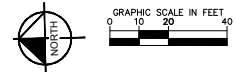


LANDSCAPE IRRIGATION LEGEND

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
■	HUNTER PCB-R FLOOD BUBBLER, 1/2" FIPT. WITH PURPLE CAP FOR RECLAIMED WATER USE.
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
□	HUNTER ICZ-101-40 DRIP CONTROL ZONE KIT. 1" ICV GLOBE VALVE WITH 1" HY160 FILTER SYSTEM - PRESSURE REGULATION: 40PSI. FLOW RANGE: 2 GPM TO 20 GPM. 150 MESH STAINLESS STEEL SCREEN.
⊕	NETAFIM TLO50MFV-1 AUTOMATIC FLUSH VALVE, 1/2" MALE PIPE THREAD.
⊕	NETAFIM 65ARIA075 3/4" MALE PIPE THREAD GUARDIAN AIR/VACUUM RELIEF VENT. INSTALL IN SUBSURFACE SYSTEMS. ON SLOPING TERRAIN TO PREVENT COLLAPSING OF PIPES. UV RESISTANT. MAXIMUM PRESSURE: 150 PSI.
▨	AREA TO RECEIVE DRIFLINE NETAFIM TLRW-06-18-NP TECHLINE RW LANDSCAPE DRIFLINE WITH PURPLE STRIPE FOR NON-POTABLE WATER APPLICATIONS. 0.6 GPM EMITTERS AT 18" O.C. DRIFLINE LATERALS SPACED AT 18" APART. WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN. DESIGNED FOR RECLAIMED WATER USE ONLY.
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
⊕	HUNTER ICV-0-NPT-FS-AS-ADJ 1", 1-1/2", 2", AND 3" PLASTIC ELECTRIC REMOTE CONTROL VALVES, GLOBE CONFIGURATION, WITH NPT THREADED INLET/OUTLET FOR COMMERCIAL/MUNICIPAL USE. WITH FILTER SENTRY FACTORY INSTALLED OPTION.
■	RAIN BIRD 44-LRC 1" BRASS QUICK-COUPLING VALVE, WITH CORROSION-RESISTANT STAINLESS STEEL SPRING, LOCKING THERMOPLASTIC RUBBER COVER, AND 2-PIECE BODY.
⊕	MATCO-NORCA 513T 3/4"-2" BRONZE GATE VALVE, FULL PORT, HEAVY DUTY, NON-RISING STEM, IPS, WHEEL HANDLE. SAME SIZE AS MAINLINE PIPE.
⊕	NIBCO T-580-A REFER TO DETAIL N, SHEET LS-05. BRASS BALL VALVE SHUT OFF VALVE, THREADED END CONNECTIONS, 1/2" TO 3", SIZE TO MAINLINE. ALL BALL VALVES TO BE INSTALLED SO THE HANDLE IS OPERATED VERTICALLY.
⊕	HUNTER IC-1800-PED-SS MODULAR CONTROLLER, 18 STATIONS, OUTDOOR MODEL, STAINLESS STEEL, PEDESTAL, COMMERCIAL USE. WITH TWO ICM-600 MODULES INCLUDED.
⊕	HUNTER WSS WIRELESS SOLAR, RAIN FREEZE SENSOR WITH OUTDOOR INTERFACE. CONNECTS TO HUNTER PCC, PRO-C, AND I-CORE CONTROLLERS. INSTALL AS NOTED. INCLUDES 10 YEAR LITHIUM BATTERY AND RUBBER MODULE COVER, AND GUTTER MOUNT BRACKET.
PR	PRESSURE REGULATOR 2" WAITS PRESSURE REGULATOR. SET DISCHARGE PRESSURE TO 80PSI
⊕	RECYCLED WATER SIGN
S	SWING CHECK VALVE 2" SWING CHECK VALVE
Y	WPE STRAINER 2" WAITS WPE STRAINER W/ 30 MESH SCREEN
W	WATER METER 1-1/2" RECYCLED WATER METER - SEE CIVIL PLANS
---	IRRIGATION LATERAL LINE: PVC SCHEDULE 40 PURPLE PIPE FOR RECLAIMED WATER
---	IRRIGATION MAINLINE: PVC SCHEDULE 40 PURPLE PIPE FOR RECLAIMED WATER
---	PIPE SLEEVE: PVC SCHEDULE 40
⊕	Valve Cutout Valve Number Valve Flow Valve Size

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			MORGAN, M.	08/0988
			HENRY, W.	08/0988
			MADSEN, M.	08/0988
			MEYERHOFER, P.	08/0988
1	COUNTY OF NAPA - SUBMITTAL 2	1/9/18		



SCALE
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VERTICAL 1" = 20'

Kimley Horn

100 W. SAN FERNANDO ST, #250
SAN JOSE, CA 95113
(669) 800-4130

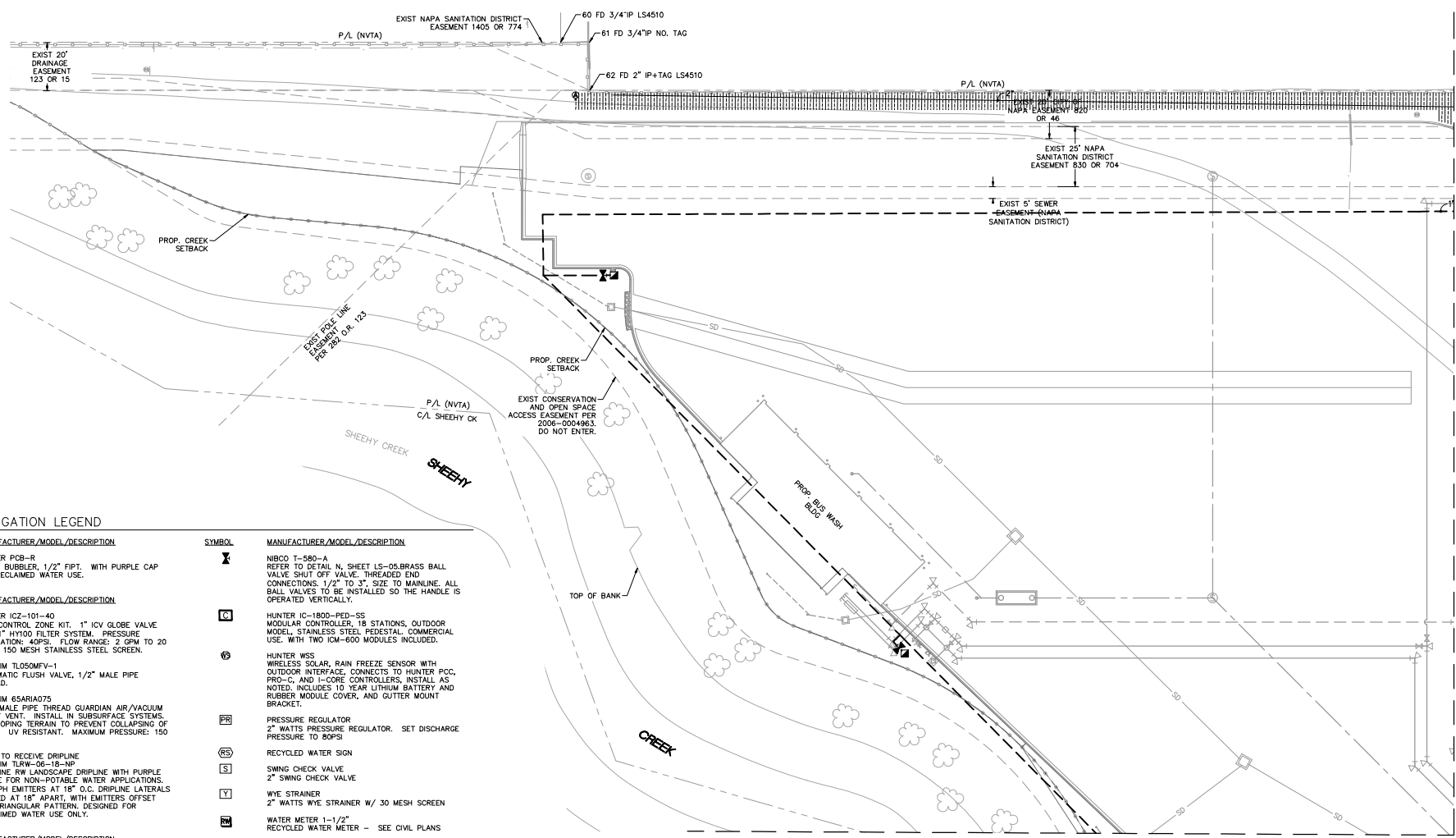


FLEET MAINTENANCE AND OPERATIONS FACILITY
96,101 SHEEHY COURT, NAPA, CA

LANDSCAPE IRRIGATION PLAN
SHEET 1 OF 7

DRAWING NO.	L-101
SHEET NO.	

NVRTA FLEET MAINTENANCE AND OPERATIONS FACILITY

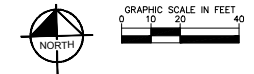


LANDSCAPE IRRIGATION LEGEND

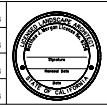
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
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			PIPE SLEEVE: PVC SCHEDULE 40
			Valve Color: [Diagram]
			Valve Number: [Diagram]
			Valve Size: [Diagram]

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NVTA
 NAPA VALLEY TRANSPORTATION AUTHORITY
FLEET MAINTENANCE AND OPERATIONS FACILITY
 96,101 SHEEHY COURT, NAPA, CA

LANDSCAPE IRRIGATION PLAN
 SHEET 2 OF 7

DRAWING NO.	L-102
SHEET NO.	

MATCHLINE
SEE SHEET L-101

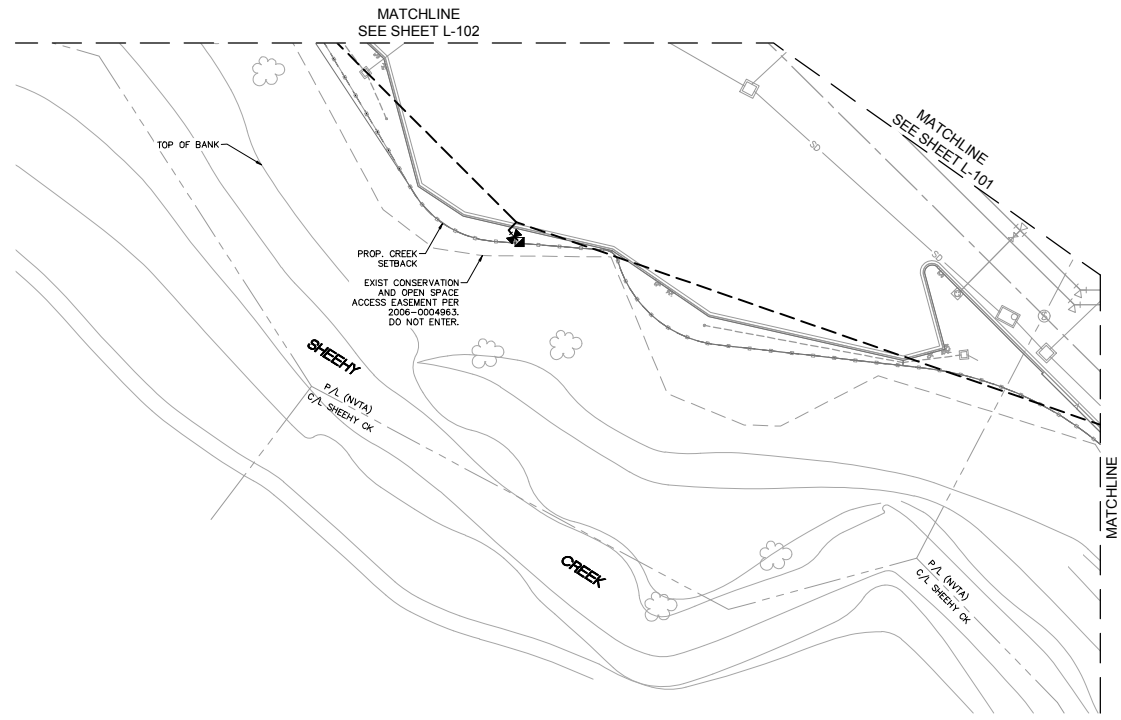
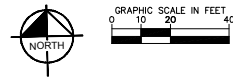
NVTA FLEET MAINTENANCE AND OPERATIONS FACILITY

LANDSCAPE IRRIGATION LEGEND

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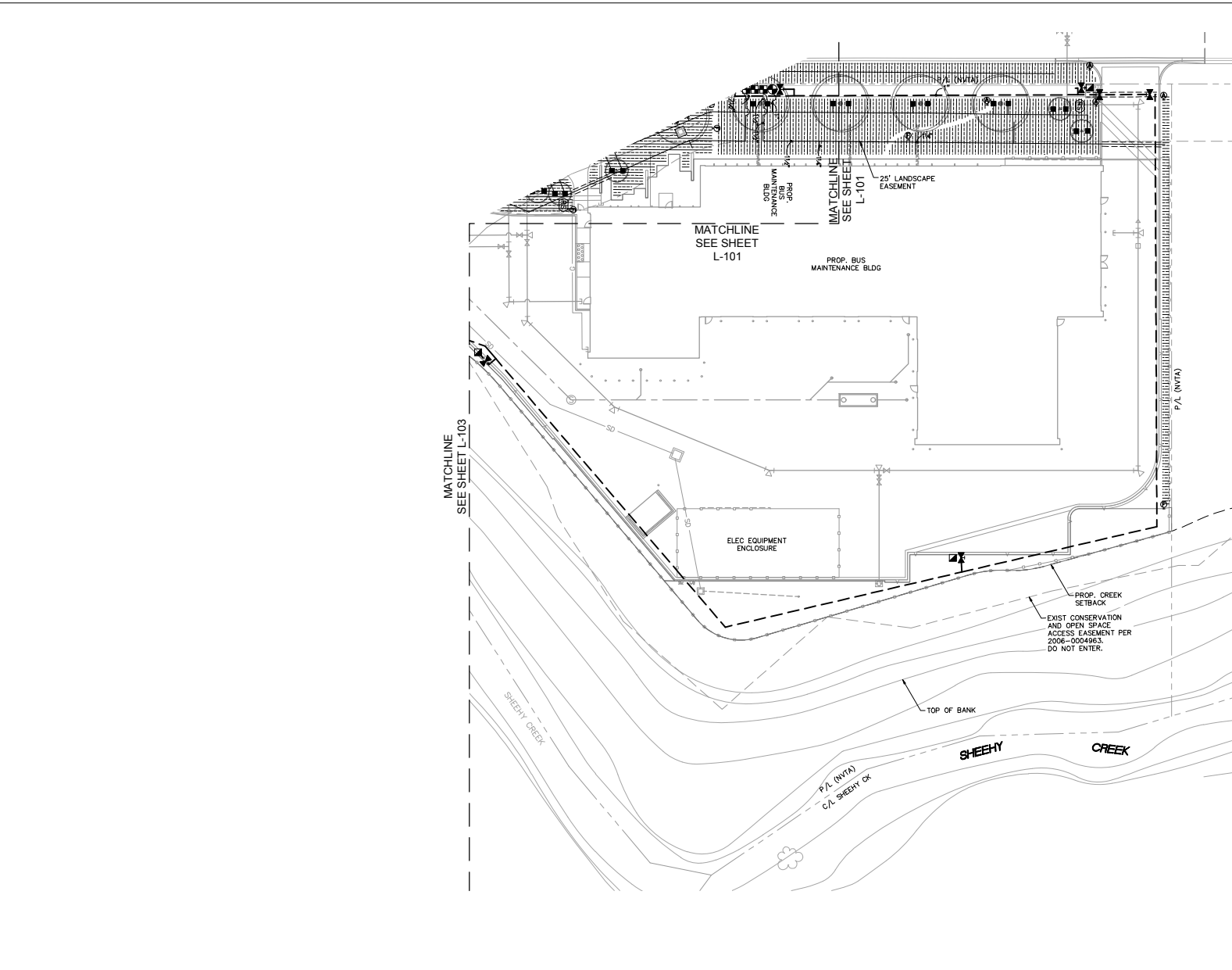
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NO	REVISION / SUBMISSION	DATE	DESIGNED BY MORGAN, M.	DATE 08/0988		SCALE HORIZONTAL 1" = 20' VERTICAL 1" = 20'	Kimley Horn 100 W. SAN FERNANDO ST. #250 SAN JOSE, CA 95113 (669) 800-4130		FLEET MAINTENANCE AND OPERATIONS FACILITY 96,101 SHEEHY COURT, NAPA, CA	LANDSCAPE IRRIGATION PLAN SHEET 3 OF 7	DRAWING NO. L-103
			CHECKED BY MADSEN, M.	DATE 08/0988							SHEET NO.
			IN CHARGE MEYERHOFER, P.	DATE 08/0988							
1	COUNTY OF NAPA - SUBMITTAL 2	1/9/18									

NVRTA FLEET MAINTENANCE AND OPERATIONS FACILITY

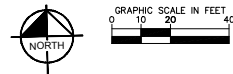


LANDSCAPE IRRIGATION LEGEND

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96,101 SHEEHY COURT, NAPA, CA

LANDSCAPE IRRIGATION PLAN
SHEET 4 OF 7

DRAWING NO.	L-104
SHEET NO.	

