

CITY OF SANTA ROSA IMPROVEMENT PLANS FOR HOWARTH COURTS RENOVATION

LOCATION MAPS



VICINITY MAP



GENERAL NOTES

- I. STANDARDS: ALL WORKMANSHIP, MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE CITY OF SANTA ROSA STANDARD PLANS, THE CONSTRUCTION SPECIFICATIONS FOR PUBLIC IMPROVEMENTS, THE SPECIAL PROVISIONS FOR THIS PROJECT AND THE STATE STANDARD SPECIFICATIONS AND STANDARD PLANS. THE CONTRACTOR IS RESPONSIBLE FOR UNDERSTANDING ALL STANDARDS PERTAINING TO THIS PROJECT.
- 2. COMPOSITE BASE SHEET: THE PROPOSED IMPROVEMENTS SHOWN ON THESE DRAWINGS ARE SUPERIMPOSED ON A BASE SHEET COMPOSED OF BOUNDARY, TOPOGRAPHIC, AND UNDERGROUND UTILITY INFORMATION PROVIDED BY CITY OF SANTA ROSA. THIS BASE SHEET INFORMATION IS SHOWN IN HALF TONE ON THE PLANS. THE LANDSCAPE ARCHITECT SHALL NOT BE HELD LIABLE FOR CHANGES, INACCURACIES, OMISSIONS, OR OTHER ERRORS ON THESE BASE SHEETS. THE COMPOSITE BASE SHEET IS PROVIDED AS AN AID ONLY AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING THESE DOCUMENTS AND INCORPORATING/INTEGRATING ALL CONSTRUCTION AS REQUIRED TO ACCOMMODATE SAME.

THE BASE SHEET SOURCE FOR THESE DRAWINGS IS: 'TOPOGRAPHIC MAP OF TENNIS COURT RESURFACING OF HOWARTH PARK AND GALVIN PARK', PREPARED BY CITY OF SANTA ROSA, (707) 543-3288, DATED 4/16/2024.

- 3. FIELD CONDITIONS: FIELD CONDITIONS MAY VARY FROM THE INFORMATION SHOWN ON THE PLANS. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING FIELD CONDITIONS AND FOR REVIEWING DISCREPANCIES WITH THE CITY'S REPRESENTATIVE. THE CITY AND CITY'S REPRESENTATIVE ASSUME NO RESPONSIBILITY FOR FIELD CONDITIONS AND **REQUIRED MODIFICATIONS.**
- 4. EXCAVATION: THE CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT (USA) AT 1-800-227-2600 NO LESS THAN 2 WORKING DAYS PRIOR TO ANY EXCAVATION FOR MARK OUTS OF EXISTING UNDERGROUND FACILITIES IN ACCORDANCE WITH SECTION 5-1.36E OF THE SPECIAL PROVISIONS. EXCAVATION IS DEFINED AS BEING 18 OR MORE INCHES IN DEPTH BELOW THE EXISTING SURFACE.

NOTIFY THE OWNER OF THAT UTILITY AND THE CITY'S REPRESENTATIVE.

THE CITY'S REPRESENTATIVE ASSUMES NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF DELINEATION OF UNDERGROUND UTILITIES, NOR FOR THE EXISTENCE OF OTHER BURIED OBJECTS OR UTILITIES WHICH ARE NOT SHOWN ON THESE DRAWINGS.

- 6. CITY MONUMENTS: THE CONTRACTOR SHALL PROTECT AND PRESERVE CITY ACCORDANCE WITH CITY STANDARD-280.
- OVERHEAD WIRES AND TREE BRANCHES ARE NOT DAMAGED.
- AS NOTED ON THE PLANS OR AS DIRECTED BY THE CITY'S REPRESENTATIVE.

90% SUBMITTAL

CONTRACT No. C00714

JANUARY 15, 2025

5. UTILITIES: THE LOCATIONS OF UNDERGROUND UTILITIES AND OTHER OBSTACLES SHOWN ON THE PLANS ARE BASED ON THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL POTHOLE AND DETERMINE THE EXACT LOCATION OF ALL POTENTIAL CONFLICTS IN ACCORDANCE WITH U.S.A. LAWS AND THESE SPECIAL PROVISIONS AND THE STANDARD SPECIFICATIONS. IF ANY UNMARKED UTILITIES ARE ENCOUNTERED, OR IF UNABLE TO LOCATE A MARKED UTILITY AFTER POT HOLING, THE CONTRACTOR SHALL IMMEDIATELY

MONUMENTS. THE CONTRACTOR SHALL COORDINATE WITH THE CITY'S REPRESENTATIVE 10 WORKING DAYS IN ADVANCE FOR REFERENCING OF EXISTING MONUMENTS TO BE DISTURBED. THE CONTRACTOR SHALL RECONSTRUCT DISTURBED MONUMENTS IN

OVERHEAD UTILITIES: OVERHEAD UTILITY SERVICE DROPS ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL INVESTIGATE THE SITE AND BE AWARE OF LIMITED CLEARANCES UNDER OVERHEAD UTILITY LINES AND LOW HANGING TREE BRANCHES. THE CONTRACTOR'S TRUCKS AND EXCAVATION EQUIPMENT SHALL BE SIZED SO THAT

8. DISPOSAL: ALL EXCAVATED MATERIAL SHALL BE DISPOSED OF AS GENERATED AND AT NO TIME SHALL THE CONTRACTOR PLACE EXCAVATED MATERIAL AT THE WORK SITE.

9. TREE PROTECTION AND MAINTENANCE REQUIREMENTS: SHALL BE PER TREE PROTECTION NOTES, SHEET L3.2. THE CONTRACTOR SHALL ONLY REMOVE EXISTING TREES OR SHRUBS

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SHEET NO. LANDSCAPE DRAWI 11.0 L2.0 L3.0-L3. L5.0 L6.1 L7.0 H8.0-H8.4 STRUCTURAL DRAWI

