

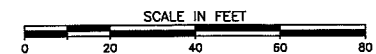
HOLLISTER AVENUE (PUBLIC ROAD)

HOLLISTER AVENUE (PUBLIC ROAD)

RECEIVED

NOV 29 2010

City of Goleta  
Planning & Environmental Svcs



REFERENCES:  
DRAWING FILE: 0331HOLLWIDEN.DWG  
DATA FILE:  
PROJECT FILE:  
VIEW NAME: PLOT2.MPLAN2.MPROF2  
XREF NAME(S): 0331XSTE.DWG, 0331XTPO.DWG  
0331HOLLWIDEN.DWG 06/01/10 01:04:47 PM PDT

GAS SYSTEM APPROVED BY  
DATE  
SOUTHERN CALIFORNIA GAS CO.  
REVIEWED BY  
DATE  
VERIZON COMMUNICATIONS

REVIEWED BY  
DATE  
FLOOD CONTROL ENGINEER, SBCFCWCD  
REVIEWED BY  
DATE  
SOUTHERN CALIFORNIA EDISON CO.

NO.	DATE	REVISIONS	APPD.

MAC Design Associates  
CIVIL ENGINEERING • LAND PLANNING • BRIDGE DESIGN  
1533 CLAY DRIVE, SUITE 4, SANTA BARBARA, CALIF. 93101 (805) 963-4740  
71 805-963-4742 www.macdesign.com

DESIGN: MAC  
DRAWN: TLA  
MICHAEL A. CACCISE, DATE: 08-01-10  
PROJECT ENGINEER  
R.C.E. 26887 (EXP. 3-31-11)

REVIEWED BY:  
DATE  
CITY ENGINEER

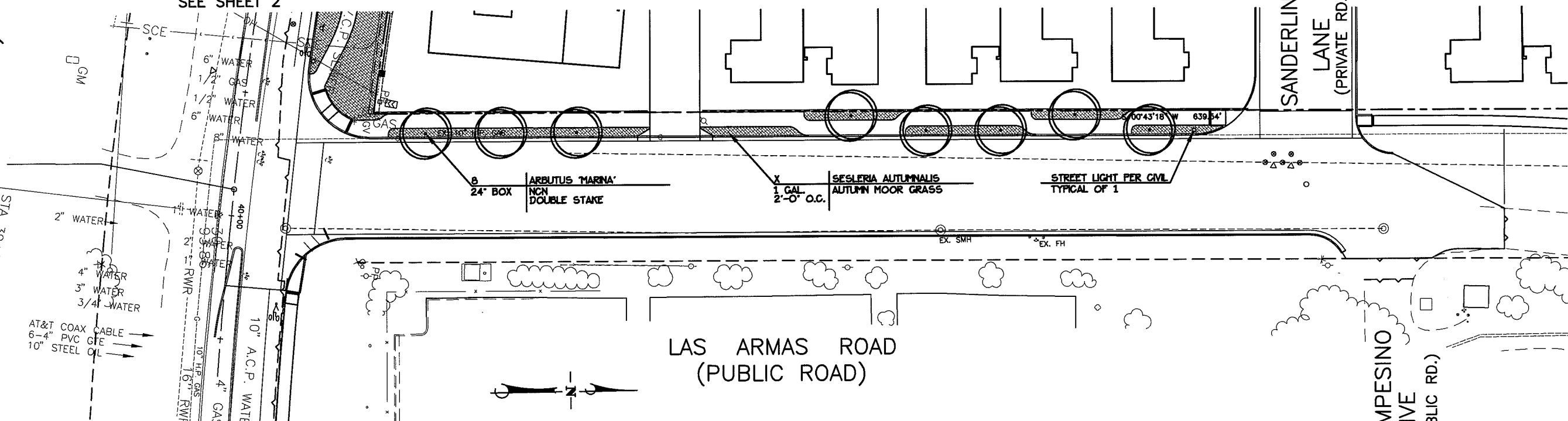
PLANTING PLAN  
HOLLISTER AVENUE  
ROAD IMPROVEMENTS  
CITY OF GOLETA, CALIFORNIA

WORK ORDER  
W.O. 0331  
SHEET  
1 OF 4  
FILE#



HOLLISTER AVENUE  
(PUBLIC RD.)

SEE SHEET 2



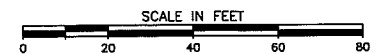
LAS ARMAS ROAD  
(PUBLIC ROAD)

SANDERLING  
LANE  
(PRIVATE RD.)

CAMPESINO  
DRIVE  
(PUBLIC RD.)



DATE SIGNED \_\_\_\_\_



THE OFFICE OF  
KATIE O'REILLY ROGERS  
I N C  
LANDSCAPE ARCHITECTURE  
114 EAST DE LA GUERRA RD. SANTA BARBARA, CALIFORNIA 93101  
TEL: 805-963-1057 WWW.KARROGERS.COM

DIGALERT  
DIAL TOLL FREE  
1-800-227-2800  
BE ALERT AND SAFE  
BEFORE YOU DIG  
UNDERGROUND SERVICE ALERT OF BURIED UTILITIES  
SOUND OF NOISE

REFERENCES:  
DRAWING FILE: 0331ARMAS.DWG  
DATA FILE:  
PROJECT FILE:  
VIEW NAME: PLOT1.MPLAN1.MPROF1  
XREF NAME(S): 0331XSTE.DWG, 0331XTPO.DWG  
0331ARMAS.DWG 010/30/10 01:04:47 PM PDT

GAS SYSTEM APPROVED BY  
SOUTHERN CALIFORNIA GAS CO.  
REVIEWED BY  
VERIZON COMMUNICATIONS

REVIEWED BY  
FLOOD CONTROL ENGINEER, SBFCWC  
REVIEWED BY  
SOUTHERN CALIFORNIA EDISON CO.

NO.	DATE	REVISIONS	APPD.

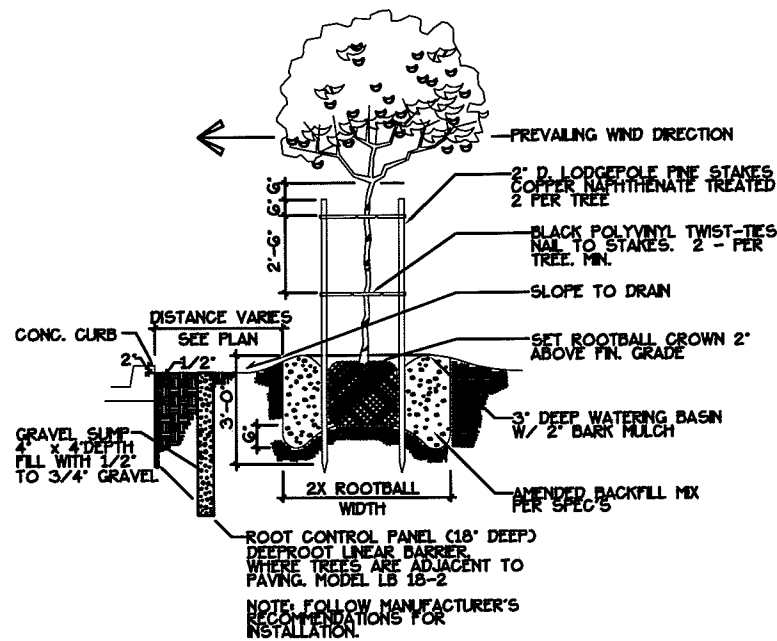
MAC Design Associates  
CIVIL ENGINEERING \* LAND PLANNING \* BRIDGE DESIGN  
1933 CLIFF DRIVE, SUITE 6, SANTA BARBARA, CALIF. 93109 (805) 957-4748

DESIGN: MAC CHECKED: \_\_\_\_\_  
DRAWN: TLA  
MICHAEL A. CACCESE DATE: 10-30-10  
PROJECT ENGINEER  
R.C.E. 26887 (EXP. 3-31-11)

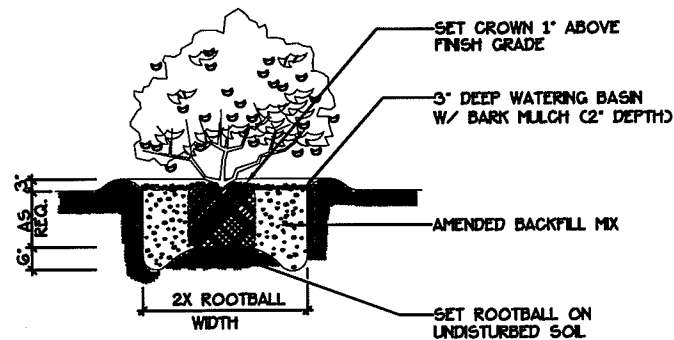
CITY OF GOLETA, CALIFORNIA  
REVIEWED BY: \_\_\_\_\_  
CITY ENGINEER

PLANTING PLAN  
LAS ARMAS ROAD  
ROAD IMPROVEMENTS  
CITY OF GOLETA, CALIFORNIA

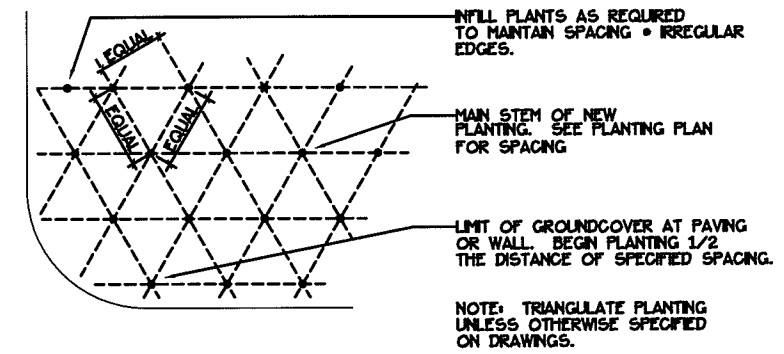
WORK ORDER  
W.O. 0331  
SHEET  
3 OF 4  
FILE#



1 TREE PLANTING WITH LINEAR ROOT CONTROL BARRIER  
N.T.S.



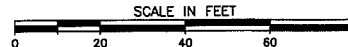
2 SHRUB PLANTING  
N.T.S.



3 PLANT SPACING  
N.T.S.

**DIGALERT**  
ATTENTION:  
ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED ARE IN FEET AND DECIMALS THEREOF. DIMENSIONS SHOWN WITHIN THIS DRAWING ARE TO BE CONSIDERED AS THE FINAL DIMENSIONS AND ARE PRELIMINARY TO BE TO BE ACCURATE AND COMPLETE. THE USER OF THIS DRAWING SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF GOLETA AND THE CALIFORNIA DEPARTMENT OF PUBLIC WORKS. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF GOLETA AND THE CALIFORNIA DEPARTMENT OF PUBLIC WORKS. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF GOLETA AND THE CALIFORNIA DEPARTMENT OF PUBLIC WORKS.

THE OFFICE OF  
KATIE O'REILLY ROGERS  
INC  
LANDSCAPE ARCHITECTURE  
CA 91068  
114 BAY DE LA GUERRA RD SANTA BARBARA, CALIFORNIA 93101  
781.952.8712 WWW.KORINC.COM



REFERENCES:  
DRAWING FILE: 0331HOLLWIDEN.DWG  
DATA FILE:  
PROJECT FILE:  
VIEW NAME: PLOT3.MPLAN3.MPROF3  
XREF NAME(S): 0331XSTE.DWG,0331XTP0.DWG  
0331HOLLWIDEN.DWG 05/01/10 01:04:47 PM PDT

NO.	DATE	REVISIONS	APPD.

**MAC Design Associates**  
CIVIL ENGINEERING • LAND PLANNING • BRIDGE DESIGN  
1633 CLAY DR., SUITE 6, SANTA BARBARA, CALIF. 93101 (805) 967-4748  
DESIGN: MAC CHECKED: \_\_\_\_\_  
DRAWN: TLA  
MICHAEL A. CACCISE DATE: 05-01-10  
PROJECT ENGINEER  
R.C.E. 26887 (EXP. 3-31-11)

REVIEWED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
CITY ENGINEER

**PLAN AND PROFILE  
HOLLISTER AVENUE  
ROAD IMPROVEMENTS**  
CITY OF GOLETA, CALIFORNIA

WORK ORDER  
W.O. 0331  
SHEET  
4 OF 4  
FILE#

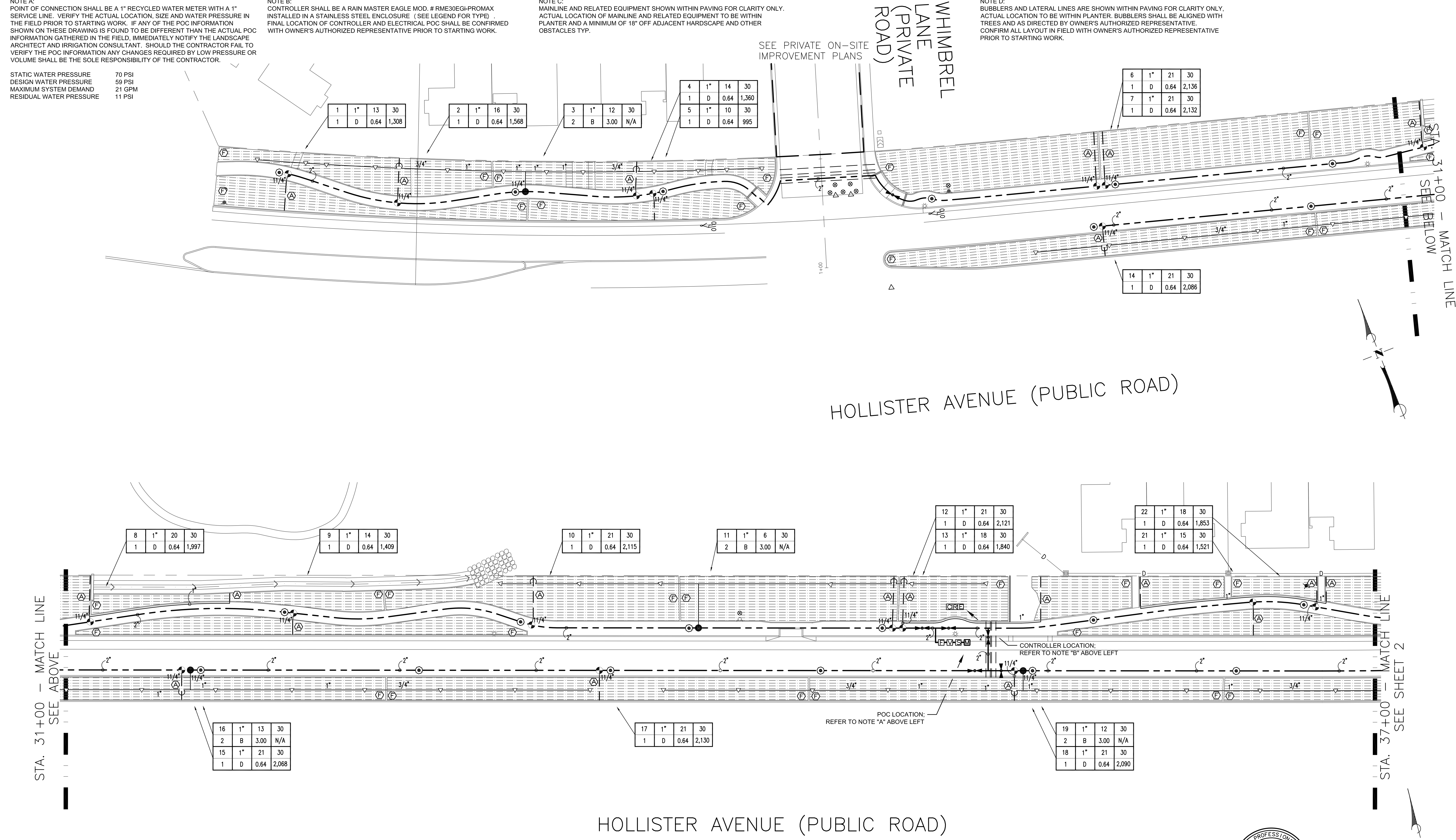
NOTE A:  
POINT OF CONNECTION SHALL BE A 1" RECYCLED WATER METER WITH A 1" SERVICE LINE. VERIFY THE ACTUAL LOCATION, SIZE AND WATER PRESSURE IN THE FIELD PRIOR TO STARTING WORK. IF ANY OF THE POC INFORMATION SHOWN ON THESE DRAWINGS IS FOUND TO BE DIFFERENT THAN THE ACTUAL POC INFORMATION GATHERED IN THE FIELD, IMMEDIATELY NOTIFY THE LANDSCAPE ARCHITECT AND IRRIGATION CONSULTANT. SHOULD THE CONTRACTOR FAIL TO VERIFY THE POC INFORMATION ANY CHANGES REQUIRED BY LOW PRESSURE OR VOLUME SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

STATIC WATER PRESSURE 70 PSI  
DESIGN WATER PRESSURE 59 PSI  
MAXIMUM SYSTEM DEMAND 21 GPM  
RESIDUAL WATER PRESSURE 11 PSI

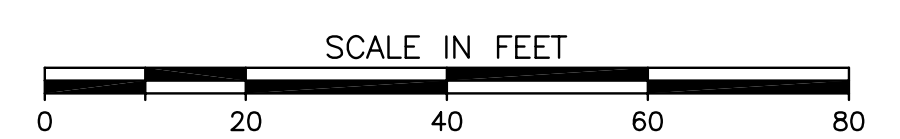
NOTE B:  
CONTROLLER SHALL BE A RAIN MASTER EAGLE MOD. # RME30EGPROMAX INSTALLED IN A STAINLESS STEEL ENCLOSURE (SEE LEGEND FOR TYPE). FINAL LOCATION OF CONTROLLER AND ELECTRICAL POC SHALL BE CONFIRMED WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO STARTING WORK.

