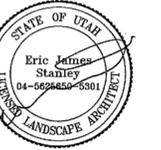


ALL DRAWINGS ARE THE PROPERTY OF COLONY DESIGN COLLECTIVE. ANY REPRODUCTION OR DISTRIBUTION OF THESE DRAWINGS WITHOUT THE WRITTEN PERMISSION OF COLONY DESIGN COLLECTIVE IS STRICTLY PROHIBITED. THE CLIENT ASSUMES ALL RESPONSIBILITY FOR THE ACCURACY OF THE INFORMATION PROVIDED. COLONY DESIGN COLLECTIVE SHALL NOT BE RESPONSIBLE FOR ANY DAMAGE TO PERSONS OR PROPERTY CAUSED BY THE USE OF THESE DRAWINGS. THE CLIENT SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE CLIENT SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE DRAWINGS FROM UNAUTHORIZED USE. THE CLIENT SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE DRAWINGS FROM UNAUTHORIZED REPRODUCTION OR DISTRIBUTION. THE CLIENT SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE DRAWINGS FROM UNAUTHORIZED ALTERATION. THE CLIENT SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE DRAWINGS FROM UNAUTHORIZED DESTRUCTION. THE CLIENT SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE DRAWINGS FROM UNAUTHORIZED REMOVAL. THE CLIENT SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE DRAWINGS FROM UNAUTHORIZED COPYING. THE CLIENT SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE DRAWINGS FROM UNAUTHORIZED PHOTOCOPYING. THE CLIENT SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE DRAWINGS FROM UNAUTHORIZED SCANNING. THE CLIENT SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE DRAWINGS FROM UNAUTHORIZED DIGITIZATION. THE CLIENT SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE DRAWINGS FROM UNAUTHORIZED REPRODUCTION OR DISTRIBUTION. THE CLIENT SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE DRAWINGS FROM UNAUTHORIZED ALTERATION. THE CLIENT SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE DRAWINGS FROM UNAUTHORIZED DESTRUCTION. THE CLIENT SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE DRAWINGS FROM UNAUTHORIZED REMOVAL. THE CLIENT SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE DRAWINGS FROM UNAUTHORIZED COPYING. THE CLIENT SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE DRAWINGS FROM UNAUTHORIZED PHOTOCOPYING. THE CLIENT SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE DRAWINGS FROM UNAUTHORIZED SCANNING. THE CLIENT SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE DRAWINGS FROM UNAUTHORIZED DIGITIZATION.



STAMP

CONSULTANT

JC Engineering

231 West 800 South, Suite A, Salt Lake City, UT 84101
 Office (801) 349-2984 Call (801) 655-8575



OWNER

Lehi City Corporation

153 North 100 East
 Lehi, Utah 84043

PROJECT TITLE

Sunrise Summit Park

SHEET TITLE

**SITE DETAILS
 BRIDGE**

REVISIONS

MARK | DATE | DESCRIPTION

ISSUE DATE 4 AUG 2014
 ISSUE TITLE 100% CD
 SCALE AS NOTED
 DRAWN BY ASB
 CHECKED BY PJB

LC-SSP

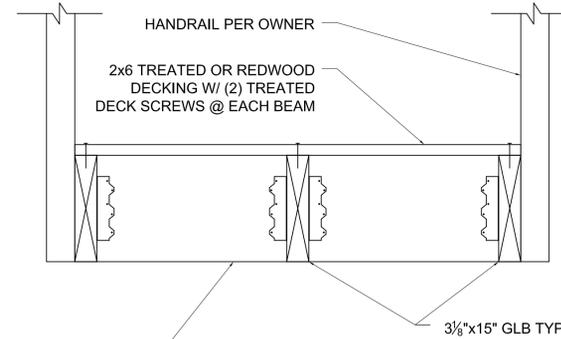
L430



PEDESTRIAN BRIDGE RENDERING

Scale : N.T.S.

4
L430

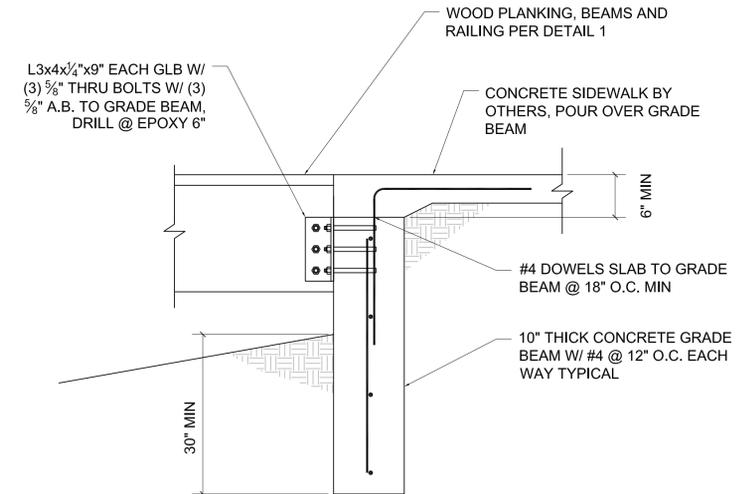


FULL HEIGHT BLOCKING AT MID-SPAN W/ SIMPSON L90 EACH SIDE EACH END

PEDESTRIAN WALKWAY CROSS SECTION

Scale : N.T.S.

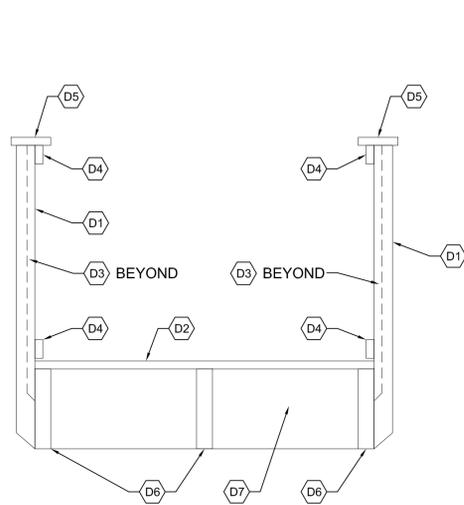
3
L430



PEDESTRIAN WALKWAY END SECTION

Scale : N.T.S.

