

IMPROVEMENT PLANS FOR:
SILVERTON SHORES PARK



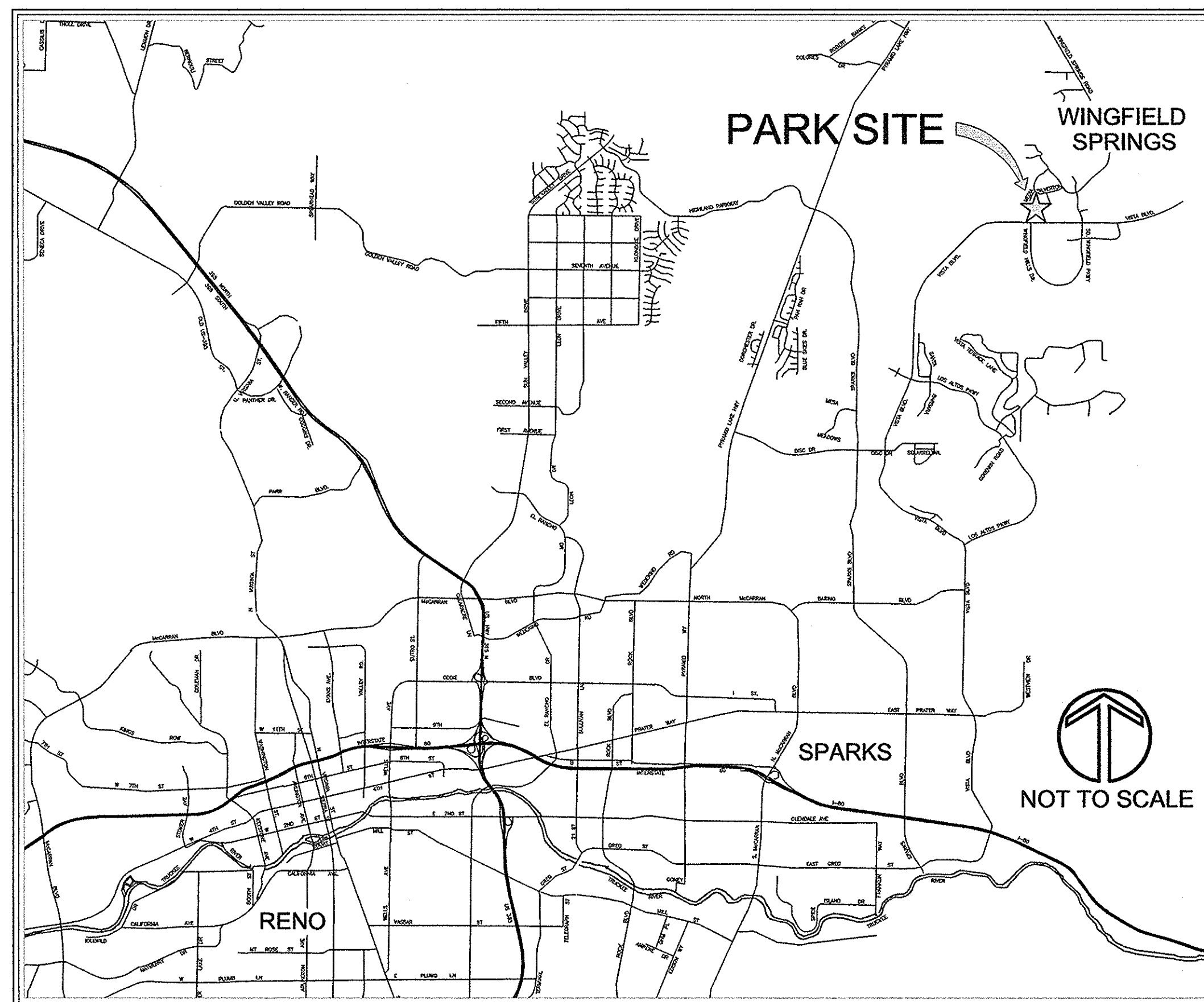
APRIL, 2017

GENERAL NOTES

- ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS (ORANGE BOOK), LATEST EDITION, AND LATEST STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION, EXCEPT AS MODIFIED BY THESE PLANS OR SPECIAL PROVISIONS.
 - CALL USA 48 HRS. PRIOR TO INITIATING WORK 1-800-227-2600
 - THE CONTRACTOR SHALL MAINTAIN A DUST CONTROL PROGRAM TO INCLUDE WATERING OF OPEN AREAS AND SHALL MAINTAIN CONFORMITY WITH SECTION 40.050 OF CITY OF SPARKS AIR POLLUTION REGULATIONS.
 - THE EXISTING UTILITIES SHOWN ON THESE IMPROVEMENT PLANS ARE FOR THE CONTRACTOR'S INFORMATION AND WERE OBTAINED FROM UTILITY COMPANY RECORDS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY LOCATION, SIZE, TYPE, ETC. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE UTILITIES NOT SHOWN OR NOT IN THE LOCATION SHOWN ON THESE PLANS. THE CONTRACTOR IS DIRECTED TO NOTIFY THE PROJECT ENGINEER IN CASE OF ANY CONFLICT BETWEEN NEW AND EXISTING UTILITIES.
 - DRAINAGE:**
 - THE CONTRACTOR SHALL MAINTAIN ALL EXISTING DRAINAGE FACILITIES WITHIN THE CONSTRUCTION AREA UNTIL NEW DRAINAGE IMPROVEMENTS ARE IN PLACE AND FUNCTIONING.
 - NO FENCE OR OTHER OBSTRUCTION WHICH INTERFERES WITH DRAINAGE SHALL BE CONSTRUCTED OR ALLOWED WITHIN THE DRAINAGE OR STORM DRAIN EASEMENTS.
 - IN ORDER TO EXPEDITE THE INSPECTION AND TESTING OF MATERIALS, THE CONTRACTOR SHALL FURNISH COMPLETE STATEMENTS TO THE ENGINEER AS TO THE ORIGIN, COMPOSITION AND MANUFACTURE OF ALL MATERIALS TO BE USED IN THE WORK. SUCH STATEMENTS SHALL BE FURNISHED PROMPTLY AFTER EXECUTION OF THE CONTRACT, BUT IN ALL CASES PRIOR TO DELIVERY OF SUCH MATERIALS.
 - ALL EXCAVATION AND EMBANKMENT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
 - IT IS THE INTENT OF THESE SPECIFICATIONS AND IMPROVEMENT PLANS THAT THE WORK PERFORMED UNDER THE CONTRACT SHALL RESULT IN A COMPLETE OPERATING SYSTEM IN SATISFACTORY WORKING CONDITION WITH RESPECT TO THE FUNCTIONAL PURPOSES OF THE INSTALLATION. IF THERE ARE ANY QUESTIONS REGARDING THE STATED OR IMPLIED MEANING OF THESE PLANS, THE CONTRACTOR IS DIRECTED TO CONTACT THE CONSULTING LANDSCAPE ARCHITECT IMMEDIATELY.
- LA STUDIO NEVADA
1552 C STREET
SPARKS, NV 89431
PHONE: (775) 323-2223
- ALL AREAS DISTURBED AND LEFT UNDEVELOPED FOR A PERIOD OF MORE THAN THIRTY (30) DAYS SHALL BE STABILIZED BY THE APPLICATION OF DUST PALLIATIVE.
 - SHOULD ANY PREHISTORIC REMAINS OR ARTIFACTS BE DISCOVERED DURING SITE DEVELOPMENT, WORK SHALL TEMPORARILY BE HALTED AT THE SPECIFIC SITE AND THE DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES, DIVISION OF HISTORIC PRESERVATION AND ARCHEOLOGY, SHALL BE NOTIFIED TO RECORD AND PHOTOGRAPH THE SITE. THE PERIOD OF TEMPORARY DELAY SHALL BE LIMITED TO A MAXIMUM OF TWO WORKING DAYS FROM THE DATE OF NOTIFICATION.
 - A PRECONSTRUCTION MEETING WILL BE HELD WITH CITY OF SPARKS PRIOR TO ANY CONSTRUCTION.
 - NO MATERIALS OF ANY KIND SHALL BE STOCKPILED OR CONSTRUCTION EQUIPMENT PARKED ON CONCRETE OR ASPHALT SURFACES. STOCKPILING OF MATERIALS AND PARKING OF VEHICLES OR EQUIPMENT SHOULD ONLY OCCUR IN NON-PLANTED AREAS OR AROUND THE OUTSIDE PERIMETER OF THE DRIP LINE OF ANY EXISTING OR PROPOSED TREE. NATURAL AREAS SHOULD RECEIVE NO COMPACTION DAMAGE.
 - EXCESS OR UNSUITABLE MATERIAL WHICH CANNOT BE USED ONSITE, SHALL BE DISPOSED OF OFFSITE AT THE SOLE COST AND EXPENSE OF THE CONTRACTOR, AND IN CONFORMANCE WITH CITY OF SPARKS PUBLIC WORKS AND HEALTH DEPARTMENT REGULATIONS.
 - ALL EXISTING FEATURES IN CONFLICT WITH PROPOSED IMPROVEMENTS SHALL BE REMOVED, RELOCATED, AND/OR REPLACED. CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENGINEER AND THE GOVERNING AGENCIES PRIOR TO SUCH REMOVAL, RELOCATION, AND/OR REPLACEMENT.
 - ALL P.C.C. CURB, GUTTER, SIDEWALK, AND SLOPE FACING SHALL BE CLASS AA OR DA CONCRETE (4000 PSI), WITH BROOM FINISH, UNLESS OTHERWISE INDICATED.
 - ALL CONCRETE CURB AND GUTTER SHALL HAVE 1/2" EXPANSION JOINTS EVERY 30 FOOT INTERVAL, AT ALL POINTS ABUTTING BUILDINGS OR STRUCTURES, AND AT ALL CURB RETURNS UNLESS OTHERWISE APPROVED IN WRITING BY THE ENGINEER. EXPANSION JOINTS ABUTTING BUILDINGS AND STRUCTURES SHALL HAVE SILICONE APPLIED TO THE JOINT TO PREVENT WATER INTRUSION. WEAKENED PLANE JOINTS SHALL BE EVERY 10 FEET AND STRUCK-THRU AS THE SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION INDICATES.
 - CONCRETE SIDEWALKS SHALL HAVE 1/2" EXPANSION JOINTS AT ALL POINTS ABUTTING BUILDINGS AND STRUCTURES, EVERY 30 FOOT INTERVAL, AT ALL SIDEWALK RETURNS, AND OPPOSITE EXPANSION JOINTS IN ADJACENT CURBS. EXPANSION JOINTS ABUTTING BUILDINGS AND STRUCTURES SHALL HAVE SILICONE APPLIED TO THE JOINT TO PREVENT WATER INTRUSION. WEAKENED PLANE JOINTS SHALL BE LOCATED AT INTERVALS NOT EXCEEDING 1.2 TIMES THE WIDTH AND NO MORE FREQUENTLY THAN 0.9 TIMES THE WIDTH. IN NO CASE SHALL REGULAR INTERVALS OF WEAKENED PLANE JOINTS IN EITHER DIRECTION EXCEED 10 FEET.
 - IN AREAS WHERE NEW CURB, GUTTER OR SIDEWALK IS TO MATCH EXISTING, THE CONTRACTOR SHALL REMOVE THE EXISTING CURB, GUTTER, OR SIDEWALK TO THE CLOSEST JOINT.
 - THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION FOR THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY, AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE OWNER, LANDSCAPE ARCHITECT, AND ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER, LANDSCAPE ARCHITECT, OR THE ENGINEER.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXCAVATION AND SHORING PROCEDURES AND CONFORM TO THE LATEST O.S.H.A. REQUIREMENTS.
 - THE CONTRACTOR SHALL PURSUE THE WORK IN A CONTINUOUS AND DILIGENT MANNER, CONFORMING TO ALL THE PERTINENT SAFETY REGULATIONS, TO INSURE A TIMELY COMPLETION OF THE PROJECT.
 - THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS REQUIRED FOR THE WORK.
 - THE CONTRACTOR SHALL PROTECT FROM DAMAGE EXISTING IMPROVEMENTS ON AND AROUND THE SITE INCLUDING, BUT NOT LIMITED TO, PAVEMENT, CURB AND GUTTER, SIDEWALK, LANDSCAPING, SIGNAGE, STORM AND SANITARY SEWERS, UTILITIES, TELEPHONE, AND CABLE TELEVISION. THE CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR THE REPAIR AND/OR REPLACEMENT OF ANY IMPROVEMENTS (NEW OR EXISTING) DAMAGED THROUGHOUT THE COURSE OF CONSTRUCTION, EITHER AS A DIRECT RESULT OF HIS ACTIVITIES OR HIS FAILURE TO ADEQUATELY PROTECT THE IMPROVEMENTS.

Existing Site Data Notes:

- THE CONTRACTOR IS CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AND FEATURES AS SHOWN ON THESE PLANS IS BASED ON THE BEST INFORMATION AVAILABLE TO THE LANDSCAPE ARCHITECT. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE.
- IT IS BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THESE LOCATIONS AND/OR ELEVATIONS AT THE PROPOSED POINTS OF CONNECTION AND IN AREAS OF POSSIBLE CONFLICT PRIOR TO BEGINNING CONSTRUCTION. SHOULD THE CONTRACTOR FIND ANY DISCREPANCIES BETWEEN THE CONDITIONS EXISTING IN THE FIELD AND THE INFORMATION SHOWN ON THESE DRAWINGS, HE SHALL NOTIFY THE OWNER'S REPRESENTATIVE BEFORE PROCEEDING WITH CONSTRUCTION.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE OR RELOCATE ALL EXISTING UTILITIES AND FEATURES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS. CONTRACTOR SHALL OBTAIN APPROVALS FROM THE GOVERNING AGENCIES, THE OWNER'S REPRESENTATIVE, AND THE UTILITY COMPANIES PRIOR TO SUCH REMOVAL AND/OR RELOCATION.



Vicinity Map

CITY OF SPARKS APPROVAL

Tracy Domingues
City of Sparks Parks and Recreation Director

Jon R. Ericson, P.E., EIT
City of Sparks Engineer

PROJECT TEAM:

City of Sparks,
Parks and Recreation Department
Contact: Chris Cobb, PE
98 Richards Way, Sparks, NV 89431
Ph. (775)353-2376

Landscape Architect
LA Studio Nevada
Contact: Dale Doerr, R.L.A.
1552 C Street, Sparks, Nevada 89431
Ph. (775) 323-2223

Civil Engineer
Wood Rodgers
Contact: Mike Davidson, P.E.
Reno, NV 89502
Ph. (775) 823-4062

Electrical Engineer
PK Electric, Inc.
Contact: Joey Ganser, P.E.
Reno, NV 89511
Ph. (775) 826-9010

SHEET INDEX:

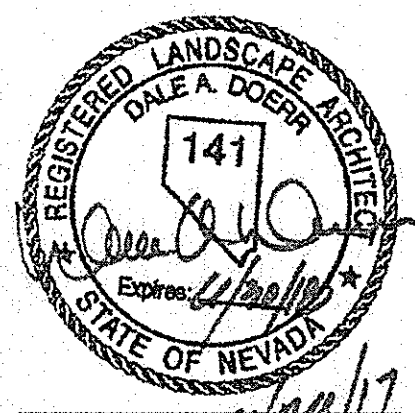
- L-1 Cover Sheet
- L-2 Reference Plan
- L-3 Reference Plan

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 - S-1 Site Plan
 - D-1 Detail Sheet
 - E-1 Erosion Control Plan

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 - L5 Landscape Planting Plan
 - L6 Reclaimed Irrigation Plan
 - L7 Reclaimed Irrigation Plan
 - L8 Reclaimed Irrigation Details & Specs
 - L9 Landscape Planting Details & Specs
 - L10 Playground Specification Sheet

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- E-0 Electrical Legend, Online Diagram, Panel Schedule, & Drawing Schedule
 - E-1 Electrical Notes & Diagram
 - E-2 Electrical Site Plan

BID SET



Cover Sheet
SILVERTON SHORES PARK
City of Sparks, Parks Department

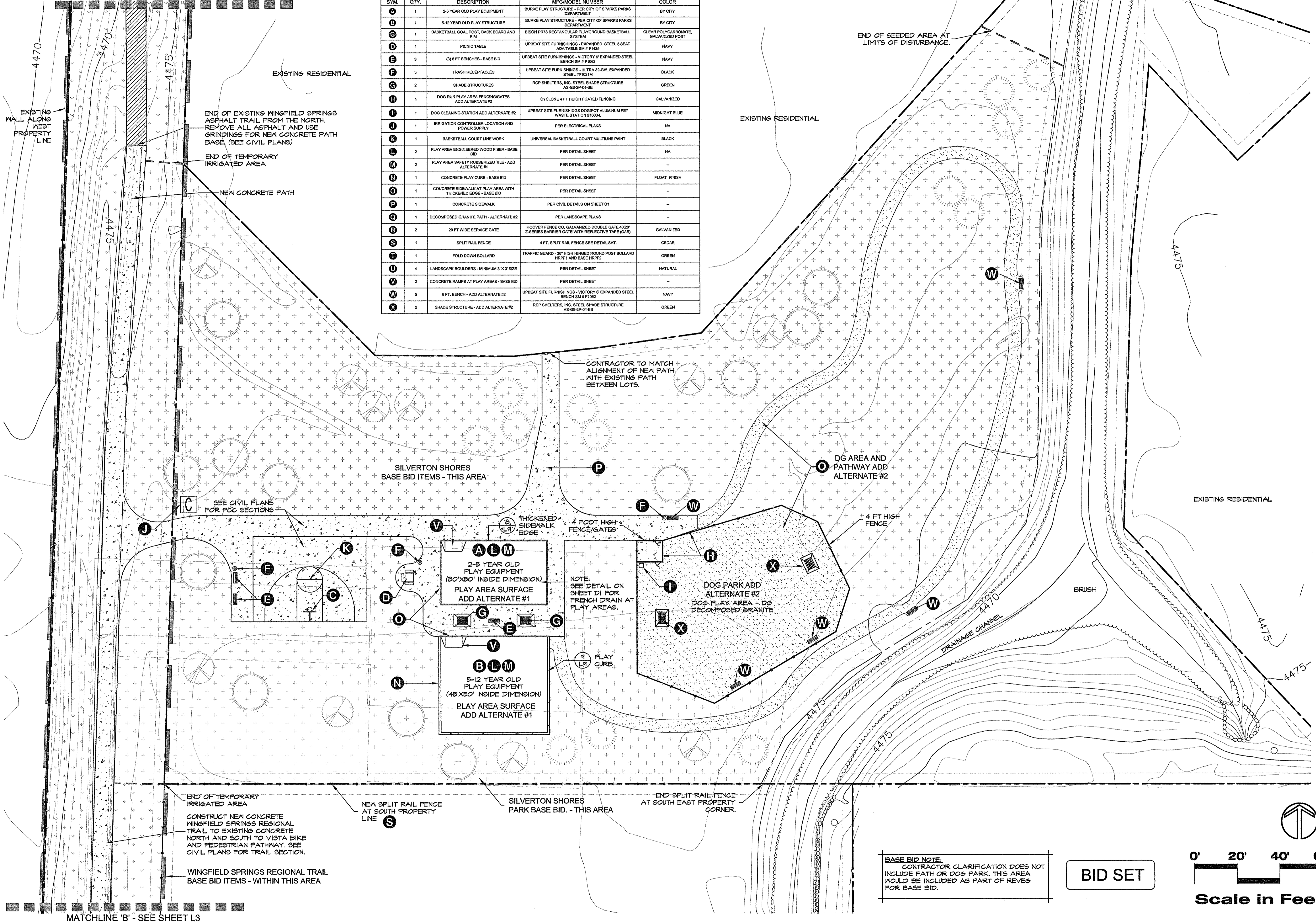
No.	Revision Date

LA No: 251-504-08-16
Designed: DD
Drawn: GGG
Checked: RPH
Date: 6/20/17

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L1
of
16

MATCHLINE 'A' - SEE SHEET L3

REFERENCE CHART				
SYM.	QTY.	DESCRIPTION	MFG/MODEL NUMBER	COLOR
A	1	2-5 YEAR OLD PLAY EQUIPMENT	BURKE PLAY STRUCTURE - PER CITY OF SPARKS PARKS DEPARTMENT	BY CITY
B	1	5-12 YEAR OLD PLAY STRUCTURE	BURKE PLAY STRUCTURE - PER CITY OF SPARKS PARKS DEPARTMENT	BY CITY
C	1	BASKETBALL GOAL POST, BACK BOARD AND RIM	BISON PRT8 RECTANGULAR PLAYGROUND BASKETBALL SYSTEM	CLEAR POLYCARBONATE, GALVANIZED POST
D	1	PICNIC TABLE	UPBEAT SITE FURNISHINGS - EXPANDED STEEL 3 SEAT ADA TABLE SM # F1435	NAVY
E	3	(9) 6 FT BENCHES - BASE BID	UPBEAT SITE FURNISHINGS - VICTORY 6' EXPANDED STEEL BENCH SM # F1062	NAVY
F	3	TRASH RECEPTACLES	UPBEAT SITE FURNISHINGS - ULTRA 33-GAL EXPANDED STEEL #1021M	BLACK
G	2	SHADE STRUCTURES	RCP SHELTERS, INC. STEEL SHADE STRUCTURE AS-GS-SP-04-68	GREEN
H	1	DOG RUN PLAY AREA FENCING/GATES ADD ALTERNATE #2	CYCLONE 4 FT HEIGHT GATED FENCING	GALVANIZED
I	1	DOG CLEANING STATION ADD ALTERNATE #2	UPBEAT SITE FURNISHINGS DOGPOT ALUMINUM PET WASTE STATION #1003L	MIDNIGHT BLUE
J	1	IRRIGATION CONTROLLER LOCATION AND POWER SUPPLY	PER ELECTRICAL PLANS	NA
K	1	BASKETBALL COURT LINE WORK	UNIVERSAL BASKETBALL COURT MULTILINE PAINT	BLACK
L	2	PLAY AREA ENGINEERED WOOD FIBER - BASE BID	PER DETAIL SHEET	NA
M	2	PLAY AREA SAFETY RUBBERIZED TILE - ADD ALTERNATE #1	PER DETAIL SHEET	-
N	1	CONCRETE PLAY CURB - BASE BID	PER DETAIL SHEET	FLOAT FINISH
O	1	CONCRETE SIDEWALK AT PLAY AREA WITH THICKENED EDGE - BASE BID	PER DETAIL SHEET	-
P	1	CONCRETE SIDEWALK	PER CIVIL DETAILS ON SHEET D1	-
Q	1	DECOMPOSED GRANITE PATH - ALTERNATE #2	PER LANDSCAPE PLANS	-
R	2	20 FT WIDE SERVICE GATE	HOOVER FENCE CO. GALVANIZED DOUBLE GATE 4'X20' 2-SERIES BARRIER GATE WITH REFLECTIVE TAPE (M45)	GALVANIZED
S	1	SPLIT RAIL FENCE	4 FT. SPLIT RAIL FENCE SEE DETAIL SHT.	CEDAR
T	1	FOLD DOWN BOLLARD	TRAFFIC GUARD - 30" HIGH HINGED ROUND POST BOLLARD HRP11 AND BASE HRP2	GREEN
U	4	LANDSCAPE BOULDERS - MINIMUM 3' X 3' SIZE	PER DETAIL SHEET	NATURAL
V	2	CONCRETE RAMPS AT PLAY AREAS - BASE BID	PER DETAIL SHEET	-
W	5	6 FT. BENCH - ADD ALTERNATE #2	UPBEAT SITE FURNISHINGS - VICTORY 6' EXPANDED STEEL BENCH SM # F1062	NAVY
X	2	SHADE STRUCTURE - ADD ALTERNATE #2	RCP SHELTERS, INC. STEEL SHADE STRUCTURE AS-GS-SP-04-68	GREEN



EXISTING RESIDENTIAL

EXISTING RESIDENTIAL

EXISTING RESIDENTIAL

NEW CONCRETE PATH

CONTRACTOR TO MATCH ALIGNMENT OF NEW PATH WITH EXISTING PATH BETWEEN LOTS.

END OF SEEDED AREA AT LIMITS OF DISTURBANCE.

SEE CIVIL PLANS FOR PCC SECTIONS

SILVERTON SHORES BASE BID ITEMS - THIS AREA

DG AREA AND PATHWAY ADD ALTERNATE #2

END OF TEMPORARY IRRIGATED AREA

NEW SPLIT RAIL FENCE AT SOUTH PROPERTY LINE

SILVERTON SHORES PARK BASE BID - THIS AREA

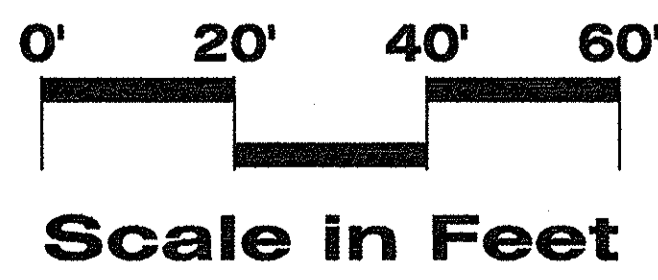
END SPLIT RAIL FENCE AT SOUTH EAST PROPERTY CORNER.

CONSTRUCT NEW CONCRETE WINGFIELD SPRINGS REGIONAL TRAIL TO EXISTING CONCRETE NORTH AND SOUTH TO VISTA BIKE AND PEDESTRIAN PATHWAY. SEE CIVIL PLANS FOR TRAIL SECTION.

WINGFIELD SPRINGS REGIONAL TRAIL BASE BID ITEMS - WITHIN THIS AREA

BASE BID NOTE.
CONTRACTOR CLARIFICATION DOES NOT INCLUDE PATH OR DOG PARK. THIS AREA WOULD BE INCLUDED AS PART OF REVEG FOR BASE BID.

BID SET



MATCHLINE 'B' - SEE SHEET L3

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 the landscape architecture studio
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 www.la-studio.com
 NV RLA #440

REGISTERED LANDSCAPE ARCHITECT
 DALE A. DOBBS
 141
 State of Nevada
 Exp. 12/31/2021

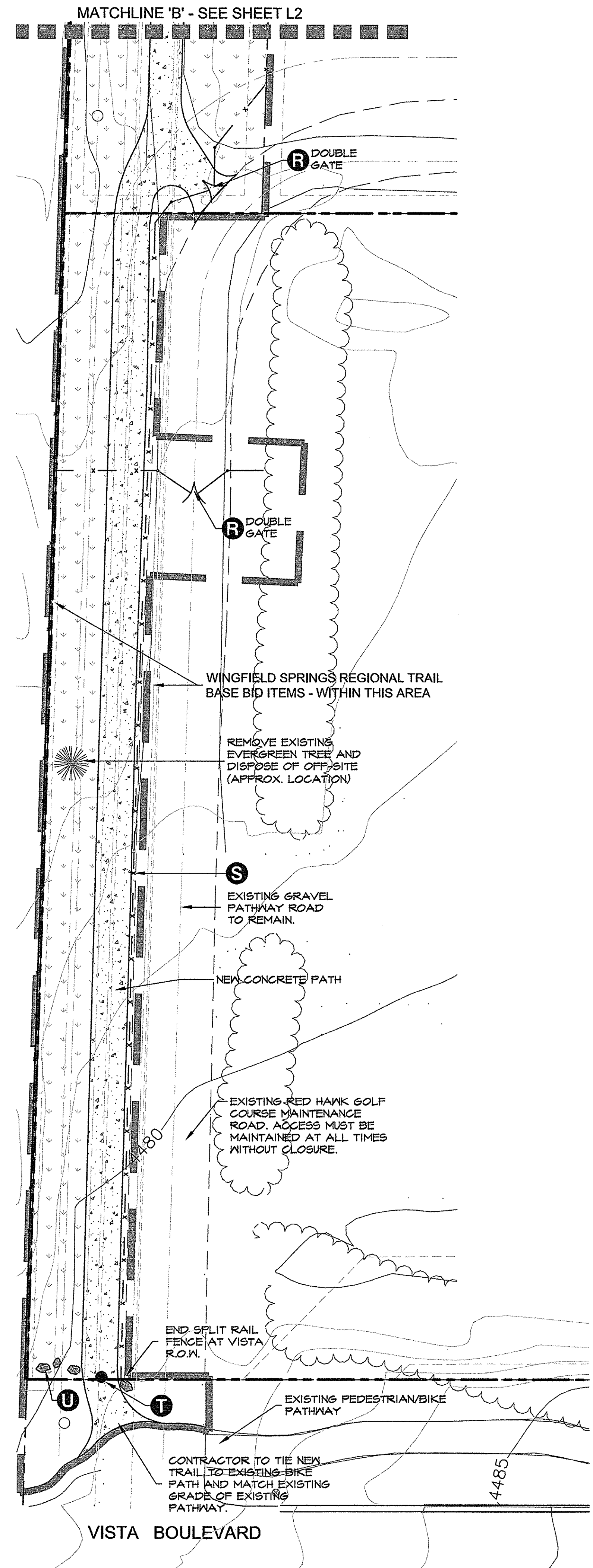
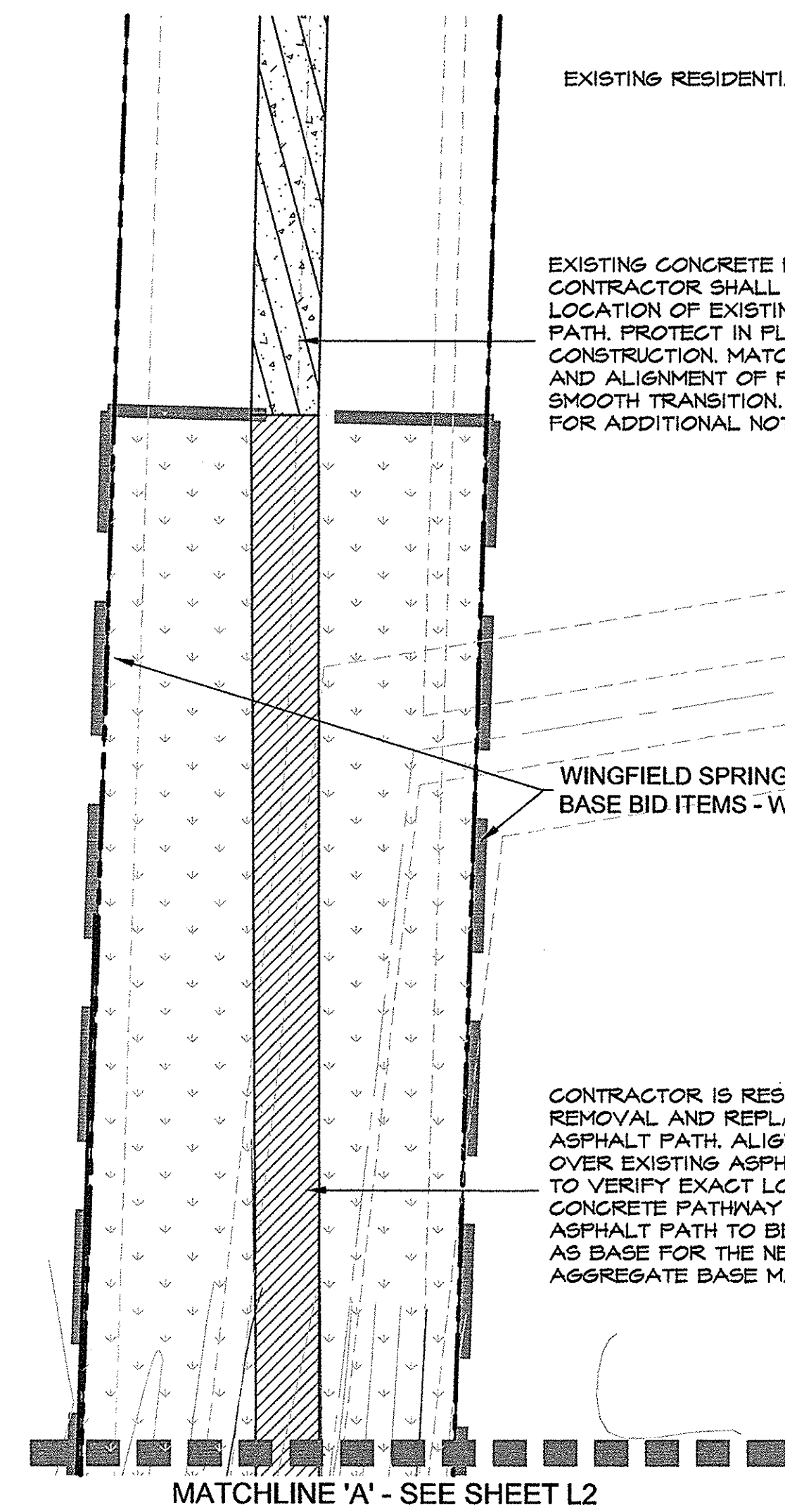
Park Reference Plan
SILVERTON SHORES PARK
 City of Sparks, Parks Department