NOTE C:  
MAINLINE AND RELATED EQUIPMENT SHOWN WITHIN PAVING FOR CLARITY ONLY. ACTUAL LOCATION OF MAINLINE AND RELATED EQUIPMENT TO BE WITHIN PLANTER AND A MINIMUM OF 18" OFF ADJACENT HARDSCAPE AND OTHER OBSTACLES TYP.

NOTE D:  
BUBBLERS AND LATERAL LINES ARE SHOWN WITHIN PAVING FOR CLARITY ONLY. ACTUAL LOCATION TO BE WITHIN PLANTER. BUBBLERS SHALL BE ALIGNED WITH TREES AND AS DIRECTED BY OWNER'S AUTHORIZED REPRESENTATIVE. CONFIRM ALL LAYOUT IN FIELD WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO STARTING WORK.



**DIGALERT**  
ATTENTION:  
ALL UNDERGROUND UTILITIES AND SUB-STRUCTURES SHOWN HEREIN WERE OBTAINED FROM THE BEST AVAILABLE SOURCES AND ARE PREPARED TO BE TO BE ACCURATE AND COMPLETE, BUT SINCE THE INFORMATION HAS OBTAINED FROM OTHERS, THE OFFICE OF MAC DESIGN ASSOCIATES CANNOT GUARANTEE THE ACCURACY OF THE INFORMATION. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO VERIFY, LOCATE AND PROTECT ALL UTILITIES AND SUBSTRUCTURES SHOWN OR NOT SHOWN.  
DIAL TOLL FREE  
1-800-227-2600  
AT LEAST TWO DAYS BEFORE YOU DIG  
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA



I HAVE COMPILED WITH THE CRITERIA OF THE ORDINANCE AND APPLIED THEM ACCORDINGLY FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN

12SA02DS10  
sweeney + associates  
IRRIGATION DESIGN AND CONSULTING  
California  
38730 Sky Canyon Drive, Suite 100  
Murrieta, CA 92563  
951.461.6830 p ? 951.461.6850 f  
emil@sweeneyassoc.com  
www.sweeneyassoc.com  
Murrieta, California ? Austin, Texas ? Ft. Lauderdale, Florida



REFERENCES:  
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DATA FILE:  
PROJECT FILE:  
VIEW NAME: PPL0T2,MPLAN2,MPROF2  
XREF NAME(S): 0331XSTE.DWG,0331XTPO.DWG  
0331HOLWIDEN.DWG 06/01/10 01:04:47 PM PDT

GAS SYSTEM APPROVED BY \_\_\_\_\_ DATE \_\_\_\_\_  
SOUTHERN CALIFORNIA GAS CO.  
REVIEWED BY \_\_\_\_\_ DATE \_\_\_\_\_  
VERIZON COMMUNICATIONS

REVIEWED BY \_\_\_\_\_ DATE \_\_\_\_\_  
FLOOD CONTROL ENGINEER, SBCFCWCD  
REVIEWED BY \_\_\_\_\_ DATE \_\_\_\_\_  
SOUTHERN CALIFORNIA EDISON CO.

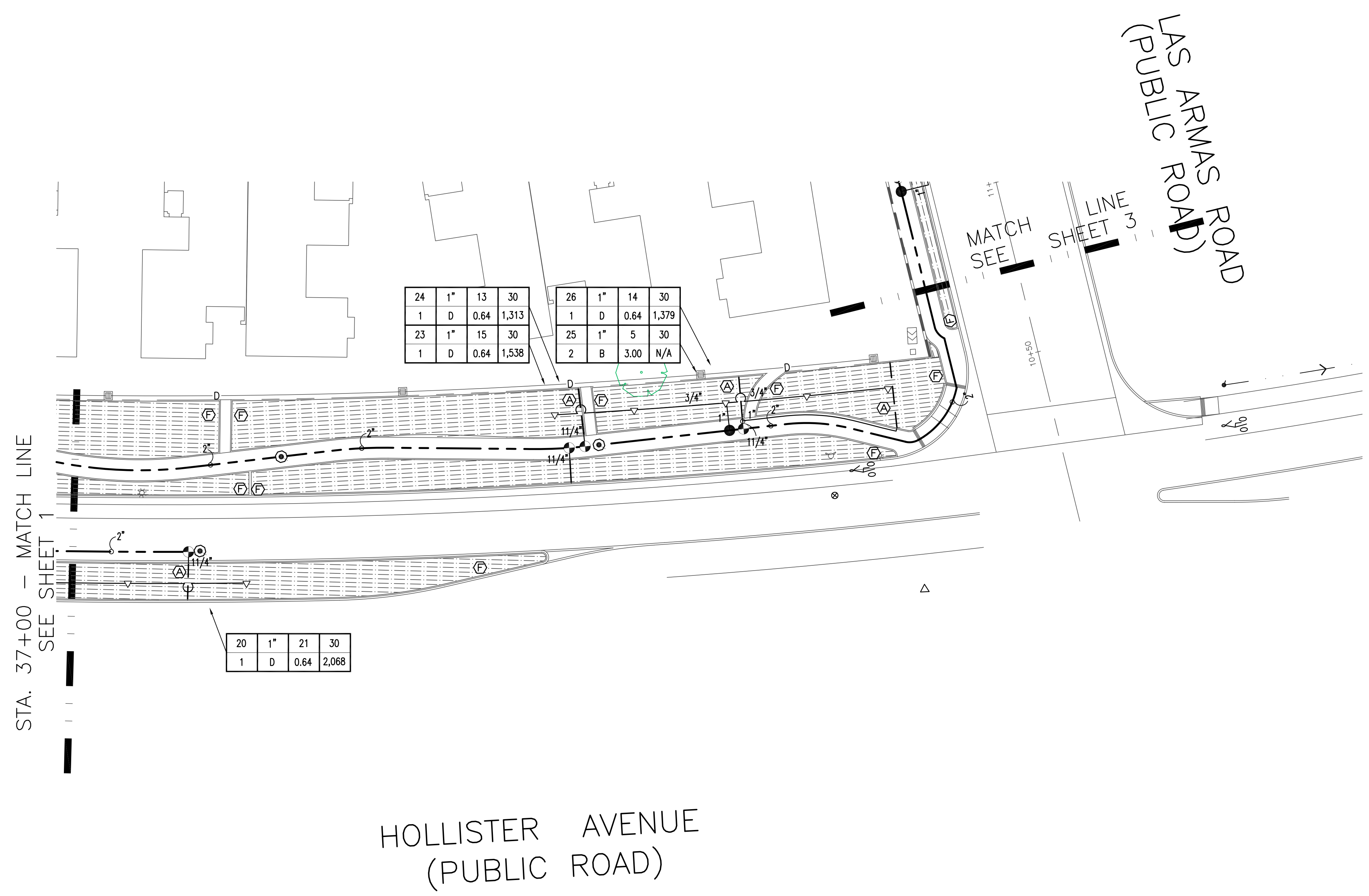
NO.	DATE	REVISIONS	APPD.

DESIGN MAC CHECKED \_\_\_\_\_  
DRAWN TLA  
MAC Design Associates  
CIVIL ENGINEERING • LAND PLANNING • BRIDGE DESIGN  
1833 CLIFF DRIVE, SUITE 6, SANTA BARBARA, CALIF. 93109 (805) 957-4748  
MICHAEL A. CACCESSE DATE: 06-01-10  
PROJECT ENGINEER  
R.C.E. 26887 (EXP. 3-31-11)

REVIEWED BY: \_\_\_\_\_ DATE \_\_\_\_\_  
CITY ENGINEER

IRRIGATION PLAN  
HOLLISTER AVENUE  
ROAD IMPROVEMENTS  
CITY OF GOLETA, CALIFORNIA

WORK ORDER W.O. 0331  
SHEET 1 OF 6  
FILE#



24	1"	13	30
1	D	0.64	1,313
23	1"	15	30
1	D	0.64	1,538

26	1"	14	30
1	D	0.64	1,379
25	1"	5	30
2	B	3.00	N/A

20	1"	21	30
1	D	0.64	2,068

HOLLISTER AVENUE  
(PUBLIC ROAD)

LAS ARMAS ROAD  
(PUBLIC ROAD)

STA. 37+00 - MATCH LINE  
SEE SHEET 1

MATCH SEE SHEET 3

NOTE A:  
MAINLINE AND RELATED EQUIPMENT SHOWN WITHIN PAVING FOR CLARITY ONLY. ACTUAL LOCATION OF MAINLINE AND RELATED EQUIPMENT TO BE WITHIN PLANTER AND A MINIMUM OF 18" OFF ADJACENT HARDSCAPE AND OTHER OBSTACLES TYP.

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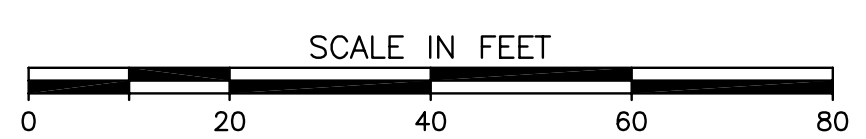


DATE SIGNED \_\_\_\_\_

I HAVE COMPILED WITH THE CRITERIA OF THE ORDINANCE AND APPLIED THEM ACCORDINGLY FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN

12SA02DS10  
sweeney + associa  
IRRIGATION DESIGN AND CONSULTING  
California  
38730 Sky Canyon Drive, Suite 200  
Murrieta, CA 92563  
951.461.6830 p ? 951.461.6850 f  
email@sweeneyassoc.com  
www.sweeneyassoc.com  
Murrieta, California ? Austin, Texas ? Ft. Lauderdale

**DIGALERT**  
ATTENTION:  
ALL UNDERGROUND UTILITIES AND SUB-STRUCTURES SHOWN HEREON WERE OBTAINED FROM THE BEST AVAILABLE SOURCES AND ARE PRESENTED TO BE TO BE ACCURATE AND COMPLETE. BUT SINCE THE INFORMATION WAS OBTAINED FROM OTHERS, THE OFFICE OF MAC DESIGN ASSOCIATES CANNOT GUARANTEE THE INFORMATION AS BEING ACCURATE AND COMPLETE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY, LOCATE AND PRINTED ALL UTILITIES AND SUBSTRUCTURES SHOWN OR NOT SHOWN.  
DIAL TOLL FREE  
1-800-227-2600  
AT LEAST TWO DAYS BEFORE YOU DIG  
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA



REFERENCES:

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	0331HOLWIDEN.DWG 06/01/10 01:04:47 PM PDT

GAS SYSTEM APPROVED BY	DATE
SOUTHERN CALIFORNIA GAS CO.	
REVIEWED BY	DATE
VERIZON COMMUNICATIONS	

REVIEWED BY	DATE
FLOOD CONTROL ENGINEER, SBCFCWCD	
REVIEWED BY	DATE
SOUTHERN CALIFORNIA EDISON CO.	

NO.	DATE	REVISIONS	APPD.

MAC Design Associates  
CIVIL ENGINEERING • LAND PLANNING • BRIDGE DESIGN  
1833 CLIFF DRIVE, SUITE 6, SANTA BARBARA, CALIF. 93109 (805) 957-4748

DESIGN: MAC CHECKED: \_\_\_\_\_  
DRAWN: TLA  
MICHAEL A. CACCESE DATE: 06-01-10  
PROJECT ENGINEER  
R.C.E. 26887 (EXP. 3-31-11)

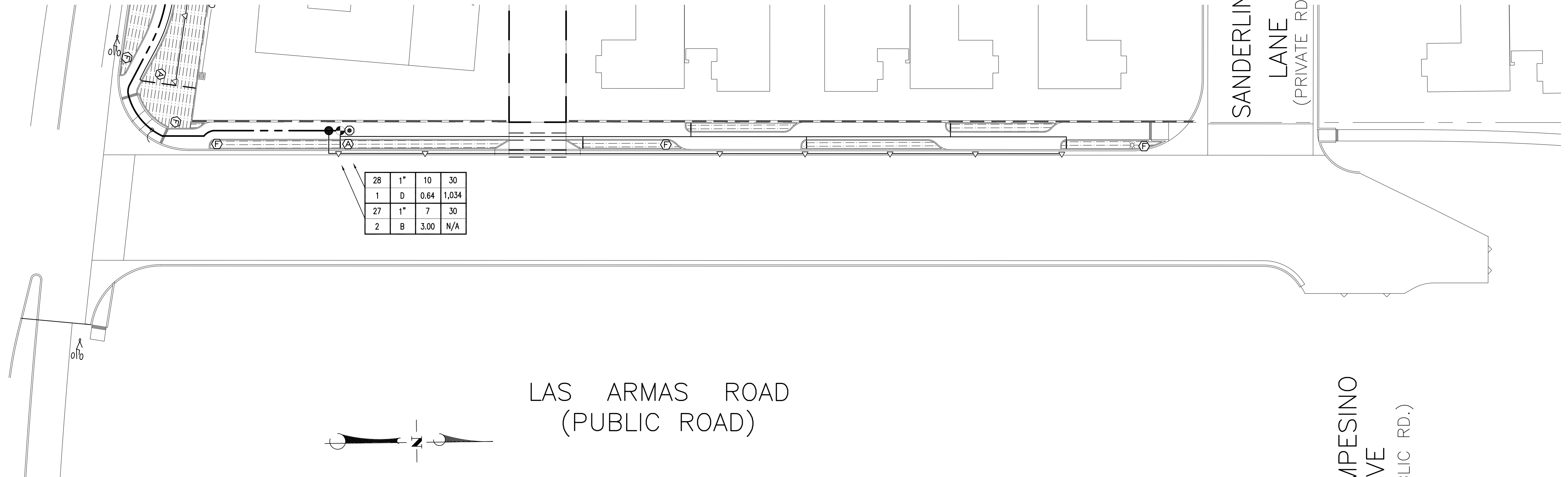
REVIEWED BY:	DATE
CITY ENGINEER	

PLANTING PLAN  
HOLLISTER AVENUE  
ROAD IMPROVEMENTS  
CITY OF GOLETA, CALIFORNIA

WORK ORDER	W.O. 0331
SHEET	2 OF 6
FILE#	

HOLLISTER AVENUE  
(PUBLIC RD.)

SEE SHEET 2

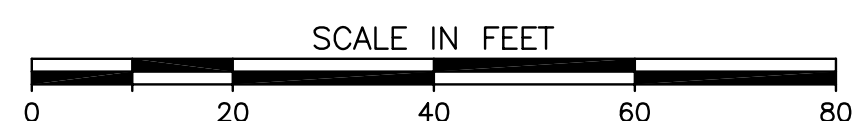
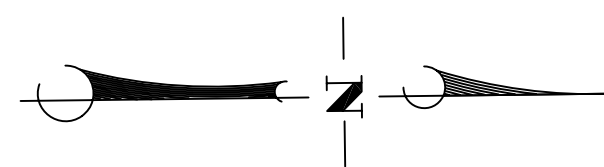


28	1"	10	30
1	D	0.64	1,034
27	1"	7	30
2	B	3.00	N/A

LAS ARMAS ROAD  
(PUBLIC ROAD)

SANDERLING  
LANE  
(PRIVATE RD.)

CAMPESINO  
DRIVE  
(PUBLIC RD.)



NOTE A:  
MAINLINE AND RELATED EQUIPMENT SHOWN WITHIN PAVING FOR CLARITY ONLY.  
ACTUAL LOCATION OF MAINLINE AND RELATED EQUIPMENT TO BE WITHIN  
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CONFIRM ALL LAYOUT IN FIELD WITH OWNER'S AUTHORIZED REPRESENTATIVE  
PRIOR TO STARTING WORK.



DATE SIGNED \_\_\_\_\_

**DIG ALERT**  
DIAL TOLL FREE  
1-800-227-2600  
AT LEAST TWO DAYS  
BEFORE YOU DIG  
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

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STRUCTURES SHOWN HEREON WERE OBTAIN-  
ED FROM THE BEST AVAILABLE SOURCES  
AND ARE PROVIDED TO BE TO BE ACCURATE  
AND COMPLETE, BUT SINCE THE INFORMATION  
AND INFORMATION IS BEING ACCURATE AND  
COMPLETE. IT SHALL BE THE CONTRACTOR'S  
RESPONSIBILITY TO VERIFY LOCAL AND  
FIELD ALL UTILITIES AND SUBSTRUCTURES  
SHOWN OR NOT SHOWN.

I HAVE COMPILED WITH THE CRITERIA OF THE ORDINANCE AND APPLIED THEM  
ACCORDINGLY FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN  
PLAN

12SA02DS10  
sweeney + associa  
IRRIGATION DESIGN AND CONSULTING  
California  
38730 Sky Canyon Drive, Suite  
Murrieta, CA 92563  
951.461.6830 p ? 951.461.6850 f  
email@sweeneyassoc.com  
www.sweeneyassoc.com  
Murrieta, California ? Austin, Texas ? Ft. Lauderdale

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GAS SYSTEM APPROVED BY	REVIEWED BY	NO.	DATE	REVISIONS	APPD.
SOUTHERN CALIFORNIA GAS CO.	FLOOD CONTROL ENGINEER, SBCFCWCD				
REVIEWED BY	REVIEWED BY				
VERIZON COMMUNICATIONS	SOUTHERN CALIFORNIA EDISON CO.				