NVTA FLEET MAINTENANCE AND OPERATIONS FACILITY

LANDSCAPE IRRIGATION NOTES

1. THE SYSTEM HAS BEEN DESIGNED TO PROVIDE 100% COVERAGE BASED ON AN AVAILABLE STATIC WATER PRESSURE OF 70 PSI AT THE PROPOSED 1-1/2" RECYCLED WATER METER. ANY CHANGES MADE IN THE LAYOUT DUE TO FIELD CONDITIONS SHALL BE IN ACCORDANCE WITH THESE STANDARDS. QUANTITIES IN SCHEDULE ARE ESTIMATED. PLAN SHALL TAKE PRECEDENCE.
2. THIS SYSTEM IS DESIGNED FOR USE OF RECYCLED WATER. THERE ARE NO RECYCLED WATER IRRIGATION METERS ON THIS PROJECT. THE PEAK FLOW THROUGH THE METER IS XX GPM. THE TOTAL IRRIGATED AREA IS 23,337 SF. THE ESTIMATED MAXIMUM APPLIED ANNUAL WATER ALLOCATION (MAWA) IS 321,645 GAL/YR. THE ESTIMATED ANNUAL WATER USE AS DESIGNED IS 276,344 GAL/YR.
3. ALL IRRIGATION WORK SHALL BE IN ACCORDANCE WITH CITY OF NAPA WATER DIVISION STANDARDS, THE CITY OF NAPA LANDSCAPE MANUAL, THE CITY OF NAPA LANDSCAPE WATER CONSERVATION ORDINANCE, NAPA SANITATION DISTRICT STANDARDS, AND THE DEPARTMENT OF ENVIRONMENTAL HEALTH.
4. ALL PRESSURE MAINLINES UNDER ASPHALT PAVEMENT SHALL BE PLACED WITHIN SLEEVES AS NOTED. WHERE ELECTRIC VALVE CONTROL LINES PASS THROUGH A SLEEVE WITH OTHER MAIN OR LATERAL LINES THEY SHALL BE CONTAINED WITHIN A SEPARATE, SMALLER CONDUIT. ALL SLEEVES ON PLAN FOR WALL PENETRATIONS AND UNDER SIDEWALKS SHALL BE SIZED TWO PIPE SIZES GREATER THAN PIPE IT CARRIES.
5. ALL SLEEVES UTILIZED BY THE IRRIGATION CONTRACTOR, WHETHER INSTALLED BY HIM OR NOT, SHALL BE LOCATED ON THE "AS-BUILT" DRAWINGS, THE DEPTH BELOW FINISH GRADE, TO THE NEAREST FOOT OF EACH END OF EACH SLEEVE SHALL BE NOTED AT EACH SLEEVE LOCATION ON THE "AS-BUILT" DRAWINGS. CONTRACTOR SHALL ADD "X" ETCHING ON FACE OF CURB AND PROVIDE IRRIGATION BOX AT EACH END OF SLEEVE IN LANDSCAPE AREA.
7. PARALLEL LATERAL LINES SHALL HAVE A MINIMUM OF 6" BETWEEN THEM FOR ACCESSIBILITY.
8. ALL NEW IRRIGATION EQUIPMENT FOR USE WITH RECYCLED WATER SHALL CLEARLY INDICATE THIS ACCORDING TO NAPA SANITATION DISTRICT STANDARDS.
9. ALL RECYCLED WATER VALVES SHALL BE INSTALLED IN PURPLE PLASTIC VALVE BOXES WITH A LOCKING LID. INSTALL ALL VALVE BOXES WITH MESH AT THE BASE TO PREVENT SMALL MAMMALS FROM ENTERING.
10. IRRIGATION LAYOUT SHALL BE DESIGNED TO MINIMIZE/ELIMINATE OVERSPRAY ONTO WALKS, WALLS, FENCES, AND STREETS.
11. NO RECYCLED WATER SHALL BE ALLOWED TO SPRAY OVER BROW DITCHES OR DRAINAGEWAYS.
12. AN ISOLATION BALL VALVE SHALL BE PROVIDED WHERE THERE IS A QUICK COUPLER, AT EACH VALVE MANIFOLD, AND AT BOTH ENDS OF SLEEVES AT STREET CROSSINGS. THESE VALVES SHALL BE SET AND INSTALLED WITHIN LANDSCAPE AREAS.
13. THE IRRIGATION DESIGN TAKES INTO ACCOUNT THAT MAXIMUM VELOCITIES THROUGH THE VARIOUS EQUIPMENT SHALL BE LIMITED TO 5 FEET PER SECOND.
14. CONTRACTOR SHALL REFER TO SHEET THESE PLANS FOR OPERATING PARAMETERS OF EACH PROPOSED MASTER SYSTEM. IF THE MASTER SYSTEMS CANNOT PROVIDE THESE PARAMETERS, CONTRACTOR SHALL MAKE ADJUSTMENTS TO THE DESIGN BY ADDING CONTROL VALVES, A BOOSTER PUMP, OR OTHER EQUIPMENT, AS NECESSARY.
15. ALL MAINLINE FITTINGS SHALL BE SCHEDULE 80 PVC, ALL MAINLINE PIPE 2" AND LARGER SHALL BE CLASS 315 PVC. ALL MAINLINE PIPE 1.5" AND SMALLER SHALL BE SCHEDULE 40 PVC. ALL LATERAL LINE PIPE AND SLEEVE PIPE SHALL BE SCHEDULE 40 PVC. ALL LATERAL LINE FITTINGS SHALL BE SCHEDULE 40 PVC.
16. PLANS ARE DIAGRAMMATIC AND ALL PIPING, VALVE BOXES, AND BACKFLOW PREVENTERS SHALL BE LOCATED IN LANDSCAPE AREAS, WHERE POSSIBLE.
17. CONTRACTOR SHALL VERIFY LOCATION OF ALL UNDERGROUND UTILITIES AND SERVICES PRIOR TO ANY DIGGING. CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR ALL DAMAGE CAUSED BY FAILURE TO DO SO.
18. IRRIGATION CONTRACTOR SHALL SECURE ANY AND ALL NECESSARY PERMITS FOR THE WORK PRIOR TO COMMENCEMENT OF HIS OR HER OPERATIONS ON-SITE. COPIES OF THE PERMITS SHALL BE SENT TO THE CITY WORK IN THE R.O.W. SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE CITY OF CHULA VISTA.
19. ELECTRICAL CONTRACTOR SHALL ONLY PROVIDE ELECTRICAL SERVICE TO IRRIGATION CONTROLLER. IRRIGATION CONTRACTOR TO FURNISH AND INSTALL ALL IRRIGATION CONTROL VALVE WIRING AND ASSOCIATED CONDUITS AND PULL BOXES.
20. ALL 24 VAC WIRING SHALL BE OF DIRECT BURIAL COPPER WIRE AS FOLLOWS:
 - CONTROL WIRES - #14
 - COMMON WIRES - #12
 WHEN POSSIBLE, ALL IRRIGATION PULL BOXES SHALL BE LOCATED IN A LANDSCAPE AREA AND NOT IN HARDSCAPE AREAS.
19. ALL NEW WIRE SHALL BE TRENCHED AND RUN ALONG THE PATH OF THE NEW MAINLINE FROM IRRIGATION CONTROLLER TO REMOTE CONTROL VALVE. ALL NEW WIRE THAT IS FOLLOWING AN EXISTING MAINLINE SHALL BE TRENCHED AND RUN IN CONDUIT PARALLEL TO EXISTING MAINLINE WITHIN LIMITS OF DISTURBANCE WHENEVER POSSIBLE AND BEHIND BACK OF CURB. FLOW SENSOR WIRES SHALL BE INSTALLED IN INDIVIDUAL SEPARATE CONDUIT. MASTER VALVE WIRES SHALL BE INSTALLED IN INDIVIDUAL SEPARATE CONDUIT. ALL NEW WIRES SHALL BE INSTALLED IN PVC SCH 40 CONDUIT WITH PULL BOXES AT 270° BENDS.
20. INSTALLATION OF WORK SHALL BE COORDINATED IN SUCH A MANNER AS TO ALLOW FOR A SPEEDY AND ORDERLY COMPLETION OF ALL WORK ON THE SITE.
21. COORDINATE WITH PLANTING PLAN FOR PLANTER BED AND TREE LOCATIONS.
22. CONTRACTOR SHALL PROVIDE "AS-BUILT" DRAWINGS OF THE FINAL INSTALLATION, INCLUDING UPDATED VALVE SCHEDULES FOR EACH CONTROLLER, TO CITY ENGINEER AT SUBSTANTIAL COMPLETION BEFORE RECEIVING FINAL PAYMENT.
23. CONTRACTOR IS RESPONSIBLE FOR THE IRRIGATION SYSTEM 1 YEAR PAST FINAL INSPECTION AND SHALL WARRANT ALL IRRIGATION SYSTEM WORK AND ASSOCIATED COMPONENTS FOR 1 YEAR.
24. FOR IRRIGATION LEGEND/SCHEDULE SEE THIS SHEET.
25. FOR IRRIGATION DETAILS SEE SHEETS 74 THROUGH ##.
26. FOR IRRIGATION WATER AGENCY STD, RECYCLED WATER SPECIFICATIONS SEE SHEET ## THROUGH ##.
27. REFER TO STATE OF CALIFORNIA ESTIMATED WATER USE CHARTS FOR ALL MAXIMUM APPLIED WATER ALLOWANCE AND ESTIMATED TOTAL WATER USE CALCULATIONS PER ASSEMBLY BILL 1881. **ONE CHART IS PROVIDED FOR EACH SYSTEM/METER.

I HAVE COMPLIED WITH THE CRITERIA OF THE AB 1881 ORDINANCE AND APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN.

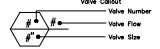
MATTHEW J. MORGAN, PLA 6256

STATE OF CALIFORNIA ESTIMATED WATER USE						
TOTAL WATER USE IS CALCULATED BY SUMMING THE AMOUNT OF WATER ESTIMATED FOR EACH HYDROZONE. WATER USE FOR EACH HYDROZONE IS ESTIMATED WITH THE FOLLOWING FORMULA: EWU (HYDROZONE) = ESTIMATED WATER USE (GAL / YEAR) ETO = REFERENCE EVAPOTRANSPIRATION (INCHES / YEAR) PF = PLANT ETO ADJUSTMENT FACTOR HA = HYDROZONE AREA (S.F.) (BUBBLER HA = 16 S.F. / TREE) IE = IRRIGATION EFFICIENCY SLA = SPECIAL LANDSCAPE AREA (S.F.) EWU (HYDROZONE) = (ETO * PF * HA * IE) / (SLA)						
HYDROZONE A (LOW WATER USE - DRIP)						
ETO	PF	HA	IE	CONVERSION FACTOR	EWU GAL/YEAR	
49.4	.3	14478	.81	.62	164,234	
HYDROZONE B (MODERATE WATER USE - BUBBLER)						
ETO	PF	HA	IE	CONVERSION FACTOR	EWU GAL/YEAR	
49.4	.5	736	.81	.62	13,914	
ESTIMATED TOTAL WATER USE (ETWU)						178,148
MAWA (MAXIMUM APPLIED WATER ALLOWANCE)						
ETO	ET ADJUSTMENT FACTOR	TOTAL HA	CONVERSION FACTOR	MAWA		
49.4	0.45	15,214	.62	209,688		
ESTIMATED ANNUAL WATER USE (% OF MAWA)						85%

NAPA SANITATION DISTRICT RECYCLED WATER LINE NOTES	
PRIOR TO CONSTRUCTION, CONTRACTOR TO REFERENCE MOST CURRENT NAPA SANITATION DISTRICT RECYCLED WATER LINE NOTES.	
NAPA SANITATION DISTRICT RECYCLED WATER LINE TESTING	
PRIOR TO CONSTRUCTION, CONTRACTOR TO REFERENCE MOST CURRENT NAPA SANITATION DISTRICT RECYCLED WATER LINE TESTING NOTES.	

LANDSCAPE IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI	GPM	RADIUS
■	HUNTER PCB-8 FLOOR BUBBLER, 1/2" FPT. WITH PURPLE CAP FOR RECLAIMED WATER USE.	46	30	0.25	3'
■	MANUFACTURER/MODEL/DESCRIPTION	QTY			
■	HUNTER IC2-101-40 DRIP CONTROL ZONE KIT. 1" ICV GLOBE VALVE WITH 1" HY100 FILTER SYSTEM. PRESSURE REGULATION: 40PSI, FLOW RANGE: 2 GPM TO 20 GPM. 150 MESH STAINLESS STEEL SCREEN.	7			
⊕	NETAFIM 105DMV-1 AUTOMATIC FLUSH VALVE, 1/2" MALE PIPE THREAD.	27			
⊕	NETAFIM 65ARIA075 3/4" MALE PIPE THREAD GUARDIAN AIR/VACUUM RELIEF VENT. INSTALL IN SUBSURFACE SYSTEMS ON SLOPING TERRAIN TO PREVENT COLLAPSING OF PIPES. UV RESISTANT. MAXIMUM PRESSURE: 150 PSI.	27			
■	AREA TO RECEIVE DRIPLINE NETAFIM LRW-06-18-NP TECHLINE RW LANDSCAPE DRIPLINE WITH PURPLE STRIPE FOR NON-POTABLE WATER APPLICATIONS. 0.6 GPH EMITTERS AT 18" O.C. DRIPLINE LATERALS SPACED AT 18" APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN. DESIGNED FOR RECLAIMED WATER USE ONLY.	14,478 L.F.			
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY			
⊕	HUNTER ICV-0-NPT-FS-AS-ADJ 1", 1-1/2", 2", AND 3" PLASTIC ELECTRIC REMOTE CONTROL VALVES, GLOBE CONFIGURATION, WITH NPT THREADED INLET/OUTLET, FOR COMMERCIAL/MUNICIPAL USE. WITH FILTER SENTRY FACTORY INSTALLED OPTION.	3			
■	RAIN BIRD 44-LRC 1" BRASS QUICK-COUPLING VALVE, WITH CORROSION-RESISTANT STAINLESS STEEL SPRING, LOCKING THERMOPLASTIC RUBBER COVER, AND 2-PIECE BODY.	9			
⊗	MATCO-NORCA 513T 3/4"-2" BRONZE GATE VALVE, FULL PORT, HEAVY DUTY, NON-RISING STEM, IPS, WHEEL HANDLE. SAME SIZE AS MAINLINE PIPE.	2			
⊗	NIBCO T-580-A REFER TO DETAIL N, SHEET LS-05.BRASS BALL VALVE SHUT OFF VALVE, THREADED END CONNECTIONS, 1/2" TO 3". SIZE TO MAINLINE. ALL BALL VALVES TO BE INSTALLED SO THE HANDLE IS OPERATED VERTICALLY.	17			
⊕	HUNTER IC-1800-PED-SS MODULAR CONTROLLER, 18 STATIONS, OUTDOOR MODEL, STAINLESS STEEL PEDESTAL, COMMERCIAL USE. WITH TWO ICM-600 MODULES INCLUDED.	1			
⊕	HUNTER WSS WIRELESS SOLAR, RAIN FREEZE SENSOR WITH OUTDOOR INTERFACE, CONNECTS TO HUNTER PCC, PRO-5, AND L-CORE CONTROLLERS. INSTALL AS NOTED. INCLUDES 1 YEAR LITHIUM BATTERY AND RUBBER MODULE COVER, AND GUTTER MOUNT BRACKET.	1			
PR	PRESSURE REGULATOR 2" WATTS PRESSURE REGULATOR. SET DISCHARGE PRESSURE TO 60PSI	1			
RS	RECYCLED WATER SIGN	6			
S	SWING CHECK VALVE 2" SWING CHECK VALVE	1			
Y	WYE STRAINER 2" WATTS WYE STRAINER W/ 30 MESH SCREEN	1			
WM	WATER METER 1-1/2" RECYCLED WATER METER - SEE CIVIL PLANS	1			
IRRIGATION LATERAL LINE: PVC SCHEDULE 40 PURPLE PIPE FOR RECLAIMED WATER		3,177 L.F.			
IRRIGATION MAINLINE: PVC SCHEDULE 40 PURPLE PIPE FOR RECLAIMED WATER		2,739 L.F.			
PIPE SLEEVE: PVC SCHEDULE 40		381.4 L.F.			



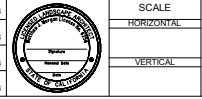
NOTE: CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF THIS LANDSCAPE FOR 90 DAYS FOLLOWING COMPLETION. NO LANDSCAPE IS PROPOSED WITHIN THE PUBLIC ROW. ON-SITE LANDSCAPE WILL BE PRIVATELY OWNED AND MAINTAINED.

WUCOLS PLANT FACTOR: THIS PROJECT IS LOCATED IN WUCOLS REGION 1 - NORTH CENTRAL COASTAL:
 H = HIGH WATER NEEDS
 M = MODERATE WATER NEEDS
 VL = VERY LOW WATER NEEDS

CRITICAL ANALYSIS

Generated:	2018-11-29 14:25
P.O.C. NUMBER: 01	Recycled Water
Water Source Information:	Meter - See Civil Plans
FLOW AVAILABLE	
Water Meter Size:	1-1/2"
Flow Available:	75.00 gpm
PRESSURE AVAILABLE	
Static Pressure at POC:	80.00 psi
Elevation Change:	5.00 ft
Service Line Size:	2"
Length of Service Line:	10.00 ft
Pressure Available:	77.00 psi
DESIGN ANALYSIS	
Maximum Multi-valve Flow:	75.00 gpm
Flow Available at POC:	75.00 gpm
Residual Flow Available:	0.00 gpm
Critical Station:	2
Design Pressure:	10.00 psi
Friction Loss:	1.17 psi
Fittings Loss:	0.12 psi
Elevation Loss:	0.00 psi
Loss through Valve:	43.58 psi
Pressure Req. at Critical Station:	54.87 psi
Loss for Fittings:	0.14 psi
Loss for Main Line:	1.41 psi
Loss for POC to Valve Elevation:	0.00 psi
Loss for Backflow:	0.00 psi
Loss for Water Meter:	11.30 psi
Critical Station Pressure at POC:	67.72 psi
Pressure Available:	77.00 psi
Residual Pressure Available:	9.28 psi

NO	REVISION / SUBMISSION	DATE	DESIGNED BY	DATE
			MORGAN, M.	08/0888
	DRAWN BY		HENRY, W.	08/0888
	CHECKED BY		MADSEN, M.	08/0888
	IN CHARGE		MEYERHOFER, P.	08/0888
1	COUNTY OF NAPA - SUBMITTAL 2	1/9/18		



Kimley Horn

100 W. SAN FERNANDO ST. #250
 SAN JOSE, CA 95113
 (650) 800-4130

NVTA
 NAPA VALLEY TRANSPORTATION AUTHORITY

FLEET MAINTENANCE AND OPERATIONS FACILITY
 96,101 SHEEHY COURT, NAPA, CA

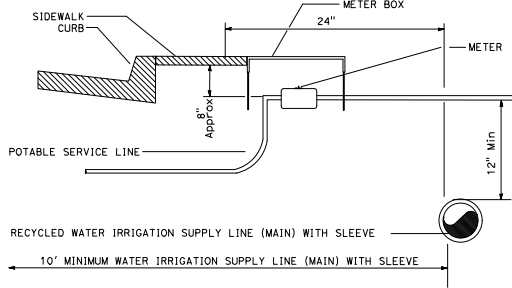
LANDSCAPE IRRIGATION NOTES
 SHEET 5 OF 7

DRAWING NO. L-105
 SHEET NO.

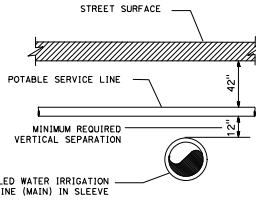
NVTA FLEET MAINTENANCE AND OPERATIONS FACILITY

POTABLE/RECYCLED WATER SERVICE LINE NOTES:

VERTICAL CLEARANCE OF 12" MINIMUM IS MANDATORY WHEN CROSSING PATH OF A POTABLE WATER LINE. INSTALLATION OF RECYCLED WATER IRRIGATION SUPPLY LINE (MAIN) 610 FROM BACK OF SIDEWALK WILL PROVIDE THE NECESSARY 10' HORIZONTAL CLEARANCE FROM THE POTABLE SUPPLY LINE (MAIN) IN THE STREET.

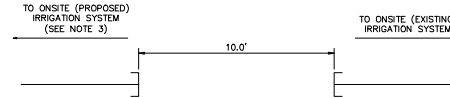


A POTABLE SERVICE LINE CROSSING
NOT TO SCALE NAPA SANITATION DISTRICT STANDARD



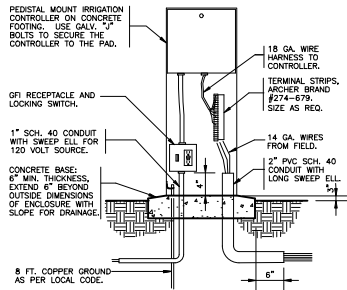
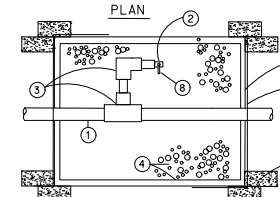
NOTE: ALL RECLAIMED WATER IRRIGATION PIPE AND SLEEVES SHALL BE PURPLE AND LABELED AS SPECIFIED IN THE NAPA SANITATION DISTRICT VOLUME 3 RECYCLED WATER STANDARD SPECIFICATIONS.