Washoe Co. Sparks

No.	Revision Date

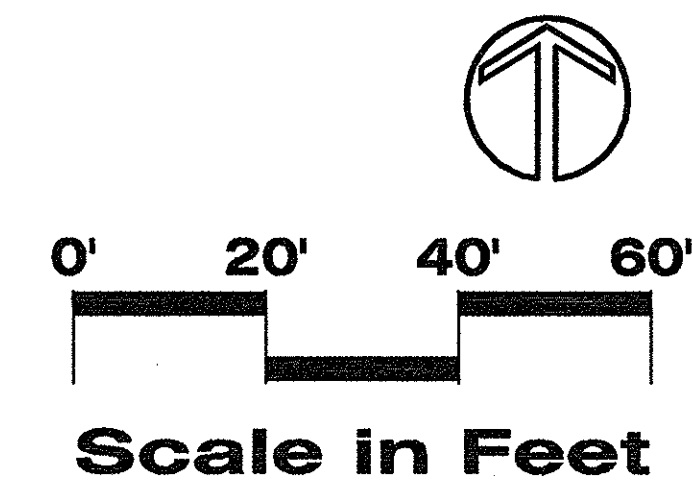
LA No: 257-204-02-16
 Designed: DD
 Drawn: GSS
 Checked: RPH
 Date: 6/20/17

Sheet
L2
 of
 16



REFERENCE CHART				
SYM.	QTY.	DESCRIPTION	MFG/MODEL NUMBER	COLOR
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F	3	TRASH RECEPTACLES	UPBEAT SITE FURNISHINGS - ULTRA 32-GAL EXPANDED STEEL #F1021M	BLACK
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H	1	DOG RUN PLAY AREA FENCING/GATES ADD ALTERNATE #2	CYCLONE 4 FT HEIGHT GATED FENCING	GALVANIZED
I	1	DOG CLEANING STATION ADD ALTERNATE #2	UPBEAT SITE FURNISHINGS DOGIPOT ALUMINUM PET WASTE STATION #F0034	MIDNIGHT BLUE
J	1	IRRIGATION CONTROLLER LOCATION AND POWER SUPPLY	PER ELECTRICAL PLANS	NA
K	1	BASKETBALL COURT LINE WORK	UNIVERSAL BASKETBALL COURT MULTILINE PAINT	BLACK
L	2	PLAY AREA ENGINEERED WOOD FIBER - BASE BID	PER DETAIL SHEET	NA
M	2	PLAY AREA SAFETY RUBBERIZED TILE - ADD ALTERNATE #1	PER DETAIL SHEET	-
N	1	CONCRETE PLAY CURB - BASE BID	PER DETAIL SHEET	FLOAT FINISH
O	1	CONCRETE SIDEWALK AT PLAY AREA WITH THICKENED EDGE - BASE BID	PER DETAIL SHEET	-
P	1	CONCRETE SIDEWALK	PER CIVIL DETAILS ON SHEET D1	-
Q	1	DECOMPOSED GRANITE PATH - ALTERNATE #2	PER LANDSCAPE PLANS	-
R	2	20 FT WIDE SERVICE GATE	HOOVER FENCE CO. GALVANIZED DOUBLE GATE 4'X37' Z-SERIES BARRIER GATE WITH REFLECTIVE TAPE (GAE)	GALVANIZED
S	1	SPLIT RAIL FENCE	4 FT. SPLIT RAIL FENCE SEE DETAIL SMT.	CEDAR
T	1	FOLD DOWN BOLLARD	TRAFFIC GUARD - 37" HIGH HINGED ROUND POST BOLLARD HRP1 AND BASE HRP2	GREEN
U	4	LANDSCAPE BOULDERS - MINIMUM 3' X 3' SIZE	PER DETAIL SHEET	NATURAL
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X	2	SHADE STRUCTURE - ADD ALTERNATE #2	RCP SHELTERS, INC. STEEL SHADE STRUCTURE AS-28-2P-04-6B	GREEN

BID SET



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(775) 323-2223
NV RLA #440

REGISTERED LANDSCAPE ARCHITECT
DALE A. DODR
141
STATE OF NEVADA

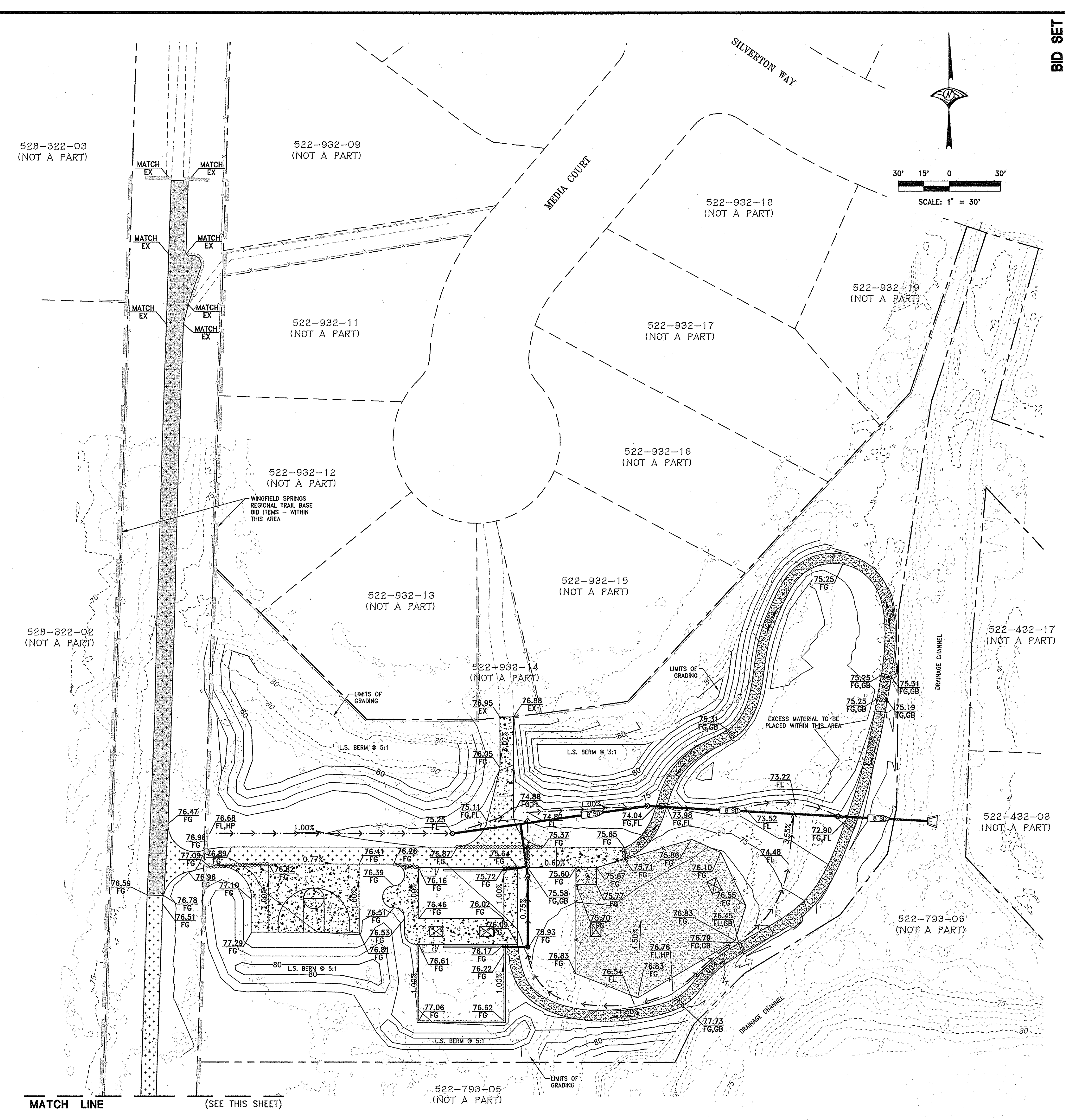
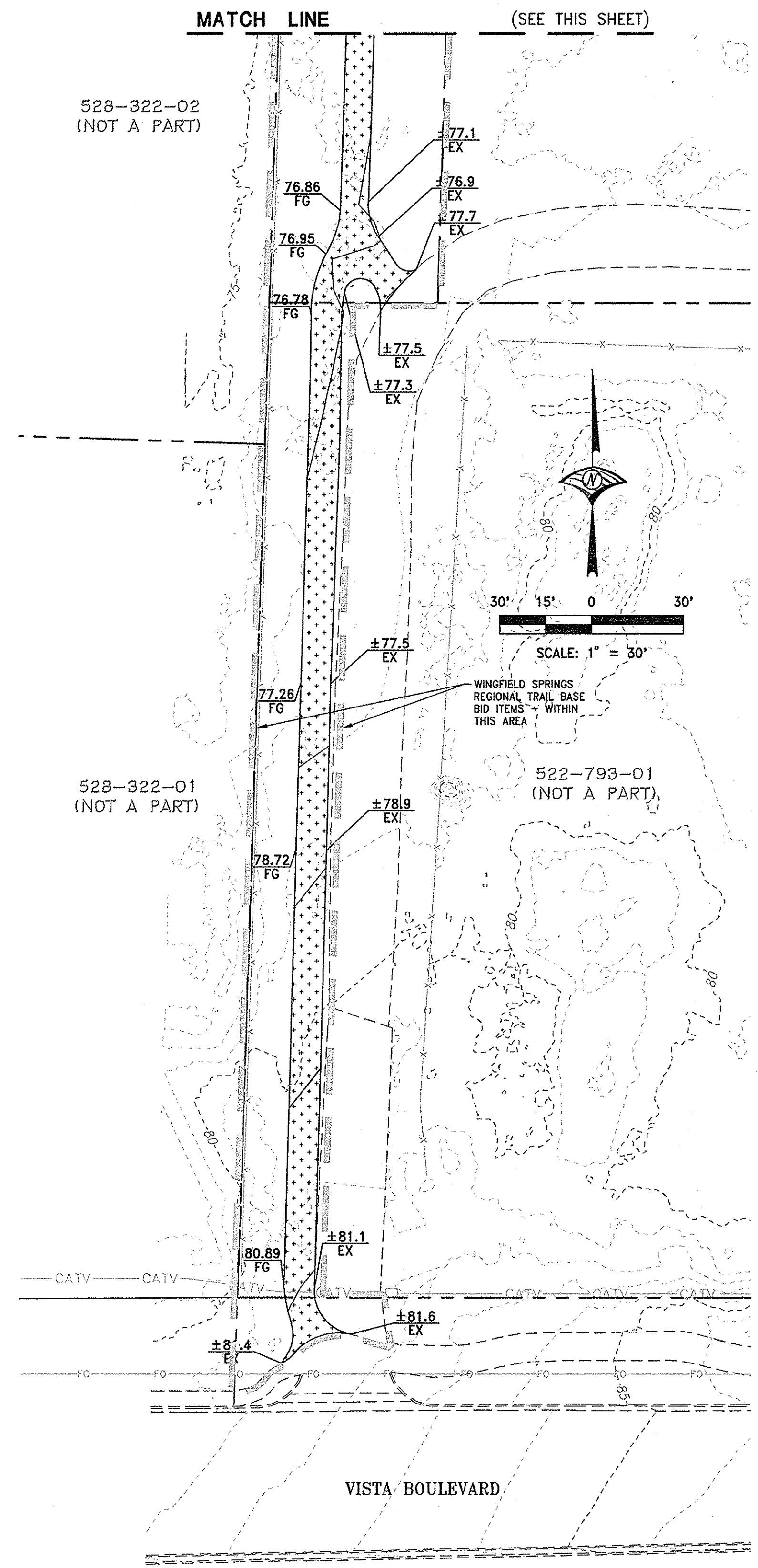
Park Reference Plan
SILVERTON SHORES PARK
City of Sparks, Parks Department
Washoe Co.
Sparks

No.	Revision Date

LA No: 251-204-05-16
Designed: DD
Drawn: GSS
Checked: RPH
Date: 6/20/17

GRADING NOTES:

1. CONTRACTOR TO USE EXTREME CAUTION WHEN WORKING AROUND EXISTING UNDERGROUND UTILITIES.
2. EXISTING UTILITY TIE-IN INFORMATION HAS BEEN OBTAINED FROM BOTH RECORD DRAWINGS AND FIELD SURVEY WHERE EXISTING IMPROVEMENTS COULD BE LOCATED. CONTRACTOR TO VERIFY ACCURACY OF INFORMATION PRIOR TO CONSTRUCTION AND TO NOTIFY ENGINEER OF ANY DISCREPANCIES FOUND BEFORE COMMENCING WORK.
3. CONTRACTOR TO GRADE LS AREAS TO DRAIN TO LS INLETS, CURB CUTS, OR ACROSS SIDEWALKS, AWAY FROM BUILDINGS.
4. ALL STORM DRAIN IMPROVEMENTS ARE PUBLIC UNLESS NOTED OTHERWISE.
5. ADD 4400 TO ALL ELEVATIONS.



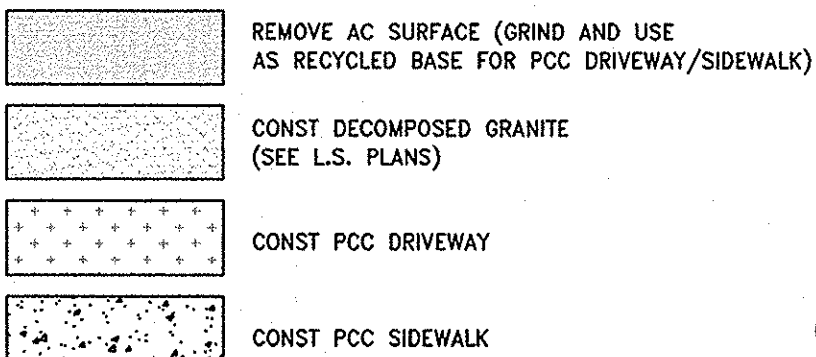
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DATE: JUNE 2017	SCALE: 1" = 30'	DRAWN BY: DAB	DESIGNED BY: SJH	CHECKED BY: MAD
WOOD RODGERS BUILDING RELATIONSHIPS ONE PROJECT AT A TIME 1981 Corporate Blvd Reno, NV 89602 Tel 776.823.4068 Fax 776.823.4066				
SILVERTON SHORES PARK CITY OF SPARKS, PARKS DEPARTMENT SPARKS, WASHOE COUNTY, NEVADA				
IMPROVEMENT PLANS FOR GRADING PLAN				
PROJECT NO. 8523.014				
DRAWING G-1				
SHT 3 OF 14				

NOTES:

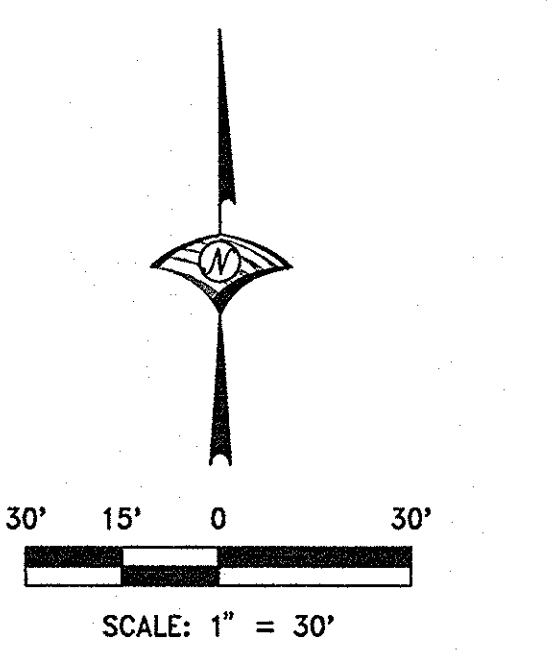
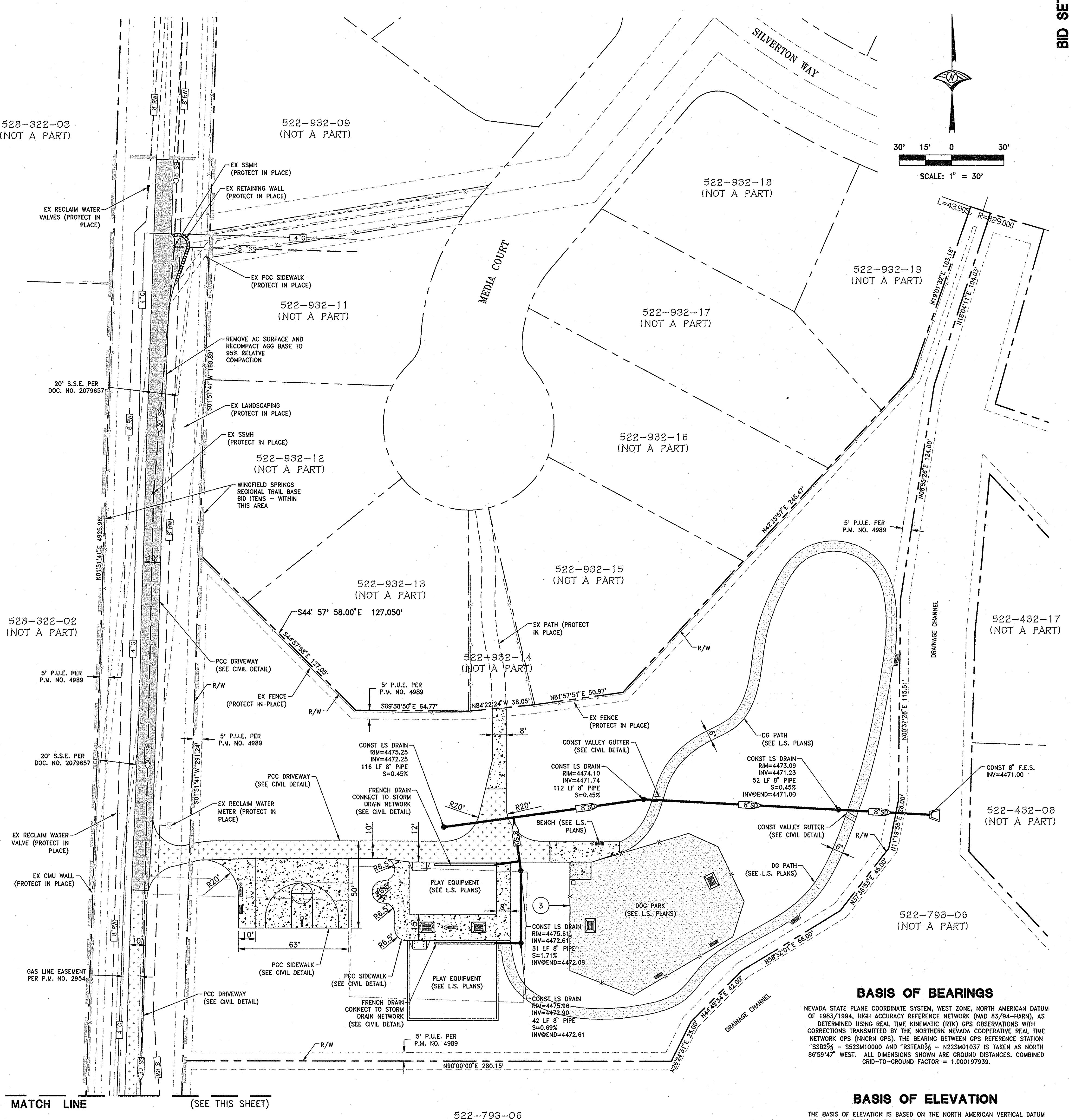
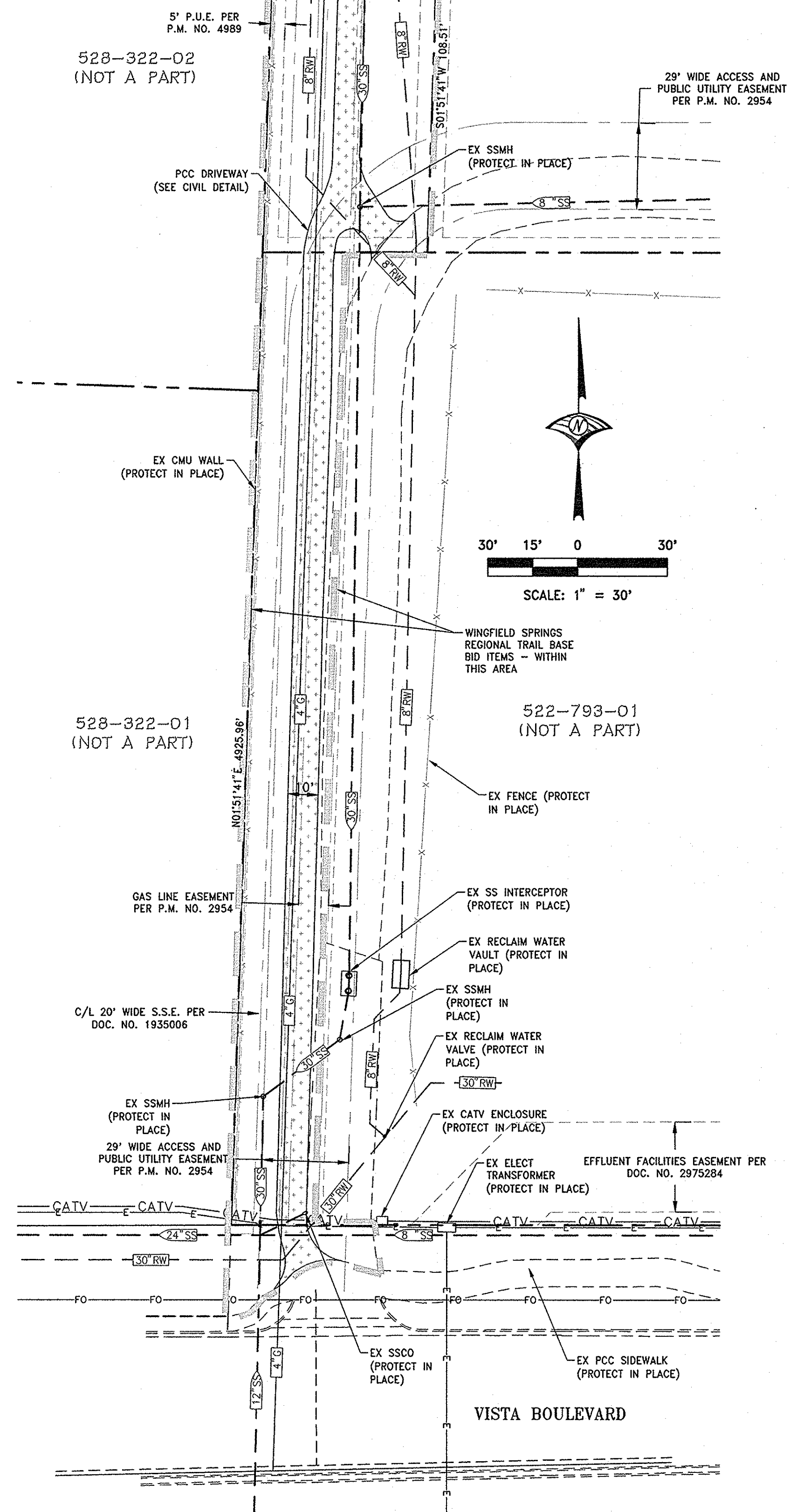
1. SEE LANDSCAPE PLANS FOR DETAILED DESIGN AMENITIES.
2. ALL STREETS ARE PUBLIC UNLESS NOTED OTHERWISE.
3. ALL STORM DRAIN IS PUBLIC (SPARKS) UNLESS NOTED OTHERWISE.
4. ALL SANITARY SEWER IS PUBLIC (SPARKS) UNLESS NOTED OTHERWISE.
5. ALL WATER IS PUBLIC (JURISDICTION) UNLESS NOTED OTHERWISE.
6. ALL RECLAIM WATER IS PUBLIC (SPARKS) UNLESS NOTED OTHERWISE.
7. REMOVAL LIMITS OF COMPOSITE SURFACE ARE SCHEMATIC AND WILL NEED TO BE COORDINATED PRIOR TO CONSTRUCTION.

LEGEND



MATCH LINE

(SEE THIS SHEET)



BASIS OF BEARINGS

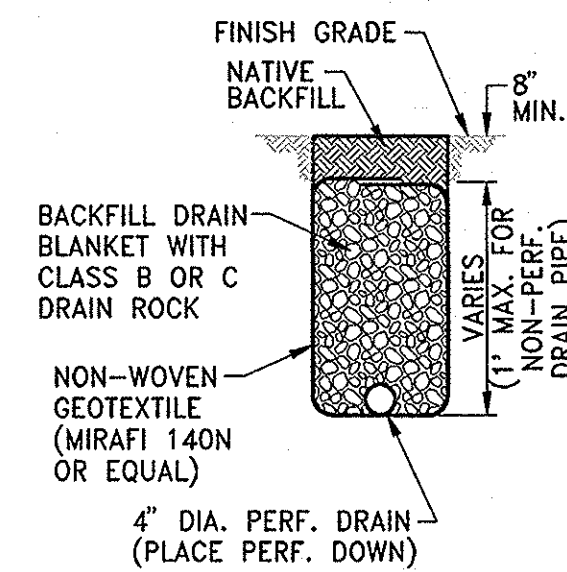
NEVADA STATE PLANE COORDINATE SYSTEM, WEST ZONE, NORTH AMERICAN DATUM OF 1983/1994, HIGH ACCURACY REFERENCE NETWORK (NAD 83/94-HARN), AS DETERMINED USING REAL TIME KINEMATIC (RTK) GPS OBSERVATIONS WITH CORRECTIONS TRANSMITTED BY THE NORTHERN NEVADA COOPERATIVE REAL TIME NETWORK GPS (NNCRN GPS). THE BEARING BETWEEN GPS REFERENCE STATION "SS25% - S52SM10000 AND "RSTEAD% - N22SM101037 IS TAKEN AS NORTH 86°59'47" WEST. ALL DIMENSIONS SHOWN ARE GROUND DISTANCES. COMBINED GRID-TO-GROUND FACTOR = 1.000197939.

BASIS OF ELEVATION

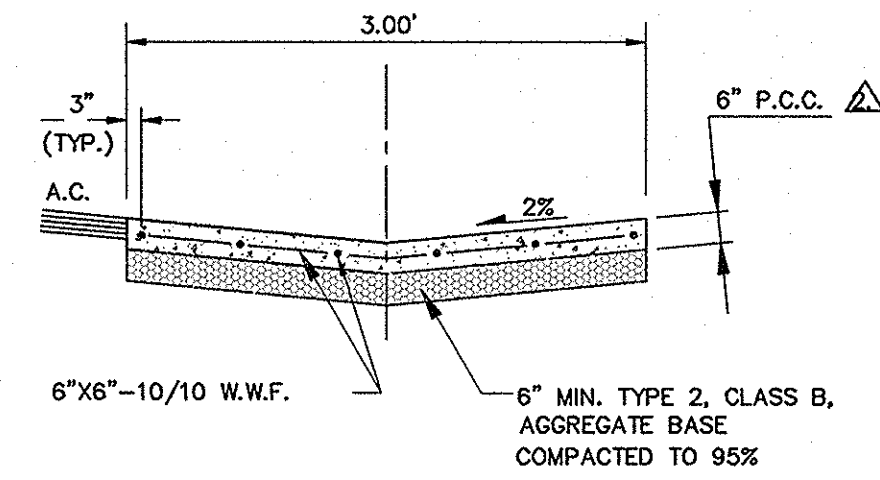
THE BASIS OF ELEVATION IS BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) AS TAKEN FROM CITY OF SPARKS BENCHMARK 110, WITH A PUBLISHED ELEVATION OF 4509.99 FT. BENCHMARK 110 IS DESCRIBED AS BEING A DRIVE RIVET AND 2-INCH WASHER IN THE TOP OF THE CURB, 2 FEET NORTH OF THE NORTH CURB RETURN OF THE NORTHEAST CORNER OF NORTH WINGFIELD PARKWAY AND VISTA BOULEVARD ON NORTH WINGFIELD PARKWAY.