MAC Design Associates  
CIVIL ENGINEERING • LAND PLANNING • BRIDGE DESIGN  
1833 CLIFF DRIVE, SUITE 6, SANTA BARBARA, CALIF. 93109 (805) 957-4748

DESIGN: MAC CHECKED: \_\_\_\_\_  
DRAWN: TLA \_\_\_\_\_  
MICHAEL A. CACCESE DATE: 10-30-10  
PROJECT ENGINEER  
R.C.E. 26887 (EXP. 3-31-11)

REVIEWED BY: \_\_\_\_\_  
CITY ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

IRRIGATION PLAN  
LAS ARMAS ROAD  
ROAD IMPROVEMENTS  
CITY OF GOLETA, CALIFORNIA

WORK ORDER	W.O. 0331
SHEET	3 OF 6
FILE#	

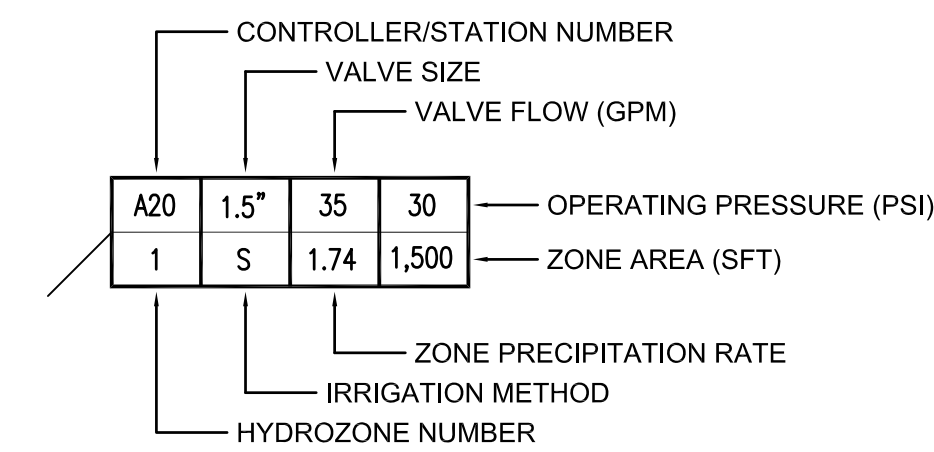
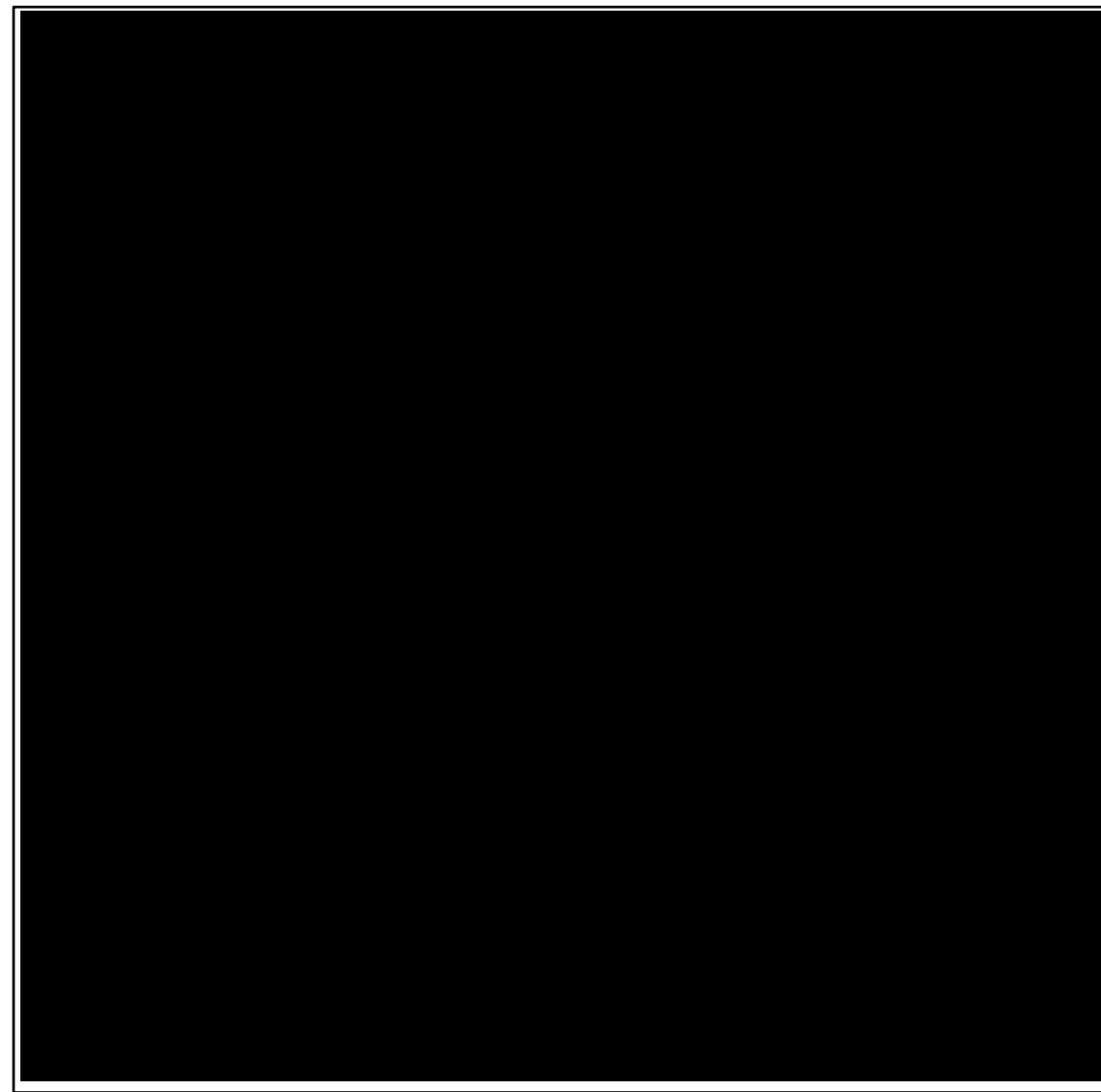
# IRRIGATION NOTES

- ALL LOCAL MUNICIPAL AND STATE LAWS, RULES AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THIS WORK ARE HEREBY INCORPORATED INTO AND MADE A PART OF THESE SPECIFICATIONS AND THEIR PROVISIONS SHALL BE CARRIED OUT BY THE CONTRACTOR.
- THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES AND SERVICES BEFORE COMMENCING WORK. THE LOCATIONS OF UTILITIES, STRUCTURES AND SERVICES SHOWN IN THESE PLANS ARE APPROXIMATE ONLY. ANY DISCREPANCIES BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE.
- THE CONTRACTOR SHALL OBTAIN THE PERTINENT ENGINEERING OR ARCHITECTURAL PLANS BEFORE BEGINNING WORK.
- THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS REQUIRED TO PERFORM THE WORK INDICATED HEREIN BEFORE BEGINNING WORK.
- THIS DESIGN IS DIAGRAMMATIC. ALL EQUIPMENT SHOWN IN PAVED AREAS IS FOR DESIGN CLARITY ONLY AND IS TO BE INSTALLED WITHIN PLANTING AREAS.
- THE CONTRACTOR SHALL NOT WILLFULLY INSTALL ANY EQUIPMENT AS SHOWN ON THE PLANS WHEN IT IS OBVIOUS IN THE FIELD THAT UNKNOWN CONDITIONS EXIST THAT WERE NOT EVIDENT AT THE TIME THESE PLANS WERE PREPARED. ANY SUCH CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE PRIOR TO ANY WORK OR THE IRRIGATION CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR ANY FIELD CHANGES DEEMED NECESSARY BY THE OWNER.
- INSTALL ALL EQUIPMENT AS SHOWN IN THE DETAILS AND SPECIFICATIONS. CONTRACTOR SHALL BE RESPONSIBLE TO COMPLY WITH LOCAL CITY, COUNTY AND STATE REQUIREMENTS FOR BOTH EQUIPMENT AND INSTALLATION.
- ACTUAL LOCATION FOR THE INSTALLATION OF THE BACKFLOW PREVENTER AND THE AUTOMATIC CONTROLLER IS TO BE DETERMINED IN THE FIELD BY THE OWNER'S AUTHORIZED REPRESENTATIVE.
- CONTRACTOR IS TO PROVIDE AN ADDITIONAL PILOT WIRE FROM CONTROLLER ALONG ENTIRETY OF MAIN LINE TO THE LAST RCV ON EACH AND EVERY LEG OF MAIN LINE. LABEL SPARE WIRES AT BOTH ENDS.
- ALL PIPE UNDER PAVED AREAS TO BE INSTALLED IN SLEEVING TWICE THE DIAMETER OF THE PIPE CARRIED. SEE LEGEND FOR TYPE. ALL WIRE UNDER PAVED AREAS TO BE INSTALLED IN A SCH. 40 SLEEVE THE SIZE REQUIRED TO EASILY PULL WIRE THROUGH. ALL SLEEVES TO BE INSTALLED WITH A MINIMUM DEPTH AS SHOWN ON THE SLEEVING DETAILS. SLEEVES TO EXTEND AT LEAST 12" PAST THE EDGE OF THE PAVING.
- ALL QUICK COUPLER AND REMOTE CONTROL VALVES TO BE INSTALLED IN SHRUB OR GROUND COVER AREAS WHERE POSSIBLE. ALL QUICK COUPLER AND REMOTE CONTROL VALVES TO BE INSTALLED AS SHOWN ON THE INSTALLATION DETAILS. INSTALL ALL QUICK COUPLER AND REMOTE CONTROL VALVES WITHIN 18" OF HARDSCAPE.
- ALL HEADS ARE TO BE INSTALLED WITH THE NOZZLE, SCREEN AND ARCS SHOWN ON THE PLANS. ALL HEADS ARE TO BE ADJUSTED TO PREVENT OVERSPRAY ONTO BUILDINGS, WALLS, FENCES AND HARDSCAPE. THIS INCLUDES, BUT NOT LIMITED TO, ADJUSTMENT OF DIFFUSER PIN OR ADJUSTMENT SCREW, REPLACEMENT OF PRESSURE COMPENSATING SCREENS, REPLACEMENT OF NOZZLES WITH MORE APPROPRIATE RADIUS UNITS AND THE REPLACEMENT OF NOZZLES WITH ADJUSTABLE ARC UNITS.
- CONTRACTOR SHALL INSTALL ADDITIONAL CHECK VALVES TO HEADS AND LATERALS AS REQUIRED TO PREVENT LOW HEAD DRAINAGE.
- THE CONTRACTOR SHALL USE PROPER GROUNDING TECHNIQUES FOR GROUNDING THE CONTROLLER AND RELATED EQUIPMENT PER MANUFACTURERS SPECIFICATIONS. SWEENEY AND ASSOCIATES RECOMMENDS MEASURING FOR PROPER GROUND AT LEAST ONCE ANNUALLY, AND NECESSARY ADJUSTMENTS MADE TO COMPLY WITH MANUFACTURER SPECIFICATIONS.

# IRRIGATION MATERIAL LEGEND

SYMBOL	MANUFACT.	MODEL NO. / DESCRIPTION	GPM	PSI	RADIUS	PR (TRI.)	DETAIL
▽	HUNTER	PROS-06-PRS30-CV-R-PCN-50 POP-UP BUBBLER HEAD, EACH SYMBOL REPRESENTS TWO BUBBLERS PER TREE, PLACE BUBBLERS AT EDGE OF ROOTBALL ON OPPOSITE SIDES OF TREE TYPICAL.	.50 (1.0)	30	N/A	N/A	A
Ⓜ	P.O.C.	1" RECLAIMED METER WITH 1" SERVICE LINE, VERIFY SIZE, LOCATION AND STATIC WATER PRESSURE IN FIELD					N/A
Ⓢ	HAYWARD	MODEL #72 BASKET STRAINER 1" SIZE W/ FLANGED CONNECTIONS AND 80 MESH FILTER ELEMENT					B
Ⓜ	SUPERIOR	MODEL 3000 1" NORMALLY CLOSED, BRASS MASTER CONTROL VALVE					C
Ⓜ	RAIN MASTER	FS-B100 FLOW SENSOR, INSTALL PER MANUFACTURER'S RECOMMENDATIONS AND WIRE TO CONTROLLER					D
Ⓜ	LASCO	SLO-CLOSE SCH. 80 PVC TRUE-UNION BALL VALVE WITH SOLVENT WELD CONNECTIONS, LINE SIZE					E
Ⓜ	RAIN BIRD	33 DNP (3/4") QUICK COUPLER VALVE, INSTALL WITHIN 10" ROUND VALVE BOX					F
●	HUNTER	ICV-101G-AS-R (1") SERIES PRESSURE REGULATED, PLASTIC REMOTE CONTROL VALVE, SIZE AS SHOWN					G
Ⓜ	HUNTER	ICV-1X1G-FS-R (1", 1 1/2") SERIES DRIP REMOTE CONTROL VALVE ASSEMBLY, SIZE AS SHOWN, INSTALL AG PRODUCTS 1" #4E-1AN-150, 1" MPT W/ MHT FLUSH & CAP 150 MESH WYE FILTER AND SENNINGER PRESSURE REGULATOR PMR-40MF FOR DEMANDS LESS THAN 18 GPM, AG PRODUCTS 1 1/2" SIZE #4E-11/2-150, 1 1/2" MPT W/ MPT FLUSH AND BALL VALVE, 150 MESH WYE FILTER AND SENNINGER PR-40HF PRESSURE REGULATOR FOR DEMANDS GREATER THAN 18 GPM. INSTALL BOTH ON THE DOWNSTREAM SIDE OF EACH DRIP RCV					H
Ⓜ	RAIN MASTER	RME30EG-PROMAX EAGLE CONTROLLER WITH INTERNET COMMUNICATIONS CARD (i CENTRAL) SIZE AS SHOWN, INSTALLED WITHIN STAINLESS STEEL ENCLOSURE. (SEE BELOW FOR TYPE)					I,J
NO SYMBOL	V.I.T.	SB-16SS STRONGBOX STAINLESS STEEL TOP-ENTRY CONTROLLER ENCLOSURE WITH CSA SUB-ASSEMBLY, RGVRS AND QP-16					I
Ⓜ	HUNTER	MINI-CLIK RAIN SENSOR, MOUNT TO REAR OF ENCLOSURE AND WIRE TO CONTROLLER					I
Ⓜ	N/A	120 VOLT ELECTRICAL POWER, PROVIDED BY ELECTRICIAN, VERIFY ACTUAL LOCATION IN FIELD					N/A
Ⓜ	TORO	RGP-2-12-E DL2000 DRIP TUBING W/ .5 GPH EMITTERS 12" ON CENTER, INSTALL TUBING ROWS A MAXIMUM OF 16" APART IN SHRUB AREAS. ALL TUBING SHALL BE INSTALLED 4" BELOW FINISHED SOIL GRADE W/ 9" WIRE STAKES FIVE (5) FEET ON CENTER; VERIFY THE LAYOUT AND SPACING IN THE FIELD PRIOR TO STARTING WORK					K,L,M
---	JAIN IRRIGATION	PVC HEADER CONNECTION TO DRIP TUBING WITH "SPIN-LOC" FITTINGS AND PVC TEE OR ELL FITTINGS					K,L,M
NO SYMBOL	JAIN IRRIGATION	ALL CONNECTIONS BETWEEN DRIP TUBING SHALL BE MADE USING "SPIN-LOC" FITTINGS					K,L,M
Ⓜ	TORO	PROVIDE A FCH-H-FIPT AUTOMATIC FLUSH VALVE AT END/MIDDLE OF DRIPLINE 3/4" PCV FLUSH MANIFOLD LINE, INSTALL FLUSH VALVE INSIDE A SEPERATE VALVE BOX, ONE AT THE END OF TUBING RUNS IN EACH DIRECTION. INSTALL MIN. ONE FLUSH VALVE PER 1000' OF TUBING IN EACH DIRECTION ON DRIPLINE FLUSH MANIFOLD. INSTALL 18" FROM PAVING. INSTALL ALL FLUSH EQUIPMENT PER MANUFACTURER'S SPECIFICATIONS.					N
Ⓜ	TORO	YD-500-34 AIR/VACUUM RELIEF VALVE INSTALLED WITH A FT-050 COMBINATION TEE AND A 3/4" X 1/2" REDUCER BUSHING, INSTALL AIR RELIEF ASSEMBLY INSIDE A 6" ROUND VALVE BOX AT THE HIGH POINT OF EACH PLANTER, MIN. 1 ARV PER 500' OF DRIPLINE. USING AIR RELIEF LATERAL, CONNECT AIR RELIEF VALVE TO ALL DRIPLINE LATERALS WITHIN THE ELEVATED AREA, MULTIPLE ARV'S SHALL BE REQUIRED PER RCV WITHIN UNDLATING AREAS, VERIFY QUANTITY PRIOR TO STARTING WORK, INSTALL VALVE BOX 18" FROM PAVING AND AT HIGH POINTS OF PLANTER AREA. INSTALL ALL AIR VACUUM RELIEF EQUIPMENT PER MANUFACTURER'S SPECIFICATIONS.					O
---	AS APPROVED	PURPLE PVC PIPE 3/4" - 1 1/2" SCH. 40 AS LATERAL LINES 12" BELOW GRADE					P
---	AS APPROVED	PURPLE PVC PIPE 2" CL. 315 SOLVENT WELD AS MAINLINES 18" BELOW GRADE					P
---	AS APPROVED	PURPLE PVC PIPE SCH. 40 AS SLEEVING, TWICE THE DIAMETER OF PIPE OR WIRE BUNDLE CARRIED PLACE BELOW ALL PAVING, HARDSCAPE ETC. AND AS DIRECTED BY OWNER'S AUTHORIZED REPRESENTATIVE.					Q
NO SYMBOL	AS APPROVED	IRRIGATION CONTROL WIRE #14UF AWG DIRECT BURIAL (U.L. APPROVED)					P,Q,R
NO SYMBOL	3M	DBY-6 DIRECT BURIAL WATER-PROOF WIRE CONNECTORS FOR USE ON ALL WIRE CONNECTIONS (U.L. APPROVED)					R
NO SYMBOL	CARSON	PURPLE VALVE BOXES, SIZE PER EQUIPMENT LEGEND, WITH T-COVER LIDS AND CAPTIVE BOLT AND LOC-KIT. FOR ROUND FLUSH VALES AND AIR RELIEF VALVES USE MODEL 708, 10" ROUND SHALL BE MODEL 910, 12" STANDARD RECT. SHALL BE MODEL 1419, 12" JUMBO RECT. SHALL BE MODEL 1220, SUPER JUMBO SHALL BE MODEL 1324, AND SUPER JUMBO XL SHALL BE MODEL 1730. VALVE BOXES SHALL HAVE GREEN HDPE BODY AND GREEN LIDS IN TURF, GREEN LIDS IN SHRUB BEDS, AND TAN LIDS IN ROCK MULCH. FOR USE IN NON-VEHICULAR TRAFFIC SITUATIONS ONLY. DO NOT INSTALL IN CONCRETE OR ASPHALT.					N/A
NO SYMBOL	T CHRISTY'S	PURPLE RECLAIMED WATER WARNING TAGS					N/A
NO SYMBOL	AS APPROVED	RECLAIMED WATER SIGNS, INSTALL QUANTITY AND LOCATIONS PER REQUIREMENTS					S