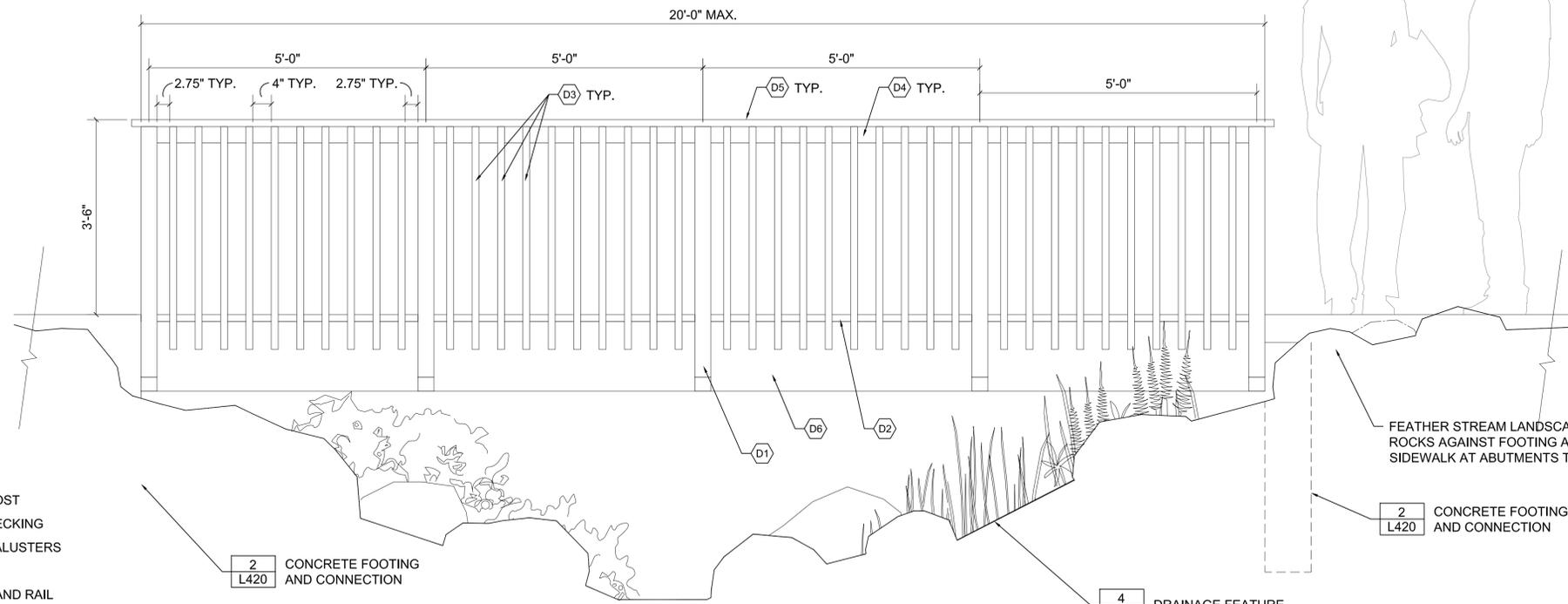
2
L430



SECTION A-A

LEGEND

- D1 4x4 REDWOOD POST
- D2 2x6 REDWOOD DECKING
- D3 2x2 REDWOOD BALUSTERS
- D4 2x4 REDWOOD
- D5 2x8 REDWOOD HAND RAIL
- D6 GLULAM BEAM
- D7 BLOCKING PER STRUCTURAL



ELEVATION

WOODEN BRIDGE

Scale : 3/4" = 1'-0"

1
L430





STAMP

CONSULTANT



JOHANSON ENGINEERING
CIVIL · PLANNING · SURVEYING
909 EAST 4500 SOUTH SUITE C
SALT LAKE CITY, UTAH
PHONE (801) 859-1862 FAX (801) 495-2547

