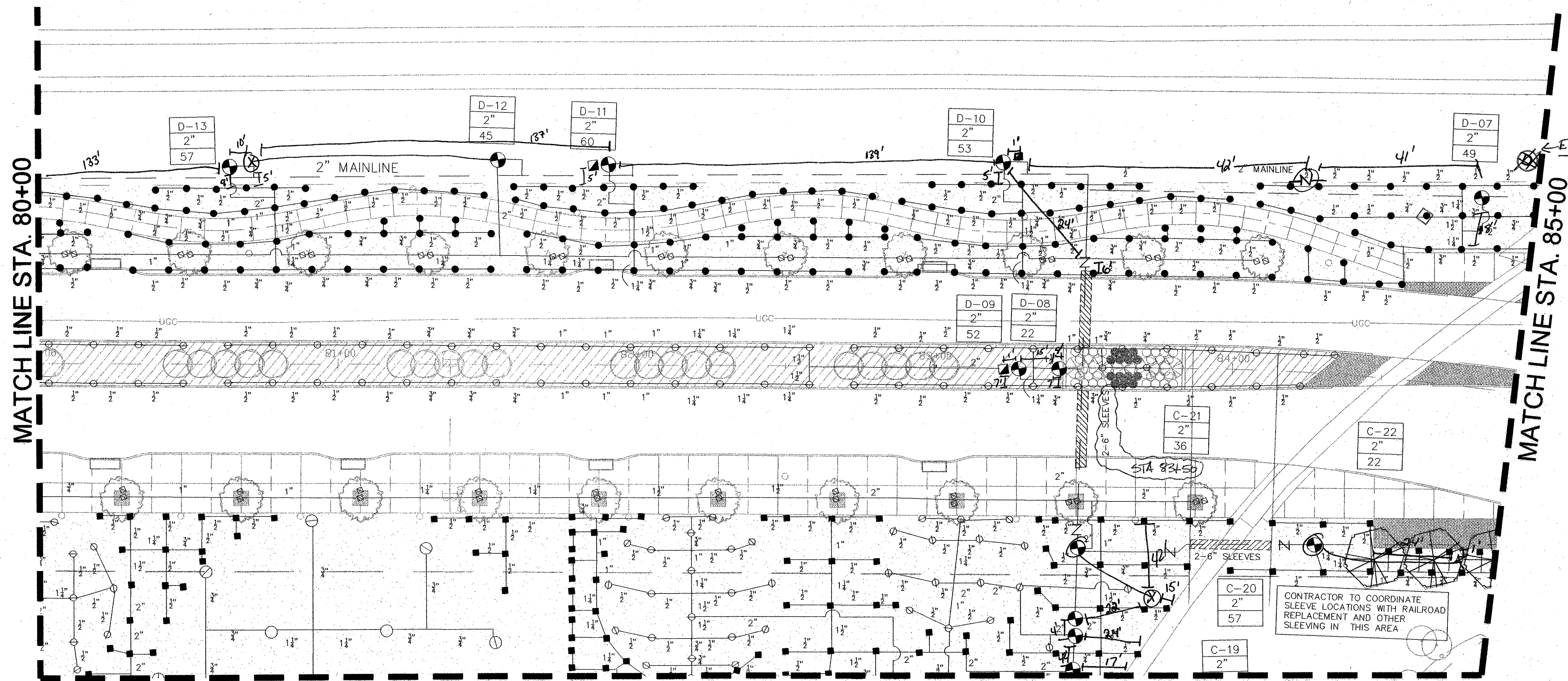
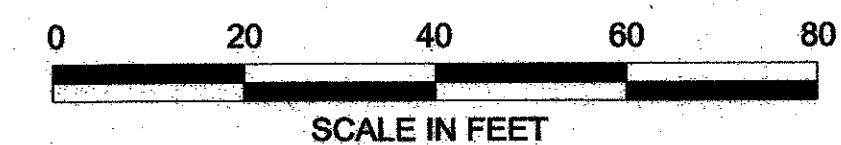
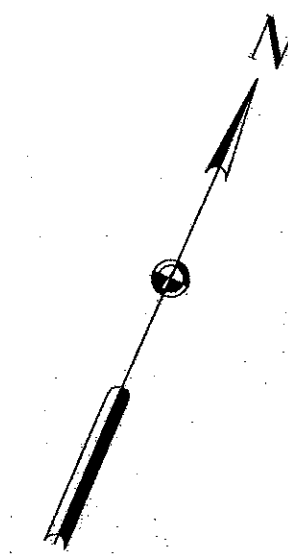
ARAPAHO ROAD EXTENSION

SURVEYOR BOULEVARD TO ADDISON ROAD

IRRIGATION PLAN
STA 75+00 TO 80+00

TOWN OF ADDISON, TEXAS

Design TW	Drawn TW	DATE	SCALE	PROJECT NO.	SHEET NO.
		6/3/04	VARIABLES	25768	IR-10



MATCH LINE 'A'

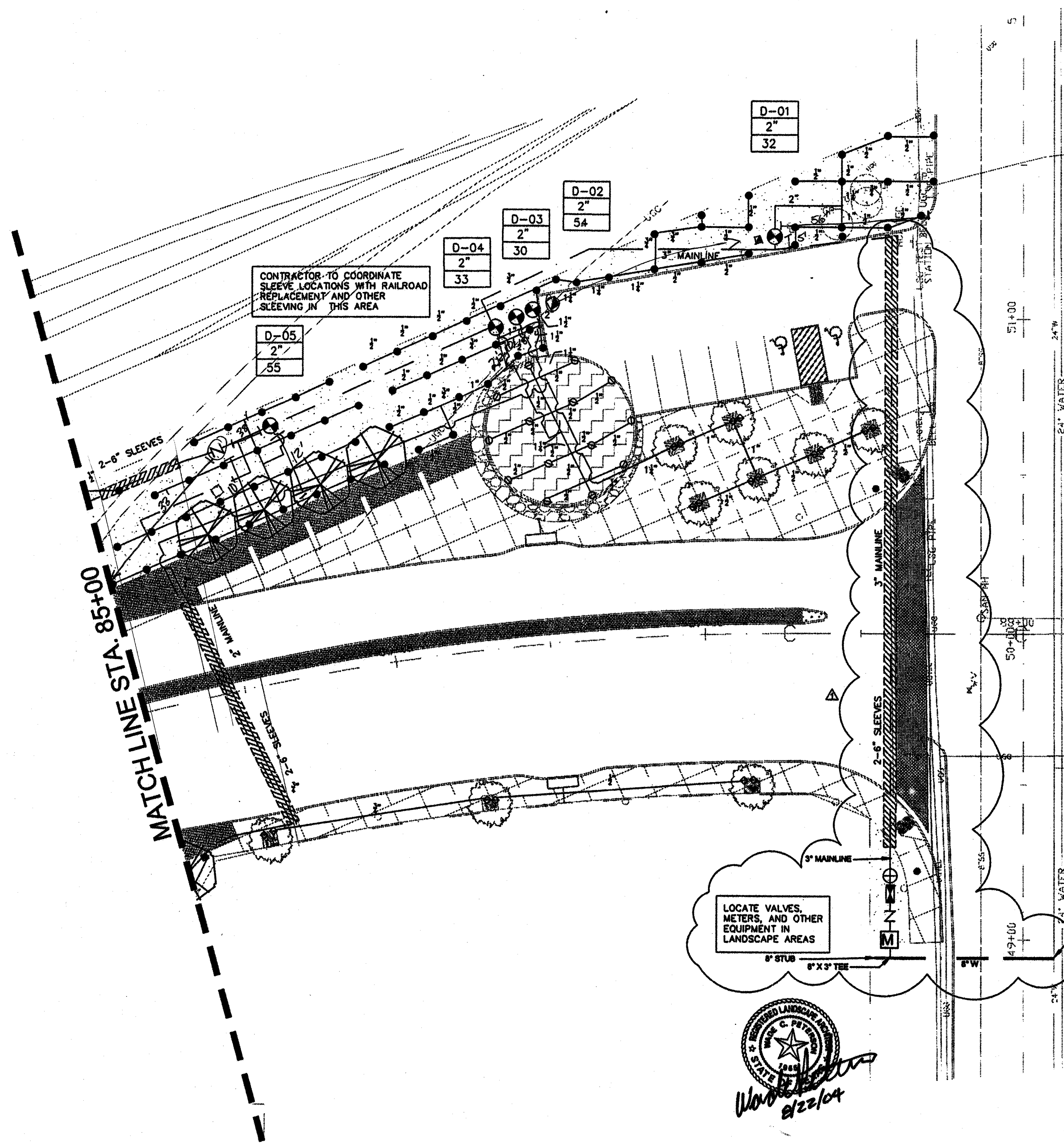
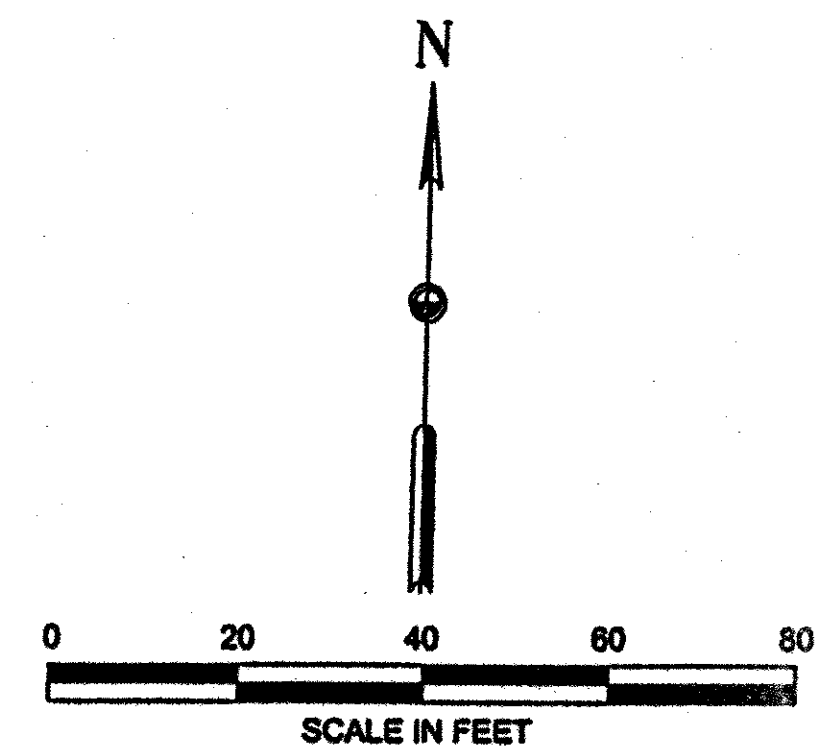
CONTRACTOR SHALL VERIFY NOZZLE SIZES IN FIELD FOR MPR AND HEAD TO HEAD COVERAGE. CONTRACTOR TO MINIMIZE OVERSPRAY. NO OVERSPRAY ONTO PAVEMENT SHALL BE ACCEPTED.