B POTABLE MAINLINE CROSSING
NOT TO SCALE NAPA SANITATION DISTRICT STANDARD



- NOTES:**
1. STUBOUTS SHALL BE VISIBLE AT ALL TIMES (12" MIN. ABOVE EXISTING GRADE.
 2. MAINTAIN 10-FOOT MIN. SEPARATION BETWEEN EXISTING AND PROPOSED IRRIGATION SYSTEM AT ALL TIMES DURING CONSTRUCTION.
 3. CONTRACTOR SHALL SATISFY ALL THE REQUIREMENTS OF THE SANITATION DISTRICT STANDARD SPECIFICATIONS AND DRAWINGS PRIOR TO SCHEDULING FINAL CONNECTION WITH NAPA SANITATION DISTRICT.
 4. CONTRACTOR SHALL PERFORM FINAL CONNECTION WITH DISTRICT REPRESENTATIVE(S) PRESENT AT TIME OF FINAL CONNECTION BETWEEN EXISTING AND PROPOSED IRRIGATION SYSTEMS.

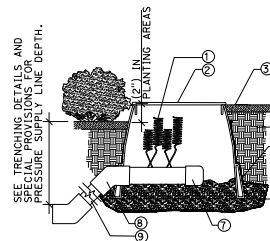
C 10' SEPARATION DETAIL
NOT TO SCALE NAPA SANITATION DISTRICT STANDARD



- NOTES:**
1. 10" ROUND VALVE BOX W/BOLT DOWN COVER, STL. BOLT, WASHER
 2. LOW VOLTAGE CONTROL WIRE COIL, 24" MINIMUM
 3. PVC/ELECT. TAPE, WRAP WIRE BUNDLE
 4. UNDISTURBED SOIL/COMPACTED SOIL
 5. SEAL CONDUIT ENDS WITH AEROSOL FOAM SEALANT
 6. LANDSCAPE FILTER FABRIC (MIRAF) #140N
 7. 1 CU. FT. MIN. 3/4" CRUSHED ROCK SUMP
 8. PVC SCH. 40 ELECT. CONDUIT/ SWEEP WHERE REQUIRED*
 9. TOP OF BOX LID 1" ABOVE FINISH GRADE IN PLANTING AREA
 10. FINISH GRADE

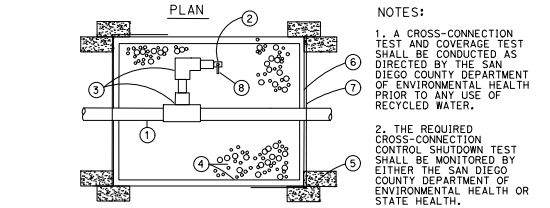
D PEDESTAL MOUNT CONTROLLER
1" = 1'-0" 32 8409-13-04

E CONTROL WIRE PULL BOX
NOT TO SCALE



NOTE: PULL REQUIRED SPARE 14AWG WIRES TO EACH SPARE WIRE BOX INDICATED ON THE PLANS. ALL SPARE WIRES SHALL BE GREEN IN COLOR. WATER PROOF THE BARE WIRE ENDS WITH EPOXY.

F SPARE WIRE BOX
NOT TO SCALE

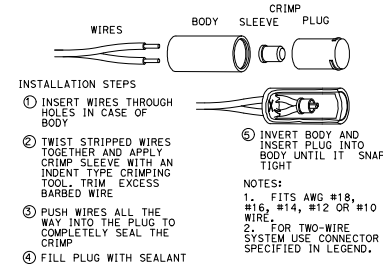


- NOTES:**
1. A CROSS-CONNECTION TEST AND COVERAGE TEST SHALL BE CONDUCTED AS DIRECTED BY THE SAN DIEGO COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH PRIOR TO ANY USE OF RECYCLED WATER.
 2. THE REQUIRED CROSS-CONNECTION CONTROL SHUTDOWN TEST SHALL BE MONITORED BY EITHER THE SAN DIEGO COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH OR STATE HEALTH.

SPECIFICATION	MINIMUM REQUIREMENT
NON SHOCK COLD WATER WORKING PRESSURE	400 PSI
SEATS	TFE (TEFLON)
O RING SEALS	TFE (TEFLON)

BALL VALVES SHALL HAVE A TWO PIECE BRASS OR BRONZE BODY, FULL PORT BODY, AND SHALL CONFORM TO THE FOLLOWING:

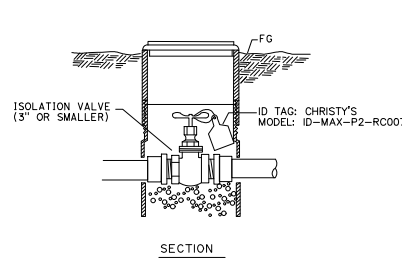
G BALL VALVE CROSS CONNECTION CONTROL TEST STATION (BVCCCTS)
NOT TO SCALE



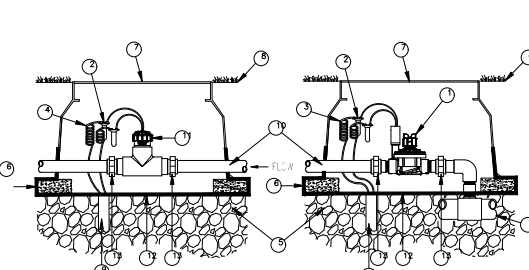
NOTES:

1. FITS AWG #18, #16, #14, #12 OR #10 WIRE.
2. FOR TWO-WIRE SYSTEM USE CONNECTOR SPECIFIED IN LEGEND.

H WIRE CONNECTOR
NOT TO SCALE



I SIGN/TAG FOR RW IRRIGATION VALVES
NOT TO SCALE



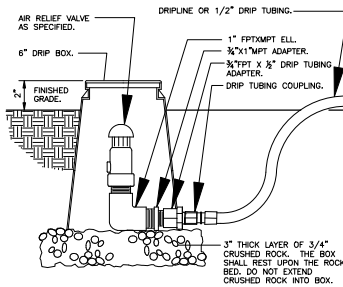
1. BRASS MASTER VALVE: MODEL: HUNTER 8V
2. WATERPROOF SPLICE CONNECTION (1 OF 2)
3. 36-INCH LENGTH OF COILED WIRE TO CONTROLLER ASSEMBLY MASTER VALVE CIRCUIT
4. 36-INCH LENGTH OF COILED PE-CABLE TO FLOW SENSING EQUIPMENT AT CONTROLLER ASSEMBLY
5. 3.0-INCH MINIMUM DEPTH OF 3/4-INCH CRUSHED ROCK
6. BRICK (4 PER VALVE BOX)
7. CONCRETE VALVE BOX WITH LOCKABLE COVER - 12" SIZE
8. FINISH GRADE
9. PVC SCH 80 ELECTRICAL CONDUIT TO CONTROLLER
10. COPPER OR BRASS MAINLINE PIPE
11. FLOW SENSOR
12. PROTECT DETERENT GALV. STEEL 1/4" MESH & BLACK LANDSCAPE FABRIC - WRAP 6" UP SIDES
13. PVC SCH 80 UNIONS

NOTE: INLET PIPE LENGTH FOR FLOW SENSOR MUST BE MIN. 10X PIPE DIA. STRAIGHT, CLEAN RUN OF PIPE. NO FITTINGS OR TURNS. OUTLET PIPE LENGTH FOR FLOW SENSOR MUST BE MIN. 5X PIPE DIA. OF STRAIGHT CLEAN RUN OF PIPE, NO FITTINGS OR TURNS.

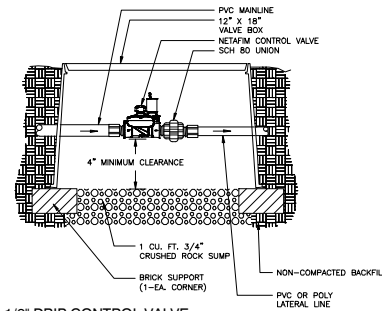
J MASTER VALVE AND FLOW SENSOR
NOT TO SCALE

NO.	REVISION / SUBMISSION	DATE	DESIGNED BY	DATE	SCALE		Kimley Horn 100 W. SAN FERNANDO ST. #250 SAN JOSE, CA 95113 (650) 800-4130	 NAPA VALLEY TRANSPORTATION AUTHORITY FLEET MAINTENANCE AND OPERATIONS FACILITY 96,101 SHEEHY COURT, NAPA, CA	DRAWING NO.		
			DRAWN BY		HORIZONTAL						L-106
			CHECKED BY		VERTICAL						SHEET NO.
1	COUNTY OF NAPA - SUBMITTAL 2	1/9/18	IN CHARGE	MEYERHOFER, P.	08/08/88						

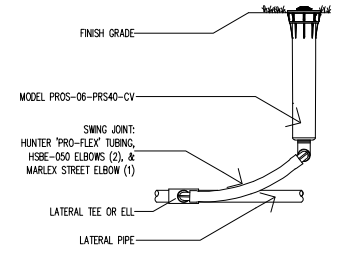
NMTA FLEET MAINTENANCE AND OPERATIONS FACILITY



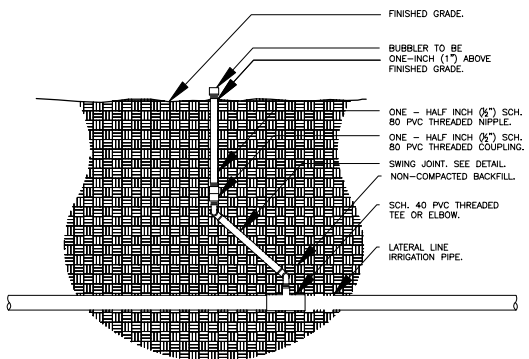
(K) DRIP AIR RELIEF VALVE IN BOX
3" = 1'-0"
FX-IR-FX-DRIP-08



(L) 1-1/2\"/>

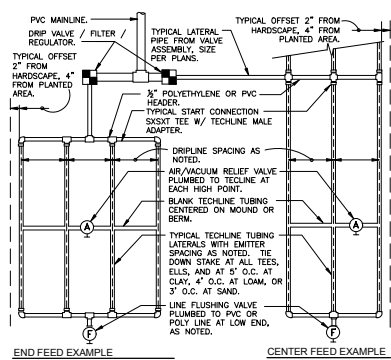


(M) PROS-06-PRS40-CV - MP ROTATOR SPRINKLER
3" = 1'-0"
IR-HU-MPR-PROS-01



- NOTES:**
- SEE IRRIGATION LEGEND FOR LATERAL LINE SIZE AND TYPE.
 - ALL IRRIGATION FITTINGS SHALL BE SCH. 40 PVC UNLESS SPECIFIED OTHERWISE.
 - ALL THREADED CONNECTIONS FROM SCH. 80 TO SCH. 40 PVC SHALL BE MADE USING TEFLON TAPE.
 - CONTRACTOR SHALL SETTLE THE AREA AROUND THE BUBBLER AFTER INSTALLATION.

(N) BUBBLER ON RISER
3" = 1'-0"



(O) TYPICAL NETAFIM TECHLINE REQUIREMENTS
3" = 1'-0"

SLOPED CONDITION NOTES:

- DRIPLINE LATERALS SHOULD FOLLOW THE CONTOURS OF THE SLOPE WHENEVER POSSIBLE.
- INSTALL AIR RELIEF VALVE AT HIGHEST POINT.
- TECHLINE NORMAL SPACING WITHIN THE TOP 1/3 OF SLOPE.
- INSTALL TECHLINE AT NORMAL SPACING PLUS 20% AT THE BOTTOM 2/3 OF THE SLOPE.
- WHEN ELEVATION CHANGE IS 10 FT OR MORE, ZONE THE BOTTOM 1/3 ON A SEPARATE VALVE.

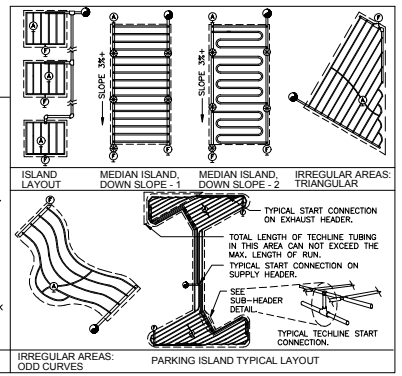
TECHLINE MAXIMUM LENGTH OF SINGLE LATERAL (FEET)

DRIPLINE SPACING (IN)	12"			18"			24"		
	0.4	0.6	0.9	0.4	0.6	0.9	0.4	0.6	0.9
15	292	233	175	410	322	247	405	308	
25	397	321	238	558	438	335	553	423	
35	486	365	279	656	514	394	649	497	
45	520	407	311	732	574	439	725	555	

TECHLINE FLOW PER 100 FEET

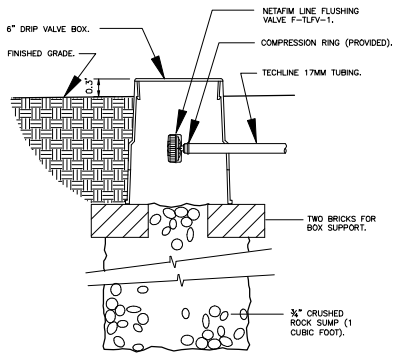
DRIPLINE SPACING	0.4 GPH DRIPPER		0.6 GPH DRIPPER		0.9 GPH DRIPPER	
	GPH	GPM	GPH	GPM	GPH	GPM
12"	40.00	0.67	61.00	1.02	92.00	1.53
18"	26.67	0.44	41.00	0.68	61.00	1.02
24"	N/A	N/A	31.00	0.51	46.00	0.77

- EXAMPLES LEGEND**
- WATER SOURCE: DRIP VALVE OR LATERAL FROM VALVE.
 - TYPICAL SUPPLY HEADERS.
 - TYPICAL TECHLINE DRIPPER LINE TUBING.
 - TYPICAL PVC OR POLY SUPPLY OR EXHAUST HEADERS.
 - LINE FLUSHING VALVE PLUMBED TO PVC OR POLY.
 - AIR/VACUUM RELIEF VALVE, INSTALLED AT HIGH POINT OF SYSTEM.
 - IN-LINE SPRING CHECK VALVE FOR LOW HEAD DRAINAGE.

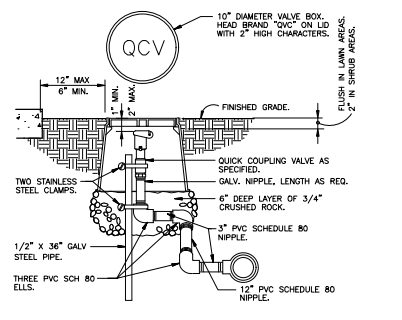


- NOTES:**
- CONTROL WIRE W/ 24" COILED EXPANSION LOOP.
 - WATERPROOF WIRE CONNECTOR.
 - RECYCLED WATER I.D. TAG. (NYLON TIE THROUGH HOLE IN TAG).
 - FINISH GRADE.
 - NON-COMPACTED NATIVE BACKFILL.
 - RECTANGULAR VALVE BOX. SEE SPECS. (DO NOT CUT ADDITIONAL HOLES IN BOX).
 - CONTROL VALVE PER LEGEND, SEE PLAN FOR SIZE.
 - PVC SCH 80 MALE ADAPTER, (2) (ST) REQUIRED.
 - SUPPLY LINE FROM MANIFOLD.
 - NON-PRESSURE LATERAL LINE. SEE PLAN FOR SIZE.
 - GRAVEL BASE AND SUMP. (COMPACT GRAVEL FOR BOX BASE, DO NOT USE BLOCKS OR BRICKS, FILL GRAVEL TO BOTTOM OF VALVE).
 - 3" SCH 80 SINGLE LUNION, MPT X FIFT MODEL.
 - FILTER FABRIC. WRAP 1 LAYER AROUND BOX COVERING HOLES.
 - NOTE: USE TEFLON TAPE ON ALL THREADED CONNECTIONS.

(P) REMOTE CONTROL VALVE ASSEMBLY
NOT TO SCALE

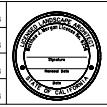


(Q) NETAFIM TECHLINE FLUSH VALVE
3" = 1'-0"



(R) QUICK COUPLING VALVE IN BOX
1 1/2" = 1'-0"

NO	REVISION / SUBMISSION	DATE	DESIGNED BY	DATE
			MORGAN, M.	08/0888
			HENRY, W.	08/0888
			MADSEN, M.	08/0888
1	COUNTY OF NAPA - SUBMITTAL 2	1/9/18	MEYERHOFER, P.	08/0888



SCALE
HORIZONTAL
VERTICAL

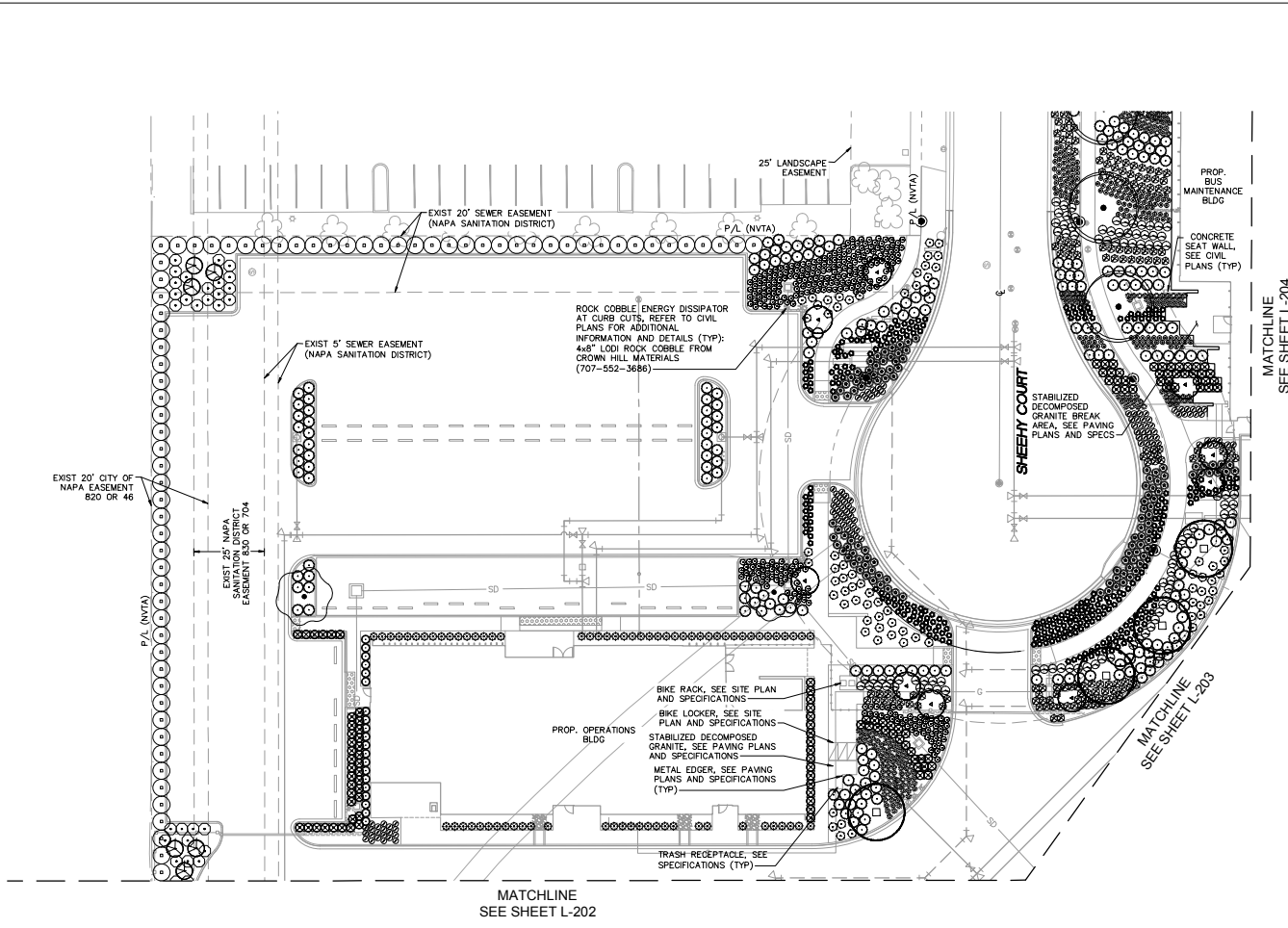
Kimley Horn
100 W. SAN FERNANDO ST. #250
SAN JOSE, CA 95113
(650) 800-4130

NVTA
NAPA VALLEY TRANSPORTATION AUTHORITY
FLEET MAINTENANCE AND OPERATIONS FACILITY
96,101 SHIEHY COURT, NAPA, CA

LANDSCAPE IRRIGATION DETAILS
SHEET 7 OF 7

DRAWING NO.
L-107
SHEET NO.

