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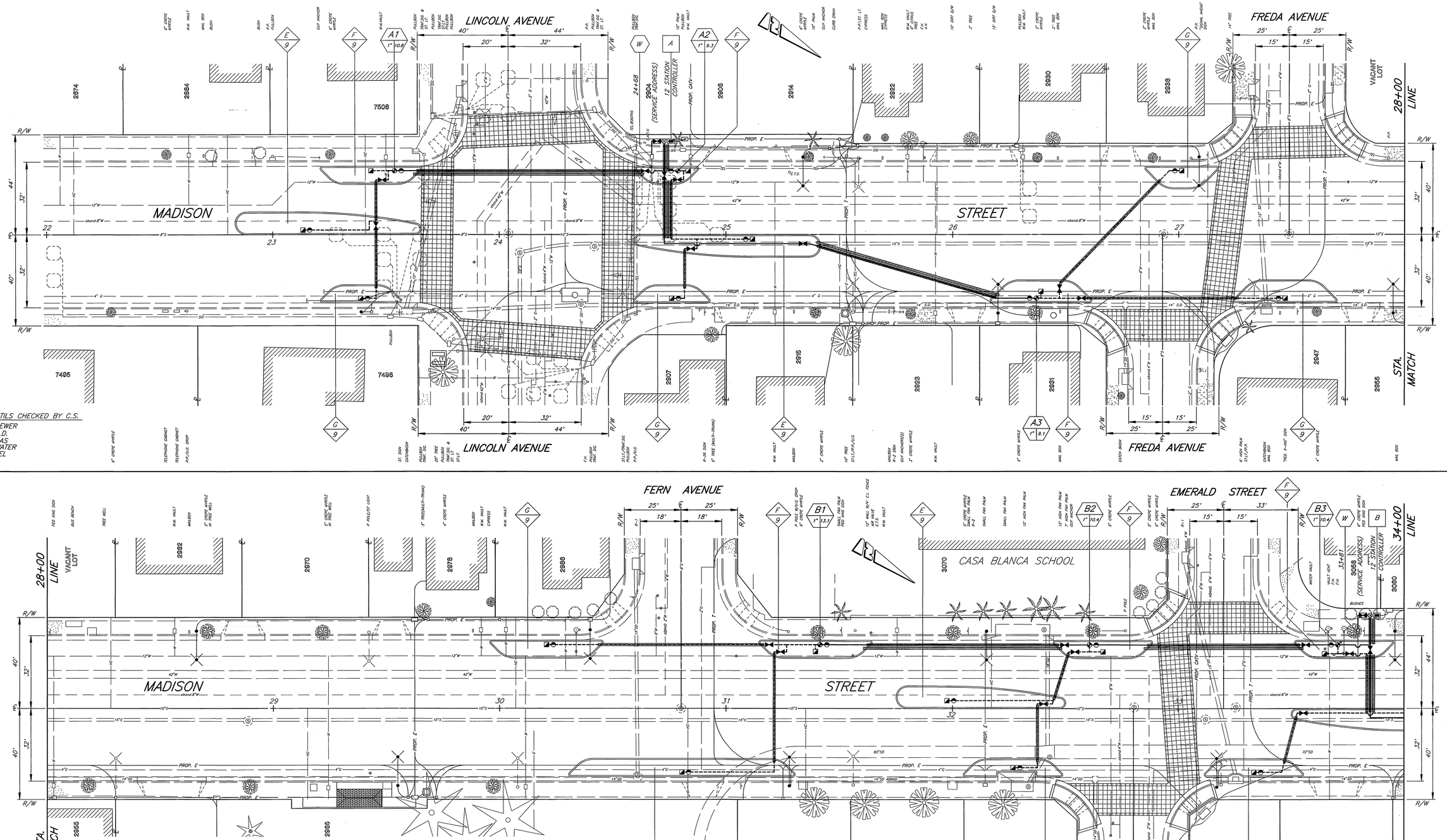