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EXIS	(ALL MAY NOT APPLY)
•	FOUND IRON PIPE AS NOTED
	FOUND CENTERLINE MONUMENT, SIZE AS NOTED
	FOUND NAIL & TAG, STAMPED AS NOTED
<u>/*\</u>	BARRICADE - BOLLARD
—	BIKE DETECT
_ V_ V_	CABLE TV - PULLBOX
TV O	CABLE TV - SERVICE RISER
E	ELECTRIC - PULLBOX
-0- }¤	ELECTRIC - JOINT POLE ELECTRIC - JOINT POLE WITH LIGHT
_°C–	ELECTRIC - JOINT POLE WITH RISER
∲ —`X	ELECTRIC - JOINT POLE WITH RISER & LIGHT
← -F-F-F-	ELECTRIC – GUY ANCHOR
——он w ——	ELECTRIC - OVERHEAD WIRE
	ELECTRIC – CABINET
EM	ELECTRIC - METER
TRĂNS ELEC	ELECTRIC - SURFACE TRANSFORMER
-0-0-0-	FENCE – CHAINLINK
-x-x-x-	FENCE – WIRE FENCE – WOOD
\otimes	FENCE – GATE POST
€T3) −C−C−C−	GAS - ETS
[GM]	GAS – METER
<u></u>	GAS – VALVE
MB	GAS – VAULT MAILBOX
ROOK	ROCK
00/0	SANITARY SEWER - CLEANOUT (MAIN)
(SS)	SANITARY SEWER - MANHOLE
"S"	SANITARY SEWER - SCRIBED "S" (SERVICE)
-ss-ss-	SANITARY SEWER - MARKOUT SHRUB
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	STREET LIGHT – STREET LIGHT STREET LIGHT – ELECTROLIER
-SL-SL-	STREET LIGHT - MARKOUT
SL	STREET LIGHT - PULLBOX
	STORM DRAIN - CATCH BASIN STORM DRAIN - DROP INLET
SD	STORM DRAIN - MANHOLE
. €	SURFACE LIGHT
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	STORM DRAIN - MARKOUT TELEPHONE - MANHOLE TELEPHONE - MARKOUT TELEPHONE - PULLBOX TELEPHONE - SERVICE RISER TELEPHONE - VAULT TREE - DRIP LINE TREE - DRIP LINE TREE - DALM TRAFFIC SIGNAL - CABINET, CONTROL TRAFFIC SIGNAL - CABINET, SERVICE TRAFFIC SIGNAL - DETECTOR LOOP TRAFFIC SIGNAL - DETECTOR LOOP, BIKE TRAFFIC SIGNAL - POLETARN SIGNAL POLE TRAFFIC SIGNAL - PODESTRIAN SIGNAL POLE TRAFFIC SIGNAL - POLE M/15' MAST ARM TRAFFIC SIGNAL - POLE W/15' MAST ARM TRAFFIC SIGNAL - POLE W/20' MAST ARM TRAFFIC SIGNAL - VAULT TRUNCATED DOMES UTILITY TRENCH - CENTERLINE WATER - BLOW OFF VALVE WATER - FIRE HYDRANT WATER - FIRE HYDRANT WATER - MARKOUT WATER - MARKOUT WATER - MARKOUT WATER - MARKOUT WATER - MONITORING WELL WATER - MONITORING WELL WATER - VAULT WATER - VAULT
	STORM DRAIN - MARKOUT TELEPHONE - MANHOLE TELEPHONE - MARKOUT TELEPHONE - PULLBOX TELEPHONE - SERVICE RISER TELEPHONE - VAULT TREE - DRIP LINE TREE - DRIP LINE TREE - PALM TRAFFIC SIGNAL - CABINET, CONTROL TRAFFIC SIGNAL - CABINET, SERVICE TRAFFIC SIGNAL - DETECTOR LOOP TRAFFIC SIGNAL - DETECTOR LOOP, BIKE TRAFFIC SIGNAL - POLE TANN SIGNAL POLE TRAFFIC SIGNAL - POLESTRIAN SIGNAL POLE TRAFFIC SIGNAL - POLE 1A/1B TRAFFIC SIGNAL - POLE W/15' MAST ARM TRAFFIC SIGNAL - POLE W/20' MAST ARM TRAFFIC SIGNAL - POLE W/20' MAST ARM TRAFFIC SIGNAL - VAULT TRUNCATED DOMES UTILITY TRENCH - CENTERLINE WATER - BLOW OFF VALVE WATER - FIRE HYDRANT WATER - FIRE HYDRANT WATER - MARKOUT WATER - VAULT WATER -
	STORM DRAIN - MARKOUT TELEPHONE - MANHOLE TELEPHONE - MARKOUT TELEPHONE - PULLBOX TELEPHONE - SERVICE RISER TELEPHONE - VAULT TREE - DRIP LINE TREE - DALM TRAFFIC SIGNAL - CABINET, CONTROL TRAFFIC SIGNAL - CABINET, SERVICE TRAFFIC SIGNAL - DETECTOR LOOP TRAFFIC SIGNAL - DETECTOR LOOP, BIKE TRAFFIC SIGNAL - PEDESTRIAN SIGNAL POLE TRAFFIC SIGNAL - PEDESTRIAN SIGNAL POLE TRAFFIC SIGNAL - PEDESTRIAN SIGNAL POLE TRAFFIC SIGNAL - POLE 1A/1B TRAFFIC SIGNAL - POLE W/20' MAST ARM TRAFFIC SIGNAL - VAULT TRUNCATED DOMES UTILITY TRENCH - CENTERLINE WATER - BLOW OFF VALVE WATER - FIRE HYDRANT WATER - FIRE HYDRANT WATER - MARKOUT WATER - VAULT WATER - VAUL
	STORM DRAIN - MARKOUT TELEPHONE - MANHOLE TELEPHONE - MARKOUT TELEPHONE - PULLBOX TELEPHONE - PULLBOX TELEPHONE - SERVICE RISER TELEPHONE - VAULT TREE - DRIP LINE TREE - DRIP LINE TREE - PALM TRAFFIC SIGNAL - CABINET, SCRVICE TRAFFIC SIGNAL - CABINET, SERVICE TRAFFIC SIGNAL - DETECTOR LOOP TRAFFIC SIGNAL - DETECTOR LOOP, BIKE TRAFFIC SIGNAL - POETERIAN SIGNAL POLE TRAFFIC SIGNAL - POEDESTRIAN SIGNAL POLE TRAFFIC SIGNAL - PEDESTRIAN SIGNAL POLE TRAFFIC SIGNAL - POLE W/15' MAST ARM TRAFFIC SIGNAL - POLE W/20' MAST ARM TRAFFIC SIGNAL - VAULT TRUNCATED DOMES UTILITY TRENCH - CENTERLINE WATER - BLOW OFF VALVE WATER - FIRE HYDRANT WATER - FIRE HYDRANT WATER - MONITORING WELL WATER - MONITORING WELL WATER - MONITORING WELL WATER - VAULT WATER - MONITORING WELL WATER - VAULT WATER - MONITORING WELL WATER - VAULT WHEEL STOP TWO WAY LEFT ABANDON ASPHALT CONCRETE AGGREGATE CONCRETE BASE @ FACE
	STORM DRAIN - MARKOUT TELEPHONE - MANHOLE TELEPHONE - MARKOUT TELEPHONE - PULLBOX TELEPHONE - SERVICE RISER TELEPHONE - VAULT TREE - DRIP LINE TREE - DALM TRAFFIC SIGNAL - CABINET, CONTROL TRAFFIC SIGNAL - DETECTOR LOOP TRAFFIC SIGNAL - DETECTOR LOOP, BIKE TRAFFIC SIGNAL - DETECTOR LOOP, BIKE TRAFFIC SIGNAL - DETECTOR LOOP, BIKE TRAFFIC SIGNAL - LOOPWIRE HANDHOLE TRAFFIC SIGNAL - LOOPWIRE HANDHOLE TRAFFIC SIGNAL - PEDESTRIAN SIGNAL POLE TRAFFIC SIGNAL - PEDESTRIAN SIGNAL POLE TRAFFIC SIGNAL - POLE TA/1B TRAFFIC SIGNAL - POLE 1A/1B TRAFFIC SIGNAL - POLE W/20' MAST ARM TRAFFIC SIGNAL - VAULT TRUNCATED DOMES UTILITY TRENCH - CENTERLINE WATER - FIRE HYDRANT WATER - FIRE HYDRANT WATER - MARKOUT WATER - MARKOUT WATER - MONITORING WELL WATER - MARKOUT WATER - VAULT WATER - VAULT
	STORM DRAIN - MARKOUT TELEPHONE - MANHOLE TELEPHONE - MARKOUT TELEPHONE - PULLBOX TELEPHONE - SERVICE RISER TELEPHONE - VAULT TREE - DRIP LINE TREE - PALM TRAFFIC SIGNAL - CABINET, CONTROL TRAFFIC SIGNAL - DETECTOR LOOP TRAFFIC SIGNAL - DETECTOR LOOP, BIKE TRAFFIC SIGNAL - POLESTRIAN SIGNAL POLE TRAFFIC SIGNAL - POLESTRIAN SIGNAL POLE TRAFFIC SIGNAL - POLE W/15' MAST ARM TRAFFIC SIGNAL - POLE W/25'-55' MAST ARM TRAFFIC SIGNAL - VAULT TRUNCATED DOMES UTILITY TRENCH - CENTERLINE WATER - BLOW OFF VALVE WATER - FIRE HYDRANT WATER - FIRE HYDRANT WATER - FIRE HYDRANT WATER - MARKOUT WATER - MARKOUT WATER MARKOUT WATER - VAULT WATER - MARKOUT WATER - MARKOUT WATER - VAULT WATER - MARKOUT WATER - VAULT WHEL STOP TWO WAY LEFT ABANDON ASPHALT CONCRETE BASE @ FACE BACK FLOW PREVENTION VALVE BOTTOM FACE OF WALL
	STORM DRAIN - MARKOUT TELEPHONE - MANHOLE TELEPHONE - MARKOUT TELEPHONE - PULLBOX TELEPHONE - SERVICE RISER TELEPHONE - VAULT TREE - DRIP LINE TREE - PALM TRAFFIC SIGNAL - CABINET, CONTROL TRAFFIC SIGNAL - CABINET, SERVICE TRAFFIC SIGNAL - DETECTOR LOOP TRAFFIC SIGNAL - DETECTOR LOOP, BIKE TRAFFIC SIGNAL - DOPWIRE HANDHOLE TRAFFIC SIGNAL - PODESTRIAN SIGNAL POLE TRAFFIC SIGNAL - POLESTRIAN SIGNAL POLE TRAFFIC SIGNAL - POLE 1A/1B TRAFFIC SIGNAL - POLE 1A/1B TRAFFIC SIGNAL - POLE W/25' MAST ARM TRAFFIC SIGNAL - POLE W/25' MAST ARM TRAFFIC SIGNAL - POLE W/25' MAST ARM TRAFFIC SIGNAL - REFLECTOR POST TRAFFIC SIGNAL - VAULT TRUNCATED DOMES UTILITY TRENCH - CENTERLINE WATER - BLOW OFF VALVE WATER - FIRE HYDRANT WATER - IRRIGATION VALVE WATER - MARKOUT WATER - MARKOUT WATER - MONITORING WELL WATER - VAULT WATER - METER WATER - VAULT WATER - VAULT WATER - VAULT WATER - VAULT WATER - VAULT WATER - MARKOUT WATER - VAULT WATER - VAULT W