IRRIGATION LEGEND:

- RAINBIRD 1804-PRS-SAM SERIES 4" POP-UP SPRAY - MPR NOZZLES
- RAINBIRD 1806-PRS-SAM SERIES 6" POP-UP SPRAY - MPR NOZZLES
- RAINBIRD 1812-PRS-SAM SERIES 12" POP-UP SPRAY - MPR NOZZLES
- ◇ TORO FB-PC-50 SERIES 12" POP-UP BUBBLERS - TURF AREAS
- ◇ TORO FB-100 ON SCH 80 RISER W/SHRUB ADAPTOR - TREE WELLS
- HUNTER I20-ADV SERIES - 8.0 NOZZLE
- HUNTER I20-ADV SERIES - 4.0 NOZZLE
- HUNTER I20-6P-ADV SERIES - 8.0 NOZZLE
- HUNTER I20-6P-ADV SERIES - 4.0 NOZZLE
- △ HUNTER I20-HP-ADV SERIES - 8.0 NOZZLE
- △ HUNTER I20-HP-ADV SERIES - 4.0 NOZZLE
- ⊕ WEATHERMATIC 11000CR SERIES REMOTE CONTROL VALVE
- MANIFOLDED VALVES SHALL BE SPACED 4'-0" APART
- BUCKNER QB3SBL07 SINGLE LUG 3/4" QUICK COUPLING VALVE
- N SPEARS PLASTIC BALL VALVE - Same size as mainline
- ⊞ WATTS 007M SERIES INLINE DCA - 2"
- M HERSEY MVR WATER METER - 2"
- A RAINMASTER EVOLUTION DX-2 CONTROLLER- ELECTRICAL POWER DISTRIBUTION AND PHONE SERVICE LINES TO THE IRRIGATION CONTROLLERS SHALL BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR. THE ELECTRICAL AND PHONE LINES (AND ALL RELATED WORK) SHALL BE INSTALLED PER ALL LOCAL, STATE, AND NATIONAL CODES.
- ⊕ FLOW METER - SAME SIZE AS MAINLINE - FS-200 DATA INDUSTRIAL FLOW METER
- ▬ SCHEDULE 40 PVC MAINLINE - REF PLAN
- Class 315 IPS or Class 200 IPS Lateral Line
- ▨ SCH 40 PVC SLEEVE - PERMANENTLY MARK CURBS WITH LOCATIONS OF SLEEVES PER CITY STANDARDS
- ZONE CONTROLLER - STATION NUMBER
- VALVE VALVE SIZE
- GPM GPM PER VALVE

234

NO.	DATE	REVISION	APPROV.
HNTB ARCHITECTS ENGINEERS PLANNERS The HNTB Companies			
ARAPAHO ROAD EXTENSION			
SURVEYOR BOULEVARD TO ADDISON ROAD			
IRRIGATION PLAN			
STA 80+00 TO 85+00			
TOWN OF ADDISON, TEXAS			
Design TW	Drown TW	DATE	SCALE
Check TW	Check MP	6/3/04	VARIES
PROJECT NO.		SHEET NO.	
25768		IR-11	



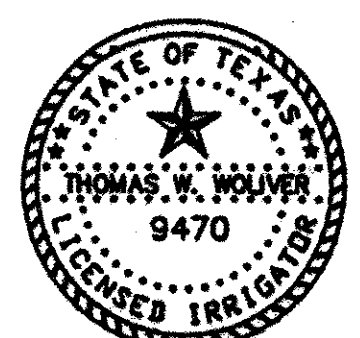
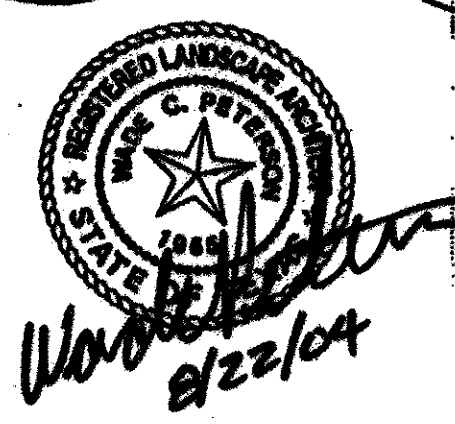
CONTRACTOR TO COORDINATE SLEEVE LOCATIONS WITH RAILROAD REPLACEMENT AND OTHER SLEEVING IN THIS AREA

LOCATE VALVES, METERS, AND OTHER EQUIPMENT IN LANDSCAPE AREAS

IRRIGATION LEGEND:

- RAINBIRD 1804-PRS-SAM SERIES 4" POP-UP SPRAY - MPR NOZZLES
- RAINBIRD 1806-PRS-SAM SERIES 6" POP-UP SPRAY - MPR NOZZLES
- ◆ RAINBIRD 1812-PRS-SAM SERIES 12" POP-UP SPRAY - MPR NOZZLES
- ◆ TORO FB-PC-80 SERIES 12" POP-UP BUBBLERS - TURF AREAS
- ◆ TORO FB-100 ON SCH 80 RISER W/SHRUB ADAPTOR - TREE WELLS
- HUNTER I20-ADV SERIES - 8.0 NOZZLE
- ⊕ HUNTER I20-ADV SERIES - 4.0 NOZZLE
- HUNTER I20-4P-ADV SERIES - 8.0 NOZZLE
- ⊕ HUNTER I20-4P-ADV SERIES - 4.0 NOZZLE
- △ HUNTER I20-HP-ADV SERIES - 8.0 NOZZLE
- △ HUNTER I20-HP-ADV SERIES - 4.0 NOZZLE
- ⊕ WEATHERMATIC 11000CR SERIES REMOTE CONTROL VALVE
- ⊕ MANIFOLDED VALVES SHALL BE SPACED 4'-0" APART
- ⊕ BUCKNER QB38B07 SINGLE LUG 3/4" QUICK COUPLING VALVE
- ⊕ SPEARS PLASTIC BALL VALVE - Same size as mainline
- ⊕ WATTS 007M SERIES INLINE DCA - 2"
- ⊕ HERSEY MVR WATER METER - 2"
- ⊕ RAINMASTER EVOLUTION DX-2 CONTROLLER- ELECTRICAL POWER DISTRIBUTION AND PHONE SERVICE LINES TO THE IRRIGATION CONTROLLERS SHALL BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR. THE ELECTRICAL AND PHONE LINES (AND ALL RELATED WORK) SHALL BE INSTALLED PER ALL LOCAL, STATE, AND NATIONAL CODES.
- ⊕ FLOW METER - SAME SIZE AS MAINLINE - FS-200 DATA INDUSTRIAL FLOW METER
- ▬ SCHEDULE 40 PVC MAINLINE - REF PLAN
- ▬ Class 315 IPS or Class 200 IPS Lateral Line
- ▬ SCH 40 PVC SLEEVE - PERMANENTLY MARK CURBS WITH LOCATIONS OF SLEEVES PER CITY STANDARDS
- ⊕ ZONE VALVE - CONTROLLER - STATION NUMBER
- ⊕ VALVE SIZE
- ⊕ GPM - GPM PER VALVE

CONTRACTOR SHALL VERIFY NOZZLE SIZES IN FIELD FOR MPR AND HEAD TO HEAD COVERAGE. CONTRACTOR TO MINIMIZE OVERSPRAY. NO OVERSPRAY ONTO PAVEMENT SHALL BE ACCEPTED.



235

NO.	DATE	REVISION	APPROV.
1	10/22/04	IRRIGATION SERVICE REVISIONS	WCP

HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB Companies

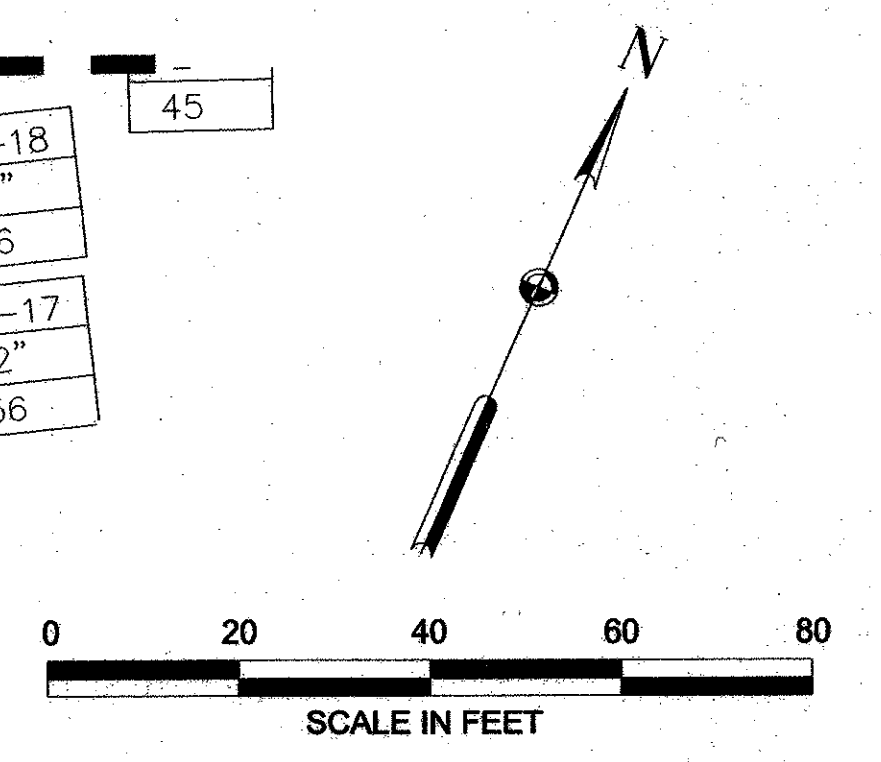
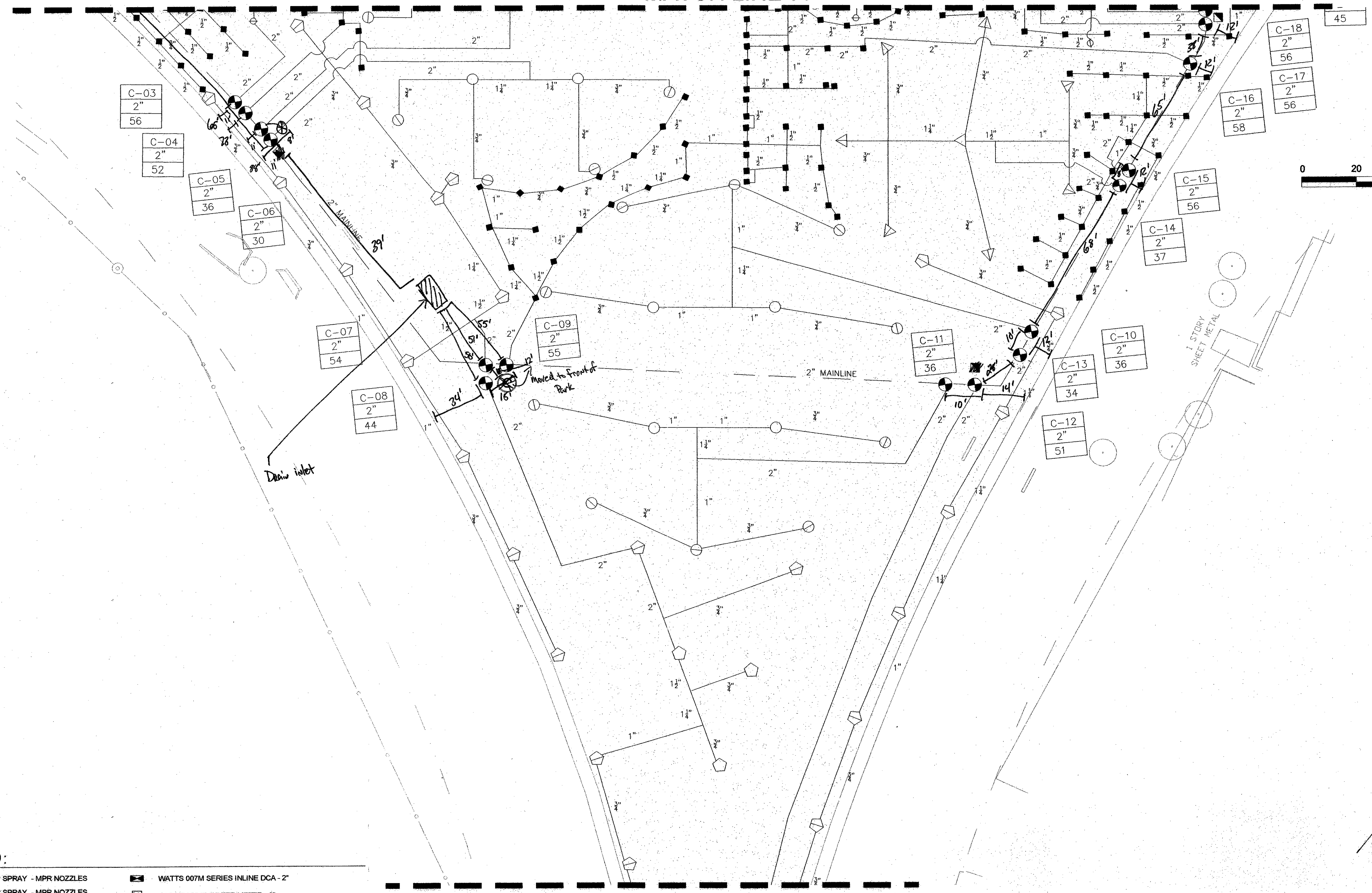
ARAPAHO ROAD EXTENSION
SURVEYOR BOULEVARD TO ADDISON ROAD

IRRIGATION PLAN
STA 85+00 TO 87+88

TOWN OF ADDISON, TEXAS

Design TW	Drawn TW	DATE	SCALE	PROJECT NO.	SHEET NO.
Check TW	Check MP	6/3/04	VARIES	25768	IR-12

MATCH LINE 'A'