IRRIGATION LEGEND

SYMBOL	DESCRIPTION	MANUFACTURE & MODEL NO.	REMARKS
	CONTROLER STATION G.P.M. DEMAND SIZE PER SPECIAL PROVISIONS		
	WATER METER	(TO BE INSTALLED BY CITY FORCES)	(VERIFY SIZE AND PRESSURE AVAILABLE)
	BACKFLOW DEVICE IN ENCLOSURE	FEBCO 825YA / V.I.T. SBBC-15AL	
	CONTROLLER IN ENCLOSURE	RAINBIRD ESP-12LX+ / V.I.T. SB-16SSW	PROVIDE ELECTRICAL SERVICE PER DETAIL
	MASTER CONTROL VALVE	GRISWOLD SERIES 2000 1-1/2" DIA.	IN RECTANGULAR CONCRETE VALVE BOX
	REMOTE CONTROL VALVE ASSEMBLE (INCLUDES DISC FILTER)	TORO 254-06-04, 1" / TORO 730-04 WYE STRAINER	IN RECTANGULAR PLASTIC VALVE BOX
	QUICK COUPLER VALVE	RAINBIRD 44ODLRC 1"	IN ROUND PLASTIC VALVE BOX
	PRESSURE REGULATOR VALVE ASSEMBLE (INCLUDES ISOLATION VALVE)	NETAFIM PRVO75HF20 / WATTS 6800 SERIES, 3/4"	IN RECTANGULAR PLASTIC VALVE BOX
	ISOLATION VALVE	WATTS 6800 SERIES LINE SIZED	IN ROUND CONCRETE VALVE BOX
	CONSTANT PRESSURE MAIN LINE	1-1/2" SCHEDULE 40 PVC	
	PVC SCHEDULE 40 SLEEVE	2X LINE SIZE OR AS NOTED	
	INTERMITTENT PRESSURE LATERAL LINE	1-1/2" SCHEDULE 40 PVC	

UTILITY CHECKED CS
SEWER
STORM DRAIN
GAS
WATER
TEL

CONSTRUCTION NOTE

(W) 3/4" WATER METER TO BE INSTALLED BY PUBLIC UTILITIES DEPARTMENT, WATER DIVISION.

ENGINEER IN RESPONSIBLE CHARGE
RICHARD D. McGRATH
R.C.E. No. 31952 expires 12/31/00
DATE 6-26-98

REGISTERED PROFESSIONAL ENGINEER
RICHARD D. McGRATH
No. 31952
Exp. 12-31-00
CIVIL
STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE

DESIGNED BY R.G. FANN DRAWN BY R.G. FANN CHECKED BY

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
STREET SERVICES		
SURVEYOR		
TRAFFIC DIVISION		
PARKS DEPARTMENT		

APPROVED BY
PUBLIC WORKS DIRECTOR
DATE 6-26-98

MADISON STREET
STREETSCAPE IMPROVEMENTS
LINCOLN AVE. TO EVANS ST.
IRRIGATION PLANS

HORIZ. SCALE: 1" = 20'

ACCT. NO. 472-528120-440446-90162

R-3454

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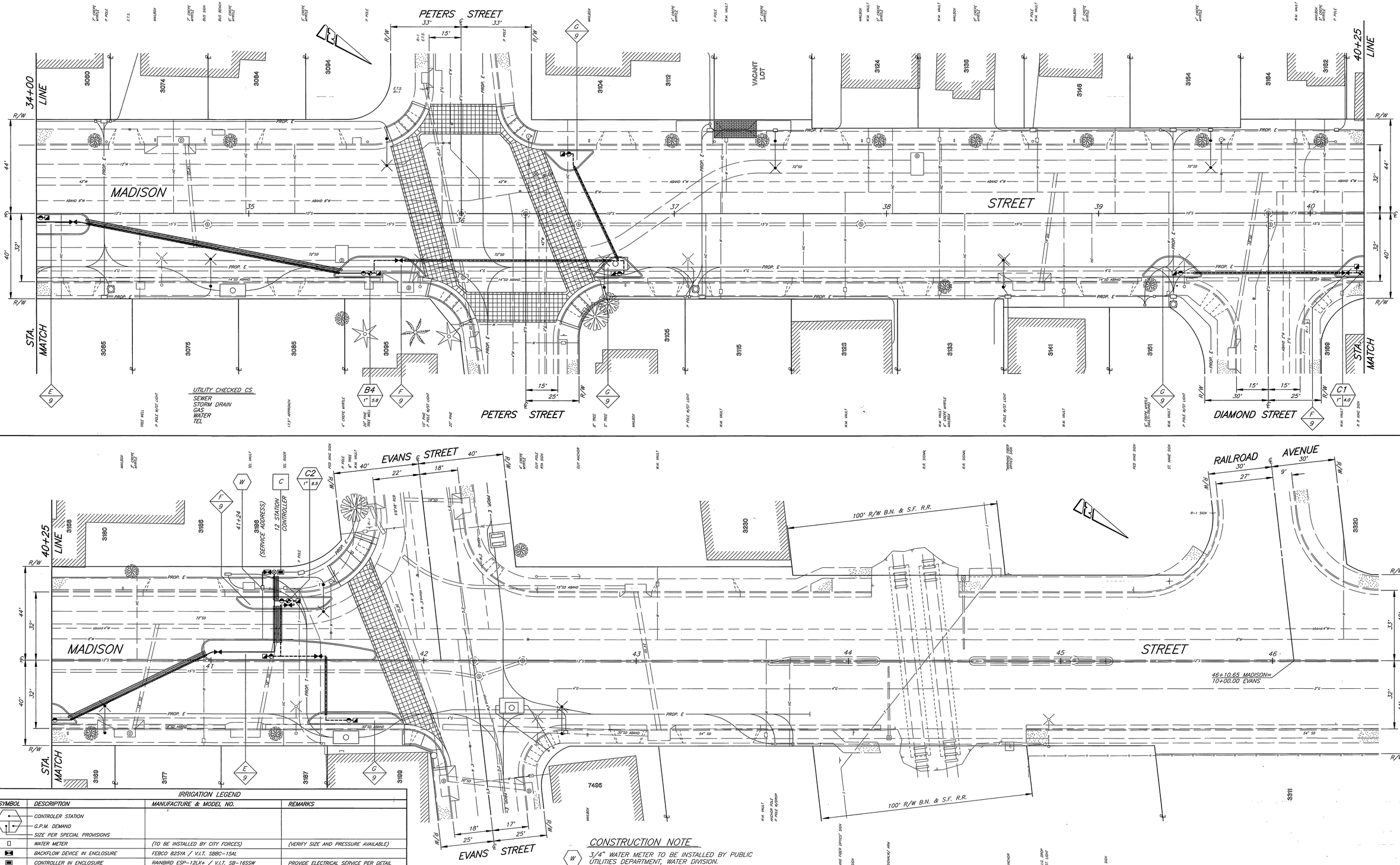