BID SET

DATE: JUNE 2017	SCALE: 1"=30'	DRAWN BY: DAB	DESIGNED BY: SJH	CHECKED BY: MAD
IMPROVEMENT PLANS FOR		SILVERTON SHORES PARK DEPARTMENT		
CITY OF SPARKS,		SITE PLAN		
SPARKS, NEVADA		WASHOE COUNTY		
PROJECT NO.	8523.014			
DRAWING	S-1			
SHT 4 OF 14				

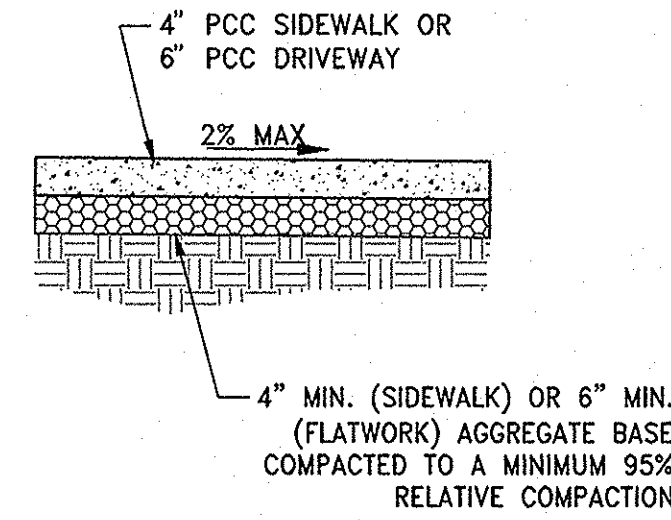


FRENCH DRAIN
NOT TO SCALE



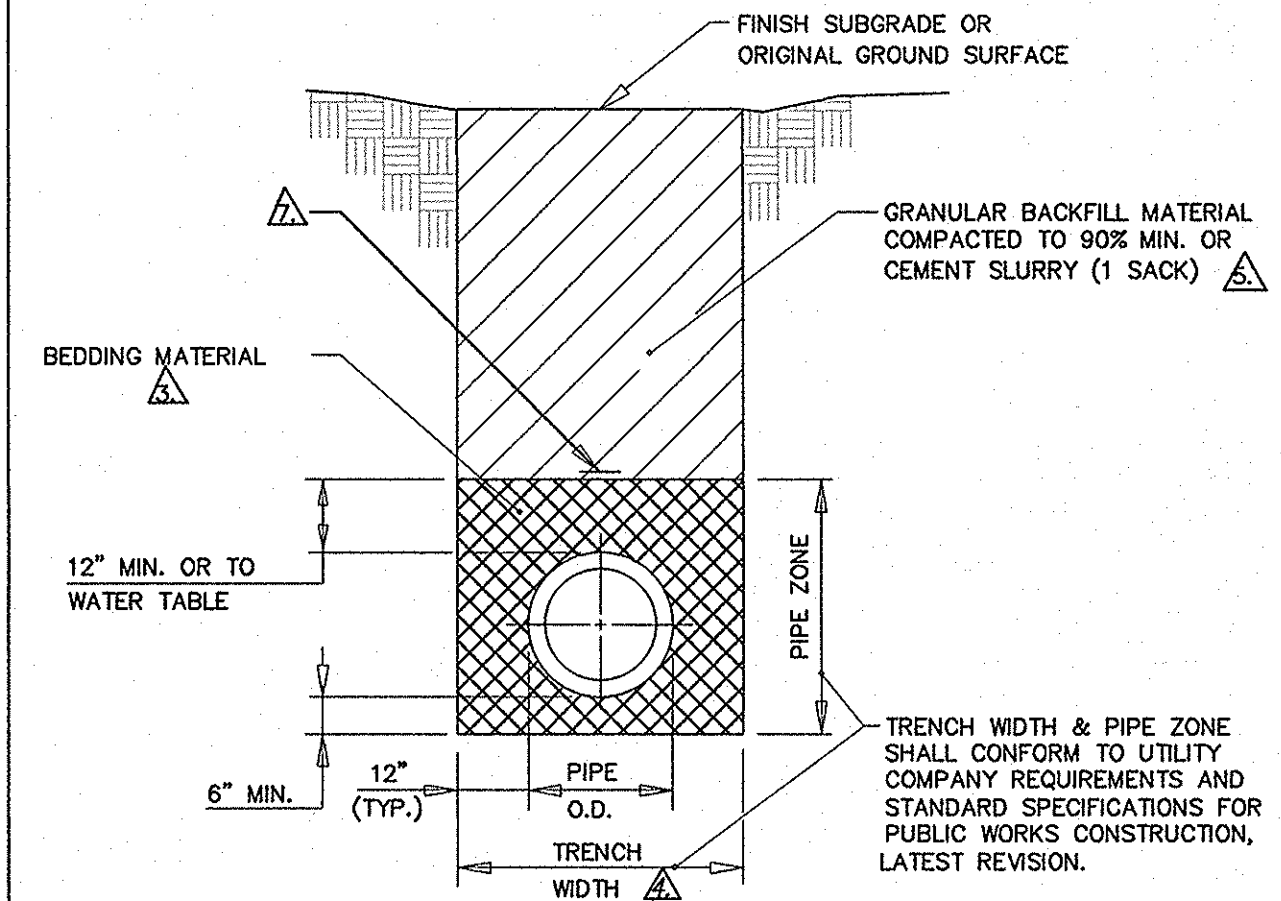
- NOTES:**
- THIS GUTTER DESIGN IS NOT FOR USE ON CITY STREETS, FOR PRIVATE USE ONLY.
 - FIBER-REINFORCED PORTLAND CEMENT CONCRETE (P.C.C.) SHALL HAVE THE FOLLOWING CHARACTERISTICS: 4000 PSI MIN. COMPRESSIVE STRENGTH @ 28 DAYS, MIN. 6 SACKS OF CEMENT PER CUBIC YARD WITH A MAX. WATER/CEMENT RATIO OF 0.45, AIR ENTRAINMENT 6% \pm 1.5%, SLUMP AT 1 TO 4 INCHES. ALL MATERIALS SHALL CONFORM TO SSPWC SECTION 202. POLYPROPYLENE FIBERS SHALL BE ADDED TO THE P.C.C. PER THE MANUFACTURER'S RECOMMENDATIONS.
 - LONGITUDINAL VALLEY GUTTER SHALL HAVE EXPANSION JOINTS EVERY 30 FEET AND WEAKENED PLANE JOINTS EVERY 10 FEET.
 - FOR INDUSTRIAL AREAS, AN ENGINEERED DESIGN IS REQUIRED.
 - AGGREGATE BASE SHALL BE ENGINEERED TYPE 2, CLASS B, COMPACTED TO A MINIMUM OF 95%.

NO.	REVISION	DATE	STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION	SECTION
LONGITUDINAL P.C.C. VALLEY GUTTER				
			DRAWING NO. R-108 (312)	
APPROVED BY: S.V. 08/00			DATE 08/00	PAGE 126



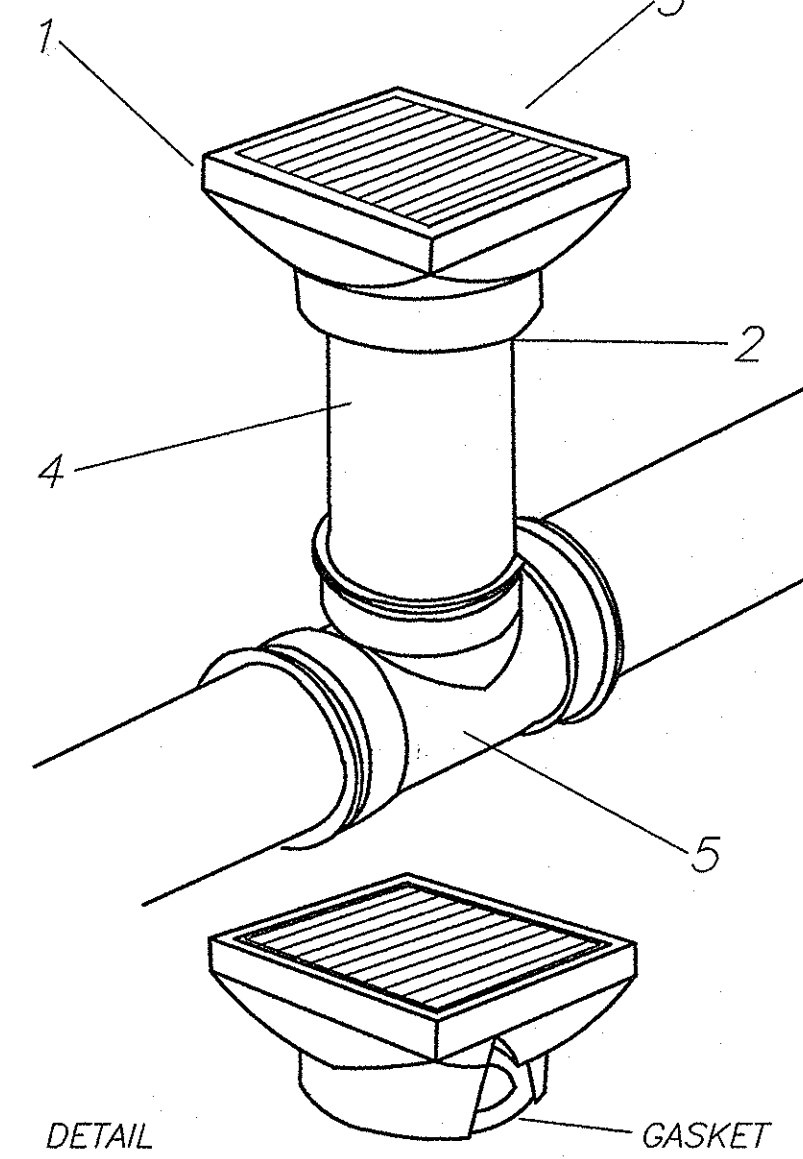
- NOTES:**
- FIBER-REINFORCED PORTLAND CEMENT CONCRETE (P.C.C.) SHALL HAVE THE FOLLOWING CHARACTERISTICS: 4000 PSI MIN. COMPRESSIVE STRENGTH AT 28 DAYS, MIN. 6 SACKS OF CEMENT PER CUBIC YARD WITH MAX. WATER-CEMENT RATIO OF 0.45, AIR ENTRAINMENT 6% \pm 1.5%, SLUMP AT 1 TO 4 INCHES. MIX DESIGN SHALL CONFORM TO THE REQUIREMENTS OF SECTION 337 OF STANDARD SPECIFICATIONS OF PUBLIC WORKS CONSTRUCTION (SSPWC). CEMENT SHALL BE TYPE II. ALL CEMENT CONCRETE SHALL HAVE A COARSE AGGREGATE GRADATION CONFORMING TO SIZE No. 67. POLYPROPYLENE OR CELLULOSE FIBERS SHALL BE ADDED TO THE P.C.C. AT 1.5 LBS. PER CUBIC YARD. ALL MATERIALS SHALL CONFORM TO SSPWC.
 - AGGREGATE BASE MATERIAL UNDER DRIVEWAYS AND SIDEWALKS SHALL BE TYPE 2, CLASS B CRUSHED-AGGREGATE BASE. ALL MATERIALS SHALL CONFORM TO SSPWC SECTION 200.
 - P.C.C. DRIVEWAYS** TO HAVE #4 BARS AT 18" ON CENTER LONGITUDINALLY & TRANSVERSE. MINIMUM 2" CONCRETE COVER FOR ALL REINFORCING BARS.
 - ALL ADJACENT CONCRETE REMOVAL SHALL BE TO NEAT SAW CUT LINES AT RIGHT ANGLES. DOWEL INTO EXISTING ADJACENT CONCRETE DRIVEWAY OR SIDEWALK WITH (2) No. 4 REINFORCEMENT BARS EQUALLY SPACED ACROSS WIDTH "W". DOWELS SHALL PENETRATE A MINIMUM OF 4" INTO EXISTING CONCRETE.
 - WEAKENED PLANE JOINTS SHALL BE CONSTRUCTED AT 5 FT INTERVALS AND IN ACCORDANCE WITH SECTION 312 OF THE SSPWC.

PCC DRIVEWAY/SIDEWALK
NOT TO SCALE



- NOTES:**
- A PERMIT MUST BE OBTAINED FROM THE CITY ENGINEER PRIOR TO CUTTING ANY PUBLIC RIGHT-OF-WAY. 24 HOURS PRIOR TO TRENCH EXCAVATION, THE PERMITTEE MUST NOTIFY THE CITY EXCAVATION PERMIT INSPECTOR OR APPLICABLE ENGINEER OF RECORD. SEE RELATED STANDARD DETAIL DRAWING NOS. R-103 (141), R-204 (306), R-119 (312), R-120 (305,320) AND R-121 (305,320).
 - ALL MATERIALS AND INSTALLATION PROCEDURES SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, LATEST REVISION. BEDDING MATERIAL SHALL CONFORM TO OWNING-UTILITY COMPANY REQUIREMENTS AS APPROVED BY THE CITY OF RENO. FOR CITY-OWNED UTILITIES, BEDDING MATERIAL SHALL BE CLASS "A", "B", OR "C", COMPACTED TO 90% MINIMUM. FOR TRAFFIC/ELECTRICAL CONDUIT TRENCHES LESS THAN 12" IN WIDTH, INCLUDING VERMIER TRENCHES, BEDDING SHALL BE CLASS "A" MATERIAL. BACKFILL SHALL BE CEMENT SLURRY (ONE SACK). CEMENT SLURRY BEDDING/BACKFILL MAY BE USED AS AN ALTERNATE TO CLASS "A", "B" OR "C" MATERIAL WITH WRITTEN APPROVAL FROM THE CITY ENGINEER FOR EACH SPECIFIC APPLICATION.
 - ALL EXCAVATIONS SHALL CONFORM TO THE LATEST O.S.H.A. REQUIREMENTS. SHORING OR SLOPED CUT MAY BE NECESSARY, BUT THERE WILL BE NO PAYMENT FOR ADDITIONAL EXCAVATION, BEDDING, BACKFILL, OR SHORING.
 - SEE STANDARD DETAIL DRAWING NOS. R-123A (305), R-123B (305) AND R-123C (305) FOR TRENCH SLURRY BACKFILL SPECIFICATIONS.
 - EDGE OF 4" ROCK WHEEL TRENCHES FOR CONDUIT SHALL BE LOCATED A MINIMUM OF 9" FROM GUTTER LIP.
 - PIPE TAPE IDENTIFICATION OF UTILITY SHALL BE INSTALLED.

NO.	REVISION	DATE	STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION	SECTION
TRENCH EXCAVATION / BACKFILL				
			DRAWING NO.	
APPROVED BY: S.V. 08/00			DATE 08/00	PAGE 26



FEATURES

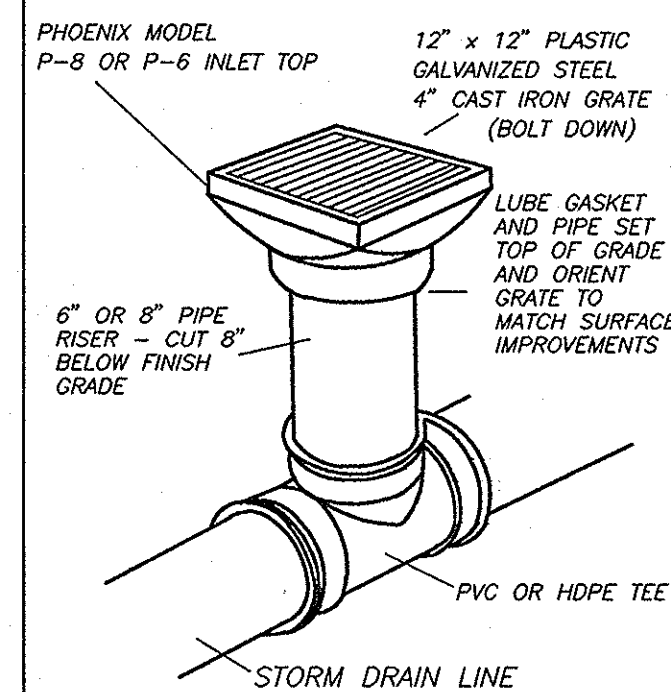
- Durable and light weight precast concrete top allows for grating to be precisely aligned with surface improvements.
 - Gasketed joint offers light connection with plastic riser. Also allows movement for any future adjustments.
 - Available with plastic, galvanized steel, or cast iron grating with bolt down latches for security.
 - Field cut plastic pipe riser allows maximum flexibility in grade adjustment (4", 6", or 8" Diam).
 - Easily installed plastic tee or wye eliminates need for poured concrete base.
- P-6 = 6" RISER
P-8 = 8" RISER

INLET NOTES:

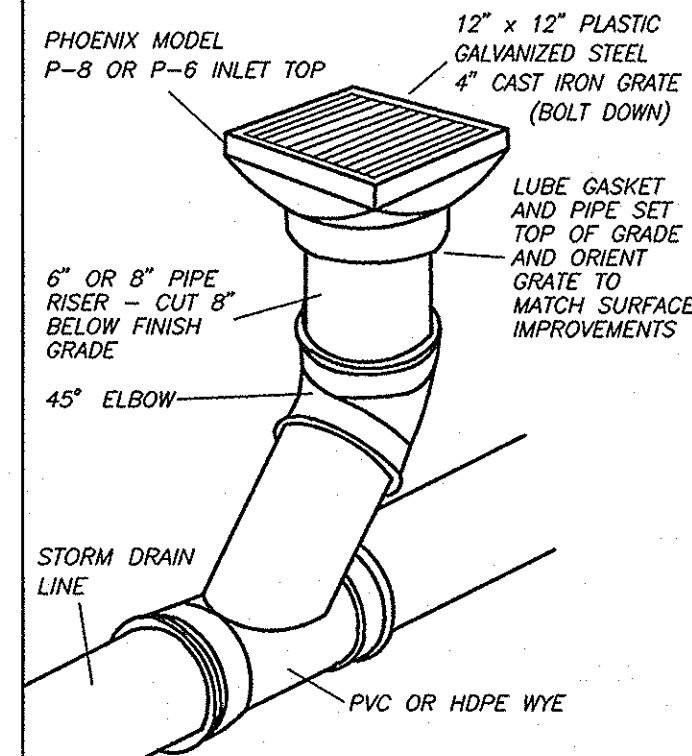
- P6 AND P8 REFERS TO THE SIZE OF THE RISER TUBE. P6 EQUALS 6" RISER AND P8 EQUALS 8" RISER.
- ALL GRATES ARE 12" X 12". EITHER PLASTIC, GALVANIZED STEEL OR CAST IRON. GRATES SHALL BE BOLT DOWN TYPES.
- MANUFACTURER BY PHOENIX OR EQUAL.
- INSTALLATION SHALL BE BY ONE OF THE ABOVE METHODS.

YARD DRAIN
NOT TO SCALE

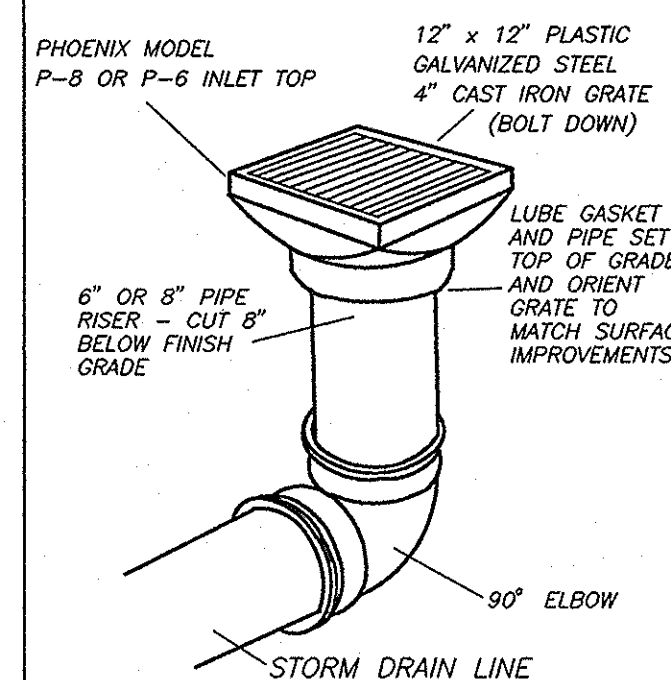
TEE INSTALLATION



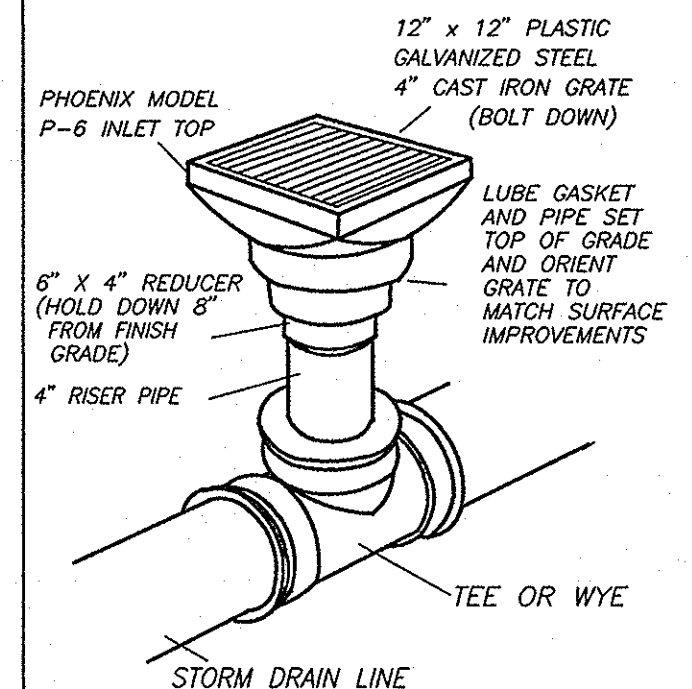
WYE INSTALLATION



END OF LINE INSTALLATION



4" RISER INSTALLATION



BID SET

DATE: JUNE 2017
SCALE: AS SHOWN
DRAWN BY: DAB
DESIGNED BY: STH
CHECKED BY: MAD

NO. _____

DESCRIPTION _____

ENGR. NO. _____

DATE _____

WOOD RODGERS
BUILDING RELATIONSHIPS ONE PROJECT AT A TIME
1981 Corporate Blvd
Reno, NV 89602
Tel 776.853.4068
Fax 776.853.4068

IMPROVEMENT PLANS FOR
SILVERTON SHORES PARK
CITY OF SPARKS, PARKS DEPARTMENT

SPARKS, WASHOE COUNTY, NEVADA

CIVIL DETAIL SHEET

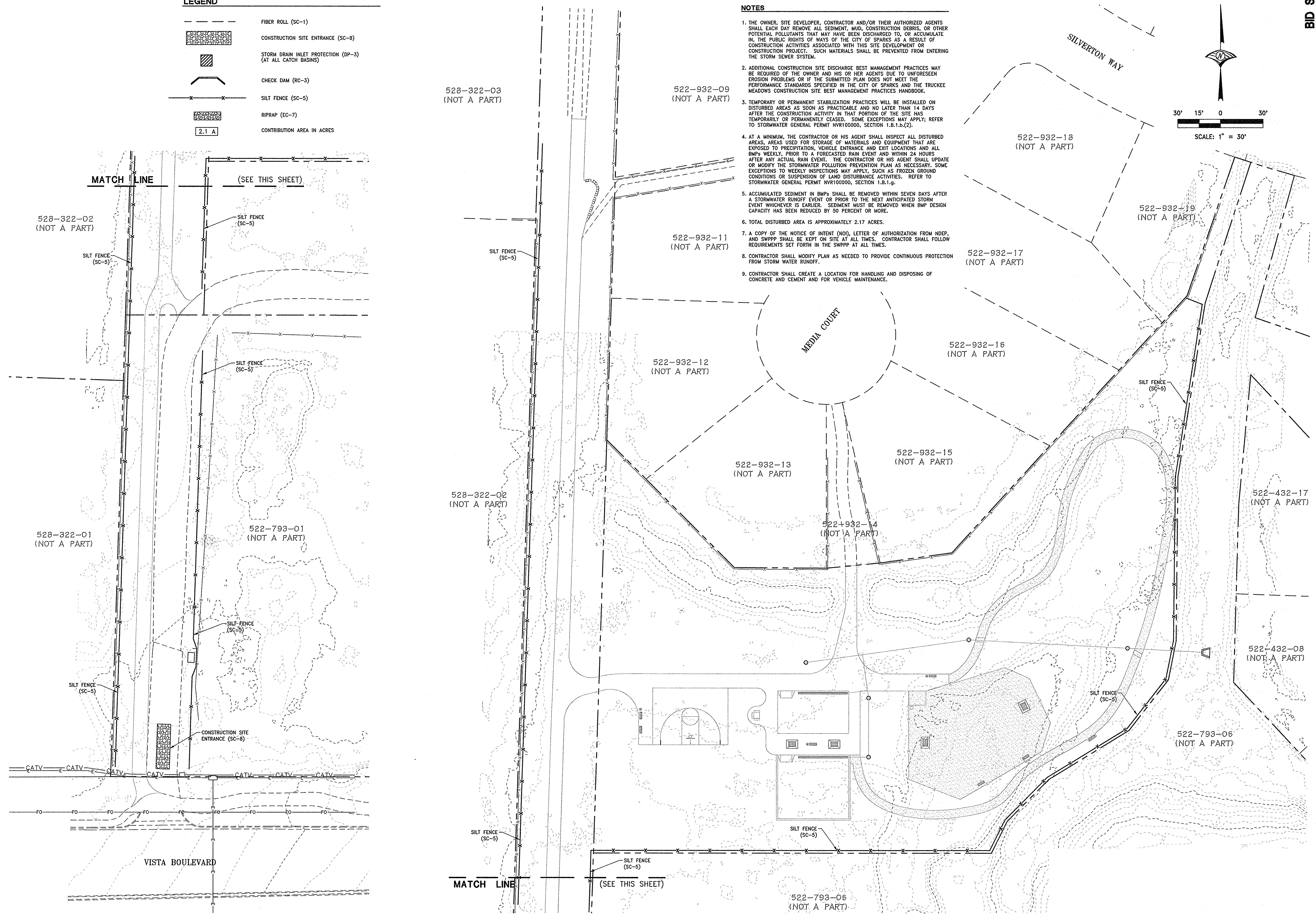
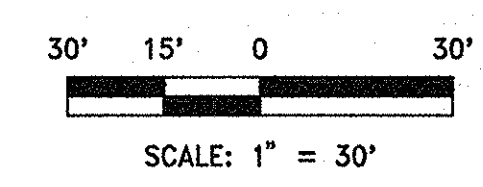
PROJECT NO. 8523.014
DRAWING D-1
SHT 5 OF 14

LEGEND

- FIBER ROLL (SC-1)
- [Pattern] CONSTRUCTION SITE ENTRANCE (SC-8)
- [Pattern] STORM DRAIN INLET PROTECTION (DP-3)
(AT ALL CATCH BASINS)
- [Symbol] CHECK DAM (RC-3)
- x-x- SILT FENCE (SC-5)
- [Pattern] RIPRAP (EC-7)
- 2.1 A CONTRIBUTION AREA IN ACRES

NOTES

1. THE OWNER, SITE DEVELOPER, CONTRACTOR AND/OR THEIR AUTHORIZED AGENTS SHALL EACH DAY REMOVE ALL SEDIMENT, MUD, CONSTRUCTION DEBRIS, OR OTHER POTENTIAL POLLUTANTS THAT MAY HAVE BEEN DISCHARGED TO, OR ACCUMULATE IN, THE PUBLIC RIGHTS OF WAYS OF THE CITY OF SPARKS AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS SITE DEVELOPMENT OR CONSTRUCTION PROJECT. SUCH MATERIALS SHALL BE PREVENTED FROM ENTERING THE STORM SEWER SYSTEM.
2. ADDITIONAL CONSTRUCTION SITE DISCHARGE BEST MANAGEMENT PRACTICES MAY BE REQUIRED OF THE OWNER AND HIS OR HER AGENTS DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE SUBMITTED PLAN DOES NOT MEET THE PERFORMANCE STANDARDS SPECIFIED IN THE CITY OF SPARKS AND THE TRUCKEE MEADOWS CONSTRUCTION SITE BEST MANAGEMENT PRACTICES HANDBOOK.
3. TEMPORARY OR PERMANENT STABILIZATION PRACTICES WILL BE INSTALLED ON DISTURBED AREAS AS SOON AS PRACTICABLE AND NO LATER THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. SOME EXCEPTIONS MAY APPLY; REFER TO STORMWATER GENERAL PERMIT NVR100000, SECTION 1.8.1.b.(2).
4. AT A MINIMUM, THE CONTRACTOR OR HIS AGENT SHALL INSPECT ALL DISTURBED AREAS, AREAS USED FOR STORAGE OF MATERIALS AND EQUIPMENT THAT ARE EXPOSED TO PRECIPITATION, VEHICLE ENTRANCE AND EXIT LOCATIONS AND ALL BMPs WEEKLY, PRIOR TO A FORECASTED RAIN EVENT AND WITHIN 24 HOURS AFTER ANY ACTUAL RAIN EVENT. THE CONTRACTOR OR HIS AGENT SHALL UPDATE OR MODIFY THE STORMWATER POLLUTION PREVENTION PLAN AS NECESSARY. SOME EXCEPTIONS TO WEEKLY INSPECTIONS MAY APPLY, SUCH AS FROZEN GROUND CONDITIONS OR SUSPENSION OF LAND DISTURBANCE ACTIVITIES. REFER TO STORMWATER GENERAL PERMIT NVR100000, SECTION 1.8.1.g.
5. ACCUMULATED SEDIMENT IN BMPs SHALL BE REMOVED WITHIN SEVEN DAYS AFTER A STORMWATER RUNOFF EVENT OR PRIOR TO THE NEXT ANTICIPATED STORM EVENT WHICHEVER IS EARLIER. SEDIMENT MUST BE REMOVED WHEN BMP DESIGN CAPACITY HAS BEEN REDUCED BY 50 PERCENT OR MORE.
6. TOTAL DISTURBED AREA IS APPROXIMATELY 2.17 ACRES.
7. A COPY OF THE NOTICE OF INTENT (NOI), LETTER OF AUTHORIZATION FROM NDEP, AND SWPPP SHALL BE KEPT ON SITE AT ALL TIMES. CONTRACTOR SHALL FOLLOW REQUIREMENTS SET FORTH IN THE SWPPP AT ALL TIMES.
8. CONTRACTOR SHALL MODIFY PLAN AS NEEDED TO PROVIDE CONTINUOUS PROTECTION FROM STORM WATER RUNOFF.
9. CONTRACTOR SHALL CREATE A LOCATION FOR HANDLING AND DISPOSING OF CONCRETE AND CEMENT AND FOR VEHICLE MAINTENANCE.