NVTA FLEET MAINTENANCE AND OPERATIONS FACILITY

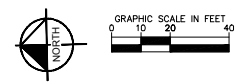


LANDSCAPE PLANTING LEGEND

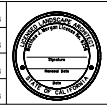
TREES	
CODE	BOTANICAL / COMMON NAME
CM	CEROS X 'MERLOT' MERLOT REBUD
GA	GINKGO BILOBA 'AUTUMN GOLD'™ MAIDENHAIR TREE
PC	PLATANUS X ACERIFOLIA 'COLUMBIA' LONDON PLANE TREE
OD	QUERCUS DOUGLASSII BLUE OAK
SHRUBS	
CODE	BOTANICAL / COMMON NAME
AT	AGAVE PARRYI 'TRUNCATA' PARRY'S AGAVE
AH	ARCTOSTAPHYLOS DENSIFLORA 'HOWARD MCMINN' HOWARD MCMINN MANZANITA
AM2	ARCTOSTAPHYLOS X 'EMERALD CARPET' EMERALD CARPET MANZANITA
BB	BOUTELOUJA GRACILIS 'BLONDE AMBITION' BLUE GRAMA
CK	CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER' FEATHER REED GRASS
CN	CAREX NUDATA CALIFORNIA BLACK-FLOWERING SEDGE
CP	CAREX PANSA SANDDUNE SEDGE
EG	ERIOGONUM GRANDE RUBESCENS RED BUCKWHEAT
FC	FESTUCA CALIFORNICA CALIFORNIA FESCUE
FI	FESTUCA IDAHOENSIS IDAHO FESCUE
JP	JUNCUS PATENS CALIFORNIA GRAY RUSH
LC	LEYMUS CONDENSATUS 'CANYON PRINCE' NATIVE BLUE RYE
MR	MUHLENBERGIA RIGENS DEER GRASS
MC	MYRICA CALIFORNICA PACIFIC WAX MYRTLE
RE	RHAMNUS CALIFORNICA 'EVE CASE' CALIFORNIA COFFEEBERRY
RS	RIBES VIBURNIFOLIUM 'SPOONER'S MESA' SAN DIEGO EVERGREEN CURRRANT
SS	SALVA SONOMENSIS CREEPING SAGE
GROUND COVERS	
CODE	BOTANICAL / COMMON NAME
HS	HYDROSEED NATIVE SEED MIX REFERENCE SPECIFICATIONS AND SPECIAL PROVISIONS FOR SEED MIX, APPLICATION RATES, AND ADDITIONAL INFORMATION.

NOTE TO CONTRACTOR

- FOR FULL LANDSCAPE LANDSCAPE PLANTING, REFER TO SHEET L-206
- CONTRACTOR TO FAMILIARIZE HIM/HERSELF WITH NOTES, DETAILS AND SPECIFICATIONS PRIOR TO START OF CONSTRUCTION. REFER TO SHEET L-206 FOR DETAILS.



NO	REVISION / SUBMISSION	DATE	DESIGNED BY	DATE
			MORGAN, M.	08/08/18
			HENRY, W.	08/08/18
			MADSEN, M.	08/08/18
			MEYERHOFER, P.	08/08/18



SCALE	
HORIZONTAL	1" = 20'
VERTICAL	1" = 20'

Kimley Horn

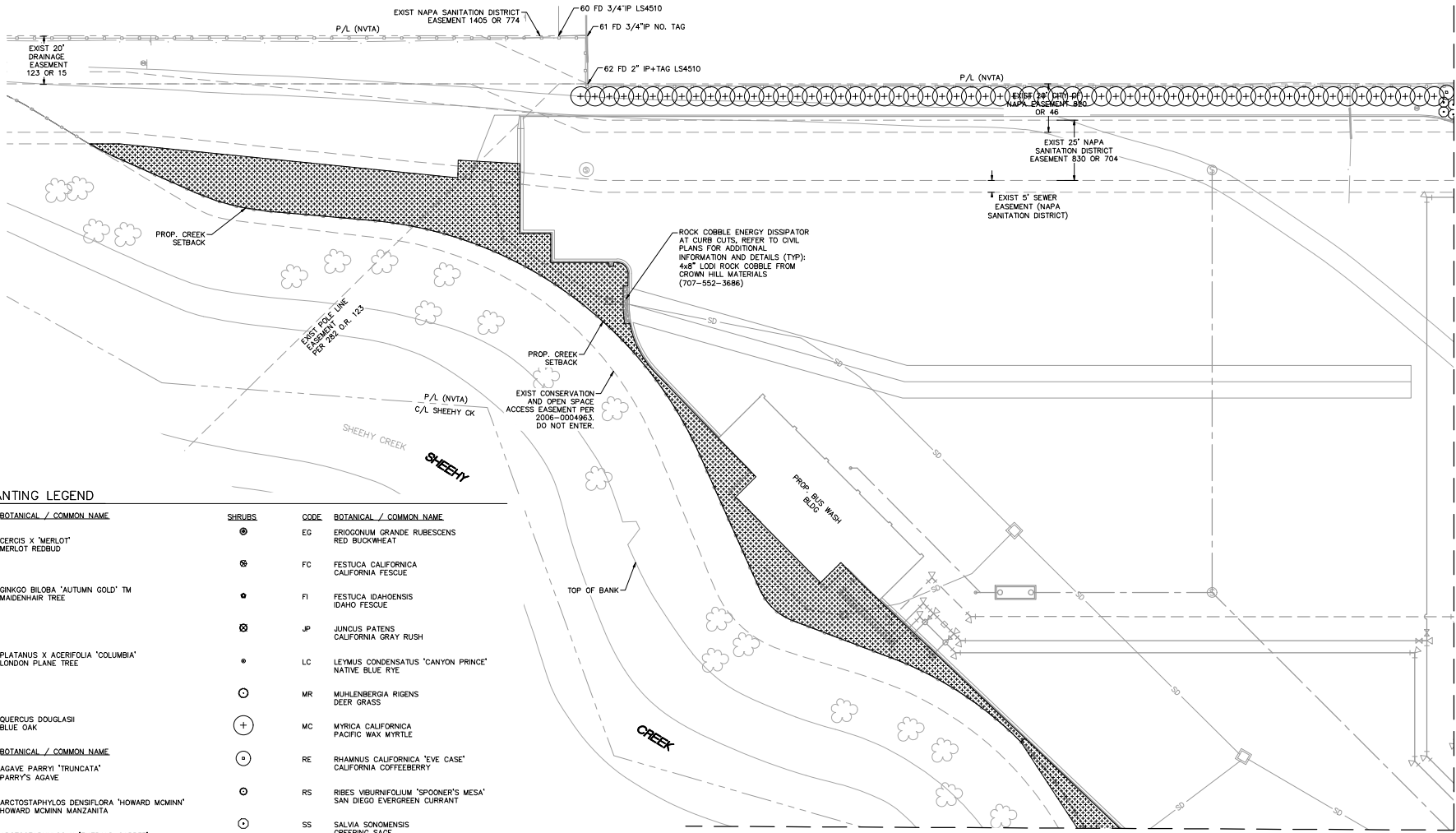
100 W. SAN FERNANDO ST. #250
SAN JOSE, CA 95113
(650) 800-4130

NVTA
NAPA VALLEY TRANSPORTATION AUTHORITY
FLEET MAINTENANCE AND OPERATIONS FACILITY
96,101 SHEEHY COURT, NAPA, CA

LANDSCAPE PLANTING PLAN
SHEET 1 OF 7

DRAWING NO. L-201
SHEET NO.

NVTA FLEET MAINTENANCE AND OPERATIONS FACILITY

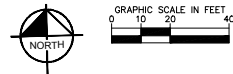


LANDSCAPE PLANTING LEGEND

TREES	CODE	BOTANICAL / COMMON NAME	SHRUBS	CODE	BOTANICAL / COMMON NAME
	CM	CERO'S X 'MERLOT' MERLOT REDBLD		EG	ERIOGONUM GRANDE RUBESCENS RED BUCKWHEAT
	GA	GINKGO BILOBA 'AUTUMN GOLD' TM MAIDENHAIR TREE		FC	FESTUCA CALIFORNICA CALIFORNIA FESCUE
	PC	PLATANUS X ACERIFOLIA 'COLUMBIA' LONDON PLANE TREE		FI	FESTUCA IDAHOENSIS IDAHO FESCUE
	QD	QUERCUS DOUGLASII BLUE OAK		JP	JUNCUS PATENS CALIFORNIA GRAY RUSH
	AT	AGAVE PARRYI 'TRUNCATA' PARRY'S AGAVE		LC	LEYMUS CONDENSATUS 'CANYON PRINCE' NATIVE BLUE RYE
	AH	ARCTOSTAPHYLOS BENSILIFLORA 'HOWARD MOMINI' HOWARD MOMINI MANZANITA		MR	MUHLENBERGIA RIGENS DEER GRASS
	AM2	ARCTOSTAPHYLOS X 'EMERALD CARPET' EMERALD CARPET MANZANITA		MC	MYRICA CALIFORNICA PACIFIC WAX MYRTLE
	BB	BOUTELOUJA GRACILIS 'BLONDE AMBITION' BLUE GRAMA		RE	RHAMNUS CALIFORNICA 'EVE CASE' CALIFORNIA COFFEEBERRY
	CK	CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER' FEATHER REED GRASS		RS	RIBES VIBURNIFOLIUM 'SPOONER'S MESA' SAN DIEGO EVERGREEN CURRANT
	CN	CAREX HUIDATA CALIFORNIA BLACK-FLOWERING SEDGE		SS	SALVIA SONOMENSIS CREEPING SAGE
	CP	CAREX PANSA SANDDUNE SEDGE		HS	HYDROSEED NATIVE SEED MIX REFERENCE SPECIFICATIONS AND SPECIAL PROVISIONS FOR SEED MIX, APPLICATION RATES, AND ADDITIONAL INFORMATION.

NOTE TO CONTRACTOR

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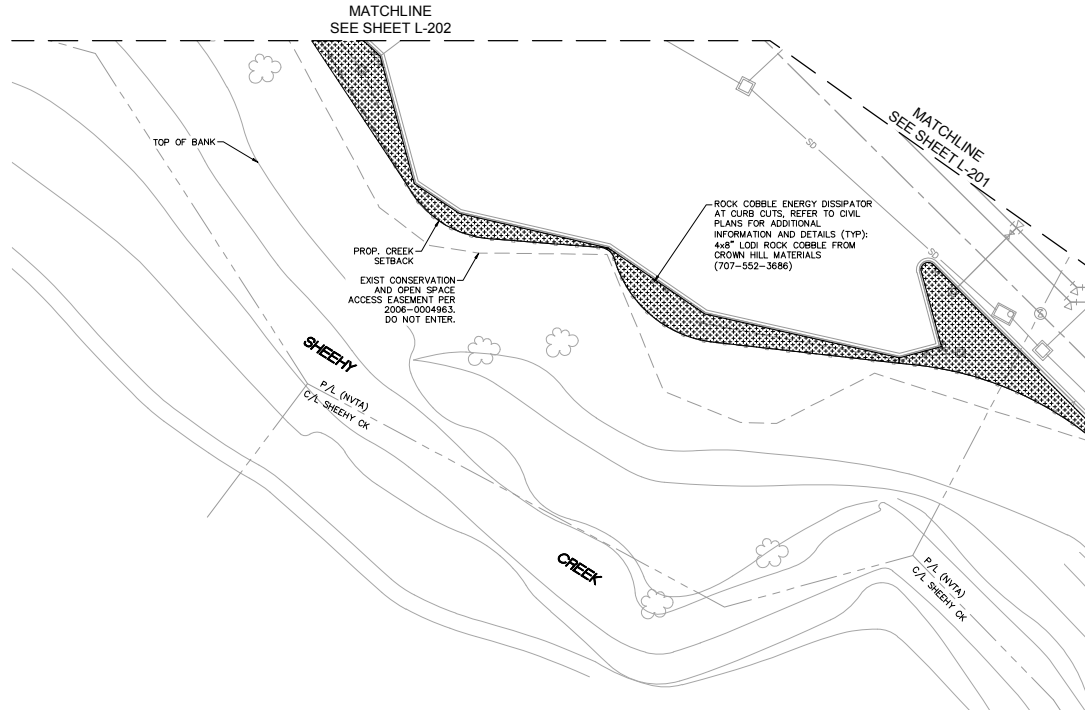


NO	REVISION / SUBMISSION	DATE	DESIGNED BY MORGAN, M.	DATE 08/08/18		SCALE			LANDSCAPE PLANTING PLAN SHEET 2 OF 7	DRAWING NO.
			DRAWN BY HENRY, W.	DATE 08/08/18		HORIZONTAL				L-202
			CHECKED BY MADSEN, M.	DATE 08/08/18		VERTICAL				SHEET NO.
			IN CHARGE MEYERHOFER, P.	DATE 08/08/18		1" = 20'				
1	COUNTY OF NAPA - SUBMITTAL 2	1/9/18				100 W. SAN FERNANDO ST. #250 SAN JOSE, CA 95113 (650) 800-4130	96,101 SHEEHY COURT, NAPA, CA			

NAPA FLEET MAINTENANCE AND OPERATIONS FACILITY

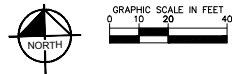
LANDSCAPE PLANTING LEGEND

TREES	CODE	BOTANICAL / COMMON NAME
	CM	CERIS X 'MERLOT' MERLOT REDBUD
	GA	GINKGO BILOBA 'AUTUMN GOLD' TM MAIDENHAIR TREE
	PC	PLATANUS X ACERIFOLIA 'COLUMBIA' LONDON PLANE TREE
	OD	QUERCUS DOUGLASSII BLUE OAK
SHRUBS	CODE	BOTANICAL / COMMON NAME
	AT	AGAVE PARRYI 'TRUNCATA' PARRY'S AGAVE
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	CN	CAREX NUDATA CALIFORNIA BLACK-FLOWERING SEDGE
	CP	CAREX PANSA SANDDUNE SEDGE
	EG	ERIOGONUM GRANDE RUBESCENS RED BUCKWHEAT
	FC	FESTUCA CALIFORNICA CALIFORNIA FESCUE
	FI	FESTUCA IDAHOENSIS IDAHO FESCUE
	JP	JUNCUS PATENS CALIFORNIA GRAY RUSH
	LC	LEYMUS CONDENSATUS 'CANYON PRINCE' NATIVE BLUE RYE
	MR	MUHLENBERGIA RIGENS DEER GRASS
	MC	MYRICA CALIFORNICA PACIFIC WAX MYRTLE
	RE	RHAMNUS CALIFORNICA 'EVE CASE' CALIFORNIA COFFEEBERRY
	RS	RIBES VIBURNIFOLIUM 'SPOONER'S MESA' SAN DIEGO EVERGREEN CURRRANT
	SS	SALVA SONOMENSIS CREEPING SAGE
GROUND COVERS	CODE	BOTANICAL / COMMON NAME
	HS	HYDROSEED NATIVE SEED MIX REFERENCE SPECIFICATIONS AND SPECIAL PROVISIONS FOR SEED MIX, APPLICATION RATES, AND ADDITIONAL INFORMATION.



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			HENRY, W.	08/08/18
			MADSEN, M.	08/08/18
			MEYERHOFER, P.	08/08/18
1	COUNTY OF NAPA - SUBMITTAL 2	1/9/18		



SCALE
HORIZONTAL
1" = 20'
VERTICAL
1" = 20'

Kimley Horn

100 W. SAN FERNANDO ST. #250
SAN JOSE, CA 95113
(650) 800-4130

NVTA
NAPA VALLEY TRANSPORTATION AUTHORITY

FLEET MAINTENANCE AND OPERATIONS FACILITY
96,101 SHEEHY COURT, NAPA, CA

LANDSCAPE PLANTING PLAN
SHEET 3 OF 7

DRAWING NO.