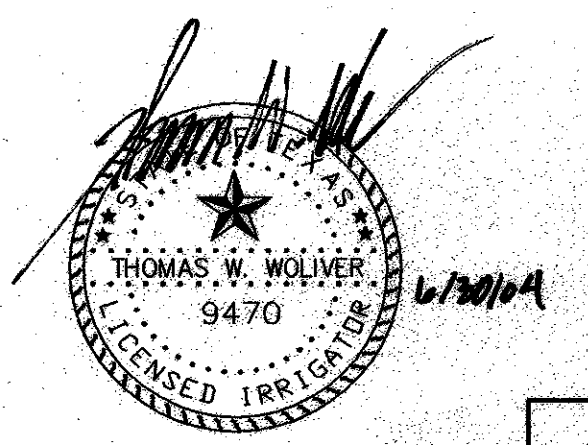


IRRIGATION LEGEND:

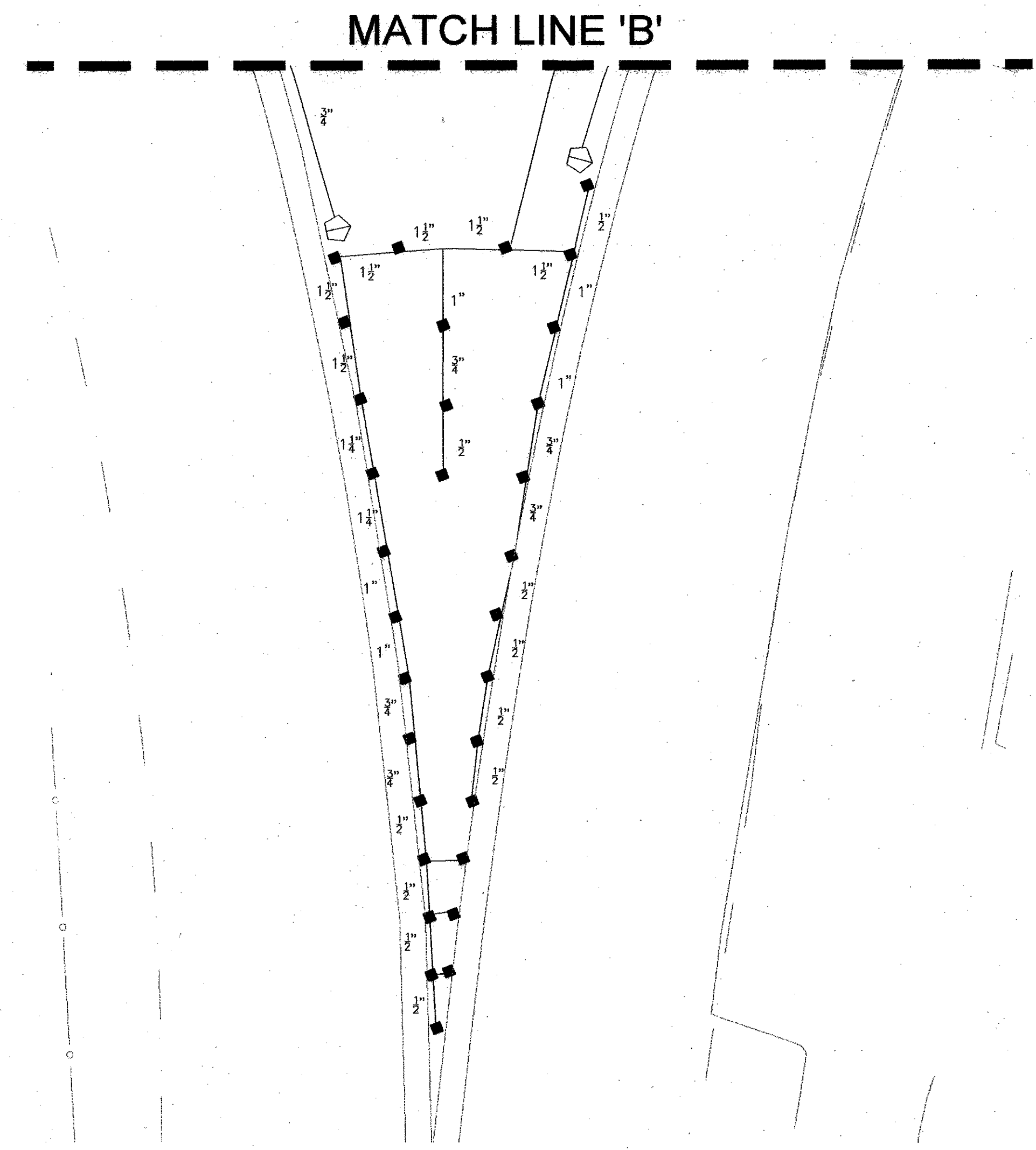
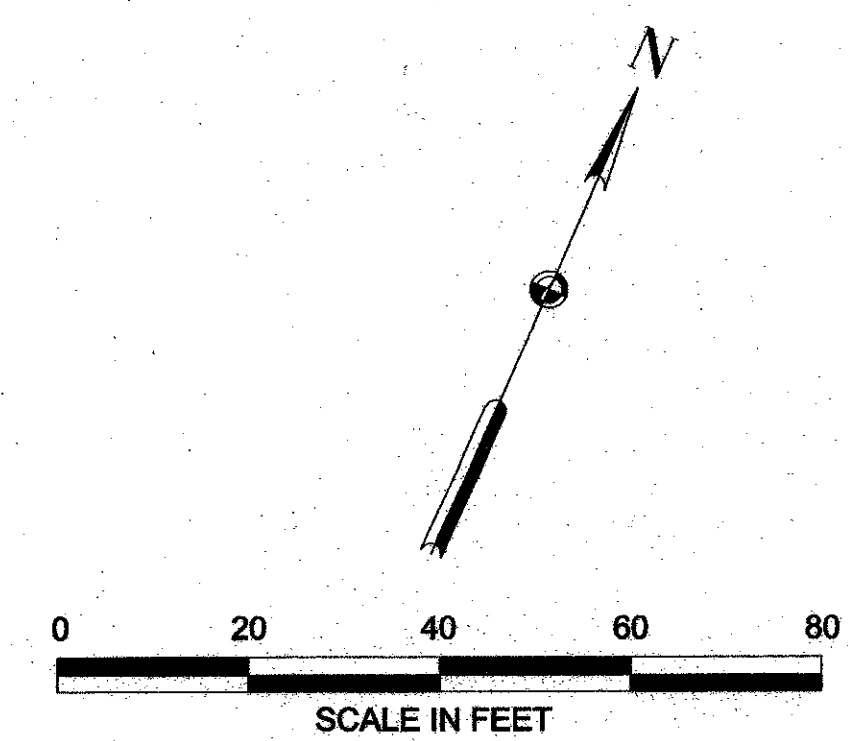
- RAINBIRD 1804-PRS-SAM SERIES 4" POP-UP SPRAY - MPR NOZZLES
- RAINBIRD 1806-PRS-SAM SERIES 6" POP-UP SPRAY - MPR NOZZLES
- ⊙ RAINBIRD 1812-PRS-SAM SERIES 12" POP-UP SPRAY - MPR NOZZLES
- ◇ TORO FB-PC-50 SERIES 12" POP-UP BUBBLERS - TURF AREAS
- ◇ TORO FB-100 ON SCH 80 RISER W/SHRUB ADAPTOR - TREE WELLS
- HUNTER I20-ADV SERIES - 8.0 NOZZLE
- ⊖ HUNTER I20-ADV SERIES - 4.0 NOZZLE
- ⊕ HUNTER I20-6P-ADV SERIES - 8.0 NOZZLE
- ⊖ HUNTER I20-6P-ADV SERIES - 4.0 NOZZLE
- △ HUNTER I20-HP-ADV SERIES - 8.0 NOZZLE
- △ HUNTER I20-HP-ADV SERIES - 4.0 NOZZLE
- ⊙ WEATHERMATIC 11000CR SERIES REMOTE CONTROL VALVE
- MANIFOLDED VALVES SHALL BE SPACED 4'-0" APART
- BUCKNER QB3SBL07 SINGLE LUG 3/4" QUICK COUPLING VALVE
- N SPEARS PLASTIC BALL VALVE - Same size as mainline
- WATTS 007M SERIES INLINE DCA - 2"
- M HERSEY MVR WATER METER - 2"
- Ⓐ RAINMASTER EVOLUTION DX-2 CONTROLLER- ELECTRICAL POWER DISTRIBUTION AND PHONE SERVICE LINES TO THE IRRIGATION CONTROLLERS SHALL BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR. THE ELECTRICAL AND PHONE LINES (AND ALL RELATED WORK) SHALL BE INSTALLED PER ALL LOCAL, STATE, AND NATIONAL CODES.
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- SCHEDULE 40 PVC MAINLINE - REF PLAN
- Class 315 IPS or Class 200 IPS Lateral Line
- ▨ SCH 40 PVC SLEEVE - PERMANENTLY MARK CURBS WITH LOCATIONS OF SLEEVES PER CITY STANDARDS
- ZONE CONTROLLER - STATION NUMBER
- VALVE VALVE SIZE
- GPM GPM PER VALVE

MATCH LINE 'B'

CONTRACTOR SHALL VERIFY NOZZLE SIZES IN FIELD FOR MPR AND HEAD TO HEAD COVERAGE. CONTRACTOR TO MINIMIZE OVERSPRAY. NO OVERSPRAY ONTO PAVEMENT SHALL BE ACCEPTED.



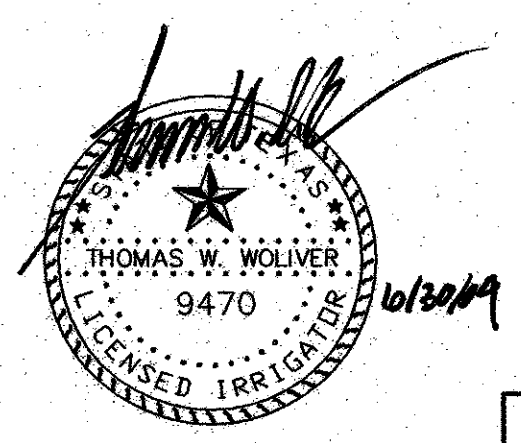
NO.	DATE	REVISION	APPROV.
HNTB ARCHITECTS ENGINEERS PLANNERS The HNTB Companies			
ARAPAHO ROAD EXTENSION			
SURVEYOR BOULEVARD TO ADDISON ROAD			
IRRIGATION PLAN			
MATCH LINE A TO			
MATCH LINE B			
TOWN OF ADDISON, TEXAS			
Design TW	Drawn TW	DATE	SCALE
Check TW	Check MP	6/3/04	VARIES
		PROJECT NO.	SHEET NO.
		25768	IR-13



IRRIGATION LEGEND:

- RAINBIRD 1804-PRS-SAM SERIES 4" POP-UP SPRAY - MPR NOZZLES
- RAINBIRD 1806-PRS-SAM SERIES 6" POP-UP SPRAY - MPR NOZZLES
- ⊗ RAINBIRD 1812-PRS-SAM SERIES 12" POP-UP SPRAY - MPR NOZZLES
- ◇ TORO FB-PC-50 SERIES 12" POP-UP BUBLERS - TURF AREAS
- ◇ TORO FB-100 ON SCH 80 RISER W/SHRUB ADAPTOR - TREE WELLS
- HUNTER I20-ADV SERIES - 8.0 NOZZLE
- ⊖ HUNTER I20-ADV SERIES - 4.0 NOZZLE
- ⬠ HUNTER I20-6P-ADV SERIES - 8.0 NOZZLE
- ⬠ HUNTER I20-6P-ADV SERIES - 4.0 NOZZLE
- ⬠ HUNTER I20-HP-ADV SERIES - 8.0 NOZZLE
- ⬠ HUNTER I20-HP-ADV SERIES - 4.0 NOZZLE
- ⊕ WEATHERMATIC 11000CR SERIES REMOTE CONTROL VALVE
MANIFOLDED VALVES SHALL BE SPACED 4'-0" APART
- ⊓ BUCKNER QB35BL07 SINGLE LUG 3/4" QUICK COUPLING VALVE
- N SPEARS PLASTIC BALL VALVE - Same size as mainline
- ⊓ WATTS 007M SERIES INLINE DCA - 2"
- M HERSEY MVR WATER METER - 2"
- Ⓐ RAINMASTER EVOLUTION DX-2 CONTROLLER- ELECTRICAL POWER DISTRIBUTION AND PHONE SERVICE LINES TO THE IRRIGATION CONTROLLERS SHALL BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR. THE ELECTRICAL AND PHONE LINES (AND ALL RELATED WORK) SHALL BE INSTALLED PER ALL LOCAL, STATE, AND NATIONAL CODES.
- ⊕ FLOW METER - SAME SIZE AS MAINLINE - FS-200 DATA INDUSTRIAL FLOW METER
- ▬ SCHEDULE 40 PVC MAINLINE - REF PLAN
- ▬ Class 315 IPS or Class 200 IPS Lateral Line
- ▨ SCH 40 PVC SLEEVE - PERMANENTLY MARK CURBS WITH LOCATIONS OF SLEEVES PER CITY STANDARDS
- ⊖ ZONE VALVE
- ⊖ VALVE
- ⊖ GPM
- CONTROLLER - STATION NUMBER
- VALVE SIZE
- GPM PER VALVE

CONTRACTOR SHALL VERIFY NOZZLE SIZES IN FIELD FOR MPR AND HEAD TO HEAD COVERAGE. CONTRACTOR TO MINIMIZE OVERSPRAY. NO OVERSPRAY ONTO PAVEMENT SHALL BE ACCEPTED.



