

ADDENDUM NO. 3
10/21/2019

To Drawings dated: 10-1-2019

NEW PORTABLE CLASSROOM BUILDING
Camarillo Academy of Progressive Education

Prepared by: PBK
2751 Park View Court, Suite 251
Ventura, CA 93036

PBK Project No.: 191726

RFI Questions:

1. AD-3.0: RFI Response Document
A) See attached for RFI Response Document.

Construction Drawings:

1. AD-3.1 Enlarged Site Plan
A) See attached for updated Enlarged Site Plan (1/A0.01) and added keynote 32.05 for ramp extension.
2. AD-3.2 Handrail Extension at Manufacturer Ramp – Plan View
A) See added detail #7 to sheet A1.02.
3. AD-3.3 Handrail Extension at Manufacturer Ramp
A) See added detail #8 to sheet A1.02

Record Drawings

4. AD-3.4 Landscape and Irrigation Record Drawings
A) See attached for landscape and irrigation record drawings.

PBK ARCHITECTS

By 
Hal Hart
Principal

END OF ADDENDUM NO. 3

Page 1 of 1



ADDENDUM NO.3 - AD-3.0

RFI RESPONSE DOCUMENT

Owner CAPE Charter School
Project New Portable Classroom Building
Location Camarillo, CA
Date 10-21-19

1. Will the District allow a General Engineering A bid this project?

RESPONSE: Yes, the district allows a General Engineering A to bid the project.

2. Since the value of this project a Bid Bond is required?

RESPONSE: Yes, A bid bond is required.

3. Sheet G0.03 Fire Department hammer head turn around shows a driveway. Is this driveway new and if so what is the material used for the driveway?

RESPONSE: The drawings do not specify a driveway. See Fire Access Legend. This is a designated access lane only. It is meant to outline the path that the approved fire apparatus should take in case of an emergency.

4. If you close off the new portable with chain link fencing how will the fire department gain access?

RESPONSE: This plan was reviewed and approved by a Ventura County Fire Department Inspector. No other gates will be needed.

5. During the site walk it was noticed allot of irrigation valves that will impact the project. Does the District know the lines location? Will the District cap off the lines under the new project?

RESPONSE: Contractor is responsible to cut and cap existing sprinkler lines that are affected by new construction. See attached drawings for approximate irrigation system layout and coordinate with Owner prior to irrigation system modification.

6. Who will be the Soils inspector?

RESPONSE: This project requires a DSA Certified Class 3 inspector.

7. Is there a soils report?

RESPONSE: The Division of the State Architect did not require a soils report for this project. There is no soils report.

8. What is the portable sitting on base or concrete?

RESPONSE: The portable is sitting on compacted soil. The soil compaction requirements are indicated on the portable manufacturer PC approved drawings. See F1.0 for foundation plan and general information.

9. Do you have a detail of the slab below the new portable?

RESPONSE: The portable does not require a slab. The Portable is on a pressure treated wood foundation and is anchored to the compacted soil with hot dipped galvanized pipe. See Foundation details on sheet F1.0 of the PC approved manufacturer drawings.

10. Will the District supply temporary power and water?

RESPONSE: CAPE Charter school leases the property from Pleasant Valley School District. On-site use of Power and water will be allowed and should be coordinated with owner at start of construction.

11. On the alternate for the asphalt replacement by the classroom will the bike lane be painted back in?

RESPONSE: No, the bike lane will not be painted after replacing the asphalt. This will be provided by owner.

12. Electrical sheet E150 note 6 calls out for 2 x 3" & 2 x 4" conduits but on page E200 single line calls out 1 x 3" & 2 x 4". What is the conduit count?

RESPONSE: 2 x 3" & 2 x 4 is correct.

13. Sheet E402 calls for a circuit to go to new water fountain. Is there a District preference or can they allocate a location for this new power?

RESPONSE: Provide power from the existing power panel in the room which also has the Main FACP. Provide a new 20amp 120 vac breaker in this panel.

14. Sheet E405 detail 2 note 1 calls out for 4 x 1 1/2" conduit penetrations through the wall. Sheet S4.0 states no holes are to be closer than 18". With that structural detail that would make the Nema 3R box allow larger than 30". Please clarify installation with a new detail.

RESPONSE: There should only be three penetrations, the box is 30 x 30 inches. The fire alarm and com penetrations should be at the top end of the box and should be the two outside areas and the center area conduit entry into the building can be 18" away from these openings but lower in the box to accommodate the structural requirement.

15. Sheet R0.0 show the ramp not connected even with the ground material. It states the District is responsible for the ramp extension. If this is correct will the ramp extension be part of our work and what type of material are you requiring?

RESPONSE: Please refer to clarification sketch AD-3.1, AD-3.2, AD-3.3.

16. Can you confirm 3000 PSI concrete or higher for this project will there be a Deputy field inspector for the concrete?

RESPONSE: Concrete specifications were issued as part of Addendum #1. Refer to AD-1.6. General notes were added to specify concrete and asphalt.

17. Temporary offices will not be required?

RESPONSE: The successful Contractor shall supply a temporary field office, as needed, for the duration of the Project.

18. How far out should we provide temporary fencing?

RESPONSE: Temporary Fencing shall be installed directly around areas of construction.

19. Does the temporary fencing require screening material?

RESPONSE: Yes, the temporary fencing should have a screening material for privacy and debris.

20. Is there a SWPPP plan required or just best practices?

RESPONSE: There will be no SWPP plan required for this project; only best management practices.

21. To confirm we are going out of the closet IDF cabinet to the new portable for DATA?

RESPONSE: You are going from the MDF to the new IDF, not the closet or nearest one.

22. Does the District have a preferred Fire Alarm vendor?

RESPONSE: Existing fire alarm vendor on campus is FCI and is noted on E100 General Notes in H under Fire Alarm.

23. Does the District have a preferred Intercom vendor?

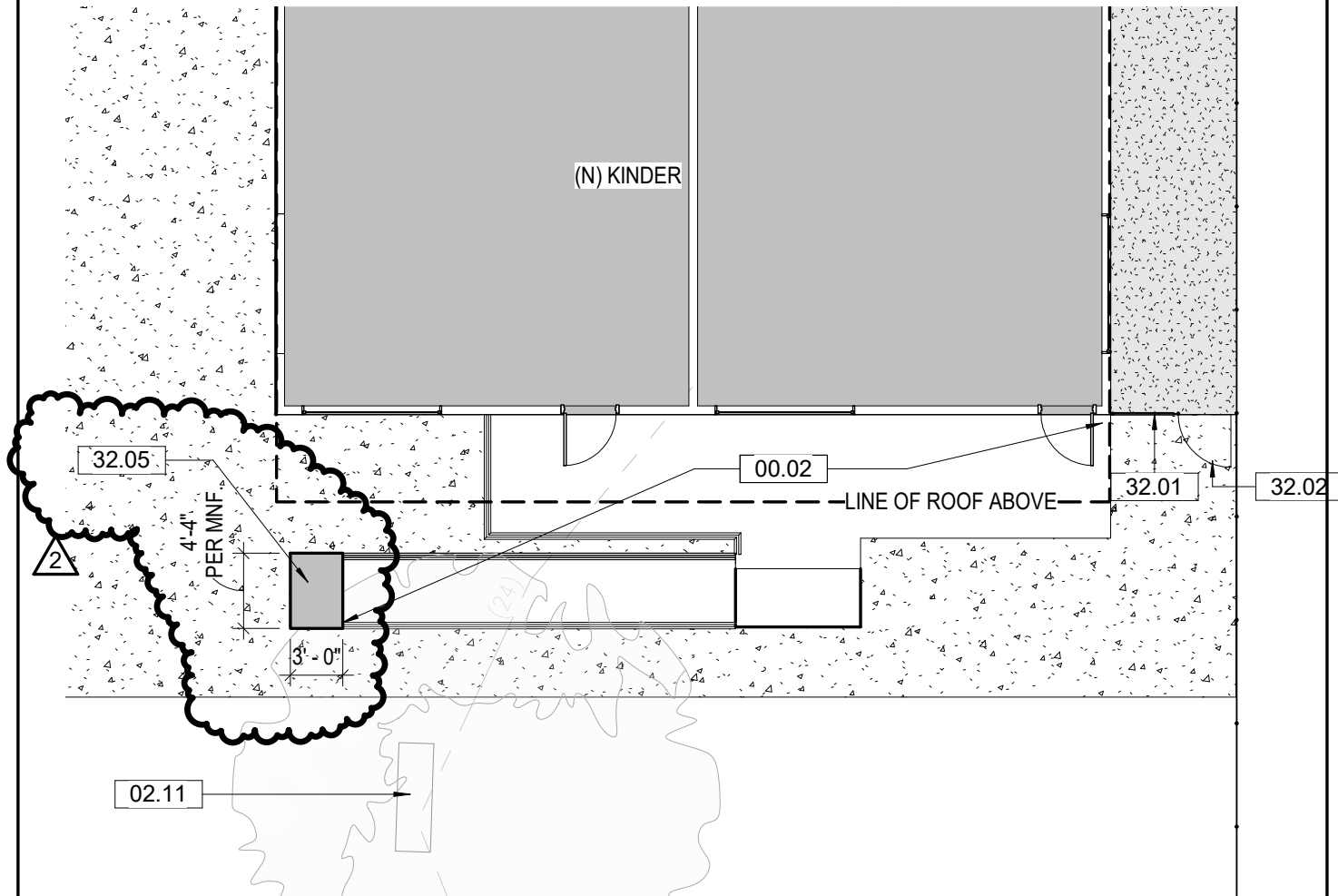
RESPONSE: Rauland clock/PA system is shown on the E100 in the symbol list with the type of campus system presently in use.

24. For the new planters will there be irrigation or plants required?

RESPONSE: No irrigation or plants will be required for the new planters. This will be provided by the Owner.



ADDENDUM NO.3 - AD-3.1,AD-3.2, AD-3.3



Keynote Legend

Key	Note
00.01	(N) PORTABLE BUILDING PROVIDED BY OWNER. REFER TO MANUFACTURER DRAWINGS AND SPECIFICATIONS FOR MORE INFORMATION
00.02	(N) RAMP AND LANDING SYSTEM PROVIDED BY OWNER. REFER TO MANUFACTURER DRAWINGS AND SPECIFICATIONS FOR MORE INFORMATION
02.11	PROTECT IN PLACE (E) BENCH
32.01	(N) CHAINLINK FENCE. REFER TO DETAIL 5 ON SHEET A1.02 FOR MORE INFORMATION AND COORDINATION.
32.02	(N) CHAINLINK FENCE GATE. REFER DETAIL 5 ON A1.02 FOR MORE INFORMATION
32.05	(N) PORTION OF ASPHALT RAMP EXTENSION. REFER TO 7/A1.02 FOR MORE INFORMATION

DRAWING TITLE: **ENLARGED SITE PLAN**

REVISED DRAWING: 1 / A0.01

PBK

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 Ontario, CA 91761
 909-937-9200 P
 909-937-6161 F
 PBK.com

NEW PORTABLE CLASSROOM BUILDING

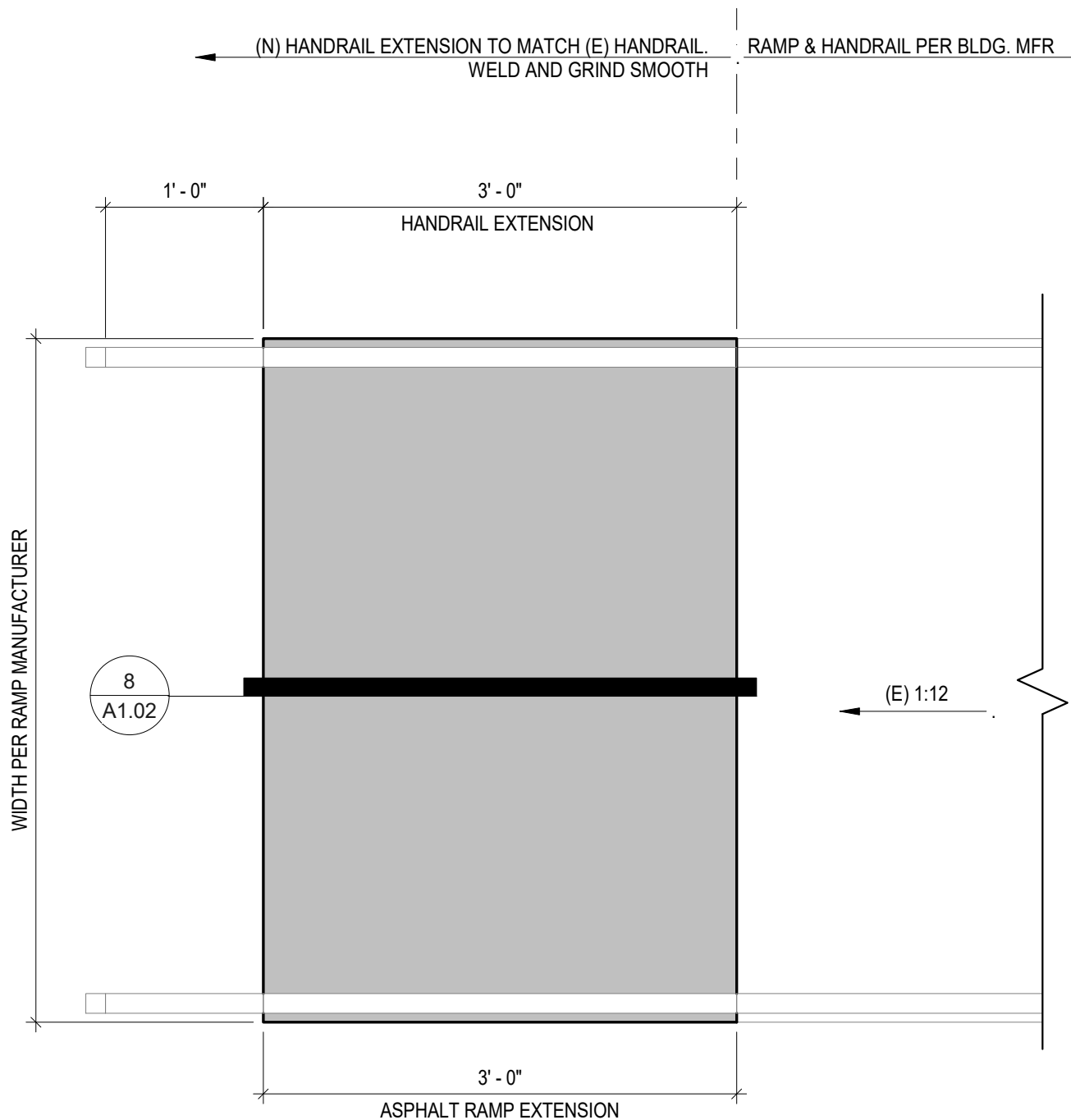
777 Aileen Street
 Camarillo, Ca 93010

PROJECT NO.: 19172

DATE: 10/21/19

SCALE: 1" = 10'-0"

AD-3.1



NEW DETAIL

DRAWING TITLE: HANDRAIL EXTENSION AT MANUFACTURER RAMP PLAN VIEW

7 / A1.02

PBK

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NEW PORTABLE CLASSROOM BUILDING

