

GENERAL NOTES

- 1.1 COMPLIANCE

1. ALL WORK TO CONFORM TO HILDALE CITY STANDARDS, SPECIFICATIONS AND REQUIREMENTS.

2. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THESE CONTRACT DOCUMENTS AND THE MOST RECENT, ADOPTED EDITIONS OF THE FOLLOWING: INTERNATIONAL BUILDING CODE (IBC), THE INTERNATIONAL PLUMBING CODE, STATE DRINKING WATER REGULATIONS, APWA MANUAL OF STANDARD PLANS AND SPECIFICATIONS, ADA ACCESSIBILITY GUIDELINES.

3. ALL CONSTRUCTION SHALL BE AS SHOWN ON THESE PLANS. ANY REVISIONS MUST HAVE PRIOR WRITTEN APPROVAL.

4. ALL CONSTRUCTION SHALL BE CONTAINED ONTO SUBJECT PARCEL. NO STOCKPILING OR CONSTRUCTION ACTIVITY SHALL OCCUR OFF THE APPROVED AREA WITHOUT PRIOR WRITTEN APPROVAL.
- 1.2 PERMITTING AND INSPECTIONS

1. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING SURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED THOROUGHLY REVIEWED PLANS AND OTHER DOCUMENTS APPROVED BY ALL OF THE PERMITTING AUTHORITIES.

2. CONTRACTOR IS RESPONSIBLE FOR SCHEDULING AND NOTIFYING ARCHITECT/ENGINEER OR INSPECTING AUTHORITY 48 HOURS IN ADVANCE OF COVERING UP ANY PHASE OF CONSTRUCTION REQUIRING OBSERVATION.

3. ANY WORK IN THE PUBLIC RIGHT-OF-WAY WILL REQUIRE PERMITS FROM THE APPROPRIATE, CITY, COUNTY OR STATE AGENCY CONTROLLING THE ROAD AND WITH APPROPRIATE INSPECTIONS.
- 1.3 COORDINATION & VERIFICATION

1. ALL DIMENSIONS, GRADES & UTILITY DESIGNS SHOWN ON THE PLANS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH CONSTRUCTION FOR NECESSARY PLAN OR GRADE CHANGES. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR WORK HAVING TO BE REDONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS, IF NOT VERIFIED AND NOTIFICATION OF CONFLICTS HAVE NOT BEEN BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER.

2. CONTRACTOR MUST VERIFY ALL EXISTING CONDITIONS BEFORE BIDDING AND BRING UP ANY QUESTIONS BEFOREHAND. NO ALLOWANCE WILL BE MADE FOR DISCREPANCIES OR OMISSIONS THAT CAN BE EASILY OBSERVED.

3. CONTRACTOR TO COORDINATE WITH ALL OTHER DISCIPLINES, INCLUDING BUT NOT LIMITED TO: LANDSCAPE PLANS, CABLE TV, GAS, SITE ELECTRICAL PLANS AND ELECTRICAL SERVICE TO THE SITE. CONTRACTOR IS TO COORDINATE LOCATION OF NEW TELEPHONE SERVICE, GAS SERVICE, CABLE, ETC. TO SITE WITH THE APPROPRIATE UTILITY COMPANY.
- 1.4 SAFETY AND PROTECTION

1. CONTRACTOR IS SOLELY RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION.

2. CONTRACTOR IS RESPONSIBLE FOR THE SAFETY OF THE PROJECT AND SHALL MEET ALL OSHA REQUIREMENTS.

3. CONTRACTOR IS RESPONSIBLE FOR CONFORMING TO LOCAL AND FEDERAL CODES GOVERNING SHORING AND BRACING OF EXCAVATIONS AND TRENCHES, AND FOR THE PROTECTION OF WORKERS AND PUBLIC.

4. CONTRACTOR SHALL TAKE ALL MEASURES NECESSARY TO PROTECT ALL EXISTING PUBLIC AND PRIVATE PROPERTY, ROADWAYS, AND UTILITY IMPROVEMENTS. DAMAGE TO EXISTING IMPROVEMENTS CAUSED BY THE CONTRACTOR MUST BE REPAIRED BY THE CONTRACTOR AT HIS/HER EXPENSE TO THE SATISFACTION OF THE OWNER OF SAID IMPROVEMENTS.