IRRIGATION LEGEND

SYMBOL	DESCRIPTION	MANUFACTURE & MODEL NO.	REMARKS
	CONTROLER STATION G.P.M. DEMAND SIZE PER SPECIAL PROVISIONS		
	WATER METER	(TO BE INSTALLED BY CITY FORCES)	(VERIFY SIZE AND PRESSURE AVAILABLE)
	BACKFLOW DEVICE IN ENCLOSURE	FEBCO 825YA / V.I.T. SBBC-15AL	
	CONTROLLER IN ENCLOSURE	RAINBIRD ESP-12LX+ / V.I.T. SB-16SSW	PROVIDE ELECTRICAL SERVICE PER DETAIL
	MASTER CONTROL VALVE	GRISWOLD SERIES 2000 1-1/2" DIA.	IN RECTANGULAR CONCRETE VALVE BOX
	REMOTE CONTROL VALVE ASSEMBLE (INCLUDES DISC FILTER)	TORO 254-06-04, 1" / TORO 730-04 WYE STRAINER	IN RECTANGULAR PLASTIC VALVE BOX
	QUICK COUPLER VALVE	RAINBIRD 44DLRC 1"	IN ROUND PLASTIC VALVE BOX
	PRESSURE REGULATOR VALVE ASSEMBLE (INCLUDES ISOLATION VALVE)	NETAFIM PRV075HF20 / WATTS 6800 SERIES, 3/4"	IN RECTANGULAR PLASTIC VALVE BOX
	ISOLATION VALVE	WATTS 6800 SERIES LINE SIZED	IN ROUND CONCRETE VALVE BOX
	CONSTANT PRESSURE MAIN LINE	1-1/2" SCHEDULE 40 PVC	
	PVC SCHEDULE 40 SLEEVE	2X LINE SIZE OR AS NOTED	
	INTERMITTENT PRESSURE LATERAL LINE	1-1/2" SCHEDULE 40 PVC	

CONSTRUCTION NOTE

(W) 3/4" WATER METER TO BE INSTALLED BY PUBLIC UTILITIES DEPARTMENT, WATER DIVISION.

UTILITY CHECKED CS
SEWER
STORM DRAIN
GAS
WATER
TEL

ENGINEER IN RESPONSIBLE CHARGE
Richard D. McGrath
RICHARD D. McGRATH
R.C.E. No. 31952 expires 12/31/00
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DESIGNED BY R.G. FANN DRAWN BY R.G. FANN CHECKED BY

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
STREET SERVICES		
SURVEYOR		
TRAFFIC DIVISION		
PARKS DEPARTMENT		

APPROVED BY
PUBLIC WORKS DIRECTOR
DATE 6-22-98

MADISON STREET
STREETSCAPE IMPROVEMENTS
LINCOLN AVE. TO EVANS ST.
IRRIGATION PLANS

HORIZ. SCALE: 1" = 20'