BID SET

NO.	DESCRIPTION	DATE	ENGR.	DTE

DATE: JUNE 2017
 SCALE: 1"=30'
 DRAWN BY: DAB
 DESIGNED BY: SJH
 CHECKED BY: MAD

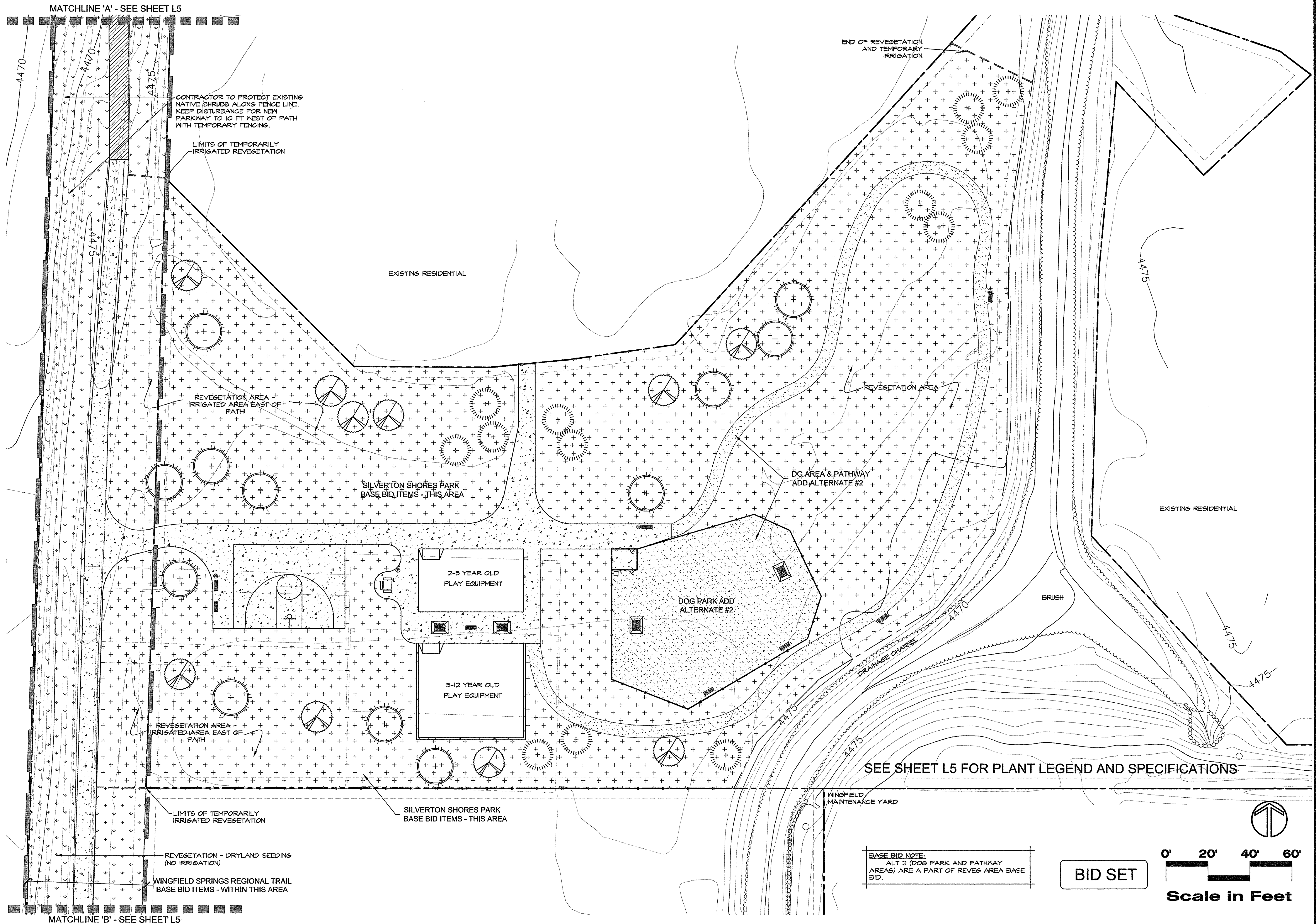
06/26/17

WOOD RODGERS
 BUILDING RELATIONSHIPS ONE PROJECT AT A TIME
 1981 Corporate Blvd
 Reno, NV 89502
 Tel 776.823.4068
 Fax 776.823.4066

IMPROVEMENT PLANS FOR
SILVERTON SHORES PARK
 CITY OF SPARKS, PARKS DEPARTMENT
 SPARKS, WASHOE COUNTY, NEVADA

PROJECT NO. 8523.014
DRAWING E-1
SHT 6 OF 14

A:\Users\8523_CityofSparks\014_Silverton_Shore_Park\014_Silverton_Shore_Park\014_Silverton_Shore_Park.dwg 9/29/2017 4:15 PM Mike Davidson



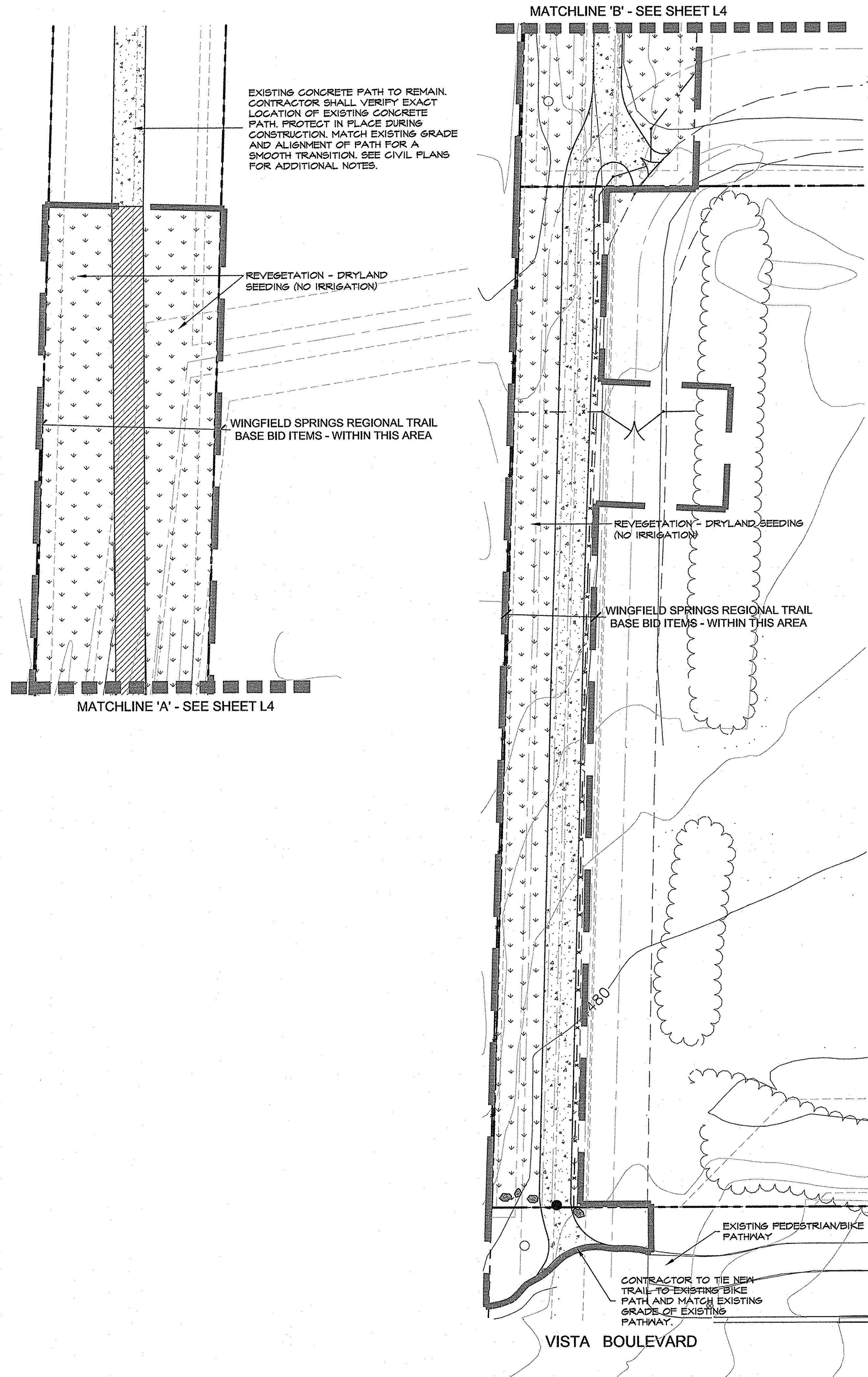
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L.A. Studio Nevada
 the landscape architecture studio
 1552 C Street
 Sparks, NV 89431 (775) 323-2223
 www.la-studionevada.com NV RLA #440

REGISTERED LANDSCAPE ARCHITECT
 DALE A. DOERN
 141
 State of Nevada
 Expires 12/31/17

Landscape Plan
SILVERTON SHORES PARK
 City of Sparks, Parks Department
 Washoe Co.

No.	Revision Date



PLANT LIST

SYM.	QNT.	BOTANICAL NAME/Common Name	MIN. SIZE
EVERGREEN TREES			
[Symbol]	12	CALOGEDRUS DECURRENS/INCENSE CEDAR	8' MIN. HT.
[Symbol]	18	PINUS JEFFREYII/JEFFREY PINE	8' MIN. HT.
[Symbol]	10	PINUS PONDEROSA/PONDEROSA PINE	8' MIN. HT.

REVEGETATION SEED BLEND

DRYLAND NON-IRRIGATED SEEDING - INSTALL PER SPECIFICATIONS.

TEMPORARY IRRIGATED SEEDING - INSTALL PER SPECIFICATIONS.

SPECIES	PLS #/ACRE
GRASSES	
WHEATGRASS STREAMBANK	SODAR 4.00
BLUEGRASS SANDBERG	VNS 3.00
WILDRYE GREAT BASIN	VNS 2.00
FESCUE SHEEP	COVAR 3.00
INDIAN RICEGRASS	VNS 5.00
SHRUBS	
SAGEBRUSH WYOMING	.50
RABBITBRUSH RUBBER	.50
SALTBUSH FOURRING	2.00
MORMON TEA GREEN	.50
BITTERBRUSH	1.00
SPINY HOPSAE	.50
DESERT PEACH	1.00
FLOWERS	
DRYLAND AGGRESSIVE BLEND	2.00
NURSE CROP	
RYEGRASS ANNUAL	VNS 6.00
TOTAL PLS #/ACRE:	
	31.00

SEED AVAILABLE FROM:
 COMSTOCK SEED
 917 HIGHWAY 88
 GARDNERVILLE, NV. 89410
 775-265-0090

SEEDING SPECIFICATIONS

- STRIP AND STOCKPILE EXISTING 6" OF NATIVE TOPSOIL. PROVIDE DUST CONTROL FOR STOCKPILED TOPSOIL AS REQUIRED BY REGULATORY AGENCIES.
- FOLLOWING COMPLETION OF ROUGH GRADING, RE-APPLY A MINIMUM OF 4" OF STOCKPILED TOPSOIL TO REVEGETATION AREAS. SCARIFY TOPSOIL AS NEEDED TO CREATE FRIABLE CONDITIONS.
- INSTALL NATIVE SHRUB PLUGS OR SUPER CELLS AT DENSITIES SPECIFIED BELOW IN #8.
- HYDROSEED THE PREPARED SLOPES WITH A SLURRY MIX CONSISTING OF THE FOLLOWING:
 FERTILIZER: 0-10-10 @ 200 LBS PER ACRE
 TACKIFIER: PLAS-TEX SOIL STABILIZER (OAE) @ 2 TONS PER ACRE
 MULCH: 70% FIBER/30% PAPER MULCH BLEND @ 1 TON PER ACRE
 REVEGETATION SEED BLEND AT 31 LBS PER ACRE
- PROVIDE MINIMUM OF 50% IRRIGATION COVERAGE TO ALL REVEGETATED AREAS UNTIL REVEGETATION IS ESTABLISHED TO A MINIMUM OF 80% GROUND COVERAGE (A MINIMUM OF ONE FULL GROWING SEASON). ALL IRRIGATION SHALL REMAIN IN PLACE AND IN GOOD OPERATING CONDITION UNTIL RECEIPT OF FINAL WRITTEN APPROVAL OF THE AREAS FROM THE REVIEW AGENCY.
- ALL TEMPORARY IRRIGATION WILL BE OPERATED BY AUTOMATIC ELECTRIC CONTROL VALVES AND WIRED TO THE CONTROLLER.
- SET IRRIGATION SCHEDULE AS NEEDED TO MAINTAIN MOIST SOIL SURFACE CONDITIONS DURING GERMINATION AND ESTABLISHMENT. THE WATERING SCHEDULE SHALL INCLUDE SHORT, FREQUENT WATERING CYCLES CONDUCIVE TO CREATING A MOIST SOIL SURFACE WHILE MINIMIZING ANY SURFACE RUNOFF OR RILLS.
- REPAIR ANY SURFACE EROSION/RILLS UPON DISCOVERY.

SHRUB PLUGS SPECIES:

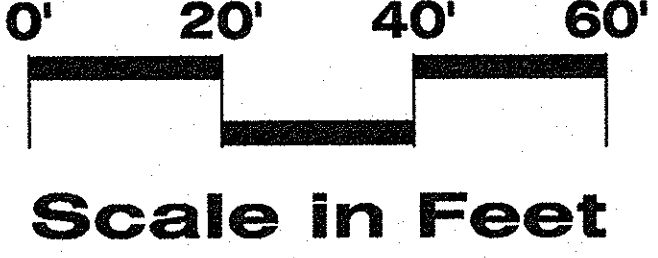
SPECIES	PLUGS/ACRE
A. WYOMING BIG SAGEBRUSH	50/ACRE
B. FOURRING SALTBUSH	25/ACRE
C. ANTELOPE BITTERBRUSH	25/ACRE
D. RABBIT BRUSH	50/ACRE
E. SPINY HOPSAE	25/ACRE
TOTAL PLUGS/ACRE	
	175

SCATTER PLUGS THROUGHOUT THE SEEDING AREA WHEN PLANTING.

LANDSCAPE SPECIFICATIONS

- GENERAL
- PLAN IS DIAGRAMMATIC ONLY. ALL LOCAL GOVERNING CODES SHALL BE MET. EXACT LOCATION OF TREES AND SHRUBS SHALL BE DETERMINED IN THE FIELD (NOTALL AS PER DETAILS) AND APPROVED BY THE OWNER'S REPRESENTATIVE.
 - A MINIMUM OF TWO WORKING DAYS BEFORE PERFORMING ANY DIGGING, CALL UNDERGROUND SERVICE ALERT FOR INFORMATION ON THE LOCATION OF NATURAL GAS LINES, ELECTRIC CABLES, TELEPHONE CABLES, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATION AND PROTECTION OF ALL UTILITIES, AND REPAIR OF ANY DAMAGE RESULTING FROM HIS WORK AT NO ADDITIONAL COST TO THE OWNER.
 - DAMAGES: CONTRACTOR SHALL PROMPTLY REPAIR ALL DAMAGES TO EXISTING SITE AT NO COST TO OWNER.
 - CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES (IE, PAVING, PLUMBING, ELECTRICAL, ETC.)
 - THE CONTRACTOR SHALL BE RESPONSIBLE TO FIELD VERIFY SITE CONDITIONS PRIOR TO CONSTRUCTION AND TO NOTIFY THE OWNER'S REPRESENTATIVE SHOULD CONDITIONS EXIST WHICH PREVENT CONSTRUCTION AS PER THESE PLANS. COMMENCEMENT OF WORK SHALL CONSTITUTE ACCEPTANCE OF CONDITIONS AND RESPONSIBILITY FOR CORRECTIONS.
 - CONTRACTOR AGREES THAT, IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONTRACTOR ASSUMES SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND SHALL NOT BE LIMITED TO NORMAL WORKING HOURS AND CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD HARMLESS THE OWNER FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THE PROJECT.
- PLANTING
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR FINISH GRADING THROUGHOUT ALL LANDSCAPE AREAS SUCH THAT THERE ARE NO HUMPS OR DEPRESSIONS AND POSITIVE DRAINAGE OCCURS THROUGHOUT.
 - THE CONTRACTOR SHALL PROVIDE SOIL TEST RESULTS FOR EXISTING SITE SOIL INCLUDING: TEXTURE CLASSIFICATION, PH, NITROGEN, PHOSPHORUS, POTASSIUM, SULFUR, SALINITY HAZARD, AND FERTILIZATION RECOMMENDATION FOR THE INTENDED USE. CONTRACTOR SHALL FOLLOW RECOMMENDATIONS OF SOIL TEST.
 - INSTALL ALL PLANT MATERIALS AS PER DETAILS AND SOIL AND PLANT LAB REPORT. INFORMATION IN SOILS AND PLANT LAB REPORT SHALL PREVAIL OVER NOTES AND DETAILS.
 - SOIL AMENDMENT SHALL BE HUMUS COMPOSED OF TOPSOIL, BARK HUMUS, AND COMPOST. SUBMIT TO OWNER'S REPRESENTATIVE FOR APPROVAL.
 - CONTRACTOR IS RESPONSIBLE FOR PROVIDING PLANT MATERIAL PER SYMBOLS AND SPACINGS INDICATED ON PLAN. SYMBOLS PREVAIL OVER NUMBERS ON PLANT LIST. NO SUBSTITUTIONS WILL BE ACCEPTED WITHOUT EXPRESSED WRITTEN CONSENT OF THE OWNER'S REPRESENTATIVE. SEE SUBMITTALS.
 - ALL PLANTS NOT MEETING OR EXCEEDING REQUIREMENTS AND RECOMMENDATIONS OF THE LATEST EDITION OF THE ANSI Z601 'AMERICAN STANDARD FOR NURSERY STOCK' BY THE AMERICAN ASSOCIATION OF NURSERMEN SHALL BE REJECTED. CONTRACTOR SHALL RECEIVE ON-SITE APPROVAL OF PLANT MATERIAL BY OWNER'S REPRESENTATIVE PRIOR TO PLANTING. FAILURE TO RECEIVE APPROVAL MAY RESULT IN REJECTION OF PLANT MATERIAL FOLLOWING INSTALLATION. THE OWNER'S REPRESENTATIVE RESERVES THE RIGHT TO INSPECT AND EVALUATE PLANT MATERIAL THROUGHOUT THE CONSTRUCTION AND MAINTENANCE PERIOD.
 - ALL PLANTING BEDS SHALL RECEIVE TOP-DRESSING OF MULCH AS FOLLOWS:
 - DECOMPOSED GRANITE (DG) - INSTALL FOUR-INCH DEPTH OF 1/4" COARSE OXBORROW DG (OAE) - DO NOT INSTALL WEED FABRIC UNDER DECOMPOSED GRANITE MULCH.
 - DRAINAGE SWALES - INSTALL FOUR-INCH DEPTH MINIMUM OF 1/2-INCH/MINUS RIVER ROCK INSTALLED OVER LANDSCAPE FABRIC.
 - GRANULAR PRE-EMERGENT - FOLLOWING MULCH PLACEMENT, APPLY GRANULAR PRE-EMERGENT TO ALL DECOMPOSED GRANITE AREAS AND WATER IN BEFORE ROLLING.
- EDGE DRAINS/SITE DRAINAGE
- PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL OBTAIN A COPY OF THE PROJECT GEOTECHNICAL REPORT. CONTRACTOR WILL INCORPORATE ALL SITE DRAINAGE AND PLANT PLACEMENT RECOMMENDATIONS PER THAT REPORT.
- INSPECTIONS/APPROVALS/SUBMITTALS
- CONTRACTOR IS RESPONSIBLE FOR NOTIFYING OWNER'S REPRESENTATIVE, A MINIMUM OF 48 HOURS IN ADVANCE, FOR THE FOLLOWING SITE OBSERVATIONS AND/OR MEETINGS:
 - A. PRECONSTRUCTION MEETING WITH ALL PARTIES
 - B. PLANT MATERIAL ON SITE, PRIOR TO INSTALLATION
 - C. FINAL PROJECT WALK-THROUGH
 - D. ADDITIONAL SITE OBSERVATIONS AS DEEMED NECESSARY BY THE OWNER'S REPRESENTATIVE AND/OR CONTRACTOR.
 - SUBMIT AMENDMENT AND MULCH SAMPLES TO OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO INSTALLATION. FAILURE TO COMPLY MAY RESULT IN REJECTION OF MULCH OR AMENDMENT PRIOR TO OR FOLLOWING INSTALLATION.
 - IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE AND PROVIDE PLANT MATERIAL AS SPECIFIED ON THIS PLAN. THE CONTRACTOR MAY SUBMIT A REQUEST TO PROVIDE SUBSTITUTIONS FOR THE SPECIFIED PLANT MATERIAL UNDER THE FOLLOWING CONDITIONS:
 - A. ANY SUBSTITUTIONS PROPOSED SHALL BE SUBMITTED TO THE PROJECT OWNER'S REPRESENTATIVE WITHIN TWO WEEKS OF THE AWARD OF CONTRACT. SUBSTITUTIONS MUST MEET EQUIVALENT DESIGN AND FUNCTIONAL GOALS OF THE ORIGINAL MATERIALS AS DETERMINED BY THE OWNER'S REPRESENTATIVE. ANY CHANGES MUST HAVE THE APPROVAL OF THE OWNER'S REPRESENTATIVE.
 - B. THE REQUEST WILL BE ACCOMPANIED BY AT LEAST THREE NOTICES FROM PLANT MATERIAL SUPPLIERS THAT THE PLANT MATERIAL SPECIFIED IS NOT AVAILABLE AND WILL NOT BE AVAILABLE PRIOR TO CONSTRUCTION.
 - SUBMIT REQUIRED SOIL REPORT, AND SAMPLE OF PROPOSED SOIL AMENDMENTS TO OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
 - RECORD (AS-BUILT) DRAWINGS: FOLLOWING COMPLETION OF PROJECT INSTALLATION, AND PRIOR TO FINAL APPROVAL, CONTRACTOR SHALL PREPARE AND SUBMIT RECORDED DRAWINGS DEPICTING A COMPLETE LANDSCAPE AND IRRIGATION INSTALLATION. PROCEDURE FROM OWNER FULL-SIZE SEPIAS OF CONTRACT DRAWINGS. CONSTRUCTION DRAWINGS SHALL BE ON THE PROJECT SITE AT ALL TIMES DURING INSTALLATION. CONTRACTOR SHALL MAKE A DAILY RECORD OF ALL WORK INSTALLED DURING EACH DAY. ACTUAL LOCATION OF TREES AND SHRUB BEDS, IRRIGATION VALVES, AND ALL IRRIGATION AND DRAINAGE PIPING SHALL BE SHOWN ON THE PRINTS BY DIMENSIONS FROM EASILY IDENTIFIED PERMANENT FEATURES, SUCH AS BUILDING, CURBS, FENCES, WALLS, OR PROPERTY LINES. DRAWINGS SHALL SHOW MANUFACTURER'S NAME AND CATALOG NUMBER. THE DRAWINGS SHALL BE TO SCALE. ALL INFORMATION NOTED ON THE PRINT SHALL BE TRANSFERRED TO THE COPIES BY CONTRACTOR AND ALL INDICATIONS SHALL BE RECORDED IN A NEAT, ORDERLY MANNER. THE RECORD SEPIA SHALL BE TURNED OVER TO THE OWNER'S REPRESENTATIVE.
- GUARANTEES/WARRANTY
- ALL PLANTED AREAS SHALL BE MAINTAINED FOR A PERIOD OF SIXTY DAYS FOLLOWING WRITTEN ACCEPTANCE BY OWNER'S REPRESENTATIVE. LANDSCAPE CONTRACTOR WILL GUARANTEE ALL PLANT MATERIAL (INCLUDING BUT NOT LIMITED TO TREES, SHRUBS, GROUNDCOVER, AND GRASSES) FOR A PERIOD OF ONE FULL YEAR FOLLOWING FINAL ACCEPTANCE OF THE LANDSCAPE INSTALLATION BY THE OWNER'S AUTHORIZED REPRESENTATIVE. IN BIDDING AND INSTALLING THE PLANT MATERIAL SPECIFIED ON THESE PLANS, THE LANDSCAPE CONTRACTOR AGREES THAT THE PLANT MATERIAL SPECIFIED IS SUITABLE TO THE PROJECT SITE. FURTHERMORE, THE LANDSCAPE CONTRACTOR AGREES TO HONOR THE WARRANTY AND, IF NECESSARY, REPLACE SPECIES WITH A MORE HARDY PLANT TYPE IF DEEMED NECESSARY DUE TO EXCESSIVE DIE OFF. IF THE LANDSCAPE CONTRACTOR DOES NOT BELIEVE CERTAIN PLANT MATERIAL IS SUITABLE FOR THE SITE AND/OR ITS MICRO-CLIMATES, THE LANDSCAPE CONTRACTOR SHALL REQUEST TO MAKE PLANT MATERIAL SUBSTITUTIONS IN WRITING TO THE LANDSCAPE ARCHITECT PRIOR TO THE START OF INSTALLATION. PROPOSED SUBSTITUTIONS WILL RESULT IN NO ADDED COST.

BID SET



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REGISTERED LANDSCAPE ARCHITECT
 DALE A. DOERFF
 141
 STATE OF NEVADA
 Expires 12/31/2021

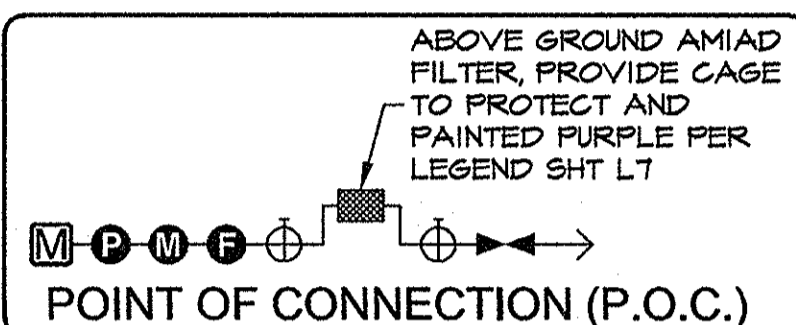
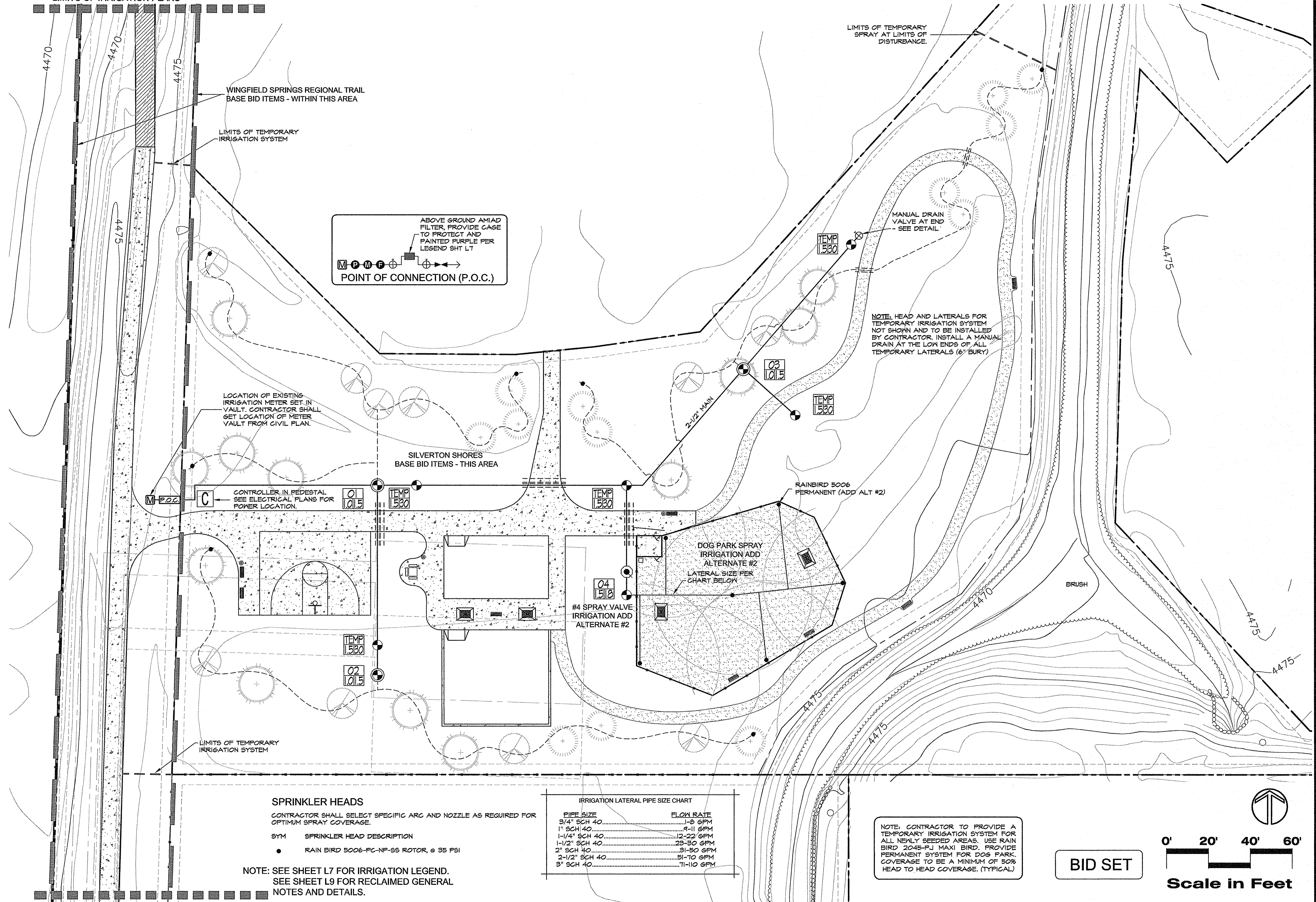
Landscape Plan
SILVERTON SHORES PARK
 City of Sparks, Parks Department
 Washoe Co.
 Nevada

No.	Revision Date

LA No. 281-204-08-16
 Designed: DD
 Drawn: GGG
 Checked: RHH
 Date: 6/20/17

Sheet
L5
 of
 16

LIMITS OF IRRIGATION PLANS



LOCATION OF EXISTING IRRIGATION METER SET IN VAULT. CONTRACTOR SHALL GET LOCATION OF METER VAULT FROM CIVIL PLAN.

CONTROLLER IN PEDESTAL SEE ELECTRICAL PLANS FOR POWER LOCATION.

SILVERTON SHORES BASE BID ITEMS - THIS AREA

RAINBIRD 5006 PERMANENT (ADD ALT #2)

DOG PARK SPRAY IRRIGATION ADD ALTERNATE #2 LATERAL SIZE PER CHART BELOW

#4 SPRAY VALVE IRRIGATION ADD ALTERNATE #2

SPRINKLER HEADS

CONTRACTOR SHALL SELECT SPECIFIC ARC AND NOZZLE AS REQUIRED FOR OPTIMUM SPRAY COVERAGE.

SYM	SPRINKLER HEAD DESCRIPTION
•	RAIN BIRD 5006-PC-NP-SS ROTOR, @ 95 PSI

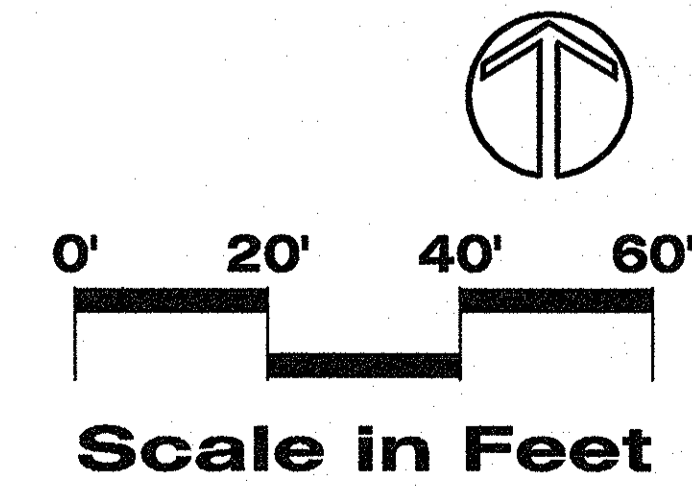
NOTE: SEE SHEET L7 FOR IRRIGATION LEGEND. SEE SHEET L9 FOR RECLAIMED GENERAL NOTES AND DETAILS.