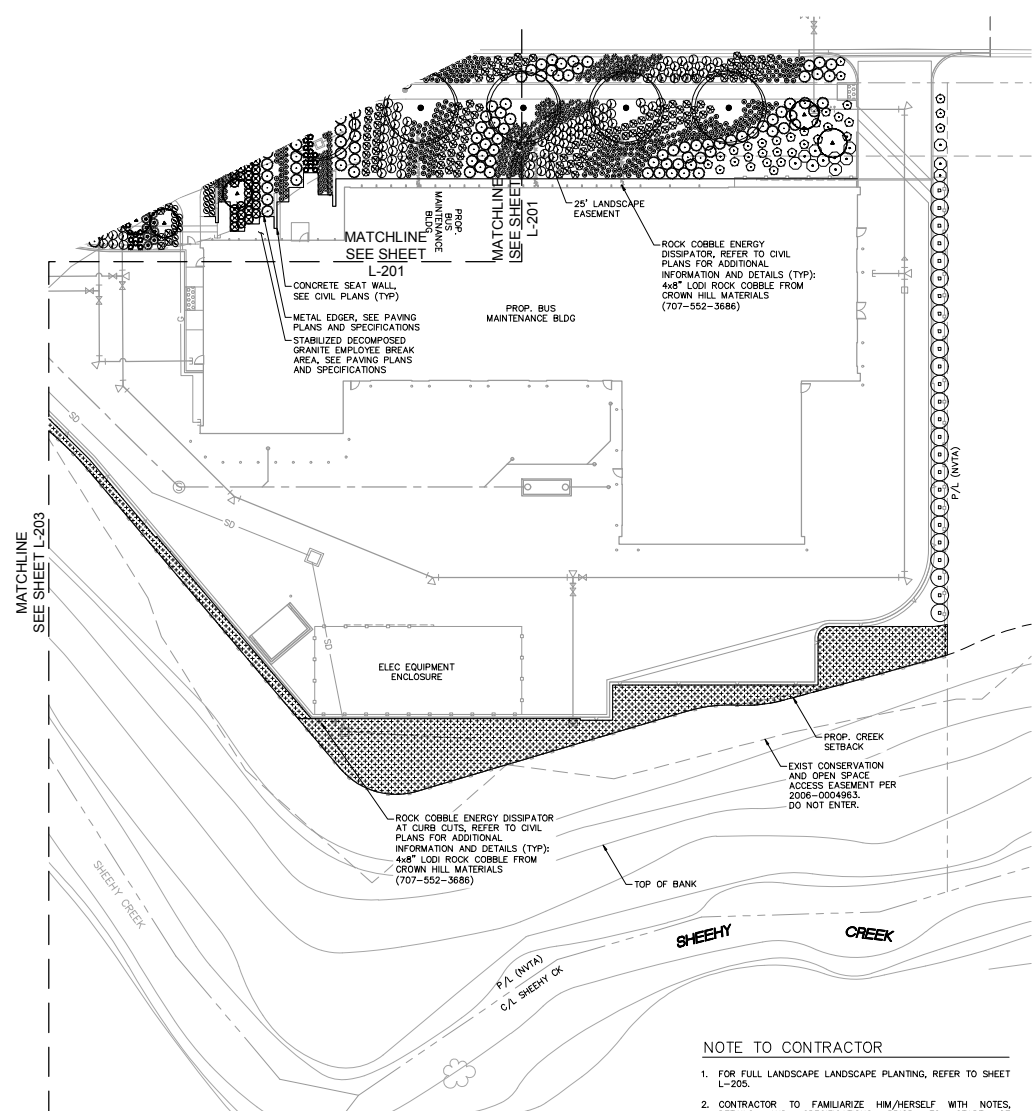
L-203

SHEET NO.

NVTA FLEET MAINTENANCE AND OPERATIONS FACILITY

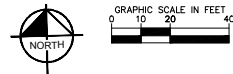
LANDSCAPE PLANTING LEGEND

TREES	CODE	BOTANICAL / COMMON NAME
	CM	CERIS X 'MERLOT' MERLOT REDBUD
	GA	GINKGO BILOBA 'AUTUMN GOLD' TM MAIDENHAIR TREE
	PC	PLATANUS X ACERIFOLIA 'COLUMBIA' LONDON PLANE TREE
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SHRUBS	CODE	BOTANICAL / COMMON NAME
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	EG	ERIOGONUM GRANDE RUBESCENS RED BUCKWHEAT
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	MR	MUHLENBERGIA RIGENS DEER GRASS
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	RE	RHAMNUS CALIFORNICA 'EVE CASE' CALIFORNIA COFFEEBERRY
	RS	RIBES VIBURNIFOLIUM 'SPOONER'S MESA' SAN DIEGO EVERGREEN CURRRANT
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GROUND COVERS	CODE	BOTANICAL / COMMON NAME
	HS	HYDROSEED NATIVE SEED MIX REFERENCE SPECIFICATIONS AND SPECIAL PROVISIONS FOR SEED MIX, APPLICATION RATES, AND ADDITIONAL INFORMATION.



NOTE TO CONTRACTOR

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NO	REVISION / SUBMISSION	DATE	DESIGNED BY MORGAN, M.	DATE 08/08/18		SCALE HORIZONTAL 1" = 20' VERTICAL 1" = 20'	 100 W. SAN FERNANDO ST. #250 SAN JOSE, CA 95113 (650) 800-4130	 NAPA VALLEY TRANSPORTATION AUTHORITY FLEET MAINTENANCE AND OPERATIONS FACILITY 96,101 SHEEHY COURT, NAPA, CA	DRAWING NO. L-204 SHEET NO.
			DRAWN BY HENRY, W.	DATE 08/08/18					
			CHECKED BY MADSEN, M.	DATE 08/08/18					
			IN CHARGE MEYERHOFER, P.	DATE 08/08/18					
1	COUNTY OF NAPA - SUBMITTAL 2	1/9/18							

NVRTA FLEET MAINTENANCE AND OPERATIONS FACILITY

PLANTING NOTES

- CONTRACTOR SHALL REFER TO THE LANDSCAPE PLANTING DETAILS, PLANT SCHEDULE, GENERAL NOTES, SPECIFICATIONS AND ALL CONTRACT DOCUMENTS FOR FURTHER AND COMPLETE INSTRUCTIONS.
- PLANT QUANTITIES ARE PROVIDED FOR CONVENIENCE IN THE EVENT OF QUANTITY DISCREPANCIES THE DRAWING SHALL TAKE PRECEDENCE. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
- ANY SUBSTITUTION IN SIZE AND/OR PLANT MATERIAL MUST BE APPROVED BY THE LANDSCAPE ARCHITECT IN WRITING. ALL PLANTS WILL BE SUBJECT TO APPROVAL BY THE LANDSCAPE ARCHITECT BEFORE PLANTING CAN BEGIN.
- THE LANDSCAPE ARCHITECT HAS LOCATED PLANT MATERIAL AND HARDSCAPE FEATURES TO AVOID CONFLICTS WITH EXISTING AND PROPOSED UTILITIES. BASED ON THE ACCURACY OF SURVEY AND RECORD DRAWINGS CONTRACTOR SHALL FIELD ADJUST LOCATION OF PLANT MATERIAL AND HARDSCAPE FEATURES AS NECESSARY TO AVOID DAMAGE TO ALL EXISTING UNDERGROUND UTILITIES AND/OR EXISTING ABOVE GROUND ELEMENTS. ALL CHANGES REQUIRED SHALL BE COMPLETED AT THE CONTRACTOR'S EXPENSE AND SHALL BE COORDINATED WITH THE ENGINEER.
- ANY DAMAGE OR DISTURBANCE TO THE EXISTING LANDSCAPE AREAS SHALL BE CORRECTED AND COMPLETED AT THE CONTRACTOR'S EXPENSE. WORK SHALL BE COORDINATED WITH THE ENGINEER.
- CONTRACTOR SHALL FAMILIARIZE HIM/HERSELF WITH THE LIMITS OF WORK AND EXISTING CONDITIONS AND VERIFY ALL INFORMATION. IF DISCREPANCIES EXIST, CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT IN WRITING WITHIN SEVEN CALENDAR DAYS PRIOR TO PERFORMING LANDSCAPE WORK.
- MULCH: PREMIUM NO-FLOAT SHREDDED CYPRESS MULCH AT 3" THICKNESS MINIMUM - NATURAL BROWN. COLORED MULCH WILL NOT BE ACCEPTED.
- ALL NEW TREES WITH IN 4' OF HARDSCAPE SHALL RECEIVE ROOT CONTROL BARRIERS. INSTALL ALL TREES WITH A MINIMUM OF 7" SEPARATION FROM ALL UTILITIES. UNLESS A ROOT-BARRIER IS UTILIZED, INSTALL ROOT BARRIER PER MANUFACTURER SPECIFICATION. ROOT BARRIER SHALL EXTEND 10 FEET LINEARLY BEYOND TREE TRUNK IN EACH DIRECTION (20 FEET OF ROOT BARRIER ON EACH SIDE, 2 SIDES TOTAL) PLACED DIRECTLY ADJACENT TO THE HARDSCAPE IT IS PROTECTING.
- THE CONTRACTOR SHALL MAINTAIN PLANTED AREAS DURING THE 90 DAY PLANT ESTABLISHMENT PERIOD BY MEANS OF CONTINUOUS WATERING, PRUNING, RAISING TREE ROOT BALLS WHICH SETTLE BELOW GRADE, APPLICATION OF SPRAYS WHICH ARE NECESSARY TO KEEP THE PLANTINGS FREE OF INSECTS AND DISEASES, FERTILIZING, WEEDING, MOWING, EDGING AND/OR OTHER OPERATIONS NECESSARY FOR PROPER CARE AND UPKEEP.
- IF CONSTRUCTION OF PROPOSED IMPROVEMENTS ON THESE PLANS AFFECTS EXISTING LANDSCAPES, IRRIGATION SYSTEMS, OR HARDSCAPE FEATURES INTENDED TO REMAIN, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING THEM IN-KIND IN A TIMELY MANNER, AT HIS OR HER OWN EXPENSE.
- AFTER COMPLETION OF THE 90-DAY MAINTENANCE PERIOD AND FINAL ACCEPTANCE, THE OWNER SHALL BE RESPONSIBLE FOR MAINTENANCE OF ALL ON-SITE AND OFF-SITE IMPROVEMENTS.























I HAVE COMPLIED WITH THE CRITERIA OF THE AB 1881 ORDINANCE AND APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE LANDSCAPE DESIGN PLAN.

MATTHEW J. MORGAN, PLA 6256

NOTE:
CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF THIS LANDSCAPE FOR 90 DAYS FOLLOWING COMPLETION OF CONSTRUCTION.

WUCOLS PLANT FACTOR:
THIS PROJECT IS LOCATED IN WUCOLS REGION I - NORTH CENTRAL COASTAL.
H = HIGH WATER NEEDS
M = MODERATE WATER NEEDS
L = LOW WATER NEEDS
VL = VERY LOW WATER NEEDS

PLANT SCHEDULE

TREES	CODE	QTY	BOTANICAL NAME / COMMON NAME	CONT.	HEIGHT/SPREAD	CAL.	WUCOLS	
	CM	12	CERCIS X 'MERLOT' / MERLOT REDBUD	24" BOX	9'-11' HT. X 4'-5' SPR.	1" CAL.	LOW	
	GA	3	GINKGO BILOBA 'AUTUMN GOLD' TM / MAIDENHAIR TREE	24" BOX	8-10' HT. X 2-4' SPR.	1" CAL.	MODERATE	
	PC	5	PLATANUS X ACERIFOLIA 'COLUMBIA' / LONDON PLANE TREE	24" BOX	10-12' HT. X 4-5' SPR.	1" CAL.	MODERATE	
	QD	4	QUERCUS DOUGLASHI / BLUE OAK	24" BOX	9'-10' HT. X 3'-4' SPR.	1" CAL.	MODERATE	
SHRUBS	CODE	QTY	BOTANICAL NAME / COMMON NAME	CONT.	SPACING	WUCOLS	SIZE	SP
	AT	106	AGAVE PARRYI 'TRUNCATA' / PARRY'S AGAVE	5 GAL.	24" O.C.	LOW		24
	AH	6	ARCTOSTAPHYLOS DENSIFLORA 'HOWARD MCINN' / HOWARD MCINN MANZANITA	15 GAL.	AS SHOWN	LOW		72
	AM2	90	ARCTOSTAPHYLOS X 'EMERALD CARPET' / EMERALD CARPET MANZANITA	1 GAL.	36" O.C.	LOW		36
	BB	149	BOUTELOUA GRACILIS 'BLONDE AMBITION' / BLUE GRAMA	5 GAL.	36" O.C.	LOW		36
	CK	74	CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER' / FEATHER REED GRASS	5 GAL.	36" O.C.	LOW		36
	CN	299	CAREX NUDATA / CALIFORNIA BLACK-FLOWERING SEDGE	5 GAL.	AS SHOWN	LOW		24
	CP	307	CAREX PANSA / SANDDUNE SEDGE	1 GAL.	24" O.C.	LOW		24
	EG	115	ERIOGONUM GRANDE RUBESCENS / RED BUCKWHEAT	5 GAL.	AS SHOWN	LOW		36
	FC	220	FESTUCA CALIFORNICA / CALIFORNIA FESCUE	5 GAL.	36" O.C.	LOW		30
	FI	335	FESTUCA IDAHOENSIS / IDAHO FESCUE	1 GAL.	30" O.C.	LOW		24
	JP	75	JUNCUS PATENS / CALIFORNIA GRAY RUSH	5 GAL.	36" O.C.	LOW		36
	LC	322	LEYMUS CONDENSATUS 'CANYON PRINCE' / NATIVE BLUE RYE	1 GAL.	24" O.C.	LOW		18
	MR	266	MUHLENBERGIA RIGENS / DEER GRASS	5 GAL.	48" O.C.	LOW		48
	MC	60	MYRICA CALIFORNICA / PACIFIC WAX MYRTLE	15 GAL.	72" O.C.	LOW		96
	RE	99	RHAMNUS CALIFORNICA 'EVE CASE' / CALIFORNIA COFFEEBERRY	5 GAL.	AS SHOWN	LOW		72
	RS	20	RIBES VIBURNIFOLIUM 'SPOONER'S MESA' / SAN DIEGO EVERGREEN CURRANT	5 GAL.	36" O.C.	LOW		36
	SS	66	SALVIA SONOMENSIS / CREEPING SAGE	5 GAL.	48" O.C.	LOW		48
GROUND COVERS	CODE	QTY	BOTANICAL NAME / COMMON NAME	CONT.	SPACING	WUCOLS	SP	
	HS	13,599 SF	HYDROSEED / NATIVE SEED MIX REFERENCE SPECIFICATIONS AND SPECIAL PROVISIONS FOR SEED MIX, APPLICATION RATES, AND ADDITIONAL INFORMATION.	N/A	N/A	LOW		

NO	REVISION / SUBMISSION	DATE	DESIGNED BY	DATE
			MORGAN, M.	08/08/18
			HENRY, W.	08/08/18
			MADSEN, M.	08/08/18
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1	COUNTY OF NAPA - SUBMITTAL 2	1/9/18		



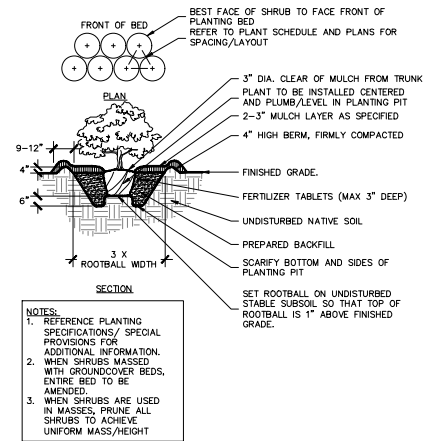
SCALE
HORIZONTAL
1" = 20'
VERTICAL
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Kimley Horn
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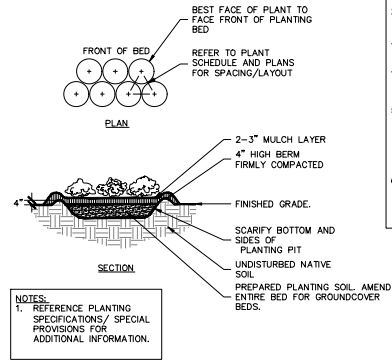
LANDSCAPE PLANTING NOTES
SHEET 5 OF 7

DRAWING NO.	L-205
SHEET NO.	



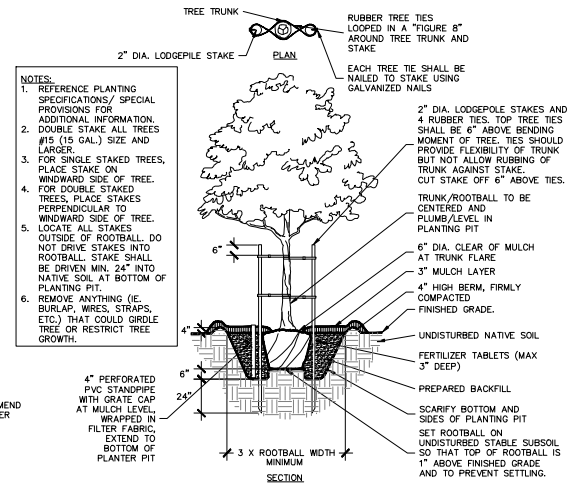
A TYPICAL SHRUB PLANTING

NTS



B TYPICAL GROUNDCOVER PLANTING

NTS



C TYPICAL TREE PLANTING

NTS

NO	REVISION / SUBMISSION	DATE	DESIGNED BY	DATE
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			HENRY, W.	08/08/18
			MADSEN, M.	08/08/18
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1	COUNTY OF NAPA - SUBMITTAL 2	1/9/18		



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LANDSCAPE PLANTING DETAILS
SHEET 6 OF 7

DRAWING NO.
L-206
SHEET NO.