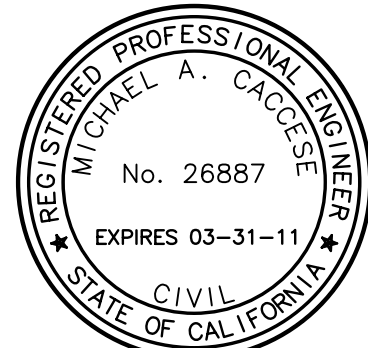
WATER PRESSURE CALCULATIONS			
WATER METER NUMBER	1	WATER METER SIZE	2"
HYDRAULIC GRADE LINE (FT)	N/A	WATER METER ELEVATION (FT)	94
ELEVATION DIFFERENCE (FT)	N/A	STATIC PRESSURE (PSI)	70
REMOTE CONTROL VALVE #	6	REMOTE CONTROL VALVE SIZE	1"
R.C.V. DEMAND (GPM)	21	TOTAL DEMAND (GPM)	21
HIGHEST HEAD SERVED (FT)	107.4	STATIC PRESSURE AT HIGHEST HEAD	N/A
SIZE	DESCRIPTION	FLOW	# PSI LOSS
1"	SERVICE LINE (50 FT OF TYPE K COPPER)	21	1 7.0 PSI
1"	WATER METER (DISC TYPE)	21	2 2.5 PSI
N/A	BACKFLOW PREVENTER	N/A	3 0.0 PSI
1"	BASKET STRAINER	21	4 0.7 PSI
N/A	PRESSURE REGULATOR (WILKINS 500HLR)	N/A	5 0.0 PSI
N/A	BFD ASSEMBLY PIPING (BRASS W/ 4 ELLS)	N/A	6 0.0 PSI
1"	MASTER CONTROL VALVE	21	7 2.7 PSI
1"	FLOW SENSOR	21	8 N/A PSI
2"	ISOLATION VALVES (BALL TYPE)	21	9 1.0 PSI
2"	650 FEET OF MAINLINE: CL. 200 PVC	21	10 2.5 PSI
	FEET OF MAINLINE	N/A	11 0.0 PSI
2"	5 - 90 DEGREE ELBOWS	21	12 0.3 PSI
1"	REMOTE CONTROL VALVE	21	13 3.1 PSI
10%	LATERAL LINE LOSS	N/A	14 3.0 PSI
20%	FITTING LOSS (IN ADDITION TO ELBOWS SHOWN)	N/A	15 0.5 PSI
13.4	ELEVATION CHANGE (P.O.C. TO HIGHEST HEAD)	N/A	16 5.8 PSI
TOTAL SYSTEM PRESSURE LOSS (SUM OF #1 THRU #16)		17	29.2 PSI
PRESSURE REQUIRED AT HEAD		18	30.0 PSI
TOTAL PRESSURE REQUIRED (SUM OF #17 AND #18)		19	59.2 PSI
STATIC WATER PRESSURE (FROM ABOVE)		20	70.0 PSI
RESIDUAL PRESSURE (SUBTRACT #19 FROM #20)		21	10.8 PSI
SET PRV OR MCV AT (#20 PLUS 10 PSI)		22	N/A PSI
PRESSURE BOOST, IF REQUIRED (SET TO ACHIEVE 30 PSI RESIDUAL)		23	N/A PSI



HYDROZONE	HYDROZONE DESCRIPTION
1	SHRUBS IRRIGATED WITH INLINE DRIP
2	TREES IRRIGATED WITH BUBBLER HEADS

IRR METHOD	IRRIGATION METHOD DESCRIPTION
B	POP-UP BUBBLER HEADS
D	SUB-SURFACE DRIP IRRIGATION

IRRIGATION CONTROLLER RUN TIMES																	
POC or Controller	ETo / Month (Inches):	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Total / Avg.			
		2.10	2.50	3.90	5.10	5.70	5.70	5.40	5.40	4.20	3.20	2.80	2.20	48.20			
		0.07	0.09	0.13	0.17	0.18	0.19	0.17	0.17	0.14	0.10	0.09	0.07	0.13			
Irrigation Days / Week:		6	6	6	6	6	6	6	6	6	6	6	6	6			
Plant / Irrig. Type	AKc	Pr Rate	IE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Min./Day/Zone	
				0.40	0.64	0.90	3.3	4.3	6.1	8.3	8.9	9.2	8.5	8.5	6.8		5.0
Shrubs		0.40	0.64	0.90	3.3	4.3	6.1	8.3	8.9	9.2	8.5	8.5	6.8	5.0	4.5	3.4	Min./Day/Zone
Drip		Number of Zones:	22	72.4	95.5	134.5	181.8	196.6	203.2	186.3	186.3	149.7	110.4	99.8	75.9	Total Min./Day	
Trees	0.80	3.00	0.90	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Min./Day/Zone	
				1.4	1.9	2.6	3.5	3.8	3.9	3.6	3.6	2.9	2.1	1.9	1.5		
Bubbler		Number of Zones:	6	8.4	11.1	15.7	21.2	22.9	23.6	21.7	17.4	12.8	11.6	8.8	Total Min./Day		
Total Number of Zones:		28	81	107	150	203	220	227	208	208	167	123	111	85	Total Min./Day		
Total Controller Run Time in Hours:		1.35	1.78	2.50	3.38	3.66	3.78	3.47	3.47	2.79	2.05	1.86	1.41	Total Hrs./Day			
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC				



DATE SIGNED \_\_\_\_\_

REFERENCES:  
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PROJECT FILE:  
VIEW NAME: PLOT1\_MPLAN1\_MPROF1  
XREF NAME(S): 0331XSTE.DWG,0331XTPD.DWG  
0331ARMAS.DWG 010/30/10 01:04:47 PM PDT

GAS SYSTEM APPROVED BY	REVIEWED BY	NO.	DATE	REVISIONS	APPD.
SOUTHERN CALIFORNIA GAS CO.	FLOOD CONTROL ENGINEER, SBCFCWCD				
REVIEWED BY	REVIEWED BY				
VERIZON COMMUNICATIONS	SOUTHERN CALIFORNIA EDISON CO.				

NO.	DATE	REVISIONS	APPD.

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CIVIL ENGINEERING • LAND PLANNING • BRIDGE DESIGN  
1933 CLIFF DRIVE, SUITE 6, SANTA BARBARA, CALIF. 93109 (805) 957-4748



ATTENTION: ALL UNDERGROUND UTILITIES AND SUB-STRUCTURES SHOWN HEREON WERE OBTAINED FROM THE BEST AVAILABLE SOURCES AND ARE PROVIDED TO BE TO THE ACCURACY AND COMPLETE, BUT SINCE THE INFORMATION AND DESIGN ACCURACY CANNOT GUARANTEE, THE INFORMATION IS BEING PROVIDED AS IS. THE CONTRACTOR SHALL BE RESPONSIBLE TO THE LOCAL AND STATE ALL UTILITIES AND SUBSTRUCTURES SHOWN OR NOT SHOWN.

I HAVE COMPILED WITH THE CRITERIA OF THE ORDINANCE AND APPLIED THEM ACCORDINGLY FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN

DESIGN: MAC CHECKED: \_\_\_\_\_  
DRAWN: TLA  
MICHAEL A. CACCESE DATE: 10-30-10  
PROJECT ENGINEER  
R.C.E. 26887 (EXP. 3-31-11)