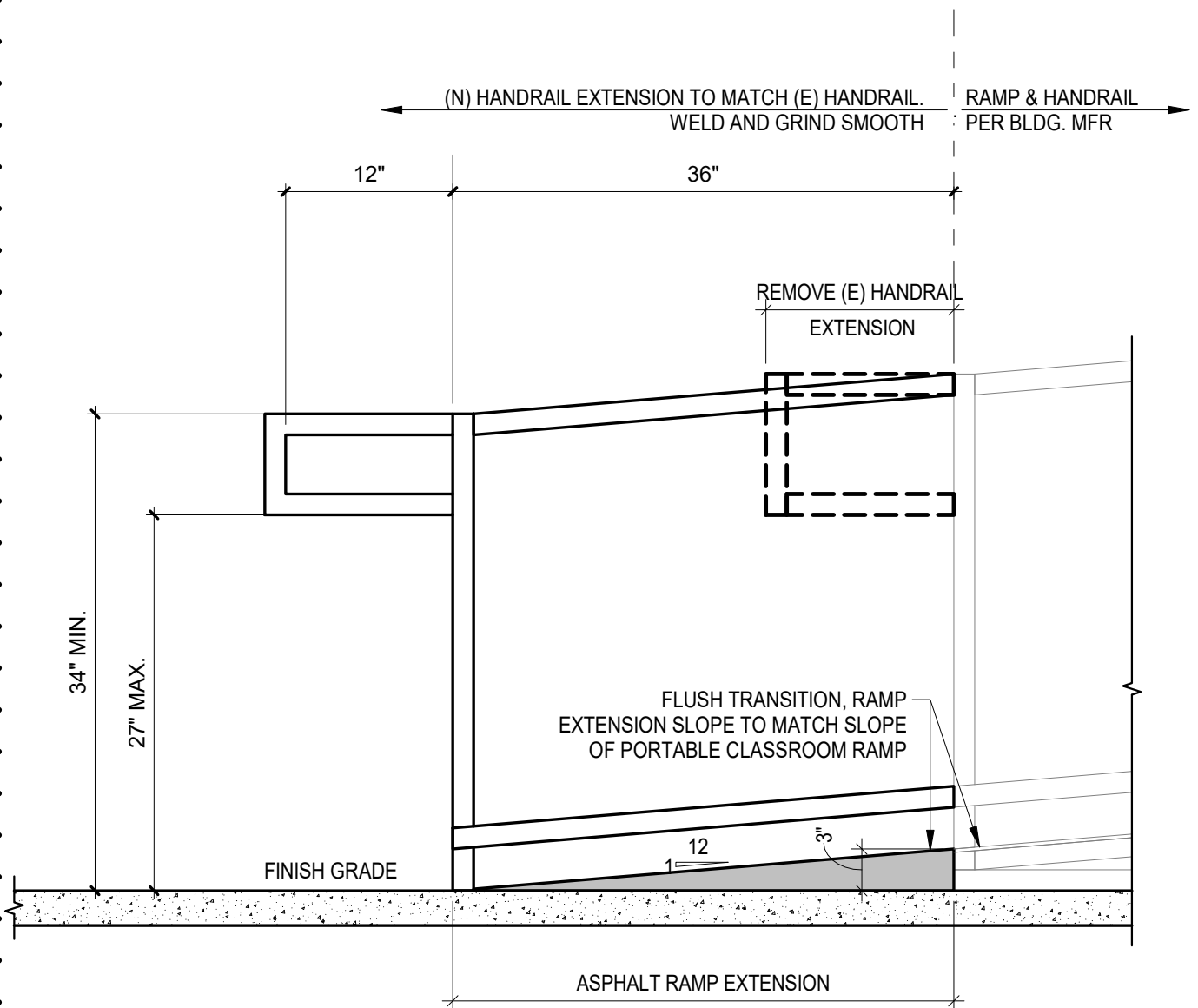
777 Aileen Street
Camarillo, Ca 93010

PROJECT NO.: 19172

DATE: 10/21/19

SCALE: 1" = 1'-0"

AD-3.2



NEW DETAIL

DRAWING TITLE: **HANDRAIL EXTENSION @ MANUFACTURER RAMP**

8 / A1.02

PBK

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NEW PORTABLE CLASSROOM BUILDING

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SCALE: 1" = 1'-0"

AD-3.3



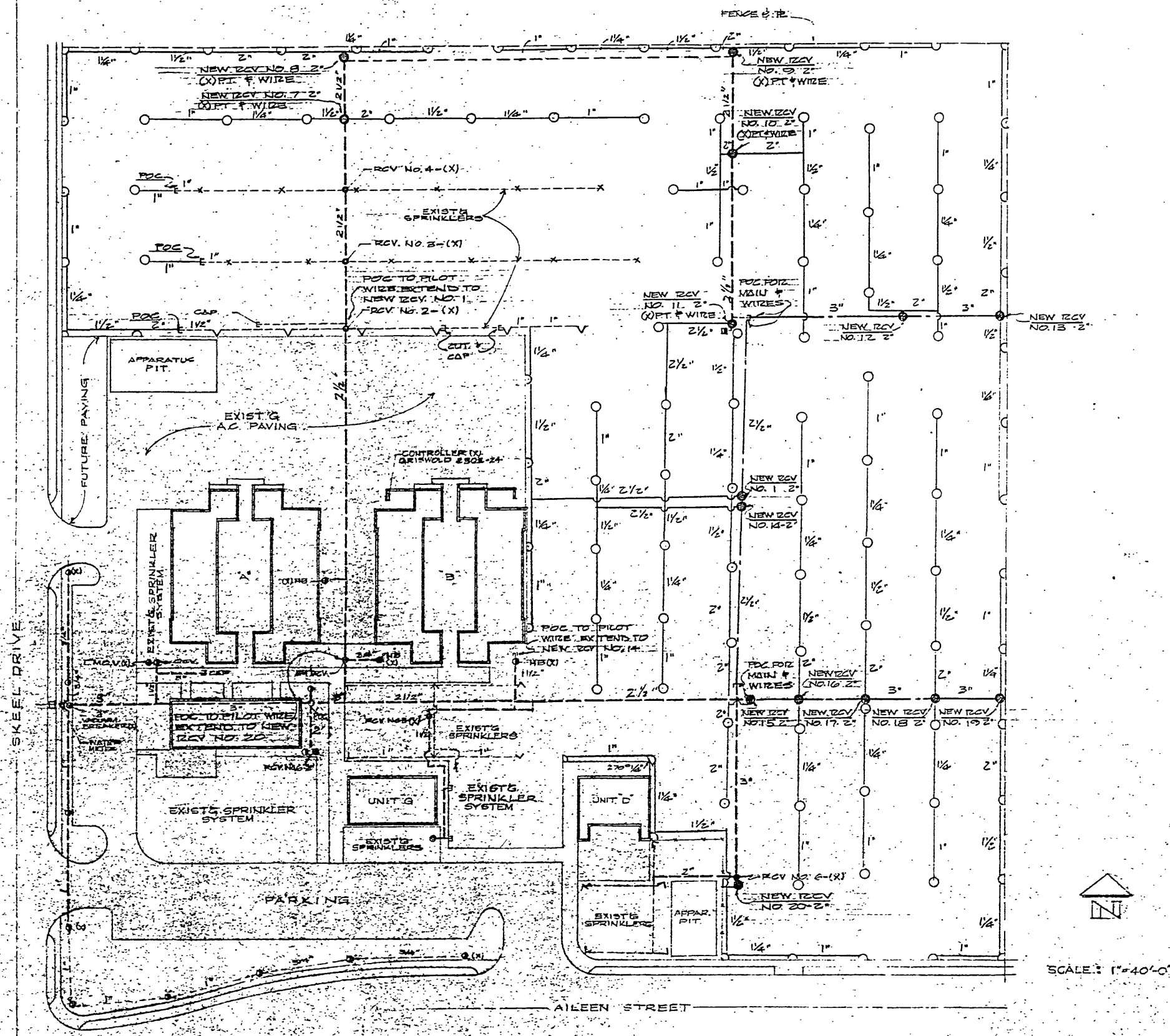
ADDENDUM NO.3 - AD-3.4

LEGEND

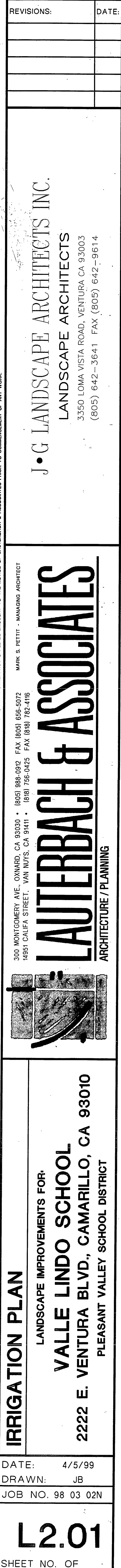
- EXIST'G. SPRINKLER & LATERAL PIPING
- SYMBOL EXISTING
- REMOTE CONTROL VALVE (RCV)
- QUICK COUPLER VALVE (CCV)
- EXIST'G. MAIN
- NEW MAIN JOINS MANHOLE "RINGITE" PVC 4" (24" MIN. DEPTH)
- NEW LATERAL PIPING - PVC CLASS 200 (16" MIN. EARTH COV)
- P.O.C. POINT OF CONNECTION - FOR NEW WORK
- MANUAL CONTROL VALVE (MCV)
- HOSE BIB
- NEW FULL CIRCLE ROTOTZ "AQUA-DIAL" NO. 18 7/8" 2" SEE DETAIL "A"
- POINT 14" 3/32" 17"
- POINT 14" 3/16" 30"

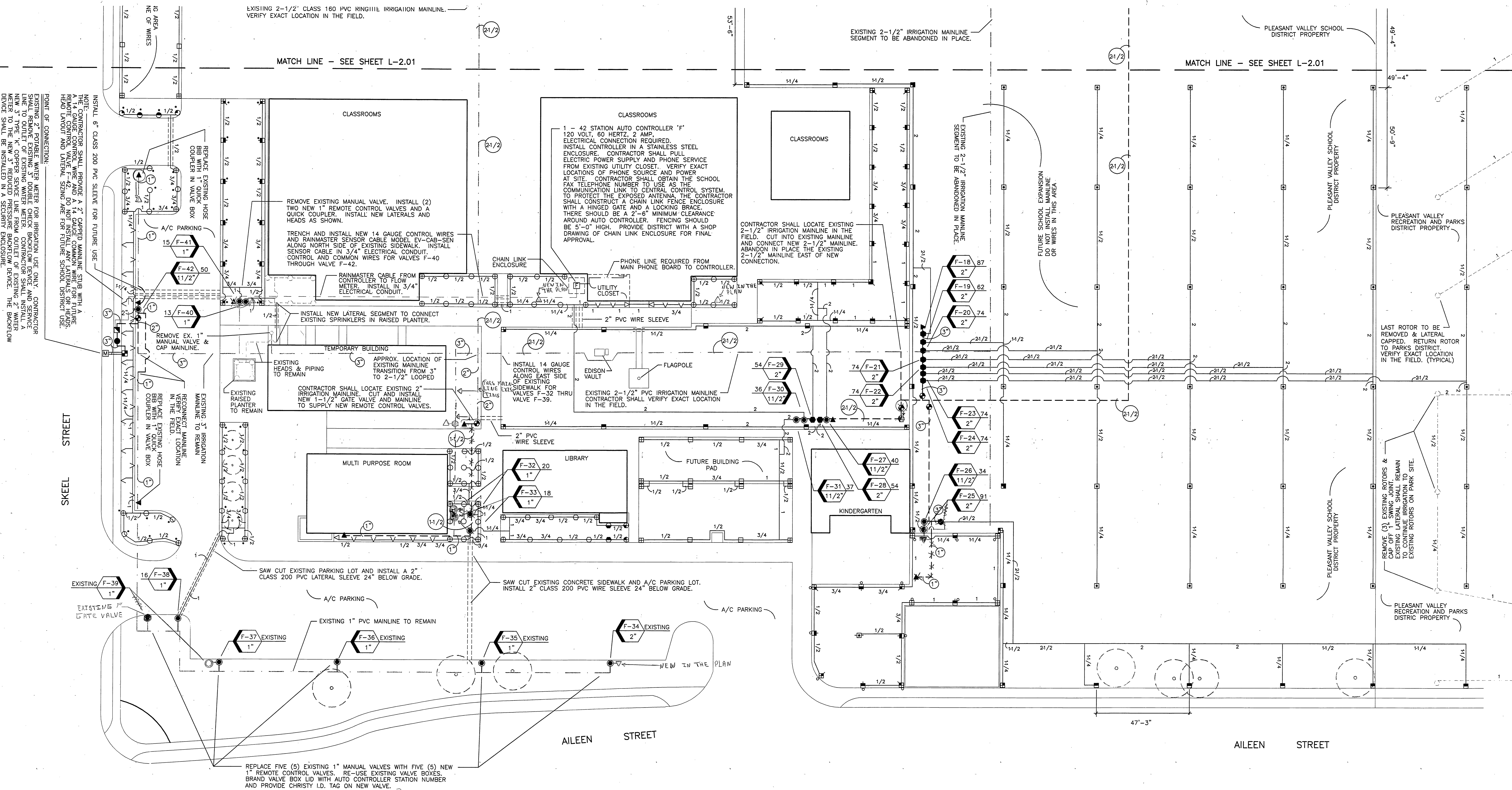
NOTES

- ALL SPRINKLER HEADS SHALL BE RUBBER COVERED UNLESS ADJACENT TO FENCES OR PAVING
- NEW SPRINKLER HEADS SHALL BE MAIN LINE
- ALL BUILDING EXISTING LOCATION OF P.O.C. SHALL BE PROVIDED BY CONTRACT

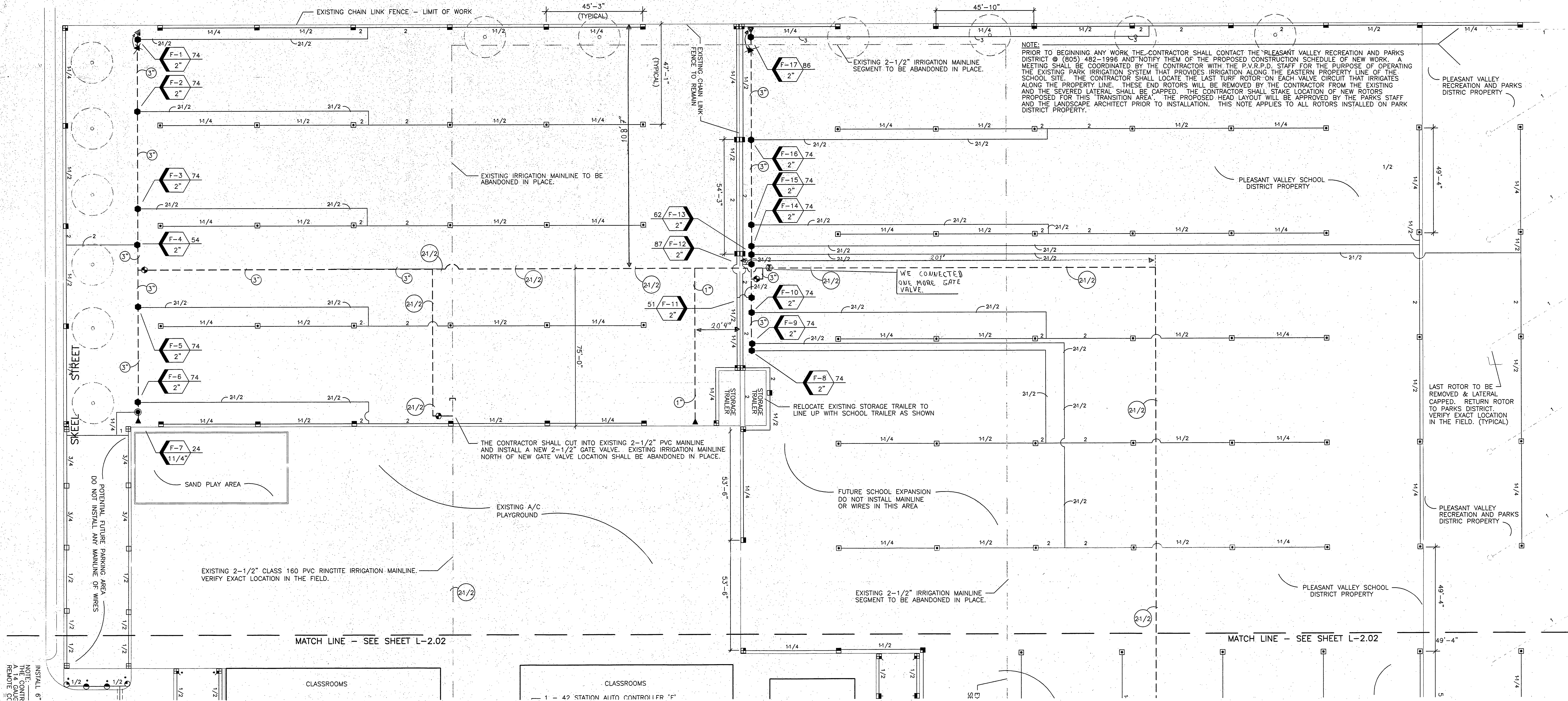


ADDITIONS TO IRRIGATION SYSTEMS
 VALLE LINDO SCHOOL
 BASANT VALLEY SCHOOL DISTRICT
 CAMARILLO, CALIFORNIA
 ROBERT FLICKENSTEIN - LANDSCAPE ARCHITECT
 SANTA PAULA, CALIFORNIA OCT. 1971