BSW BA	CK OF SIDEWALK
BTF BEF	RM TOP FACE
B.T. BR	ASS TAG
CAB CAI	BINET
CB CA	TCH BASIN
CL CEN	ITERLINE
CL/T CEN	NTERLINE/TOP
CSR CIT	Y OF SANTA ROSA
CMP COI	RRUGATED METAL PIPE
BFP BA	CK FLOW PREVENTION VALVE
DETECT DE	IECTOR
DI	DROP INLET
DW	DASHED WHITE
DWI	DASHED YELLOW
EDGE	EDGE/CONCRETE BAND
ELEC.	ELECTRIC
EP	EDGE OF PAVEMENT
F/C	FACE OF CURB
FDC	FIRE DEPARTMENT CONNECT
FEN	FENCE
FG	FINISH GRADE
FH FI	
FND	FOUND
GB	GRADE BREAK
GM	GAS METER
	GAS VALVE HIGH DENSITY POLYETHYLENE
HDWL	HEADWALL
IC	INTERCONNECT
INV	
I.P.	
JB	JUNCTION BOX
JP	JOINT POLE
LIP	LIP OF GUTTER
мн М/О	MANHOLE
MON.	MONUMENT
NG	NATURAL GROUND
NT	NO TAG
OHW	OVERHEAD WIRE
PB	
PB_POS	I PUSH BUTTON POST
RCP	REINFORCED CONCRETE PIPE
RPM	RAISED PAVEMENT MARKER
RR	RAILROAD
RSR	RISER
SERV.	SERVICE
SD	STORM DRAIN
SDMH	STORM DRAIN MANHOLE
SL	STREET LIGHT
22 22	SANITARY SEWER
S/W	SIDEWALK
SWL	SOLID WHITE LINE
SYL	SOLID YELLOW LINE
TC TC	TOP OF CURB
TEL	TELEPHONE
TFW	TOP FACE OF WALL
TG TOF	IOP GRAIL TOE OF BANK OR SLOPF
TREE W	TREE WELL
T. PATC	H TRENCH PATCH
TS	TRAFFIC SIGNAL
UT	UTILITY TRENCH
VG	VALLEY GUTTER

TS	TRAFFIC SIGNAL
UT	UTILITY TRENCH
VG	VALLEY GUTTER
VLT	VAULT
WM	WATER METER

WTR	WATER	

- WV WATER VALVE
- DOUBLE YELLOW Y-Y #××× STRUCTURE NUMBER



### TREE PROTECTION NOTES

- CITY STANDARDS: TREE PROTECTION SHALL COMPLY WITH THE SPECIFICATIONS. WHERE CITY REQUIREMENTS CONFLICT WITH THE CONSTRUCTION DOCUMENTS, THE MORE STRINGENT REQUIREMENT SHALL APPLY.
- 2. PROJECT STARTUP: PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL MEET ON-SITE WITH THE CITY'S REPRESENTATIVE TO REVIEW ALL WORK PROCEDURES, ACCESS ROUTES, STORAGE AREAS, AND TREE PROTECTION MEASURES.
- ROOT PROTECTION ZONE: ROOT PROTECTION ZONES SHOWN ON THE PLANS ARE APPROXIMATE. VERIFY IN FIELD. THE ROOT PROTECTION ZONE (RPZ) SHALL BE REGARDED AS THE AREA BENEATH A TREE'S CANOPY, OR EXTENDING FROM THE FACE OF THE TRUNK TO TEN (10) TIMES THE TREE'S DIAMETER AT BREAST HEIGHT (DBH), WHICHEVER IS GREATER. THERE SHALL BE NO DUMPING, WASHING OUT, OR STORAGE OF EQUIPMENT OR MATERIALS WITHIN THE RPZ OF ANY TREE. WORK WITHIN THE RPZ SHALL BE PERFORMED BY HAND, INCLUDING CLEAR AND GRUBBING.
- TREE PROTECTION FENCING: ROOT PROTECTION ZONES SHALL BE FENCED ACCORDING TO TREE PROTECTION DETAIL IN THE LOCATIONS SHOWN ON THE PLANS. FENCING SHALL BE ERECTED PRIOR TO ANY DEMOLITION OR CONSTRUCTION ON SITE AND SHALL NOT BE REMOVED OR MODIFIED BEFORE PROJECT COMPLETION WITHOUT AUTHORIZATION FROM THE CITY'S REPRESENTATIVE. FENCING MAY BE INSTALLED IN A SINGLE RUN AROUND MULTIPLE TREES.
- 4.1. TREE PROTECTION MEASURES SHALL NOT BE MODIFIED TO FACILITATE CONSTRUCTION ACTIVITIES, EXCEPT WITH PRIOR REVIEW AND APPROVAL BY THE CITY'S REPRESENTATIVE.
- 5. DEMOLITION: ALL EXISTING, UNUSED LINES OR PIPES BENEATH THE CANOPIES OF RETAINED TREES SHALL BE ABANDONED OR CUT OFF AT EXISTING SOIL GRADE.
- MAINTENANCE DURING CONSTRUCTION: APPLY A SIX INCH LAYER OF ARBOR MULCH WITHIN THE RPZ.
- 6.1. ANY ACCUMULATED CONSTRUCTION DUST ON LIMBS OR FOLIAGE IS TO BE REMOVED WITH WATER PERIODICALLY OR AS DIRECTED BY THE CITY'S REPRESENTATIVE.
- TRENCHING AND GRADING: THERE SHALL BE NO TRENCHING OR GRADING WITHIN THE RPZ EXCEPT WITH PRIOR APPROVAL OF THE CITY'S REPRESENTATIVE. WHERE TRENCHING HAS BEEN APPROVED, FOLLOW THE PROCEDURE OUTLINED IN NOTE #8 BELOW. ANY EQUIPMENT USED SHALL BE OPERATED OUTSIDE THE RPZ.
- 7.1. ALL UTILITIES, BOXES, METERS, VAULTS AND SERVICES ARE TO BE ROUTED BEYOND RPZ UNLESS SPECIFICALLY NOTED ON PLANS TO ROUTE WITHIN RPZ.
- 7.2. ANY GRADE CHANGES OUTSIDE THE RPZ SHALL NOT SIGNIFICANTLY ALTER DRAINAGE TO OR FROM THE TREE. NO GRADING SHALL OCCUR WITHIN THE RPZ. IF GRADING CONFLICTS ARISE. NOTIFY THE CITY'S REPRESENTATIVE PRIOR TO COMMENCING ADJACENT GRADING OPERATIONS.
- ROOT CUTTING: PRIOR TO EXCAVATING WITHIN A RPZ, A TRENCH SHALL BE DUG ALONG THE EDGE OF THE EXCAVATION CLOSEST TO THE TREE TRUNK. THIS TRENCH SHALL BE DUG BY HAND OR WITH AN AIR SPADE TO A DEPTH OF 30 INCHES, AND SHALL BE OF A SUFFICIENT WIDTH TO MANUALLY SEVER ANY ROOTS ENCOUNTERED GREATER THAN 2" DIAMETER. CUTS SHALL BE MADE PERPENDICULAR TO THE DIRECTION OF THE ROOT'S GROWTH, USING A CLEAN HAND SAW. AFTER ROOTS ARE CLEANLY SEVERED, EXCAVATION EQUIPMENT MAY BE USED AS REQUIRED ON THE SIDE OF THE TRENCH FARTHEST FROM THE TREE.
- 8.1. WITHIN ONE HOUR, CUT OR EXPOSED ROOTS SHALL BE COVERED WITH MOIST SOIL OR WITH BURLAP THAT IS KEPT WET UNTIL THE EXCAVATION CAN BE BACK-FILLED AND WATERED THOROUGHLY.
- SOIL PREPARATION: NO RIPPING OR ROTOTILLING SHALL OCCUR WITHIN THE RPZ, 9. UNLESS APPROVED BY THE CITY'S REPRESENTATIVE.
- 10. PLANTING AND IRRIGATION: NO PLANTING OR IRRIGATION SHALL BE INSTALLED WITHIN 6 FEET OF TRUNKS OF EXISTING TREES UNLESS OTHERWISE INDICATED ON PLANS. NEWLY PLANTED TREES SHALL BE IRRIGATED PER IRRIGATION DRAWINGS. MULCH SHALL NOT BE PLACED DIRECTLY AGAINST TRUNKS.
- 11. PRUNING: AT NO TIME SHALL TREE LIMBS BE CUT BY CONSTRUCTION PERSONNEL. NO PRUNING SHALL TAKE PLACE EXCEPT AS DIRECTED BY THE CITY'S REPRESENTATIVE. WORK MUST BE PERFORMED BY A CERTIFIED ARBORIST IN ACCORDANCE WITH THE ISA TREE PRUNING GUIDELINES.
- 12. DAMAGE: THE CONTRACTOR SHALL BE HELD LIABLE FOR ANY DAMAGE TO EXISTING TREES, I.E. TRUNK WOUNDS, BROKEN LIMBS, POURING OF ANY DELETERIOUS MATERIALS, OR CONCRETE WASHOUT UNDER THE DRIPLINE OF THE TREES. DAMAGES WILL BE ASSESSED USING THE "GUIDE TO PLANT APPRAISAL" 9TH EDITION, PUBLISHED BY THE INTERNATIONAL SOCIETY OF ARBORICULTURE. ANY DAMAGE OR INJURY TO TREES DURING CONSTRUCTION SHALL BE REPORTED TO THE CITY'S REPRESENTATIVE IMMEDIATELY SO THAT REMEDIAL ACTION CAN BE TAKEN.