ACCT. NO. 472-528120-440446-90162

R-3454

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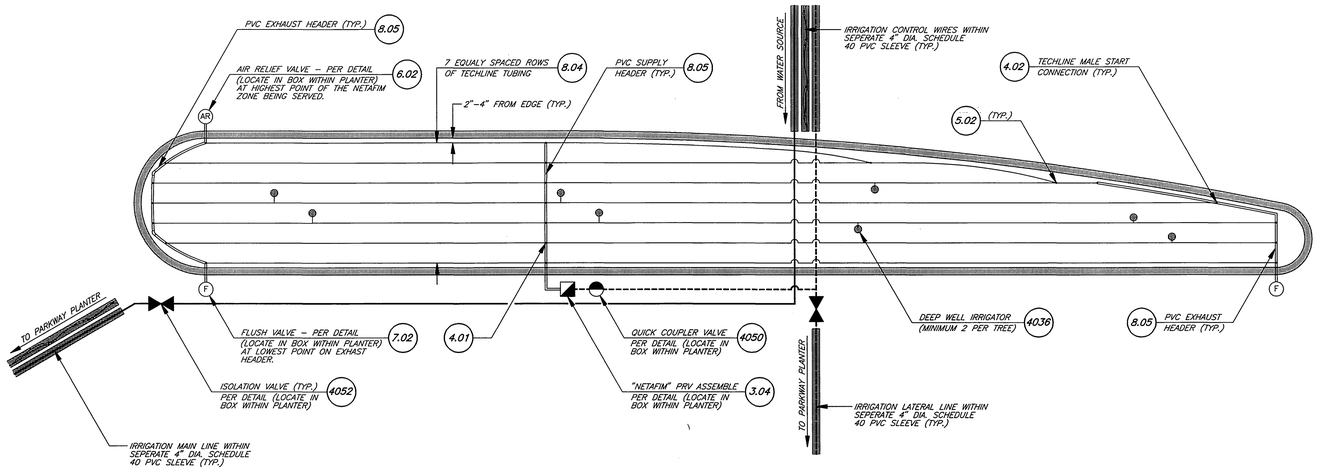


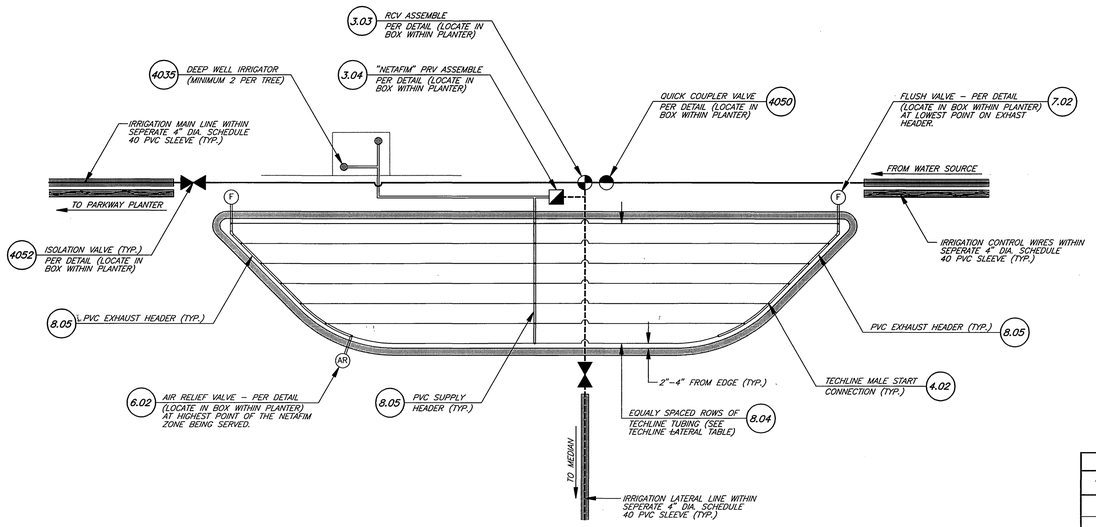
E/9 TYPICAL MEDIAN IRRIGATION DETAIL

SCALE: 1"=5'

IRRIGATION LEGEND			
SYMBOL	DESCRIPTION	MANUFACTURE & MODEL NO.	REMARKS
	IRRIGATION DETAIL NUMBER		IRRIGATION DETAILS INCLUDED WITH SPECIAL PROVISIONS
	REMOTE CONTROL VALVE ASSEMBLE (INCLUDES DISC FILTER)	TORO 254-06-04, 1" / TORO 730-04 WYE STRAINER	IN RECTANGULAR PLASTIC VALVE BOX
	QUICK COUPLER VALVE	RAINBIRD 44DLRC 1"	IN ROUND PLASTIC VALVE BOX
	PRESSURE REGULATOR VALVE ASSEMBLE (INCLUDES ISOLATION VALVE)	NETAFIM PRV075HF20 / WATTS 6800 SERIES, 3/4"	IN RECTANGULAR PLASTIC VALVE BOX
	ISOLATION VALVE	WATTS 6800 SERIES LINE SIZED	IN ROUND CONCRETE VALVE BOX
AR	AIR/VACUUM RELIEF VALVE	NETAFIM TLAVRV WITH 1/2" MPT	IN ROUND PLASTIC VALVE BOX
F	FLUSHVALVE	NETAFIM TL050MF V-1 WITH 1/2" MPT	IN ROUND PLASTIC VALVE BOX
	CONSTANT PRESSURE MAIN LINE	1-1/2" SCHEDULE 40 PVC	
	INTERMITTENT PRESSURE LATERAL LINE	1-1/2" SCHEDULE 40 PVC	
	PVC SUPPLY / EXHAUST HEADER	3/4" CLASS 200 PVC	
	TECHLINE DRIP EMITTER LATERAL	PER SPECIAL PROVISIONS	
	PVC SCHEDULE 40 SLEEVE	2X LINE SIZE OR AS NOTED	
	IRRIGATION CONTROL WIRE	PER TECHNICAL SPECIFICATIONS SECTION 02442	