5. CONTRACTOR IS REQUIRED TO KEEP ALL CONSTRUCTION ACTIVITIES WITHIN THE APPROVED PROJECT LIMITS. THIS INCLUDES, BUT IS NOT LIMITED TO, VEHICLE AND EQUIPMENT STAGING, MATERIAL STORAGE AND LIMITS OF TRENCH EXCAVATION.

6. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN PERMISSION AND/OR EASEMENTS FROM THE APPROPRIATE GOVERNMENT AGENCY AND/OR INDIVIDUAL PROPERTY OWNER(S) FOR WORK OR STAGING OUTSIDE OF THE PROJECT LIMITS.

7. CONTRACTOR SHALL PROVIDE BARRICADES, SIGNS, FLASHERS, OTHER EQUIPMENT AND FLAG PERSONS NECESSARY TO INSURE THE SAFETY OF WORKERS AND VISITORS. ALL CONSTRUCTION SIGNING, BARRICADING, AND TRAFFIC DELINEATION SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", LATEST EDITION.

8. CONTRACTOR SHALL COMPLY WITH LOCAL NOISE ORDINANCE STANDARDS.

9. CONTRACTOR IS RESPONSIBLE FOR DUST CONTROL ACCORDING TO GOVERNING AGENCY STANDARDS.

10. CONTRACTOR SHALL TAKE ALL NECESSARY AND PROPER PRECAUTIONS TO PROTECT ADJACENT PROPERTIES FROM ANY AND ALL DAMAGE THAT MAY OCCUR FROM STORM WATER RUNOFF AND/OR DEPOSITION OF DEBRIS RESULTING FROM ANY AND ALL WORK IN CONNECTION WITH CONSTRUCTION. SUBMIT A STORM WATER POLLUTION PREVENTION PLAN, IF REQUIRED.

11. WORK IN PUBLIC STREETS, ONCE BEGUN, SHALL BE PROSECUTED TO COMPLETION WITHOUT DELAY AS TO PROVIDE MINIMUM INCONVENIENCE TO ADJACENT PROPERTY OWNERS AND TO THE TRAVELING PUBLIC.

12. CONTRACTOR SHALL PROVIDE ALL NECESSARY HORIZONTAL AND VERTICAL TRANSITIONS BETWEEN NEW CONSTRUCTION AND EXISTING SURFACES TO PROVIDE FOR PROPER DRAINAGE AND FOR INGRESS AND EGRESS TO NEW CONSTRUCTION.

13. NATURAL VEGETATION AND SOIL COVER SHALL NOT BE DISTURBED PRIOR TO ACTUAL CONSTRUCTION OF A REQUIRED FACILITY OR IMPROVEMENT. MASS CLEARING OF THE SITE IN ANTICIPATION OF CONSTRUCTION SHALL BE AVOIDED. CONSTRUCTION TRAFFIC SHALL BE LIMITED TO ONE APPROACH TO THE SITE. THE APPROACH SHALL BE DESIGNATED BY THE OWNER OR GOVERNING AGENCY.

14. THE CONTRACTOR SHALL TAKE REASONABLE MEASURE TO PROTECT EXISTING IMPROVEMENTS FROM DAMAGE AND ALL SUCH IMPROVEMENTS DAMAGED BY THE CONTRACTOR'S OPERATION SHALL BE REPAIRED OR RECONSTRUCTED TO THE ENGINEER/OWNER'S SATISFACTION AT THE EXPENSE OF THE CONTRACTOR.
- 1.5 MATERIALS

15. SITE CONCRETE SHALL BE A MINIMUM 4,000 P.S.I. @ 28 DAYS, 4" MAXIMUM SLUMP WITH 6% + OR - 1% AIR ENTRAINMENT, UNLESS SPECIFIED OTHERWISE. -SEE SPECIFICATION

16. SLABS-ON-GRADE WILL BE TYPICALLY SCORED (1/4 THE DEPTH) AT INTERVALS NOT TO EXCEED THEIR WIDTH OR 12 TIMES THEIR DEPTH, WHICHEVER IS LESS. SCORING WILL BE PLACED TO PREVENT RANDOM CRACKING. FULL DEPTH EXPANSION JOINTS WILL BE PLACED AGAINST ANY OBJECT DEEMED TO BE FIXED, CHANGES IN DIRECTION AND AT EQUAL INTERVALS NOT TO EXCEED 50 FEET.