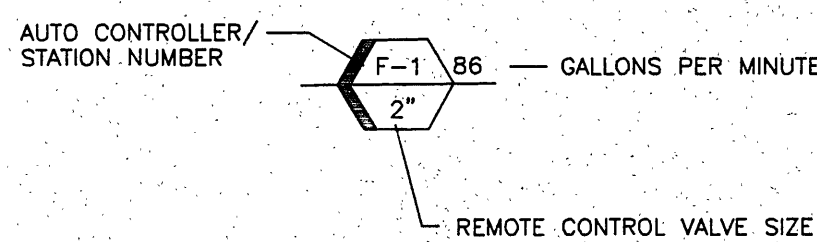




IRRIGATION LEGEND									
SYMBOL	DESCRIPTION	MANUFACTURER	MODEL	DESCRIPTION					
---	EXISTING MAINLINE	UNKNOWN	CLASS 160 PVC - GASKETED						
----	SLEEVING	PACIFIC / P.W. PIPE	CLASS 200						
---	MAINLINE (3" & LARGER)	PACIFIC / P.W. PIPE	GASKETED, IPS, PR200, SDR21						
---	MAINLINE (2 1/2" & SMALLER)	PACIFIC / P.W. PIPE	SCH 40 PVC SOL. WELD						
---	NON PRESSURE LATERAL	PACIFIC / P.W. PIPE	CL 200 PVC SOV. WELD						
[M]	EXISTING WATER METER	UNKNOWN	2" SIZE	POTABLE WATER SUPPLY - FOR IRRIGATION ONLY					
[F]	BACKFLOW DEVICE	FEBCO	825-YD-3"	STAINLESS STEEL PEDESTAL WITH PHONE COMMUNICATION OPTION					
[F]	FLOW METER	RAINMASTER	EVFM-P200 (2")	2" BRASS PRESSURE REGULATOR					
[F]	QUICK COUPLER	BUCKNER	QB44RC-10	1" SIZE, RUBBER COVER, BRASS					
[F]	REMOTE CONTROL VALVE	SUPERIOR	950 SERIES	BRASS VALVE - 200 PSI RATING					
[F]	REMOTE CONTROL VALVE	SUPERIOR	950-DWPRS	PRESSURE REGULATING BRASS VALVE - 200 PSI RATING					
[F]	BRONZE GATE VALVE	NIBCO	T-113 - LINE SIZE	BRONZE-THREADED BOTH ENDS					
[F]	MASTER VALVE	SUPERIOR	3100 SERIES - 3"	NORMALLY OPEN - 200 PSI RATING					
[F]	POP UP TURF ROTOR	HUNTER	I-40-36S-42	GEAR DRIVEN, STAINLESS RISER, CHECK VALVE	60	55	12.3		
[F]	POP UP TURF ROTOR	HUNTER	I-40-ADS-42	GEAR DRIVEN, STAINLESS RISER, CHECK VALVE	60	55		12.3	
[F]	POP UP TURF ROTOR	HUNTER	I-40-ADS-42	GEAR DRIVEN, STAINLESS RISER, CHECK VALVE	60	55			8.5
[F]	POP UP TURF ROTOR	HUNTER	I-40-ADS-40	GEAR DRIVEN, STAINLESS RISER, CHECK VALVE	60	48			
[F]	POP UP TURF ROTOR	HUNTER	PGP-36V-07	GEAR DRIVEN, PLASTIC RISER, CHECK VALVE	50	35	3.4		
[F]	POP UP TURF ROTOR	HUNTER	PGP-ADV-LA-06-04	GEAR DRIVEN, PLASTIC RISER, CHECK VALVE	50	33		2.8	1.8
[F]	POP UP TURF ROTOR	HUNTER	PGP-ADV-LA-06	GEAR DRIVEN, PLASTIC RISER, CHECK VALVE	50	33			2.8
[F]	POP UP TURF ROTOR	HUNTER	PGM-04-AV-2.0	GEAR DRIVEN, PLASTIC RISER, CHECK VALVE	50	24	2.3		
[F]	POP UP TURF ROTOR	HUNTER	PGM-04-AV-2.0 & 1.0	GEAR DRIVEN, PLASTIC RISER, CHECK VALVE	50	21		2.3	1.1
[F]	POP UP TURF ROTOR	HUNTER	PGM-04-AV-1.5 & .75	GEAR DRIVEN, PLASTIC RISER, CHECK VALVE	50	24		1.7	.85
[F]	POP UP TURF ROTOR	HUNTER	PGM-04-AV-2.0 & 1.5	GEAR DRIVEN, PLASTIC RISER, CHECK VALVE	50	27		2.3	1.7
[F]	POP UP TURF SPRAY	RAIN BIRD	1804SAM-15-U-F,H,T,O	4" PLASTIC POP UP w/CHECK VALVE	30	15	3.7	1.85	1.23 .93
[F]	POP UP TURF SPRAY	RAIN BIRD	1804SAM-12-U-F,H,T,O	4" PLASTIC POP UP w/CHECK VALVE	30	12	2.6	1.30	.87 .65
[F]	POP UP TURF SPRAY	RAIN BIRD	1804SAM-10-U-F,H,T,O	4" PLASTIC POP UP w/CHECK VALVE	30	10	1.57	.79	.52 .39
[F]	POP UP SHRUB SPRAY	RAIN BIRD	1806SAM-10-U-F,H,T,O	6" PLASTIC POP UP w/CHECK VALVE	30	10	1.57	.79	.52 .39
[F]	POP UP SHRUB SPRAY	RAIN BIRD	1806SAM-8-U-F,H,T,O	6" PLASTIC POP UP w/CHECK VALVE	30	8	1.05	.52	.35 .26



REMOTE CONTROL VALVE KEY



NOTES:

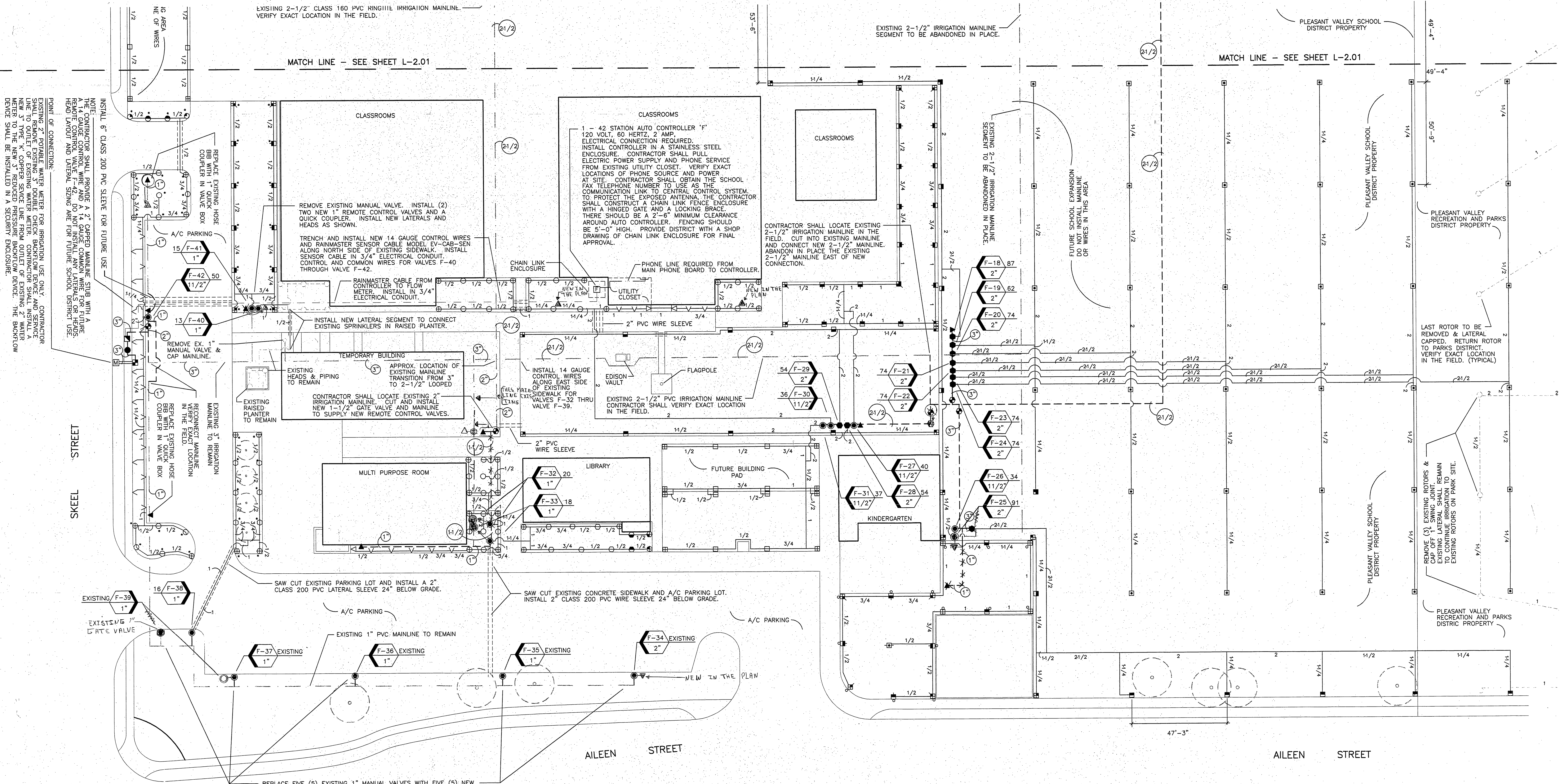
- CONTRACTOR SHALL SLEEVE ALL PVC IRRIGATION PIPES AND WIRES INSTALLED UNDER PAVING. SEE SPECIFICATIONS.
- IRRIGATION SYSTEM IS SHOWN DIAGRAMATICALLY. INSTALL ALL IRRIGATION EQUIPMENT WITHIN LANDSCAPE PLANTERS WHENEVER POSSIBLE.
- CONTRACTOR SHALL PURCHASE AND INSTALL A RAINMASTER PERMANENTLY MOUNTED RECEIVER KIT MODEL "PMR-KIT". THE RECEIVER SHALL BE INSTALLED IN THE CONTROLLER ENCLOSURE PER MANUFACTURER'S RECOMMENDATIONS.
- THE CONTRACTOR SHALL PROVIDE (1) ONE RAINMASTER REMOTE CONTROL SYSTEM MODEL "PRO-MAX-UA". THE REMOTE CONTROL SYSTEM SHALL BE DELIVERED TO THE PLEASANT VALLEY SCHOOL DISTRICT REPRESENTATIVE PRIOR TO BEGINNING THE MAINTENANCE PERIOD.
- THE CONTRACTOR SHALL INSTALL A RAINMASTER FAX TELEPHONE SWITCH AT THE MAIN PHONE PANEL AS PER MANUFACTURER'S RECOMMENDATIONS. THE RAINMASTER MODEL NUMBER FOR THIS PART IS EV-FAX-SWITCH.
- TELEPHONE WIRE THAT WILL BE INSTALLED OUTSIDE OF BUILDING SHALL BE PULLED THROUGH A 3/4" SCH. 40 PVC ELECTRICAL CONDUIT TO IRRIGATION CONTROLLER SOURCE. CONDUITS THAT NEED TO BE BURIED SHALL BE INSTALLED 18" BELOW GRADE.

IRRIGATION CALCULATIONS

CALCULATIONS - VALVE F-1 86 GPM	
AVAILABLE WATER PRES.	110.0 PSI
LOSS @ METER	6.2 PSI
LOSS METER TO BF	3.8 PSI
LOSS @ MASTER VALVE/FLOW METER	3.5 PSI
LOSS @ BF	12.0 PSI
LOSS @ RCV	5.9 PSI
LOSS @ RCV	2.6 PSI
LOSS RCV TO LAST HEAD	2.7 PSI
LOSS - ELEVATION CHANGE	2.0 PSI
TOTAL FRICTION LOSS	38.7 PSI
OPERATING PSI	71.3 PSI

IRRIGATION LEGEND

SYMBOL	DESCRIPTION	MANUFACTURER	MODEL	DESCRIPTION
---	EXISTING MAINLINE	UNKNOWN	CLASS 160 PVC - GASKETED	
----	SLEEVING	PACIFIC / P.W. PIPE	CLASS 200	
----	MAINLINE (3" & LARGER)	PACIFIC / P.W. PIPE	GASKETED, IPS, PR200, SDR21	
----	MAINLINE (2 1/2" & SMALLER)	PACIFIC / P.W. PIPE	SCH 40 PVC SOL. WELD	
----	NON PRESSURE LATERAL	PACIFIC / P.W. PIPE	CL. 200 PVC SOV. WELD	
[M]	EXISTING WATER METER	UNKNOWN	2" SIZE	POTABLE WATER SUPPLY - FOR IRRIGATION ONLY
[F]	AUTO CONTROLLER	RAINMASTER	DX42-PS-03-PH	STAINLESS STEEL PEDESTAL - WITH PHONE COMMUNICATION OPTION
[B]	BACKFLOW DEVICE	FEBCO	825-YD-3"	3" BRASS REDUCED PRES. BACKFLOW
[N]	FLOW METER	RAINMASTER	EVM-P200 (2")	2" BRASS PRESSURE REGULATOR
[Q]	QUICK COUPLER	BUCKNER	QD4RC-10	1" SIZE, RUBBER COVER, BRASS
[R]	REMOTE CONTROL VALVE	SUPERIOR	950 SERIES	BRASS VALVE - 200 PSI RATING
[S]	REMOTE CONTROL VALVE	SUPERIOR	950-DWPRS	PRESSURE REGULATING BRASS VALVE - 200 PSI RATING
[T]	BRONZE GATE VALVE	NIBCO	T-113 - LINE SIZE	BRONZE-THREADED BOTH ENDS
[U]	MASTER VALVE	SUPERIOR	3100 SERIES - 3"	NORMALLY OPEN - 200 PSI RATING
[V]	POP UP TURF ROTOR	HUNTER	I-40-365-42	GEAR DRIVEN, STAINLESS RISER, CHECK VALVE
[W]	POP UP TURF ROTOR	HUNTER	I-40-ADS-42	GEAR DRIVEN, STAINLESS RISER, CHECK VALVE
[X]	POP UP TURF ROTOR	HUNTER	I-40-ADS-42	GEAR DRIVEN, STAINLESS RISER, CHECK VALVE
[Y]	POP UP TURF ROTOR	HUNTER	I-40-ADS-40	GEAR DRIVEN, STAINLESS RISER, CHECK VALVE
[Z]	POP UP TURF ROTOR	HUNTER	PGP-36V-07	GEAR DRIVEN, PLASTIC RISER, CHECK VALVE
[AA]	POP UP TURF ROTOR	HUNTER	PGP-ADV-LA-06,-04	GEAR DRIVEN, PLASTIC RISER, CHECK VALVE
[AB]	POP UP TURF ROTOR	HUNTER	PGP-ADV-LA-06	GEAR DRIVEN, PLASTIC RISER, CHECK VALVE
[AC]	POP UP TURF ROTOR	HUNTER	PGM-04-AV-2.0	GEAR DRIVEN, PLASTIC RISER, CHECK VALVE
[AD]	POP UP TURF ROTOR	HUNTER	PGM-04-AV-2.0, & 1.0	GEAR DRIVEN, PLASTIC RISER, CHECK VALVE
[AE]	POP UP TURF ROTOR	HUNTER	PGM-04-AV-1.5, & .75	GEAR DRIVEN, PLASTIC RISER, CHECK VALVE
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[AG]	POP UP TURF SPRAY	RAIN BIRD	1804SAM-15"-U-F,H,T,Q	4" PLASTIC POP UP w/CHECK VALVE
[AH]	POP UP TURF SPRAY	RAIN BIRD	1804SAM-12"-U-F,H,T,Q	4" PLASTIC POP UP w/CHECK VALVE
[AI]	POP UP TURF SPRAY	RAIN BIRD	1804SAM-10"-F,H,T,Q	4" PLASTIC POP UP w/CHECK VALVE
[AJ]	POP UP TURF SPRAY	RAIN BIRD	1806SAM-10"-F,H,T,Q	6" PLASTIC POP UP w/CHECK VALVE
[AK]	POP UP SHRUB SPRAY	RAIN BIRD	1806SAM-8"-F,H,T,Q	6" PLASTIC POP UP w/CHECK VALVE
[AL]	POP UP SHRUB SPRAY	RAIN BIRD	1806SAM-8"-F,H,T,Q	6" PLASTIC POP UP w/CHECK VALVE