OWNER

Lehi City Corporation
153 North 100 East
Lehi, Utah 84043

PROJECT TITLE

Sunrise Summit Park

SHEET TITLE

**CIVIL PROJECT
NOTES**

REVISIONS

MARK | DATE | DESCRIPTION

ISSUE DATE 04 AUG 2014
ISSUE TITLE 100% CD
SCALE AS NOTED
DRAWN BY -
CHECKED BY -

LC-TP

C100

CIVIL PROJECT NOTES

GENERAL NOTES

- ALL MATERIALS AND CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH ALL AND CURRENT APPLICABLE LAWS, RULES, REGULATIONS, ORDINANCES, OSHA REQUIREMENTS, STANDARDS AND SPECIFICATIONS WHETHER OR NOT ANY SPECIFIC REFERENCE IS MADE TO SUCH IN THESE PLANS AND SPECIFICATIONS. THE CONTRACTOR SHALL BE PROPERLY LICENSED IN THE STATE OF UTAH TO PERFORM ALL OF THE WORK DESCRIBED IN THESE CONTRACT DOCUMENTS. SUCH LICENSING SHALL REMAIN IN EFFECT CONTINUOUSLY THROUGHOUT THE ENTIRETY OF THIS PROJECT INCLUDING FROM TIME OF BID SUBMISSION THROUGH PROJECT COMPLETION AND WARRANTY PERIOD. THE CONTRACTOR SHALL CARRY APPROPRIATE INSURANCE, PERFORMANCE AND PAYMENT BONDS AS REQUIRED.
- ALL WORK SHALL CONFORM TO THESE PLANS AND TO THE REQUIREMENTS OF THE PROJECT SPECIFICATIONS. IN THE EVENT THAT ANY CONFLICTS ARE DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING, AND THE ENGINEER, AT HIS SOLE DISCRETION, SHALL DETERMINE WHICH REQUIREMENTS GOVERN. THE CONTRACTOR SHALL KEEP ONE RECORD COPY OF ALL SPECIFICATIONS, DRAWINGS, ADDENDA, MODIFICATIONS, AND SHOP DRAWINGS AT THE SITE IN GOOD ORDER AND ANNOTATED TO SHOW ALL CHANGES MADE DURING THE CONSTRUCTION PROCESS. THESE SHALL BE AVAILABLE TO THE ENGINEER AND SHALL BE DELIVERED TO HIM FOR THE OWNER UPON COMPLETION OF THE PROJECT.
- THE CONTRACTOR SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH ALL ASPECTS OF THE PLANS AND DOCUMENTS, PERFORM A SITE VISIT TO SATISFY HIMSELF AS TO THE SITE CONDITIONS, ATTEND ALL PRECONSTRUCTION AND CONSTRUCTION MEETINGS, AND THOROUGHLY SATISFY HIMSELF AS TO THE TRUE MEANING AND INTENTION OF THIS CONTRACT. THE CONTRACTOR SHALL BE COMPETENT AND EXPERIENCED TO PERFORM ALL WORK REQUIRED. ALL WORK SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.
- THE CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS THE OWNER AND THE ENGINEER AND THEIR AGENTS AND EMPLOYEES FROM AND AGAINST ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES INCLUDING ATTORNEY'S FEES ARISING OUT OF OR RESULTING FROM THE PERFORMANCE OF THE WORK, PROVIDED THAT ANY SUCH CLAIM, DAMAGE, LOSS OR EXPENSES IS ATTRIBUTABLE TO BODILY INJURY, SICKNESS, DISEASE OR DEATH, OR TO INJURY TO OR DESTRUCTION OF TANGIBLE PROPERTY (OTHER THAN THE WORK ITSELF) INCLUDING THE LOSS OF USE RESULTING THEREFROM, AND IS CAUSED IN WHOLE OR IN PART BY ANY NEGLIGENT ACT OR OMISSION OF THE CONTRACTOR, ANY SUBCONTRACTOR, ANYONE DIRECTLY OR INDIRECTLY EMPLOYED BY ANY OF THEM OR ANYONE FOR WHOM ACTS ANY OF THEM MAY BE LIABLE, REGARDLESS OF WHETHER OR NOT IT IS CAUSED IN PART BY A PARTY INDEMNIFIED HEREUNDER. IN ANY AND ALL CLAIMS AGAINST THE OWNER OR THE ENGINEER OR ANY OF THEIR AGENTS OR EMPLOYEES BY ANY EMPLOYEE OF THE CONTRACTOR, AND SUBCONTRACTOR, ANYONE DIRECTLY OR INDIRECTLY EMPLOYED BY ANY OF THEM OR ANYONE FOR WHOM ACTS ANY OF THEM MAY BE LIABLE, SAID INDEMNIFICATION OBLIGATION SHALL NOT BE LIMITED IN ANY WAY BY ANY LIMITATION ON THE AMOUNT OR TYPE OF DAMAGES, COMPENSATION OR BENEFITS PAYABLE BY OR FOR THE CONTRACTOR OR ANY SUBCONTRACTOR UNDER ANY SUCH CLAIM, AND IS CAUSED IN WHOLE OR IN PART BY ANY NEGLIGENT ACT OR OMISSION OF THE CONTRACTOR, ANY SUBCONTRACTOR, ANYONE DIRECTLY OR INDIRECTLY EMPLOYED BY ANY OF THEM OR ANYONE FOR WHOM ACTS ANY OF THEM MAY BE LIABLE, REGARDLESS OF WHETHER OR NOT IT IS CAUSED IN PART BY A PARTY INDEMNIFIED HEREUNDER. IN ANY AND ALL CLAIMS AGAINST THE OWNER OR THE ENGINEER OR ANY OF THEIR AGENTS OR EMPLOYEES BY ANY EMPLOYEE OF THE CONTRACTOR, AND SUBCONTRACTOR, ANYONE DIRECTLY OR INDIRECTLY EMPLOYED BY ANY OF THEM OR ANYONE FOR WHOM ACTS ANY OF THEM MAY BE LIABLE, SAID INDEMNIFICATION OBLIGATION SHALL NOT BE LIMITED IN ANY WAY BY ANY LIMITATION ON THE AMOUNT OR TYPE OF DAMAGES, COMPENSATION OR BENEFITS PAYABLE BY OR FOR THE CONTRACTOR OR ANY SUBCONTRACTOR UNDER ANY SUCH CLAIM, AND IS CAUSED IN WHOLE OR IN PART BY ANY NEGLIGENT ACT OR OMISSION OF THE CONTRACTOR, ANY SUBCONTRACTOR, ANYONE DIRECTLY OR INDIRECTLY EMPLOYED BY ANY OF THEM OR ANYONE FOR WHOM ACTS ANY OF THEM MAY BE LIABLE, REGARDLESS OF WHETHER OR NOT IT IS CAUSED IN PART BY A PARTY INDEMNIFIED HEREUNDER.