17. CONCRETE WATERWAYS, CURBWALLS, MOWSTRIPS, CURB AND GUTTER, ETC. WILL TYPICALLY BE SCORED 1/4 THE DEPTH AT INTERVALS NOT TO EXCEED 10 FEET AND HAVE FULL DEPTH EXPANSION JOINTS AT EQUAL SPACING NOT TO EXCEED 50 FEET.

18. UNLESS OTHERWISE NOTED, ALL SLABS-ON-GRADE WILL HAVE A MINIMUM 8" TURNED-DOWN EDGE TO HELP CONTROL FROST HEAVE.

19. UNLESS OTHERWISE NOTED, ALL ON-GRADE CONCRETE SHALL BE SUPPORTED PER THE RECOMMENDATIONS OF THE GEOTECHNICAL INVESTIGATION.

20. ALL EXPOSED SURFACES WILL HAVE A TEXTURED FINISH, RUBBED OR BROOMED. ANY "PLASTERING" OF NEW CONCRETE WILL BE DONE WHILE IT IS STILL "GREEN".

21. ALL JOINTS (CONTROL, CONSTRUCTION OR EXPANSION JOINTS, ETC.) WILL BE SEALED WITH A ONE PART POLYURETHANE SEALANT.

22. ASPHALTIC PAVEMENT SHALL BE A MINIMUM 2-1/2" OVER 6" OF COMPACTED (95%) ROAD BASE OVER PROPERLY PREPARED AND COMPACTED (90%) SUBGRADE, UNLESS NOTED OTHERWISE. -SEE SPECIFICATIONS IN THE GEOTECHNICAL REPORT PREPARED FOR THIS PROJECT

23. ASPHALT COMPACTION SHALL BE A MINIMUM 96% (MARSHALL DESIGN).

24. SURFACE COARSE SHALL BE ¾" MINUS. MIX DESIGN TO BE SUBMITTED FOR APPROVAL AT LEAST TWO WEEKS PRIOR TO ANTICIPATED SCHEDULE.

25. AC PAVEMENT TO BE A 1/4" ABOVE LIP OF ALL GUTTER AFTER COMPACTION.

26. THICKNESSES OVER 3" WILL BE LAID IN TWO LIFTS WITH THE FIRST LIFT BEING AN APPROVED ¾" MINUS DESIGN.
- 1.6 GRADING / SOILS

1. SITE GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH IN THE SOILS REPORT, WHICH BY REFERENCE ARE A PART OF THE REQUIRED CONSTRUCTION DOCUMENTS AND IN CASE OF CONFLICT SHALL TAKE PRECEDENCE, UNLESS SPECIFICALLY NOTED OTHERWISE ON THE PLANS, OR IN THE SPECIFICATIONS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCY BETWEEN THE SOILS REPORT AND THESE PLANS AND SPECIFICATIONS.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND REPLACING ALL SOFT, YIELDING OR UNSUITABLE MATERIALS AND REPLACING WITH SUITABLE MATERIALS AS SPECIFIED IN THE SOILS REPORT.

3. ALL EXCAVATED OR FILLED AREAS SHALL BE COMPACTED TO 95% OF MODIFIED PROCTOR MAXIMUM DENSITY PER ASTM TEST D-1557, EXCEPT UNDER BUILDING FOUNDATIONS WHERE IT SHALL BE 98% MIN. OF MAXIMUM DENSITY. MOISTURE CONTENT AT TIME OF PLACEMENT SHALL NOT EXCEED 2% ABOVE NOR 3% BELOW OPTIMUM.

4. CONTRACTOR SHALL SUBMIT A COMPACTION REPORT PREPARED BY A QUALIFIED REGISTERED SOILS ENGINEER, VERIFYING THAT ALL FILLED AREAS AND SUBGRADE AREAS WITH THE BUILDING PAD AREA AND AREAS TO BE PAVED, HAVE BEEN COMPACTED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH IN THE SOILS REPORT.