GENERAL NOTES:

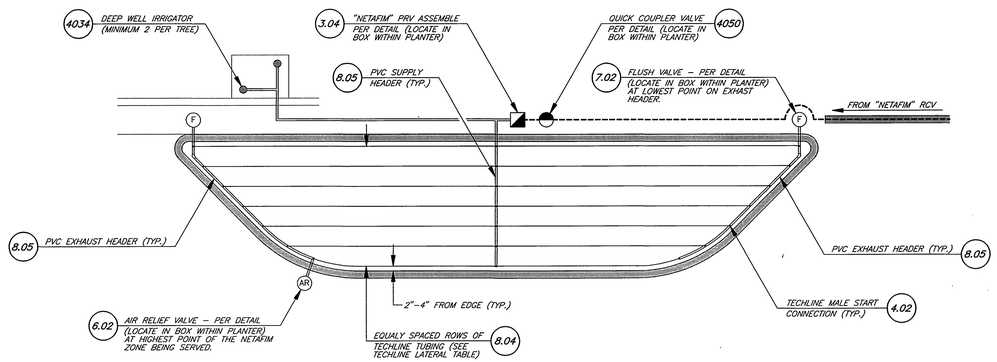
1. ALL VALVE LOCATIONS SHOWN ARE DIAGRAMMATIC. LOCATE ALL VALVES WITHIN THE PLANTER AREA.
2. TECHLINE LATERAL TUBE SPACING IS BASED ON A "NOMINAL" 18" O.C. SPACING (SEE TECHLINE LATERAL TABLE), 0.92 GPH FLOW AND 18" DRIPPER INTERVAL. PROVIDE 4" OF COVER (2" OF MULCH OVER 2" OF SOIL).
3. PROVIDE ONE SPARE CONTROL WIRE FROM THE CONTROLLER TO EACH PLANTER AREA WITH REMOTE CONTROL VALVES.
4. IRRIGATION SYSTEM LAYOUT FOR ALL OTHER MEDIANS AND PARKWAY PLANTERS TO BE SIMILAR. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR EACH PLANTER.
5. ALL TREES TO BE PLANTED AT LOCATIONS SPOTTED, INSPECTED AND ACCEPTED BY PARKS DEPARTMENT INSPECTOR PRIOR TO INSTALLATION OF IRRIGATION TECHLINES. CONTRACTOR TO CONFIRM LOCATIONS OF ALL UNDERGROUND UTILITIES.



F/9 TYPICAL PARKWAY (WITH RCV) IRRIGATION DETAIL

SCALE: 1"=5'

TECHLINE LATERAL TABLE	
PLANTER WIDTH	ROWS OF TECHLINE TUBING
6'	4
8'	6
10'	7



G/9 TYPICAL PARKWAY (W/O RCV) IRRIGATION DETAIL

SCALE: 1"=5'

ENGINEER IN RESPONSIBLE CHARGE

Richard D. McGrath

RICHARD D. McGRATH

R.C.E. No. 31952 expires 12/31/00

DATE 6-26-98

REGISTERED PROFESSIONAL ENGINEER RICHARD D. McGRATH No. 31952 Exp. 12-31-00 CIVIL STATE OF CALIFORNIA

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STREET SERVICES		
SURVEYOR		
TRAFFIC DIVISION		
PARKS DEPARTMENT		

APPROVED BY R. McGrath
PUBLIC WORKS DIRECTOR

DATE 6-26-98

MADISON STREET
STREETSCAPE IMPROVEMENTS
LINCOLN AVE. TO EVANS ST.
IRRIGATION PLANS

HORIZ. SCALE: 1" = 5'