- THE CONTRACTOR WARRANTS AND GUARANTEES TO THE OWNER AND ENGINEER THAT ALL MATERIAL AND EQUIPMENT USED IN THE PERFORMANCE OF THIS WORK SHALL BE NEW UNLESS OTHERWISE SPECIFIED AND THAT ALL WORK SHALL BE OF GOOD QUALITY AND FREE FROM FAULTS OR DEFECTS FOR A PERIOD OF ONE YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION. IF REQUIRED BY THE ENGINEER, THE CONTRACTOR SHALL FURNISH SATISFACTORY EVIDENCE AS TO THE KIND AND QUALITY OF MATERIALS AND EQUIPMENT. ALL MATERIALS AND EQUIPMENT SHALL BE APPLIED, INSTALLED, CONNECTED, ERECTED, USED, CLEANED AND MAINTAINED IN ACCORDANCE WITH THE INSTRUCTIONS OF THE APPLICABLE MANUFACTURER, FABRICATOR OR PROCESSOR, EXCEPT AS OTHERWISE PROVIDED IN THE PLANS AND DOCUMENTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS, LICENSES AND FEES REQUIRED FOR THE PERFORMANCE AND COMPLETION OF THE WORK AND SHALL ENSURE THAT ALL WORK IS PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF SAID PERMITS AND LICENSES. THE CONTRACTOR SHALL PROVIDE ALL CONSTRUCTION SIGNAGE, BARRICADING AND TRAFFIC CONTROL IN CONFORMANCE TO THE UTAH DEPARTMENT OF TRANSPORTATION TRAFFIC CONTROL STANDARDS AND TO THE MOST RECENT EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. THE CONTRACTOR SHALL FURNISH ALL MATERIALS, EQUIPMENT, LABOR, TRANSPORTATION, CONSTRUCTION EQUIPMENT AND MACHINERY, TOOLS, APPLIANCES, FUEL, POWER, LIGHT, HEAT, TELEPHONE, WATER, SANITARY FACILITIES, AND ALL OTHER FACILITIES AND INCIDENTALS NECESSARY FOR THE EXECUTION, TESTING, INITIAL OPERATION AND COMPLETION OF THE WORK.
- THE CONTRACTOR SHALL AT ALL TIMES BE RESPONSIBLE FOR PROVIDING DUST, MUD, AND EROSION CONTROL, AND PROPER DRAINAGE. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROPERLY HANDLE AND DISPOSE OF ALL CONSTRUCTION WATER. THE CONTRACTOR SHALL LIMIT TRAVEL ON THE PROJECT SITE TO ROADWAYS ONLY, EXCEPT WHERE CONSTRUCTION SPECIFICALLY REQUIRES TRAVEL ELSEWHERE. ANY DAMAGE CAUSED BY SUCH UNAUTHORIZED TRAVEL SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE AND TO THE SATISFACTION OF THE OWNER OF THE PROPERTY PARCEL. THE CONTRACTOR SHALL AT ALL TIMES KEEP THE PREMISES FREE FROM ACCUMULATIONS OF WASTE MATERIAL, RUBBISH AND OTHER DEBRIS RESULTING FROM THE WORK. EQUIPMENT AND CONSTRUCTION MATERIALS, ETC., SHALL BE STORED ONSITE ONLY AT THE SATISFACTION OF THE OWNER OF THE PROPERTY PARCEL WHEREON THEY ARE STORED. AT THE COMPLETION OF THE WORK, ALL WASTE MATERIALS, RUBBISH AND DEBRIS SHALL BE REMOVED FROM THE PREMISES AS WELL AS ALL TOOLS, CONSTRUCTION EQUIPMENT AND MACHINERY, AND SURPLUS MATERIALS. THE CONTRACTOR SHALL RESTORE TO THEIR ORIGINAL CONDITION THOSE PORTIONS OF THE SITE NOT DESIGNATED FOR ALTERATION BY THE PLANS AND DOCUMENT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATELY SCHEDULING ALL REQUIRED TESTING AND INSPECTIONS A MINIMUM OF 48 HOURS IN ADVANCE. IN THE EVENT THAT TESTING AND INSPECTION SERVICES ARE FURNISHED BY THE OWNER, SUCH SERVICES SHALL BE PAID FOR BY THE OWNER; HOWEVER, ANY RETESTING/REINSPECTION THAT IS REQUIRED AS A RESULT OF INSUFFICIENT OR DEFECTIVE WORK SHALL BE CONDUCTED AT THE CONTRACTOR'S EXPENSE. NEITHER OBSERVATIONS BY THE ENGINEER NOR INSPECTIONS, TESTS OR APPROVALS BY PERSONS OTHER THAN THE CONTRACTOR SHALL RELIEVE THE CONTRACTOR FROM HIS OBLIGATIONS TO PERFORM THE WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE PLANS AND DOCUMENTS.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR JOBSITE CONDITIONS THROUGHOUT THE PROJECT, INCLUDING SUBSURFACE CONDITIONS AND UTILITY LOCATION. WARD ENGINEERING GROUP ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITY LOCATIONS. ANY EXISTING UTILITIES OR OTHER IMPROVEMENTS SHOWN ON THE PLANS HAVE BEEN DERIVED FROM FIELD INVESTIGATIONS AND/OR AVAILABLE RECORD INFORMATION. THE CONTRACTOR SHALL FIELD VERIFY EXISTING UTILITY LOCATIONS AND INVERT ELEVATIONS OF EXISTING MANHOLES PRIOR TO CONSTRUCTING ANY NEW UTILITY. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING IMPROVEMENTS WHICH ARE TO REMAIN IN PLACE. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ANY DAMAGE TO EXISTING FACILITIES RESULTING DIRECTLY OR INDIRECTLY FROM HIS OPERATIONS, WHETHER OR NOT SUCH FACILITIES ARE SHOWN IN THESE PLANS. ALL IMPROVEMENTS DAMAGED BY THE CONTRACTOR'S OPERATION SHALL BE EXPEDITIOUSLY REPAIRED OR RECONSTRUCTED TO THE ENGINEER'S SATISFACTION AT THE CONTRACTOR'S EXPENSE WITHOUT ADDITIONAL COMPENSATION. NO EXCAVATION OF ANY NATURE SHALL BE PERFORMED WITHOUT FIRST CONTACTING "BLUE STAKES" AT LEAST 48 HOURS PRIOR TO SUCH EXCAVATION.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO ASSURE SOUND EXCAVATION AND GRADING PRACTICES. FOR ALL EXCAVATIONS EXCEEDING A DEPTH OF 4 FEET, THE CONTRACTOR SHALL PROVIDE APPROPRIATE SHORING, BRACING, SLOPING OR OTHER APPROPRIATE PROVISIONS AS SPECIFIED BY OSHA THAT ARE NECESSARY TO PROTECT THE SAFETY OF THOSE AT THE SITE. ALL OPEN TRENCHES MUST BE PROPERLY COVERED AT THE END OF WORK EACH DAY. HARD HATS SHALL BE WORN BY ALL PERSONS AT THE SITE. THE CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH THE CONDITIONS AND RECOMMENDATIONS OF THE GEOTECHNICAL INVESTIGATION REPORT, PREPARED FOR THIS SITE AND IN CONJUNCTION WITH THIS PROJECT.
- ALL SPECIFICATIONS, DRAWINGS AND COPIES THEREOF FURNISHED BY THE ENGINEER SHALL REMAIN HIS PROPERTY. THEY SHALL NOT BE USED ON ANOTHER PROJECT AND, WITH EXCEPTION OF THOSE SETS WHICH HAVE BEEN SIGNED IN CONNECTION WITH THE EXECUTION OF THE AGREEMENT, SHALL BE RETURNED TO THE ENGINEER UPON REQUEST AT COMPLETION OF THE PROJECT.
- CONTRACTOR SHALL UTILIZE "BEST MANAGEMENT" PRACTICES FOR STORM WATER POLLUTION PREVENTION. CONTRACTOR SHALL BE RESPONSIBLE FOR THE DEVELOPMENT AND COMPLIANCE TO AN APPROVED STORM WATER POLLUTION PREVENTION PLAN (SWPPP).