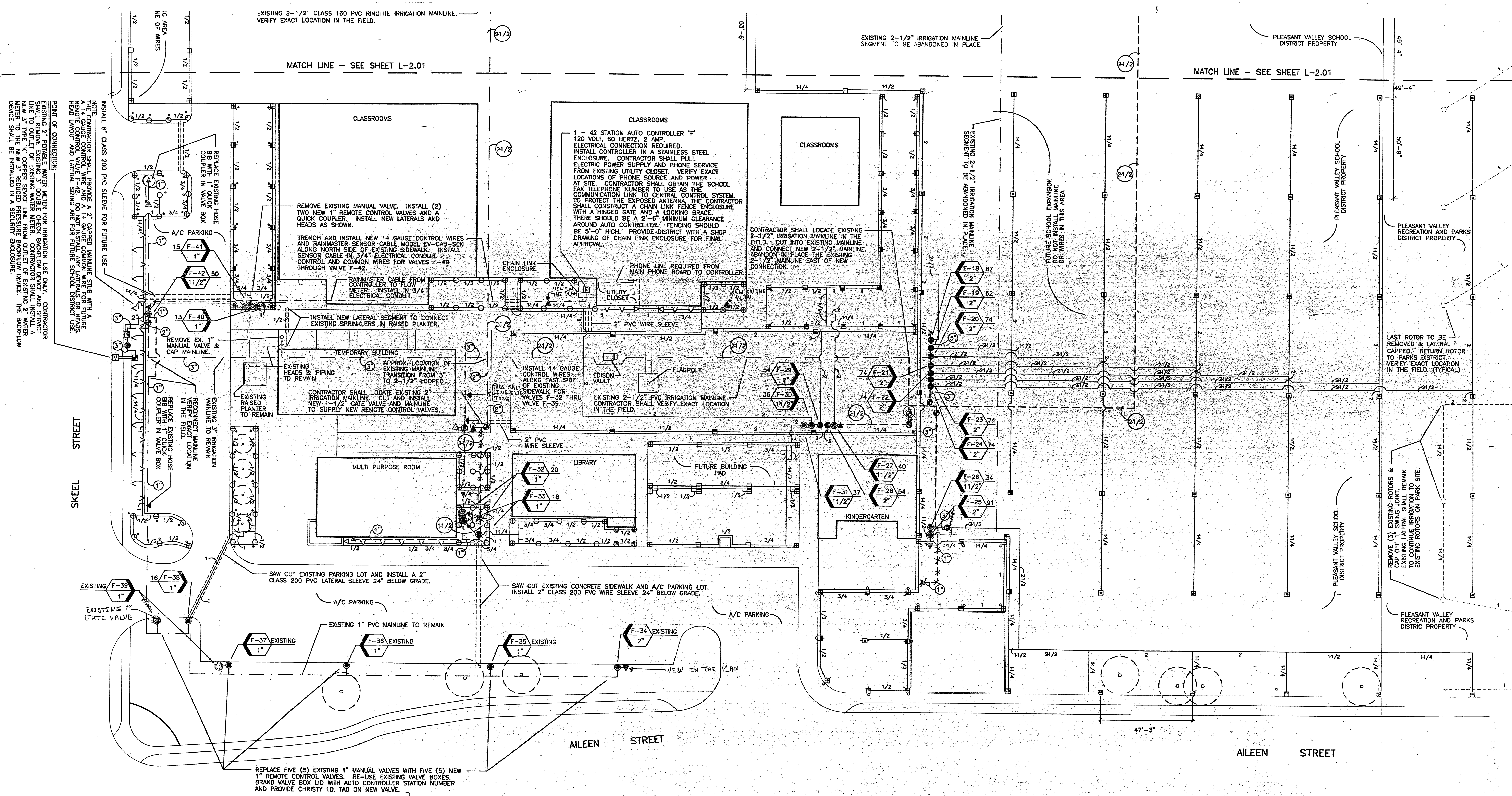
POINT OF CONNECTION:
EXISTING 2" PORTABLE WATER METER FOR IRRIGATION USE ONLY. CONTRACTOR SHALL REMOVE EXISTING 3" DOUBLE CHECK BACKFLOW DEVICE AND SERVICE NEW 3" TYPE 'K' COPPER SERVICE LINE FROM ORIGIN OF EXISTING 2" WATER METER TO THE NEW 3" REDUCED PRESSURE BACKFLOW DEVICE. THE BACKFLOW DEVICE SHALL BE INSTALLED IN A SECURITY ENCLOSURE.

REPLACE EXISTING 1" MANUAL VALVE WITH 1" REMOTE CONTROL VALVE. RE-USE EXISTING VALVE BOXES. BRAND VALVE BOX LID WITH AUTO CONTROLLER STATION NUMBER AND PROVIDE CHRISTY I.D. TAG ON NEW VALVE.

REPLACE FIVE (5) EXISTING 1" MANUAL VALVES WITH FIVE (5) NEW 1" REMOTE CONTROL VALVES. RE-USE EXISTING VALVE BOXES. BRAND VALVE BOX LID WITH AUTO CONTROLLER STATION NUMBER AND PROVIDE CHRISTY I.D. TAG ON NEW VALVE.

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[R]	POP UP TURF ROTOR	HUNTER	I-40-ADS-42	GEAR DRIVEN, STAINLESS RISER, CHECK VALVE	60	55	12.3		
[R]	POP UP TURF ROTOR	HUNTER	I-40-ADS-42	GEAR DRIVEN, STAINLESS RISER, CHECK VALVE	60	55	12.3		
[R]	POP UP TURF ROTOR	HUNTER	I-40-ADS-40	GEAR DRIVEN, STAINLESS RISER, CHECK VALVE	60	48		8.5	
[R]	POP UP TURF ROTOR	HUNTER	PGP-36V-07	GEAR DRIVEN, PLASTIC RISER, CHECK VALVE	50	35	3.4		
[R]	POP UP TURF ROTOR	HUNTER	PGP-ADV-LA-06-04	GEAR DRIVEN, PLASTIC RISER, CHECK VALVE	50	33		2.8	1.8
[R]	POP UP TURF ROTOR	HUNTER	PGP-ADV-LA-06	GEAR DRIVEN, PLASTIC RISER, CHECK VALVE	50	33			2.8
[R]	POP UP TURF ROTOR	HUNTER	PGM-04-AV-2.0	GEAR DRIVEN, PLASTIC RISER, CHECK VALVE	50	24	2.3		
[R]	POP UP TURF ROTOR	HUNTER	PGM-04-AV-2.0, & 1.0	GEAR DRIVEN, PLASTIC RISER, CHECK VALVE	50	21		2.3	1.1
[R]	POP UP TURF ROTOR	HUNTER	PGM-04-AV-1.5, & .75	GEAR DRIVEN, PLASTIC RISER, CHECK VALVE	50	24		1.7	.85
[R]	POP UP TURF ROTOR	HUNTER	PGM-04-AV-2.0, & 1.5	GEAR DRIVEN, PLASTIC RISER, CHECK VALVE	50	27		2.3	1.7
[R]	POP UP TURF ROTOR	HUNTER	1804SAM-15-U-F.H.T.O	4" PLASTIC POP UP w/CHECK VALVE	30	15	3.7	1.85	1.23
[R]	POP UP TURF ROTOR	HUNTER	1804SAM-12-U-F.H.T.O	4" PLASTIC POP UP w/CHECK VALVE	30	12	2.6	1.30	.87
[R]	POP UP TURF ROTOR	HUNTER	1804SAM-10-U-F.H.T.O	4" PLASTIC POP UP w/CHECK VALVE	30	10	1.57	.79	.52
[R]	POP UP TURF ROTOR	HUNTER	1806SAM-10-U-F.H.T.O	6" PLASTIC POP UP w/CHECK VALVE	30	10	1.57	.79	.52
[R]	POP UP TURF ROTOR	HUNTER	1806SAM-8-U-F.H.T.O	6" PLASTIC POP UP w/CHECK VALVE	30	8	1.05	.52	.35



IRRIGATION LEGEND									
SYMBOL	DESCRIPTION	MANUFACTURER	MODEL	DESCRIPTION					
---	EXISTING MAINLINE	UNKNOWN	CLASS 160 PVC - GASKETED						
---	SLEEVING	PACIFIC / P.W. PIPE	CLASS 200						
---	MAINLINE (3" & LARGER)	PACIFIC / P.W. PIPE	GASKETED, IPS, PR200, SDR21						
---	MAINLINE (2 1/2" & SMALLER)	PACIFIC / P.W. PIPE	SCH. 40 PVC SOL. WELD						
---	NON PRESSURE LATERAL	PACIFIC / P.W. PIPE	CL. 200 PVC SOV. WELD						
[M]	EXISTING WATER METER	UNKNOWN	2" SIZE	POTABLE WATER SUPPLY - FOR IRRIGATION ONLY					
[F]	AUTO CONTROLLER	RAINMASTER	DX42-PS-03-PH	STAINLESS STEEL PEDESTAL - WITH PHONE COMMUNICATION OPTION					
[B]	BACKFLOW DEVICE	FEBCO	825-10-3"	3" BRASS REDUCED PRES. BACKFLOW					
[F]	FLOW METER	RAINMASTER	EVM-P200 (2")	2" BRASS PRESSURE REGULATOR					
[C]	QUICK COUPLER	BUCKNER	QB4RC-10	1" SIZE, RUBBER COVER, BRASS					
[R]	REMOTE CONTROL VALVE	SUPERIOR	950 SERIES	BRASS VALVE - 200 PSI. RATING					
[R]	REMOTE CONTROL VALVE	SUPERIOR	950-DWPRS	PRESSURE REGULATING BRASS VALVE - 200 PSI RATING					
[R]	BRONZE GATE VALVE	NIBCO	T-113 - LINE SIZE	BRONZE-THREADED BOTH ENDS					
[R]	MASTER VALVE	SUPERIOR	3100 SERIES - 3"	NORMALLY OPEN - 200 PSI RATING					
[R]	POP UP TURF ROTOR	HUNTER	I-40-36S-42	GEAR DRIVEN, STAINLESS RISER, CHECK VALVE	60	55	12.3		
[R]	POP UP TURF ROTOR	HUNTER	I-40-ADS-42	GEAR DRIVEN, STAINLESS RISER, CHECK VALVE	60	55	12.3		
[R]	POP UP TURF ROTOR	HUNTER	I-40-ADS-42	GEAR DRIVEN, STAINLESS RISER, CHECK VALVE	60	55	12.3		
[R]	POP UP TURF ROTOR	HUNTER	I-40-ADS-40	GEAR DRIVEN, STAINLESS RISER, CHECK VALVE	60	48		8.5	
[R]	POP UP TURF ROTOR	HUNTER	PGP-36V-07	GEAR DRIVEN, PLASTIC RISER, CHECK VALVE	50	35	3.4		
[R]	POP UP TURF ROTOR	HUNTER	PGP-ADV-LA-05-.04	GEAR DRIVEN, PLASTIC RISER, CHECK VALVE	50	33		2.8	1.8
[R]	POP UP TURF ROTOR	HUNTER	PGP-ADV-LA-06	GEAR DRIVEN, PLASTIC RISER, CHECK VALVE	50	33			2.8
[R]	POP UP TURF ROTOR	HUNTER	PGM-04-AV-2.0	GEAR DRIVEN, PLASTIC RISER, CHECK VALVE	50	24	2.3		
[R]	POP UP TURF ROTOR	HUNTER	PGM-04-AV-2.0, & 1.0	GEAR DRIVEN, PLASTIC RISER, CHECK VALVE	50	21		2.3	1.1
[R]	POP UP TURF ROTOR	HUNTER	PGM-04-AV-1.5, & .75	GEAR DRIVEN, PLASTIC RISER, CHECK VALVE	50	24		1.7	.85
[R]	POP UP TURF ROTOR	HUNTER	PGM-04-AV-2.0, & .75	GEAR DRIVEN, PLASTIC RISER, CHECK VALVE	50	27		2.3	1.7
[R]	POP UP TURF SPRAY	RAIN BIRD	1804SAM-15'-U-F.H.T.O	4" PLASTIC POP UP w/CHECK VALVE	30	15	3.7	1.85	1.23 .93
[R]	POP UP TURF SPRAY	RAIN BIRD	1804SAM-12'-U-F.H.T.O	4" PLASTIC POP UP w/CHECK VALVE	30	12	2.6	1.30	.87 .65
[R]	POP UP TURF SPRAY	RAIN BIRD	1804SAM-10'-U-F.H.T.O	4" PLASTIC POP UP w/CHECK VALVE	30	10	1.57	.79	.52 .39
[R]	POP UP TURF SPRAY	RAIN BIRD	1806SAM-10'-U-F.H.T.O	6" PLASTIC POP UP w/CHECK VALVE	30	10	1.57	.79	.52 .39
[R]	POP UP TURF SPRAY	RAIN BIRD	1806SAM-8'-U-F.H.T.O	6" PLASTIC POP UP w/CHECK VALVE	30	8	1.05	.52	.35 .26

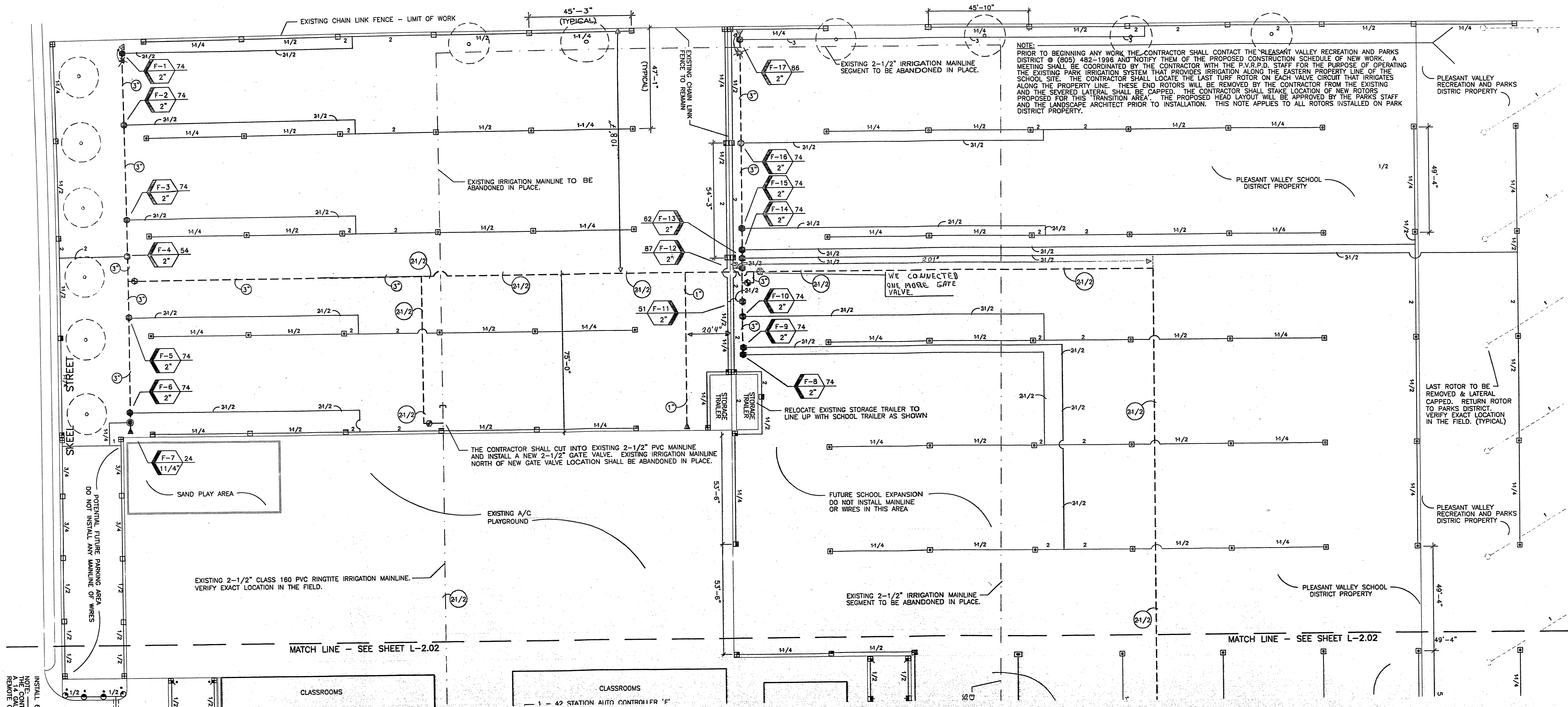
REVISIONS: DATE:

JOG LANDSCAPE ARCHITECTS INC.
LANDSCAPE ARCHITECTS
3350 LOMA VISTA ROAD, VENTURA CA 93003
(805) 642-3641 FAX (805) 642-9614

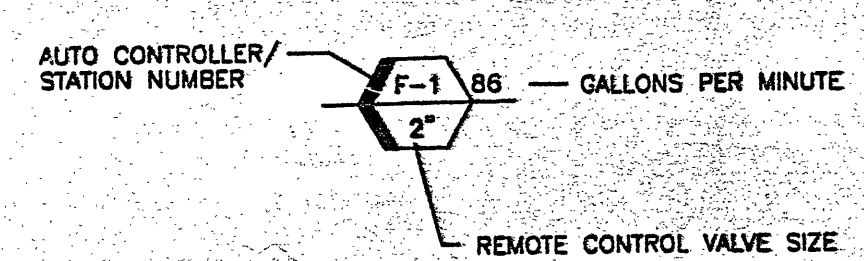
LAUTERBACH & ASSOCIATES
ARCHITECTURE / PLANNING
300 MONTGOMERY AVE. OAKLAND, CA 94612
1881 CALIF. STREET, SAN JOSE, CA 95131
MARK S. PETTIT, MANAGING ARCHITECT
408 988-0032 FAX 988-0032
1881 756-0425 FAX 1881 752-4195

IRRIGATION PLAN
LANDSCAPE IMPROVEMENTS FOR:
VALLE LINDO SCHOOL
2222 E. VENTURA BLVD., CAMARILLO, CA 93010
PLEASANT VALLEY SCHOOL DISTRICT

DATE: 4/5/99
DRAWN: JB
JOB NO. 98 03 02N
L2.02
SHEET NO. OF



REMOTE CONTROL VALVE KEY



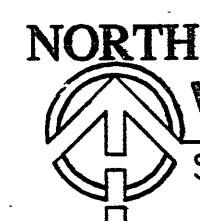
- NOTES:
- CONTRACTOR SHALL SLEEVE ALL PVC IRRIGATION PIPES AND WIRES INSTALLED UNDER PAVING. SEE SPECIFICATIONS.
 - IRRIGATION SYSTEM IS SHOWN DIAGRAMMATICALLY. INSTALL ALL IRRIGATION EQUIPMENT WITHIN LANDSCAPE PLANTERS WHENEVER POSSIBLE.
 - CONTRACTOR SHALL PURCHASE AND INSTALL A RAINMASTER PERMANENTLY MOUNTED RECEIVER KIT MODEL "PMR-KIT". THE RECEIVER SHALL BE INSTALLED IN THE CONTROLLER ENCLOSURE PER MANUFACTURER'S RECOMMENDATIONS.
 - THE CONTRACTOR SHALL PROVIDE (1) ONE RAINMASTER REMOTE CONTROL SYSTEM MODEL "PRO-MAX-1A". THE REMOTE CONTROL SYSTEM SHALL BE DELIVERED TO THE PLEASANT VALLEY SCHOOL DISTRICT REPRESENTATIVE PRIOR TO BEGINNING THE MAINTENANCE PERIOD.
 - THE CONTRACTOR SHALL INSTALL A RAINMASTER FAX TELEPHONE SWITCH AT THE MAIN PHONE PANEL AS PER MANUFACTURER'S RECOMMENDATIONS. THE RAINMASTER MODEL NUMBER FOR THIS PART IS EV-FAX-SWITCH.
 - TELEPHONE WIRE THAT WILL BE INSTALLED OUTSIDE OF BUILDING SHALL BE PULLED THROUGH A 3/4" SCH. 40 PVC ELECTRICAL CONDUIT TO IRRIGATION CONTROLLER SOURCE. CONDUITS THAT NEED TO BE BURIED SHALL BE INSTALLED 18" BELOW GRADE.

IRRIGATION CALCULATIONS

CALCULATIONS - VALVE F-1 86 GPM	
AVAILABLE WATER PRES.	110.0 PSI
LOSS @ METER	6.2 PSI
LOSS METER TO BV	3.8 PSI
LOSS @ MASTER VALVE/FLOW METER	3.5 PSI
LOSS @ BV	12.0 PSI
LOSS BV TO RCV	5.9 PSI
LOSS @ RCV	2.6 PSI
LOSS RCV TO LAST HEAD	2.7 PSI
LOSS - ELEVATION CHANGE	2.0 PSI
TOTAL FRICTION LOSS	38.7 PSI
OPERATING PSI	71.3 PSI

IRRIGATION LEGEND

SYMBOL	DESCRIPTION	MANUFACTURER	MODEL	DESCRIPTION
---	EXISTING MAINLINE	UNKNOWN	CLASS 160 PVC - GASKETED	
---	SLEEVING	PACIFIC / P.W. PIPE	CLASS 200	
---	MAINLINE (3" & LARGER)	PACIFIC / P.W. PIPE	GASKETED, IPS, PR200, SDR21	
---	MAINLINE (2 1/2" & SMALLER)	PACIFIC / P.W. PIPE	SCH 40 PVC SOL. WELD	
---	NON PRESSURE LATERAL	PACIFIC / P.W. PIPE	CL 200 PVC SOV. WELD	
[M]	EXISTING WATER METER	UNKNOWN	2" SIZE	POTABLE WATER SUPPLY - FOR IRRIGATION ONLY
[A]	AUTO CONTROLLER	RAINMASTER	DX42-PS-03-PH	STAINLESS STEEL PEDESTAL - WITH PHONE COMMUNICATION OPTION
[B]	BACKFLOW DEVICE	FEBCO	825-YD-3"	3" BRASS REDUCED PRES. BACKFLOW
[F]	FLOW METER	RAINMASTER	EVFM-P200 (2")	2" BRASS PRESSURE REGULATOR
[C]	QUICK COUPLER	BUCKNER	QB4RC-10	1" SIZE, RUBBER COVER, BRASS
[R]	REMOTE CONTROL VALVE	SUPERIOR	950 SERIES	BRASS VALVE - 200 PSI RATING
[G]	REMOTE CONTROL VALVE	SUPERIOR	950-DWPRS	PRESSURE REGULATING BRASS VALVE - 200 PSI RATING
[V]	BRONZE GATE VALVE	NIBCO	T-113 LINE SIZE	BRONZE-THREADED BOTH ENDS
[M]	MASTER VALVE	SUPERIOR	3100 SERIES - 3"	NORMALLY OPEN - 200 PSI RATING
[R]	POP UP TURF ROTOR	HUNTER	I-40-36S-42	GEAR DRIVEN, STAINLESS RISER, CHECK VALVE
[R]	POP UP TURF ROTOR	HUNTER	I-40-ADS-42	GEAR DRIVEN, STAINLESS RISER, CHECK VALVE
[R]	POP UP TURF ROTOR	HUNTER	I-40-ADS-42	GEAR DRIVEN, STAINLESS RISER, CHECK VALVE
[R]	POP UP TURF ROTOR	HUNTER	I-40-ADS-40	GEAR DRIVEN, STAINLESS RISER, CHECK VALVE
[R]	POP UP TURF ROTOR	HUNTER	PGP-36V-07	GEAR DRIVEN, PLASTIC RISER, CHECK VALVE
[R]	POP UP TURF ROTOR	HUNTER	PGP-ADV-LA-06-.04	GEAR DRIVEN, PLASTIC RISER, CHECK VALVE
[R]	POP UP TURF ROTOR	HUNTER	PGP-ADV-LA-08	GEAR DRIVEN, PLASTIC RISER, CHECK VALVE
[R]	POP UP TURF ROTOR	HUNTER	PGM-04-AV-2.0	GEAR DRIVEN, PLASTIC RISER, CHECK VALVE
[R]	POP UP TURF ROTOR	HUNTER	PGM-04-AV-2.0, & 1.0	GEAR DRIVEN, PLASTIC RISER, CHECK VALVE
[R]	POP UP TURF ROTOR	HUNTER	PGM-04-AV-1.5, & .75	GEAR DRIVEN, PLASTIC RISER, CHECK VALVE
[R]	POP UP TURF ROTOR	HUNTER	PGM-04-AV-2.0, & 1.5	GEAR DRIVEN, PLASTIC RISER, CHECK VALVE
[R]	POP UP TURF ROTOR	HUNTER	1804SAM-15-U-F.H.T.O	4" PLASTIC POP UP w/CHECK VALVE
[R]	POP UP TURF ROTOR	HUNTER	1804SAM-12-U-F.H.T.O	4" PLASTIC POP UP w/CHECK VALVE
[R]	POP UP TURF ROTOR	HUNTER	1804SAM-10-F.H.T.O	4" PLASTIC POP UP w/CHECK VALVE
[R]	POP UP TURF ROTOR	HUNTER	1806SAM-10-F.H.T.O	6" PLASTIC POP UP w/CHECK VALVE
[R]	POP UP TURF ROTOR	HUNTER	1806SAM-8-F.H.T.O	6" PLASTIC POP UP w/CHECK VALVE



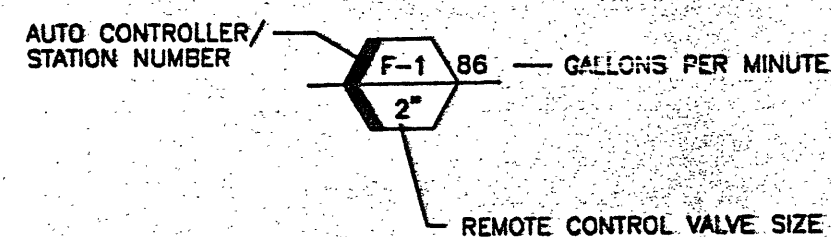
VALLE LINDO SCHOOL - IRRIGATION PLAN

SCALE: 1"=20'-0"

NOTES:

- CONTRACTOR SHALL SLEEVE ALL PVC IRRIGATION PIPES AND WIRES INSTALLED UNDER PAVING, SEE SPECIFICATIONS.
- IRRIGATION SYSTEM IS SHOWN DIAGRAMMATICALLY. INSTALL ALL IRRIGATION EQUIPMENT WITHIN LANDSCAPE PLANTERS WHENEVER POSSIBLE.
- CONTRACTOR SHALL PURCHASE AND INSTALL A RAINMASTER PERMANENTLY MOUNTED RECEIVER KIT MODEL "PMR-KIT". THE RECEIVER SHALL BE INSTALLED IN THE CONTROLLER ENCLOSURE PER MANUFACTURER'S RECOMMENDATIONS.
- THE CONTRACTOR SHALL PROVIDE (1) ONE RAINMASTER REMOTE CONTROL SYSTEM MODEL "PRO-MAX-10". THE REMOTE CONTROL SYSTEM SHALL BE DELIVERED TO THE PLEASANT VALLEY SCHOOL DISTRICT REPRESENTATIVE PRIOR TO BEGINNING THE MAINTENANCE PERIOD.
- THE CONTRACTOR SHALL INSTALL A RAINMASTER FAX TELEPHONE SWITCH AT THE MAIN PHONE PANEL AS PER MANUFACTURER'S RECOMMENDATIONS. THE RAINMASTER MODEL NUMBER FOR THIS PART IS EV-FAX-SWITCH.
- TELEPHONE WIRE THAT WILL BE INSTALLED OUTSIDE OF BUILDING SHALL BE PULLED THROUGH A 3/4" SCH. 40 PVC ELECTRICAL CONDUIT TO IRRIGATION CONTROLLER SOURCE. CONDUITS THAT NEED TO BE BURIED SHALL BE INSTALLED 18" BELOW GRADE.

REMOTE CONTROL VALVE KEY



IRRIGATION CALCULATIONS

CALCULATIONS - VALVE F-1 86 GPM	
AVAILABLE WATER PRES.	110.0 PSI
LOSS @ METER	6.2 PSI
LOSS METER TO BF	3.8 PSI
LOSS @ MASTER VALVE/FLOW METER	3.5 PSI
LOSS @ BF	12.0 PSI
LOSS BF TO RCV	5.9 PSI
LOSS @ RCV	2.6 PSI
LOSS RCV TO LAST HEAD	2.7 PSI
LOSS - ELEVATION CHANGE	2.0 PSI
TOTAL FRICTION LOSS	38.7 PSI
OPERATING PSI	71.3 PSI

IRRIGATION LEGEND

SYMBOL	DESCRIPTION	MANUFACTURER	MODEL	DESCRIPTION
---	EXISTING MAINLINE	UNKNOWN	CLASS 160 PVC - GASKETED	
---	SLEEVING	PACIFIC / P.W. PIPE	CLASS 200	
---	MAINLINE (3" & LARGER)	PACIFIC / P.W. PIPE	GASKETED, IPS, PR200, SDR21	
---	MAINLINE (2 1/2" & SMALLER)	PACIFIC / P.W. PIPE	SCH 40 PVC SOL. WELD	
---	NON. PRESSURE LATERAL	PACIFIC / P.W. PIPE	CL. 200 PVC SOV. WELD	
[M]	EXISTING WATER METER	UNKNOWN	2" SIZE	POTABLE WATER SUPPLY - FOR IRRIGATION ONLY
[F]	AUTO CONTROLLER	RAINMASTER	DX42-PS-03-PH	STAINLESS STEEL PEDESTAL - WITH PHONE COMMUNICATION OPTION
[F]	BACKFLOW DEVICE	FEBCO	925-YD-3"	3" BRASS REDUCED PRES. BACKFLOW
[F]	FLOW METER	RAINMASTER	EVFM-P200 (2")	2" BRASS PRESSURE REGULATOR
[F]	QUICK COUPLER	BUCKNER	QB44RC-10	1" SIZE, RUBBER COVER, BRASS
[F]	REMOTE CONTROL VALVE	SUPERIOR	950 SERIES	BRASS VALVE - 200 PSI RATING
[F]	REMOTE CONTROL VALVE	SUPERIOR	950-DWPRS	PRESSURE REGULATING BRASS VALVE - 200 PSI RATING
[F]	BRONZE GATE VALVE	NIBCO	T-113 - LINE SIZE	BRONZE-THREADED BOTH ENDS
[F]	MASTER VALVE	SUPERIOR	3100 SERIES - 3"	NORMALLY OPEN - 200 PSI RATING
[F]	POP UP TURF ROTOR	HUNTER	I-40-36S-42	GEAR DRIVEN, STAINLESS RISER, CHECK VALVE
[F]	POP UP TURF ROTOR	HUNTER	I-40-ADS-42	GEAR DRIVEN, STAINLESS RISER, CHECK VALVE
[F]	POP UP TURF ROTOR	HUNTER	I-40-ADS-42	GEAR DRIVEN, STAINLESS RISER, CHECK VALVE
[F]	POP UP TURF ROTOR	HUNTER	I-40-ADS-40	GEAR DRIVEN, STAINLESS RISER, CHECK VALVE
[F]	POP UP TURF ROTOR	HUNTER	PGP-36V-07	GEAR DRIVEN, PLASTIC RISER, CHECK VALVE
[F]	POP UP TURF ROTOR	HUNTER	PGP-ADV-LA-06-04	GEAR DRIVEN, PLASTIC RISER, CHECK VALVE
[F]	POP UP TURF ROTOR	HUNTER	PGP-ADV-LA-06	GEAR DRIVEN, PLASTIC RISER, CHECK VALVE
[F]	POP UP TURF ROTOR	HUNTER	PGM-04-AV-2.0	GEAR DRIVEN, PLASTIC RISER, CHECK VALVE
[F]	POP UP TURF ROTOR	HUNTER	PGM-04-AV-2.0 & 1.0	GEAR DRIVEN, PLASTIC RISER, CHECK VALVE
[F]	POP UP TURF ROTOR	HUNTER	PGM-04-AV-1.5 & .75	GEAR DRIVEN, PLASTIC RISER, CHECK VALVE
[F]	POP UP TURF ROTOR	HUNTER	PGM-04-AV-2.0 & 1.5	GEAR DRIVEN, PLASTIC RISER, CHECK VALVE
[F]	POP UP TURF ROTOR	HUNTER	1804SM-15-U-F.H.T.Q	4" PLASTIC POP UP w/CHECK VALVE
[F]	POP UP TURF ROTOR	HUNTER	1804SM-12-U-F.H.T.Q	4" PLASTIC POP UP w/CHECK VALVE
[F]	POP UP TURF ROTOR	HUNTER	1806SM-10-F.H.T.Q	6" PLASTIC POP UP w/CHECK VALVE
[F]	POP UP TURF ROTOR	HUNTER	1806SM-8-F.H.T.Q	6" PLASTIC POP UP w/CHECK VALVE
[F]	POP UP TURF ROTOR	HUNTER	1806SM-6-F.H.T.Q	6" PLASTIC POP UP w/CHECK VALVE

REVISIONS:

DATE:

JOG LANDSCAPE ARCHITECTS INC.