IRRIGATION LATERAL PIPE SIZE CHART

PIPE SIZE	FLOW RATE
3/4" SCH 40	1-8 GPM
1" SCH 40	9-11 GPM
1-1/4" SCH 40	12-22 GPM
1-1/2" SCH 40	23-50 GPM
2" SCH 40	51-80 GPM
2-1/2" SCH 40	81-110 GPM
3" SCH 40	111-140 GPM

NOTE: CONTRACTOR TO PROVIDE A TEMPORARY IRRIGATION SYSTEM FOR ALL NEWLY SEEDED AREAS. USE RAIN BIRD 2045-PJ MAXI BIRD. PROVIDE PERMANENT SYSTEM FOR DOG PARK. COVERAGE TO BE A MINIMUM OF 50% HEAD TO HEAD COVERAGE. (TYPICAL)

BID SET



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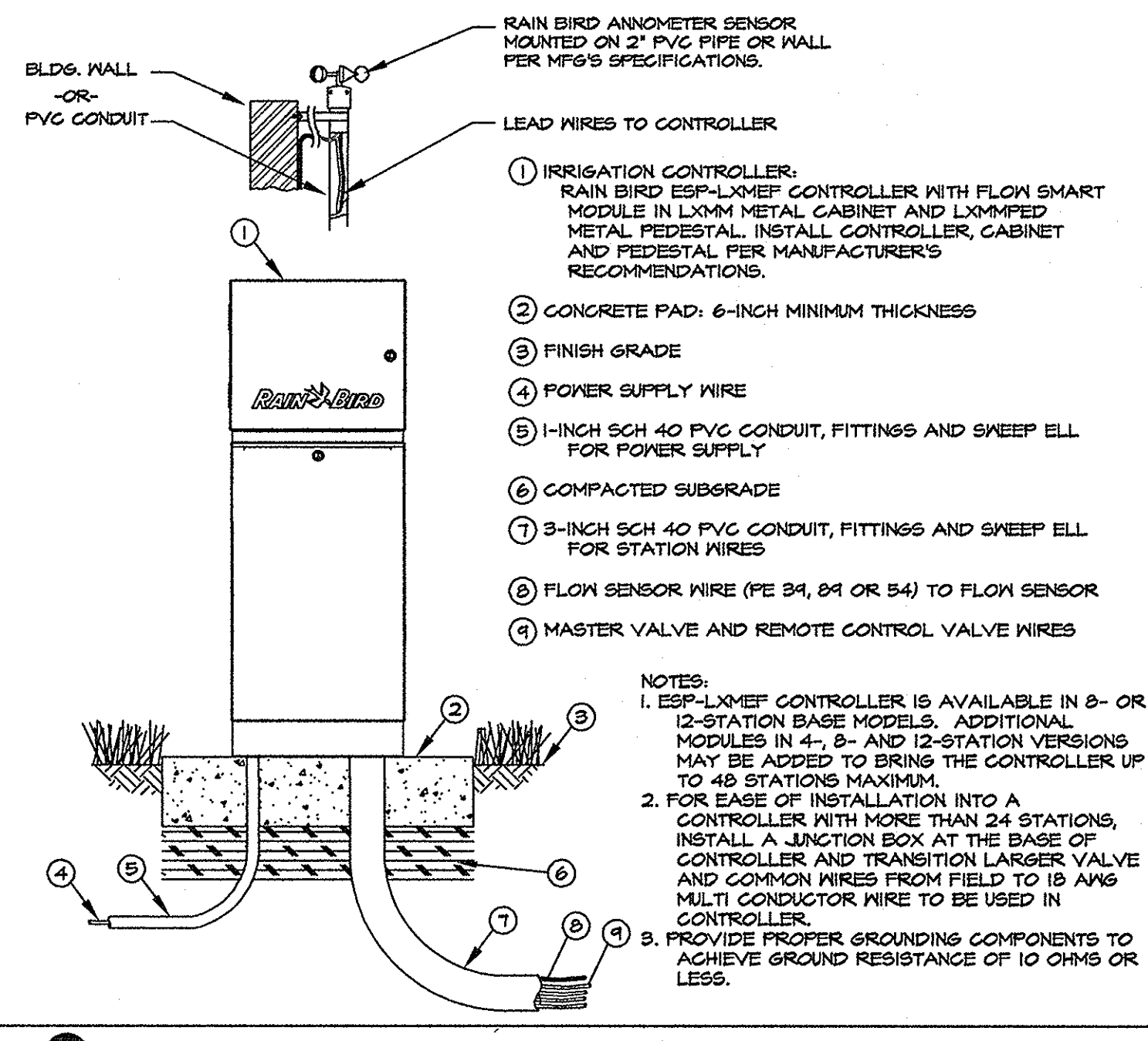
REGISTERED LANDSCAPE ARCHITECT
DALE A. DOBRY
141
Nevada

Reclaimed Irrigation Plan
SILVERTON SHORES PARK
City of Sparks, Parks Department

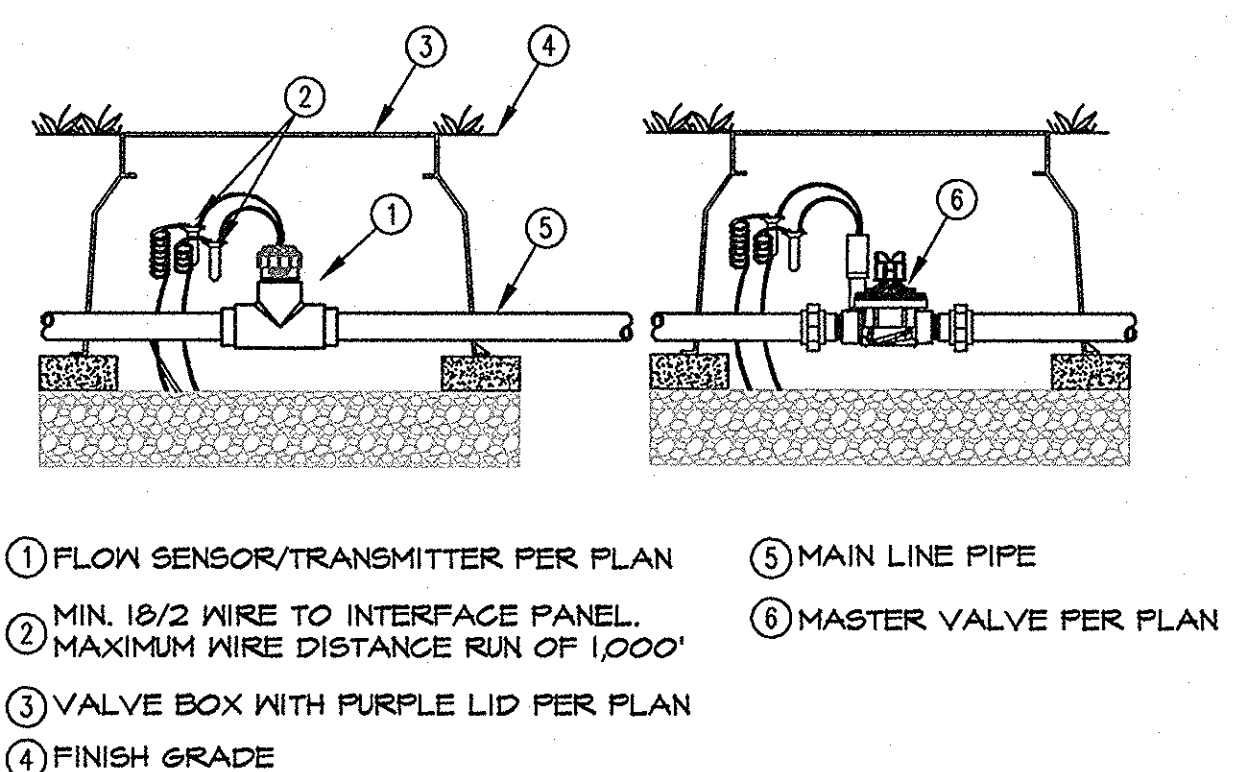
No.	Revision Date

LA No: 251-204-08-16
Designed: DD
Drawn: GSS
Checked: RWH
Date: 6/20/17

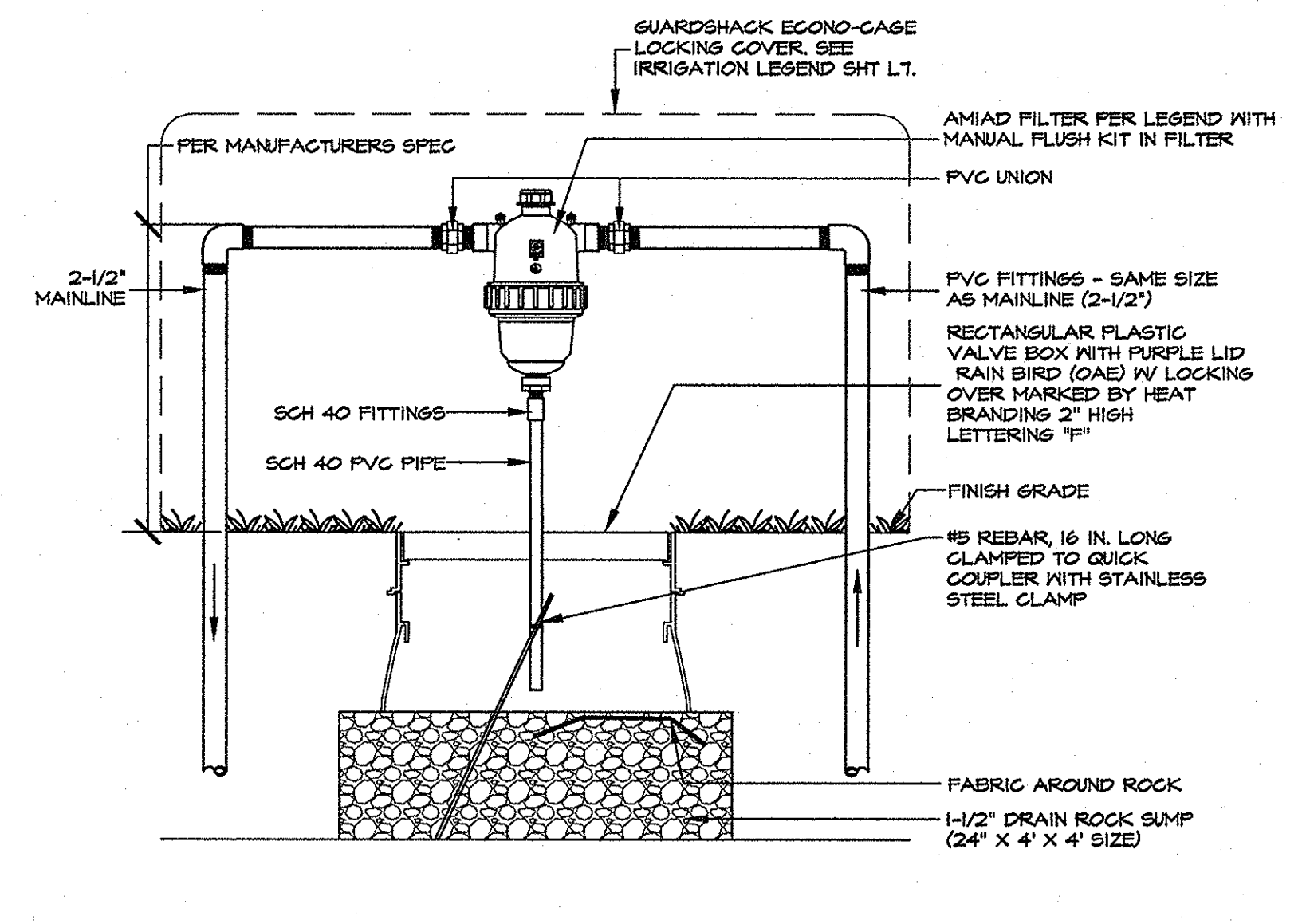
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of
16



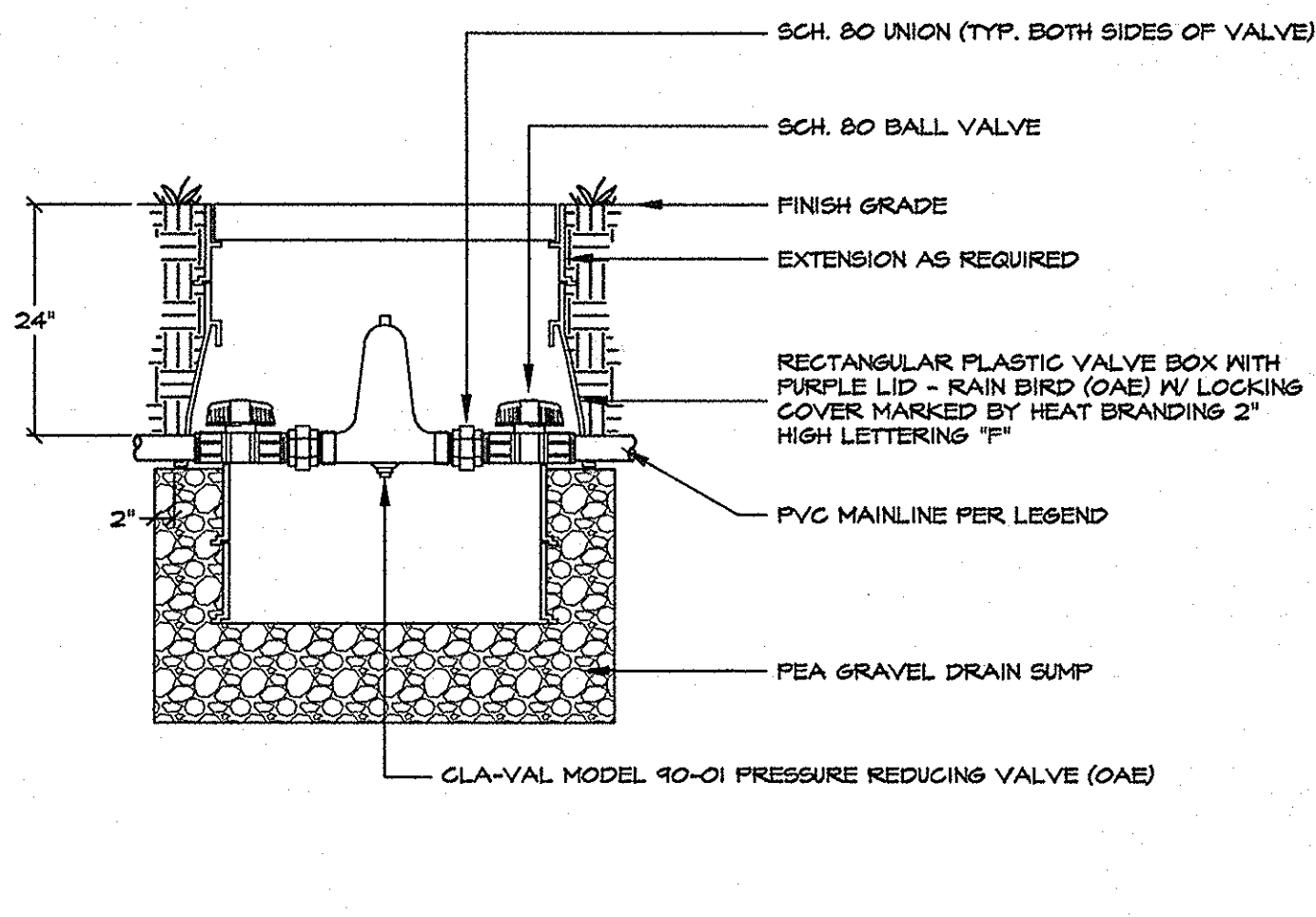
2 METAL PEDESTAL CONTROLLER NOT TO SCALE



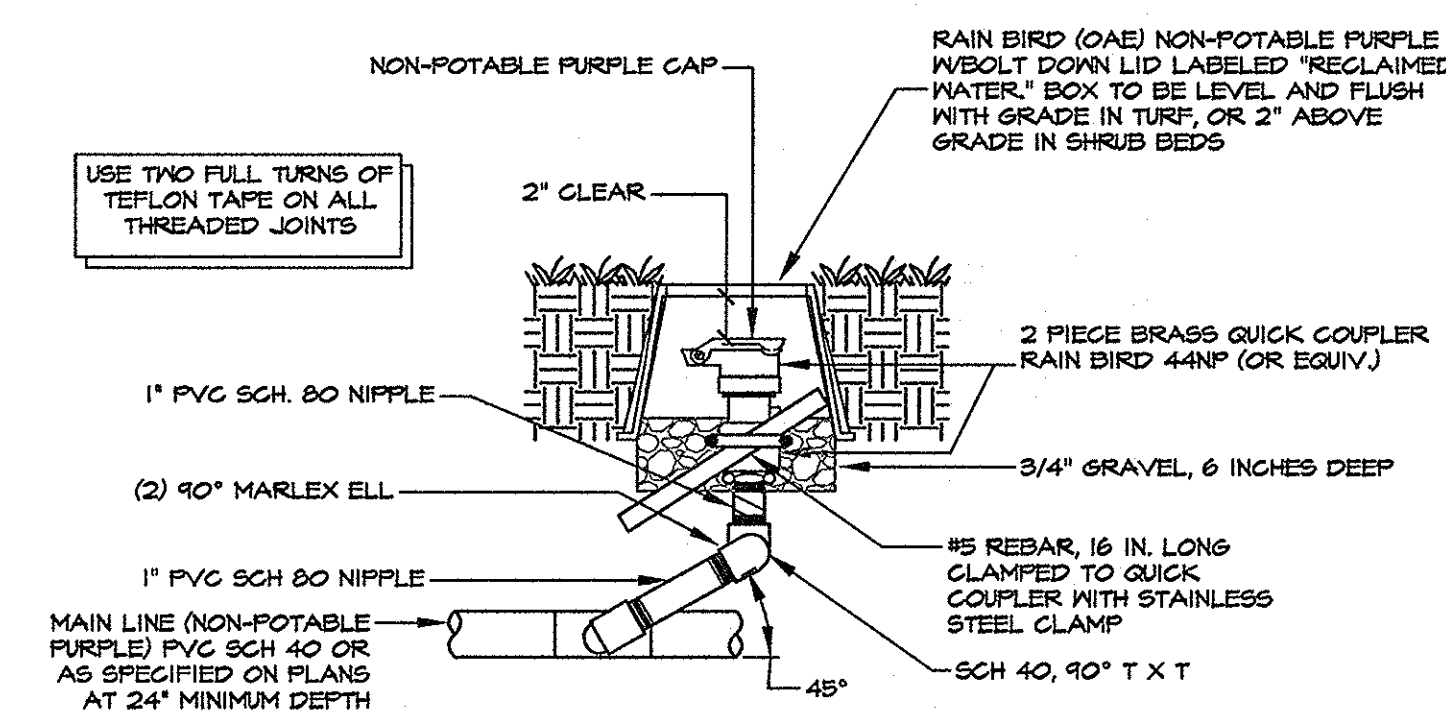
3 FLOW-CLIK SENSOR NOT TO SCALE



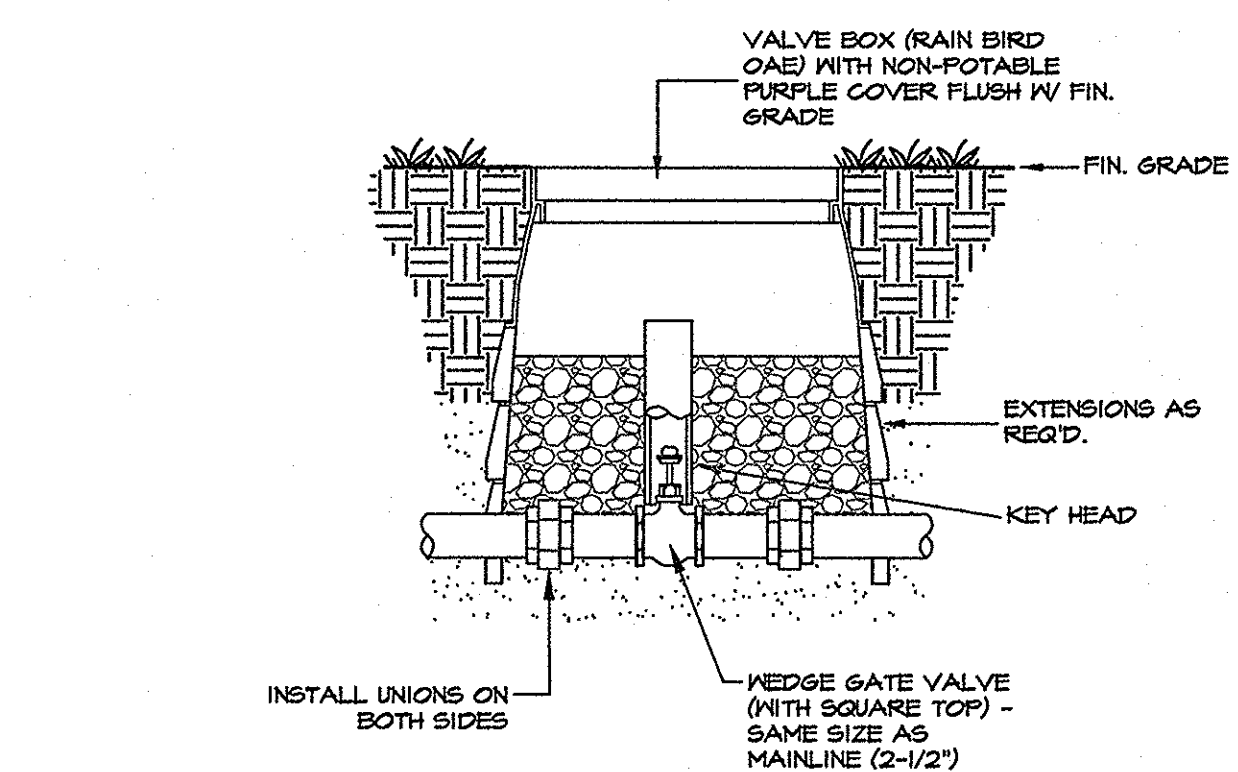
4 ABOVE GROUND IN-LINE FILTER NOT TO SCALE



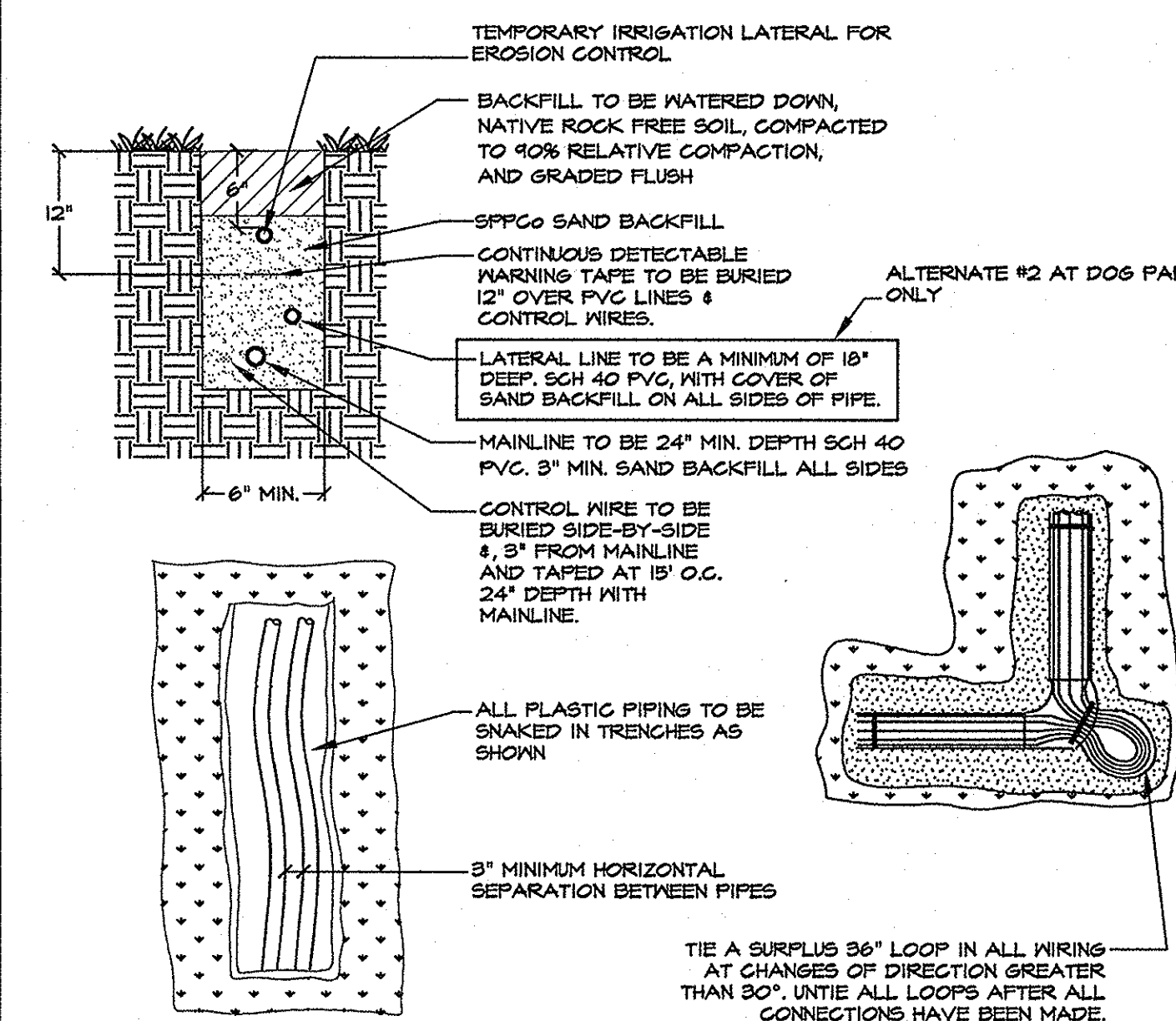
5 INLINE PRESSURE REGULATOR NOT TO SCALE



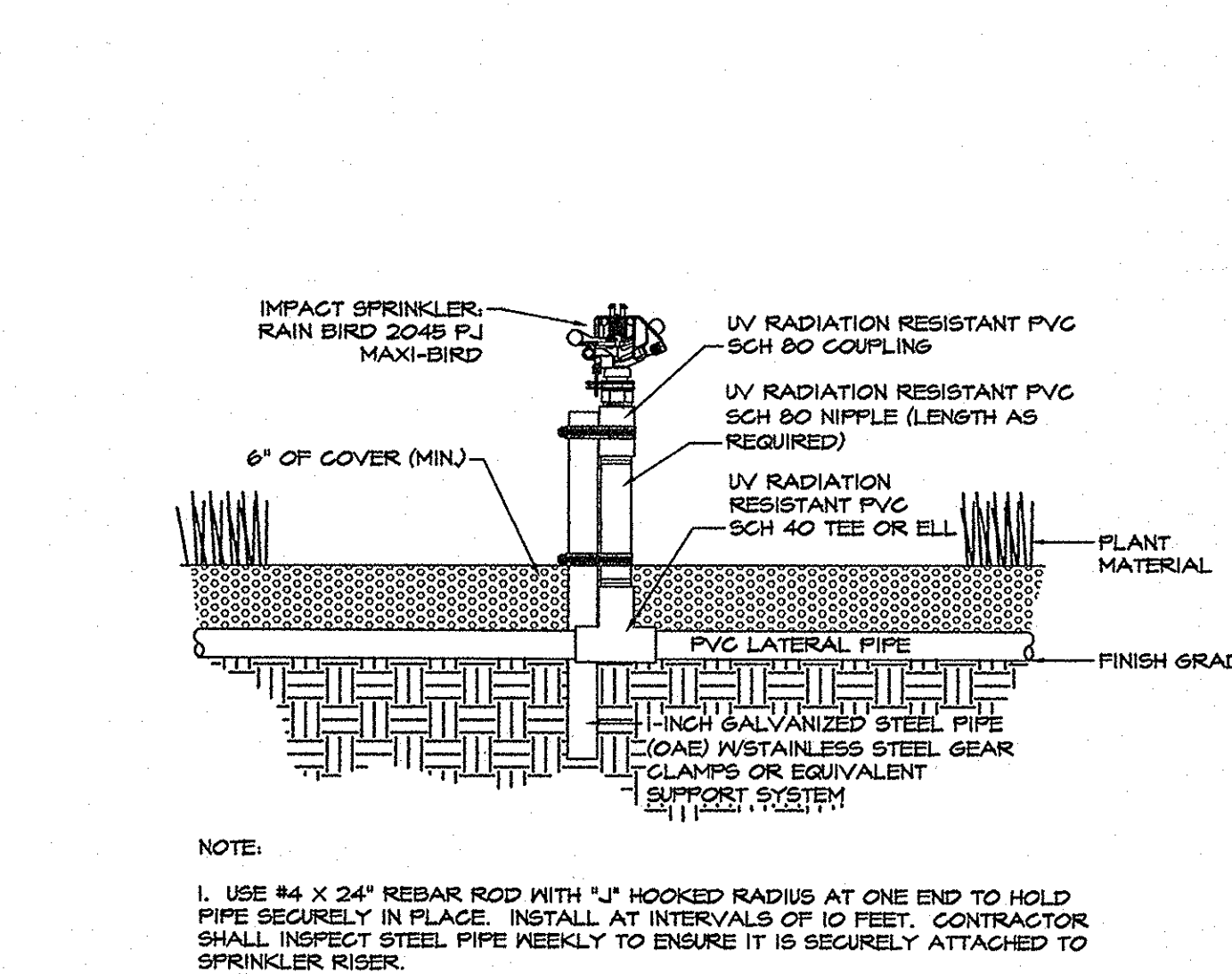
6 QUICK COUPLING VALVE NOT TO SCALE



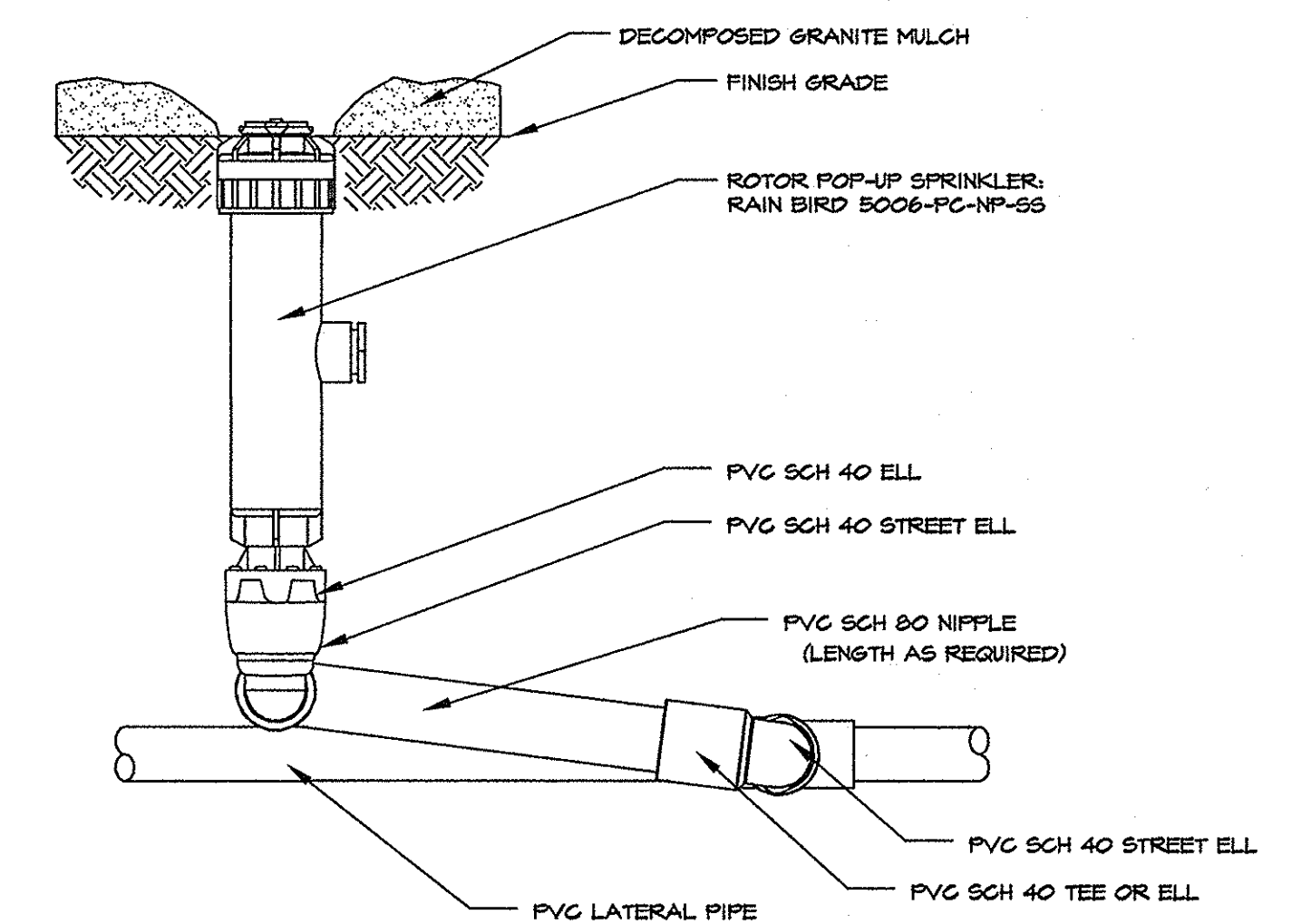
7 WEDGE GATE VALVE NOT TO SCALE



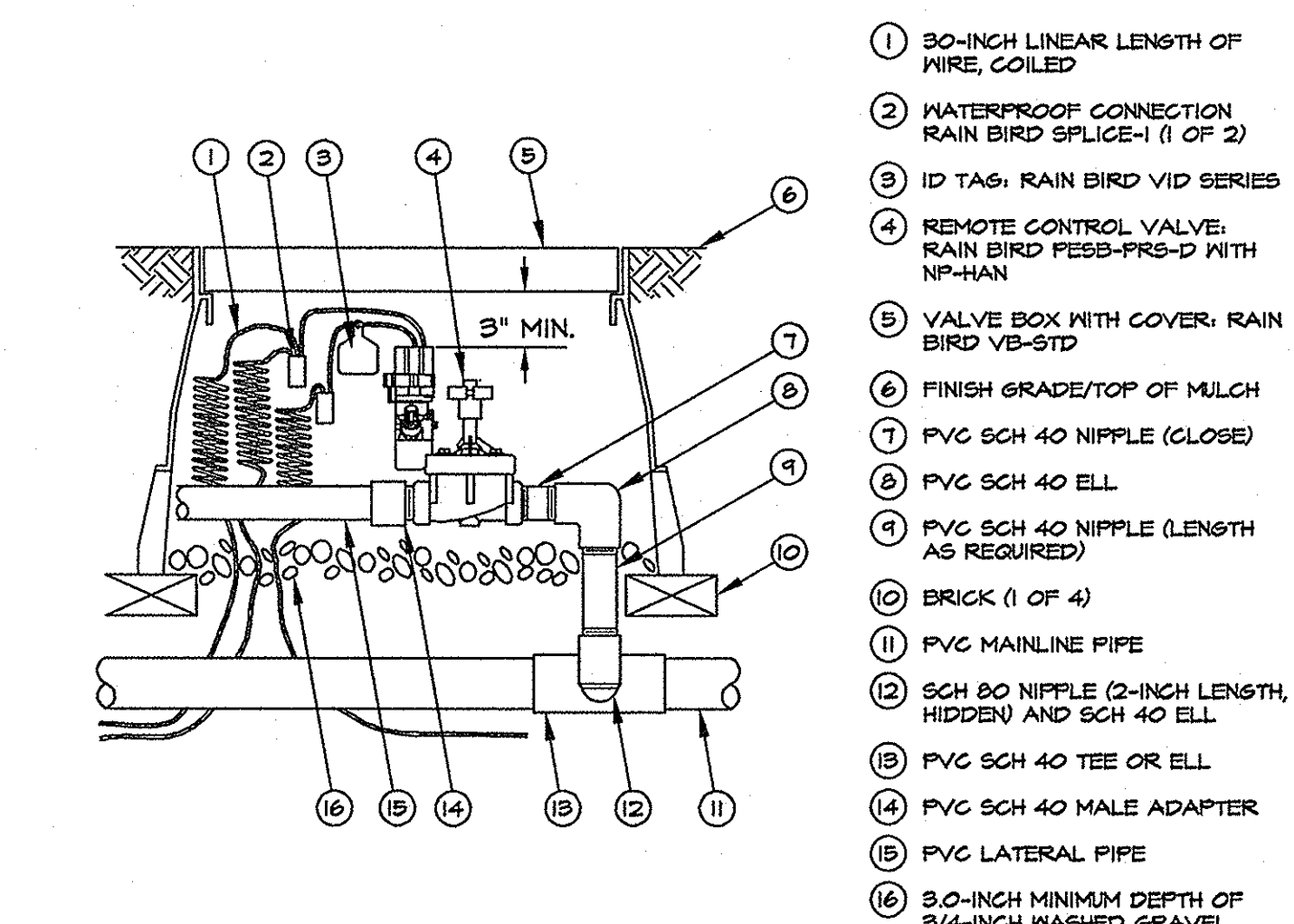
8 TRENCH DETAIL/CONTROLLER WIRING NOT TO SCALE