NVTA FLEET MAINTENANCE AND OPERATIONS FACILITY

PLANT IMAGERY BOARD



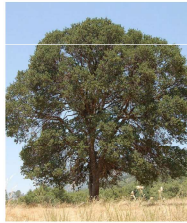
MERLOT REDBUD



MAIDENHAIR TREE



LONDON PLANE TREE



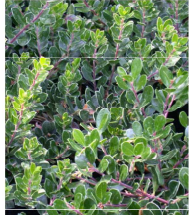
BLUE OAK



PARRY'S AGAVE



HOWARD MCMINN MANZANITA



EMERALD CARPET MANZANITA



BLUE GRAMA



FEATHER REED GRASS



CA. BLACK FLOWERING SEDGE



SANDDUNE SEDGE



RED BUCKWHEAT



CALIFORNIA FESCUE



IDAHO FESCUE



CALIFORNIA GRAY RUSH



NATIVE BLUE RYE



DEER GRASS



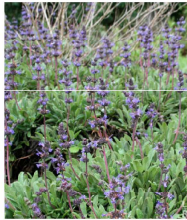
PACIFIC WAX MYRTLE



CALIFORNIA COFFEEBERRY



SAN DIEGO EVERGREEN CURRANT



CREEPING SAGE

NO	REVISION / SUBMISSION	DATE	DESIGNED BY	DATE
			MORGAN, M.	08/08/18
			DRAWN BY HENRY, W.	08/08/18
			CHECKED BY MADSEN, M.	08/08/18
			IN CHARGE MEYERHOFER, P.	08/08/18
1	COUNTY OF NAPA - SUBMITTAL 2	1/9/18		



SCALE
HORIZONTAL
1" = 20'
VERTICAL
1" = 20'

Kimley»Horn

100 W. SAN FERNANDO ST., #250
SAN JOSE, CA 95113
(650) 800-4130



NVTA
NAPA VALLEY TRANSPORTATION AUTHORITY
FLEET MAINTENANCE AND OPERATIONS FACILITY
96,101 SHEEHY COURT, NAPA, CA

PLANT IMAGERY BOARD
SHEET 7 OF 7

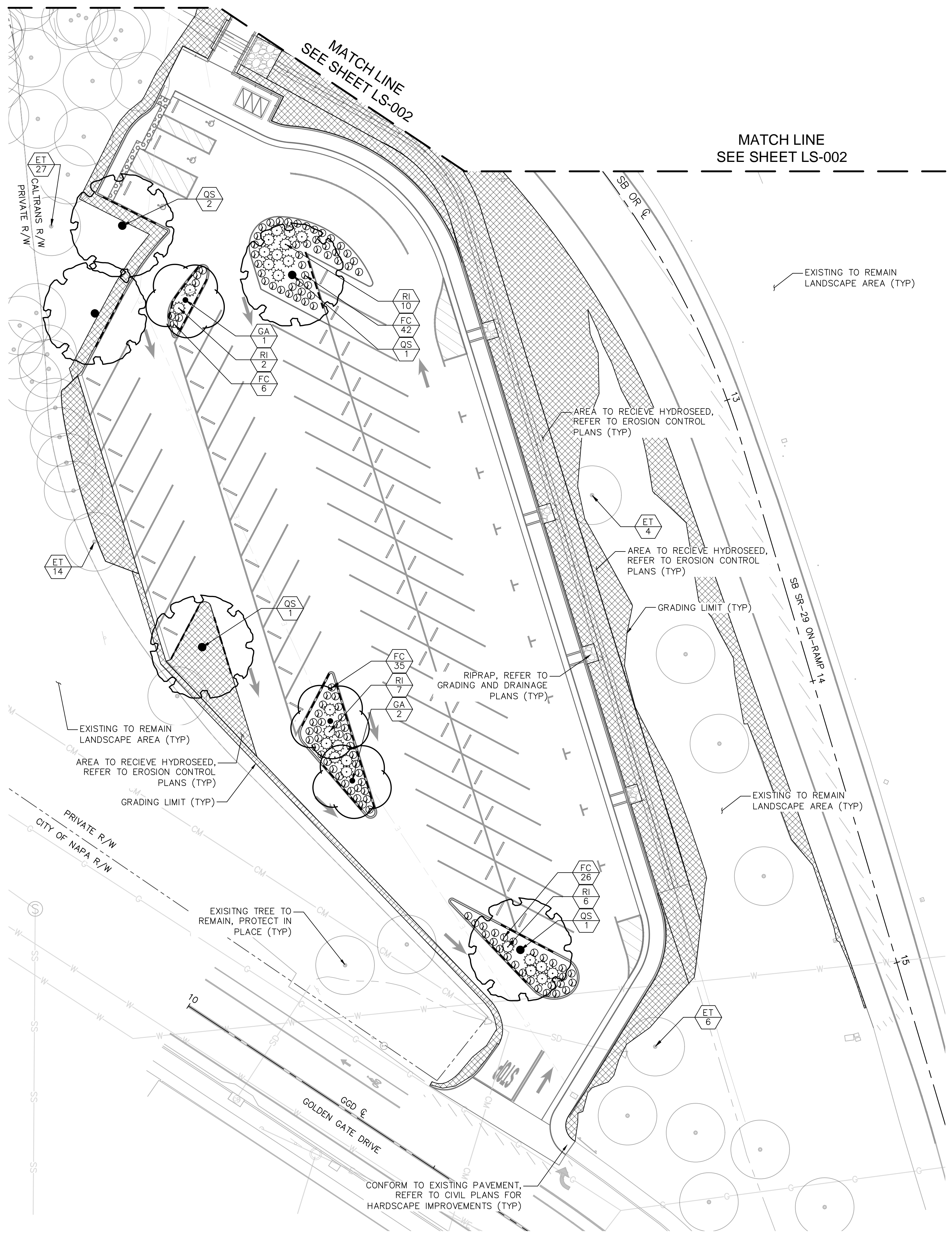
DRAWING NO.

L-207

SHEET NO.

NVTA FLEET MAINTENANCE AND OPERATIONS FACILITY

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT



PLANT LEGEND (SEE SHEET LS-004 FOR FULL PLANT SCHEDULE)

TREES	CODE	BOTANICAL / COMMON NAME
	ET	EXISTING TO REMAIN / PROTECT IN PLACE
	GA	GINKGO BILOBA 'AUTUMN GOLD' TM / AUTUMN GOLD MAIDENHAIR TREE
	QS	QUERCUS SUBER / CORK OAK

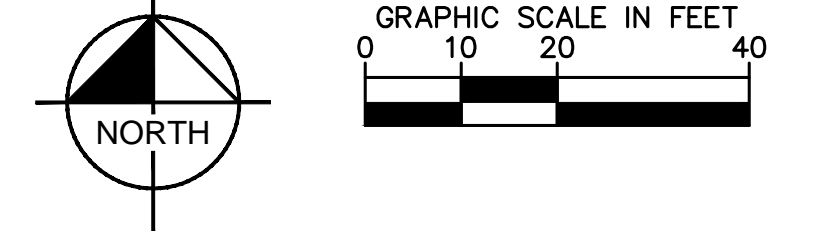
SHRUBS	CODE	BOTANICAL / COMMON NAME
	FC	FESTUCA CALIFORNICA / CALIFORNIA FESCUE
	RI	RHAPHIOLEPIS INDICA / INDIAN HAWTHORN

HYDROSEED	CODE	BOTANICAL / COMMON NAME
	HS	HYDROSEED - REFER TO EROSION CONTROL PLANS

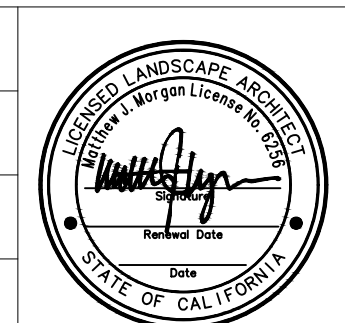
INERT MATERIAL	CODE	BOTANICAL / COMMON NAME
	RB	ROCK BLANKET (PER CALTRANS STANDARDS) REFER TO DETAIL C, LS-005
	RT	ROOT BARRIER REFER TO DETAIL H, LS-005

NOTES:

- REFER TO SECTION 20 OF THE 2018 STANDARD CALTRANS SPECIFICATIONS DOCUMENT FOR LANDSCAPE REQUIREMENTS AND SPECIFICATIONS.
- REFER TO EROSION CONTROL PLANS, FOR HYDROSEED SEED INFORMATION AND NOTES.



NO	REVISION / SUBMISSION	DATE	DESIGNED BY	DATE
			THOMSEN, M.	07/31/20
			THOMSEN, M.	07/31/20
			MORGAN, M.	07/31/20
			MEYERHOFER, P.	07/31/20



SCALE
HORIZONTAL
1" = 20'
VERTICAL
N/A

Kimley»Horn

10 S. ALMADEN BLVD, #1250
SAN JOSE, CA 95113
(669) 800-4130



IMOLA AVE AND SR-29 EXPRESS BUS IMPROVEMENTS
954 GOLDEN GATE DRIVE, NAPA, CA

LANDSCAPE PLAN
SHEET 3 OF 5

PERMIT NO. ####-XXX####
DRAWING NO.

LS-003

SHEET NO.
41 of 55

NVRTA IMOLA AVENUE AND SR-29 EXPRESS BUS IMPROVEMENTS

PLANT LEGEND

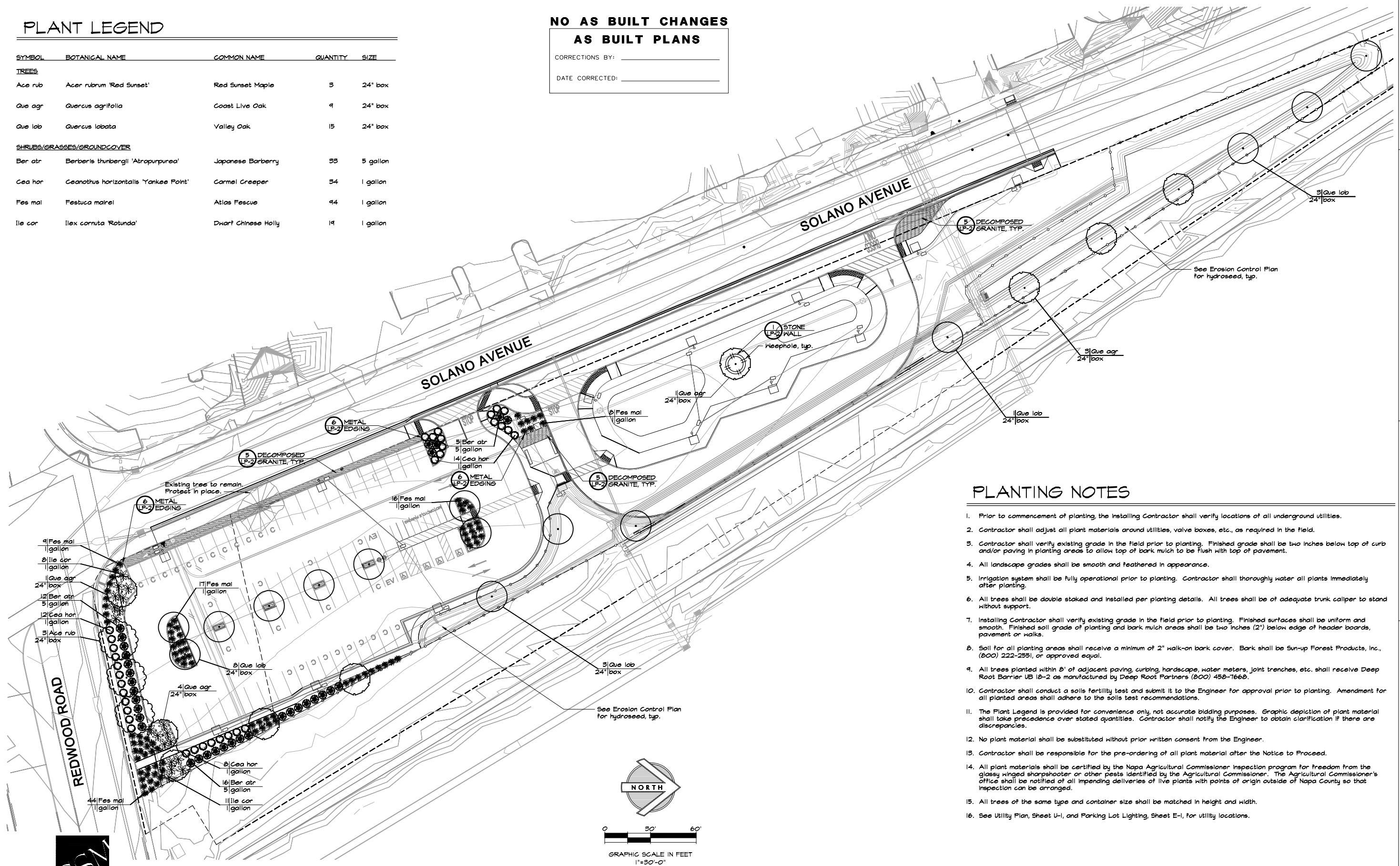
SYMBOL	BOTANICAL NAME	COMMON NAME	QUANTITY	SIZE
TREES				
Ace rub	Acer rubrum 'Red Sunset'	Red Sunset Maple	3	24" box
Que agr	Quercus agrifolia	Coast Live Oak	4	24" box
Que lob	Quercus lobata	Valley Oak	15	24" box
SHRUBS/GRASSES/GROUNDCOVER				
Ber atr	Berberis thunbergii 'Atropurpurea'	Japanese Barberry	33	5 gallon
Cea hor	Ceanothus horizontalis 'Yankee Point'	Carmel Creeper	34	1 gallon
Fes mal	Festuca mairei	Atlas Fescue	44	1 gallon
Ilex cor	Ilex cornuta 'Rotunda'	Dwarf Chinese Holly	14	1 gallon

NO AS BUILT CHANGES

AS BUILT PLANS

CORRECTIONS BY: _____

DATE CORRECTED: _____



PLANTING NOTES

- Prior to commencement of planting, the installing Contractor shall verify locations of all underground utilities.
- Contractor shall adjust all plant materials around utilities, valve boxes, etc., as required in the field.
- Contractor shall verify existing grade in the field prior to planting. Finished grade shall be two inches below top of curb and/or paving in planting areas to allow top of bark mulch to be flush with top of pavement.
- All landscape grades shall be smooth and feathered in appearance.
- Irrigation system shall be fully operational prior to planting. Contractor shall thoroughly water all plants immediately after planting.
- All trees shall be double staked and installed per planting details. All trees shall be of adequate trunk caliper to stand without support.
- Installing Contractor shall verify existing grade in the field prior to planting. Finished surfaces shall be uniform and smooth. Finished soil grade of planting and bark mulch areas shall be two inches (2") below edge of header boards, pavement or walks.
- Soil for all planting areas shall receive a minimum of 2" walk-on bark cover. Bark shall be Sun-up Forest Products, Inc., (800) 222-2551, or approved equal.
- All trees planted within 8' of adjacent paving, curbing, hardscape, water meters, joint trenches, etc. shall receive Deep Root Barrier UB 18-2 as manufactured by Deep Root Partners (800) 458-7668.
- Contractor shall conduct a soils fertility test and submit it to the Engineer for approval prior to planting. Amendment for all planted areas shall adhere to the soils test recommendations.
- The Plant Legend is provided for convenience only, not accurate bidding purposes. Graphic depiction of plant material shall take precedence over stated quantities. Contractor shall notify the Engineer to obtain clarification if there are discrepancies.
- No plant material shall be substituted without prior written consent from the Engineer.
- Contractor shall be responsible for the pre-ordering of all plant material after the Notice to Proceed.
- All plant materials shall be certified by the Napa Agricultural Commissioner inspection program for freedom from the glassy winged sharpshooter or other pests identified by the Agricultural Commissioner. The Agricultural Commissioner's office shall be notified of all impending deliveries of live plants with points of origin outside of Napa County so that inspection can be arranged.
- All trees of the same type and container size shall be matched in height and width.
- See Utility Plan, Sheet U-1, and Parking Lot Lighting, Sheet E-1, for utility locations.

REVISIONS			
NO.	DESCRIPTION	DATE	BY

DRAWN BY: WSM DATE 11/5/09
DESIGNED BY: BTI DATE 11/5/09
CHECKED BY: GSM DATE 11/5/09

CITY OF NAPA
PUBLIC WORKS DEPARTMENT

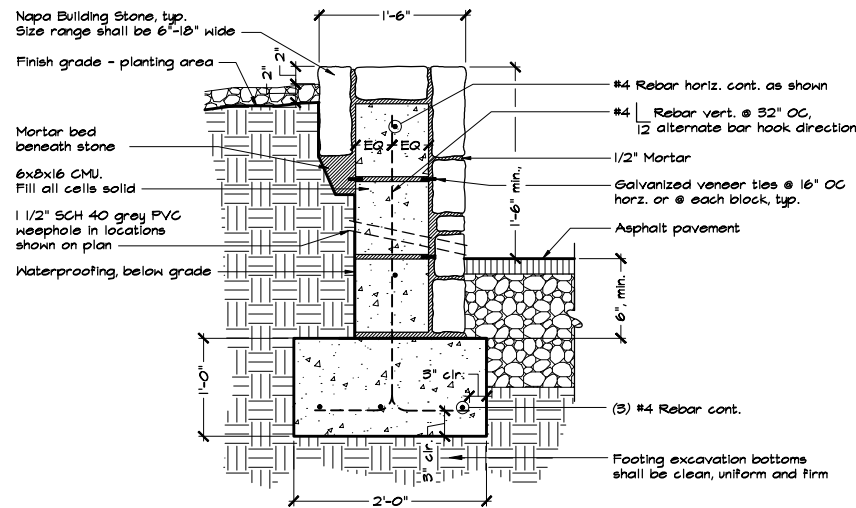
PLANS PREPARED UNDER THE DIRECTION OF
GRECHEL STRANZL MCCANN, R.L.A. CA #2780

11/5/09
DATE

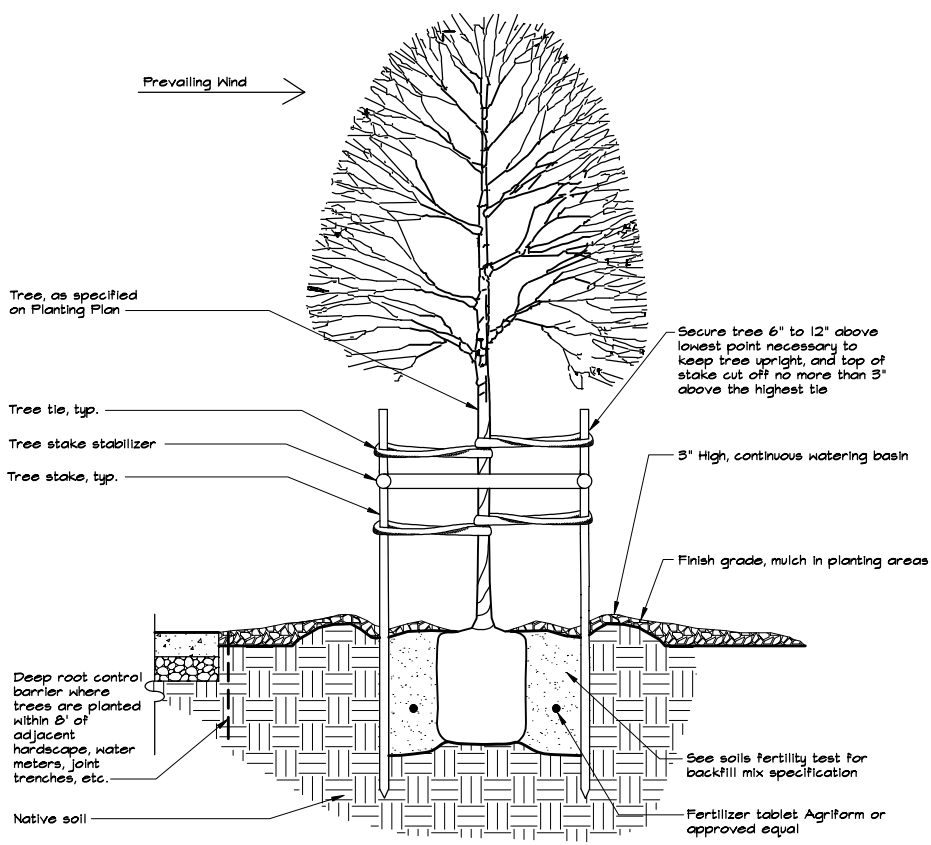
DATE: NOVEMBER 5, 2009
CAD FILE: nwp4
DRAWING NO. LP-1
SHEET NO. 20 OF 25

**NO AS BUILT CHANGES
AS BUILT PLANS**

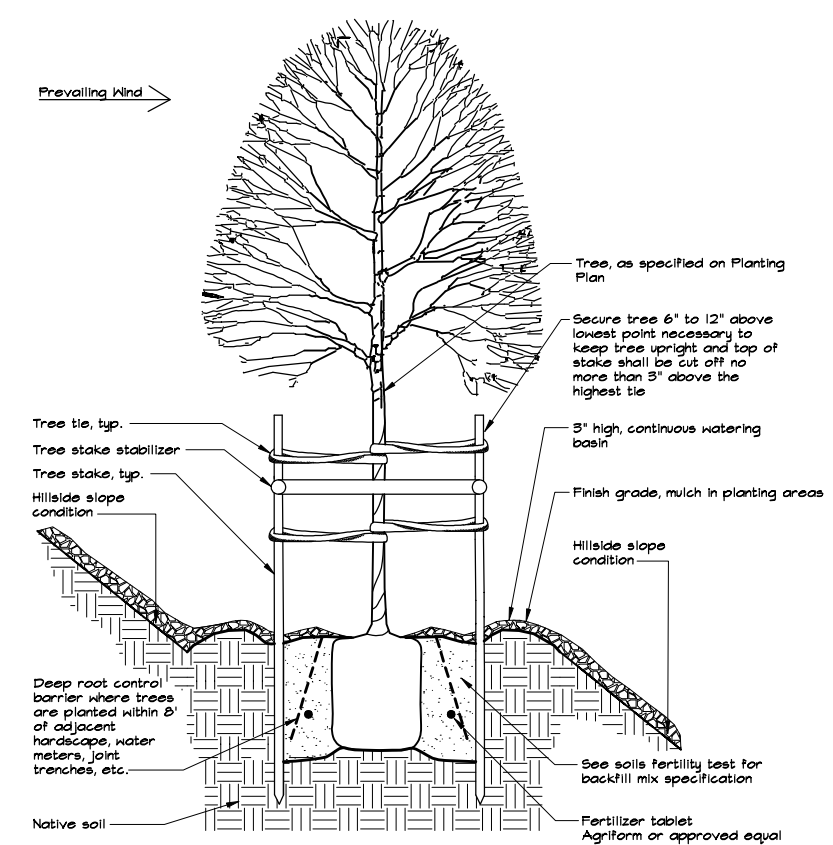
CORRECTIONS BY: _____
DATE CORRECTED: _____



- NOTES:**
1. Stone shall be Napa Building Stone available from Syar Industries Incorporated, 2501 Napa-Vallejo Hwy., Napa, CA 94554 (707) 252-8711, or approved equal. Size shall be a mix and random range of 6" - 18" width and height. Contractor shall submit samples for approval.
 2. Deep rake mortar joints between stones, typ.
 3. Fit stones carefully to avoid unnecessarily large mortar joints.
 4. Joints shall be 1/2" width, max. Mortar shall be natural grey.
 5. Contractor shall provide a 4'-0" full length mockup of stone wall for review and approval by the Engineer.
 6. See Civil Drawings for soils compaction, grading and drainage design.