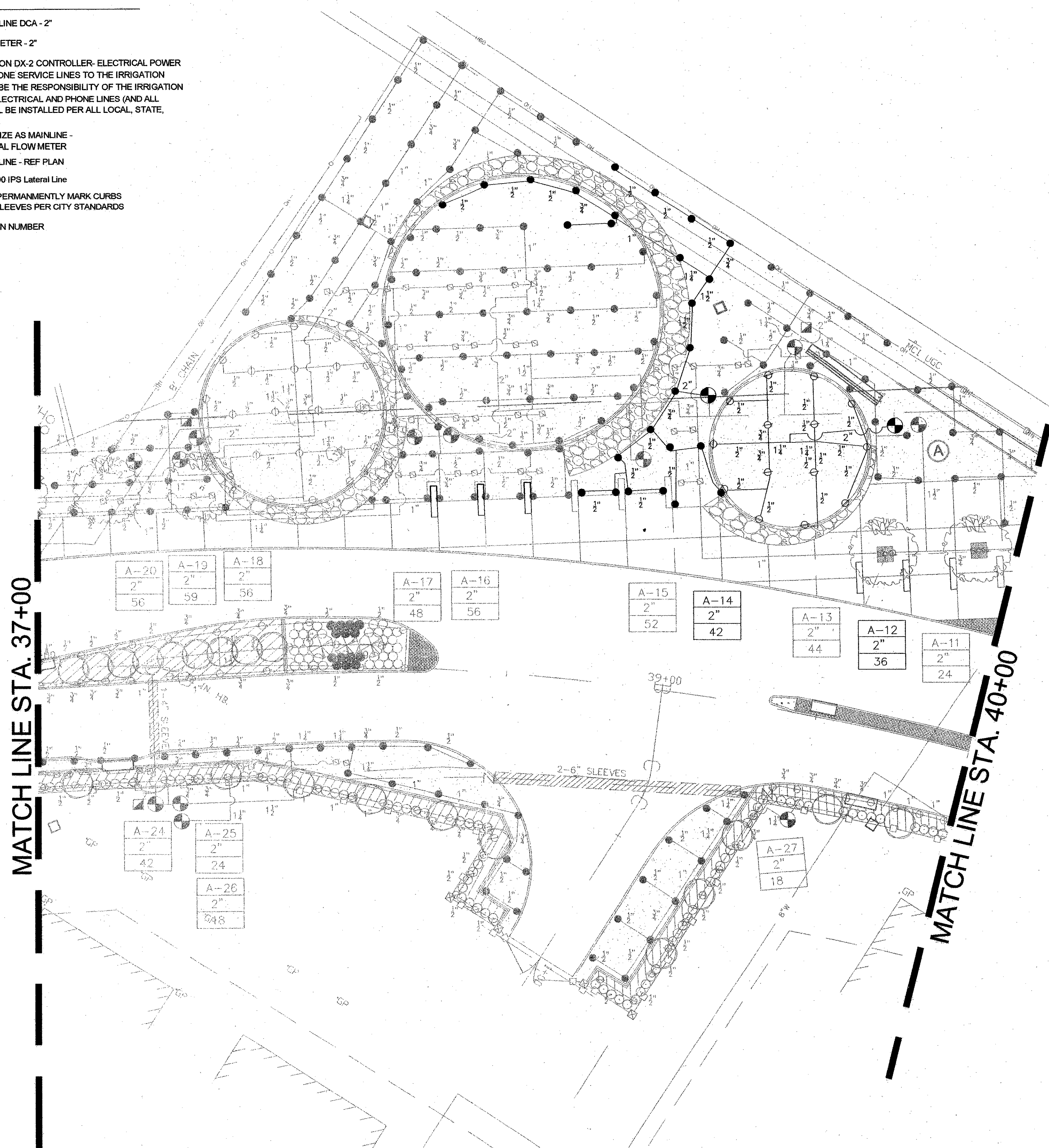
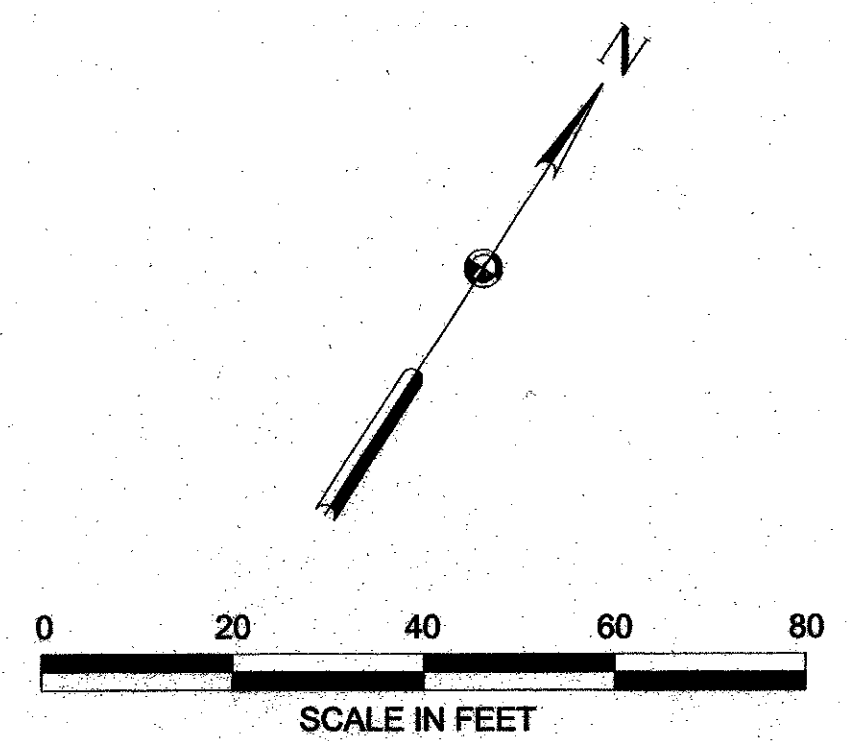
237

NO.	DATE	REVISION	APPROV.
HNTB ARCHITECTS ENGINEERS PLANNERS <small>The HNTB Companies</small>			
ARAPAHO ROAD EXTENSION			
SURVEYOR BOULEVARD TO ADDISON ROAD			
IRRIGATION PLAN			
MATCH LINE B TO LIMITS OF PROJECT			
TOWN OF ADDISON, TEXAS			
Design TW	Drawn TW	DATE	SCALE
Check TW	Check MP	6/3/04	VARIES
		PROJECT NO.	SHEET NO.
		25768	IR-14

IRRIGATION LEGEND:

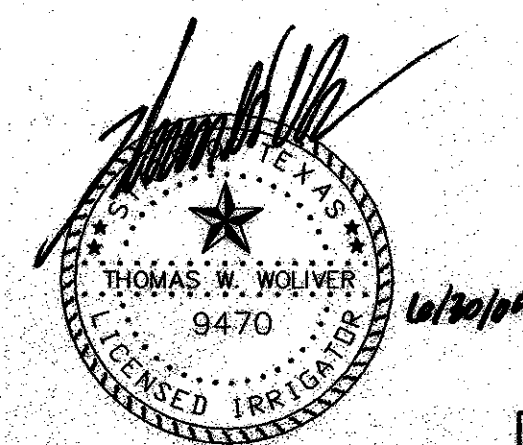
- RAINBIRD 1804-PRS-SAM SERIES 4" POP-UP SPRAY - MPR NOZZLES
 - RAINBIRD 1806-PRS-SAM SERIES 6" POP-UP SPRAY - MPR NOZZLES
 - ⊙ RAINBIRD 1812-PRS-SAM SERIES 12" POP-UP SPRAY - MPR NOZZLES
 - ◇ TORO FB-PC-50 SERIES 12" POP-UP BUBBLERS - TURF AREAS
 - ◇ TORO FB-100 ON SCH 80 RISER W/SHRUB ADAPTOR - TREE WELLS
 - HUNTER 120-ADV SERIES - 8.0 NOZZLE
 - ⊖ HUNTER 120-ADV SERIES - 4.0 NOZZLE
 - ⊕ HUNTER 120-6P-ADV SERIES - 8.0 NOZZLE
 - ⊖ HUNTER 120-6P-ADV SERIES - 4.0 NOZZLE
 - △ HUNTER 120-HP-ADV SERIES - 8.0 NOZZLE
 - △ HUNTER 120-HP-ADV SERIES - 4.0 NOZZLE
 - ⊙ WEATHERMATIC 11000CR SERIES REMOTE CONTROL VALVE
 - MANIFOLDED VALVES SHALL BE SPACED 4'-0" APART
 - BUCKNER QB3SBL07 SINGLE LUG 3/4" QUICK COUPLING VALVE
 - N SPEARS PLASTIC BALL VALVE - Same size as mainline
 - WATTS 007M SERIES INLINE DCA - 2"
 - M HERSEY MVR WATER METER - 2"
 - A RAINMASTER EVOLUTION DX-2 CONTROLLER- ELECTRICAL POWER DISTRIBUTION AND PHONE SERVICE LINES TO THE IRRIGATION CONTROLLERS SHALL BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR. THE ELECTRICAL AND PHONE LINES (AND ALL RELATED WORK) SHALL BE INSTALLED PER ALL LOCAL, STATE, AND NATIONAL CODES.
 - ⊕ FLOW METER - SAME SIZE AS MAINLINE - FS-200 DATA INDUSTRIAL FLOW METER
 - ▬ SCHEDULE 40 PVC MAINLINE - REF PLAN
 - ▬ Class 315 IPS or Class 200 IPS Lateral Line
 - ▨ SCH 40 PVC SLEEVE - PERMANENTLY MARK CURBS WITH LOCATIONS OF SLEEVES PER CITY STANDARDS
- | | |
|-------|-----------------------------|
| ZONE | CONTROLLER - STATION NUMBER |
| VALVE | VALVE SIZE |
| GPM | GPM PER VALVE |

CONTRACTOR SHALL VERIFY NOZZLE SIZES IN FIELD FOR MPR AND HEAD TO HEAD COVERAGE.
CONTRACTOR TO MINIMIZE OVERSPRAY. NO OVERSPRAY ONTO PAVEMENT SHALL BE ACCEPTED.