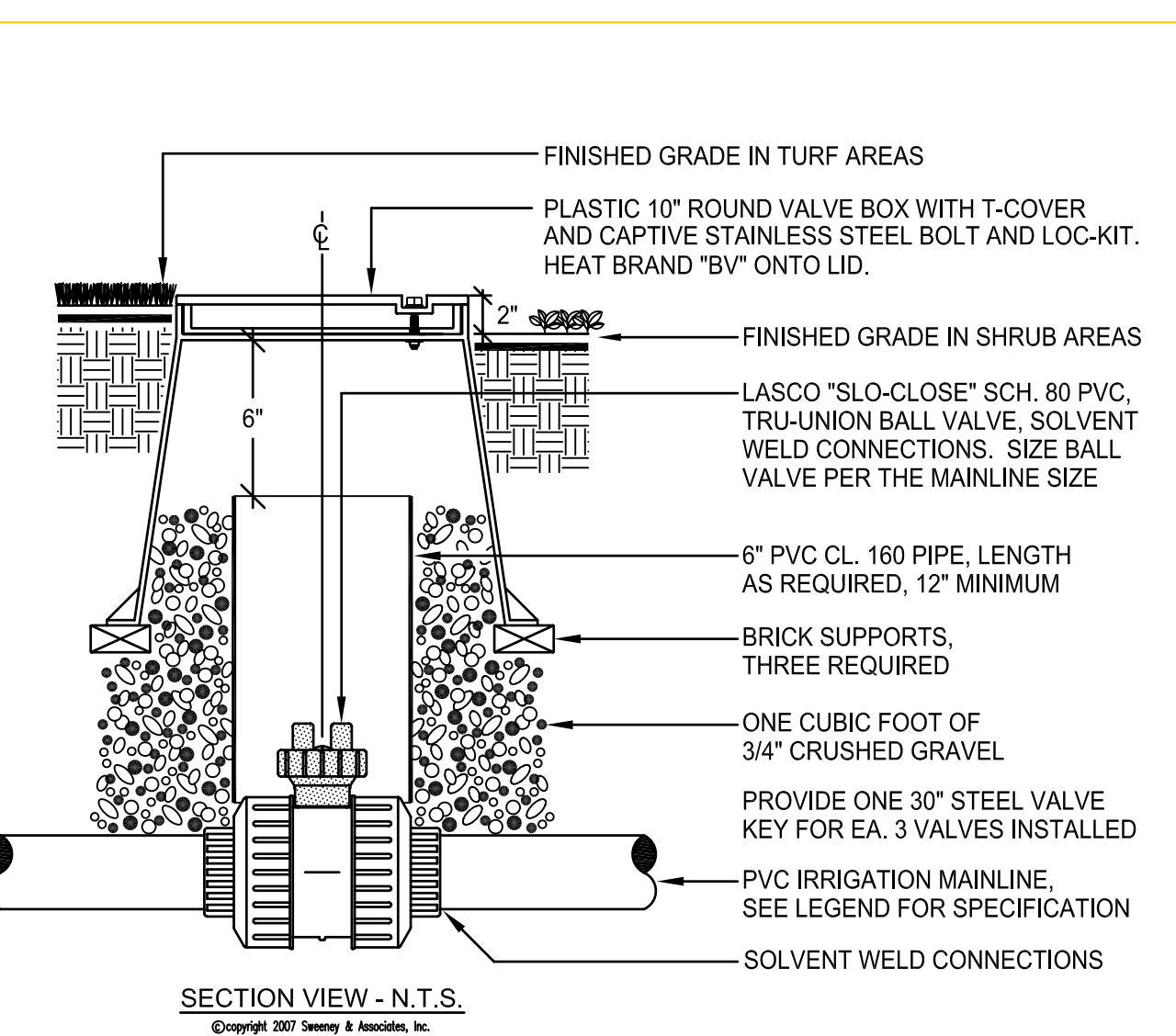
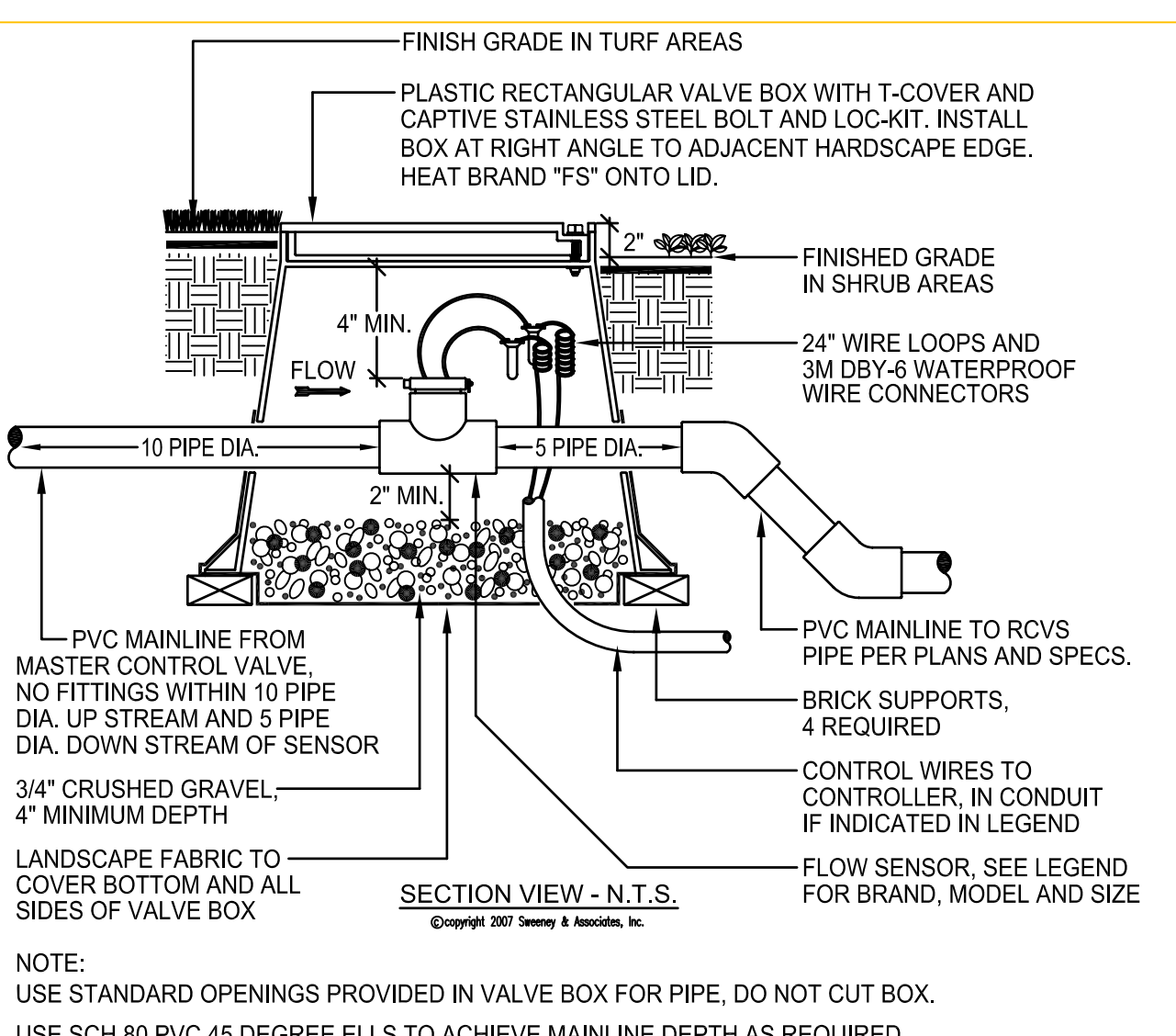
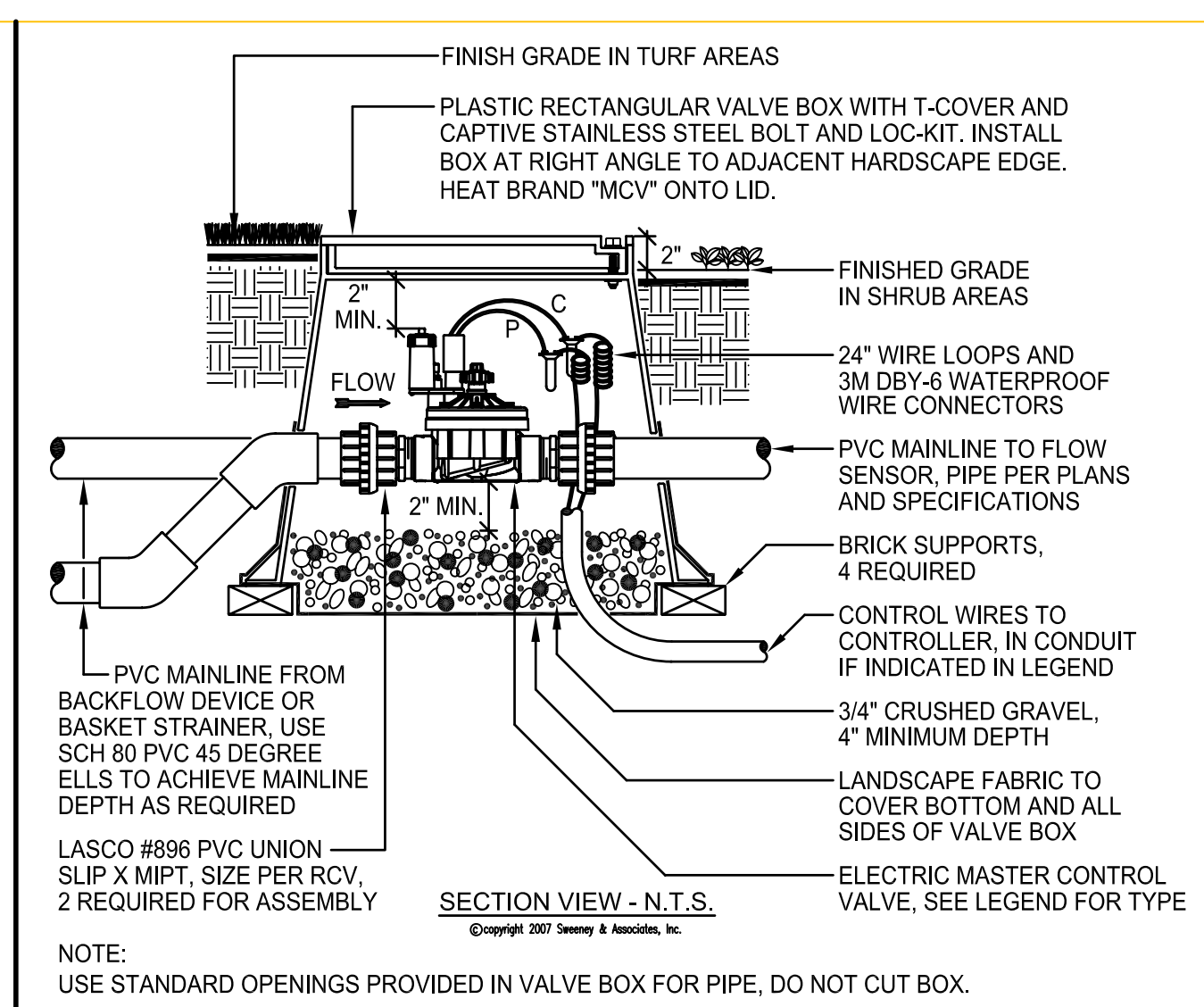
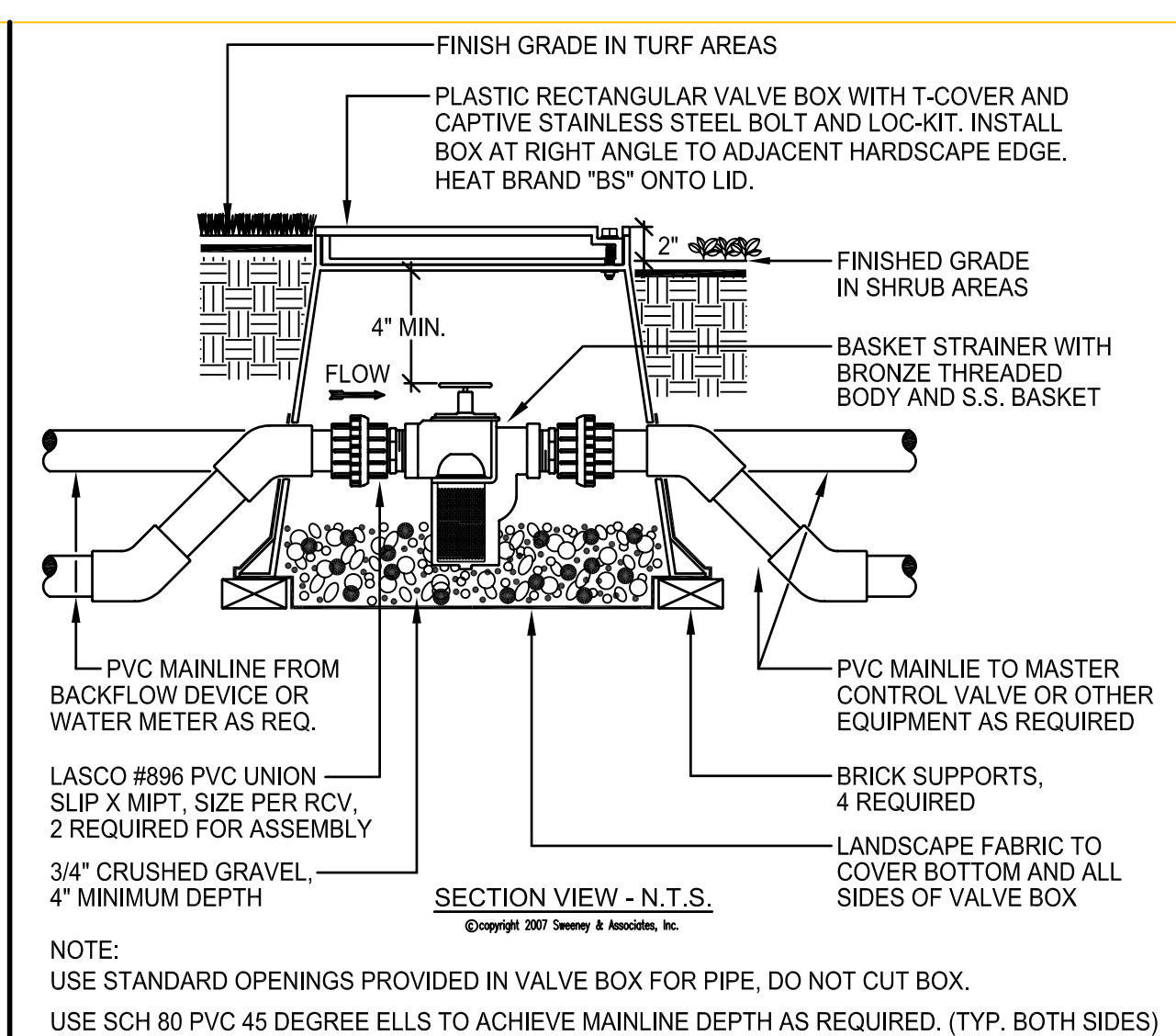
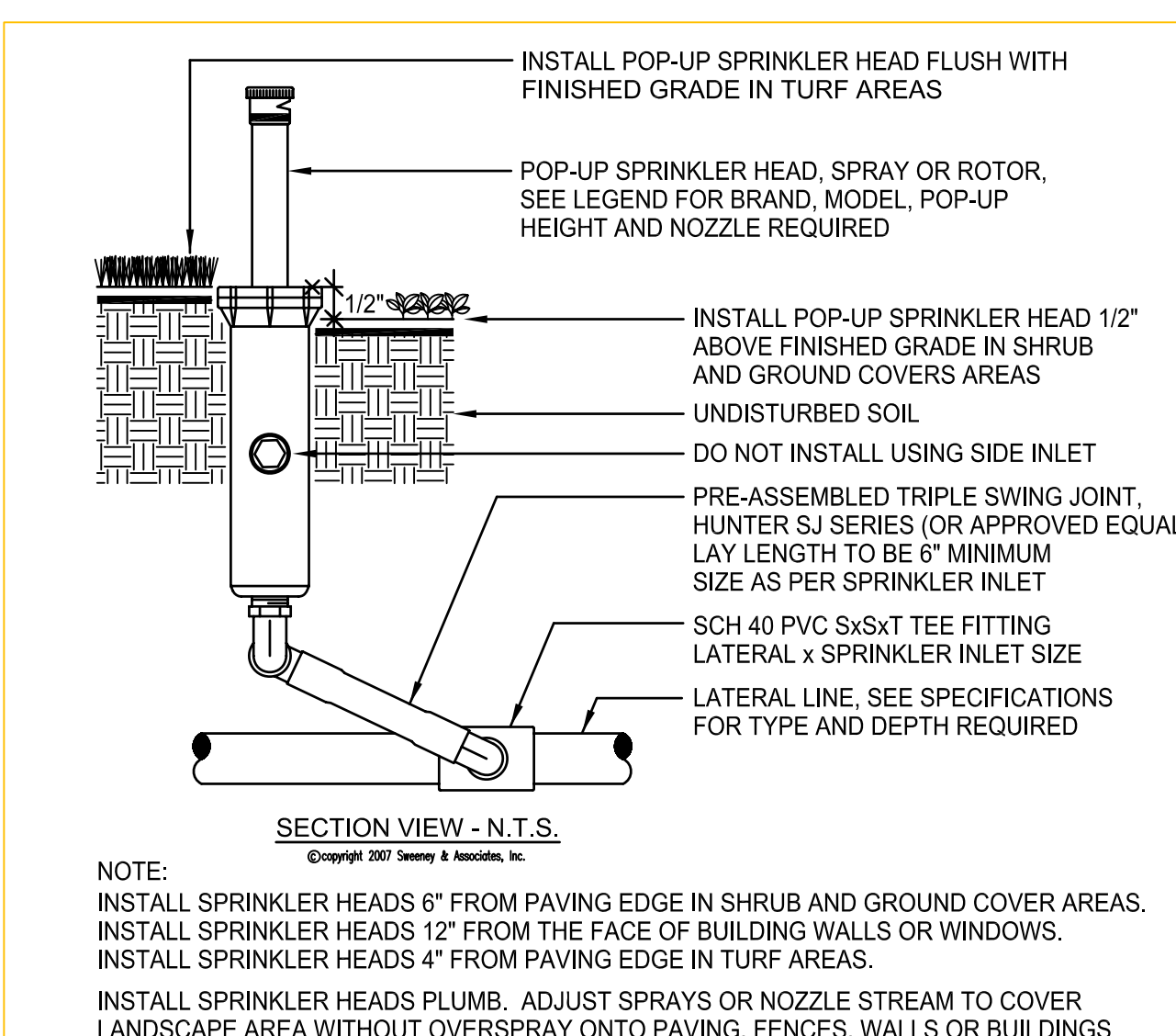
CITY OF GOLETA, CALIFORNIA  
REVIEWED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
CITY ENGINEER