ACCT. NO. 472-528120-440446-90162

R-3454

SHEET 9 OF 12

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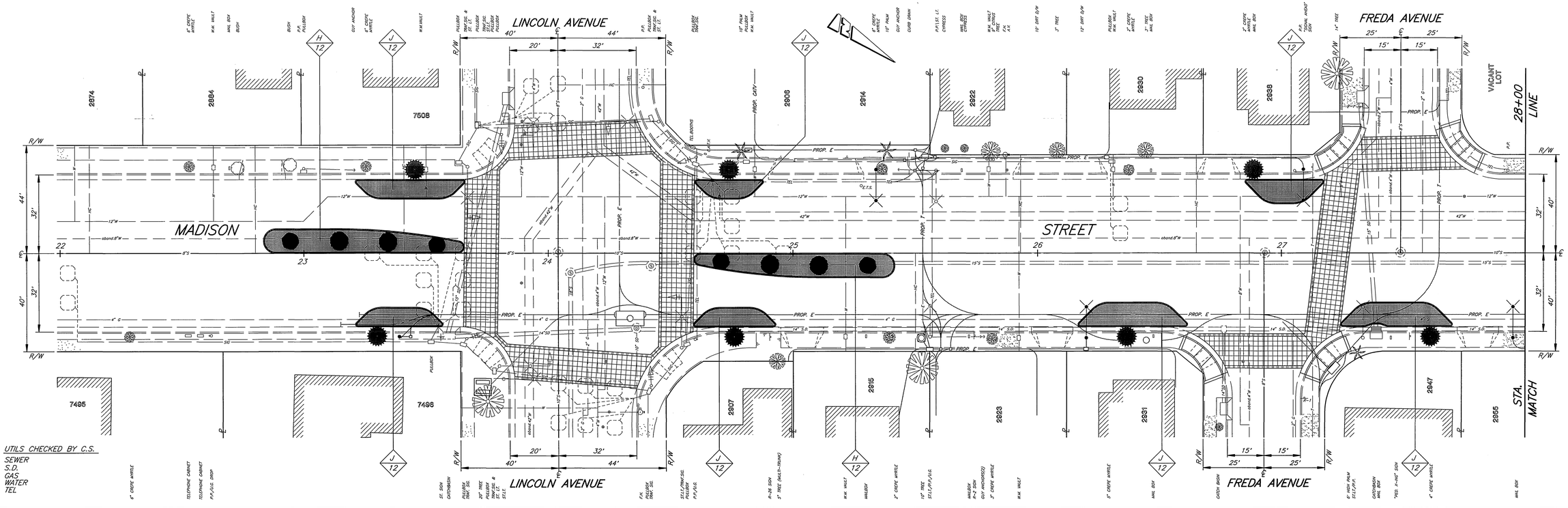

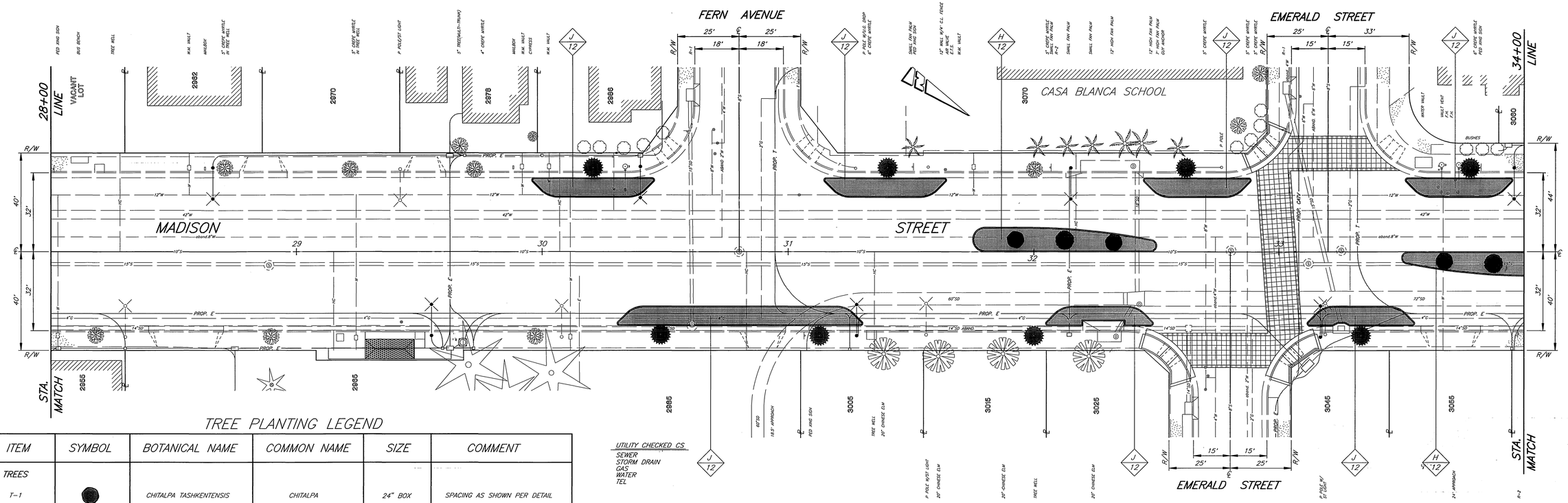

TREE PLANTING LEGEND

ITEM	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	COMMENT
TREES					
T-1		CHITALPA TASHKENTENSIS	CHITALPA	24" BOX	SPACING AS SHOWN PER DETAIL
T-2		MAYTENUS BOARIA	MAYTEN	24" BOX	SPACING AS SHOWN PER DETAIL
T-2		QUERCUS VIRGINIANA	SOUTHERN LIVE OAK	24" BOX	SPACING AS SHOWN PER DETAIL

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MADISON STREET
STREETSCAPE IMPROVEMENTS
LINCOLN AVE. TO EVANS ST.
PLANTING PLANS