#### FOR DEMOLITION AND EROSION **CONTROL NOTES SEE SHEET 4**



· · · · · · · · · · · · · · · · · · ·	CLEAR AND GRUB
	REMOVE AND DISPOS THE UNDERLYING BAS
	EXISTING TREE TO REM WHERE SHOWN ON P
<	REMOVE AND DISPOS
—o—	CONSTRUCTION FENC
	TREE PROTECTION FER
R.	TO REMAIN, PROTECT
8.R.	to be removed and

DEMOLITION KEY NOTES	

CODE	DESCRIPTION
D-101	NET POST AND ASSOCIATED FOOTINGS, T.B.R.
D-103	CENTER ANCHOR TIE DOWN AND ASSOCIATED

#### **DEMOLITION NOTES**

1. CLEAR AND GRUB: CLEAR AND GRUB ALL EXISTING VEGETATION, UNLESS OTHERWISE INDICATED, AS REQUIRED FOR THE SITE CONSTRUCTION, IRRIGATION, AND PLANTING OPERATIONS. LIMITS OF CLEARING SHALL BE REVIEWED WITH THE CITY'S REPRESENTATIVE PRIOR TO COMMENCEMENT OF WORK. STRIP ALL ORGANIC MATTER TO A SUFFICIENT DEPTH TO COMPLETELY REMOVE SUCH MATERIAL.

REVIEW DEMOLITION, AND CLEARING AND GRUBBING REQUIREMENTS ON SITE WITH CITY'S REPRESENTATIVE PRIOR TO COMMENCING DEMOLITION OPERATIONS.

ALL DEMOLITION OPERATIONS WITHIN THE DRIP LINE OF TREES SHALL CONFORM TO TREE PROTECTION REQUIREMENTS.

EXISTING SITE FURNISHINGS AND IRRIGATION EQUIPMENT TO BE REMOVED SHALL BE RETURNED TO THE CITY UNLESS OTHERWISE SPECIFIED.

2. IRRIGATION EQUIPMENT: REFER TO THE IRRIGATION PLAN FOR DISPOSITION OF EXISTING IRRIGATION EQUIPMENT, AND OTHERWISE PROTECT IN PLACE.

PERFORM EXISTING IRRIGATION SYSTEM VERIFICATION PRIOR TO COMMENCING DEMOLITION. SEE IRRIGATION NOTES FOR REQUIREMENTS.

3. WINDSCREEN REMOVAL: REMOVE ALL WINDSCREEN ON EXISTING FENCE SURROUNDING ALL COURTS. FOR BIDDING PURPOSES ASSUME 620 LINEAR FEET.

### **EROSION CONTROL NOTES**

- RAIN EVENT ACTION PLAN: CONTRACTOR MUST ENSURE THAT THE CONSTRUCTION SITE IS PREPARED PRIOR TO THE ONSET OF ANY STORM. A RAIN EVENT ACTION PLAN (REAP), MUST BE IMPLEMENTED TO PROTECT ALL EXPOSED PORTIONS OF THE SITE WITHIN 48 HOURS PRIOR TO ANY LIKELY PRECIPITATION EVENT. CONTRACTOR SHALL HAVE ALL EROSION AND SEDIMENT CONTROL MEASURES IN PLACE FOR CONSTRUCTION.
- 2 EROSION AND SEDIMENT CONTROL: ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED UNTIL DISTURBED AREAS ARE STABILIZED. CHANGES TO THE EROSION AND SEDIMENT CONTROL PLAN SHALL BE MADE TO MEET FIELD CONDITIONS ONLY WITH THE APPROVAL OF OR AT THE DIRECTION OF A REPRESENTATIVE OF THE CITY.
- 3. FIELD CHANGES: THIS PLAN MAY NOT COVER ALL THE SITUATIONS THAT ARISE DURING CONSTRUCTION DUE TO UNANTICIPATED FIELD CONDITIONS. VARIATIONS MAY BE MADE TO THE PLAN IN THE FIELD SUBJECT TO THE APPROVAL OF OR AT THE DIRECTION OF A REPRESENTATIVE OF THE CITY.
- MAINTENANCE MEASURES: ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CHECKED WEEKLY DURING PERIODS OF HEAVY USAGE, BI-WEEKLY DURING PERIODS OF NORMAL USAGE AND BEFORE AND AFTER ALL STORM EVENTS TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.
- 5 STABILIZED CONSTRUCTION ENTRANCE: THE CONTRACTOR SHALL INSTALL THE STABILIZED CONSTRUCTION ENTRANCE PRIOR TO COMMENCEMENT OF GRADING. LOCATION OF THE ENTRANCE MAY BE ADJUSTED BY THE CONTRACTOR TO FACILITATE GRADING OPERATIONS. ALL CONSTRUCTION TRAFFIC ENTERING THE PAVED ROAD MUST CROSS THE STABILIZED CONSTRUCTION ENTRANCE.