5. SITE CLEARING SHALL INCLUDE THE LOCATING AND REMOVAL OF ALL UNDERGROUND TANKS, PIPES, VALVES, ETC.

6. ALL EXISTING VALVES, MANHOLES, ETC. SHALL BE RAISED OR LOWERED TO GRADE AS REQUIRED.

7. THE CONTRACTOR SHALL PROVIDE A TEMPORARY TRASH ENCLOSURE ON SITE DURING ALL CONSTRUCTION ACTIVITIES TO CONTAIN DEBRIS AND PREVENT AIRBORNE LITTERING OFFSITE.

8. A WATER TRUCK SHALL BE USED ON SITE TO WET DOWN ALL EARTHWORK AND TO CONTROL AIRBORNE PARTICLES.
- 1.7 UTILITIES

1. THE LOCATIONS OF UNDERGROUND FACILITIES SHOWN ON THESE PLANS ARE BASED ON FIELD SURVEYS AND LOCAL UTILITY COMPANY RECORDS. IT SHALL BE THE CONTRACTOR'S FULL RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES EITHER DIRECT OR THROUGH BLUE STAKE TO LOCATE THEIR FACILITIES PRIOR TO STARTING CONSTRUCTION.

2. ALL UTILITIES SHALL BE BELTALLED IN ACCORDANCE WITH THE LOCAL MUNICIPALITY CODES, STANDARDS, AND SPECIFICATIONS. INSTALLATION OF UTILITIES WITHIN THE HIGHWAY RIGHT-OF-WAY SHALL CONFORM TO UTAH ADMINISTRATIVE RULE R930-6, "ACCOMODATION OF UTILITIES AND THE CONTROL AND PROTECTION OF STATE HIGHWAY RIGHTS OF WAY".

3. CONTRACTOR TO VERIFY BY POTHOLING BOTH THE VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UTILITIES PRIOR TO INSTALLING ANY NEW LINES. NO ADDITIONAL COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR DAMAGE AND REPAIR TO THESE FACILITIES CAUSED BY HIS WORK FORGE.

4. CONTRACTOR MUST START AT LOW END OF ALL NEW GRAVITY UTILITY LINES. MECHANICAL SUB-CONTRACTOR MUST BE PROVIDED CIVIL SITE DRAWINGS FOR COORDINATION AND TO CHECK THE FLOW FROM THE LOWEST POINT IN BUILDING TO THE FIELD VERIFIED CONNECTION AT THE EXISTING MAIN. NO EXTRA COMPENSATION IS TO BE PAID TO THE CONTRACTOR FOR WORK HAVING TO BE REDONE DUE TO FAILURE TO COMPLY WITH THESE REQUIREMENTS.

5. CONTRACTOR IS TO VERIFY LOCATION, DEPTH, SIZE, TYPE, AND OUTSIDE DIAMETERS OF UTILITIES IN THE FIELD BY POTHOLING A MINIMUM OF 300 FEET AHEAD, PIPELINE CONSTRUCTION TO AVOID CONFLICTS WITH DESIGNED PIPELINE GRADE AND ALIGNMENT. EXISTING UTILITY INFORMATION SHOWN ON PLANS OR OBTAINED FROM UTILITY COMPANIES OR BLUE STAKED MUST BE ASSUMED AS APPROXIMATE, REQUIRING FIELD VERIFICATION.

6. CULINARY WATER AND FIRE SERVICE LINES TO BE CONSTRUCTED IN ACCORDANCE WITH LOCAL GOVERNING MUNICIPALITY STANDARDS AND SPECIFICATIONS.

7. SANITARY SEWER MAINS AND LATERALS TO BE CONSTRUCTED IN ACCORDANCE WITH LOCAL GOVERNING MUNICIPALITY SEWER DISTRICT STANDARDS AND SPECIFICATIONS.

8. STORM SEWER TO BE CONSTRUCTED IN ACCORDANCE WITH THE GOVERNING MUNICIPALITY STANDARDS AND SPECIFICATIONS.

9. ALL STORM DRAIN AND IRRIGATION CONDUITS SHALL BE INSTALLED WITH WATER TIGHT JOINTS AND CONNECTIONS.

10. ALL STORM DRAIN PIPE PENETRATIONS INTO BOXES SHALL BE CONSTRUCTED WITH WATER TIGHT SEALS ON THE OUTSIDE AND GROUTED SMOOTH WITH A NON-SHRINK GROUT ON THE INSIDE. CONDUITS SHALL BE CUT OFF FLUSH WITH THE INSIDE OF THE BOX.