HORIZ. SCALE: 1" = 20'

ACCT. NO. 472-528120-440446-90162

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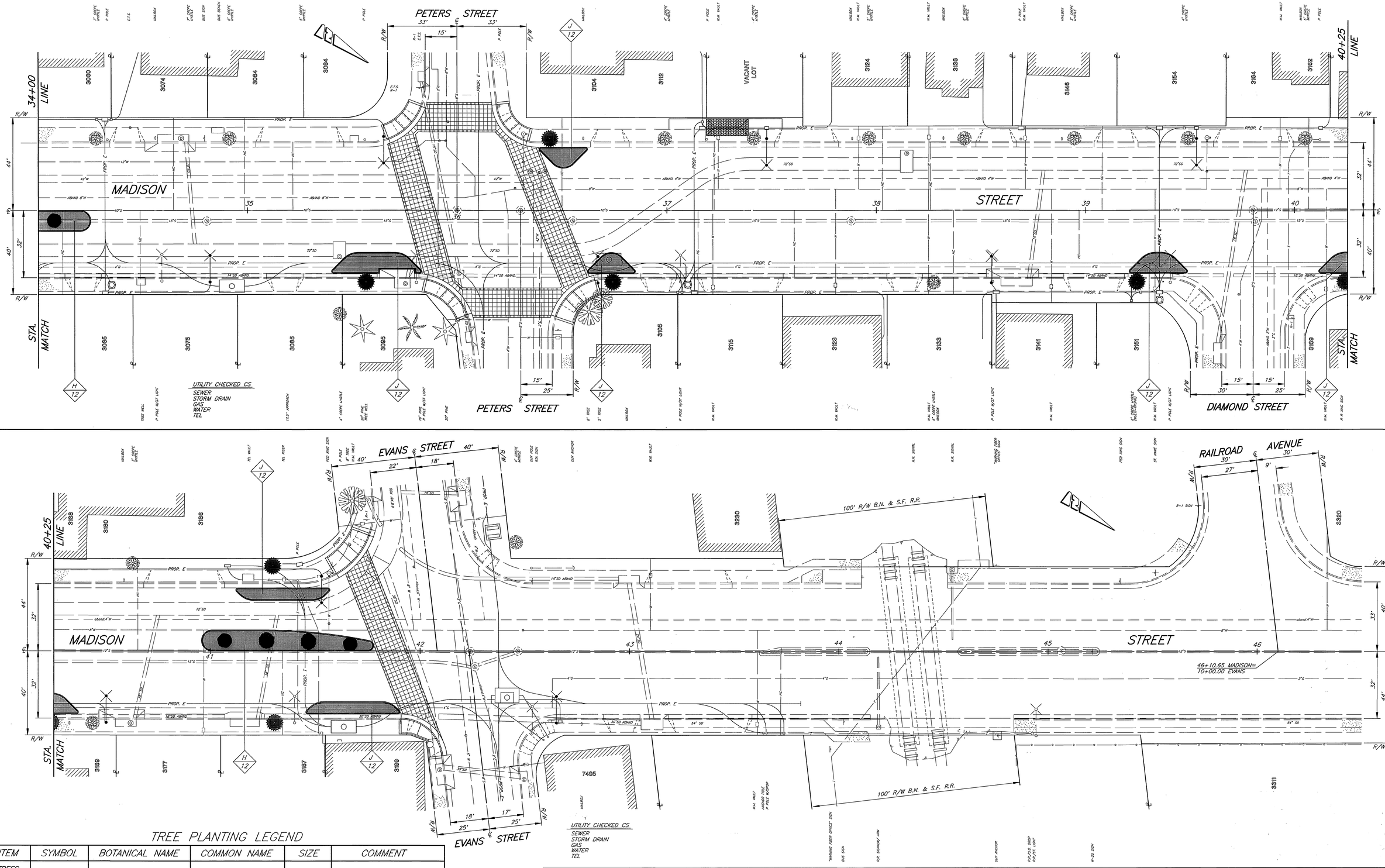

TREE PLANTING LEGEND

ITEM	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	COMMENT
TREES					
T-1		CHITALPA TASHKENTENSIS	CHITALPA	24" BOX	SPACING AS SHOWN PER DETAIL
T-2		MAYTENUS BOARIA	MAYTEN	24" BOX	SPACING AS SHOWN PER DETAIL
T-2		QUERCUS VIRGINIANA	SOUTHERN LIVE OAK	24" BOX	SPACING AS SHOWN PER PLAN

ENGINEER IN RESPONSIBLE CHARGE

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SURVEYOR			PUBLIC WORKS DIRECTOR
TRAFFIC DIVISION			
PARKS DEPARTMENT			DATE 6/26/98