ROAD AND TIRE CLEANING: ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE REMOVED AT THE END OF EACH WORKING DAY. ALL TRUCK TIRES SHALL BE CLEANED PROPERLY BEFORE LEAVING THE SITE.

6.

7. TRENCHES: AFTER UTILITY TRENCHES ARE BACKFILLED AND COMPACTED, THE SURFACES OVER SUCH TRENCHES SHALL BE MOUNDED SLIGHTLY TO PREVENT CHANNELING OF WATER IN THE TRENCH AREA. CARE SHOULD BE EXERCISED TO PROVIDE FOR CROSS-FLOW AT FREQUENT INTERVALS.

8. CONTRACTOR RESPONSIBILITY: THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS INCURRED WITH ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL MEASURE MAINTENANCE THROUGHOUT THE DURATION OF THE PROJECT.

DAMAGED EROSION CONTROL DEVICES: DAMAGED 9. EROSION CONTROL DEVICES SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AS SOON AS PRACTICAL AFTER THE DAMAGE OCCURS.

10. DAILY WATERING: DURING GRADING OPERATIONS THE SITE SHALL BE WATERED ON A DAILY BASIS TO MINIMIZE THE RELEASE OF DUST AND OTHER PARTICULATE MATTER.



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### **GRADING LEGEND**



PROPOSED CONTOUR: 1'-0" INTERVAL TYP. (EXISTING CONTOURS ARE SCREENED ON PLAN)

PROPOSED SPOT ELEVATION (EXISTING SPOT ELEVATIONS ARE SCREENED ON PLAN)

<u>(</u>278.47) SPOT ELEVATION EQUAL TO EXISTING GRADE, FIELD VERIFY

DIRECTION AND PERCENT SLOPE OF SHEET DRAINAGE



<u>← 2%</u>

FLUSH CONDITION BENCHMARK

### **GRADING AND DRAINAGE NOTES**

- 1. GRADING AND DRAINAGE: ALL PROPOSED PAVING, CURBS, WALLS, AND PLANTING AREAS SHALL SMOOTHLY CONFORM TO EXISTING ADJACENT FEATURES TO REMAIN. PROVIDE POSITIVE DRAINAGE ON ALL PAVING AND THROUGHOUT ALL PLANTING AREAS. CONTRACTOR SHALL FLOOD PAVED AREAS UPON COMPLETION AND RECONSTRUCT ANY LOW SPOTS AS DIRECTED. PAVING SHALL HAVE A RUNNING SLOPE OF 4.9% MAXIMUM WITH A CROSS SLOPE OF 1% MINIMUM TO 2% MAXIMUM UNLESS OTHERWISE SHOWN ON PLANS.
- 2. TOPSOIL STOCKPILE: STRIP AND STOCKPILE NATIVE TOPSOIL IN AN AMOUNT SUFFICIENT TO INSTALL A 6" LAYER OF TOPSOIL IN ALL PROPOSED PLANTING AREAS. STOCKPILE LOCATION(S) TO BE DETERMINED DURING CONSTRUCTION.
- 3. TOPSOIL PLACEMENT: CROSS-RIP ALL ROUGH-GRADED PLANTING AREA SUBSOILS AS SPECIFIED PRIOR TO TOPSOIL PLACEMENT.
- 4. BACKFILL: EXCAVATED MATERIAL NOT SUITABLE FOR BACKFILLING SHALL BE REMOVED AND LEGALLY DISPOSED OF OFF-SITE.
- 5. GRADING: CONTRACTOR SHALL PERFORM ALL EARTHWORK AND GRADING PER GEOTECHNICAL ENGINEER'S RECOMMENDATIONS AND PROJECT SPECIFICATIONS.





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### SITE CONSTRUCTION LEGEND



### SITE CONSTRUCTION NOTES

- 1. <u>CHAIN LINK FENCE REPAIR:</u> REPAIR EXISTING 10'-0" TALL CHAIN LINK FENCE AT THE LOCATIONS SHOWN ON THE PLAN AND AS DIRECTED BY THE CITY. FOR BIDDING PURPOSES ASSUME REMOVAL AND REPLACEMENT OF 70 LINEAR FEET OF GALVANIZED CHAIN LINK FABRIC.
- 2. <u>DIMENSIONS:</u> ALL DIMENSIONS SHOWN SUPERSEDE SCALED DIMENSIONS. ALL DIMENSIONS ARE TO FACE OF CURB, EDGE OF CONCRETE FLATWORK/MOWBAND, OR CENTERLINE OF FENCE.
- 3. <u>PROJECT STAKING:</u> ALL PROPOSED SITE FEATURES SHALL BE STAKED IN FIELD BY THE CONTRACTOR FOR REVIEW BY THE CITY'S REPRESENTATIVE PRIOR TO CONSTRUCTION. ALL CURVES SHALL BE SMOOTH AND CONTINUOUS WITH CAREFULLY MATCHED TANGENTS.





### **PROJECT INFORMATION**

A. DATE: SEE TITLE BLOCK

- B. PROJECT APPLICANT: CITY OF SANTA ROSA
- C. PROJECT ADDRESS: 630 SUMMERFIELD RD, SANTA ROSA, CA 95405
- D. TOTAL LANDSCAPE AREA: SEE WATER EFFICIENT LANDSCAPE WORKSHEET
- E. PROJECT TYPE: REHABILITATED
- F. WATER SUPPLY TYPE: POTABLE, CITY OF SANTA ROSA WATER
- G. LANDSCAPE DOCUMENTATION PACKAGE CHECKLIST:
- PROJECT INFORMATION
- WATER EFFICIENT LANDSCAPE WORKSHEET 2.
- _ *SOIL MANAGEMENT REPORT 3.
- LANDSCAPE DESIGN PLAN (SEE SHEET L7.0-L7.2)
- IRRIGATION DESIGN PLAN (SEE SHEET L6.0-L6.2)
- GRADING DESIGN (SEE SHEET L4.0-L4.2) #CERTIFICATE OF COMPLETION
- _____ *CERTIFICATE OF INSTALLATION 8.
- *IRRIGATION SCHEDULE 9.
- _____ 10. _____ *MAINTENANCE SCHEDULE
- 11. _____ ⁺*LANDSCAPE IRRIGATION AUDIT
- *CONTRACTOR SHALL FURNISH UPON PROJECT COMPLETION.

#CITY/CITY'S REPRESENTATIVE SHALL FURNISH UPON PROJECT COMPLETION.

⁺CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF IRRIGATION AUDIT BY THE LOCAL AGENCY, OR A THIRD PARTY CERTIFIED LANDSCAPE IRRIGATION AUDITOR. LANDSCAPE AUDITS SHALL NOT BE CONDUCTED BY THE PERSON WHO DESIGNED THE LANDSCAPE OR INSTALLED THE LANDSCAPE. CONTRACTOR IS RESPONSIBLE TO PAY FOR ALL ASSOCIATED FEES.

Η. PROJECT CONTACTS:

> OWNER/CITY: CITY OF SANTA ROSA SCOTT WILKINSON 55 STONY POINT ROAD SANTA ROSA, CA 95401 PHONE: (707) 543-3953

LANDSCAPE ARCHITECT: CALLANDER ASSOCIATES DAVE RUBIN 1633 BAYSHORE HIGHWAY, SUITE 133 BURLINGAME, CA 94010 PHONE: (650) 375-1313

### LANDSCAPE DOCUMENTATION NOTES

- MWELO CODES AND REFERENCES: A COPY OF THE MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO) DOCUMENT CAN BE FOUND AT WATER.CA.GOV. REFER TO MWELO SECTION 492.9 FOR CERTIFICATE OF COMPLETION REQUIREMENTS AND APPENDIX C FOR SAMPLE OF CERTIFICATE OF COMPLETION AND CERTIFICATE OF INSTALLATION FORM.
- IRRIGATION PLAN CONTROLLER COPY: THE CONTRACTOR SHALL PLACE A LAMINATED 11X17 COPY OF THE IRRIGATION PLAN 2. SHOWING THE HYDROZONES WITHIN THE IRRIGATION CONTROLLER(S) CABINET FOR FUTURE MANAGEMENT USE.