IRRIGATION LEGEND AND NOTES  
HOLLISTER AVENUE & LAS ARMAS ROAD  
ROAD IMPROVEMENTS  
CITY OF GOLETA, CALIFORNIA

WORK ORDER W.O. 0331  
SHEET 4 of 6  
FILE#

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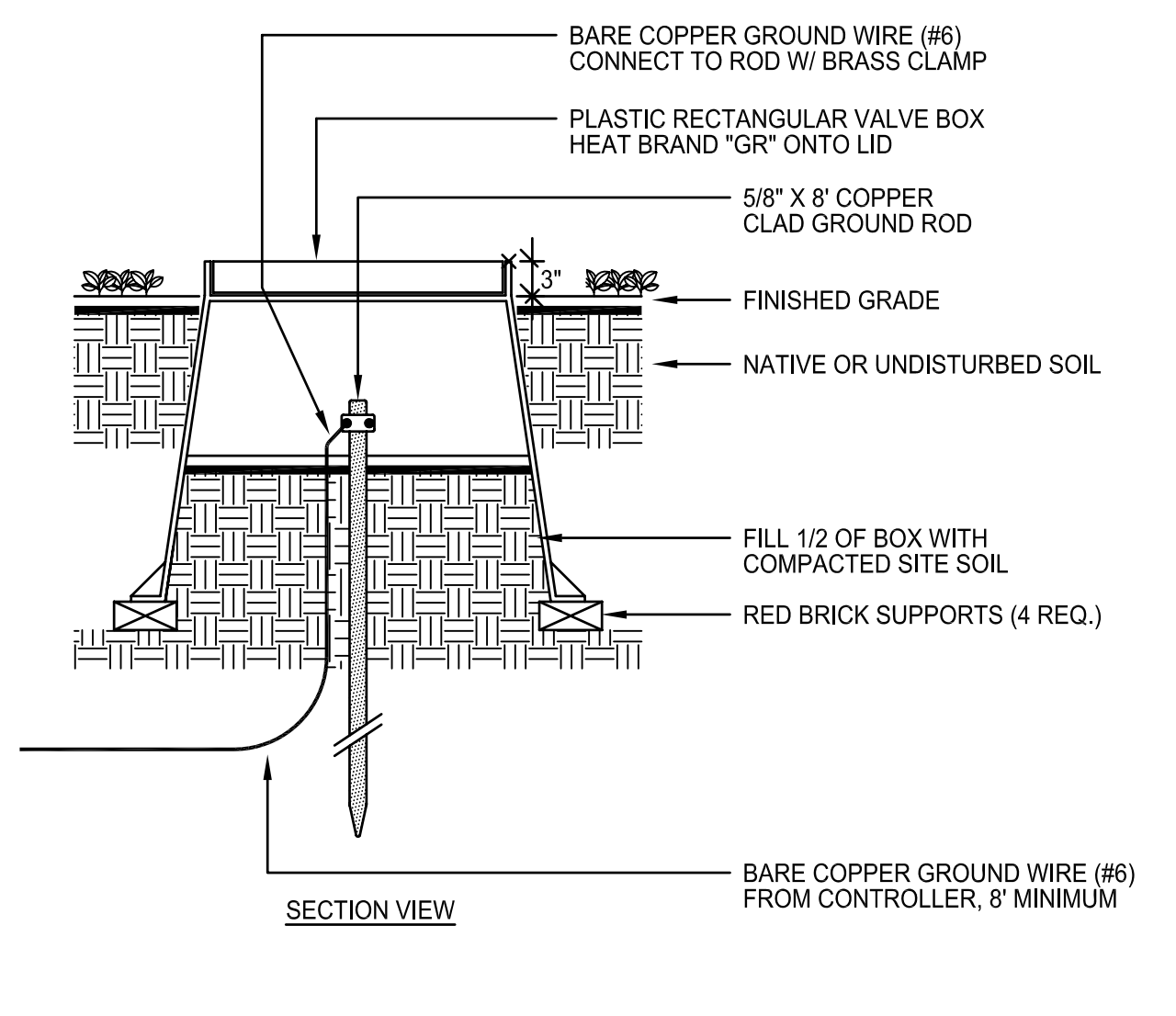
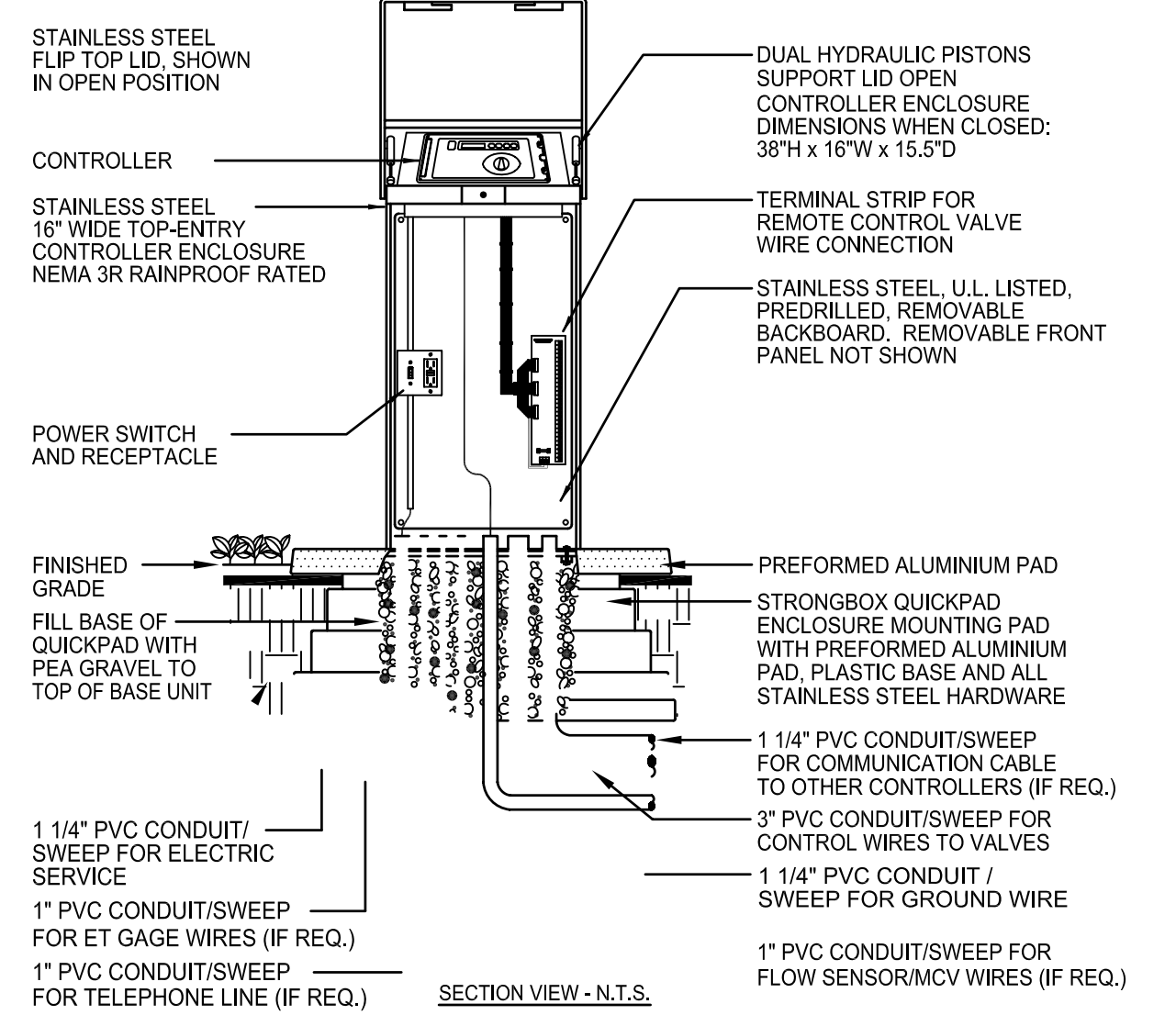
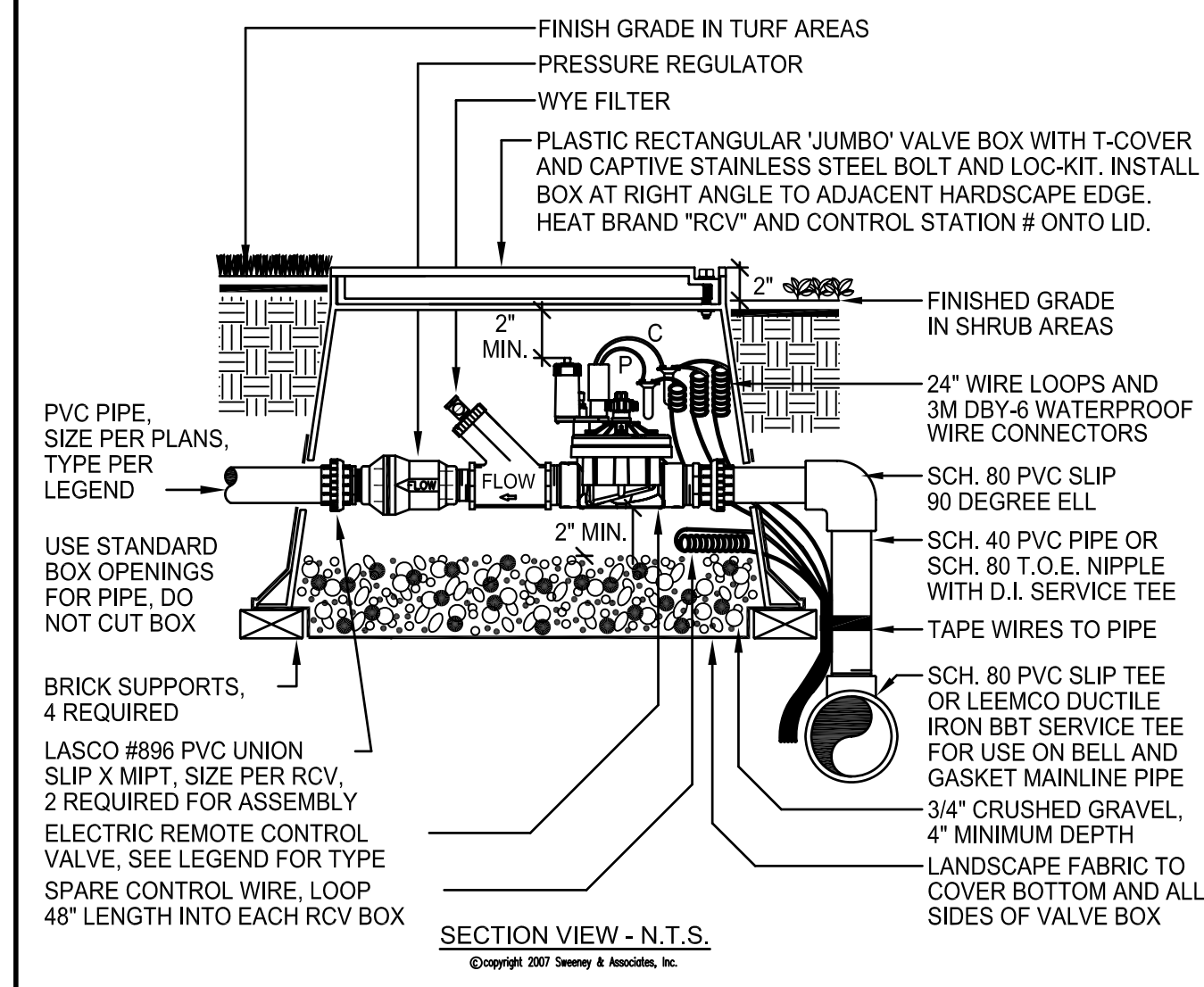
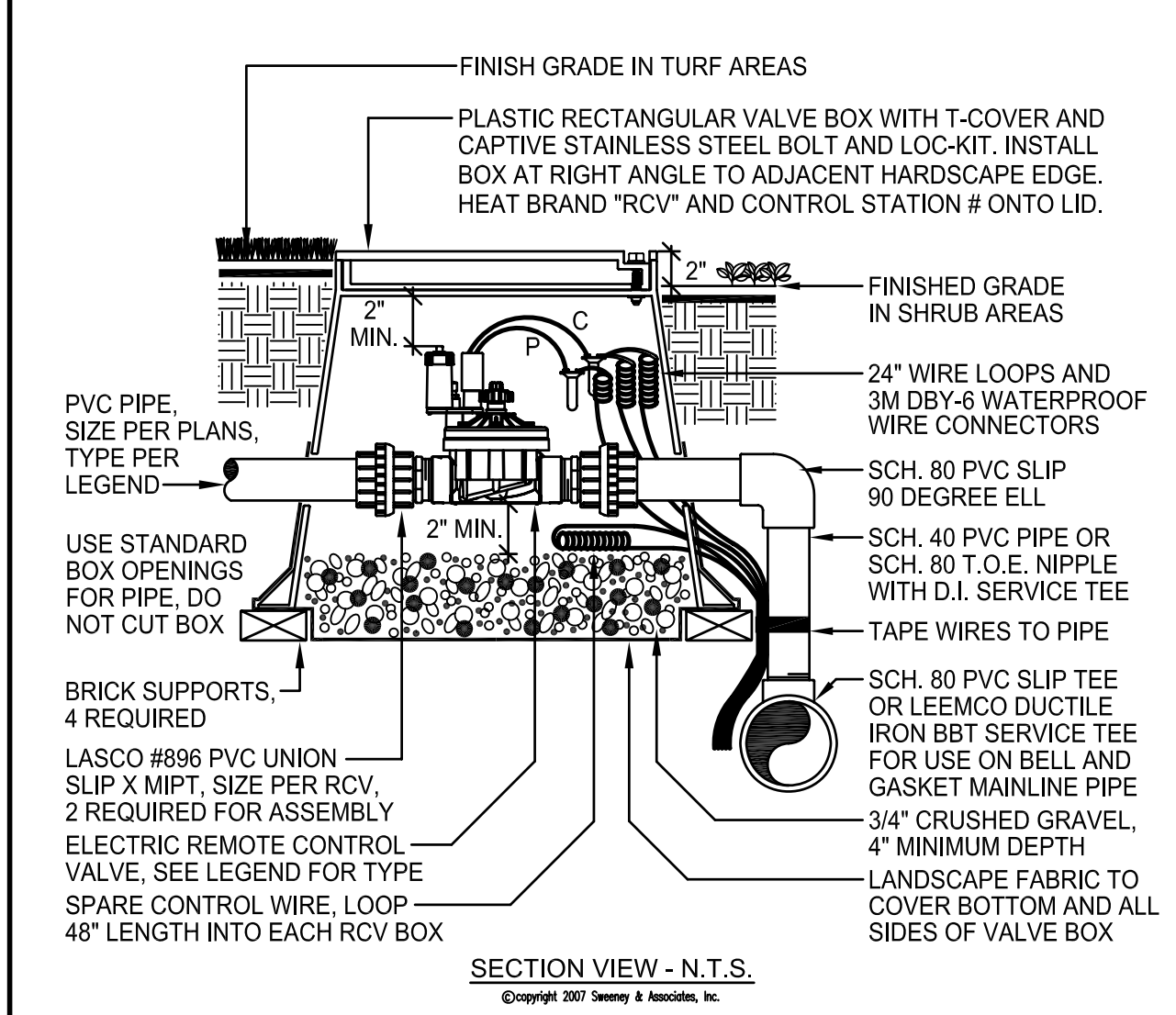
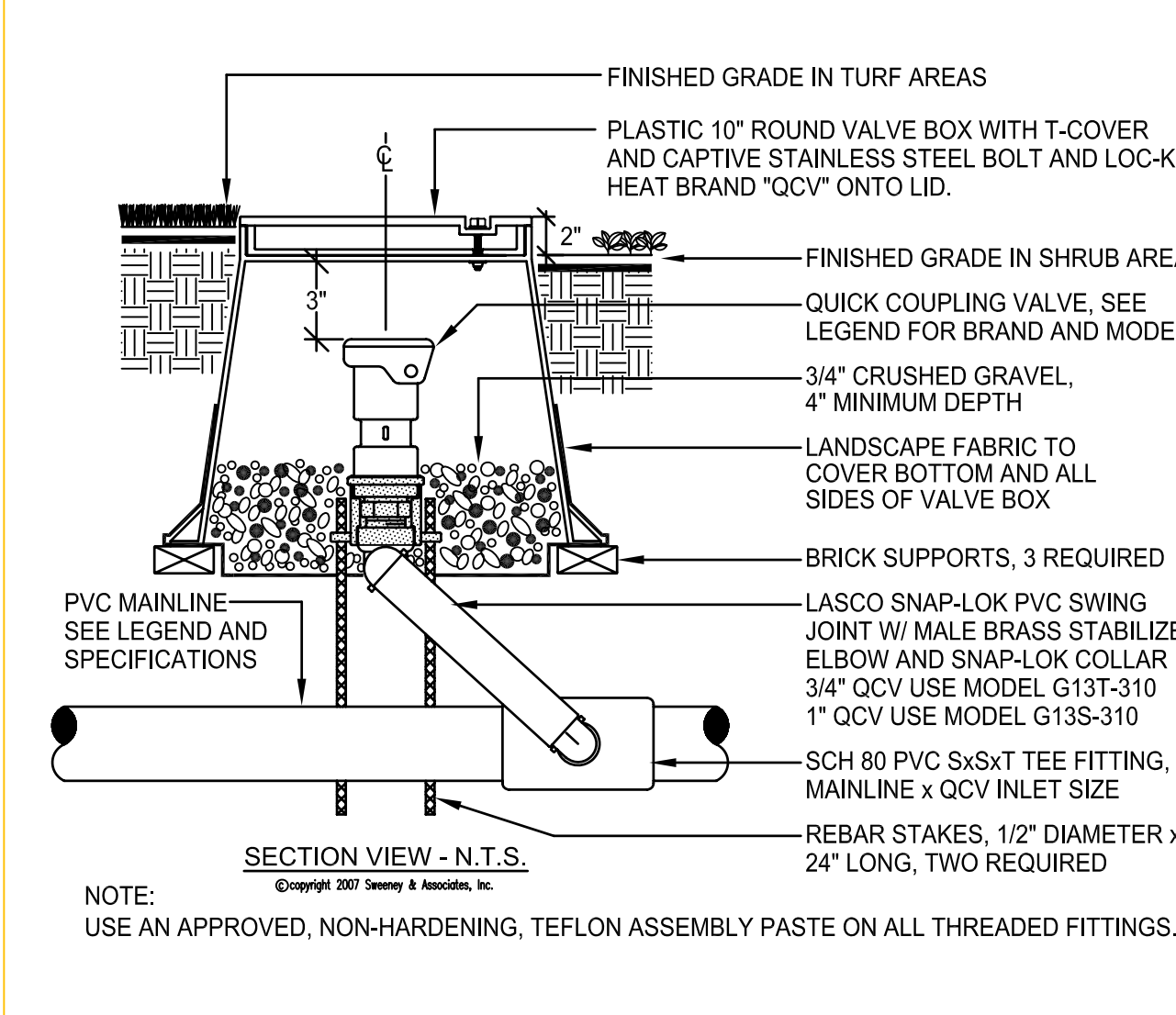
**A POP-UP SPRINKLER**