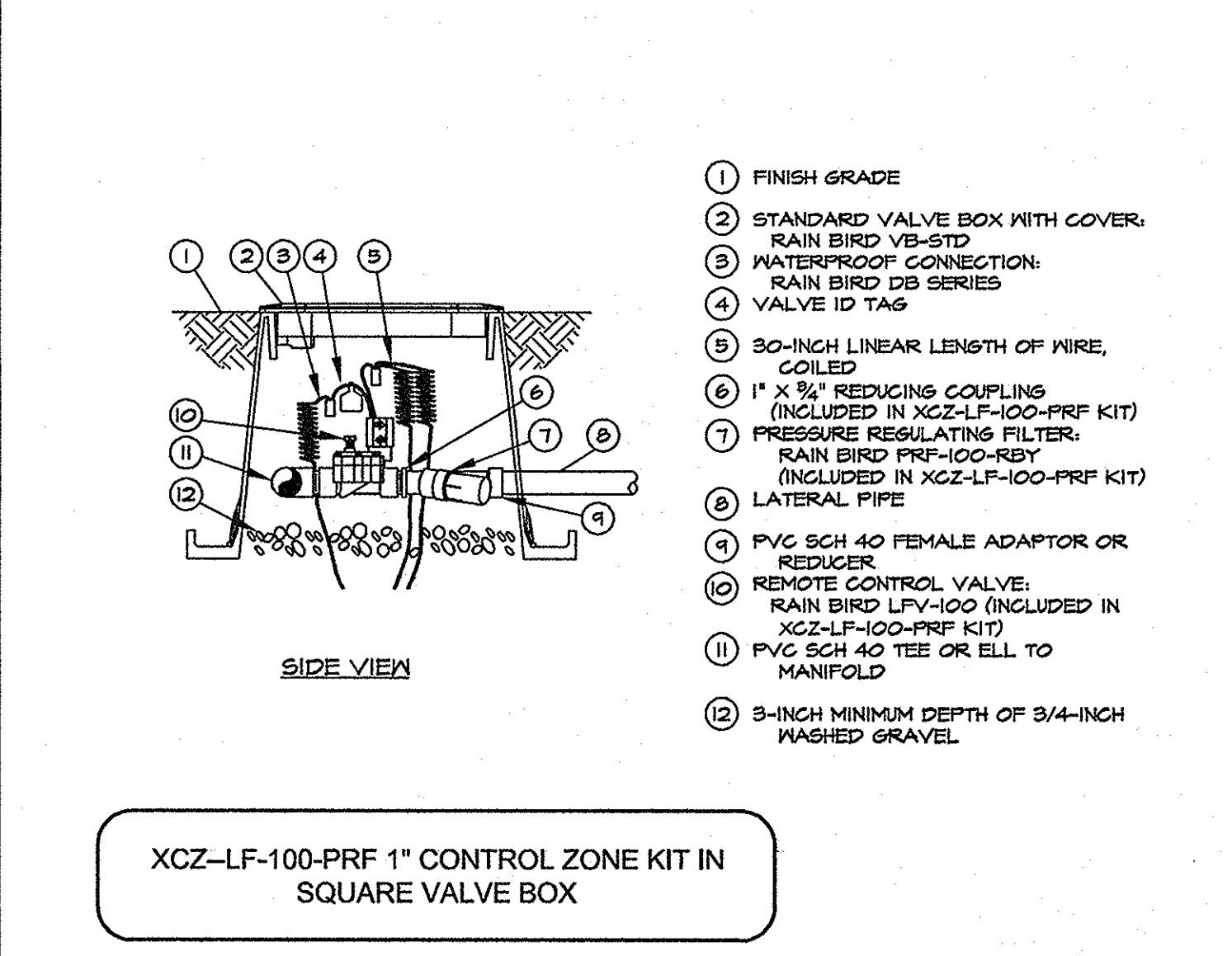
9 TEMPORARY ABOVE GROUND SPRINKLER NOT TO SCALE



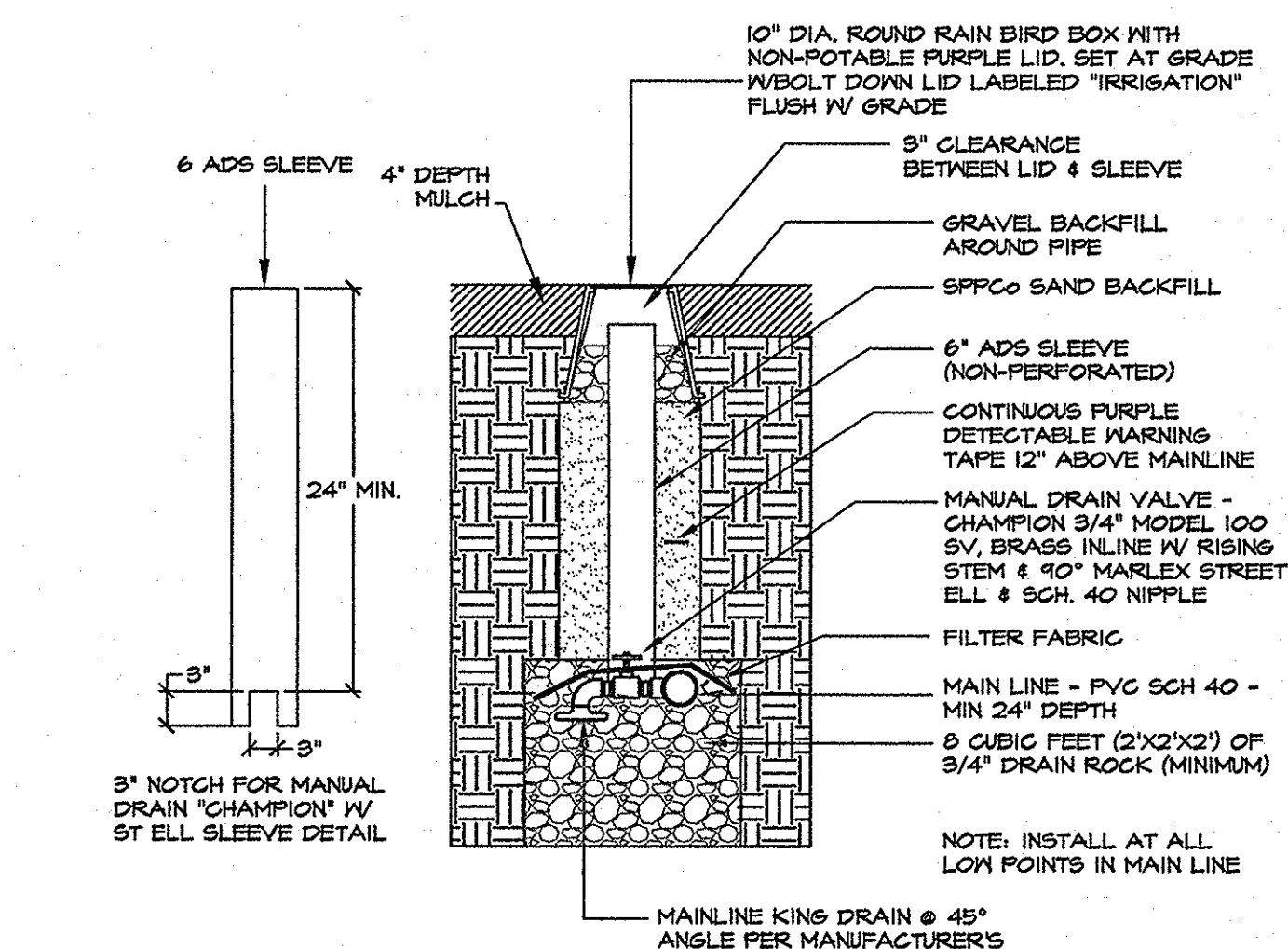
10 5000 ROTOR - POP UP SPRINKLER (DOG PARK ONLY) NOT TO SCALE



11 SPRAY VALVE ASSEMBLY NOT TO SCALE



11 DRIP VALVE ASSEMBLY NOT TO SCALE



12 MANUAL DRAIN VALVE (MAINLINE) NOT TO SCALE

No.	Revision Date

LA No: 281-804-08-16
 Design: DD
 Drawn: 665
 Checked: RPH
 Date: 6/20/17

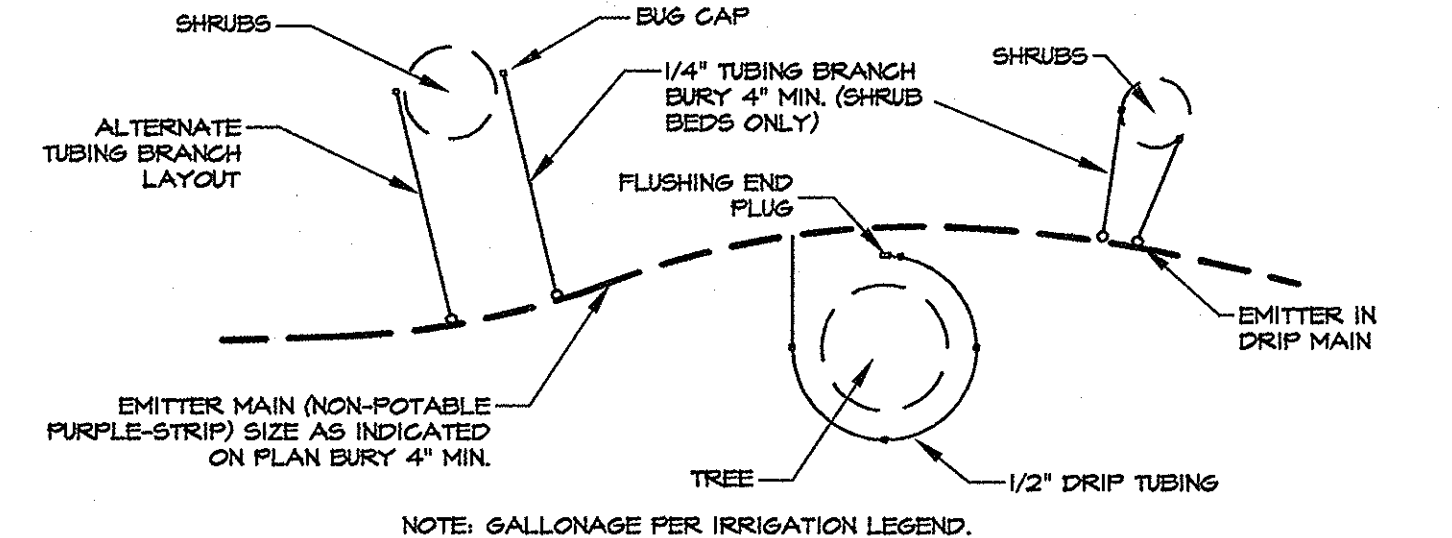
BID SET

Sheet **L8** of **16**

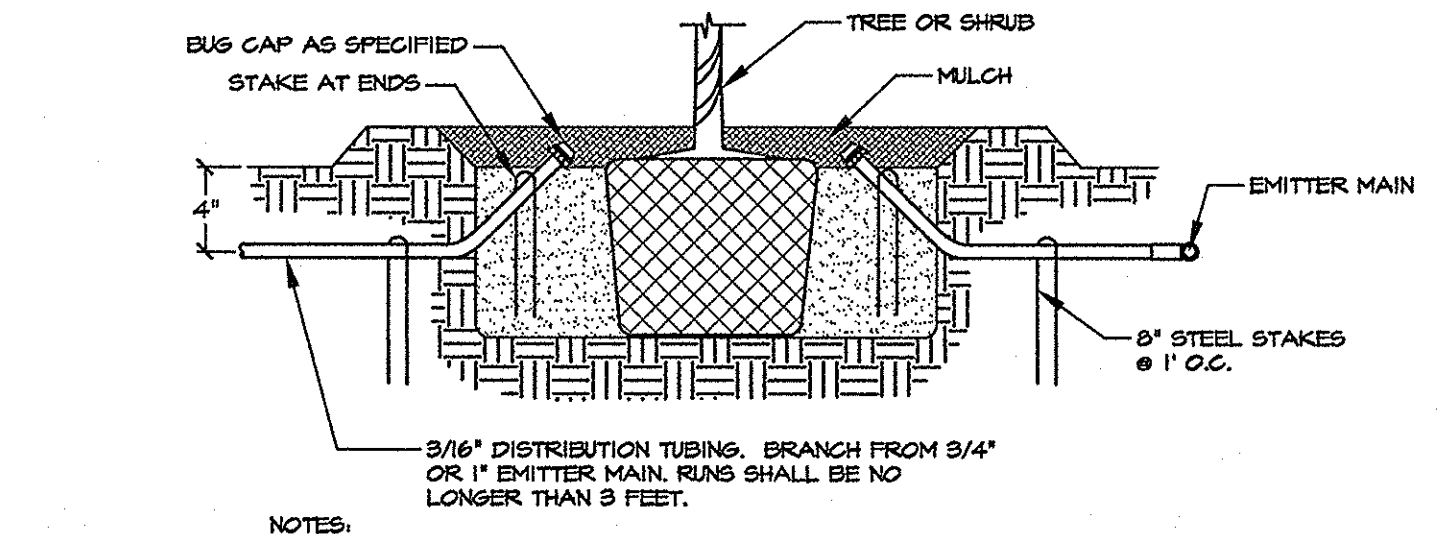


- NOTES:
1. INSTALL SIGNS AT ALL POINTS OF PUBLIC ACCESS (GATES, DRIVEWAYS, ETC.) AND AT 300 FEET INTERVALS (MINIMUM) ALONG PROJECT FENCE LINE OR BORDER. IF EFFLUENT IS STORED IN PONDS, PROVIDE SIGNAGE AT PONDS.
 2. SIGNS SHALL BE BILINGUAL, IN ENGLISH AND SPANISH.
 3. PROVIDE METAL SIGN WITH WHITE LETTERS ON PURPLE BACKGROUND ON 80 GAUGE METAL.
 4. MOUNT SIGN ON U-CHANNEL POST.
 5. REFERENCE NDEP INTS-1A FOP ALTERNATE SIGNS THAT ARE ACCEPTABLE.

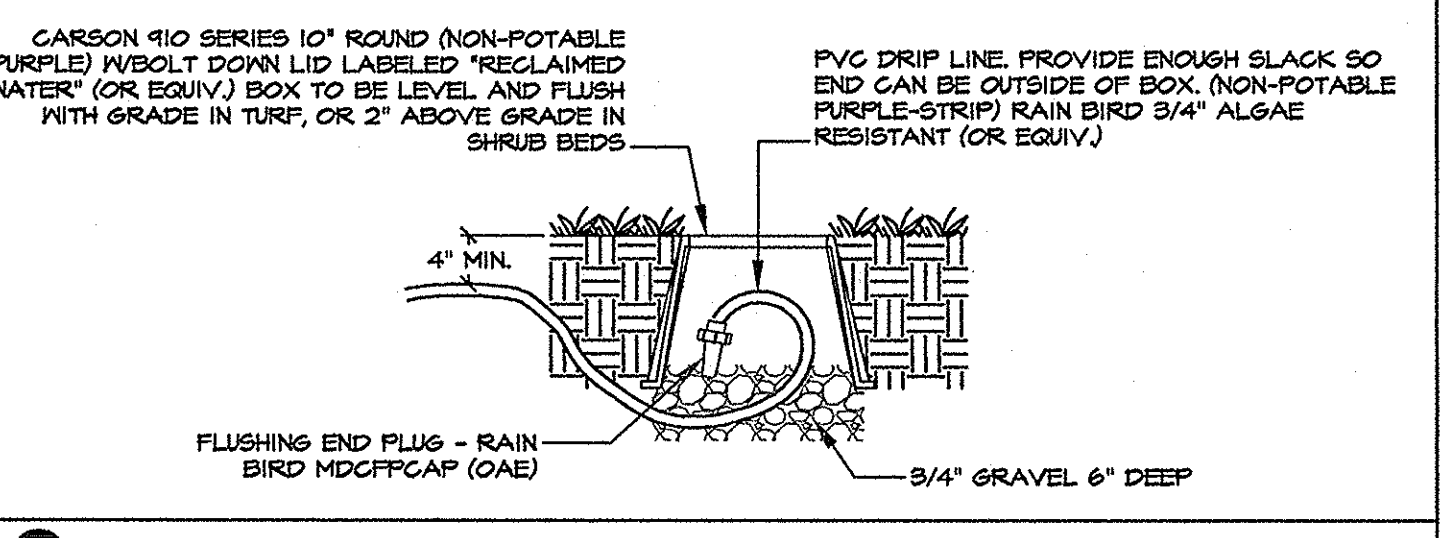
1 RECLAIMED WATER WARNING SIGN NOT TO SCALE



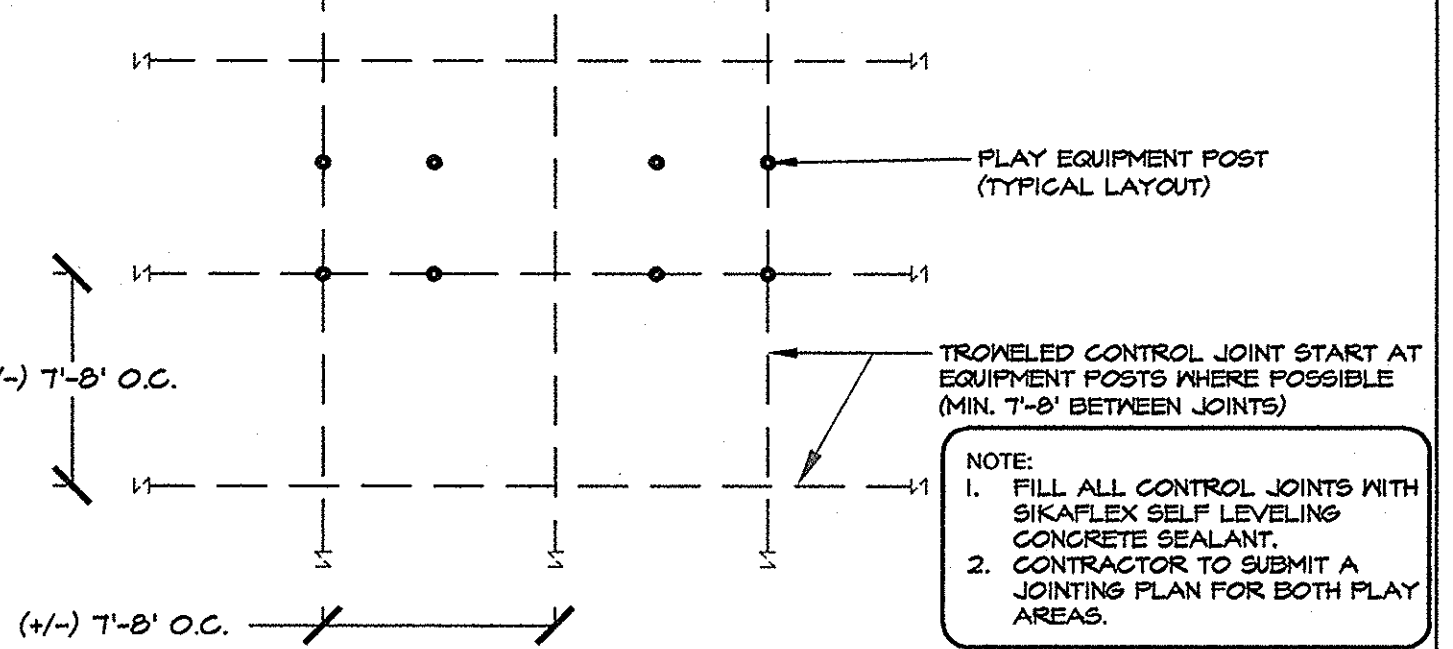
2 DRIP EMITTER LAYOUT NOT TO SCALE



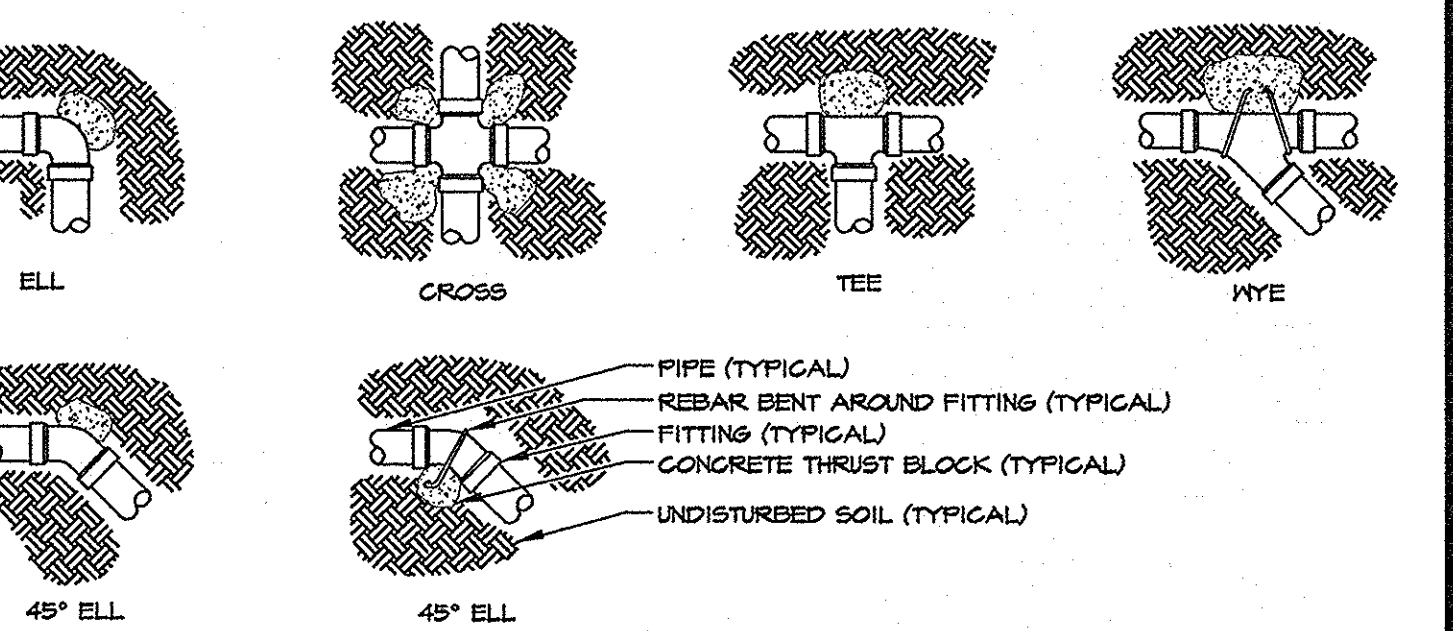
3 DRIP EMITTER DETAIL NOT TO SCALE



4 FLUSHING END PLUG NOT TO SCALE



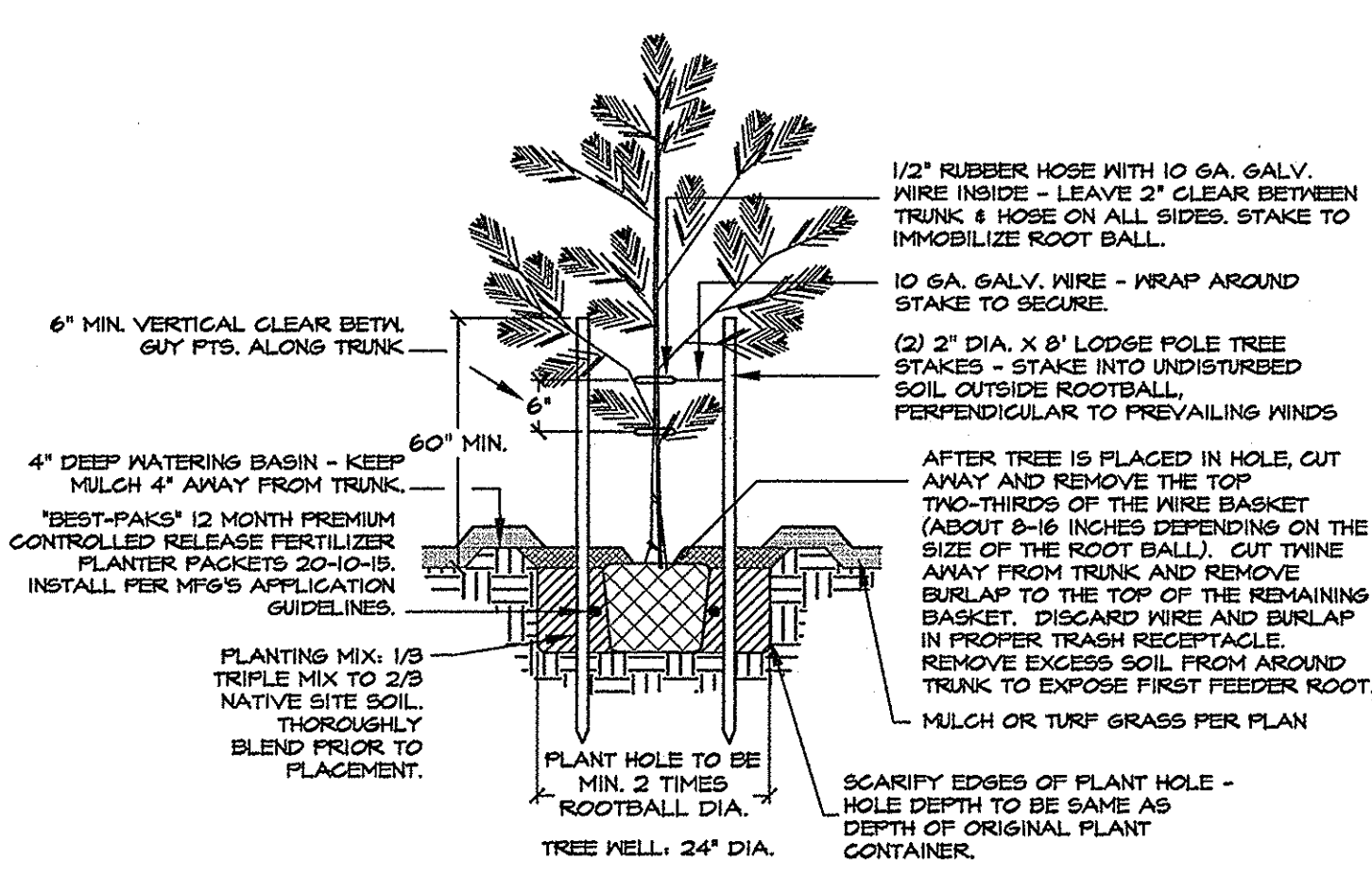
5 CONCRETE PAD CONTROL JOINT DETAIL: ADD ALT #1 NOT TO SCALE



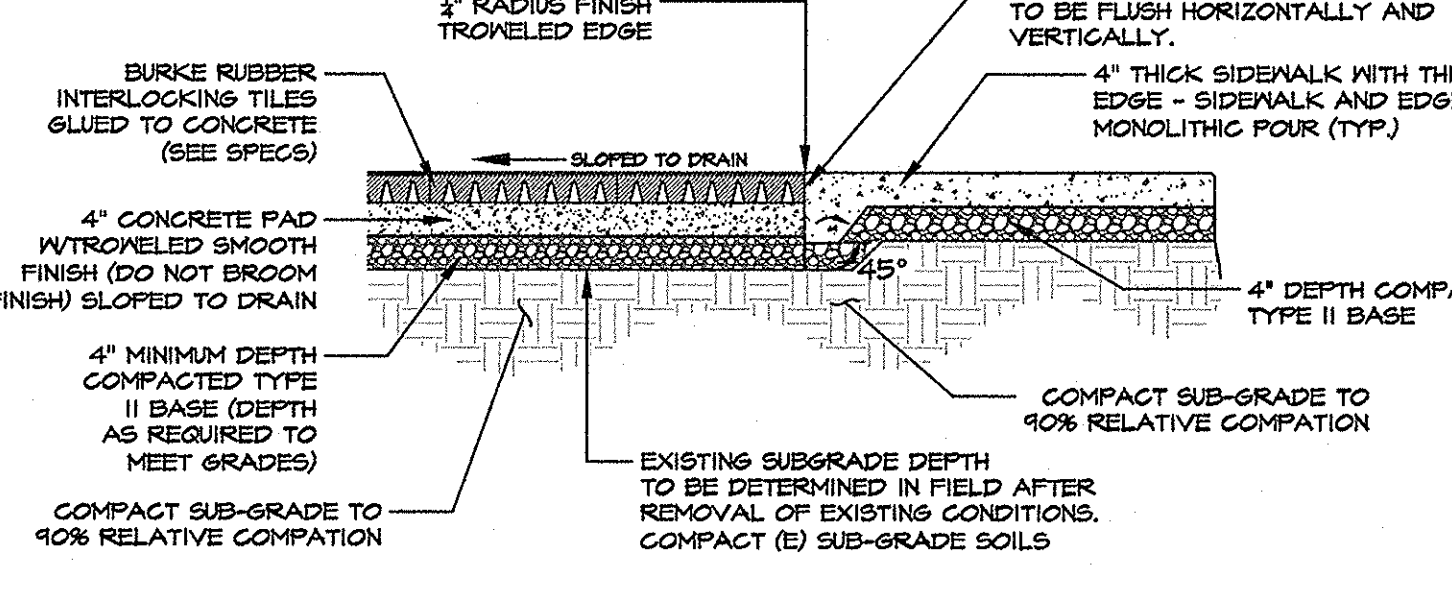
		THRUST BLOCK BEARING AREA (sq. ft.)				
PIPE SIZE	TYPE OF FITTING	ELL	CROSS	TEE	45°-ELL	NYE
4"		2	2	2	1	1
6"		4	4	4	4	2

- NOTES:
1. THRUST BLOCKS TO BE CONSTRUCTED OF 3000 PSI CONCRETE
 2. AREAS GIVEN ARE FOR SCH 40 PIPE AT TEST PRESSURE OF 100 PSI WITH 2000 PSF BEARING CAPACITY. INSTALLATIONS USING DIFFERENT PIPE, TEST PRESSURES, AND/OR SOIL TYPES SHOULD ADJUST AREAS ACCORDINGLY, SUBJECT TO APPROVAL OF ENGINEER.
 3. BLOCKS TO BE POURED AGAINST UNDISTURBED SOIL.
 4. JOINTS AND FACE OF PLUGS TO BE KEPT CLEAR OF CONCRETE.