LANDSCAPE ARCHITECTS

3350 LOMA VISTA ROAD, VENTURA CA 93003

(805) 642-3641 FAX (805) 642-9614

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305 UNIVERSITY AVE. VENTURA, CA 93003 • (805) 655-5072

305 CALLE STREET, VAN NUYS, CA 91410 • (805) 788-7876

IRRIGATION PLAN

LANDSCAPE IMPROVEMENTS FOR

VALLE LINDO SCHOOL

2222 E. VENTURA BLVD., CAMARILLO, CA 93010

PLEASANT VALLEY SCHOOL DISTRICT

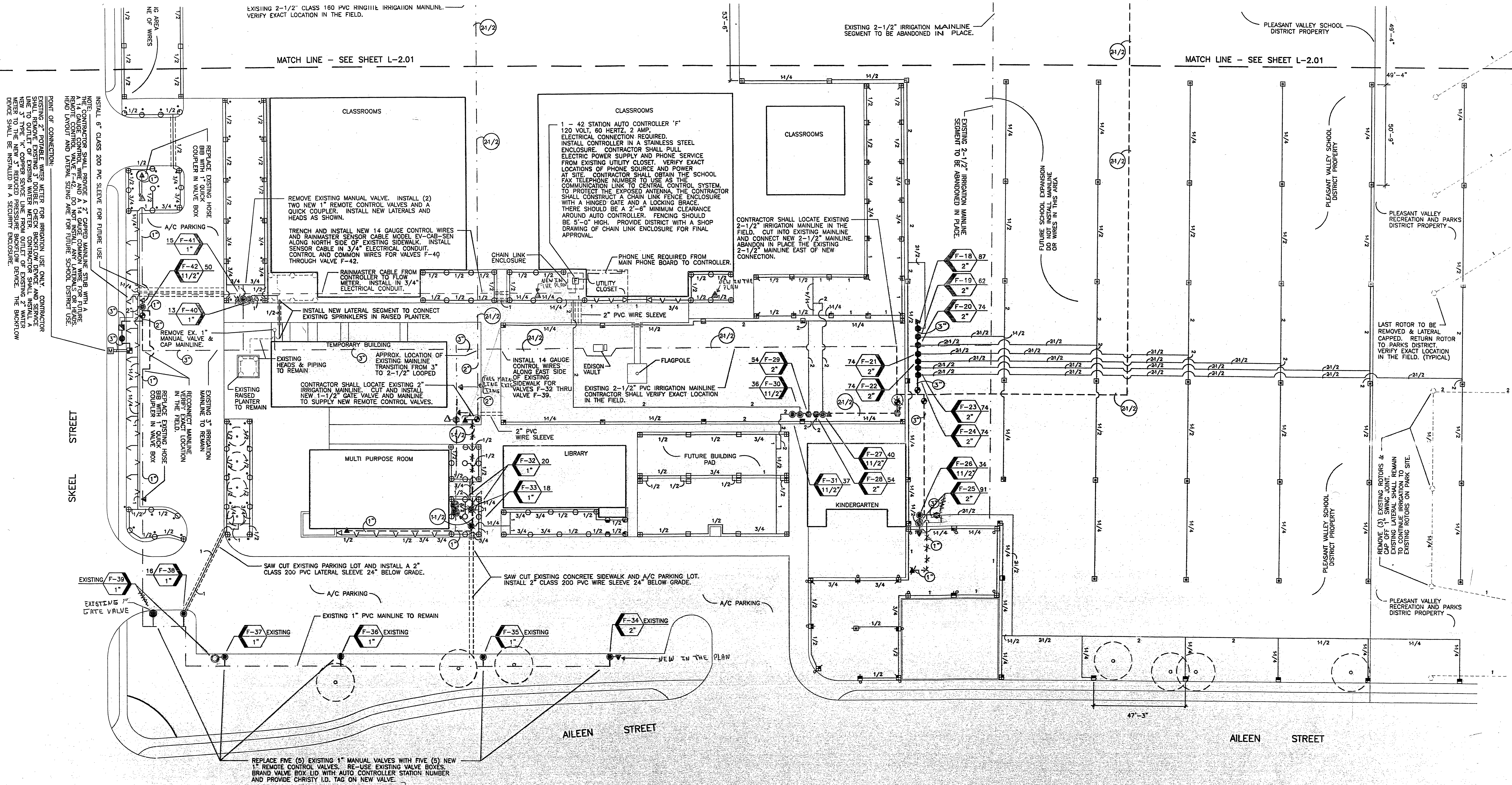
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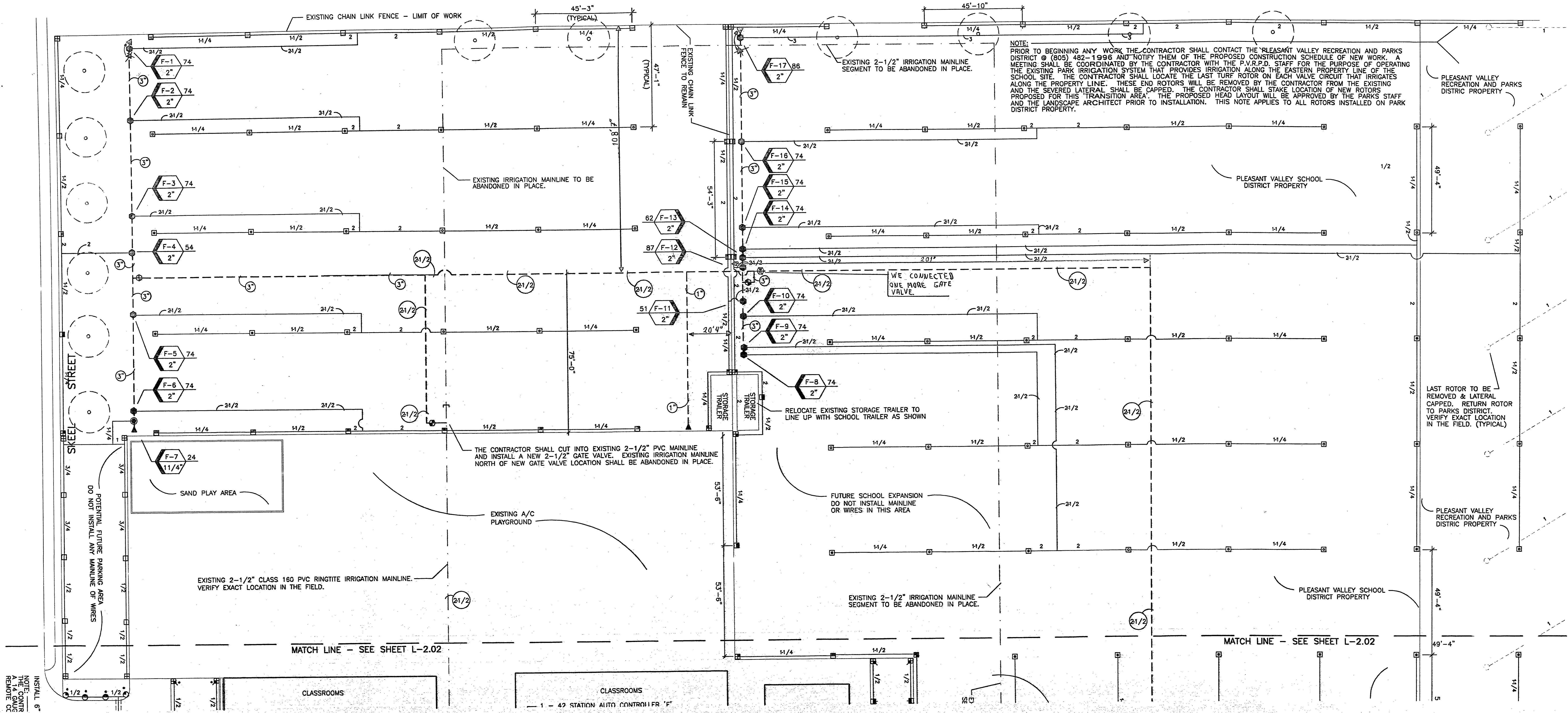
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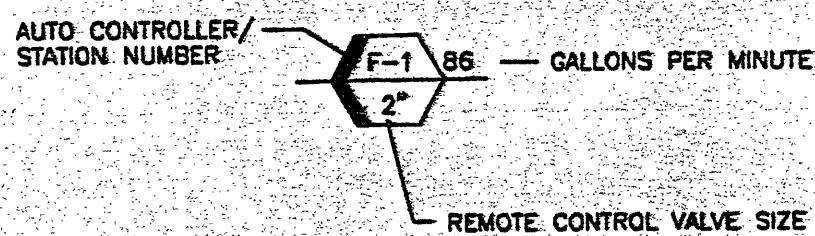
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IRRIGATION LEGEND									
SYMBOL	DESCRIPTION	MANUFACTURER	MODEL	DESCRIPTION					
---	EXISTING MAINLINE	UNKNOWN	CLASS 160 PVC - GASKETED						
---	SLEEVING	PACIFIC / P.W. PIPE	CLASS 200						
---	MAINLINE (3" & LARGER)	PACIFIC / P.W. PIPE	GASKETED, IPS, PR200, SDR21						
---	MAINLINE (2 1/2" & SMALLER)	PACIFIC / P.W. PIPE	SCH 40 PVC SOL. WELD						
---	NON PRESSURE LATERAL	PACIFIC / P.W. PIPE	CL 200 PVC SOV. WELD						
(M)	EXISTING WATER METER	UNKNOWN	2" SIZE	POTABLE WATER SUPPLY - FOR IRRIGATION ONLY					
(F)	AUTO CONTROLLER	RAINMASTER	DX42-PS-03-PH	STAINLESS STEEL PEDESTAL - WITH PHONE COMMUNICATION OPTION					
---	BACKFLOW DEVICE	FEBCO	825-YD-3"	3" BRASS REDUCED PRES. BACKFLOW					
---	FLOW METER	RAINMASTER	EVFM-P200 (2")	2" BRASS PRESSURE REGULATOR					
---	QUICK COUPLER	BUCKNER	Q84RC-10	1" SIZE, RUBBER COVER, BRASS					
---	REMOTE CONTROL VALVE	SUPERIOR	950 SERIES	BRASS VALVE - 200 PSI RATING					
---	REMOTE CONTROL VALVE	SUPERIOR	950-DWPRS	PRESSURE REGULATING BRASS VALVE - 200 PSI RATING					
---	BRONZE GATE VALVE	NIBCO	T-113 - LINE SIZE	BRONZE-THREADED BOTH ENDS					
---	MAST. VALVE	SUPERIOR	3100 SERIES - 3"	NORMALLY OPEN - 200 PSI RATING					
(R)	POP UP TURF ROTOR	HUNTER	I-40-36S-42	GEAR DRIVEN, STAINLESS RISER, CHECK VALVE	60	55	12.3		
(R)	POP UP TURF ROTOR	HUNTER	I-40-ADS-42	GEAR DRIVEN, STAINLESS RISER, CHECK VALVE	60	55	12.3		
(R)	POP UP TURF ROTOR	HUNTER	I-40-ADS-42	GEAR DRIVEN, STAINLESS RISER, CHECK VALVE	60	55	12.3		
(R)	POP UP TURF ROTOR	HUNTER	I-40-ADS-40	GEAR DRIVEN, STAINLESS RISER, CHECK VALVE	60	48			8.5
(R)	POP UP TURF ROTOR	HUNTER	PGP-36V-07	GEAR DRIVEN, PLASTIC RISER, CHECK VALVE	50	35	3.4		
(R)	POP UP TURF ROTOR	HUNTER	PGP-ADV-LA-06-04	GEAR DRIVEN, PLASTIC RISER, CHECK VALVE	50	33			2.8
(R)	POP UP TURF ROTOR	HUNTER	PGP-ADV-LA-06	GEAR DRIVEN, PLASTIC RISER, CHECK VALVE	50	33			2.8
(R)	POP UP TURF ROTOR	HUNTER	PGM-04-AV-2.0	GEAR DRIVEN, PLASTIC RISER, CHECK VALVE	50	24	2.3		
(R)	POP UP TURF ROTOR	HUNTER	PGM-04-AV-2.0, & 1.0	GEAR DRIVEN, PLASTIC RISER, CHECK VALVE	50	21		2.3	1.1
(R)	POP UP TURF ROTOR	HUNTER	PGM-04-AV-2.0, & .75	GEAR DRIVEN, PLASTIC RISER, CHECK VALVE	50	24		1.7	.85
(R)	POP UP TURF ROTOR	HUNTER	PGM-04-AV-2.0, & .15	GEAR DRIVEN, PLASTIC RISER, CHECK VALVE	50	27		2.3	1.7
(R)	POP UP TURF ROTOR	RAIN BIRD	1804SAM-15-U-F.H.T.O	4" PLASTIC POP UP w/CHECK VALVE	30	15	3.7	1.85	1.23
(R)	POP UP TURF ROTOR	RAIN BIRD	1804SAM-12-U-F.H.T.O	4" PLASTIC POP UP w/CHECK VALVE	30	12	2.6	1.30	.87
(R)	POP UP TURF ROTOR	RAIN BIRD	1804SAM-10-F.H.T.O	4" PLASTIC POP UP w/CHECK VALVE	30	10	1.8	.79	.52
(R)	POP UP TURF ROTOR	RAIN BIRD	1806SAM-10-F.H.T.O	6" PLASTIC POP UP w/CHECK VALVE	30	10	1.8	.79	.52
(R)	POP UP TURF ROTOR	RAIN BIRD	1806SAM-8-F.H.T.O	6" PLASTIC POP UP w/CHECK VALVE	30	8	1.05	.52	.35



REMOTE CONTROL VALVE KEY



NOTES:

- CONTRACTOR SHALL SLEEVE ALL PVC IRRIGATION PIPES AND WIRES INSTALLED UNDER PAVING. SEE SPECIFICATIONS.
- IRRIGATION SYSTEM IS SHOWN DIAGRAMMATICALLY. INSTALL ALL IRRIGATION EQUIPMENT WITHIN LANDSCAPE PLANTERS WHENEVER POSSIBLE.
- CONTRACTOR SHALL PURCHASE AND INSTALL A RAINMASTER PERMANENTLY MOUNTED RECEIVER KIT MODEL "PMR-KIT". THE RECEIVER SHALL BE INSTALLED IN THE CONTROLLER ENCLOSURE PER MANUFACTURER'S RECOMMENDATIONS.
- THE CONTRACTOR SHALL PROVIDE (1) ONE RAINMASTER REMOTE CONTROL SYSTEM MODEL "PRO-MAX-1A". THE REMOTE CONTROL SYSTEM SHALL BE DELIVERED TO THE PLEASANT VALLEY SCHOOL DISTRICT REPRESENTATIVE PRIOR TO BEGINNING THE MAINTENANCE PERIOD.
- THE CONTRACTOR SHALL INSTALL A RAINMASTER FAX TELEPHONE SWITCH AT THE MAIN PHONE PANEL AS PER MANUFACTURER'S RECOMMENDATIONS. THE RAINMASTER MODEL NUMBER FOR THIS PART IS EV-FAX-SWITCH.
- TELEPHONE WIRE THAT WILL BE INSTALLED OUTSIDE OF BUILDING SHALL BE PULLED THROUGH A 3/4" SCH. 40 PVC ELECTRICAL CONDUIT TO IRRIGATION CONTROLLER SOURCE. CONDUITS THAT NEED TO BE BURIED SHALL BE INSTALLED 18" BELOW GRADE.