MADISON STREET
STREETSCAPE IMPROVEMENTS
LINCOLN AVE. TO EVANS ST.
PLANTING PLANS

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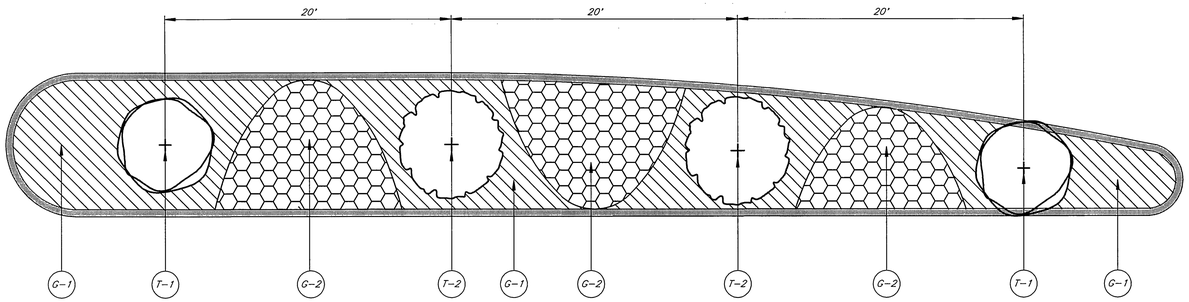
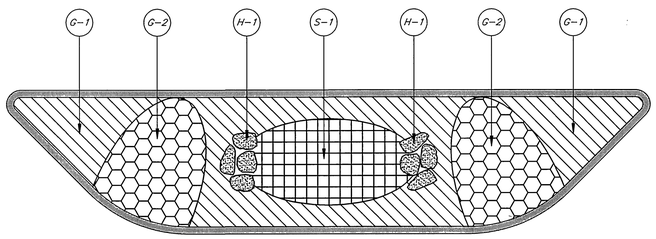


H/12 TYPICAL MEDIAN PLANTING DETAIL

SCALE: 1"=5'



J/12 TYPICAL PARKWAY PLANTING DETAIL

SCALE: 1"=5'

PLANTING NOTES:

1. PLANT DESIGN IS DIAGRAMMATIC AND SHALL NOT TAKE PLACE WHERE UNFORESEEN SITE CONDITIONS PREVENT EXECUTION OF THE DESIGNERS INTENT. WHEN UNEXPECTED SITE CONDITIONS CAUSE UNREASONABLE DEVIATIONS IN THE INTENDED PLANTING SCHEME THE CONTRACTOR SHALL IMMEDIATELY INFORM THE ENGINEER.
2. ALL PLANTING AREAS TO RECIEVE MINIMUM 2" LAYER OF MULCH THROUGH OUT.
3. REPLACEMENT OF DAMAGED OR DESTROYED ITEMS SHALL TAKE PLACE WITHIN 48 HOURS OF NOTIFICATION BY THE CITY'S REPRESENTATIVE, OR SAID REPLACEMENT ITEMS SHALL BE DEDUCTED FROM THE CONTRACTOR'S FINAL BILLING.
4. REPLACEMENT ITEMS SHALL BE EXACT DUPLICATE OF ORIGINAL WORK OR PLANTS, UNLESS OTHERWISE APPROVED BY THE ENGINEER OR CITY'S REPRESENTATIVE.
5. ALL TREES TO BE PLANTED AT LOCATIONS SPOTTED, INSPECTED AND ACCEPTED BY PARKS DEPARTMENT INSPECTOR PRIOR TO INSTALLATION OF IRRIGATION TECHLINES. CONTRACTOR TO CONFIRM LOCATIONS OF ALL UNDERGROUND UTILITIES. ALL TREES TO BE PLANTED WITH 24" DEEP ROOT BARRIERS.

PLANTING LEGEND

ITEM	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	COMMENT
TREES					
T-1		CHITALPA TASHKENTENSIS	CHITALPA	24" BOX	SPACING AS SHOWN PER DETAIL
T-2		MAYTENUS BOARIA	MAYTEN	24" BOX	SPACING AS SHOWN PER DETAIL
SHRUB					
S-1		DIETES BICOLOR	FORTNIGHT LILY	1 GAL.	SPACE @ 18" O.C.
GROUND COVER					
G-1		ROSMARINUS PROSTRATUS	DWARF ROSEMARY	1 GAL.	SPACE @ 12" O.C.
G-2		RATIBIDA COLUMNFERA	MEXICAN HAT	1 GAL.	SPACE @ 12" O.C.
HARDSCAPE					
H-1			BOULDERS	18" DIA.	PLACE AS SHOWN PER DETAIL

ENGINEER IN RESPONSIBLE CHARGE

Richard D. McGrath

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TRAFFIC DIVISION		
PARKS DEPARTMENT		

APPROVED BY R.McGrath PUBLIC WORKS DIRECTOR

DATE 6-26-98

MADISON STREET
STREETSCAPE IMPROVEMENTS
LINCOLN AVE. TO EVANS ST.

PLANTING PLAN

HORIZ. SCALE: 1" = 20'

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