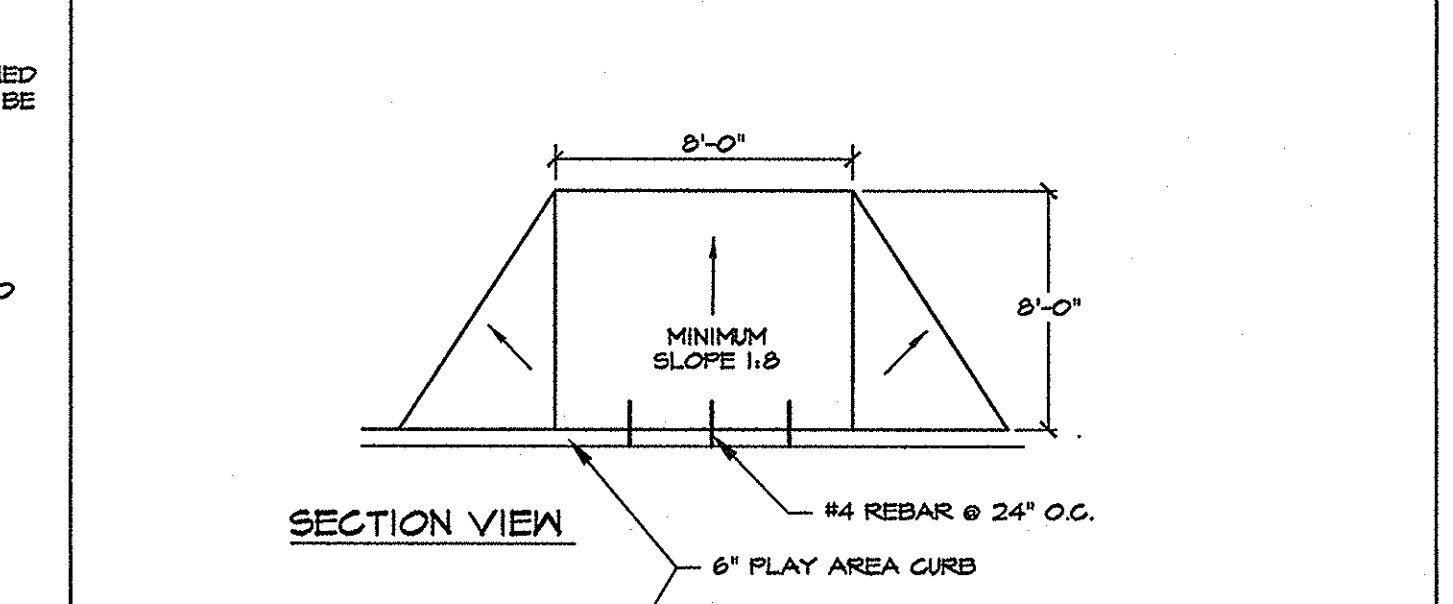
6 CONCRETE THRUST BLOCK DETAIL NOT TO SCALE



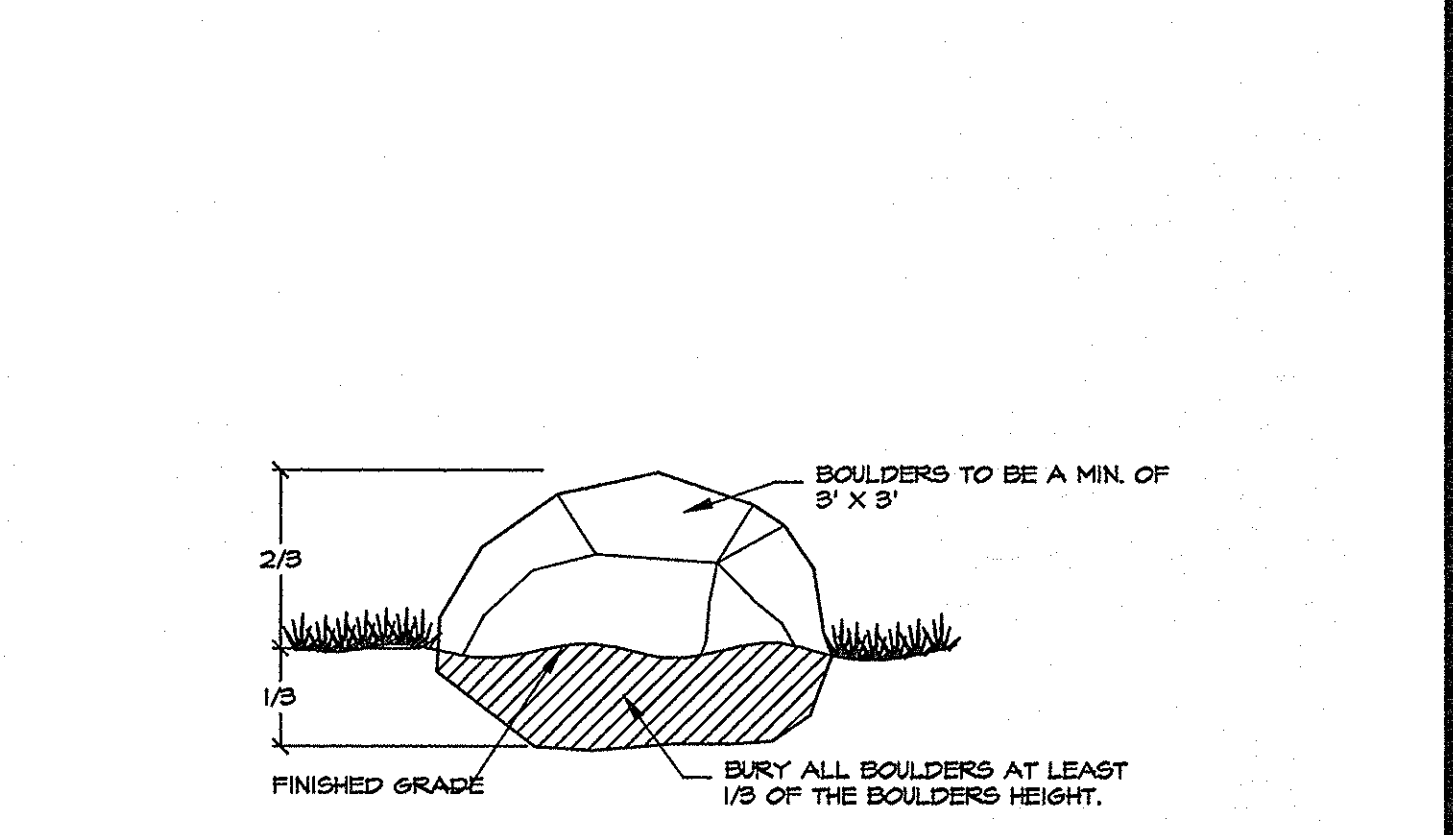
7 EVERGREEN TREE PLANTING NOT TO SCALE



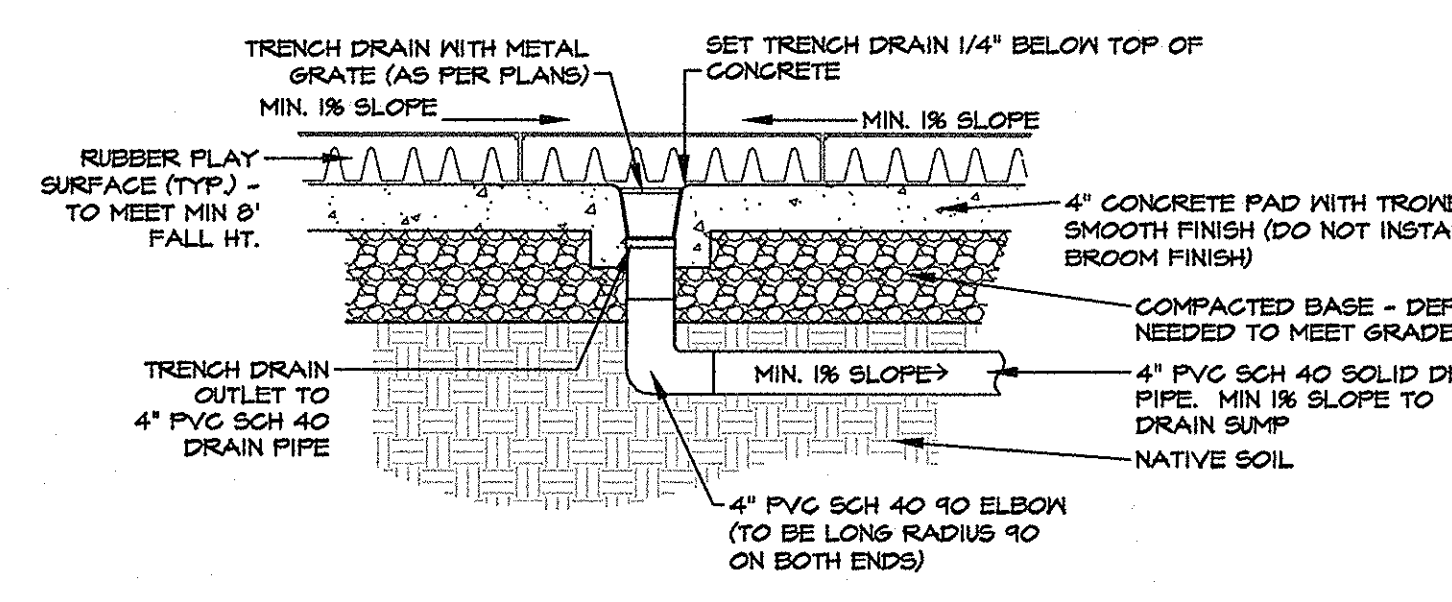
8 RUBBER TILE DETAIL - ADD ALTERNATE #1 BID NOT TO SCALE



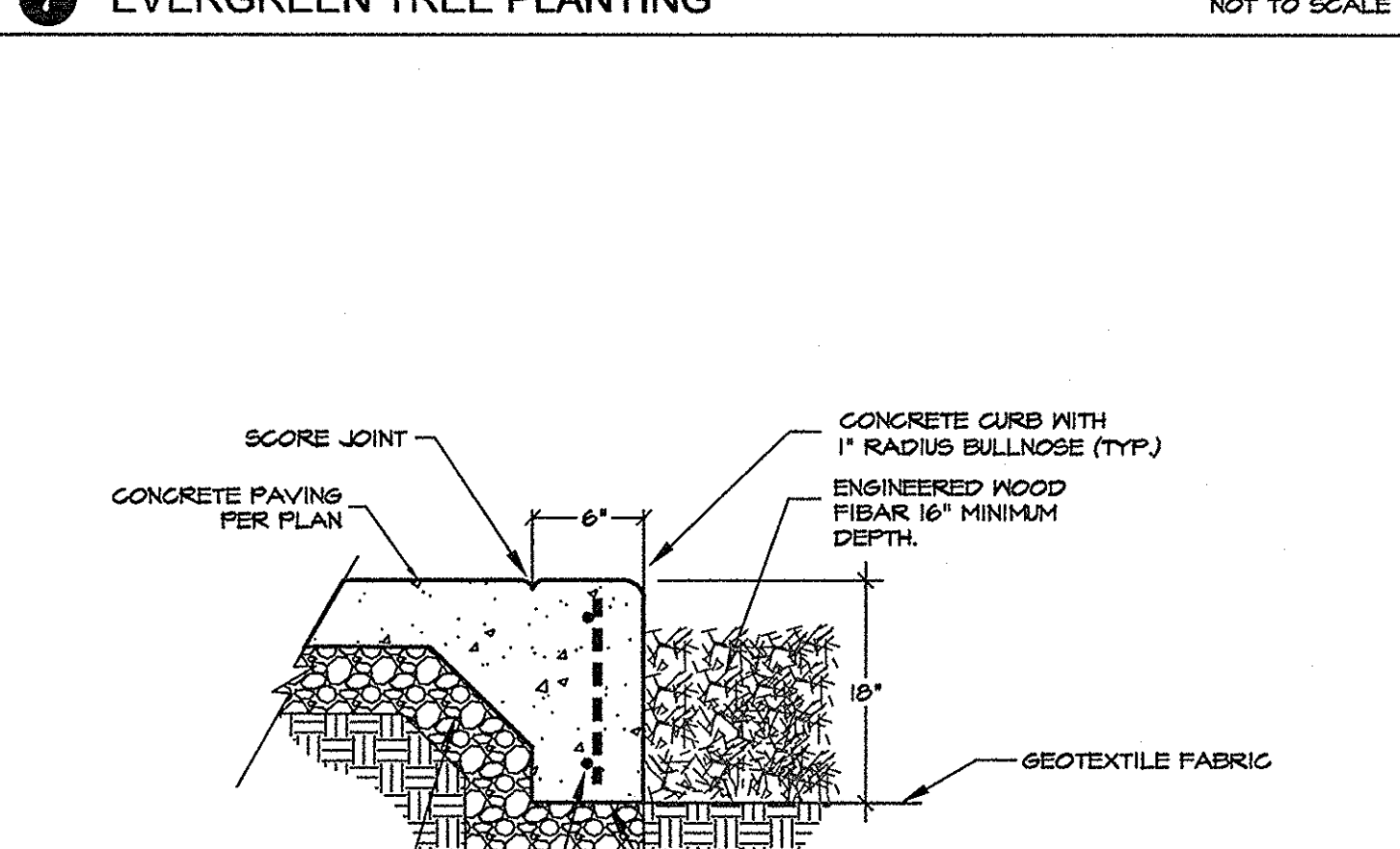
10 CONCRETE PLAYCURB - BASE BID NOT TO SCALE



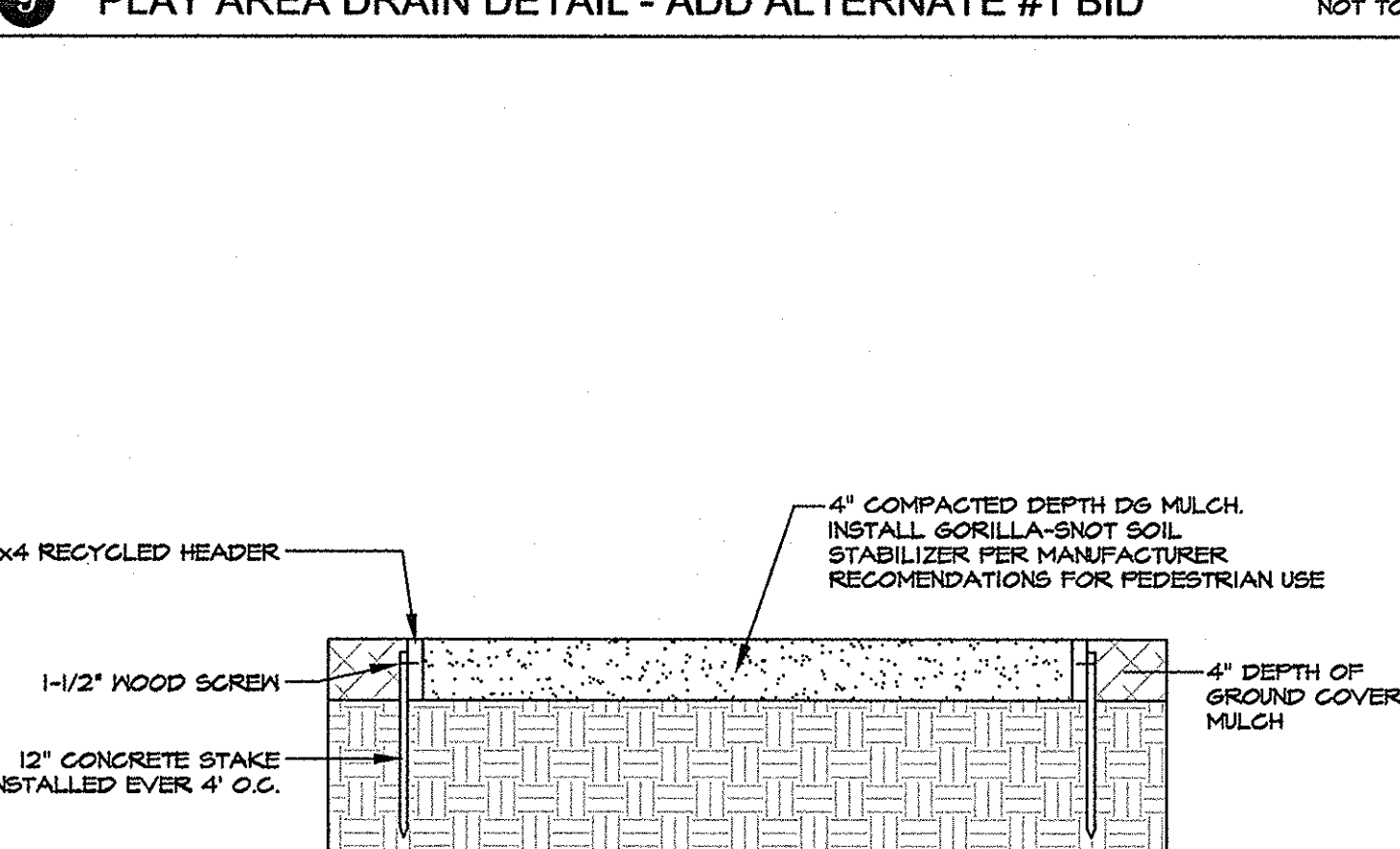
11 LANDSCAPE BOULDER DETAIL NOT TO SCALE



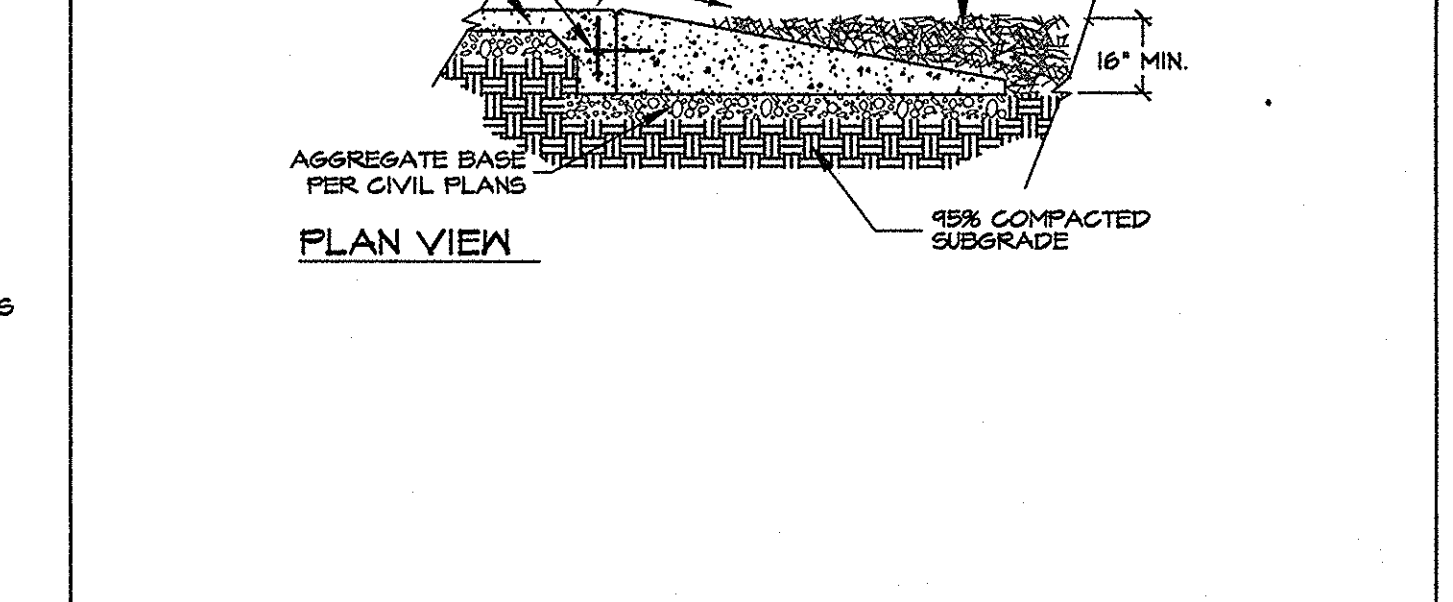
9 PLAY AREA DRAIN DETAIL - ADD ALTERNATE #1 BID NOT TO SCALE



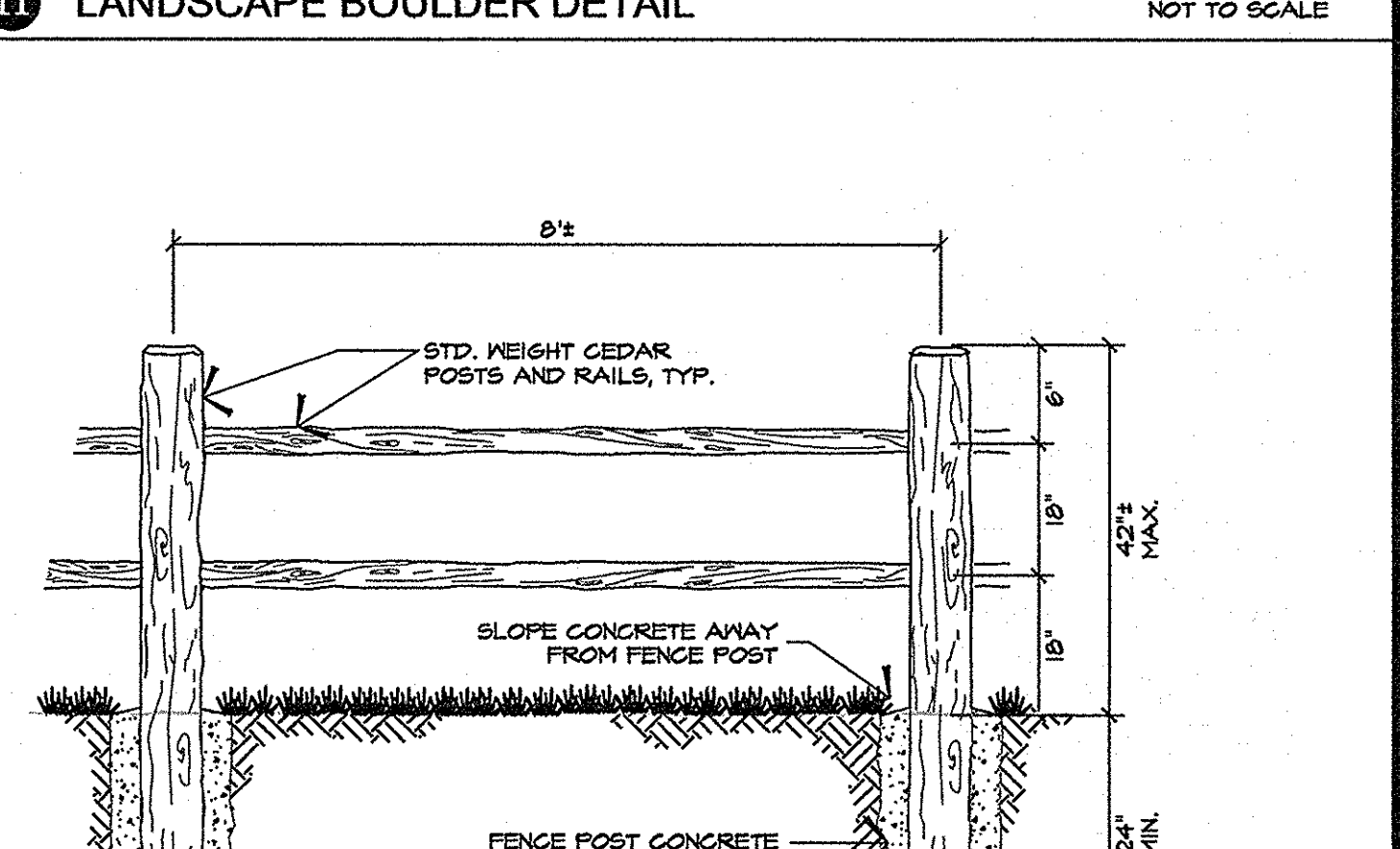
12 THICKENED SIDEWALK EDGE - PLAYCURB - BASE BID NOT TO SCALE



13 DG DOG PLAY AREA - ADD ALTERNATE #2 BID NOT TO SCALE



14 CONCRETE PLAYCURB - BASE BID NOT TO SCALE



15 SPLIT RAIL FENCING DETAIL NOT TO SCALE

12 THICKENED SIDEWALK EDGE - PLAYCURB - BASE BID NOT TO SCALE

13 DG DOG PLAY AREA - ADD ALTERNATE #2 BID NOT TO SCALE

14 CONCRETE PLAYCURB - BASE BID NOT TO SCALE

15 SPLIT RAIL FENCING DETAIL NOT TO SCALE

BID SET

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REGISTERED LANDSCAPE ARCHITECT
 DALE A. OSBORN
 State of Nevada
 License No. 141

Landscape & Reclaimed Irrigation Details
SILVERTON SHORES PARK
 City of Sparks, Parks Department
 Washoe Co.

No.	Revision Date

LA No: 251-504-08-16
 Designed: DD
 Drawn: GGG
 Checked: RWH
 Date: 6/20/17

SILVERTON SHORES PARK
PLAYGROUND SPECIFICATIONS

PART 1 - GENERAL

- Description:** Installations shall be completed per manufacturer recommendations, manufacturer specifications, and within applicable safety and ADA references as listed below. The work shall include any incidentals required to provide a finished job to the satisfaction of City of Sparks representative.
- Reference Safety Guidelines, Standards and ADA Compliance:** All materials and product installations shall conform to the current issue of:
 - "Handbook for Public Playground Safety" published by the Consumer Product Safety Commission (CPSC);
 - ASTM 1487-07a; and 3) ADA Accessibility Guidelines (ADAAG) for Play Areas. The Contractor shall be responsible for all new products and installations are compliant with these references. All construction and materials shall conform to the latest "Standard Specifications for Public Works Construction, City of Sparks, Nevada: (Orange Book) including all addenda.
- Quality Assurance:** The playground installation Contractor shall have the following:
 - Have at least (5) five recent (within the last 3 years) installations of play equipment, including (3) three installations of safety surfacing utilizing the specified product and/or an approved equivalent.
 - Contractor shall have a current C-25 Contractors License.
 - The Contractor shall have a responsible individual(s) under employment serving as a "Certified Playground Safety Inspector", as recognized by the National Playground Safety Institute and the National Recreation and Park Association, with current validation. The Contractor shall within 48 hours of request produce written verification of such.
- Submittals:** The Contractor shall submit to owner for approval prior to ordering; technical specifications and samples of the following products;
 - Specified play equipment site plan and 3D view for approval.
 - Specified play equipment color scheme options for approval.
 - Rubber Tile: specified product sell sheet and cut sheets for approval.
 - Rubber Tile: One sample of each height of rubber tile with specified color.
 - Rubber Tile Adhesives: specified product sell sheet and cut sheets for approval.
 - Specified concrete mix details.
 - Base aggregate soils analysis and or sieve analysis.
 - Drainage pipe cut sheet or shop drawings for approval.
 - Landscape and Irrigation submittals as per specified products on the plans (if applicable).
- Substitutions:** The Contractor shall submit to owner (7) seven days prior to bid date, all variances for these specifications for approval .
 - The County has up to (4) four days to review and respond.
- Warranties:** The Contractor shall submit all product manufacturer's warranties to City of Sparks prior to completion of project. Contractor shall warranty installation workmanship of

Contractor to hold a valid C25 contractor's license. See Manufacturers Installation Instructions for proper installation. Fall safety use zones shall be laid out by a Certified Playground Safety Inspector prior to placement of concrete footings, curbs, or sidewalks.

Removal of existing (if applicable)

Permanently removed equipment to be disposed of legally by contractor unless otherwise specified by City of Sparks. For bidding purposes include disposal in base bid. All removed footing holes to be backfilled with approved aggregate base material and compacted in 4" lifts to 90% relative compaction.

Inspection

- It is recommended that all play equipment (including correct play equipment installed height), fall safety zones, and fall safety material be inspected by a certified playground safety inspector during all stages of construction.
- Upon completion a Certified Playground Safety Inspector shall inspect equipment for proper installation and compliance with ASTM-1487, (American Society for Testing and Material), CPSP (Consumer Product Safety Commission), National Recreation and Park Association and Public Playground Safety Handbook. Contractor to provide to owners representative a written safety inspection, including pictures, prior to final acceptance.

3. Playground Safety Surfacing

A. BCI Burke 100% EPDM rubber tile (Interlocking tiles)

Maximum fall height: 8' (as specified on the "Playground Improvement Plans")
Size: 24" x 24" x 3-1/4"

Main Color: Beige (75% beige and 25% black)

Wear Area Color: Black (100% black)

Delivery, Storage, and Handling

- Delivery - Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.
- Storage - Store tiles in a dry area prior to installation. Protect tiles from direct sunlight before installation.
- Adhesive: Store adhesive in a dry area at a minimum temperature of 40 degrees
- Handling: Protect materials during handling and installation to prevent damage.

Environmental Requirements:

Air Temperature: The air temperature should be a minimum of 40 degrees F for a minimum of 12 hours before and during installation.

Warranty

- Materials and Workmanship: Playground safety surfacing tiles shall be warranted for defects in materials and workmanship for 5 years from date of completed installation based on normal wear and proper cleaning and maintenance.
- Performance: Playground safety surfacing tiles shall be warranted to meet drop height performance requirements of ASTM F 1292 for 5 years from date of completed installation.

all play equipment for a period of (1) one year starting on the date of accepted substantial completion of the Project.