CONSTRUCTION NOTES

GENERAL REQUIREMENTS

- CONTRACTOR WILL COORDINATE THE IMPROVEMENTS SHOWN IN THE CIVIL IMPROVEMENT PLANS WITH ALL OTHER DISCIPLINES IN THE ARCHITECTURAL DESIGN PACKAGE. IN CASE OF CONFLICT BETWEEN DISCIPLINES, THE CONTRACTOR SHALL NOTIFY ENGINEER/ARCHITECT IMMEDIATELY.
- PRIOR TO ABANDONMENT AND DISCONNECTION OF ANY EXISTING UTILITY SHOWN IN THESE PLANS, CONTRACTOR SHALL COORDINATE WITH THE OWNER THE SHUTDOWN PROCEDURES AND THE SCHEDULE FOR SHUTDOWN. CONTRACTOR WILL ENSURE THAT UTILITY SERVICE TO OTHER AREAS OF THE AVIARY, INCLUDING LANDSCAPING AND BUILDINGS IS NOT UNDULY INTERRUPTED.
- CONTRACTOR IS TO REVIEW THE SOIL REPORT FOR THIS PROJECT AND MAKE NOTE OF THE GROUND WATER ELEVATION IN THE CONSTRUCTION ZONES. DEWATERING OF SUBSOIL MAY BE NECESSARY TO ACCOMMODATE THE CONSTRUCTION OF UTILITIES AND STRUCTURES. IF DEWATERING IS NECESSARY, CONTRACTOR SHALL SUBMIT PLANS FOR SUCH, ADDRESSING SETTLING OF SUSPENDED SOLIDS IN THE PUMPED WATER PRIOR TO DISCHARGE TO THE STORM DRAIN SYSTEM.

- CONTRACTOR SHALL STERILIZE THE SUBGRADE BENEATH PROPOSED NEW PAVING AND WALKWAYS. CONTRACTOR SHALL SUBMIT MEANS AND METHODS FOR APPROVAL PRIOR TO IMPLEMENTATION.
- THE CONTRACTOR IS RESPONSIBLE FOR INDEPENDENT QUALITY CONTROL TESTING OF THE PROPOSED IMPROVEMENTS. THE CONTRACTOR SHALL RETAIN THE SERVICES OF AN INDEPENDENT QUALITY CONTROL AGENCY FOR ALL TESTING AS REQUIRED IN THESE PLANS. THE NUMBER AND TYPE OF TESTS SHALL BE PER THESE DRAWINGS, THE PROJECT SPECIFICATIONS AND APWA STANDARD SPECIFICATIONS. THE OWNER RESERVES THE RIGHT TO CONDUCT ADDITIONAL TESTING FOR QUALITY ASSURANCE OF THE INFRASTRUCTURE INSTALLED.
- ALL UTILITY PIPING SHALL HAVE WARNING TAPE INSTALLED 12" MIN. ABOVE AND ALONG THE ENTIRE LENGTH, INCLUDING SERVICE LATERAL. TAPE SHALL BE LABELED ACCORDING TO UTILITY.
- THE OPEN ENDS OF ALL PIPELINES UNDER CONSTRUCTION SHALL BE COVERED AND EFFECTIVELY SEALED AT THE END OF EACH DAY'S WORK.
- THE LOCATION OF THE STUB ENDS OF ALL LATERALS SHALL BE MARKED IN THE FIELD USING A 2" X 4" POST EXTENDING FROM THE END OF THE LATERAL TO A MINIMUM OF THREE FEET ABOVE THE GROUND SURFACE. THE 2" X 4" POST SHALL BE PAINTED USING GREEN PAINT FOR SEWER, BLUE PAINT FOR WATER, RED FOR POWER, YELLOW FOR GAS, AND ORANGE FOR COMMUNICATIONS. RECORD DRAWINGS SHALL BE MAINTAINED AT THE PROJECT SITE SHOWING ACCURATE LOCATIONS OF ALL LATERAL CONNECTIONS MEASURED FROM THE NEAREST MANHOLE AND ALL LATERAL STUBS MEASURED FROM THE NEAREST PROPERTY LINE.

CLEARING AND GRUBBING

- REMOVE AND DISPOSE OF TREES, STUMPS, LOGS, LIMBS, STICKS, VEGETATION, DEBRIS, AND OTHER MATERIAL ON THE NATURAL GROUND SURFACE.
- DISPOSE OF ALL MATERIAL OFF THE PROPERTY TO A FACILITY LICENSED TO ACCEPT THE MATERIAL TYPE.
- CONTRACTOR SHALL REMOVE ALL TOP SOIL WITHIN THE AREA OF CONSTRUCTION. STOCKPILE OR REMOVE FROM SITE PER OWNER INSTRUCTIONS.