#### WATER EFFICIENT LANDSCAPE WORKSHEET

	WAT	<b>FER EFFICIENT</b>	LANDSCAPE	WORKSHE	ET				
This worksheet is	filled out by the p	roject applicant and	it is a required ele	ement of the Lan	dscape Docu	mentat	ion Package	e.	
Reference Evapotranspiration (ETo)		42.0	_						
Hydrozone # /Planting Description ^a	Plant Factor (PF) ^f	Irrigation Method ^b	Irrigation Efficiency (IE) ^c	ETAF (PF/IE)	Landsca Area (sq	ipe . ft.)	ETAF x /	Area	Estimate Water (ETW
Regular Landscape Areas					I				
Low Water Use Plantings	0.2	Drip	0.81	0.25	3,975		981		25,5
	1	<b>I</b>	- I	Totals	3,975	(A)	981	(B)	
Special Landscape Areas									
				1					
				1					
				1					
				Totals	0	(C )	0	(D)	25.5
							ETWU	J Total	25,5
Maximum Applied Water Allowance (MAWA) ^e							46,5		

I AGREE TO COMPLY WITH THE CRITERIA OF THE WATER EFFICIENT LANDSCAPE ORDINANCE AND SUBMIT A COMPLETE LANDSCAPE DOCUMENTATION PACKAGE

SIGNATURE

DAVE RUBIN

d Total Use U) ^d	
58	
58	
79	



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		City of	Santa Rose		
					BΥ
					REVISION
					DATE
					NO.
	SCALE: AS SHOWN DATE: 1/15/2025	DWN BY: IC/DC CHK BY: NR	APPROVED: Director – Engineering	Date	Dan Hennessey
	CITY OF SANTA ROSA	<b>GALVIN COURTS RENOVATION</b>		LANDSCAFE DOCUMENIAIION	
		CON	TRACT	NO. 4	5
L6.1	FILE	E NO.	2024	4-00	) 14

#### PLANTING LEGEND



EXISTING TREE TO REMAIN

MULCH ONLY, NO PLANTING

### **PLANTING NOTES**

- 1. MULCH: INSTALL A UNIFORM THREE INCH COVERING OF MULCH IN ALL PLANTING AREAS, PER SPECIFICATIONS.
- 2. EXISTING PLANT MATERIAL: PROTECT ALL EXISTING PLANT MATERIAL AND TURF GRASS TO REMAIN. REPAIR ANY DAMAGES INCURRED AS A DIRECT RESULT OF THIS CONTRACT TO THE CITY'S SATISFACTION AT NO ADDITIONAL COST.
- 3. GROUNDCOVER: PROVIDE GROUNDCOVER AT INDICATED ON-CENTER SPACING THROUGHOUT ALL AREAS TO BE PLANTED. GROUNDCOVER SHALL BE PROVIDED UP TO THE WATERING BASIN OF ALL SHRUBS.
- 4. QUANTITIES: THE QUANTITIES SHOWN ON THE LABELS ARE NOT TO BE CONSTRUED AS THE COMPLETE AND ACCURATE LIMITS OF THE CONTRACT. FURNISH AND INSTALL ALL PLANTS SHOWN SCHEMATICALLY ON THE DRAWINGS.
- 5. TOPSOIL: ALL PLANTING AREAS TO RECEIVE A SIX INCH LAYER OF NATIVE TOPSOIL PER specifications.
- 6. <u>SOILS TESTING:</u> SEE SPECIFICATIONS FOR TESTING OF TOPSOIL AND AMENDMENTS. CONTRACTOR SHALL ALLOW SUFFICIENT TIME FOR TESTING PRIOR TO CONSTRUCTION.



#### **PLANT LIST**

		CODE	BOTANICAL / COMMON NAME	SIZE	WATER USE	SPACING
	SHRUBS					
	$\Box$	JUN SKY	JUNIPERUS SCOPULORUM 'SKYROCKET' / SKYROCKET JUNIPER	15 GAL	LOW	48" o.c.
		PHO AMR	PHORMIUM X 'AMAZING RED' / AMAZING RED NEW ZEALAND FLAX	1 GAL	LOW	36" o.c.
3 H8.4	(+)	PHO DUE	PHORMIUM X 'DUET' / DUET NEW ZEALAND FLAX	1 GAL	LOW	36" o.c.
		RHA MOU	RHAMNUS CALIFORNICA 'MOUND SAN BRUNO' / MOUND SAN BRUNO COFFEEBERRY	5 GAL	LOW	72" o.c.
		SAL POZ	SALVIA X 'POZO BLUE' / POZO BLUE SAGE	5 GAL	LOW	48" o.c.
	SHRUB / (	GROUNDCOVER AF	REAS			
4		HEL SEM	HELICTOTRICHON SEMPERVIRENS / BLUE OAT GRASS	1 GAL	MED	24" o.c.
H8.4		CIS PUL	CISTUS X PULVERULENTUS 'SUNSET' / SUNSET ROCKROSE	5 GAL	LOW	72'' o.c.







anderassociates.com Project No. 24023				
		City of	Santa Rosa	
				BY
				REVISION
				DATE
				NO.
	SCALE: AS SHOWN DATE: 1/15/2025	DWN BY: IC/DC CHK BY: NR	APPROVED: Director – Engineering	By Date Date
	CITY OF SANTA ROSA	HOWARTH COURTS RENOVATION	CONSTRUCTION DETAILS	
H8.0	SHE	CON C ET	TRACT N 00714 10 OF 2024-0	10. 15 0014





www.callanderassociates.co CALA Project No. 24023

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P-P2911-67	SCALE: AS SHOWN DATE: 1/15/2025	DWN BY: IC/DC CHK BY: NR		APPROVED: Director – Engineering		By Date	Dan Hennessey
	CITY OF SANTA ROSA	HOWARTH COURTS RENOVATION			CONSIRUCION DEIAILS		
H8.1	SHI	CON C EET E NO	  TR# 200 11 . 20	аст )71 ( )24	N( 4 )F 4-0	5. 15 01	4







H8.2

1/8" = 1'-0"





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CONTRACT NO. C00714

SHEET 12 OF 15

H8.2 FILE NO. 2024-0014

- EXISTING FENCE POST - INSTALL NEW CHAIN LINK FABRIC TO EXISTING FENCE POST -EXISTING MID-RAIL - EXISTING BOTTOM RAIL - FINISH GRADE

- TOP RAIL, EXISTING

PROP-PP-P2911-73

PROP-PP-P2911-76









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RECTANGULAR VALVE ------BOX, TYP. 1'-0'' Ο Ο Ο Ο - BACK OF CONCRETE MOWBAND  $\overline{P}$ OR PAVEMENT

PROP-PP-P2911-78

TO NEXT PLANTING AREA ON SAME ZONE, WHERE OCCURS PER PLANS

-FLUSH VALVE, WHERE SHOWN ON PLAN EDGE OF PLANTING AREA

- EMITTER LINE, TYP.

- DRIP REMOTE CONTROL ZONE KIT -LATERAL LINE

(5) DRIP TUBING LATERAL CONNECTION

- EDGE OF PLANTING AREA - PVC DRIP HEADER, TYP.