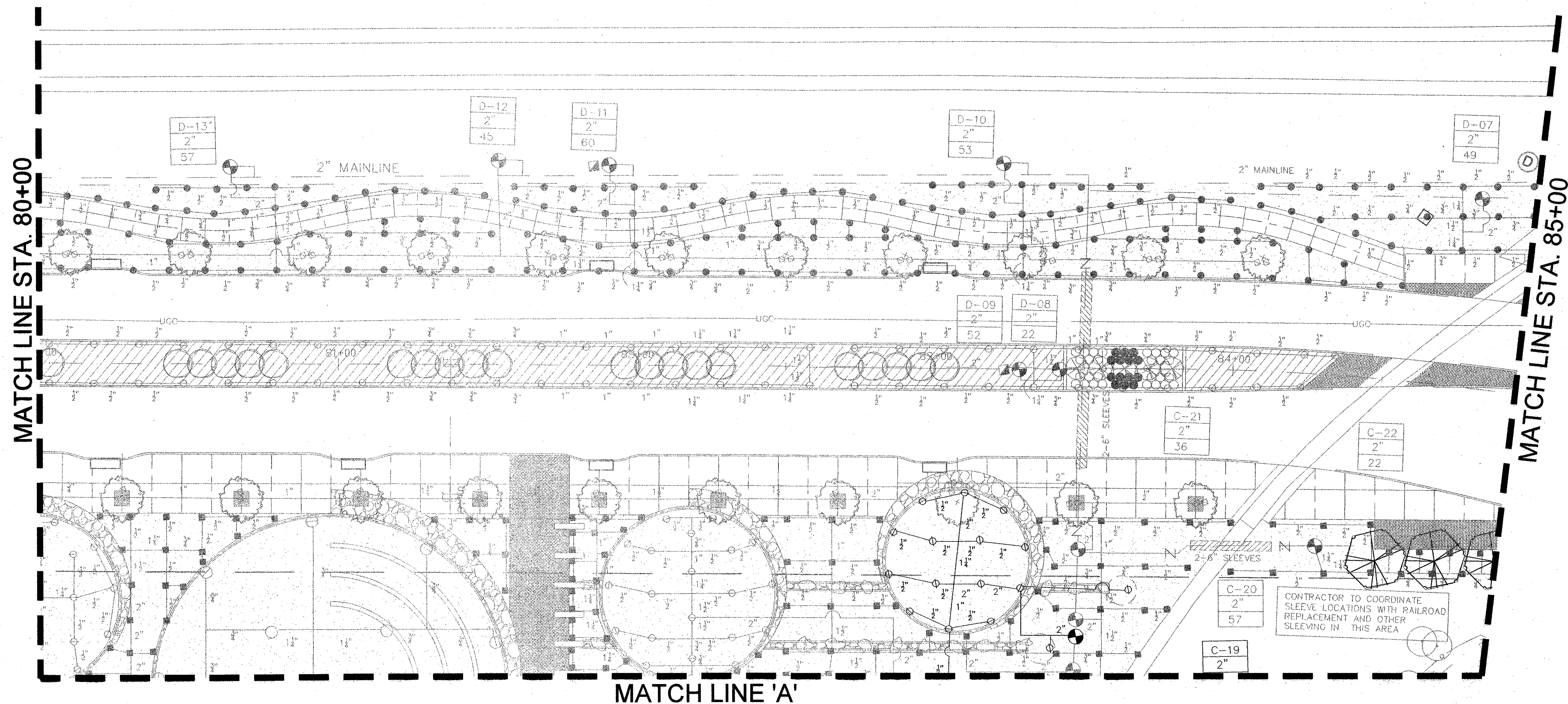
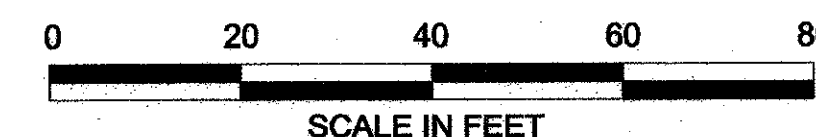
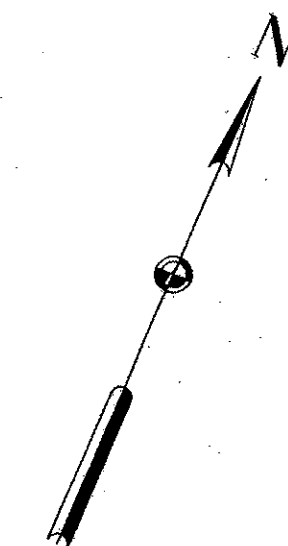
MATCH LINE STA. 37+00

MATCH LINE STA. 40+00



NO.	DATE	REVISION	APPROV.
HNTB ARCHITECTS ENGINEERS PLANNERS <small>The HNTB Companies</small>			
ARAPAHO ROAD EXTENSION			
SURVEYOR BOULEVARD TO ADDISON ROAD			
IRRIGATION PLAN ALTERNATE #1 STA 37+00 TO 40+00			
TOWN OF ADDISON, TEXAS			
Design TW	Drawn TW	DATE 6/3/04	SCALE VARIES
Check TW	Check MP	PROJECT NO. 25768	SHEET NO. IR-15

238



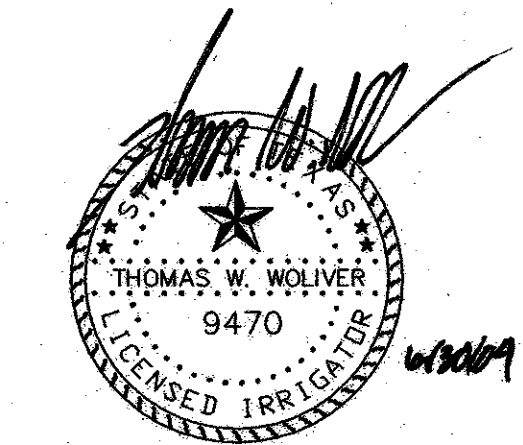
MATCH LINE 'A'

IRRIGATION LEGEND:

- RAINBIRD 1804-PRS-SAM SERIES 4" POP-UP SPRAY - MPR NOZZLES
- RAINBIRD 1806-PRS-SAM SERIES 6" POP-UP SPRAY - MPR NOZZLES
- RAINBIRD 1812-PRS-SAM SERIES 12" POP-UP SPRAY - MPR NOZZLES
- ◇ TORO FB-PC-50 SERIES 12" POP-UP BUBBLERS - TURF AREAS
- ◆ TORO FB-100 ON SCH 80 RISER W/SHRUB ADAPTOR - TREE WELLS
- HUNTER I20-ADV SERIES - 8.0 NOZZLE
- ⊖ HUNTER I20-ADV SERIES - 4.0 NOZZLE
- ⊕ HUNTER I20-6P-ADV SERIES - 8.0 NOZZLE
- ⊖ HUNTER I20-6P-ADV SERIES - 4.0 NOZZLE
- △ HUNTER I20-HP-ADV SERIES - 8.0 NOZZLE
- ▲ HUNTER I20-HP-ADV SERIES - 4.0 NOZZLE
- ⊕ WEATHERMATIC 11000CR SERIES REMOTE CONTROL VALVE
- ⊖ MANIFOLD VALVES SHALL BE SPACED 4'-0" APART
- BUCKNER QB3SBL07 SINGLE LUG 3/4" QUICK COUPLING VALVE
- N SPEARS PLASTIC BALL VALVE - Same size as mainline
- ⊗ WATTS 007M SERIES INLINE DCA - 2"
- M HERSEY MVR WATER METER - 2"
- ⊕ RAINMASTER EVOLUTION DX-2 CONTROLLER- ELECTRICAL POWER DISTRIBUTION AND PHONE SERVICE LINES TO THE IRRIGATION CONTROLLERS SHALL BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR. THE ELECTRICAL AND PHONE LINES (AND ALL RELATED WORK) SHALL BE INSTALLED PER ALL LOCAL, STATE, AND NATIONAL CODES.
- ⊕ FLOW METER - SAME SIZE AS MAINLINE - FS-200 DATA INDUSTRIAL FLOW METER
- ▬ SCHEDULE 40 PVC MAINLINE - REF PLAN
- ▬ Class 315 IPS or Class 200 IPS Lateral Line
- ▨ SCH 40 PVC SLEEVE - PERMANENTLY MARK CURBS WITH LOCATIONS OF SLEEVES PER CITY STANDARDS
- ⊕ ZONE CONTROLLER - STATION NUMBER
- ⊖ VALVE SIZE
- GPM GPM PER VALVE

CONTRACTOR SHALL VERIFY NOZZLE SIZES IN FIELD FOR MPR AND HEAD TO HEAD COVERAGE. CONTRACTOR TO MINIMIZE OVERSPRAY. NO OVERSPRAY ONTO PAVEMENT SHALL BE ACCEPTED.

CONTRACTOR TO COORDINATE SLEEVE LOCATIONS WITH RAILROAD REPLACEMENT AND OTHER SLEEVING IN THIS AREA



238A

NO.	DATE	REVISION	APPROV.
HNTB ARCHITECTS ENGINEERS PLANNERS The HNTB Companies			
ARAPAHO ROAD EXTENSION			
SURVEYOR BOULEVARD TO ADDISON ROAD			
IRRIGATION PLAN ALTERNATE # 1 STA 80+00 TO 85+00			
TOWN OF ADDISON, TEXAS			
Design TW	Drawn TW	DATE	SCALE
Check TW	Check MP	6/3/04	VARIES
PROJECT NO. 25768		SHEET NO. IR-16	

Town of Addison Irrigation Specifications

These revised specifications supersede any and all others. However, any discrepancies between the approved construction plans and those of the Town **MUST** be brought to the attention of the Town's designated representative for a final determination. The contractor will present the Town's representative an as-built plan at the final walk-through, along with three Buckner V075 quick coupling keys with hose-end swivels.

- All work is to be accomplished by or directly supervised at all times by an on-site Irrigator licensed by the State of Texas.
- The contractor shall verify the water pressure before the installation begins. If the static pressure is different than that of the design pressure, contact the designer and Town's representative immediately so changes can be made. Send a fax to the Parks Dept. at 972-450-2834 with the current dated and timed static pressure reading. Design head to head with no single head coverage. Use appropriate size nozzles for a given landscape area so as not to spray onto or over paved surfaces or structures. Do not exceed manufacturer's recommendations.
- The irrigation installer is responsible for resetting head and/or box height due to settling and after turf, groundcover, shrubs, trees, and mulch is added to the landscape areas. The irrigation contractor must supply a workmanship warranty for (1) year from date of acceptance.
- Plans are diagrammatic and field adjustments are often necessary. For this reason, prior to trenching, valve locations and head layout with flags needs to be done and approved by the Town's irrigation inspector. Not doing so may result in the relocation of heads and/or valves at the irrigation contractor's expense.

5. Water Taps: Water taps will be 2" in size. All parts must conform to the Town of Addison Water Department specifications and are the responsibility of the irrigation contractor to provide. Inspection of taps by the Water Department Representative **must** occur. Excavation and tap permits are required. Contact the Town of Addison Water Department at (972) 450-2871.

6. Water Meters: Only Master or Harsey meters with two (2) brass flanges are acceptable. Meter lay lengths must be in accordance with the Town of Addison Water Department's specifications, housed in appropriate size (to be determined by the Town's Irrigation Inspector) concrete box with lid. New stainless steel bolts and nuts must be used in the installation along with new neoprene gaskets. The box should be level with the final grade using concrete pavers to support and prevent sinking. Backfill inside the box, 3" below meter base with at least 6" of fine (1/2") pea gravel. Connection to main must be approved and inspected by the Town's Water Department Inspector and all tap materials are to be purchased at the expense of the contractor and must comply with the Town of Addison's specifications.

7. Backflow Devices: Only Watts 007 M series inline check valve assemblies with the stainless steel ball valve handles and nuts are to be used. Irrigation contractor shall provide and install brass plugs for the test cocks. Connect to the flange using teflon taped copper nipple of sufficient length to center the DCA within its housing. The device will be housed in an appropriate size, (to be determined by the Town's Irrigation Inspector) rectangular concrete box with lid using concrete pavers for proper stability and use extensions to adjust height. The irrigation contractor shall be responsible for the DCA testing in accordance with State of Texas law, using a Licensed Backflow Assembly Tester registered with the Town of Addison Water Department.

8. Sleeves: All paving must have Town approved sleeve sizes and quantities present. It is the responsibility of the irrigation contractor to notify the Town's Irrigation Inspector of any area where sleeves should be present but are not and provide such materials at his cost. Any paving installed without sleeves will necessitate a bore and subsequent materials at the irrigation contractor's expense. All sleeves 2" and smaller will be Schedule 40 PVC with size and location noted on the plan. Larger sizes will be Class 200. All piping underneath paving, including sidewalks, must be sleeved. All sleeves are to be belted end PVC pipe. A minimum length of 12 inches of sleeve material must extend beyond the pavement.

9. Glue and Primer: Use Turfite brand glue on laterals and IPS Grey Heavy Body on main lines and a good quality purple primer on all. Avoid excessive use and wipe excess glue off of all joints and fittings with a clean rag.

10. Pipe: All main line pipe 2 inches and smaller is to be Schedule 40 belled PVC; larger sizes are to be Class 200 belled PVC with a minimum depth of 14" and a maximum depth of 16". Put not more than two (2) pipes in any one trench and separate the main line from the lateral line with at least two (2) inches of cover. Class 200 belled PVC lateral piping is to be used with a minimum depth of 12" and a maximum depth of 14".