IRRIGATION CALCULATIONS

CALCULATIONS - VALVE F-1 88 GPM	
AVAILABLE WATER PRES.	110.0 PSI
LOSS @ METER	6.2 PSI
LOSS METER TO BF	3.8 PSI
LOSS @ MASTER VALVE/FLOW METER	3.5 PSI
LOSS @ BF	12.0 PSI
LOSS @ RCV	5.9 PSI
LOSS @ RCV TO LAST HEAD	2.6 PSI
LOSS - ELEVATION CHANGE	2.0 PSI
TOTAL FRICTION LOSS	38.7 PSI
OPERATING PSI	71.3 PSI

IRRIGATION LEGEND

SYMBOL	DESCRIPTION	MANUFACTURER	MODEL	DESCRIPTION
---	EXISTING MAINLINE	UNKNOWN	CLASS 160 PVC - GASKETED	
---	SLEEVING	PACIFIC / P.W. PIPE	CLASS 200	
---	MAINLINE (3" & LARGER)	PACIFIC / P.W. PIPE	CASKETED, IPS, PR200, SDR21	
---	MAINLINE (2 1/2" & SMALLER)	PACIFIC / P.W. PIPE	SCH 40 PVC SOL. WELD	
---	NON PRESSURE LATERAL	PACIFIC / P.W. PIPE	CL 200 PVC SOL. WELD	
---	EXISTING WATER METER	UNKNOWN	2" SIZE	POTABLE WATER SUPPLY - FOR IRRIGATION ONLY
[F]	AUTO CONTROLLER	RAINMASTER	DX42-PS-03-PH	STAINLESS STEEL PEDESTAL - WITH PHONE COMMUNICATION OPTION
[B]	BACKFLOW DEVICE	FEBCO	825-YD-3"	3" BRASS REDUCED PRES. BACKFLOW
[F]	FLOW METER	RAINMASTER	EVFM-P200 (2")	2" BRASS PRESSURE REGULATOR
[C]	QUICK COUPLER	BUCKNER	QB44RC-10	1" SIZE, RUBBER COVER, BRASS
[R]	REMOTE CONTROL VALVE	SUPERIOR	950 SERIES	BRASS VALVE - 200 PSI RATING
[R]	REMOTE CONTROL VALVE	SUPERIOR	T-113 - LINE SIZE	PRESSURE REGULATING BRASS VALVE - 200 PSI RATING
[R]	BRONZE GATE VALVE	NIBCO	3100 SERIES - 3"	BRONZE-THREADED BOTH ENDS
[R]	MASTER VALVE	SUPERIOR	3100 SERIES - 3"	NORMALLY OPEN - 200 PSI RATING
[R]	POP UP TURF ROTOR	HUNTER	I-40-36S-42	GEAR DRIVEN, STAINLESS RISER, CHECK VALVE
[R]	POP UP TURF ROTOR	HUNTER	I-40-ADS-42	GEAR DRIVEN, STAINLESS RISER, CHECK VALVE
[R]	POP UP TURF ROTOR	HUNTER	I-40-ADS-42	GEAR DRIVEN, STAINLESS RISER, CHECK VALVE
[R]	POP UP TURF ROTOR	HUNTER	PGP-36V-07	GEAR DRIVEN, PLASTIC RISER, CHECK VALVE
[R]	POP UP TURF ROTOR	HUNTER	PGP-ADV-LA-08, 04	GEAR DRIVEN, PLASTIC RISER, CHECK VALVE
[R]	POP UP TURF ROTOR	HUNTER	PGP-ADV-LA-08	GEAR DRIVEN, PLASTIC RISER, CHECK VALVE
[R]	POP UP TURF ROTOR	HUNTER	PGM-04-AV-2.0	GEAR DRIVEN, PLASTIC RISER, CHECK VALVE
[R]	POP UP TURF ROTOR	HUNTER	PGM-04-AV-2.0 & 1.0	GEAR DRIVEN, PLASTIC RISER, CHECK VALVE
[R]	POP UP TURF ROTOR	HUNTER	PGM-04-AV-1.5 & .75	GEAR DRIVEN, PLASTIC RISER, CHECK VALVE
[R]	POP UP TURF ROTOR	HUNTER	PGM-04-AV-1.5 & .1.5	GEAR DRIVEN, PLASTIC RISER, CHECK VALVE
[R]	POP UP TURF ROTOR	HUNTER	1804SAM-15-U-F.H.T.Q	4" PLASTIC POP UP w/CHECK VALVE
[R]	POP UP TURF ROTOR	HUNTER	1804SAM-12-U-F.H.T.Q	4" PLASTIC POP UP w/CHECK VALVE
[R]	POP UP TURF ROTOR	HUNTER	1804SAM-10-F.H.T.Q	4" PLASTIC POP UP w/CHECK VALVE
[R]	POP UP TURF ROTOR	HUNTER	1806SAM-10-F.H.T.Q	6" PLASTIC POP UP w/CHECK VALVE
[R]	POP UP TURF ROTOR	HUNTER	1806SAM-8-F.H.T.Q	8" PLASTIC POP UP w/CHECK VALVE

REVISIONS:
DATE:

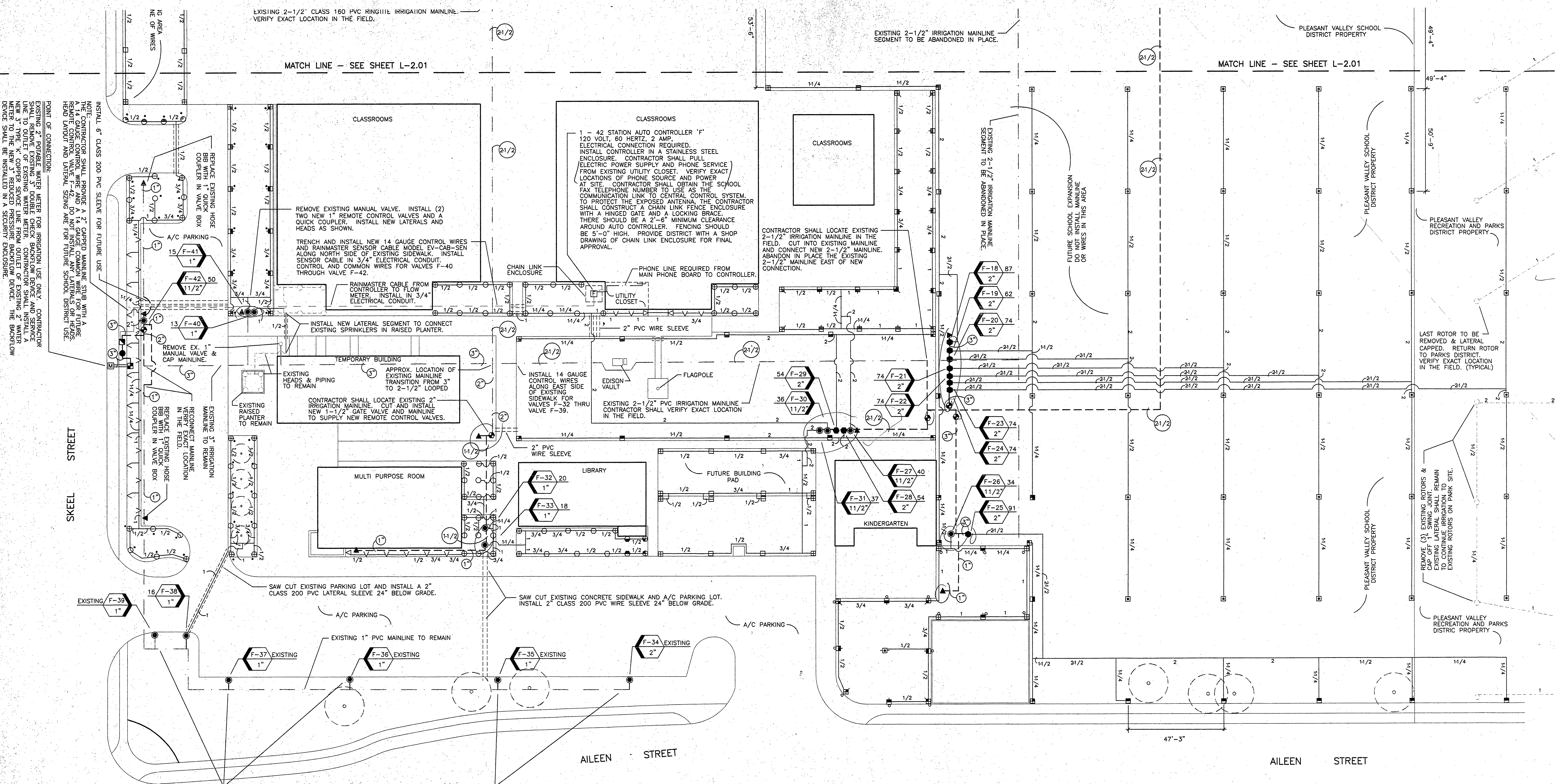
JOG LANDSCAPE ARCHITECTS INC.
LANDSCAPE ARCHITECTS
3350 LOMA VISTA ROAD, VENTURA CA 93003
(805) 642-3641 FAX (805) 642-9614

LAUTERBACH & ASSOCIATES
ARCHITECTURE/PLANNING
300 MONTGOMERY AVE. OAKLAND, CA 94612 • (415) 888-0912 FAX (415) 888-0912
1401 CALIFORNIA STREET, SAN JOSE, CA 95128 • (408) 755-0425 FAX (408) 752-4116

IRrigation PLAN
LANDSCAPE IMPROVEMENTS FOR:
VALLE LINDO SCHOOL
2222 E. VENTURA BLVD., CAMARILLO, CA 93010
PLEASANT VALLEY SCHOOL DISTRICT

DATE: 4/5/99
DRAWN: JB
JOB NO. 98 03 02N
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SHEET NO. OF

RECEIVED
JAN 07 2000
BERNARDI BROS. INC.



SYMBOL		DESCRIPTION		MANUFACTURER		MODEL		DESCRIPTION	
---	---	EXISTING MAINLINE	UNKNOWN			CLASS 160 PVC - GASKETED			
---	---	SLEEVING	PACIFIC / P.W. PIPE			CLASS 200			
---	---	MAINLINE (3" & LARGER)	PACIFIC / P.W. PIPE			GASKETED, IPS, PR200, SDR21			
---	---	MAINLINE (2 1/2" & SMALLER)	PACIFIC / P.W. PIPE			SCH 40 PVC SOL WELD			
---	---	NON PRESSURE LATERAL	PACIFIC / P.W. PIPE			CL 200 PVC SOV. WELD			
[M]		EXISTING WATER METER	UNKNOWN			2" SIZE		POTABLE WATER SUPPLY - FOR IRRIGATION ONLY	
[F]		AUTO CONTROLLER	RAINMASTER			DX42-PS-03-PH		STAINLESS STEEL PEDESTAL - WITH PHONE COMMUNICATION OPTION	
[B]		BACKFLOW DEVICE	FEBCO			825-YD-3"		3" BRASS REDUCED PRES. BACKFLOW	
[F]		FLOW METER	RAINMASTER			EVFM-P200 (2")		2" BRASS PRESSURE REGULATOR	
[Q]		QUICK COUPLER	BUCKNER			QB44RC-10		1" SIZE, RUBBER COVER, BRASS	
[R]		REMOTE CONTROL VALVE	SUPERIOR			950-SERIES		BRASS VALVE - 200 PSI RATING	
[R]		REMOTE CONTROL VALVE	SUPERIOR			950-DWPRS		PRESSURE REGULATING BRASS VALVE - 200 PSI RATING	
[R]		BRONZE GATE VALVE	NIBCO			T-113 - LINE SIZE		BRONZE-THREADED BOTH ENDS	
[R]		MASTER VALVE	SUPERIOR			3100 SERIES - 3"		NORMALLY OPEN - 200 PSI RATING	
[R]		POP UP TURF ROTOR	HUNTER			I-40-36S-42		GEAR DRIVEN, STAINLESS RISER, CHECK VALVE	60 55 12.3
[R]		POP UP TURF ROTOR	HUNTER			I-40-ADS-42		GEAR DRIVEN, STAINLESS RISER, CHECK VALVE	60 55 12.3
[R]		POP UP TURF ROTOR	HUNTER			I-40-ADS-42		GEAR DRIVEN, STAINLESS RISER, CHECK VALVE	60 55 12.3
[R]		POP UP TURF ROTOR	HUNTER			I-40-ADS-40		GEAR DRIVEN, STAINLESS RISER, CHECK VALVE	60 48 8.5
[R]		POP UP TURF ROTOR	HUNTER			PGP-36V-07		GEAR DRIVEN, PLASTIC RISER, CHECK VALVE	50 35 3.4
[R]		POP UP TURF ROTOR	HUNTER			PGP-ADV-LA-06-04		GEAR DRIVEN, PLASTIC RISER, CHECK VALVE	50 33 2.8
[R]		POP UP TURF ROTOR	HUNTER			PGP-ADV-LA-06		GEAR DRIVEN, PLASTIC RISER, CHECK VALVE	50 33 2.8
[R]		POP UP TURF ROTOR	HUNTER			PGM-04-AV-2.0		GEAR DRIVEN, PLASTIC RISER, CHECK VALVE	50 24 2.3
[R]		POP UP TURF ROTOR	HUNTER			PGM-04-AV-2.0, & 1.0		GEAR DRIVEN, PLASTIC RISER, CHECK VALVE	50 21 2.3
[R]		POP UP TURF ROTOR	HUNTER			PGM-04-AV-1.5, & .75		GEAR DRIVEN, PLASTIC RISER, CHECK VALVE	50 24 1.7
[R]		POP UP TURF ROTOR	HUNTER			PGM-04-AV-2.0, & 1.5		GEAR DRIVEN, PLASTIC RISER, CHECK VALVE	50 27 2.3
[R]		POP UP TURF SPRAY	RAIN BIRD			1804SAM-15-U-F.H.T.Q		4" PLASTIC POP UP w/CHECK VALVE	30 15 3.7 1.85 1.23 .93
[R]		POP UP TURF SPRAY	RAIN BIRD			1804SAM-12-U-F.H.T.Q		4" PLASTIC POP UP w/CHECK VALVE	30 12 2.6 1.30 .87 .65
[R]		POP UP TURF SPRAY	RAIN BIRD			1804SAM-10-U-F.H.T.Q		4" PLASTIC POP UP w/CHECK VALVE	30 10 1.57 .79 .52 .39
[R]		POP UP SHRUB SPRAY	RAIN BIRD			1806SAM-10-U-F.H.T.Q		6" PLASTIC POP UP w/CHECK VALVE	30 10 1.57 .79 .52 .39
[R]		POP UP SHRUB SPRAY	RAIN BIRD			1806SAM-8-U-F.H.T.Q		6" PLASTIC POP UP w/CHECK VALVE	30 8 1.05 .52 .35 .26

REVISIONS:

DATE:

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14055 CALIF. STREET, VAN NUYS, CA 91411 • (818) 756-0425 FAX (818) 752-4176

IRRIGATION PLAN

LANDSCAPE IMPROVEMENTS FOR:

VALLE LINDO SCHOOL

2222 E. VENTURA BLVD., CAMARILLO, CA 93010

PLEASANT VALLEY SCHOOL DISTRICT

DATE: 4/5/99

DRAWN: JB

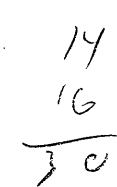
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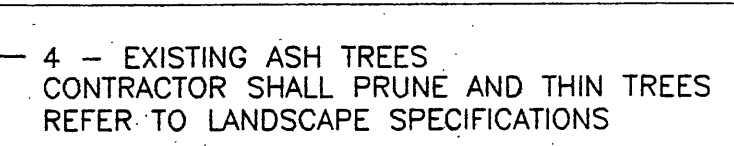
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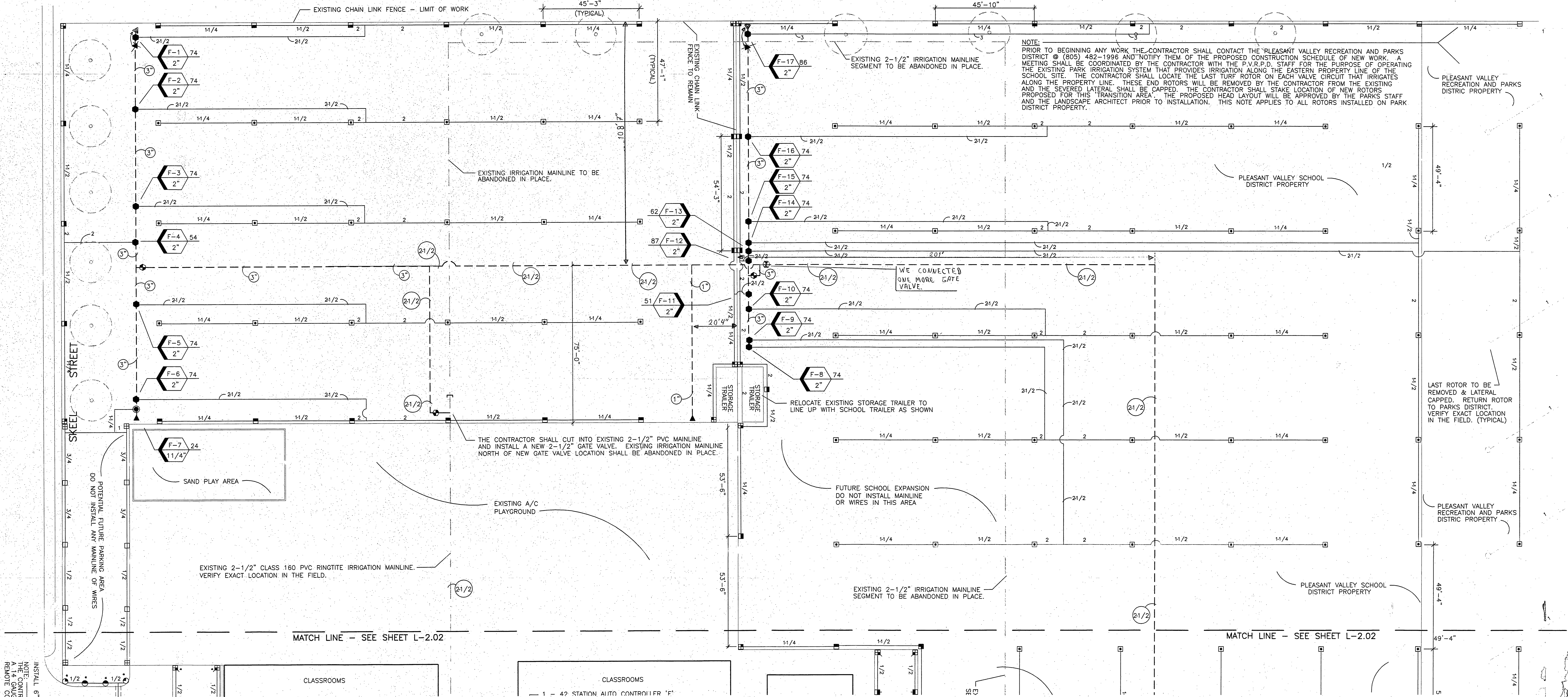
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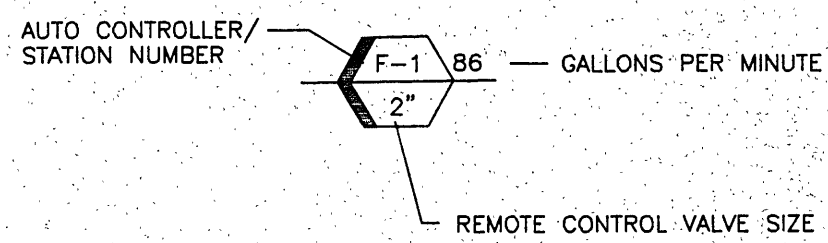
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REMOTE CONTROL VALVE KEY



NOTES:

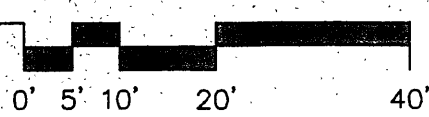
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IRRIGATION CALCULATIONS

CALCULATIONS - VALVE F-1 86 GPM	
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LOSS @ METER	6.2 PSI
LOSS METER TO BF	3.8 PSI
LOSS @ MASTER VALVE/FLOW METER	3.5 PSI
LOSS @ BF	12.0 PSI
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LOSS - ELEVATION CHANGE	2.0 PSI
TOTAL FRICTION LOSS	38.7 PSI
OPERATING PSI	71.3 PSI

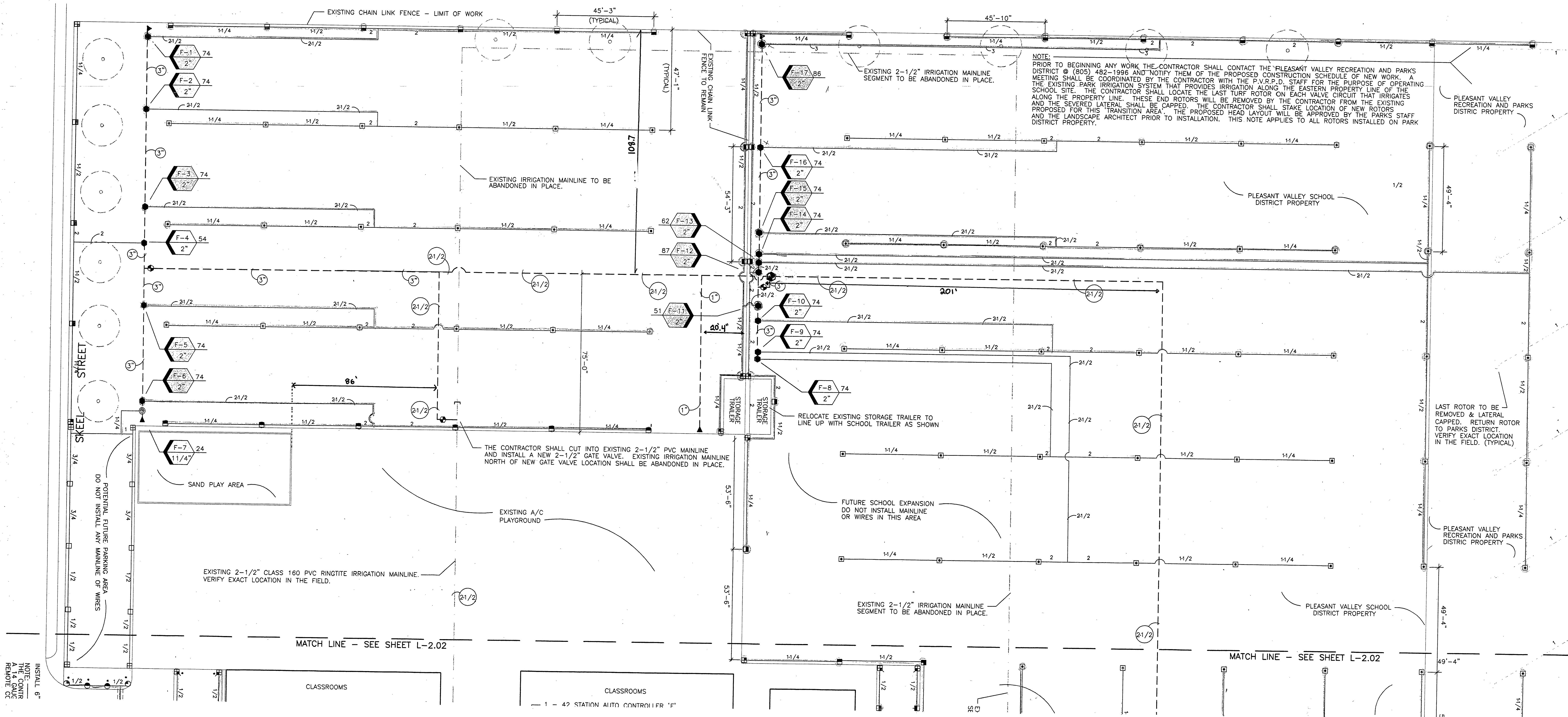
IRRIGATION LEGEND

SYMBOL	DESCRIPTION	MANUFACTURER	MODEL	DESCRIPTION
---	EXISTING MAINLINE	UNKNOWN	CLASS 160 PVC - GASKETED	
=====	SLEEVING	PACIFIC / P.W. PIPE	CLASS 200	
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[M]	EXISTING WATER METER	UNKNOWN	2" SIZE	POTABLE WATER SUPPLY - FOR IRRIGATION ONLY
[F]	AUTO CONTROLLER	RAINMASTER	DX42-PS-03-PH	STAINLESS STEEL PEDESTAL - WITH PHONE COMMUNICATION OPTION
[B]	BACKFLOW DEVICE	FEBCO	825-YD-3"	3" BRASS REDUCED PRES. BACKFLOW
[F]	FLOW METER	RAINMASTER	EVFM-P200 (2")	2" BRASS PRESSURE REGULATOR
[A]	QUICK COUPLER	BUCKNER	QB44RC-10	1" SIZE, RUBBER COVER, BRASS
[B]	REMOTE CONTROL VALVE	SUPERIOR	950-SERIES	BRASS VALVE - 200 PSI RATING
[B]	REMOTE CONTROL VALVE	SUPERIOR	950-DWPRS	PRESSURE REGULATING BRASS VALVE - 200 PSI RATING
[B]	BRONZE GATE VALVE	NIBCO	T-113 - LINE SIZE	BRONZE-THREADED BOTH ENDS
[B]	MASTER VALVE	SUPERIOR	3100 SERIES - 3"	NORMALLY OPEN - 200 PSI RATING
[B]	POP UP TURF ROTOR	HUNTER	I-40-365-42	GEAR DRIVEN, STAINLESS RISER, CHECK VALVE
[B]	POP UP TURF ROTOR	HUNTER	I-40-ADS-42	GEAR DRIVEN, STAINLESS RISER, CHECK VALVE
[B]	POP UP TURF ROTOR	HUNTER	I-40-ADS-42	GEAR DRIVEN, STAINLESS RISER, CHECK VALVE
[B]	POP UP TURF ROTOR	HUNTER	PGP-36V-07	GEAR DRIVEN, PLASTIC RISER, CHECK VALVE
[B]	POP UP TURF ROTOR	HUNTER	PGP-ADV-LA-06,-04	GEAR DRIVEN, PLASTIC RISER, CHECK VALVE
[B]	POP UP TURF ROTOR	HUNTER	PGP-ADV-LA-06	GEAR DRIVEN, PLASTIC RISER, CHECK VALVE
[B]	POP UP TURF ROTOR	HUNTER	PGM-04-AV-2.0	GEAR DRIVEN, PLASTIC RISER, CHECK VALVE
[B]	POP UP TURF ROTOR	HUNTER	PGM-04-AV-2.0, & 1.0	GEAR DRIVEN, PLASTIC RISER, CHECK VALVE
[B]	POP UP TURF ROTOR	HUNTER	PGM-04-AV-1.5, & .75	GEAR DRIVEN, PLASTIC RISER, CHECK VALVE
[B]	POP UP TURF ROTOR	HUNTER	PGM-04-AV-2.0, & 1.5	GEAR DRIVEN, PLASTIC RISER, CHECK VALVE
[B]	POP UP TURF SPRAY	RAIN BIRD	1804SAM-15"-U-F.H.T.O	4" PLASTIC POP UP w/CHECK VALVE
[B]	POP UP TURF SPRAY	RAIN BIRD	1804SAM-12"-U-F.H.T.O	4" PLASTIC POP UP w/CHECK VALVE
[B]	POP UP TURF SPRAY	RAIN BIRD	1804SAM-10"-F.H.T.O	4" PLASTIC POP UP w/CHECK VALVE
[B]	POP UP SHRUB SPRAY	RAIN BIRD	1806SAM-10"-F.H.T.O	6" PLASTIC POP UP w/CHECK VALVE
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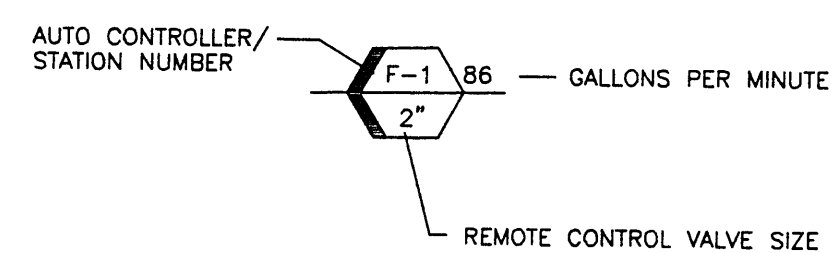




FOR CONSTRUCTION



REMOTE CONTROL VALVE KEY



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IRRIGATION CALCULATIONS

CALCULATIONS - VALVE F-1 86 GPM	
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LOSS RCV TO LAST HEAD	2.7 PSI
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IRRIGATION LEGEND

SYMBOL	DESCRIPTION	MANUFACTURER	MODEL	DESCRIPTION
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----	SLEEVING	PACIFIC / P.W. PIPE	CLASS 200	
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----	NON PRESSURE LATERAL	PACIFIC / P.W. PIPE	CL 200 PVC SOV. WELD	
[M]	EXISTING WATER METER	UNKNOWN	2" SIZE	POTABLE WATER SUPPLY - FOR IRRIGATION ONLY
[F]	AUTO CONTROLLER	RAINMASTER	DX42-PS-03-PH	STAINLESS STEEL PEDESTAL - WITH PHONE COMMUNICATION OPTION
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[F]	FLOW METER	RAINMASTER	EVFM-P200 (2")	1" SIZE, RUBBER COVER, BRASS
[C]	QUICK COUPLER	BUCKNER	0B44RC-10	BRASS VALVE - 200 PSI RATING
[R]	REMOTE CONTROL VALVE	SUPERIOR	950 SERIES	PRESSURE REGULATING BRASS VALVE - 200 PSI RATING
[R]	REMOTE CONTROL VALVE	SUPERIOR	950-DWPRS	BRONZE-THREADED BOTH ENDS
[R]	BRONZE GATE VALVE	NIBCO	T-113 - LINE SIZE	NORMALLY OPEN - 200 PSI RATING
[R]	MASTER VALVE	SUPERIOR	3100 SERIES - 3"	
[R]	POP UP TURF ROTOR	HUNTER	I-40-36S-42	PSI RAD GPM GPM GPM GPM GPM
[R]	POP UP TURF ROTOR	HUNTER	I-40-ADS-42	F TO H T Q
[R]	POP UP TURF ROTOR	HUNTER	I-40-ADS-42	
[R]	POP UP TURF ROTOR	HUNTER	I-40-ADS-40	
[R]	POP UP TURF ROTOR	HUNTER	PGP-36V-07	
[R]	POP UP TURF ROTOR	HUNTER	PGP-ADV-LA-06-.04	
[R]	POP UP TURF ROTOR	HUNTER	PGM-04-AV-2.0	
[R]	POP UP TURF ROTOR	HUNTER	PGM-04-AV-2.0, & 1.0	
[R]	POP UP TURF ROTOR	HUNTER	PGM-04-AV-1.5, & .75	
[R]	POP UP TURF ROTOR	HUNTER	PGM-04-AV-2.0, & 1.5	
[R]	POP UP TURF SPRAY	RAIN BIRD	1804SAM-15"-U-F.H.T.Q	
[R]	POP UP TURF SPRAY	RAIN BIRD	1804SAM-12"-U-F.H.T.Q	
[R]	POP UP TURF SPRAY	RAIN BIRD	1804SAM-10"-F.H.T.Q	
[R]	POP UP SHRUB SPRAY	RAIN BIRD	1806SAM-10"-F.H.T.Q	
[R]	POP UP SHRUB SPRAY	RAIN BIRD	1806SAM-8"-F.H.T.Q	