WATER IMPROVEMENT REQUIREMENTS

- ALL WATER MAINS AND APPURTENANCES, SHALL BE DESIGNED, CONSTRUCTED, DISINFECTED, TESTED, AND PLACED IN SERVICE IN ACCORDANCE WITH THIS PLAN, ALL APPLICABLE LAWS, RULES, REGULATIONS, ORDINANCES, AND REQUIREMENTS INCLUDING, BUT NOT LIMITED TO, THE REQUIREMENTS OF OSHA, THE STATE DIVISION OF DRINKING WATER, AND LEHI CITY.
- ALL MATERIALS WHICH MAY CONTACT THE DRINKING WATER SHALL BE ANSI CERTIFIED AS MEETING NSF STANDARD 61.
- WATER MAINS SHALL BE DUCTILE IRON CLASS 52 PIPE AND SHALL MEET ALL REQUIREMENTS FOR APWA 33 05 05 AND SHALL BE TESTED ACCORDING TO APWA 33 08 00, PRESSURE TESTING AND DISINFECTION; AND IN ACCORDANCE WITH THE REQUIREMENTS OF SLC PUBLIC UTILITIES, OSHA, AND THE UTAH DIVISION OF DRINKING WATER.
- ALL BURIED DI (DUCTILE IRON) PIPES, VALVES AND FITTINGS SHALL BE POLY-WRAPPED AND THE NUTS GREASED IN ACCORDANCE WITH AWWA C105.
- ALL WATER DI (DUCTILE IRON) PIPES, VALVES AND FITTINGS SHALL HAVE PORTLAND CEMENT MORTAR LINING, OR ENGINEER APPROVED EQUAL.
- WATER LATERALS SHALL BE POLYETHYLENE (PE) PE3408, AWWA C901, SDR-7 UNLESS OTHERWISE INDICATED ON THE PLANS. INSTALLATION AND TESTING SHALL BE PERFORMED IN ACCORDANCE WITH AWWA M55. DISINFECTION SHALL BE PERFORMED IN ACCORDANCE WITH AWWA C651.
- WATER MAINS AND LATERALS SHALL BE TESTED ACCORDING TO APWA 33 08 00 TO INCLUDE, PRESSURE TESTING AND DISINFECTION; AND IN ACCORDANCE WITH THE REQUIREMENTS OF SLC PUBLIC UTILITIES, OSHA, AND THE UTAH DIVISION OF DRINKING WATER.
- CONTRACTOR SHALL NOTIFY SALT LAKE CITY PUBLIC UTILITIES 48 HOURS IN ADVANCE OF MAKING ANY CONNECTIONS TO WATER LINES.
- IF POOR SOILS WITH A BEARING CAPACITY OF LESS THAN 1,000 PSF ARE ENCOUNTERED WHERE A THRUST BLOCK IS REQUIRED, THEN THE THRUST BLOCK SHALL BE REDESIGNED BY THE ENGINEER. THE REDESIGNED THRUST BLOCK SHALL NOT BE PLACED UNTIL THE ENGINEER HAS APPROVED OF THE REDESIGN.
- ANY PROPOSED CONNECTION TO EXISTING PIPELINES, OR ANY NON-FLANGED FITTING OR VALVE IS REQUIRED TO BE RESTRAINED OR THRUST BLOCKED.
- ALL WATER LINES SHALL BE CONSTRUCTED TO A DEPTH SO AS TO MAINTAIN 48" MIN GROUND COVER.
- PIPE BEDDING INSTALLATION AND BACKFILL SHALL BE PER MANUFACTURER'S RECOMMENDATIONS. ALL BURIED WATER PIPELINES SHALL HAVE TRACER WIRE (12 GAUGE) DIRECTLY ABOVE PIPE WHICH SHALL BE TIED TO ALL VALVES REFER TO TRENCH DETAIL FOR COMPACTION DENSITY REQUIREMENTS. COMPACTION TESTING SHALL BE A MINIMUM OF 1 PER LIFT FOR EVERY 200 FEET OF TRENCH LENGTH.

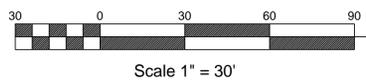
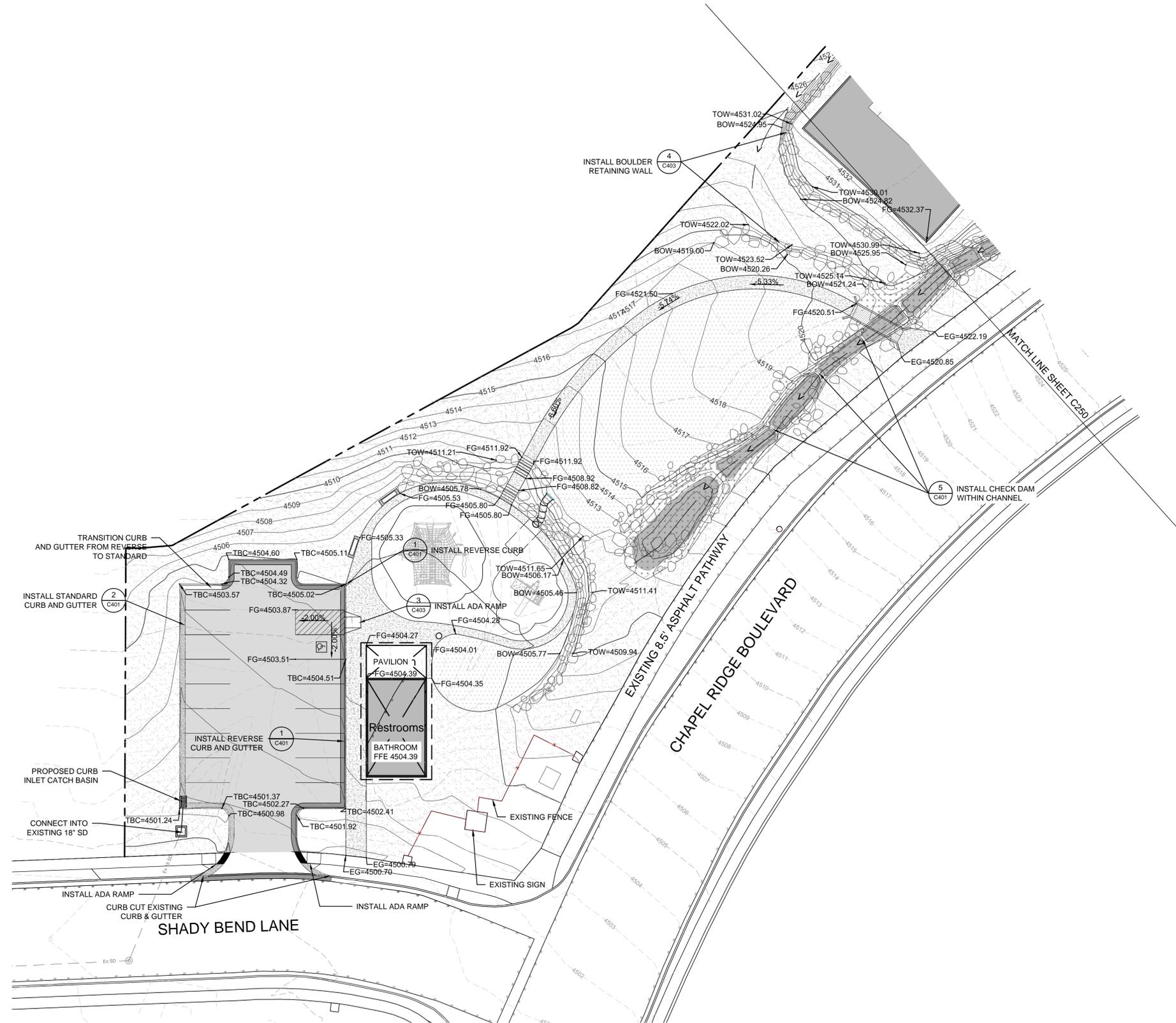
SEWER IMPROVEMENT REQUIREMENTS