**B BASKET STRAINER**

**C MASTER CONTROL VALVE**

**D FLOW SENSOR**

**E BALL VALVE**



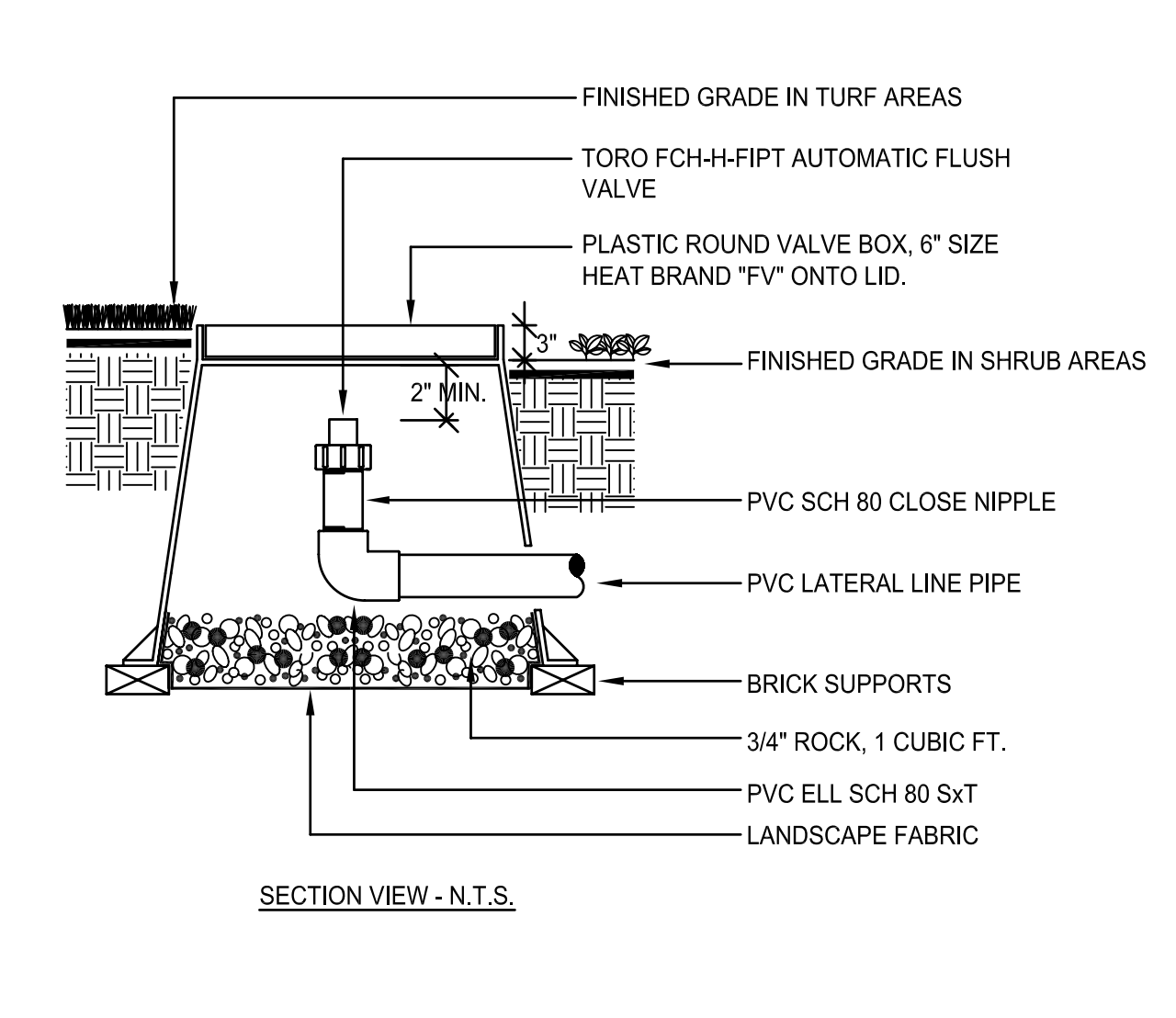
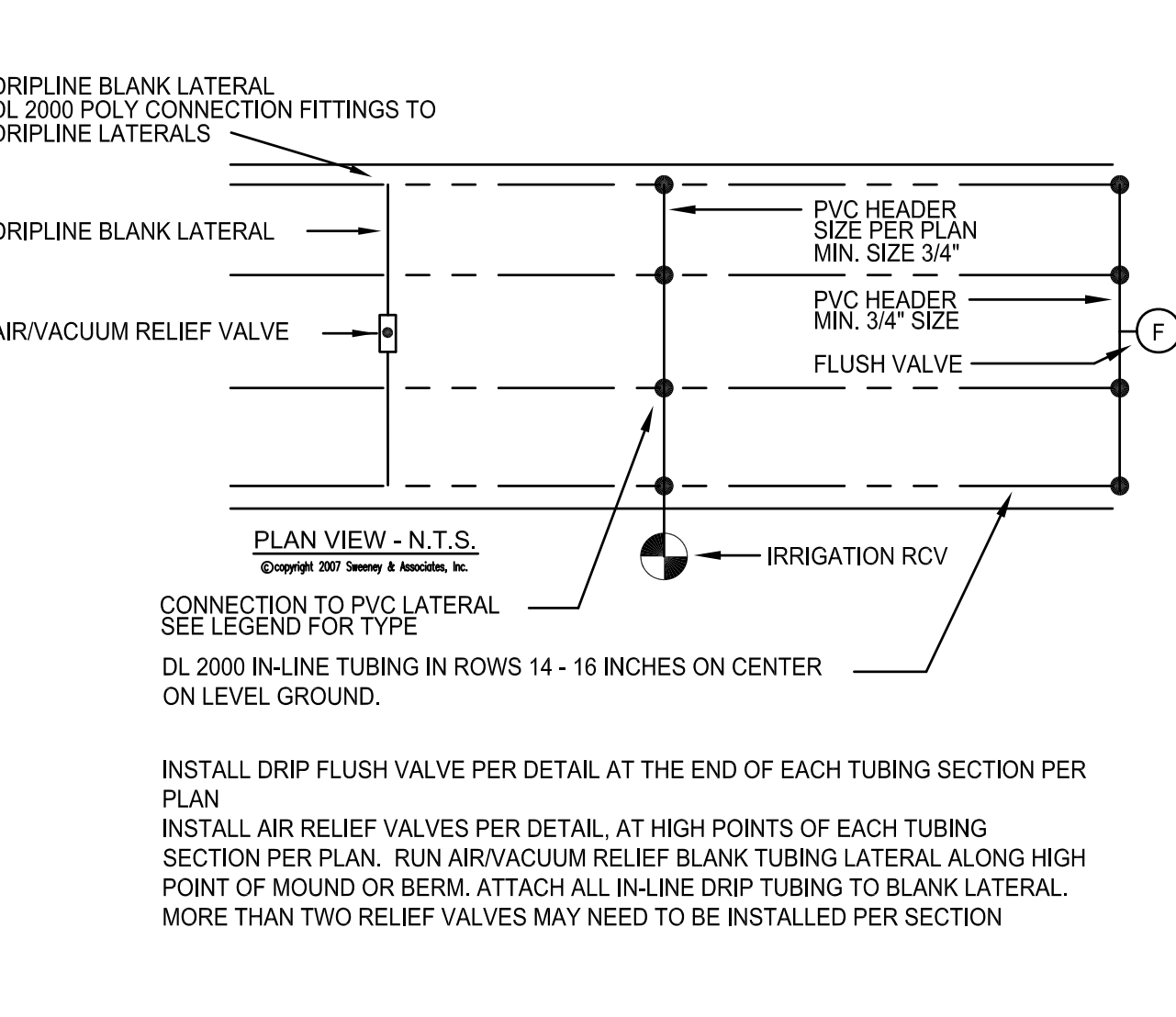
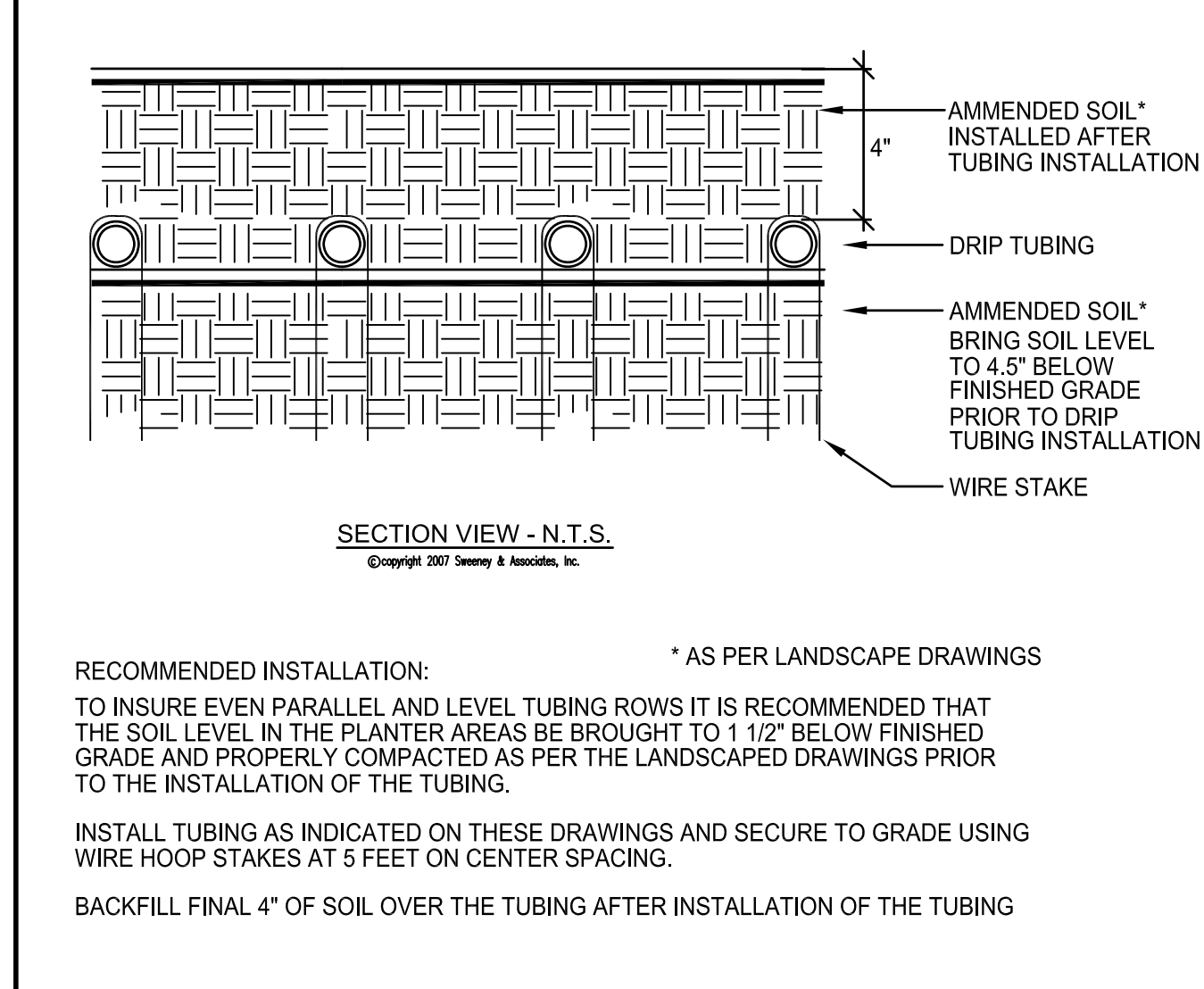
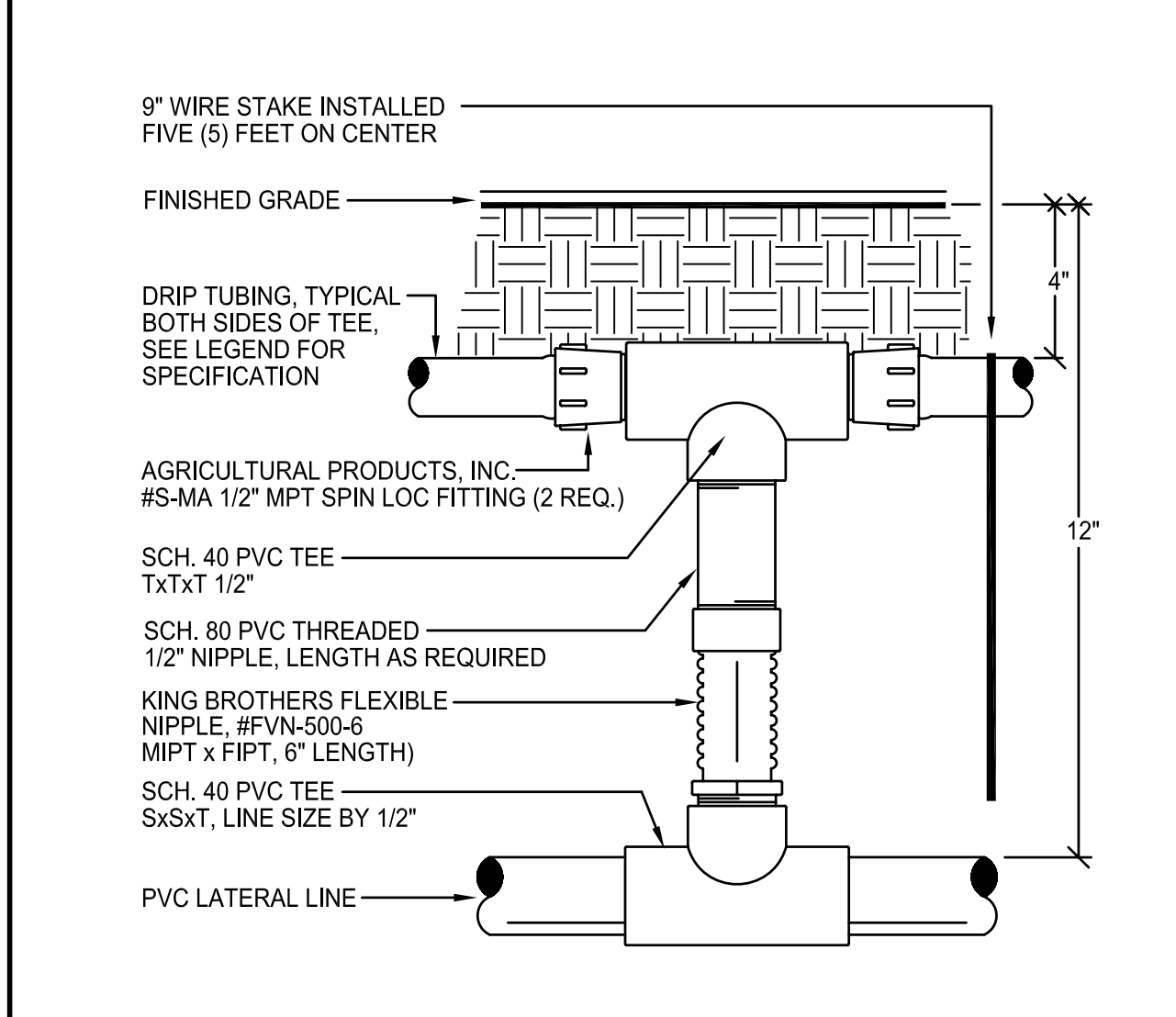
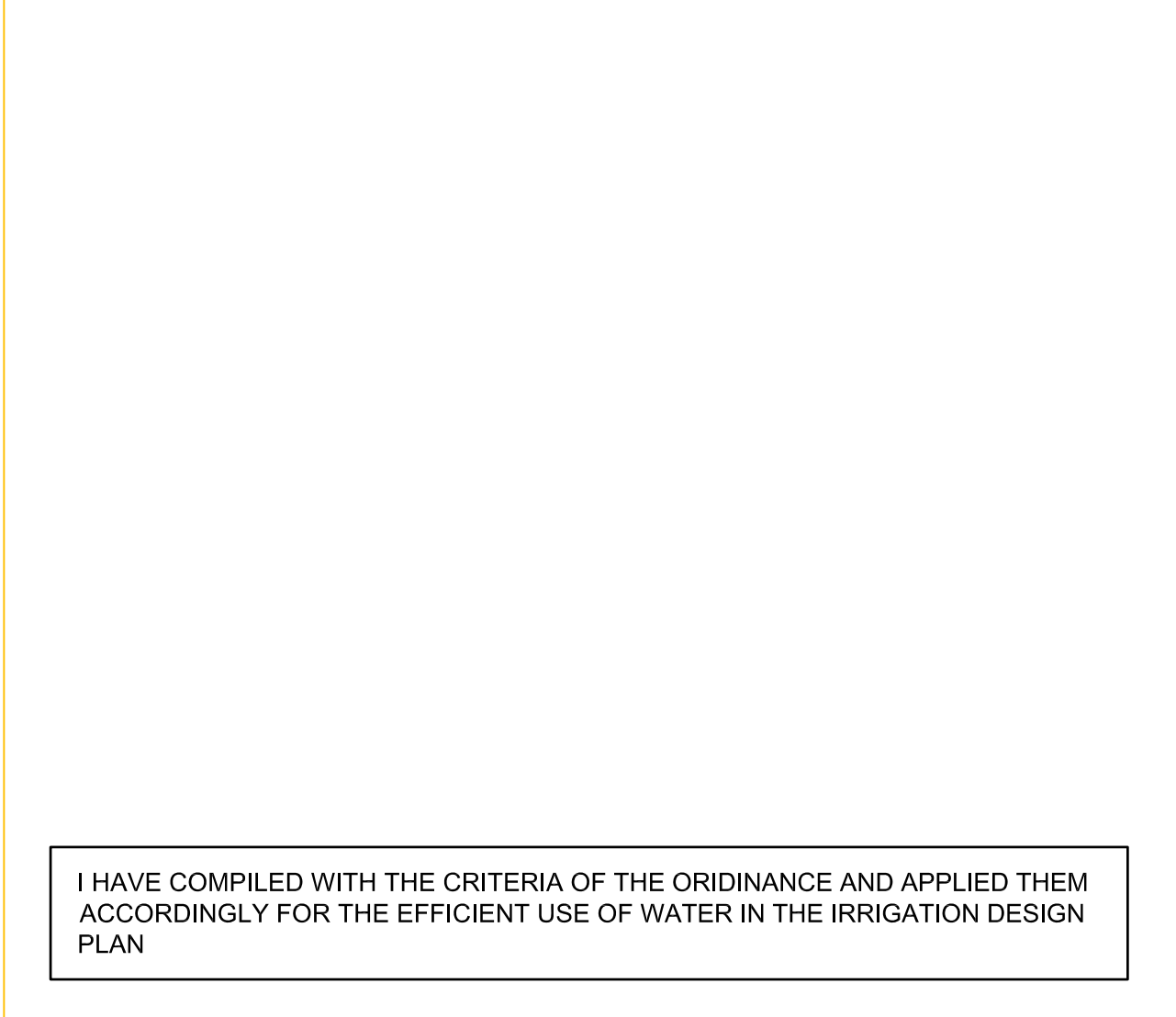
**F QUICK COUPLER VALVE**

**G REMOTE CONTROL VALVE**

**H DRIP RCV ASSEMBLY**

**I CONTROLLER ENCLOSURE**

**J GROUND ROD INSTALLTION**



**K DRIPLINE TUBING**

**L DRIPLINE CONNECTION(SECTION)**

**M DRIPLINE CONNECTION(PLAN)**

**N DRIP FLUSH VALVE**

I HAVE COMPILED WITH THE CRITERIA OF THE ORDINANCE AND APPLIED THEM ACCORDINGLY FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN

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 www.sweeneyassoc.com  
 Murrieta, California ? Austin, Texas ? Ft. Lauderdale, Florida

REFERENCES: DRAWING FILE: 0331ARMAS.DWG DATA FILE: PROJECT FILE: VIEW NAME: PPL0T1_MPLAN1_MPROF1 XREF NAME(S): 0331XSTE.DWG,0331XTPO.DWG 0331ARMAS.DWG 010/30/10 01:04:47 PM PDT	GAS SYSTEM APPROVED BY DATE SOUTHERN CALIFORNIA GAS CO. REVIEWED BY DATE VERIZON-COMMUNICATIONS	REVIEWED BY DATE FLOOD CONTROL ENGINEER, SBCFCWCD REVIEWED BY DATE SOUTHERN CALIFORNIA EDISON CO.	NO. DATE REVISIONS APPD.
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DESIGN MAC CHECKED DRAWN TLA	CITY OF GOLETA, CALIFORNIA
REVIEWED BY: MICHAEL A. CACCESSE DATE: 10-30-10 PROJECT ENGINEER R.C.E. 26887 (EXP. 3-31-11)	DATE