11. NO CHANGE IN THE DESIGN OF UTILITIES AS SHOWN WILL BE MADE BY THE CONTRACTOR WITHOUT THE WRITTEN APPROVAL OF THE GOVERNING MUNICIPALITY, OR OTHER AUTHORITY HAVING JURISDICTION OVER THAT UTILITY.

12. ONLY A PRE-APPROVED CONTRACTOR TO WORK ON AND INSTALL ANY PART OF THE WATER SYSTEM.

13. DEVELOPER IS RESPONSIBLE FOR ALL COSTS, UNLESS OTHERWISE STATED ON PRINT.

14. ONLY A PRE-APPROVED CONTRACTOR TO WORK ON AND INSTALL ANY PART OF THE ELECTRICAL SYSTEM.

15. LINES ARE FOR SCHEMATIC PURPOSES ONLY. ALL EQUIPMENT AND PLACEMENT OF TO BE PER GARKANE ENERGY SPECIFICATIONS.

16. EASEMENTS TO BE SIGNED OVER TO HILDALE CITY. IT IS THE DEVELOPER'S RESPONSIBILITY TO MAKE SURE EASEMENTS ARE OBTAINED FROM ANY PROPERTIES THAT MAY BE AFFECTED.

17. NO RETAINING WALLS TO RUN INTO UTILITY EASEMENTS.

18. ALL CONDUITS TO BE FOAMED. ANY EMPTY STUB OUTS TO HAVE A TEMPORARY PLUG INSTALLED.

19. ANY CHANGES TO THE SIGNED SET OF PLANS MUST BE APPROVED BY GARKANE ENERGY.

20. THE ENTIRE JUC TRENCH MUST BE BACKFILLED WITH 1" MINUS FROM THE BOTTOM TO THE TOP OF THE TRENCH. ALSO AROUND ELECTRICAL BOXES AND EQUIPMENT.

21. IMPACT FEES TO BE COLLECTED BY GARKANE ENERGY. IMPACT FEES TO BE CHARGED ARE BASED OFF SERVICE MAIN SIZE. CONTACT GARKANE ENERGY REGARDING IMPACT FEE QUESTIONS.

22. METERS SHALL NOT BE LOCATED IN FENCED AREAS. METERS SHALL BE KEPT ACCESSIBLE AT ALL TIME.

23. DEPENDING ON TRANSFORMER LOCATION, TRANSFORMER MAY NEED BOLLARDS TO PROTECT IT FROM TRAFFIC. CONTACT GARKANE ENERGY REGARDING TRANSFORMER PROTECTION.
- 1.8 POWER NOTES

1. DEVELOPER IS RESPONSIBLE FOR ALL COSTS, UNLESS OTHERWISE STATED ON PRINT.

2. ONLY A PRE-APPROVED CONTRACTOR TO WORK ON AND INSTALL ANY PART OF THE ELECTRICAL SYSTEM.

3. LINES ARE FOR SCHEMATIC PURPOSES ONLY. ALL EQUIPMENT AND PLACEMENT OF TO BE PER GARKANE ENERGY SPECIFICATIONS.

4. EASEMENTS TO BE SIGNED OVER TO HILDALE CITY. IT IS THE DEVELOPER'S RESPONSIBILITY TO MAKE SURE EASEMENTS ARE OBTAINED FROM ANY PROPERTIES THAT MAY BE AFFECTED.

5. NO RETAINING WALLS TO RUN INTO UTILITY EASEMENTS.

6. ALL CONDUITS TO BE FOAMED. ANY EMPTY STUB OUTS TO HAVE A TEMPORARY PLUG INSTALLED.

7. ANY CHANGES TO THE SIGNED SET OF PLANS MUST BE APPROVED BY GARKANE ENERGY.

8. THE ENTIRE JUC TRENCH MUST BE BACKFILLED WITH 1" MINUS FROM THE BOTTOM TO THE TOP OF THE TRENCH. ALSO AROUND ELECTRICAL BOXES AND EQUIPMENT.

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10. METERS SHALL NOT BE LOCATED IN FENCED AREAS. METERS SHALL BE KEPT ACCESSIBLE AT ALL TIME.