11. Fittings: No crosses are permitted. Separate tees, 45° elbows and other fittings by at least 12 inches. Reduction tees are preferred over use of single reducer bushings. Multiple reducer bushings will not be accepted. Only Spears and/or Lasco fittings are permitted. Allow 18 inches outside of sleeve before the first fitting. No 45 degree elbows on 1 inch and larger pipe are allowed.

12. Valves:
A. Master Valves: Every point of connection to the water supply system shall have a Weathermatic 11000 FCR series valve as the Master Valve, housed in a standard (large) Ametek rectangular plastic valve box with 4 to 6 inches of small (1/2") pea gravel placed underneath the valve in such a manner as to prevent soil infiltration into the box. Use concrete pavers or bricks placed under edges of valve box for stability. Note: Valve box must not rest on pipe. Blue wire shall be used as the station wire for the Master Valve.

B. Station Valves: Only Weathermatic 11000 FCR series valves are permitted. A Ball Valve will be installed before every station or zone valve. They are to be located within a standard (large) Ametek rectangular plastic valve boxes with 4 to 6 inches of (1/2") pea gravel placed underneath the valve in such a manner as to prevent soil infiltration into the box. The pea gravel should be 2 inches from the bottom of the valve body. A minimum of 3" inches of valve box must extend below bottom of valve. If necessary use valve box extensions.

C. Ball Valves: Female threaded plastic Spears or Lasco ball valves with positive T-handle cut off must be installed on every 200 feet of mainline for isolation purposes. A ball valve is also required to be installed before every station valve. Use 10" Ametek valve box with a minimum of 3" extending below bottom of valve and fill to bottom of valve with 1/2" pea gravel. Use bricks or concrete pavers under box for stability.

D. Quick Coupler Valves: Use only Buckner V075 single lug 3/4" quick coupling valves with a metal top. They are to be connected to a threaded fitting. Teflon tape and appropriate length of gray schedule 80 nipples and schedule 40 fittings are to be used for the swing joint. Secure to 18 inch by 1/2 inch steel rebar with a stainless steel worm screw clamp. House QCV in a 10 inch round plastic Ametek valve box. Install Spears ball valve prior to each QCV. Bricks or pavers need to be installed under edges of valve boxes for stability. Backfill bottom of box with 1/2" pea gravel half way up body of valve.

E. Flowmeters: Purchase from a Rain Master supplier and install appropriately sized Data Industrial flowmeter. Follow all installation instructions as approved by Rain Master. The irrigation contractor must also purchase from Rain Master and install shielded Rain Master EV-Cab-Sen flow meter cable and install within continuous 3/4" or larger gray PVC conduit with 6 inch or larger J-boxes placed every 200 feet or where 360 degrees of fittings are installed; only sweep fittings are permitted. Only a continuous run of cable is allowed; no splices will be allowed except at the point of connection to the flow meter. Connections at the flow meter must first be soldered and then water proofed within a 3-M DBY connector. Note: certain Rain Master requirements must also be met regarding installation order and distances of separation between DCA, flow meter, master valve and the first fitting. It is the responsibility of the irrigation contractor to adhere to these requirements. At final walk through, proper operation of the flow meter at the Rain Master controller must be demonstrated by the irrigation contractor.

13. Heads: All heads will be installed using polyethylene green nipples (2"x6" for rotors and 1/2"x6" for pop-ups) screwed into threaded fittings unless noted otherwise. No swing joints on 4" pop-ups or rotors will be allowed.

A. Pop-ups - Only Rainbird 1800 series are permitted. Install 1/4 inch above the finished grade.

a. 4 inch pop-ups: turf, tree bubblers within turf areas (use Hunter PCN 10 bubbler nozzles on spray heads).

b. 6 inch pop-ups with no side inlet: very low ground cover (less than 6 inches at mature height).

c. 12 inch pop-ups with side inlet: Ground cover and low growing shrubs. The ground cover and shrubs should not be more than 12" at maturity. The Town Inspector reserves the right to determine if and when side inlets installed using funny pipe versus the bottom inlet will be allowed. When authorized, use Hardie Blue Line Pipe with Toro barb fittings.

d. Use 1/2" Sch 80 risers with schrub adapter and Hunter PCN 10 bubbler nozzles for all tree wells with tree grates. Risers shall be a minimum of 2" below bottom of tree grates with nozzle 2" above mulch.

B. Rotors - Only Hunter I-20 Series are permitted, unless noted otherwise. Install 3/4" above finished grade.

14. Risers: Use Sch 80 PVC with Weathermatic LXS Series shrub head adapters with a 1/2"x6" green poly cut-off nipple screwed into the threaded fitting in the ground and a threaded coupling between the two. The irrigation inspector reserves the right to determine placement of risers versus pop-ups.

15. Wiring: All wires will be 14 gauge UF. Station wires will be red. Common wires will be white. Master valve wire will be blue. Anytime the wiring changes direction, such as at an elbow or a tee, allow a loop of at least 12 inches alongside the fitting at that location. Only continuous wire runs are permissible. Wire should follow the main line where possible and lay along a single side not crossing over lateral lines. Wire is to be placed under mainline with 2" of dirt between wire and pipe.

16. Wire Connectors: Use only DBY connectors for all field wire splices other than at the valves themselves. Allow at least 36 inches of pigtailed wire at each splice. Use King One Step tan colored connectors for all valve splices. All valve box wires are to be housed in standard (large) Ametek rectangular plastic valve boxes. All field splices are to be in 10 inch round Ametek plastic valve boxes or standard, large rectangular Ametek plastic valve boxes at the discretion of the Town's representative. Number of splices is determining factor for choice of box size.

17. Backfilling: Prior to any backfilling of trenches, an inspection by the Town's irrigation representative must take place and any necessary changes implemented; otherwise manual excavation to enable proper inspection will be necessary. Use clean and approved topsoil to backfill all pipe to depth. All heads and boxes are to be backfilled to grade with clean topsoil. No rocks greater than 1 inch are allowed. Compact trenches to alleviate settling. Minimal depth of coverage is 12 inches.

18. Valve sequencing must be performed by the contractor and in an order approved by the Town Irrigation Inspector. At least 12 inches of extra station wiring within the bottom of the pedestal is necessary for each zone and must be of neat and orderly appearance.

19. Any deficiencies in coverage noted by the Town's irrigation inspector will be rectified at the cost of the contractor.

20. Controller: A Town irrigation representative will determine the type of controller to be used. All controllers shall have a concrete pad of 36"x36"x6". Pad will be set at 3" above final grade. Install the controller after the concrete pad is completely cured (two days). Use only appropriately sized stainless steel bolts, washers and nuts to secure the controller to the concrete pad. All wiring is to enter the pedestal via appropriately sized PVC sweep elbows extending at least 1" thru and 6" out from under the pad. Control/master valve wiring, flow meter wiring and 120-V service wiring are to be separated with each having its own access elbow. An additional spare 3/4" sweep elbow for phone service is to be installed as well. All national and local codes must be followed during the installation.

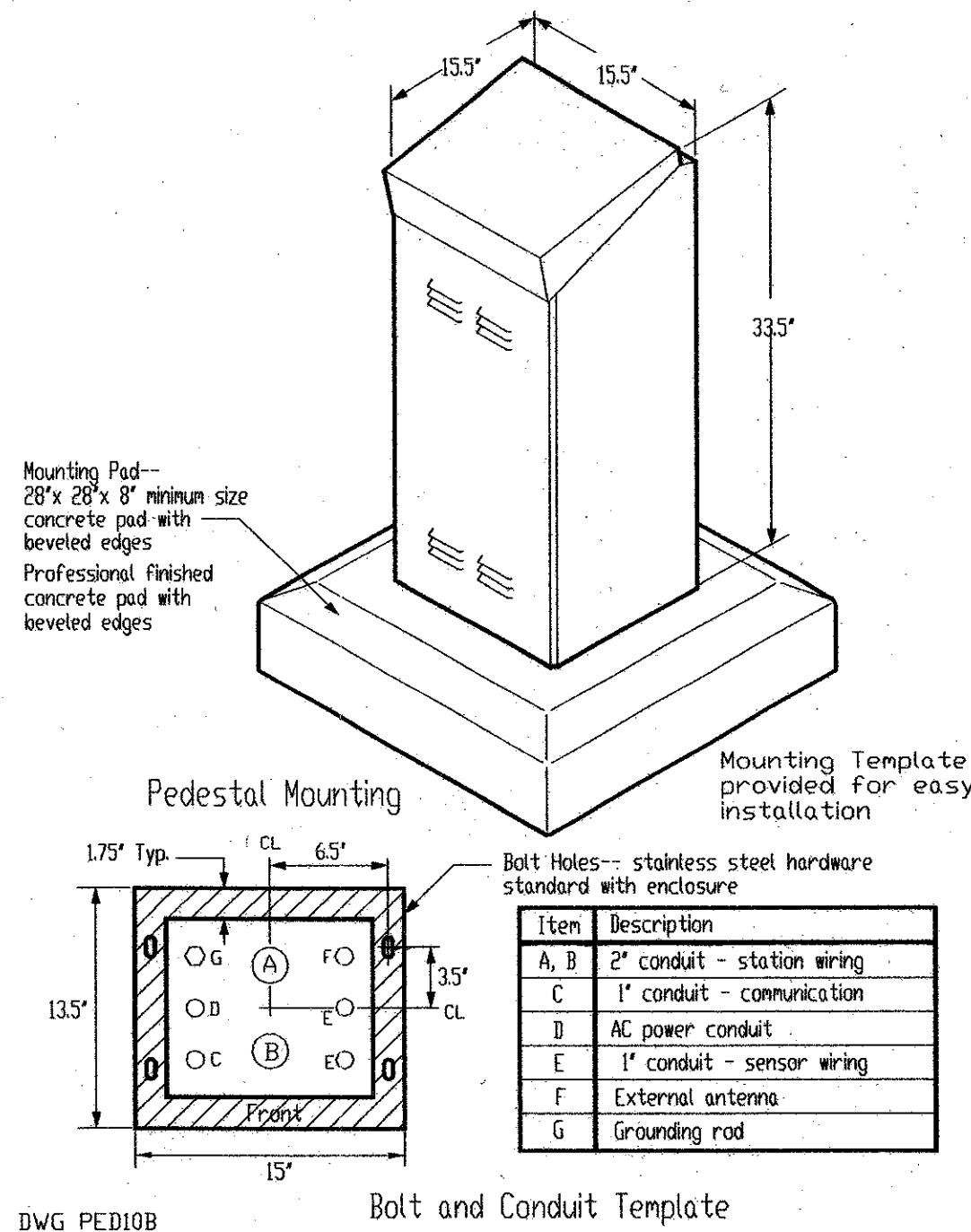
A. A/C controller - Only Irritrol MC Plus controllers will be acceptable. Both Mini-click rain and freeze sensors will be installed and placed where they can operate properly. All non-Rain Master controllers must be permanently wired for quick attachment to a Rain Master remote control unit.

B. Battery and/or Solar Operated Controllers - Only LEIT controllers will be acceptable. Install rain or freeze sensors on these controllers with SKIT8821-4 installation kit. Install on galvanized thick wall poles and set controller panel to height above finished grade to be determined by Town's representative.