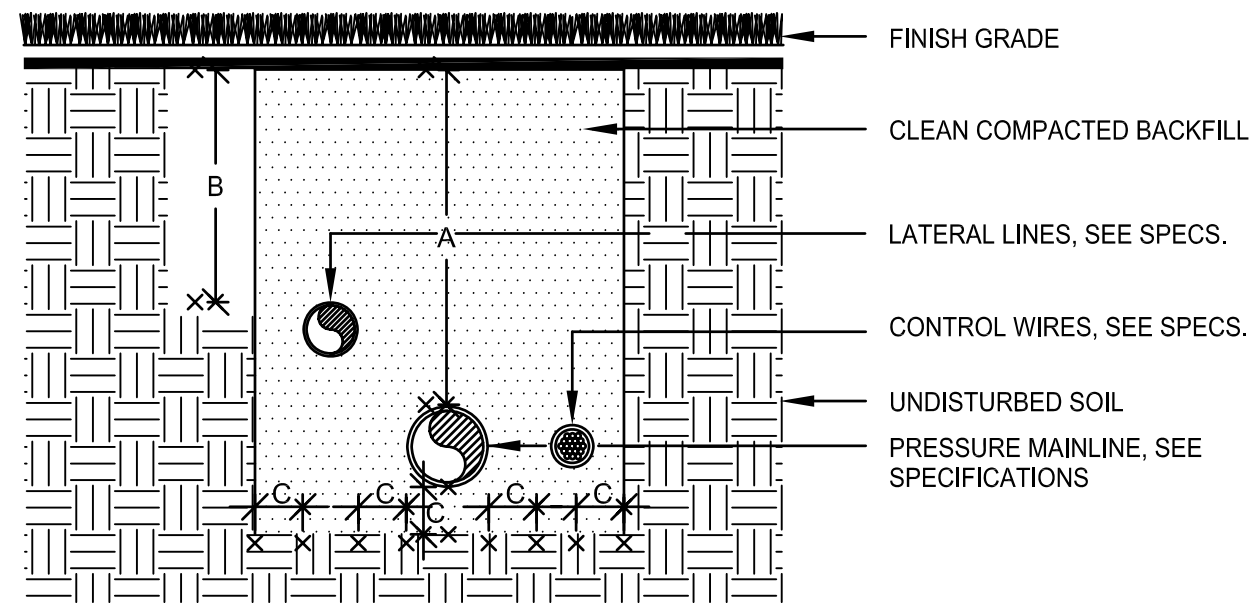
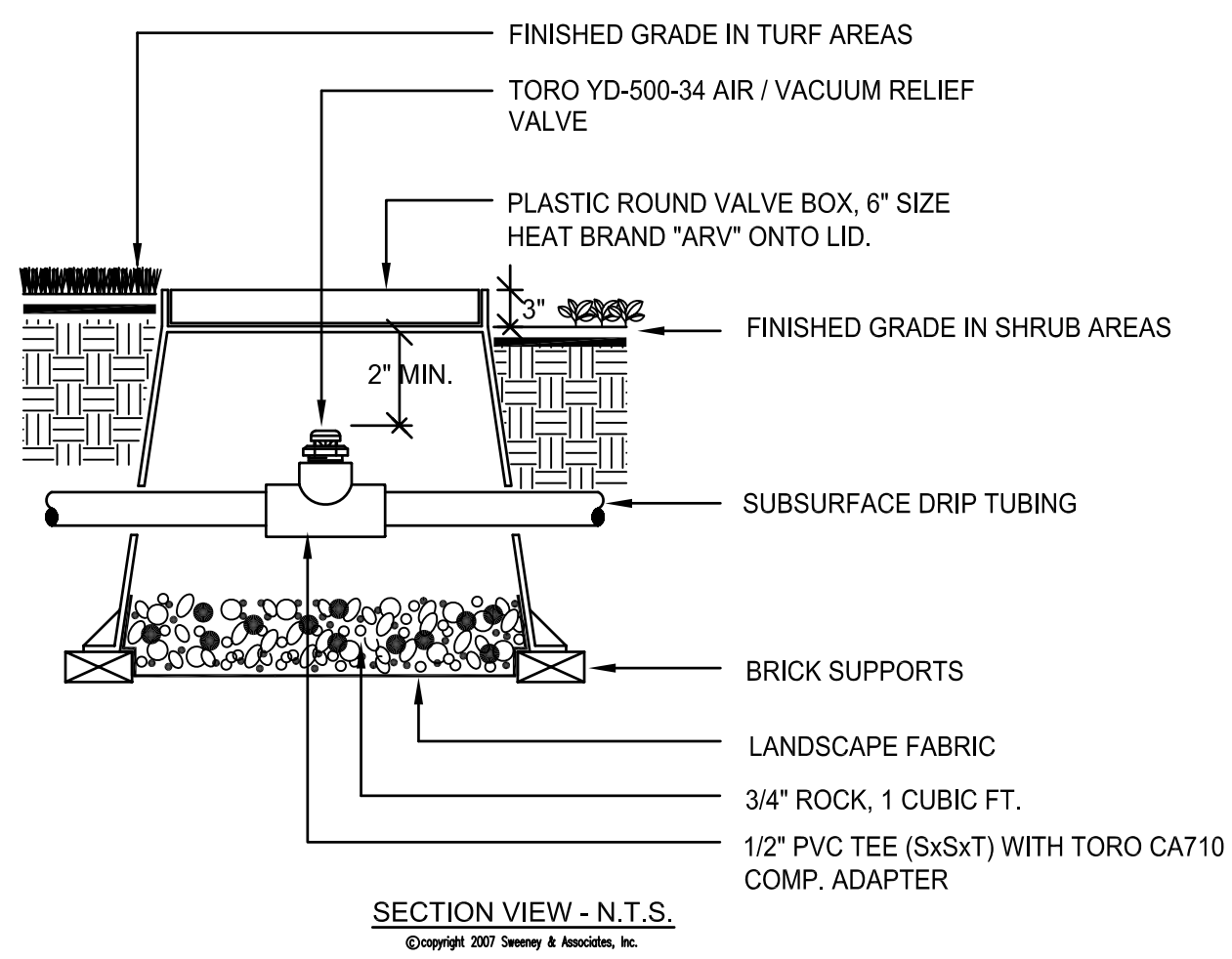
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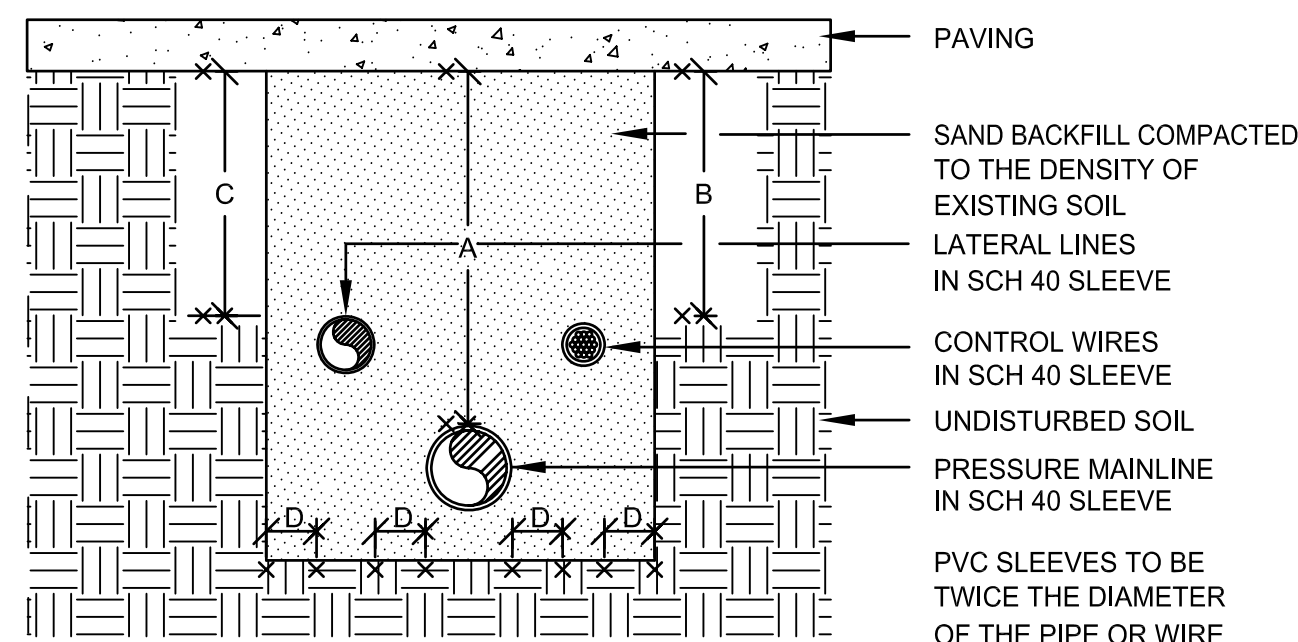
IRRIGATION LEGEND AND NOTES  
 HOLLISTER AVENUE & LAS ARMAS ROAD  
 ROAD IMPROVEMENTS  
 CITY OF GOLETA, CALIFORNIA

WORK ORDER W.O. 0331  
 SHEET 5 of 6  
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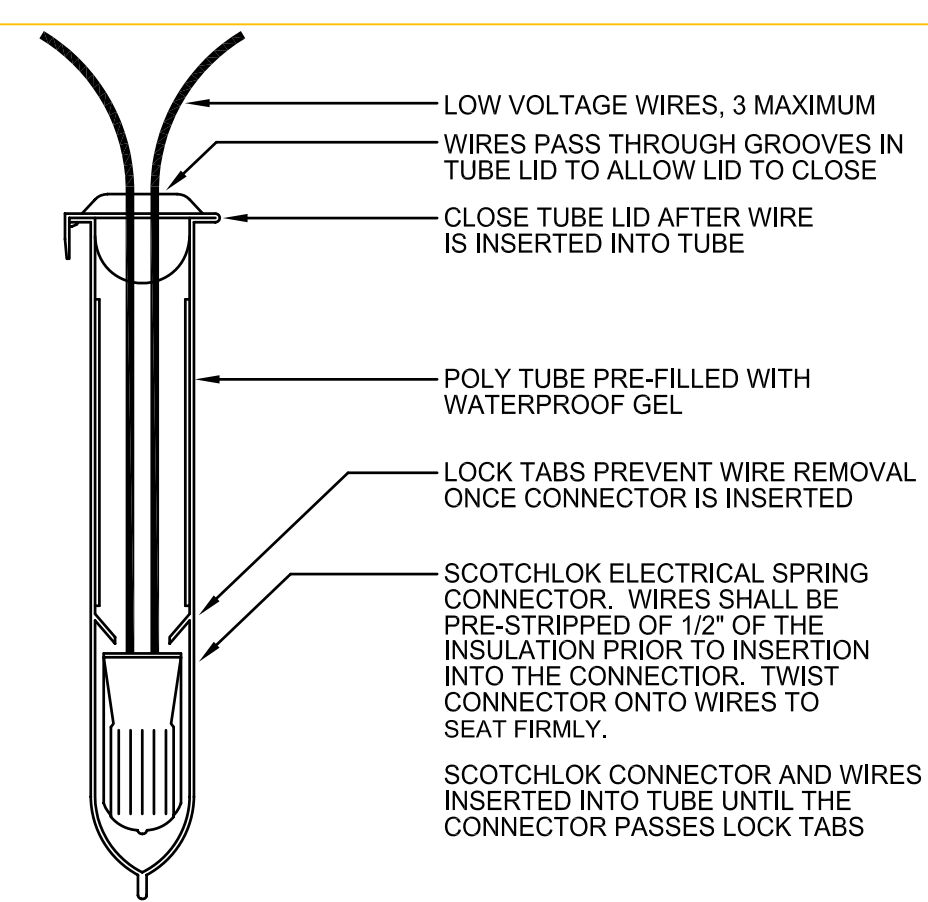
SECTION VIEW - N.T.S.  
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DIMENSION	A	B	C
1/2" TO 2-1/2" IN SIZE	18"	12"	4"
3" TO 6" IN SIZE	24"		4"



SECTION VIEW - N.T.S.  
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DIMENSION	A	B	C	D
1 1/2" TO 6" IN SIZE	36"	24"	24"	4"



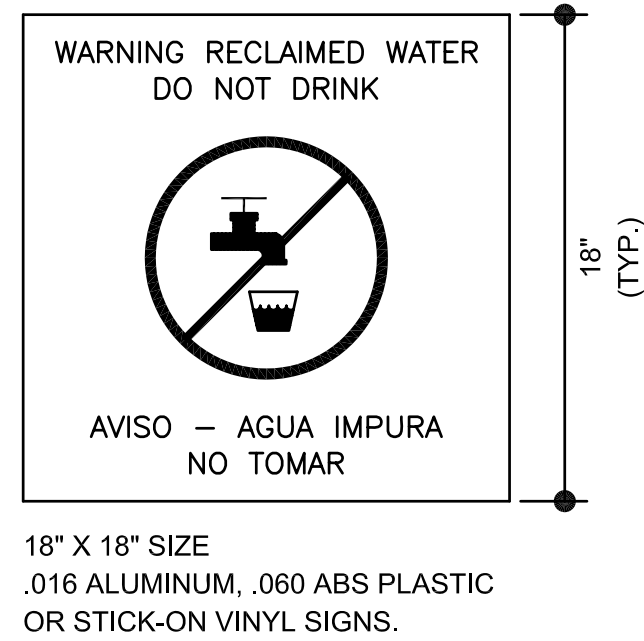
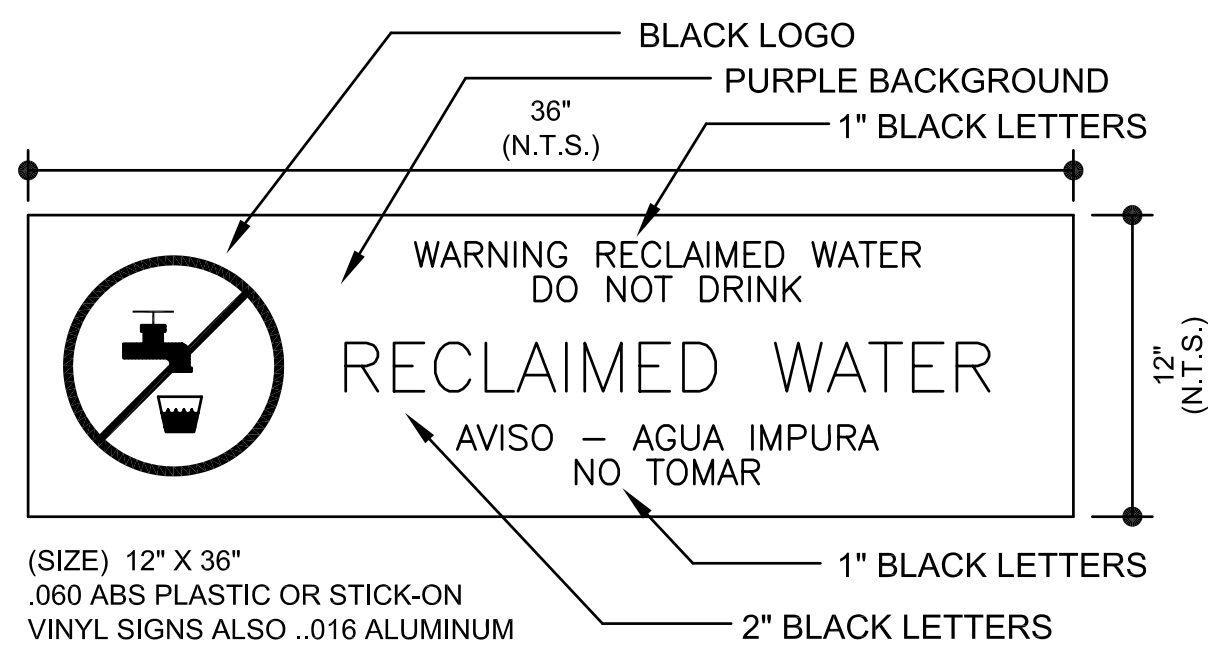
NOTE:  
WIRE CONNECTOR SHALL BE A 3M DBY-6 DIRECT BURY SPLICE KIT.  
KIT SHALL INCLUDE A SCOTCHLOK Y SPRING CONNECTOR, A POLYPROPYLENE TUBE AND A WATERPROOF SEALING GEL. TUBE SHALL BE SUPPLIED PREFILLED WITH GEL.  
DIRECT BURY SPLICE KIT SHALL BE USED TO ELECTRICALLY CONNECT 2-3 #14 OR 2 #12 PRE-STRIPPED COPPER WIRES. LARGER WIRES OR GREATER QUANTITIES OF WIRES SHALL REQUIRE A LARGER APPROVED WIRE CONNECTION.

**○ DRIP AIR RELIEF VALVE**

**○ PIPE INSTALLATION**

**○ SLEEVE INSTALLATION**

**○ WIRE CONNECTION**



**○ RECLAIMED WATER SIGN**



DATE SIGNED \_\_\_\_\_

REFERENCES:  
DRAWING FILE: 0331ARMAS.DWG  
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0331ARMAS.DWG 010/30/10 01:04:47 PM PDT

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SOUTHERN CALIFORNIA GAS CO.	FLOOD CONTROL ENGINEER, SBCFCWCD				
VERIZON COMMUNICATIONS	SOUTHERN CALIFORNIA EDISON CO.				

NO.	DATE	REVISIONS	APPD.

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1933 CLIFF DRIVE, SUITE 6, SANTA BARBARA, CALIF. 93109 (805) 957-4748



DESIGN: MAC CHECKED: \_\_\_\_\_  
DRAWN: TLA  
MICHAEL A. CACCISE DATE: 10-30-10 PROJECT ENGINEER  
R.C.E. 26887 (EXP. 3-31-11)

CITY OF GOLETA, CALIFORNIA  
REVIEWED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
CITY ENGINEER

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IRRIGATION LEGEND AND NOTES  
HOLLISTER AVENUE & LAS ARMAS ROAD  
ROAD IMPROVEMENTS  
CITY OF GOLETA, CALIFORNIA

WORK ORDER W.O. 0331  
SHEET 6 OF 6  
FILE#

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Murrieta, CA 92563  
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