TO NEXT PLANTING AREA ON SAME ZONE, WHERE OCCURS PER PLANS

PROP-PP-P2911-82

	City of	Santa Rosa			
					BΥ
					REVISION
					DATE
					NO
SCALE: AS SHOWN DATE: 1/15/2025	DWN BY: IC/DC CHK BY: NR	APPROVED: Director – Engineering	•	By Date	Dan Hennessey
CITY OF SANTA ROSA	HOWARTH COURTS RENOVATION		CONSTRUCTION DETAILS		

CONTRACT NO. C00714

SHEET 13 OF 15

H8.3 FILE NO. 2024-0014





2 DRI H8.4 1" = 1"







PROP-PP-P2911-83





1633 Bayshore Highway, Suite 133 Burlingame, CA 94010 T 650.375.1313 www.callanderassociates.com CALA Project No. 24023

DATE: 1/15/2025		_			
CHK BY: NR					City of
or – Engineering					Santa Kosa
Date					
ssey	NO.	DATE	REVISION	ВY	

	- SHRUB
	- Set root ball 2" above FINISH GRADE
	- MULCH: 3" LAYER
	- FINISH GRADE
I	- PLANT PIT, 2 X CONTAINER WIDTH BACKFILL-SEE SPECS
	- PLANTING TABLETS, PLACE IN CONTACT WITH ROOT BALL HALFWAY UP
	-NATIVE SOIL, UNDISTURBED

PROP-PP-P2911-86

	DATE: 1/15/2025		CHK BY: NR		– Engineering		Date	
	SCALE: AS SHOWN		DWN BY: IC/DC		APPROVED: Director		By	Dan Hennesser
	CITY OF SANTA ROSA		HOWARIH COURIS RENOVATION			CONSIRUCION DEIAILS		
		С	ON C		аст )71	⁻ N( 4	D.	
H8.4	SH FIL	EE E	T NO.	14 20	) 24	ງ⊧ 4-0	15	)  4
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#### CONCRETE NOTES:

1. ALL CONCRETE SHALL BE NORMAL WEIGHT PER ACI 301 AND HAVE PROPORTIONS OF CEMENT, COARSE AND FINE AGGREGATE, WATER AND ADMIXTURES TO PRODUCE THE PROPERTIES SPECIFIED FOR EACH CONCRETE MIX TYPE PER ACI 301 ON THE BASIS OF PREVIOUS FIELD EXPERIENCE AND SUPPORTED BY PREVIOUS TEST RECORDS.

2. CONCRETE SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES. REFER TO PROJECT SPECIFICATIONS (WHERE APPLICABLE) FOR ADDITIONAL REQUIREMENTS.

CLASS	APPLICATION	STRENGTH	MAX W/C	
		f'c (psi)	Ratio	
CLASS A	FOOTINGS	4500	0.45	
TEST CONCRETE STRENGTH PER 2022 CBC CH 17				

- A. THE APPROVED PROPORTIONS SHALL BE CAREFULLY MAINTAINED. NO DEVIATION FROM THE APPROVED PROPORTIONS SHALL BE MADE WITHOUT WRITTEN
- APPROVAL BY ENGINEER. B. USE ADMIXTURES IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. USE WATER-REDUCING ADMIXTURE THAT WILL NOT RESULT IN
- SEGREGATION, HONEYCOMBING, OR ROCK POCKETS. C. ANY OF THE ABOVE MIXES CAN BE USED FLOWABLE (8" MAX SLUMP) IF THE PROPER ADDITION OF ADMIXTURES IS INCLUDED AND THE WATER TO CEMENT RATIO IS NOT INCREASED
- D. CEMENT PER ASTM C-150 TYPE I OR II FLY ASH PER ASTM C-618 CLASS N OR CLASS F UP TO 20% OF PORTLAND CEMENT MAY BE SUBSTITUTED WITH FLY ASH
- COARSE AND FINE AGGREGATES PER ASTMC-33 F. ADMIXTURES AND DOSAGES WILL VAY WITH CLIMATE AND JOB SITE REQUIREMENTS. CONTRACTOR IS RESPONSIBLE FOR PROVIDING MIX DESIGN SUITABLE FOR JOB SITE CONDITIONS. ADMIXTURES CONTAINING CHLORIDES ARE NOT PERMITTED.
- 3. ALL DEBRIS SHALL BE REMOVED FROM FORMS AND FOOTING EXCAVATIONS PRIOR TO POURING CONCRETE. NO WOOD STAKES OR FORM SPREADERS SHALL BE PERMITTED IN CONCRETE.
- 4. BALL REINFORCEMENT, ANCHOR BOLTS, AND OTHER EMBEDDED ITEMS SHALL BE SECURED IN POSITION SHOWN ON DRAWINGS PRIOR TO PLACING CONCRETE.
- 5. CONCRETE SHALL BE CONSOLIDATED BY MECHANICAL VIBRATION PER ACI 309 BY MEANS SUITABLE FOR ON SITE CONDITIONS. USE HAND RODDING OR TAMPING AS REQUIRED.
- 6. CONSTRUCTION JOINTS SHALL HAVE ALL LOOSE MATERIAL REMOVED AND SHALL BE INTENTIONALLY ROUGHENED TO ¹/₄" AMPLITUDE PRIOR TO POURING CONCRETE. CONTRACTOR SHALL SUBMIT CONSTRUCTION JOINT LOCATIONS TO ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.
- 7. ALL FORMWORK TO REMAIN IN PLACE FOR DURATION AS REQUIRED BY LATEST EDITION OF ACI 318
- 8. REFER TO ACI RECOMENDATIONS FOR PLACING AND CURING CONCRETE IN COLD AND HOT WEATHER CONDITIONS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING CONCRETE MIX DESIGN WITH BATCH PLANT TO PROVIDE CONCRETE MIX APPROPRIATE FOR SITE CONDITIONS.
- 9. CONTRACTOR IS RESPONSIBLE FOR DETERMING AND IMPLEMENTING APPROPRIATE CURING PROCEDURES FOR ACTUAL SITE/WEATHER CONDITIONS AND SHALL INCLUDE PROVISIONS FOR INCLEMENT WEATHER. REFER TO ACI 308R.
- 10. ALL SLABS SHALL BE FLAT AND LEVEL W/A TOLERANCE OF  $\frac{3}{16}$ " IN 10' FOR FLATNESS AND MINIMUM LOCAL VALUE F = 32 PER ASTM 1155. THE PROJECT OWNER MAY REJECT ANY CONSTRUCTION THAT DOES NOT MEET THE FLATNESS CRITERIA NOTED WITH REPLACEMENT AT CONTRACTOR'S EXPENSE.
- 11. CONDUITS AND PIPES EMBEDDED IN THE SLAB (OTHER THAN THOSE PASSING VERTICALLY THROUGH) SHALL NOT BE PERMITTED. CONTRACTOR TO SUBMIT FOOTING PENETRATIONS TO STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.

CONCRETE REINFORCEMENT NOTES:

- 1. DETAIL, FABRICATE, AND PLACE REINFORCING PER ACI 315 AND ACI 318. SUPPORT REINFORCEMENT W/APPROVED CHAIRS, SPACERS, OR TIES.
- 2. REINFORCEMENT SHALL BE DEFORMED BILLET STEEL PER ASTM A-615. GRADE 60. ALL REINFORCEMENT AT BOUNDARY ELEMENTS AND REINFORCEMENT TO BE WELDED SHALL BE
- ASTM A-706, GRADE 60. 3. ALL BENDING OF REINFORCEMENT PER ACI. FIELD BENDING OF
- REINFORCEMENT SHALL NOT BE PERMITTED.
- 4. REINFORCEMENT IN WALLS, SLABS, BEAMS AND FOOTINGS SHALL BE CONTINUOUS AROUND CORNERS OR CORNER BARS PROVIDED
- 5. LAP ALL REINFORCEMENT 48DB FOR #6 AND SMALLER BARS, 60DB FOR #7 AND LARGER BARS. INCREASE LAP LENGTH 30% WHERE MORE THAN 12" OF FRESH CONCRETE IS POURED UNDER REINFORCEMENT.
- 6. TRIM REINFORCING AROUND OPENINGS SHALL BE A MINIMUM 2-#5 TOP AND BOTTOM EXTENDING 40" BEYOND OPENING AT EACH CORNER. PROVIDE 90° HOOK AT CORNERS WHERE STRAIGHT EMBEDMENT NOT POSSIBLE.
- 7. REINFORCING SHALL BE TIED IN PLACE. TACK WELDING OF REINFORCING IS NOT PERMITTED.
- 8. CONTRACTOR TO TAKE NECESSARY PRECAUTIONS TO INSURE CONCRETE IS PROPERLY CONSOLIDATED AROUND ALL BOLTS, ANCHORAGES, ETC.
- 9. WHERE REINFORCING IS NOT SPECIFIED, REFER TO ACI 318 FOR MINIMUM REINFORCEMENT. 10. WELDED WIRE FABRIC PER ASTM A-185 AND ASTM A-82.
- 11. DEFORMED BAR ANCHORS PER ASTM A-496.