- ALL SEWER MAINS AND APPURTENANCES SHALL BE DESIGNED, CONSTRUCTED, TESTED, AND PLACED IN SERVICE IN ACCORDANCE WITH ALL APPLICABLE LAWS, RULES, REGULATIONS, ORDINANCES, AND REQUIREMENTS INCLUDING, BUT NOT LIMITED TO, THE REQUIREMENTS OF OSHA, THE STATE DIVISION OF WATER QUALITY AND LEHI CITY.
- ANY FLUSHING INTO THE EXISTING SANITARY SEWER SYSTEM IS STRICTLY PROHIBITED.
- GRAVITY SEWER MAINS AND LATERALS SHALL BE PVC, SDR 35 PIPE WITH INTEGRAL BELL AND SPIGOT, GASKETED JOINTS. SEWER FORCE MAINS SHALL BE PE (POLYETHYLENE) PIPE AND SHALL MEET THE REQUIREMENTS FOR AWWA C906 / PE 3408, MINIMUM PRESSURE CLASS 150 (DR-11 MINIMUM). INSTALLATION SHALL BE PER ASTM D 2321 AND ASTM F 1668.
- GRAVITY SEWER MAINS AND LATERALS SHALL BE TESTED ACCORDING TO APWA 33 08 00 TO INCLUDE, ALIGNMENT AND GRADE TESTING, OBSTRUCTIONS AND DEFLECTION TESTING, INFILTRATION TESTING FOR GRAVITY PIPELINES, PRESSURE TESTING FOR PRESSURE PIPELINES, AND VIDEO INSPECTION.
- FOLLOWING ESTABLISHMENT OF FINISHED GRADE, ALL SEWER LINES SHALL BE FLUSHED AND CLEANED, AND ALL MAN-HOLE LIDS ADJUSTED TO 0.1 FEET BELOW FINISHED GRADE AND IN ACCORDANCE WITH THE REQUIREMENTS HEREIN.
- PIPE BEDDING INSTALLATION AND BACKFILL SHALL BE PER MANUFACTURER'S RECOMMENDATIONS. BACKFILL COMPACTION SHALL BE TO A MINIMUM OF NINETY-FIVE (95%) PERCENT MAXIMUM DRY DENSITY AND +/- 2% OPTIMUM MOISTURE CONTENT MODIFIED PROCTOR, AS SPECIFIED IN ASTM D-1557. COMPACTION TESTING SHALL BE A MINIMUM OF 1 PER LIFT FOR EVERY 200 FEET OF TRENCH LENGTH.

COMMUNICATION AND POWER CONDUIT REQUIREMENTS

- ALL COMMUNICATION CONDUITS SHALL BE 4-INCH SCH 40 NEMA TC2 PVC PIPE AND SHALL BE INSTALLED WITH A PULL STRING, CONTINUOUSLY RUN THROUGH EACH CONDUIT. ALL JOINTS SHALL BE SOLVENT WELDED. ALL CONDUIT AND FITTINGS SHALL BE HOMOGENEOUS AND FREE OF CRACKS, HOLES OR OTHER DEFECTS.
- PROVIDE MAGNETIC 6" WIDE YELLOW WARNING RIBBON 12" DIRECTLY ABOVE CONDUIT. WHERE MULTIPLE CONDUITS ARE BURIED IN A COMMON TRENCH AND DO NOT EXCEED AN OVERALL WIDTH OF 16", INSTALL A SINGLE MARKER.
- CUT ALL CONDUITS SQUARE AND REMOVE ALL SHARP OR ROUGH EDGES. PENETRATIONS INTO PULL BOXES AND MANHOLES SHALL BE GROUTED OR OTHERWISE FINISHED WITH A WATERPROOF SEAL. PLUG ALL UNUSED CONDUITS AT EACH PULL BOX AND MANHOLE WITH A REMOVABLE CAP OR PLUG. IN TRENCHES WITH MULTIPLE CONDUITS, EACH CONDUIT SHALL RUN CONTINUOUS AND PARALLEL FROM POINT TO POINT, STARTING AND ENDING IN EACH PULL BOX OR MANHOLE IN THE SAME LOCATION RELATIVE TO OTHER CONDUITS.
- CONDUITS SHALL BE TESTED TO BE AIR-TIGHT BY MEANS OF A LOW PRESSURE AIR TEST SUCH AS UNI-BELL B-6, OR SOME OTHER ACCEPTABLE TESTING PROCEDURE.

ALL IDEAS, DESIGNS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF COLONY DESIGN COLLECTIVE LLC AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF THE IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED BY OR DISCLOSED TO ANY PERSON, FIRM, OR ORGANIZATION WITHOUT THE WRITTEN CONSENT OF COLONY DESIGN COLLECTIVE LLC. ALL DIMENSIONS AND CONDITIONS ON THE JOB AND THIS OFFICE MUST BE NOTIFIED OF ANY VARIATION FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS. WARNING: REPRODUCTION HEREOF IS A CRIMINAL OFFENSE UNDER U.S.C. § 106. UNAUTHORIZED DISCLOSURE MAY CONSTITUTE TRADE SECRET MISAPPROPRIATION VIOLATION OF U.S.C. § 1832 AND OTHER LAWS.