- NOTES:**
1. Root ball shall rest on undisturbed soil.
 2. Plant tablets shall be equally spaced around root ball. The number of tablets shall be 4 for 15 gallon and 6 for 24" box, or as specified in the soils fertility test recommendations.
 3. Contractor shall water planting pit thoroughly following planting.
 4. See Planting Notes on Landscape Plan, Sheet LP-1, for mulch specification.
 5. Contractor shall install two (2) inch diameter by twelve (12) foot minimum lodge pole pine stakes or approved equal. Trees shall be staked parallel with the direction of the prevailing wind. Stakes shall be pressure treated with a wood preservative material.
 6. Contractor shall space tree stakes with Mission Manufacturing tree stake stabilizer or approved equal as available through Horizon (707) 255-7575.
 7. Contractor shall tie trees with 24 inch minimum GroStrait tree ties or approved equal as available through Horizon (707) 255-7575.
 8. Contractor shall use Deep Root Barrier #UB 18-2 as manufactured by Deep Root Partners, (800) 458-7668.

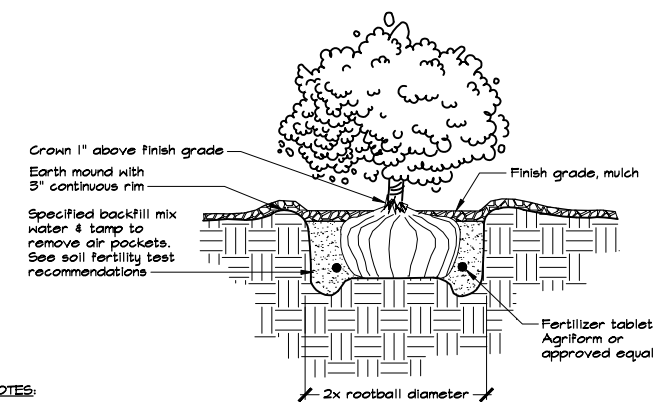


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 8. Contractor shall use Deep Root Barrier #UB 18-2 as manufactured by Deep Root Partners, (800) 458-7668.

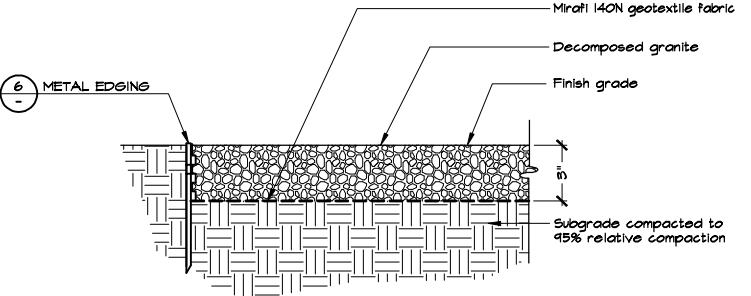
1 STONE WALL
NOT TO SCALE

2 TREE PLANTING AND STAKING
NOT TO SCALE

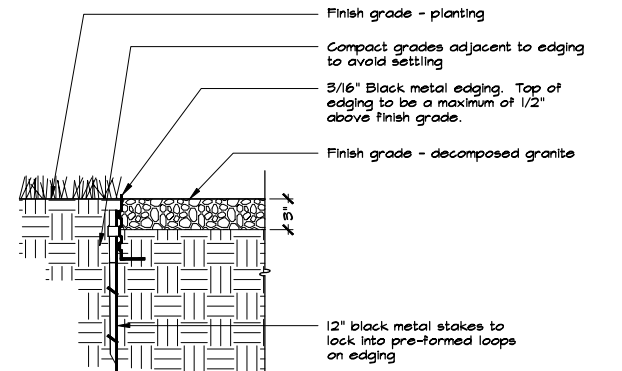
3 HILLSIDE TREE PLANTING AND STAKING
NOT TO SCALE



- NOTES:**
1. Root ball shall rest on undisturbed soil.
 2. Plant tablets shall be equally spaced around root ball. The number of tablets shall be 1 for 4" pot or liner, 2 for 1 gallon, 3 for 5 gallon, and 4 for 15 gallon, or as specified in the soils fertility test recommendations.
 3. Contractor shall water planting pit thoroughly following planting.
 4. See Planting Notes on Landscape Plan, Sheet LP-1, for mulch specification.



- NOTE:**
1. Decomposed Granite shall be no more than 1/8" in size, and shall be Auburn Gold in color. Decomposed Granite shall be as available at Clark's Rock, 850 Green Island Road, American Canyon, CA 94503-9655, (707) 252-2044, or approved equal.



- NOTES:**
1. Metal Edging (metal maintenance strip) shall be Fernaloc PermaStrip as manufactured by Fernaloc Corporation, Holland, MI., 1-800-356-4660, or approved equal.
 2. Color shall be black.

4 SHRUB/GROUNDCOVER PLANTING
NOT TO SCALE

5 DECOMPOSED GRANITE
NOT TO SCALE

6 METAL EDGING
NOT TO SCALE

GSM landscape architects
1785 Third Street Napa, California 94559
(707) 255-4630 California License Number 2790

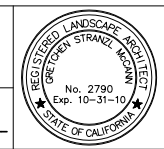
REVISIONS			
NO.	DESCRIPTION	DATE	BY

DRAWN BY: WSM DATE 11/5/09
DESIGNED BY: BTI DATE 11/5/09
CHECKED BY: GSM DATE 11/5/09



**CITY OF NAPA
PUBLIC WORKS DEPARTMENT**

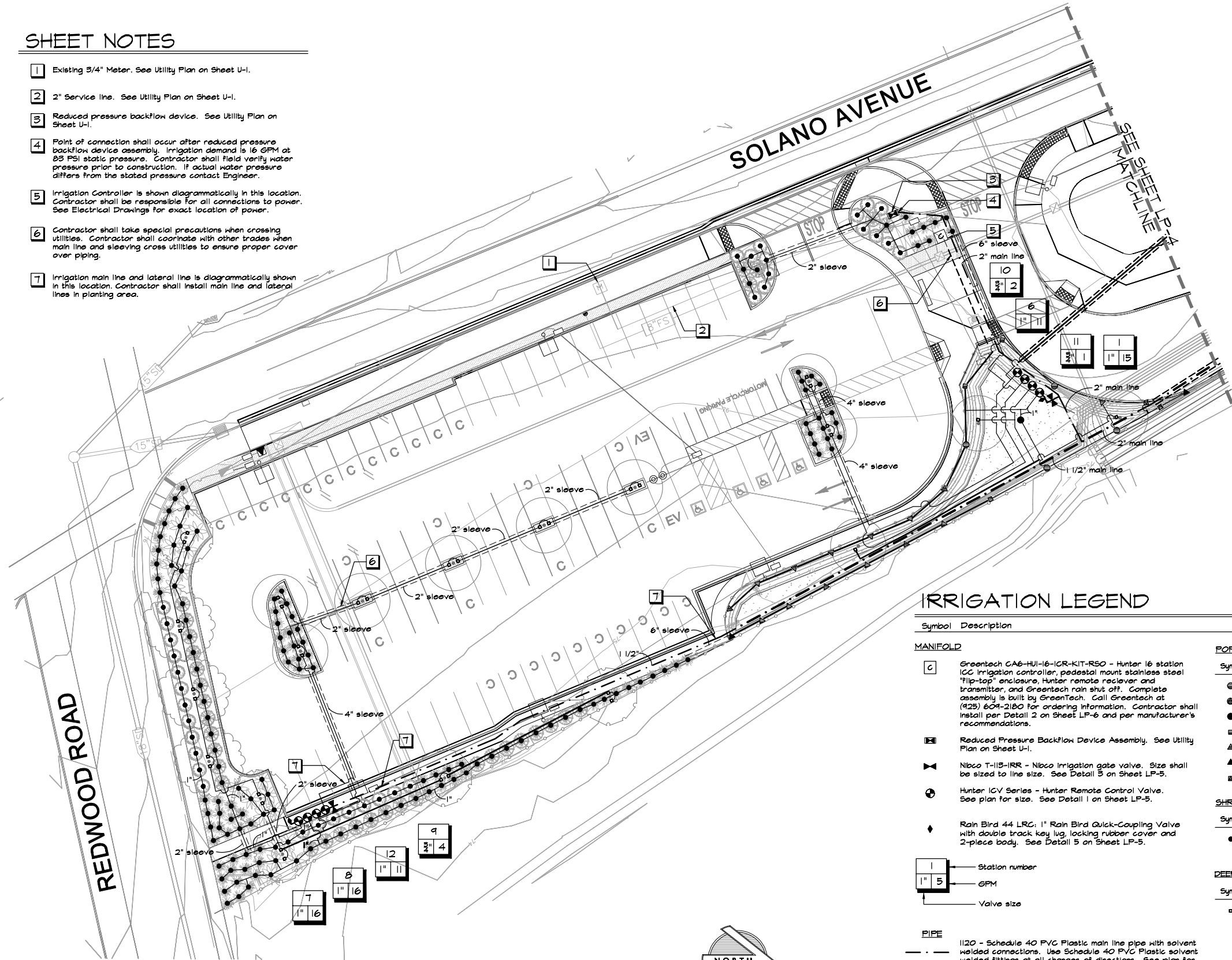
PLANS PREPARED UNDER THE DIRECTION OF
GRECHEN STRANZL MCCANN, R.L.A. CA #2780



DATE: NOVEMBER 5, 2009
CAD FILE: 0904
DRAWING NO. LP-2
SHEET NO. 21 OF 25

SHEET NOTES

- 1 Existing 3/4" Meter. See Utility Plan on Sheet U-1.
- 2 2" Service line. See Utility Plan on Sheet U-1.
- 3 Reduced pressure backflow device. See Utility Plan on Sheet U-1.
- 4 Point of connection shall occur after reduced pressure backflow device assembly. Irrigation demand is 16 GPM at 85 PSI static pressure. Contractor shall field verify water pressure prior to construction. If actual water pressure differs from the stated pressure contact Engineer.
- 5 Irrigation Controller is shown diagrammatically in this location. Contractor shall be responsible for all connections to power. See Electrical Drawings for exact location of power.
- 6 Contractor shall take special precautions when crossing utilities. Contractor shall coordinate with other trades when main line and sleeving cross utilities to ensure proper cover over piping.
- 7 Irrigation main line and lateral line is diagrammatically shown in this location. Contractor shall install main line and lateral lines in planting area.



**NO AS BUILT CHANGES
AS BUILT PLANS**

CORRECTIONS BY: _____
DATE CORRECTED: _____

IRRIGATION LEGEND

Symbol	Description				
MANIFOLD					
[C]	Greentech CA6-HU-16-ICR-KIT-R50 - Hunter 16 station ICG irrigation controller, pedestal mount stainless steel "flip-top" enclosure, Hunter remote receiver and transmitter, and Greentech rain shut off. Complete assembly is built by Greentech. Call Greentech at (925) 604-2180 for ordering information. Contractor shall install per Detail 2 on Sheet LP-6 and per manufacturer's recommendations.				
[R]	Reduced Pressure Backflow Device Assembly. See Utility Plan on Sheet U-1.				
[V]	Nibco T-115-IRR - Nibco Irrigation gate valve. Size shall be sized to line size. See Detail 3 on Sheet LP-5.				
[H]	Hunter IGV Series - Hunter Remote Control Valve. See plan for size. See Detail 1 on Sheet LP-5.				
[B]	Rain Bird 44 LRC; 1" Rain Bird Quick-Coupling Valve with double track key lug, locking rubber cover and 2-piece body. See Detail 5 on Sheet LP-5.				
[S]	Station number				
[G]	GPM				
[V]	Valve size				
PIPE					
---	1120 - Schedule 40 PVC Plastic main line pipe with solvent welded connections. Use Schedule 40 PVC Plastic solvent welded fittings at all changes of directions. See plan for main line size.				
---	1120 - Schedule 40 PVC Plastic lateral line pipe with Schedule 40 PVC Plastic solvent welded fitting. See plan for lateral pipe size. Unless otherwise noted all lateral line pipe shall be 3/4".				
---	1120 - Schedule 40 PVC Plastic sleeving with schedule 40 PVC Plastic solvent welded fitting - two times pipe size, extending 12" beyond pavement, both sides.				
POP-UP STREAM ROTOR SPRINKLER					
Symbol	Model	Description	PSI	GPM	RADIUS
●	MPR40-12-CV-MP3000-90	Hunter 12" Pop-up Stream Rotor	40	1.82	27'-30'
●	MPR40-12-CV-MP3000-210	Hunter 12" Pop-up Stream Rotor	40	2.73	27'-30'
●	MPR40-12-CV-MP3000-360	Hunter 12" Pop-up Stream Rotor	40	3.64	27'-30'
■	MPR40-12-CV-MP2000-90	Hunter 12" Pop-up Stream Rotor	40	.86	17'-19'
▲	MPR40-12-CV-MP1000-90	Hunter 12" Pop-up Stream Rotor	40	.37	12'-14'
▲	MPR40-12-CV-MPCORNER	Hunter 12" Pop-up Stream Rotor	40	.14	12'-14'
■	MPR40-12-CV-MP35530-SIDE	Hunter 12" Pop-up Stream Rotor	40	.14	5'x30'
SHRUB BUBBLER					
Symbol	Model	Description	PSI	GPM	RADIUS
●	1401	Rain Bird Bubblers	30	.25	Flood
DEEP ROOT WATERING SYSTEM					
Symbol	Model	Description	PSI	GPM	RADIUS
■	RZMS-18-25-CV-SLEEVE	Hunter Root Watering System 18" long RZMS with installed .25 GPM bubbler, check valve, internal plumbing, and 1/2" swing joint for connection to 1/2" pipe with field installed sleeve made from filter fabric.	30	.25	Flood

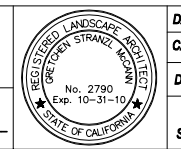
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NO.	DESCRIPTION	DATE	BY

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DESIGNED BY: BTI DATE 11/5/09
CHECKED BY: GSM DATE 11/5/09

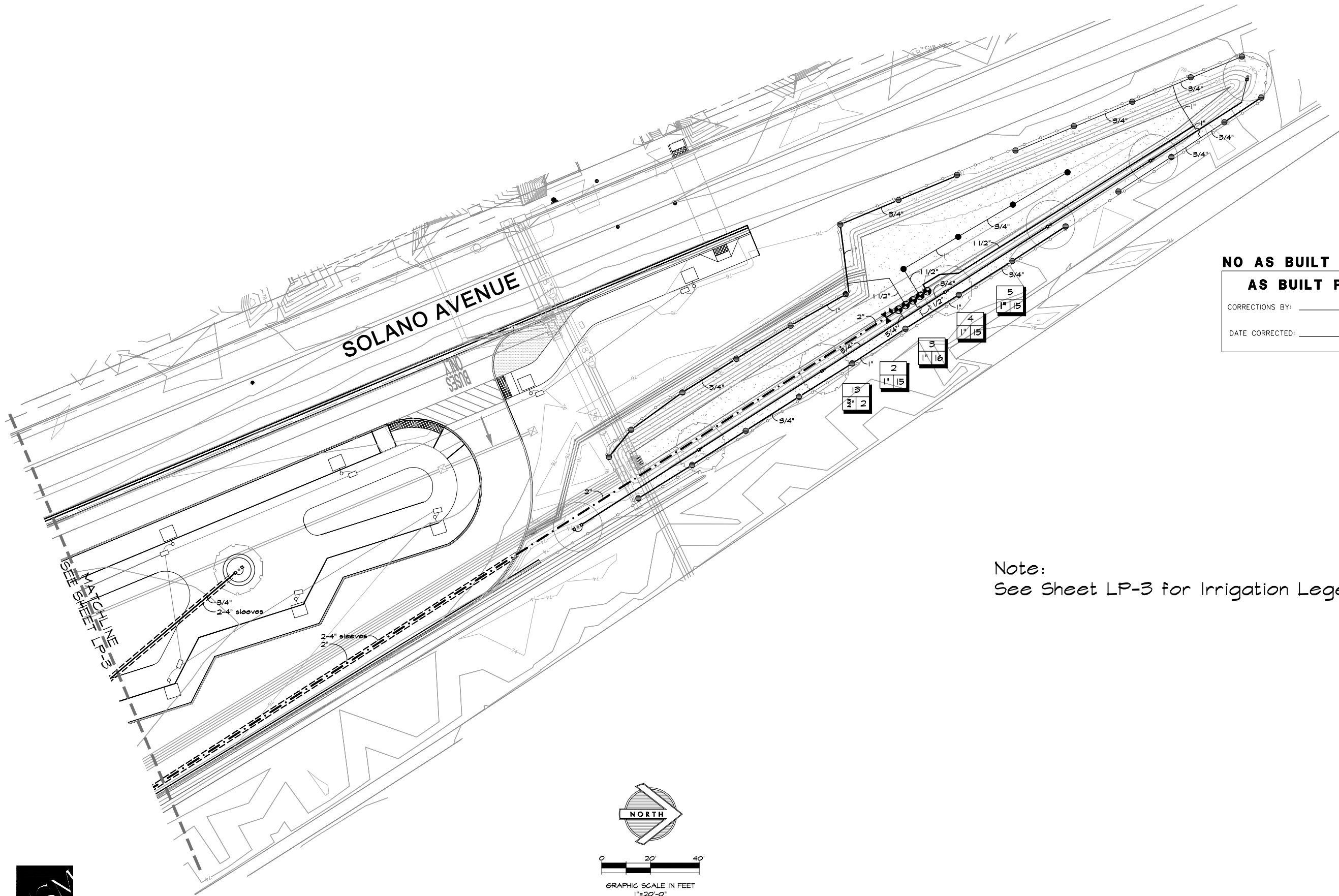
**CITY OF NAPA
PUBLIC WORKS DEPARTMENT**