12. PROVIDE MINIMUM COVER FOR ALL REINFORC	ING AS FC	LLOWS
APPLICATION	COVER	
	2"	

APPLICATION	COVER
CONCRETE CAST AGAINST EARTH	3"
CONCRETE EXPOSED TO EARTH OR WEATHER:	
#5 AND SMALLER	11/2"
#6 AND LARGER	2"
CONCRETE NOT EXPOSED TO EARTH OR	
WEATHER:	
SLABS AND WALLS	³ ⁄4"
BEAMS AND COLUMNS	11⁄2"

- 13. STAGGER LAPS IN ADJACENT BARS 6'-0" MINIMUM 14. PROVIDE FOOTING DOWELS TO MATCH SIZE AND SPACING OF
- VERTICAL REINFORCEMENT UNO. 15. ALL REINFORCING TO BE WELDED SHALL BE ASTM A-706 AND CONTINUOUSLY INSPECTED AND PERFORMED PER AWS STANDARDS.
- 16. REINFORCING WHICH IS TO BE DOWELED INTO EXISTING CONCRETE SHALL BE INSTALLED W/SIMPSON AT-XP PER IAPMO ER-263 UNO

#### TESTS & INSPECTIONS:

TESTING AGENCY AS NOTED BLW AND SHALL CONFORM	то тн	E
<u>CONCRETE:</u>	Inspections	Continuous
INSPECT ANCHORS CAST IN CONCRETE		. 🗆
<ol> <li>INSPECT POST-INSTALLED ANCHORS         <ul> <li>A. ADESIVE ANCHORS INSTALLED IN HORIZINTALLY O UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS</li> <li>B. ALL OTHER MECHANICAL AND ADHESIVE ANCHORS</li> </ul> </li> <li>REINFORCING STEEL AND PLACEMENT</li></ol>	R S	
SOILS:		
<ol> <li>FOOTING EXVACTIONS AND BEARING</li></ol>		

TESTS & INSPECTIONS SHALL BE PROVIDED BY A QUALIFIED

- A. OBSERVE DRILLING OPERATIONS B. LOCATIONS, DIMENSIONS, EMBEDMENT_ C. END BEARING FOUNDATION NOTES:
- 1. FOUNDATIONS ARE DESIGNED IN ACCORDING TO THE PROJECT GEOTECHNICAL REPORT 7394.004.PW.1 FOR HOWARTH COMMUNITY PARK.

#### DRILLED PIER FOUNDATIONS

PROPERTY	VALUE
ALLOWABLE SKIN FRICTION	300 PSF
LATERAL PRESSURE	150 PCF
LATERAL PRESSURE	150 PCF

- 2. FOOTINGS SHALL BEAR ON FIRM, DRY, UNDISTURBED SOIL OR COMPACTED FILL PER SOILS REPORT. FOOTING DEPTHS INDICATED ON THE PLANS ARE MINIMUM. AREAS OVER-EXCAVATED SHALL BE BACKFILLED W/COMPACTED STRUCTURAL FILL PER SOILS REPORT OR LEAN CONCRETE (F'C=1000 PSI) AT CONTRACTOR'S EXPENSE.
- 3. CONTRACTOR TO NOTIFY ENGINEER OF RECORD IMMEDIATELY WHERE JOB SITE CONDITIONS ARE DIFFERENT THAN SHOWN ON CONTRACT DOCUMENTS.
- 4. ALL FOOTINGS NOT FORMED SHALL BE POURED INTO NEAT EXCAVATIONS. PRECAUTIONS SHALL BE TAKEN TO PREVENT SLOUGHING OF SOIL INTO THE FOOTING EXCAVATION PRIOR TO AND DURING THE PLACEMENT OF CONCRETE.

#### STRUCTURAL STEEL NOTES:

THE FABRICATION AND ERECTION OF ALL STEEL CONSTRUCTION SHALL CONFORM TO THE 2022 CBC AND THE AISC STEEL CONSTRUCTION MANUAL 16th EDITION.

#### 2. STRUCTURAL STEEL SHAPES SHALL CONFORM TO THE FOLLOWING

2.1	CHANNELS	ASTM A36, Fy = 36 KSI
2.2	ANGLES	ASTM A36, Fy = 36 KSI
2.3	BARS AND PLATES	ASTM A36, Fy = 36 KSI
2.4	PIPE	SCHEDULE 40 - ASTM A53, GRAD
		TYPE E OR S, Fy = 30 KSI (MIN)
2.5	RECTANGULAR HSS	ASTM A500, GRADE B, Fy = 46 KS
2.6	ROUND HSS	ASTM A500. GRADE B. Fv = 46 KS

- 3. WELDING SHALL BE BY THE ELECTRIC ARC PROCESS (SHIELDED METAL ARC WELDING, FLUX CORE ARC WELDING, GAS METAL ARC WELDING) PER AWS STANDARDS AND BY CERTIFIED WELDERS. REFER TO "QUALIFICATION PROCEDURE" AWS D1.1
- 4. ALL WELDED JOINTS AND ELECTRODES ARE TO BE "PREQUALIFIED." ALL WELDING ELECTRODES ARE TO BE E70XX UNO. FCAW FILLER METAL WIRE SHALL BE  $\frac{5}{64}$ " MAX DIAMETER AND SMAW FILLER METAL WIRE SHALL BE  $\frac{5}{32}$ " MAX DIAMETER.
- 5. ALL STRUCTURAL STEEL SHALL BE ERECTED PLUM AND TRUE TO LINE. TEMPORARY BRACING SHALL BE INSTALLED AS REQUIRED TO MAINTAIN STABILITY OF THE STRUCTURE UNTIL THE STRUCTURAL SYSTEM IS SUBSTANTIALLY COMPLETE.
- 6. ALL STRUCTURAL STEEL ITEMS EMBEDDED IN CONCRETE AND LOCATED BELOW GRADE SHALL HAVE 3" MINIMUM COVER. ALL STRUCTURAL STEEL ITEMS EMBEDDED IN CONCRETE AND LOCATED ABOVE GRADE AT CONCRETE EXPOSED TO WEATHER SHALL HAVE 1¹/₂" MINIMUM COVER.
- 7. ALL STEEL BOLTS ARE TO HAVE STANDARD GAGE AND PITCH PER AISC. ALL STEEL-TO-STEEL BOLTED CONNECTIONS SHALL BE WITH A325-N BOLTS, UNO. ALL EMBEDDED ANCHOR BOLTS SHALL BE F1554 GRADE 36 UNO. HOLES AT STEEL-TO-STEEL CONNECTIONS ARE TO BE 16" OVERSIZE AND HOLES AT STEEL COLUMN BASE PLATES ARE TO BE ¹/₈" OVERSIZE, UNO.
- 8. STRUCTURAL STEEL IS TO BE SHOP PRIMED WITH ONE COAT, EXCEPT THE BELOW NOTED LOCATIONS, WHERE PRIMER SHALL BE HELD 2" CLEAR:
- 8.1 STEEL SURFACES EMBEDDED IN CONCRETE
- 8.2 SURFACES TO BE FIELD WELDED
- 8.3 CONTACT SURFACES WITH HIGH STRENGTH BOLTED CONNECTIONS
- 9. ALL STRUCTURAL COLUMNS ARE TO BE SET UPON ANCHOR RODS WITH LEVELING NUTS ALLOWING APPROXIMATELY 1¹/₂" ± CLEARANCE. CLEARANCE SPACE UNDER COLUMNS AND BLOCK-OUTS IN CURBS FOR COLUMN PLACEMENT ARE TO BE FILLED WITH A NON-SHRINK, HIGH-STRENGTH, POURABLE GROUT.