11. DEPENDING ON TRANSFORMER LOCATION, TRANSFORMER MAY NEED BOLLARDS TO PROTECT IT FROM TRAFFIC. CONTACT GARKANE ENERGY REGARDING TRANSFORMER PROTECTION.
- 1.9 SURVEY CONTROL

1. CONTRACTOR MUST PROVIDE A REGISTERED LAND SURVEYOR OR PERSONS UNDER THE SUPERVISION OF A REGISTERED LAND SURVEYOR TO SET STAKES FOR THE ALIGNMENT AND GRADE OF EACH MAIN AND/OR FACILITY AS SHOWN ON THE PLANS. THE STAKES SHALL BE MARKED WITH THE HORIZONTAL LOCATION (STATION) AND VERTICAL LOCATION (GRADE) WITH CUTS AND/OR FILLS TO THE APPROVED GRADE OF THE MAIN AND OR FACILITY AS SHOWN ON THE PLANS.

2. CONTRACTOR MUST PROVIDE A REGISTERED LAND SURVEYOR OR PERSONS UNDER THE SUPERVISION OF A REGISTERED LAND SURVEYOR TO SET STAKES OF ALL PROPERTY CORNERS.

3. THE CONTRACTOR SHALL PROTECT ALL STAKES AND MARKERS FOR VERIFICATION PURPOSES.

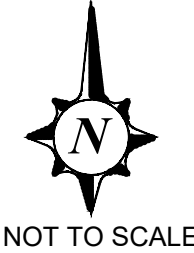
4. CONTRACTOR WILL BE RESPONSIBLE FOR FURNISHING, MAINTAINING, OR RESTORING ALL MONUMENTS AND REFERENCE MARKS WITHIN THE PROJECT SITE.
- 2.0 AMERICAN DISABILITIES ACT

1. PEDESTRIAN / ADA ROUTES SHALL MEET THE FOLLOWING SPECIFICATIONS:
"ROUTES SHALL HAVE A 2.00% (1:50) MAXIMUM CROSS SLOPE.
"ROUTES SHALL HAVE A 5.00% (1:20) MAXIMUM RUNNING SLOPE.
"RAMPS SHALL HAVE A 8.33% (1:12) MAXIMUM RUNNING SLOPE.

2. ADA PARKING STALLS AND ADJACENT ROUTES SHALL HAVE A 2.00% MAXIMUM SURFACE SLOPE IN ANY DIRECTION.

3. THE CONTRACTOR SHALL ADHERE TO THE ABOVE SPECIFICATIONS. IN THE EVENT OF A DISCREPANCY IN THE CONSTRUCTION DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO ANY CONSTRUCTION.

HILDALE WATERLINE EXTENSION
INNOVATION CENTER
WATERLINE CONSTRUCTION PLANS
HILDALE, UTAH



PROJECT INFORMATION

OWNER:

HILDALE CITY
320 EAST NEWEL AVENUE
HILDALE, UT 84784
(435) 874-2323

ENGINEER:

CHARLES HAMMON, PE
1185 WEST UTAH AVENUE
HILDALE, UT 84784
(435) 619-4586

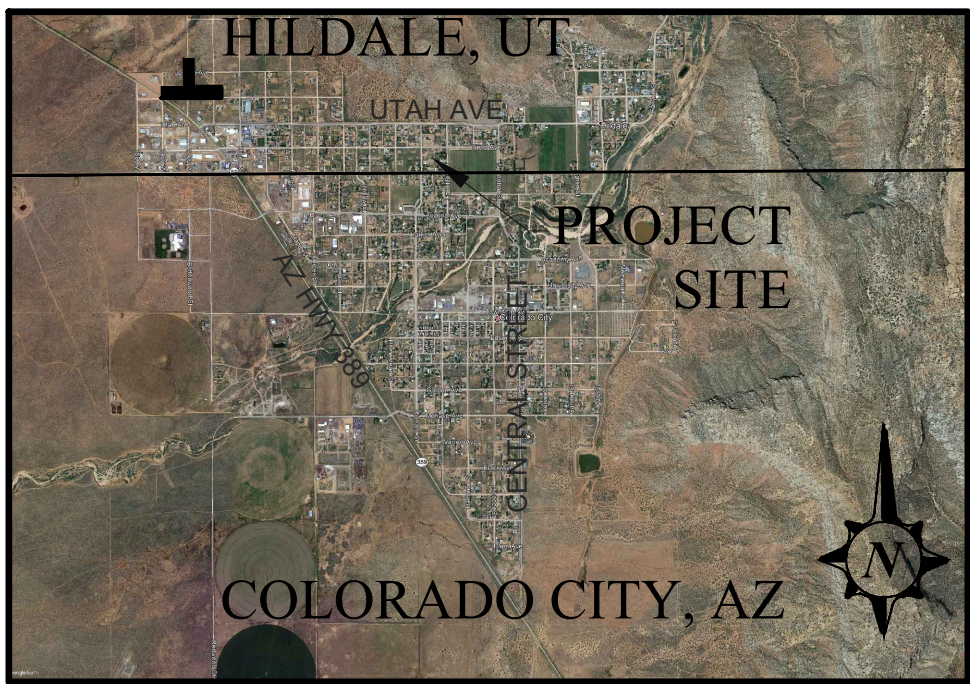
FEMA FLOOD DESIGNATION:

THIS SITE IS LOCATED IN ZONE 'X' (NOT A FLOOD ZONE) PER FEMA MAP #49053C1165G.

UTILITY PROVIDERS

WATER	HILDALE / COLORADO CITY UTILITIES
SEWER	HILDALE / COLORADO CITY UTILITIES
ELECTRIC	GARKANE ENERGY COOPERATIVE
TELEPHONE	SOUTH CENTRAL COMMUNICATIONS
GAS	HILDALE / COLORADO CITY UTILITIES
REFUSE	HILDALE / COLORADO CITY UTILITIES
LANDFILL	ARIZONA STRIP LANDFILL CORPORATION (9.5 MILES)
FIRE DISTRICT	COLORADO CITY FIRE DEPARTMENT

PROJECT VICINITY



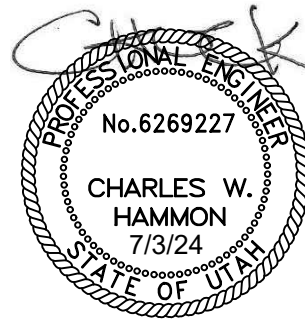
DRAWING INDEX

C - CIVIL DRAWINGS
C1.1 - CIVIL COVER SHEET
C4.1 - UTILITY PLAN
C5.1 - DETAILS



EXCEL DESIGN ASSOCIATES
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INNOVATION CENTER
WATERLINE EXTENSION

HILDALE CITY
WASHINGTON COUNTY, UTAH
LOCATED IN THE N.E. 1/4 OF SEC. 32, T43S, R10W, SLB&M

REVISIONS

REV.	DATE	DESCRIPTION
▲		
▲		
▲		
▲		

PROJECT NO: 24-157-01

CAD DWG. FILE: 24-157-01_SITE

DRAWN BY: CWH

DESIGNED BY: CWH

FIELD CREW:

CHECKED BY:

DATE: 7/3/24

SHEET TITLE:

COVER
SHEET

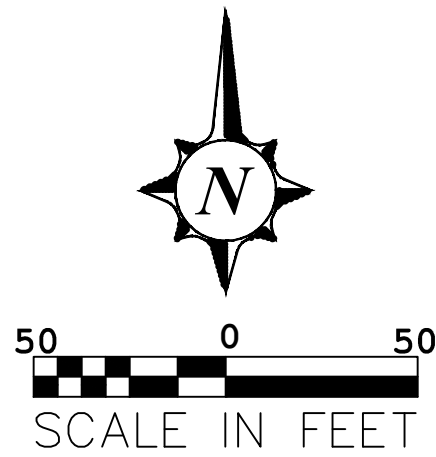
C-1.1
SHEET: 1 OF 3

ABBREVIATIONS LEGEND

AC	ACRE	EX	EXISTING
B&C	BAR & CAP	FFE	FINISHED FLOOR ELEVATION
BM	BENCHMARK	FG	FINISHED GRADE
C	CENTERLINE	FT	FEET
CP	CONTROL POINT	HDPE	
CU FT	CUBIC FOOT	HW	HIGH WATER
CU YD	CUBIC YARD	HWY	HIGHWAY
CONC	CONCRETE	IE	INVERT ELEVATION
CONST	CONSTRUCTION	IRR	IRRIGATION
CMP	CORRUGATED METAL PIPE	LF	LINEAR FEET
DIA Ø	DIAMETER	MAX	MAXIMUM
E	EAST	MIN	MINIMUM
EOA	EDGE OF ASPHALT	MON	MONUMENT
ELEV	ELEVATION	N	NORTH