PART 2 - PRODUCTS

- Description:** Certified resilient rubber tiles 24" x 24". Playground Safety Tiles must meet the Consumer Product Safety Commission (CPSC) and Americans with Disability Act (ADA) requirements as tested by the American Society for Testing and Material (ASTM) methods. All tiles must meet the Head Injury Criteria (HIC) tests for applicable fall heights and are certified by the International Play Equipment Manufacturers Association (IPEMA).
 - Additional features include: made exclusively from re-claimed rubber, water permeable design for dry play surface, 80+ leg, egg carton pattern bottom for greater fall protection, easy urethane adhesive (glue down) installation.

2. Manufacturers: Subject to compliance with requirements, provide products as manufactured:

- Specified Play Equipment: BCI Burke Company
 - Specified Fall Safety: BCI Burke rubber tiles
- BCI Burke local representative:
Bueli Recreation Park and Playground Equipment
Headquarters Location - Sunset Office Building
9900 SW Wilshire Street #200
Portland, OR 97225

PART 3 - EXECUTION

1. Examination of conditions: Contractor to conduct a site visit prior to bid submission. Examine conditions under which all work will be performed. Do not proceed until conditions detrimental to proper and timely completion of work have been satisfactorily corrected and thus meet the manufacturer's instructions and delivery times. Beginning work constitutes acceptance of conditions as satisfactory.

2. Ordering of Products and Materials: Order all necessary products and materials with sufficient lead time that delivery will not delay construction. Within (10) ten working days of bid award contractor to provide an estimated schedule which reflects ordering lead times as well as estimated construction timeline.

3. Site Preparation:

- Remove and excavate materials as necessary to establish required subgrade depths per plans and/or specifications.
- Sub-base to include compacted subgrade (to 90% relative compaction, 4" minimum depth of approved compacted aggregate base (95% relative compaction). Compacted depth of base aggregate to be field observed and verified to a depth as needed to establish the proposed grades underneath a concrete slab that is below the rubber tiles; thicknesses of both materials to be determined by the Contractor based upon site conditions and finished grade requirements. Any discrepancies between grades must be brought to the attention of owner's representative 48 hours prior to starting scope of work. Refer to compaction specifications.

Examination

Examine areas to receive playground safety surfacing tiles. Notify responsible parties if areas are not acceptable. Do not begin installation until unacceptable conditions have been corrected.

Preparation

Prepare subsurface in accordance with manufacturer's instructions to ensure proper support and drainage for playground safety surfacing tiles.

- Notes: Specify subsurface of granular aggregate, concrete, or asphalt. It is critical that a proper subsurface drainage system be constructed or the tile surface may not stay level and may cause damage to surfacing.

Concrete Subsurface:

- Concrete subsurface shall be as specified.
- Apply troweled finish. DO NOT broom finish.
- Ensure concrete is sound with no loose material.
- Ensure concrete is a minimum of 28 days old.
- Power wash existing concrete in accordance with manufacturer's instructions.

Installation

Install interlocking tiles in accordance with manufacturer's instructions at locations indicated.

- Ensure prepared subsurface and tiles are dry and clean.
- Layout tile surface in accordance with manufacturer's instructions.
- Install tiles in single installation session, if possible.
- Do not install less than 1/3 of a full tile or slivers of rubber tiles on edges, if required, change outside edge pattern by cutting one tile in half and placing a larger tile as cut edge tile.

Additional material

Assume wasted material for edge cuts. Supply owner an additional 2% of each tile for each height upon project completion.

Adhesive - See manufacturers Installation Instructions

- Confirm proper concrete temperature prior to adhesive placement.
- Clean concrete surface to manufacturer's specifications prior to placement of adhesives.

4. Concrete Specifications

Orange Book Standards

RELEVANT SECTIONS

- A. 312.00 PCC FLATWORK, CURBS, DITCHES AND SLOPE PAVING
- B. 336.10 PCC SAMPLING AND TESTING
- C. 337.01 COMPOSITION OF MIXTURES
- D. 337.10 PCC STRUCTURES, SLOPE PAVING, FLATWORK AND CURBS.

www.rtcwashoe.com/orangebook

- NOTE: It is the responsibility of the contractor to verify existing subgrade soil depths prior to bid submission. Any discrepancies must be brought to the attention of City of Sparks (7) seven days prior to bid deadline.

4. Installation: Conform strictly to manufacturer's instructions and/or specifications using all appropriate materials, tools, and accessories as required. Use only experienced personnel trained in playground construction (See quality assurance in Part 1 above).

5. Protection: Before construction begins, provide 6' metal security fencing around all play areas. Maintain the fencing until after completion and final approval by project manager and owner. Protect existing concrete, existing asphalt and turf from equipment damage. Replace damaged concrete/asphalt or turf at no expense to owner.

6. Inspection:

- Following the project managers inspection of the completed installation, perform repairs as necessary to meet or exceed requirements for fit and finish and the specifications and guidelines as referenced above.
- It is recommended that all proposed equipment (including correct play equipment installed height), fall safety zones, and fall safety material be inspected by a certified playground safety inspector during all stages of construction.
- Upon completion of construction the contractor is to provide an inspection (with pictures) by a certified playground safety inspector and deliver the inspection to the owner.

7. As-built plans: Provide to project manager (3) three sets of as-built plans indicating the following items (if applicable).

- Trench drain locations, drain inlet locations, drain sleeve location, drain pipe location, drain end location, drain sump location, or any irrigation modifications/installations.
- Take measurements from (2) two fixed points and include the measurements on the as-built plan.

8. Warranty: The Contractor shall warranty that all work performed shall be free of any defects in materials and workmanship. Upon notice in writing, within (1) one year of acceptance of substantial completion, the Contractor shall, at no cost to the Owner, make all necessary repairs or replacements of defective work in question. During this period of warranty, the Owner shall perform normal maintenance and cleaning of the playground safety surfaces.

PART 4 - MATERIAL INSTALLATION

1. Drain System

A. Drainage Pipe (as specified on the plans):

Contractor to show written documentation that all proposed grades have been verified to ensure that the drains have positive drainage away from all play areas.

2. Playground Equipment Delivery and Storage

It is the responsibility of the contractor to ensure that all materials to be properly protected from weather and theft.
Installation

Additional Concrete details:

Joint Cutting

In concrete pad beneath rubber tiles, cut or trowel 1" deep cuts on 7'-8' centers in two directions. Vacuum dust out of cuts prior to placement of filler. Install Sikaflex selfleveling adhesive in joints to prevent water buildup.

Layout

Fall safety use zones shall be identified (as per ASTM standards) and marked for each piece of play equipment prior to forming concrete. Zones shall be identified by a Certified Safety Playground Inspector.

P.C.C. Sidewalk

Sidewalk concrete to be constructed per "P.C.C. Sidewalk " detail notes. See plan set for Sidewalk detail.

Playground Concrete Pad

Concrete pad below playground to be troweled smooth finish.

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L.A. Studio Nevada
the landscape architecture studio

Sparks, NV 89431 (775) 323-2223 www.la.studionevada.com NV RLA #440



Playground Specification Sheet
SILVERTON SHORES PARK
City of Sparks, Parks Department

Washoe Co.

Sparks

No.	Revision Date
LA No:	251-504-00-16
Designed:	DD
Drawn:	GSS
Checked:	RWH
Date:	6/20/17

Sheet

L10

of

16

28-Jun-17 PANEL: L1 LOCATION: METER PEDESTAL

TYPE DESCRIPTION	LOAD	BKR	CIR	A	B	CIR	BKR	LOAD	DESCRIPTION	TYPE
E	IRRIGATION CONTROL	60	20	1	60	2			SPACE	
	SPARE		20	3		0			SPACE	
	SPARE		20	5	0				SPACE	
	SPARE		20	7		0			SPACE	
	SPARE			9	0				SPACE	
	SPARE			11		0			SPACE	
	SPARE			13	0				SPACE	
	SPARE			15		0			SPACE	
	SPARE			17	0				SPACE	
	SPARE			19		0			SPACE	

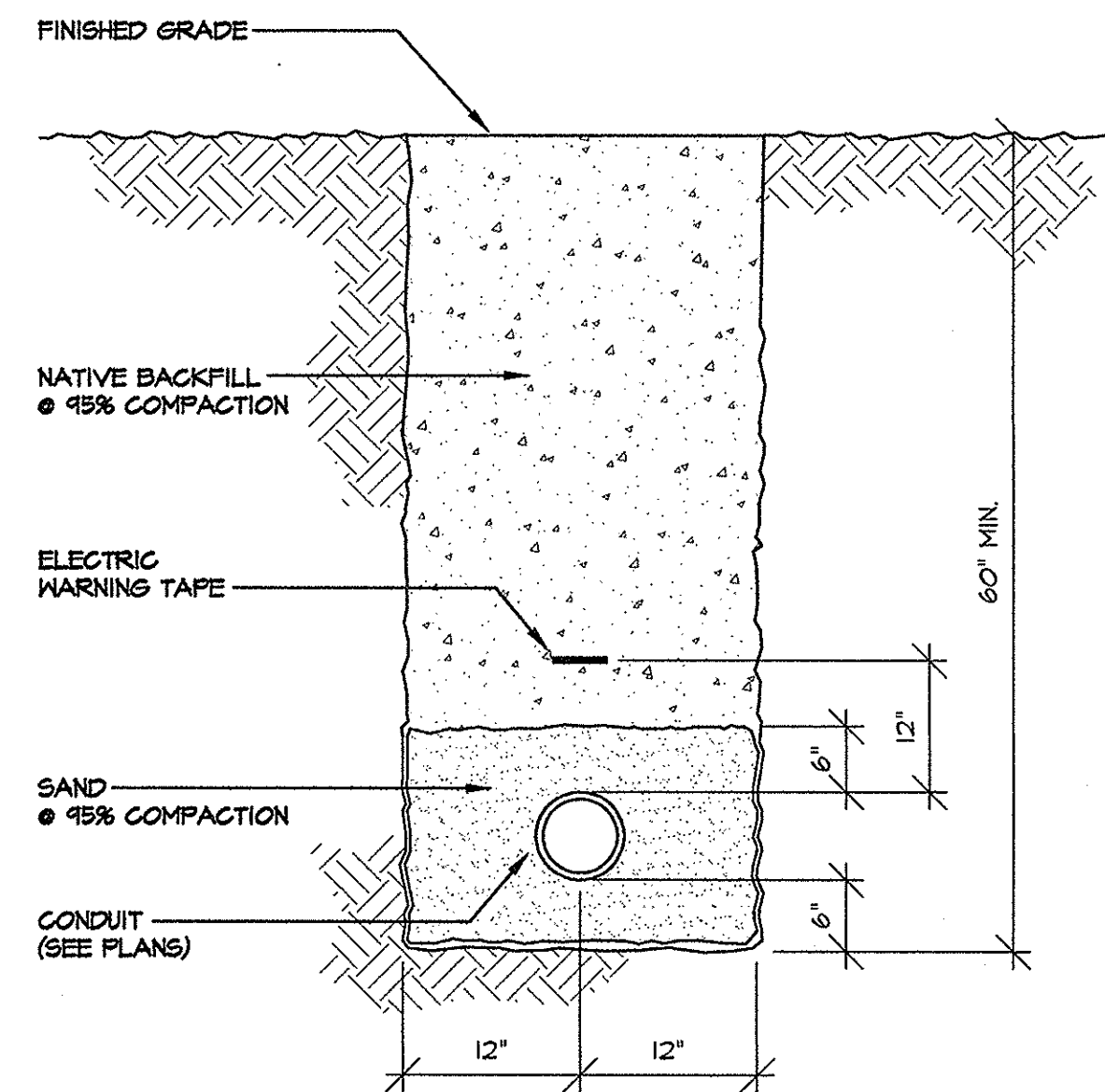
COPPER BUS SIZE:	125		60		0				
VOLTAGE:	240					STANDARD			
PHASE:	1					PEDESTAL			
WIRE:	3					NEMA 3R			
LUGS:	MCB					# OF 1-POLE CIRCUITS	20		
BREAKER AIC RATING:	10K					CONNECTED KVA:	0.1		
NEUTRAL:	100%					CONNECTED AMPS:	0.3		
FEEDER GCPD SIZE:	100					NET KVA:	0.1		
						NET AMPS:	0.3		

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DRAWING SCHEDULE

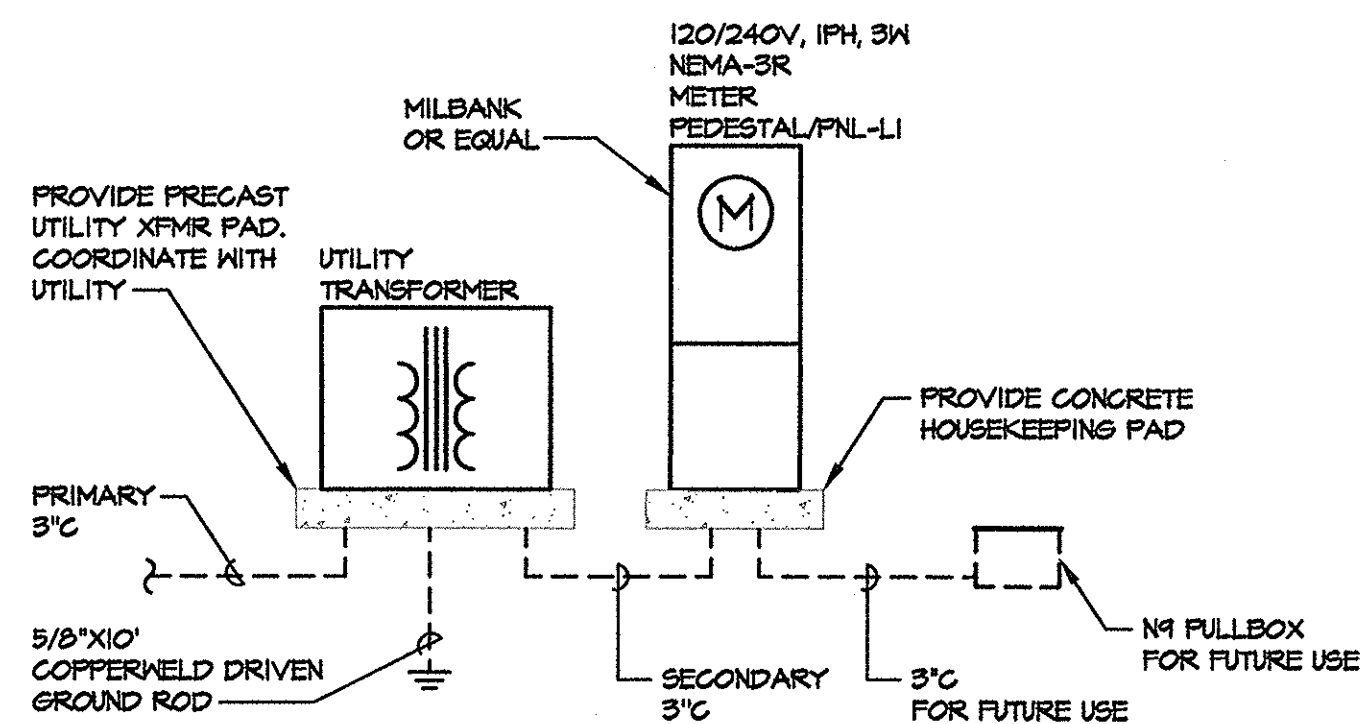
SHEET	DESCRIPTION	QTY
E0	ELECTRICAL LEGEND, ONELINE DIAGRAM, PANEL SCHEDULE & DRAWING SCHEDULE	1
E1	ELECTRICAL SPECIFICATIONS	1
E2	ELECTRICAL SITE PLAN	1
TOTAL SHEETS IN ISSUE:		3

100% BID SET
JUNE 26, 2017



A TYP 24" PRIMARAY TRENCH

SCALE: NONE



B ONELINE DIAGRAM

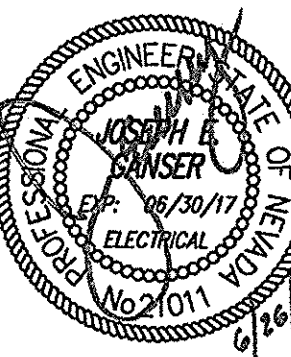
SCALE: NONE

ELECTRICAL LEGEND

AUGUST 2011

	PANELBOARD: SURFACE MOUNTED	A	AMPS
	PANELBOARD: FLUSH MOUNTED	ADA	AMERICANS WITH DISABILITIES ACT
	SWITCHBOARD OR DISTRIBUTION PANEL	AFC	ABOVE FINISHED CEILING
	TRANSFORMER	AFCI	ARC-FAULT CIRCUIT INTERRUPTER
	HANDHOLE	AFB	ABOVE FINISHED FLOOR
	REMOTE METER	AFG	ABOVE FINISHED GRADE
	METERING DEVICE	AHJ	AUTHORITY HAVING JURISDICTION
	REMOTE METER	AIC	AMP INTERRUPTING CAPACITY
	JUNCTION BOX (SIZE AS REQUIRED UNO)	ATS	AUTOMATIC TRANSFER SWITCH
	SHEET NOTE DESIGNATION	AWG	AMERICAN WIRE GAUGE
	REVISION DELTA: NUMBER REPRESENTS REVISION	BC	BARE COPPER
	CONDUIT/RACEWAY IN WALL OR ABOVE CEILING	BKR	BREAKER
	CONDUIT/RACEWAY BELOW GRADE OR BELOW FLOOR	C	CONDUIT/RACEWAY
	CONDUIT/RACEWAY UP	CKT	CIRCUIT
	CONDUIT/RACEWAY DOWN	CLG	CEILING
	BREAK OR RUN CONTINUES	CO	CONDUIT/RACEWAY ONLY
	PRIMARY	CT	CURRENT TRANSFORMER
	SECONDARY	CU	COPPER
	LOW VOLTAGE AND/OR CONTROL WIRING	DB	DISTRIBUTION BOARD
	BRANCH CIRCUIT (WHEN TIC MARKS ARE NOT SHOWN) = (1) PHASE, (1) NEUTRAL AND (1) GROUNDING CONDUCTOR	DDC	DIRECT DIGITAL CONTROLLER
	HOMERUN TO PANELBOARD OR DEVICE	DPDT	DOUBLE-POLE, DOUBLE-THROW
	HOMERUN CIRCUIT DESIGNATION	DPST	DOUBLE-POLE, SINGLE-THROW
	GROUNDING CONDUCTOR (N=1, 2N=2 NEUTRALS, 3N=3 NEUTRALS)	DWG	DRAWING
	PHASE CONDUCTOR(S) PANELBOARD DESIGNATION	ELEC	ELECTRICAL
	HOMERUN CIRCUIT DESIGNATION (3 PHASE CIRCUIT SHOWN)	FLA	FULL LOAD AMPS
	GROUNDING CONDUCTOR (PHASE CONDUCTOR(S) PANELBOARD DESIGNATION)	FFEN	FUSE PER EQUIP. NAMEPLATE
	20 SINGLE POLE CIRCUIT BREAKER	GFI	GROUND FAULT INTERRUPT
	20/2 TWO POLE CIRCUIT BREAKER	GN	GROUND
	20/3 THREE POLE CIRCUIT BREAKER	HOA	HAND-OFF-AUTO SWITCH
	20A ARC FAULT CIRCUIT BREAKER	HP	HORSEPOWER
	20C CONTROLLABLE CIRCUIT BREAKER	HPK	HOUSEKEEPING
	20G GFI CIRCUIT BREAKER	J-BOX	JUNCTION BOX
	L = LIGHTING	K	kcmil (300K = 300 kcmil)
	R = RECEPTACLES	KVA	KILOVOLT AMPS
	E = EQUIPMENT	KW	KILOWATT
	M = MOTOR	LTE	LIGHTING
	MI = LARGEST MOTOR	MCB	MAIN CIRCUIT BREAKER
	K = KITCHEN EQUIP	MCM	THOUSAND CIRCULAR MILS
	H = ELECTRIC HEAT	MFG	MANUFACTURER
	NEMA	MLO	MAIN LUGS ONLY
		MS	MOTOR STARTER
		MSB	MAIN SWITCHBOARD
		MTS	MANUAL TRANSFER SWITCH
		NC	NORMALLY CLOSED
		NEC	NATIONAL ELECTRICAL CODE
		NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
		NO	NORMALLY OPEN
		NTS	NOT TO SCALE
		NVE	NV ENERGY
		P	POLE
		PH	PHASE
		PNL	PANEL
		PWR	POWER
		SE	SERVICE ENTRANCE
		SPD	SURGE PROTECTION DEVICE
		SPDT	SINGLE-POLE, DOUBLE-THROW
		SPST	SINGLE-POLE, SINGLE-THROW
		SN	SWITCH
		TEL	TELECOM
		TTB	TELEPHONE TERMINATION BOARD
		TYP	TYPICAL
		UL	UNDERWRITER'S LABORATORY
		UNO	UNLESS NOTED OTHERWISE
		UNSW	UNSWITCHED
		UPS	UNINTERRUPTED POWER SUPPLY
		V	VOLTS
		VA	VOLT AMPS
		W	WATTS
		WP	WEATHER PROOF
		XFMR OR XF	TRANSFORMER

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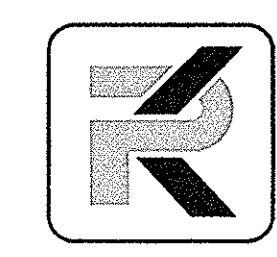


No.	Revision Date

SECTION 16000 ELECTRICAL SPECIFICATIONS

Table with columns for ITEM, DESCRIPTION, ITEM, DESCRIPTION, ITEM, DESCRIPTION, ITEM, DESCRIPTION. It contains detailed electrical specifications for various components including fire alarms, anchors, and wiring.

BID SET

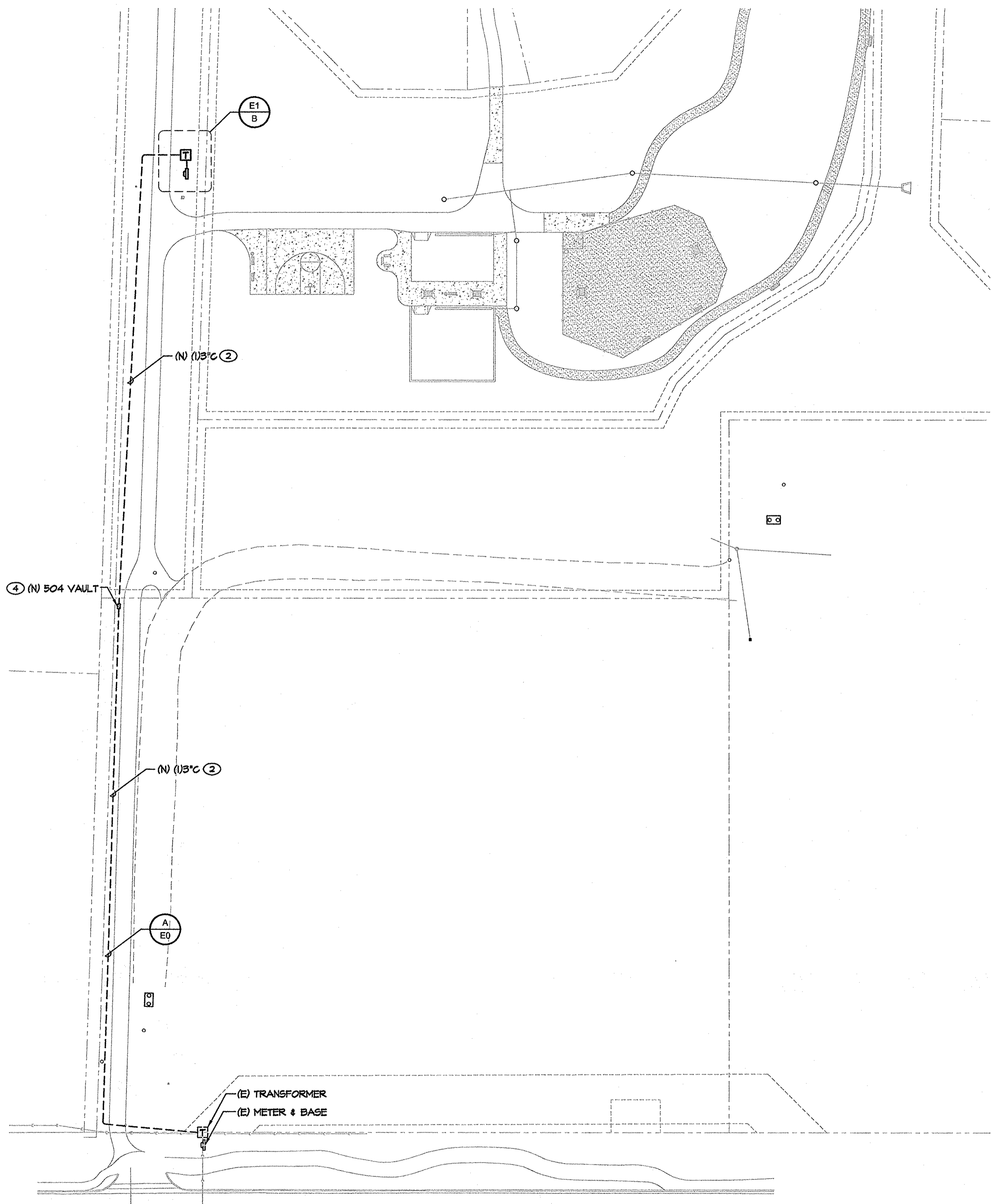


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Revision table with columns for No. and Revision Date. Includes fields for LA No., Drawn, Checked, CAD File, and Date.

Vertical banner for SILVERTON SHORES PARK City of Sparks, Parks Department. Includes the Nevada State Engineer's seal.



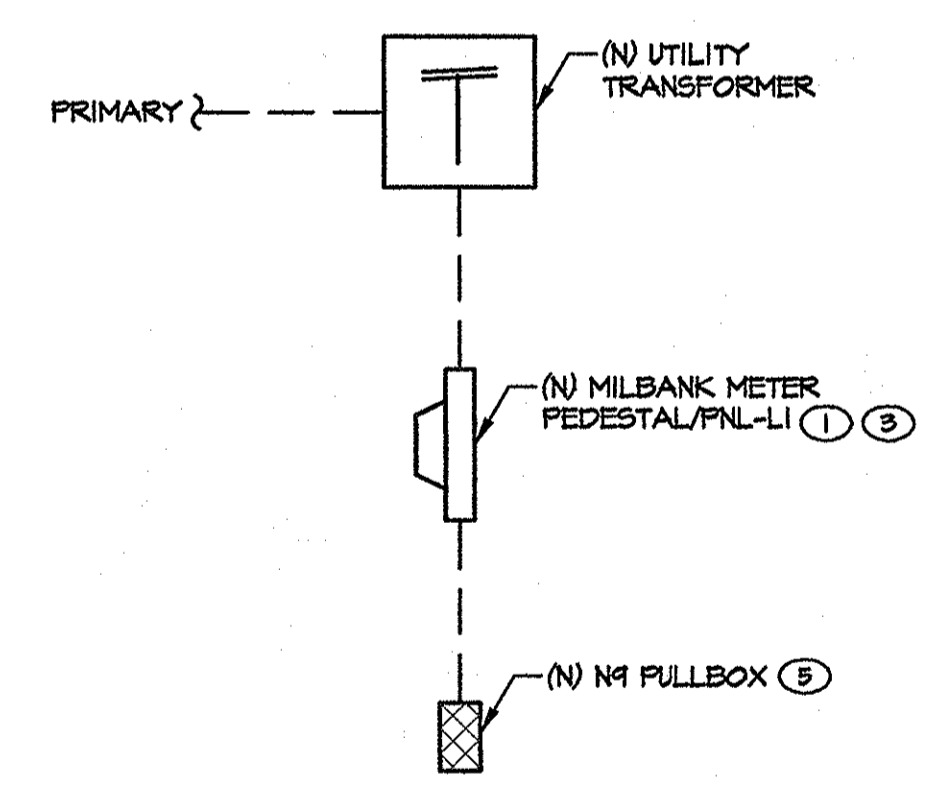
A
E2 ELECTRICAL SITE PLAN
SCALE: 1" = 40'-0"

GENERAL NOTES

1. (E) INDICATES EXISTING EQUIPMENT, (N) INDICATES NEW EQUIPMENT UNLESS NOTED OTHERWISE.
2. SEE ON-LINE DIAGRAM FOR CONDUIT, WIRE SIZES AND EQUIPMENT REQUIREMENTS.
3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH APPLICABLE UTILITY COMPANY'S DRAWINGS AND REPRESENTATIVES FOR DETERMINING THE EXACT RESPONSIBILITY OF EACH PARTY.
4. SEE NV ENERGY DRAWINGS FOR ALL WORK REQUIRED. CONTRACTOR SHALL BE RESPONSIBLE FOR INCLUDING ALL WORK REQUIRED IN BID. COORDINATE WITH NV ENERGY.
5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CALL 1-800-227-2600 FOR LOCATES PRIOR TO DIGGING. IT IS ALSO THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL NON-UTILITY UNDERGROUND ITEMS.
6. THE MAXIMUM NUMBER OF CONDUIT BENDS SHOULD NOT BE GREATER THAN 270 DEGREES BETWEEN PULLING STRUCTURES. THIS INCLUDES THE AGGREGATE OF ALL HORIZONTAL AND VERTICAL CHANGES.
7. ALL CONDUIT, INNERDUCT, PULLBOXES AND VAULTS SHALL BE LABELED PER THE SPECIFICATIONS.
8. EACH CONDUIT AND INNERDUCT SHALL BE PROVIDED WITH A 1250 LBS. PULL ROPE.

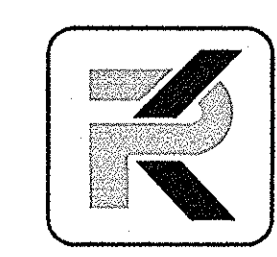
SHEET NOTES

1. IRRIGATION CONTROL TO BE MOUNTED AND SECURED WITHIN THE PEDESTAL. COORDINATE WITH THE LANDSCAPE ARCHITECT FOR IRRIGATION CONTROLLER DETAILS.
2. COORDINATE WITH UTILITIES FOR TRENCHING ROUTE.
3. MILBANK CP3B "POWER TRANSFER" SERIES PEDESTAL. COORDINATE WITH NV ENERGY FOR SPECIFIC REQUIREMENTS (BYPASS MEANS, METER SOCKET, ETC.). COORDINATE EXACT STUB-UP AND PEDESTAL LOCATION WITH CIVIL PRIOR TO CONSTRUCTION.
4. COORDINATE WITH NV ENERGY FOR VAULT TYPE AND REQUIREMENTS FOR PRIMARY SIDE OF SERVICE. SEE NV ENERGY DRAWINGS.
5. RUN 3" FROM PEDESTAL TO N# PULLBOX FOR FUTURE USE.



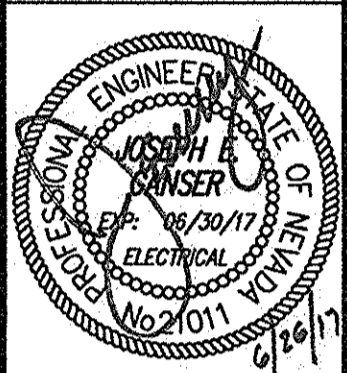
B
E2 ENLARGED METER PEDESTAL LOCATION
SCALE: 1/8" = 1'-0"

BID SET



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1552 C Street



Electrical Site Plan
SILVERTON SHORES PARK
City of Sparks, Parks Department
Washoe Co.
Nevada

No.	Revision Date

LA No:	257-504-08-16
Designed:	HWO
Drawn:	TPT
Checked:	JEG
CAD File:	L1-257-504
Date:	6/26/17

Sheet
E2
of
3