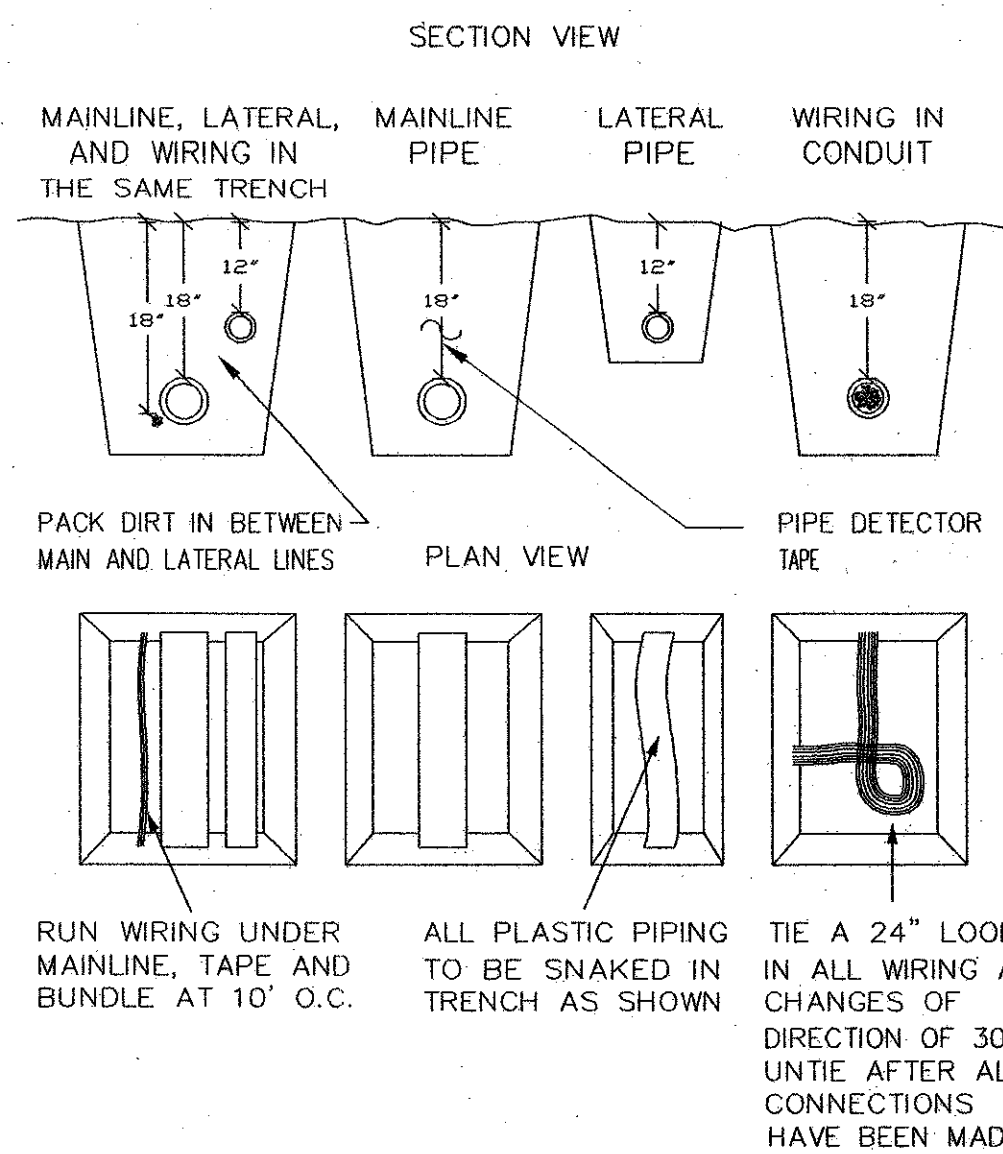
C. Rain Master: Only an approved size Rain Master Evolution DX-2 controller with a stainless steel pedestal and heavy duty transient protection is permitted. The controller must include all necessary hardware to ensure reliable communication and operation with the Town's central control located at 16801 Westgrove. Installation must include the following Rain Master hardware, purchased only from a Rain Master supplier: DX-03 sensor board, DX-PH phone communication option, Data Industrial flow meter (same size as the mainline), and shielded EV-CAB-SEN flow meter cable. It is the irrigation contractor's responsibility to entail the cost of and work in conjunction with South Western Bell Telephone to establish a dedicated phone service and install an interface within the pedestal at each controller location via direct burial cable within 1" PVC conduit. The entire installation must conform to Rain Master specifications and be approved by the Town's Irrigation Inspector prior to and be inspected during installation. Such specifications will include grounding and pad configurations and distances of separation from water meter to DCA to master valve to flow meter and the first fitting. A functional Mini-click freeze and rain sensor with a Hunter bypass switch must be installed in an approved location and by an approved method. For part numbers and pricing of any Rain Master equipment, contact Mark Stricker of John Deere Landscapes at 972-881-0205. For technical questions, call John DuBose of RainMaster at 214-632-2289.

21. Communication is the key. If you are unsure, CALL. Ron Lee, the Operations Manager of the Addison Parks Department at (972) 450-2863.

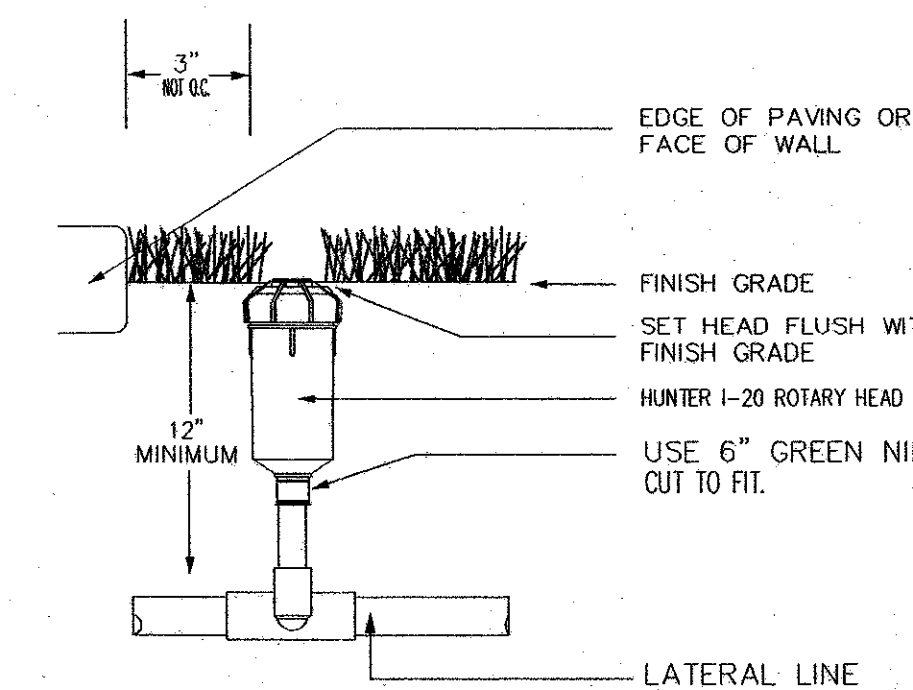
22. THIS SYSTEM IS BASED ON A MINIMUM OPERATING PRESSURE ON 60 PSI AND TOTAL DEMAND OF 60 GPM. NOTIFY TOWN'S REPRESENTATIVE IF ANY DISCREPANCY ARISES.



08 STAINLESS STEEL PEDESTAL
N.T.S.

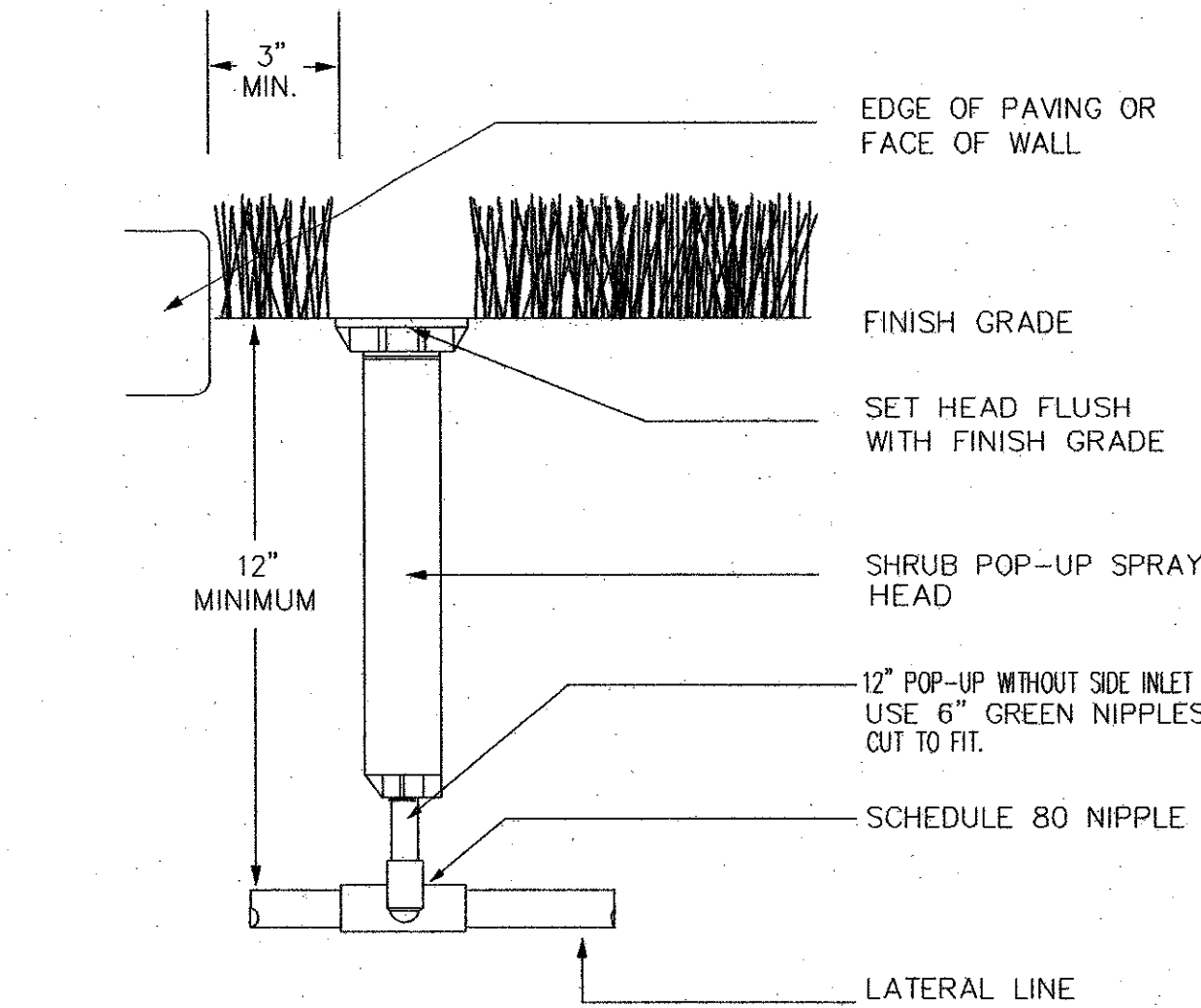
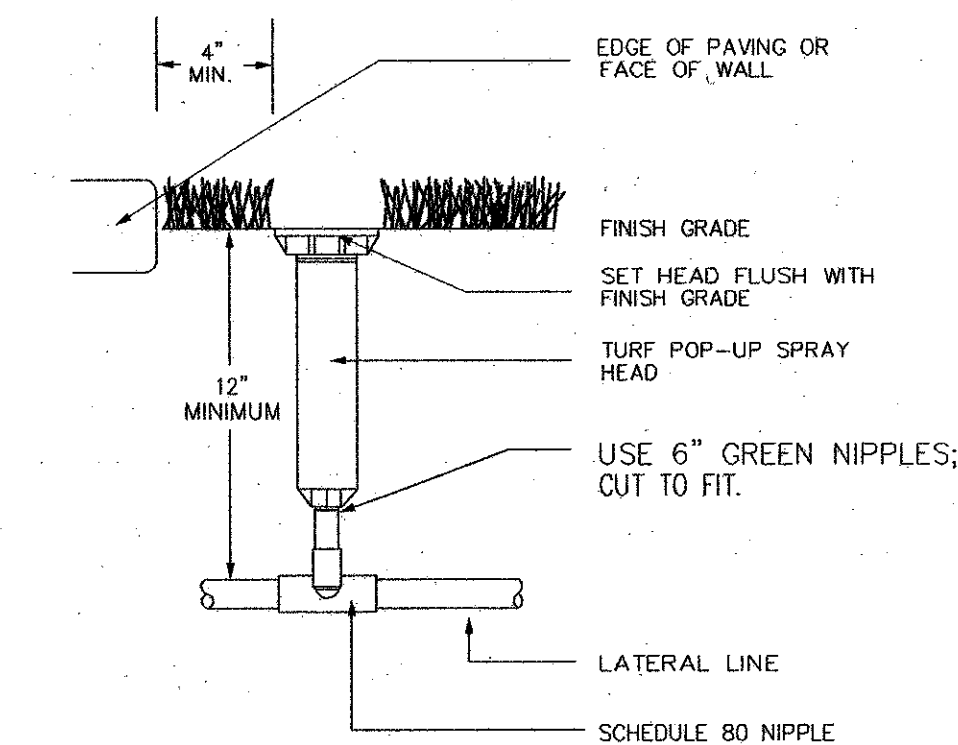