PLANS PREPARED UNDER THE DIRECTION OF
GRECHEN STRANZL MCCANN, R.L.A. CA #2780

11/5/09
DATE



DATE: NOVEMBER 5, 2009
CAD FILE: *mm*
DRAWING NO. LP-3
SHEET NO. 22 OF 25

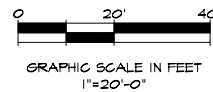


**NO AS BUILT CHANGES
AS BUILT PLANS**

CORRECTIONS BY: _____

DATE CORRECTED: _____

Note:
See Sheet LP-3 for Irrigation Legend



GSM landscape architects
1785 Third Street Napa, California 94559
(707) 255-4630 California License Number 2790

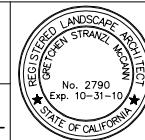
REVISIONS			
NO.	DESCRIPTION	DATE	BY

DRAWN BY: WSM DATE 11/5/09
DESIGNED BY: BTI DATE 11/5/09
CHECKED BY: GSM DATE 11/5/09



**CITY OF NAPA
PUBLIC WORKS DEPARTMENT**

PLANS PREPARED UNDER THE DIRECTION OF
GRECHEN STRANZL MCCANN, R.L.A. CA #2780



DATE: NOVEMBER 5, 2009

CAD FILE: *mm*

DRAWING NO. LP-4

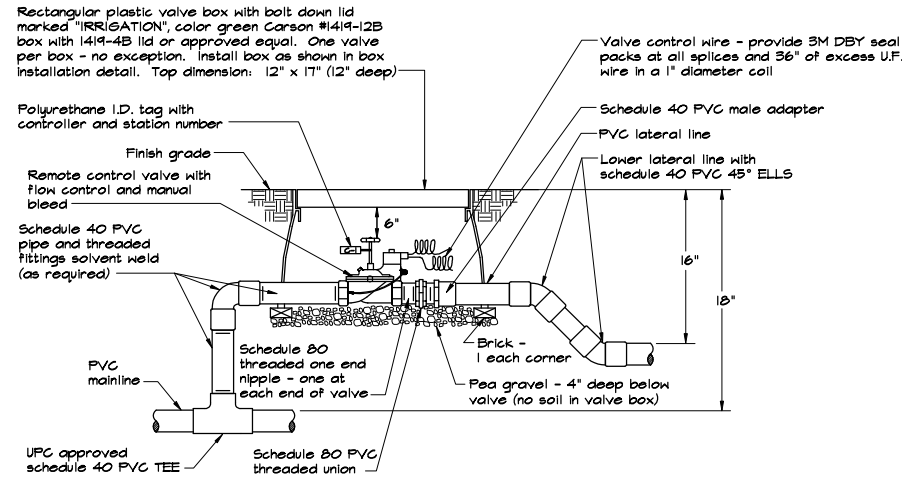
SHEET NO. 23 OF 25

NAPA COUNTY
TRANSPORTATION AND
PLANNING AGENCY
NC TPA

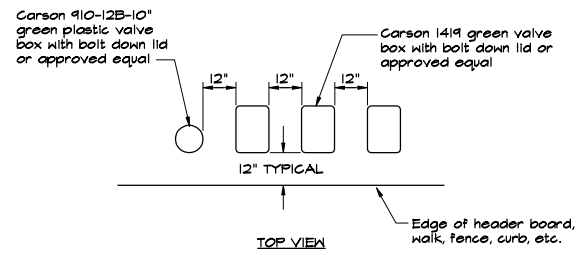
**CITY OF NAPA
PUBLIC WORKS
DEPARTMENT**

**DE DOKKEN
ENGINEERING**
2365 Iron Point Road, Suite 200
Folsom, CA 95630
(916) 958-0642

**TRANCAS / HIGHWAY 29
PARK AND RIDE FACILITY
IRRIGATION PLAN**

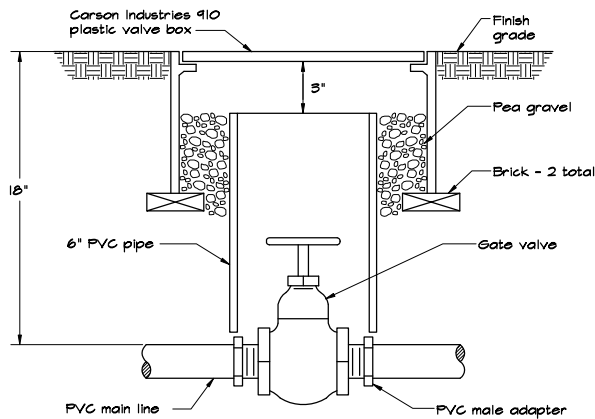


1 REMOTE CONTROL VALVE
NOT TO SCALE

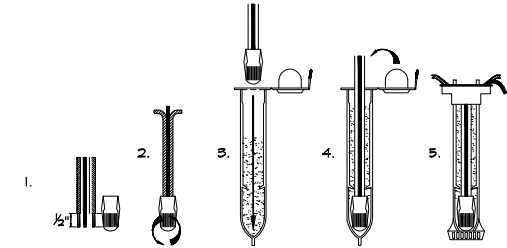


- Center valve box over remote control valve to facilitate servicing valve.
- Set boxes 1\"/>

2 VALVE BOX INSTALLATION
NOT TO SCALE



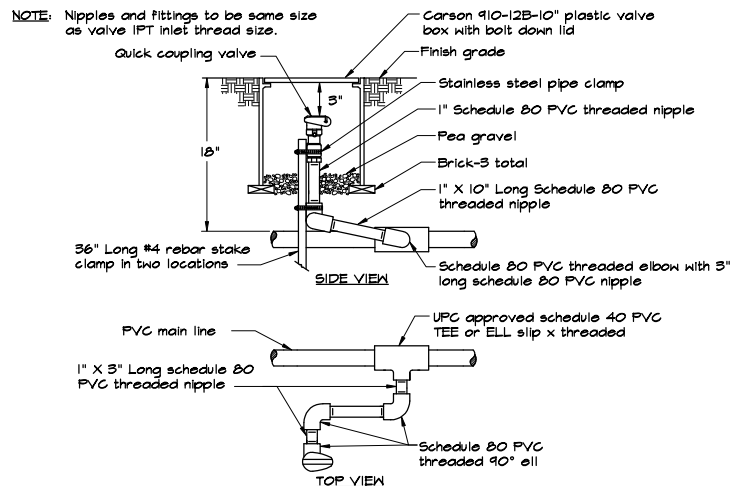
3 GATE VALVE
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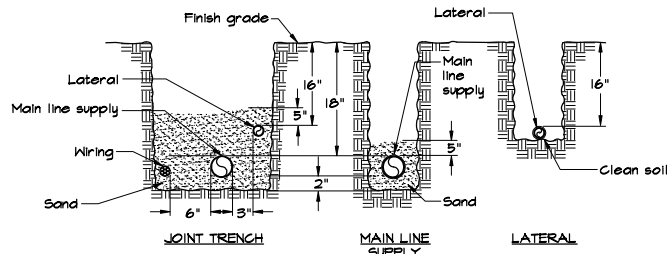
INSTRUCTIONS:

- Strip wires approximately 1/2\"/>

4 WEATHERPROOF SPLICE ASSEMBLY
NOT TO SCALE



5 QUICK COUPLING VALVE
NOT TO SCALE



NOTES:

- All plastic piping shall be installed in the trench in a serpentine manner per the manufacturer's specifications.
- All supply lines to be installed per manufacturer specifications.
- Tape and bundle tubing or wiring at 10 foot intervals.
- All 120 volt wiring in conduit to be installed in accordance with all applicable codes.
- Back fill with 3\"/>

6 TRENCHING IN PLANTING AREAS
NOT TO SCALE

IRRIGATION NOTES

- These Irrigation drawings are diagrammatic and indicative of the work to be installed. All piping, valves, etc. shown within paved areas is for clarity only and are to be installed within planting areas where possible. Due to the scale of the drawings it is not possible to indicate all offsets, fittings, sleeves, etc., which may be required. The Contractor is required to investigate the structural and finished condition affecting all of the contract work including obstructions, grade differences or area dimensional differences which may not have been considered in the engineering. In the event of field differences, the Contractor is required to plan the installation work accordingly by notification and approval of the Engineer and according to the contract specifications. The Contractor is also required to notify and coordinate irrigation Contractor work with all applicable Contractors for the location and installation of pipe, conduit, or sleeves through or under walls, roadways, paving, structure, etc., before construction. In the event these notifications are not performed, the Contractor shall assume full responsibility for all required revisions.
- The Contractor shall exercise care in locating piping so as to not conflict with other utilities. A minimum of 1-inch vertical clearance shall be maintained between irrigation lines that cross. No irrigation line shall be installed directly over another irrigation line except where crossing.
- The intent of this irrigation system is to provide the minimum amount of water required to sustain good plant health.
- It is the responsibility of the Contractor to program the irrigation controller to provide the minimum amount of water needed to sustain good plant health. This includes making adjustments to the program for seasonal weather changes, plant material, water requirements, mounds and slopes, sun, shade, and wind exposures.
- At the end of the required maintenance period of the Contractor, the maintenance personnel shall provide regular maintenance of the irrigation system to ensure the efficient use of water. Maintenance shall include, but not be limited to checking, adjusting, and repairing irrigation equipment and control system.
- Irrigation control wires shall be copper with U.L. approval for direct burial in ground, size #14-1. Common ground wire shall have white insulating jacket. Control wire shall have insulating jacket of color other than white. Splice shall be made with 3M-DBY seal packs.
- Install spare control wire of a different color and tracer wire along the entire main line. Loop 36\"/>

NO AS BUILT CHANGES
AS BUILT PLANS

CORRECTIONS BY: _____
DATE CORRECTED: _____

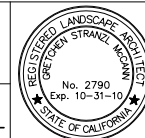
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NO.	DESCRIPTION	DATE	BY

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DESIGNED BY: BTI DATE 11/5/09
CHECKED BY: GSM DATE 11/5/09



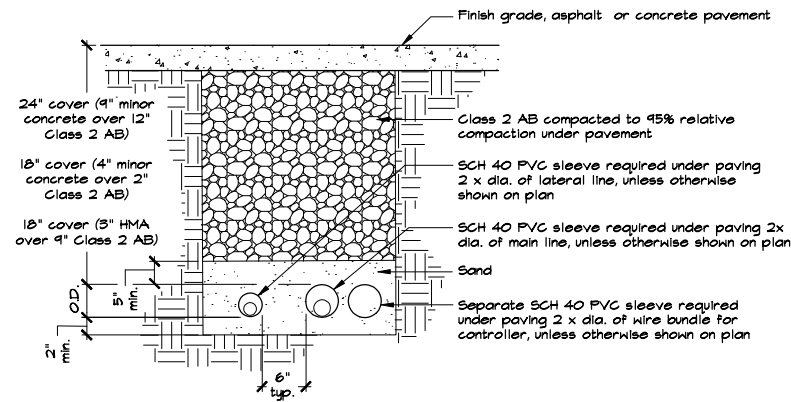
CITY OF NAPA
PUBLIC WORKS DEPARTMENT

PLANS PREPARED UNDER THE DIRECTION OF
GRECHEN STRANZ MCCANN, R.L.A. CA #2780



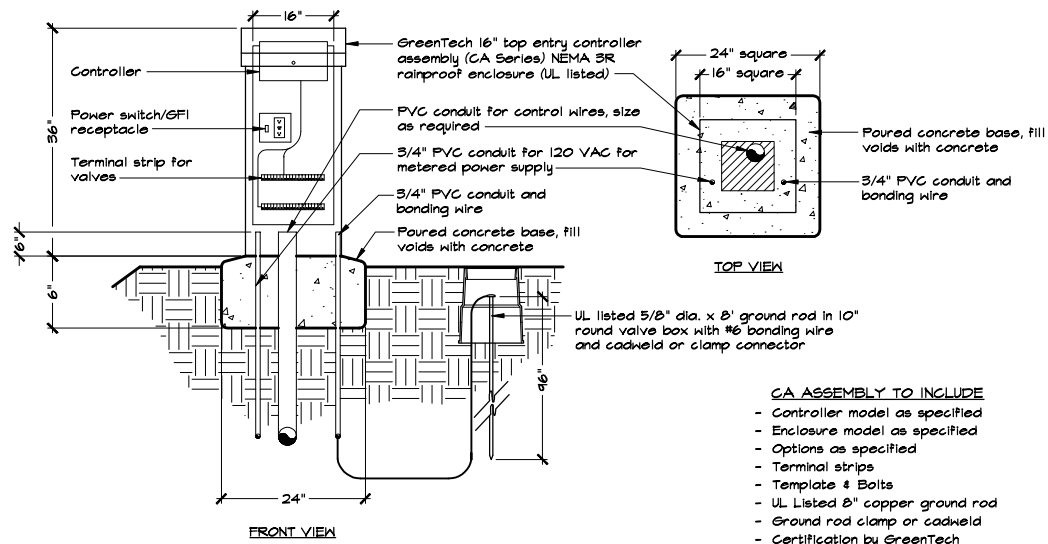
DATE: NOVEMBER 5, 2009
CAD FILE: *mm*
DRAWING NO. LP-5
SHEET NO. 24 OF 25





NOTE:
1. Extend all sleeves 12" beyond edge of pavement at both ends, cap ends and flag locations.

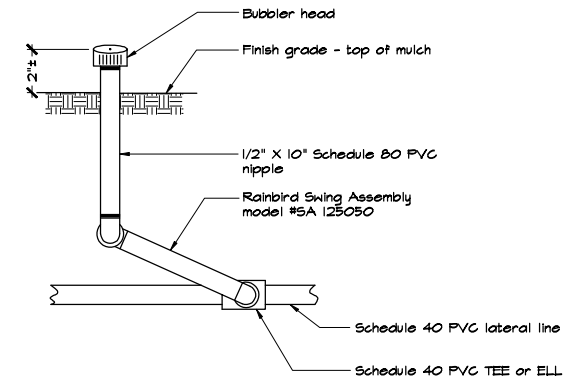
① SLEEVING UNDER PAVEMENT NOT TO SCALE



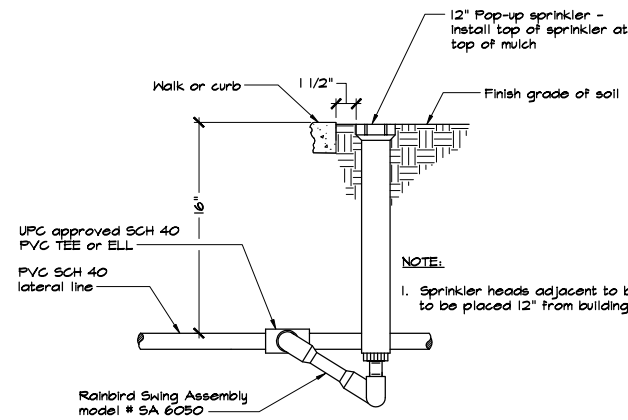
CA ASSEMBLY TO INCLUDE
 - Controller model as specified
 - Enclosure model as specified
 - Options as specified
 - Terminal strips
 - Template & Bolts
 - UL Listed 8" copper ground rod
 - Ground rod clamp or cadweld
 - Certification by GreenTech Representative, GreenTech contact (888) 458-7435

NOTES:
 1. Metered electrical source shall be provided under the electrical contract work. Provide coordination with electrical service contractor for installation and services.
 2. Install high voltage cables and electrical wires in conduit per the electrical code.
 3. Alternate for poured concrete base: VIT products "Quick Pad", choose pad for exact fit to controller pedestal.
 4. Grounding rod shall be located no closer than 8" and no further than 12" from the controller unless otherwise specified. Install a 10" round valve box over the ground rod for location and maintenance purposes.

② 16" TOP ENTRY CONTROLLER ASSEMBLY NOT TO SCALE

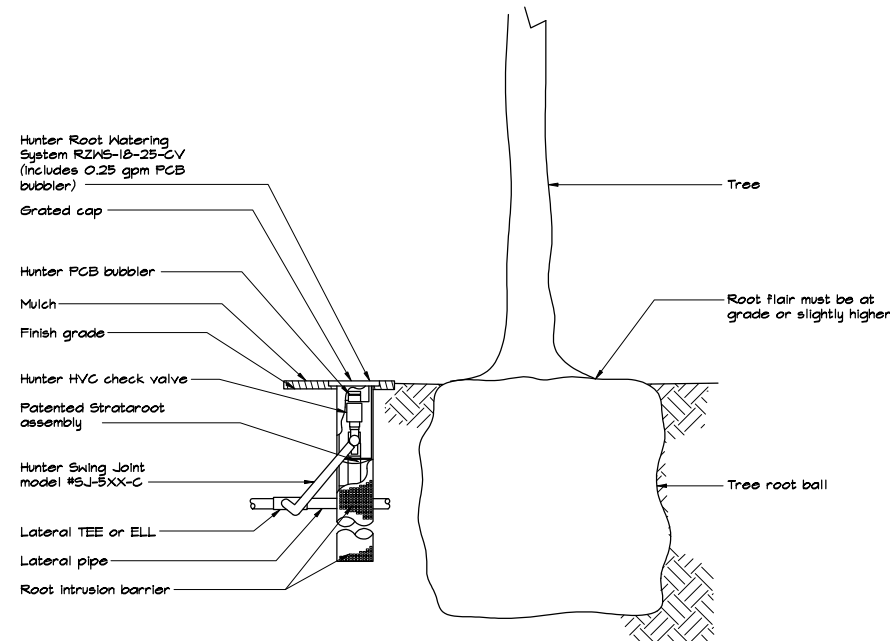


③ SHRUB BUBBLER NOT TO SCALE



NOTE:
1. Sprinkler heads adjacent to buildings are to be placed 12" from building walls.

④ POP-UP SPRINKLER NOT TO SCALE



NOTE:
1. Contractor shall install Hunter Filter Fabric Sleeve model #RZNS-SLEEVE.

⑤ DEEP ROOT WATERING SYSTEM NOT TO SCALE

NO AS BUILT CHANGES
 AS BUILT PLANS

CORRECTIONS BY: _____
 DATE CORRECTED: _____

REVISIONS			
NO.	DESCRIPTION	DATE	BY

DRAWN BY: WSM DATE 11/5/09
 DESIGNED BY: BTI DATE 11/5/09
 CHECKED BY: GSM DATE 11/5/09



CITY OF NAPA
PUBLIC WORKS DEPARTMENT

PLANS PREPARED UNDER THE DIRECTION OF
 GRECHEN STRANZL MCCANN, R.L.A. CA #2780



DATE: NOVEMBER 5, 2009
 CAD FILE: 0611RR
 DRAWING NO. LP-6
 SHEET NO. 25 OF 25