GRADING PLAN 1
Scale : 1" = 20'-0" L200

Colony

Colony Design Collective
231 West, 800 South, Salt Lake City, UT, 84101
ph.801.913.3014 colonydesigncollective.com



STAMP
CONSULTANT



JOHANSON ENGINEERING
CIVIL · PLANNING · SURVEYING
909 EAST 4500 SOUTH SUITE C
SALT LAKE CITY, UTAH
PHONE (801) 859-1862 FAX (801) 495-2547

OWNER
Lehi City Corporation
153 North 100 East
Lehi, Utah 84043

PROJECT TITLE
Sunrise Summit Park

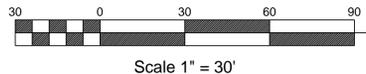
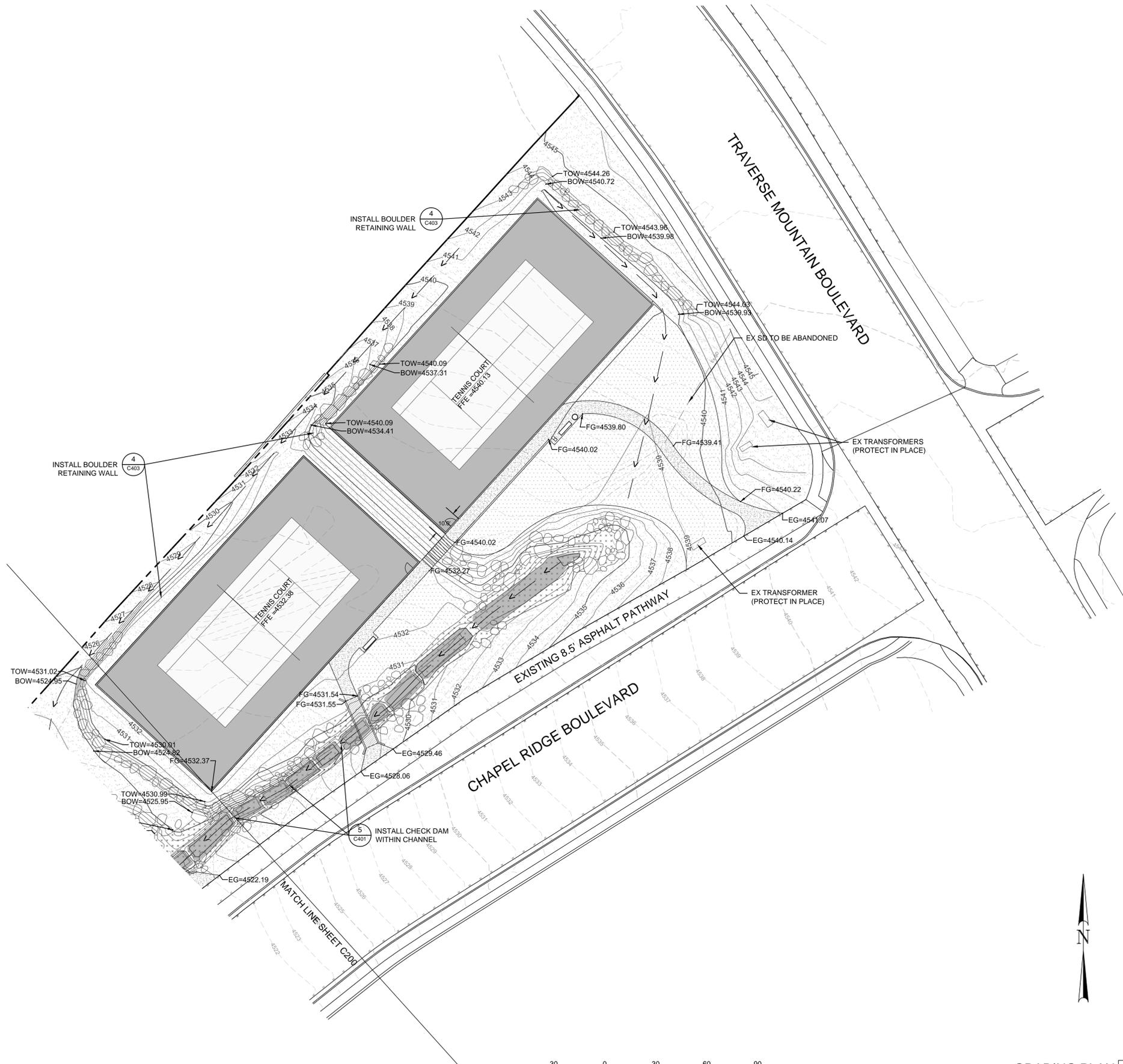
SHEET TITLE
GRADING PLAN, W.

REVISIONS
MARK | DATE | DESCRIPTION

ISSUE DATE 04 AUG 2014
ISSUE TITLE 100% CD
SCALE AS NOTED
DRAWN BY -
CHECKED BY -

LC-TP
C200

ALL IDEAS, DESIGNS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF COLONY DESIGN COLLECTIVE, LLC AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF THE IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED BY OR DISCLOSED TO ANY PERSON, FIRM, OR ORGANIZATION WITHOUT THE WRITTEN CONSENT OF COLONY DESIGN COLLECTIVE, LLC. ANY UNAUTHORIZED DISCLOSURE OR REPRODUCTION OF THIS DRAWING OR ANY PART THEREOF IS A VIOLATION OF THE COPYRIGHT LAWS OF THE UNITED STATES OF AMERICA AND IS PROHIBITED. ANY UNAUTHORIZED DISCLOSURE OR REPRODUCTION OF THIS DRAWING OR ANY PART THEREOF IS A VIOLATION OF THE COPYRIGHT LAWS OF THE UNITED STATES OF AMERICA AND IS PROHIBITED. ANY UNAUTHORIZED DISCLOSURE OR REPRODUCTION OF THIS DRAWING OR ANY PART THEREOF IS A VIOLATION OF THE COPYRIGHT LAWS OF THE UNITED STATES OF AMERICA AND IS PROHIBITED.



GRADING PLAN 1
Scale : 1" = 20'-0" L250

Colony

Colony Design Collective
231 West, 800 South, Salt Lake City, UT, 84101
ph.801.913.3014 colonydesigncollective.com



STAMP
CONSULTANT



JOHANSON ENGINEERING
CIVIL · PLANNING · SURVEYING
909 EAST 4500 SOUTH SUITE C
SALT LAKE CITY, UTAH
PHONE (801) 859-1862 FAX (801) 495-2547

OWNER
Lehi City Corporation
153 North 100 East
Lehi, Utah 84043

PROJECT TITLE
Sunrise Summit Park

SHEET TITLE
GRADING PLAN, E.

REVISIONS
MARK | DATE | DESCRIPTION

ISSUE DATE 04 AUG 2014
ISSUE TITLE 100% CD
SCALE AS NOTED
DRAWN BY -
CHECKED BY -

LC-TP
C250