07 TRENCHING
N.T.S.

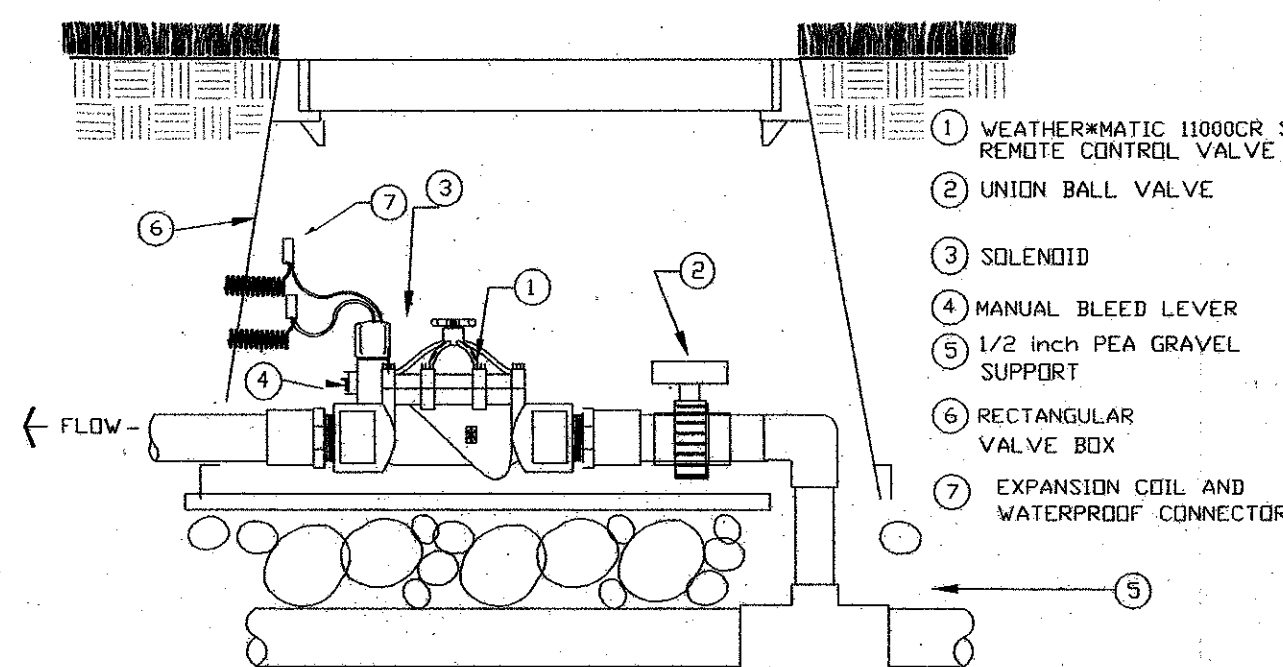


06 ROTOR HEAD
N.T.S.

05 TURF HEAD POP-UP
N.T.S.

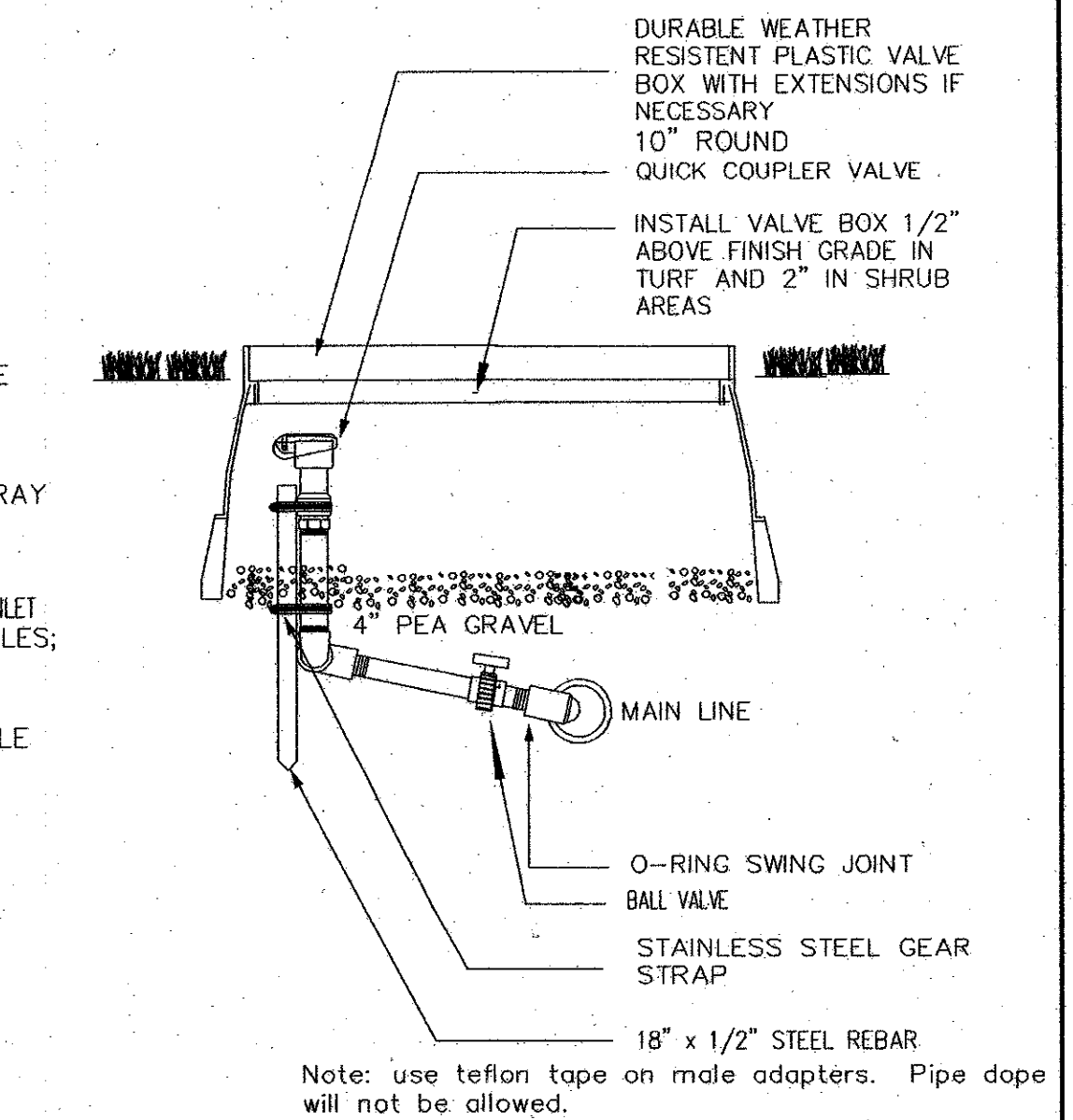
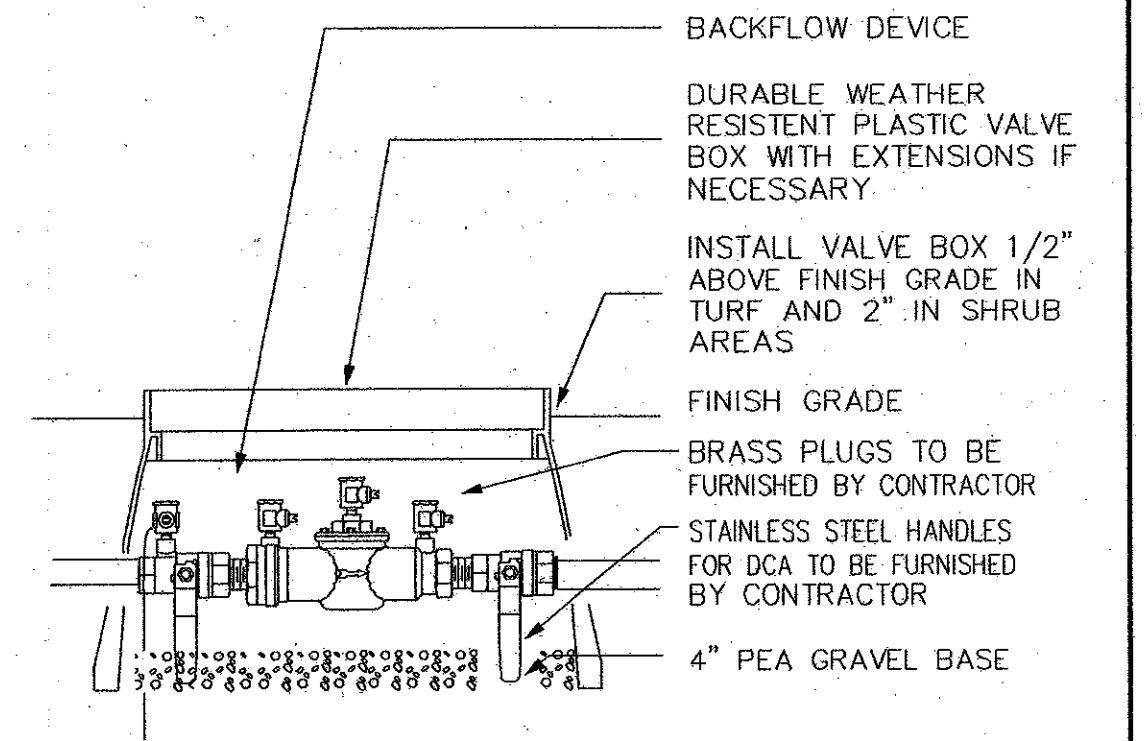


04 SHRUB POP-UP SPRAY
N.T.S.

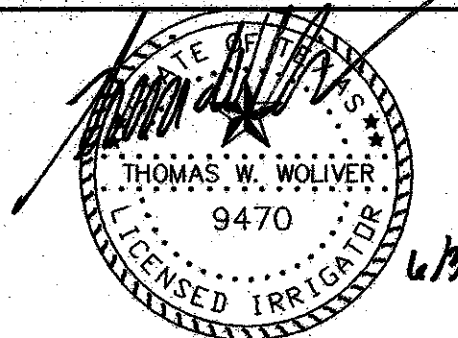


03 CONTROL VALVE
N.T.S.

02 DOUBLE CHECK ASSEMBLY
N.T.S.

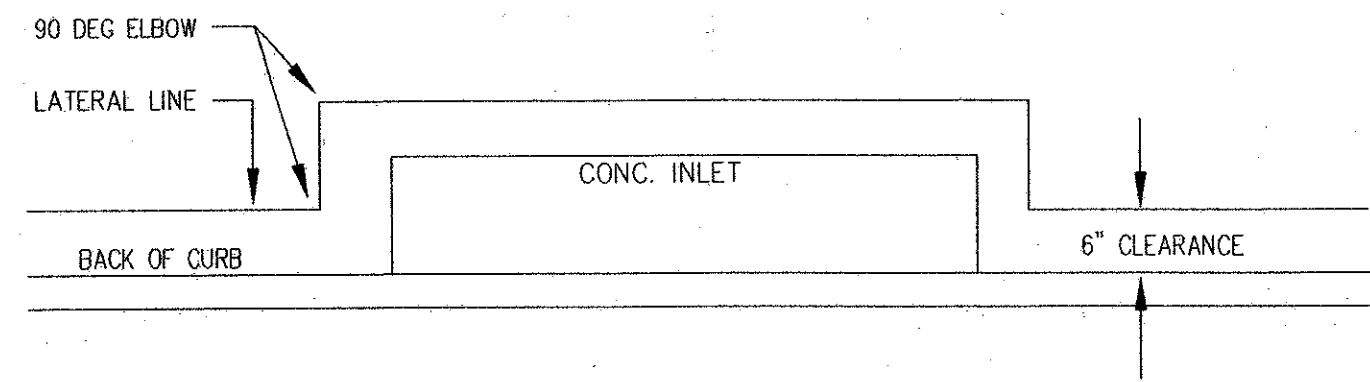


01 QUICK COUPLER VALVE
N.T.S.



NO.	DATE	REVISION	APPROV.
HNTB ARCHITECTS ENGINEERS PLANNERS The HNTB Companies			
ARAPAHO ROAD EXTENSION			
SURVEYOR BOULEVARD TO ADDISON ROAD			
IRRIGATION PLAN IRRIGATION DETAILS			
TOWN OF ADDISON, TEXAS			
Design TW	Drawn TW	DATE	SCALE
Check TW	Check MP	6/3/04	VARIES
		PROJECT NO.	SHEET NO.
		25768	IR-17

09 PIPING AROUND INLET
N.T.S.



09 PIPING AROUND INLET
N.T.S.