COLORADO CITY FIRE DISTRICT

\\SERVER-19\Excel\Projects\24-157 --- HILDAL\24-157-01 --- Waterline Extension.dwg 24-157-01_SITE_3-4-24.dwg Jul 08, 2024 - 12:06pm



UTILITY PLAN NOTES

- EXISTING UNDERGROUND UTILITIES AND IMPROVEMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS BASED UPON RECORD INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF PLANS. AND NO GUARANTEE IS MADE AS TO ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXISTENCE AND LOCATION OF THOSE UTILITIES SHOWN ON THESE PLANS OR INDICATED IN THE FIELD BY LOCATING SERVICES. ANY ADDITIONAL COSTS INCURRED AS A RESULT OF CONTRACTOR'S FAILURE TO VERIFY LOCATIONS OF EXISTING UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION IN THEIR VICINITY SHALL BE BORNE BY THE CONTRACTOR AND ASSUMED INCLUDED IN THE CONTRACT.
- ALL UTILITIES SHALL BE INSTALLED IN ACCORDANCE WITH THE LOCAL MUNICIPALITY CODES, STANDARDS, AND SPECIFICATIONS. INSTALLATION OF UTILITIES SHALL CONFORM TO HILDALE CITY STANDARDS AND SPECIFICATIONS.
- COORDINATE ALL UTILITY SERVICES WITH APPROPRIATE PROVIDER. EASEMENTS AND PERMITS TO BE OBTAINED BY DEVELOPER PRIOR TO CONSTRUCTION.
- NEW WATER LINES SHALL CONFORM TO THE AMERICAN WATER WORKS ASSOCIATION (AWWA) SPECIFICATIONS C200-86, AND ANY LOCAL RESTRICTIONS. WATER LINES SHALL BE INSTALLED 4' (MIN.) BELOW FINISH GRADE FOR FROST PROTECTION.
- FOR WORK PERFORMED WITHIN THE RIGHT-OF-WAY, A TRAFFIC CONTROL PLAN SHALL BE DEVELOPED AND IMPLEMENTED IN ACCORDANCE WITH THE CURRENT FEDERAL HIGHWAY ADMINISTRATION'S "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD).
- ALL EXCAVATIONS AND BACKFILL SHALL CONFORM TO HILDALE CITY STANDARDS AND SPECIFICATIONS.
- 14 GAUGE WIRE SHALL BE TAPED TO THE BOTTOM OF ALL WATER LINES FOR LOCATING PURPOSES. THE WIRE SHALL ALSO BE BROUGHT UP AT EACH VALVE BOX AND HYDRANT.
- INSTALL JOINT RESTRAINTS ON THE NEW PIPELINE. USE MEGA-LUG ON THE FITTINGS AND FIELD LOCK GASKETS ON THE REQUIRED LENGTH OF RESTRAINED PIPE.
- ALL MANHOLES, VALVE BOXES AND OTHER SIMILAR ITEMS SHALL HAVE CONCRETE COLLAR PER HILDALE CITY STANDARDS.
- ALL MATERIALS THAT MAY COME INTO CONTACT WITH DRINKING WATER, INCLUDING PIPES, GASKETS, LUBRICANTS AND O-RINGS, SHALL BE ANSI-CERTIFIED AS MEETING THE REQUIREMENTS OF ANSI / NSF STANDARD 61, DRINKING WATER SYSTEM COMPONENTS - HEALTH EFFECTS. TO PERMIT FIELD-VERIFICATION OF THIS CERTIFICATION, ALL COMPONENTS SHALL BE APPROPRIATELY STAMPED WITH THE NSF LOGO.
- THE HORIZONTAL DISTANCE BETWEEN WATER LINES AND SANITARY LINES SHALL BE AT LEAST 10 FEET. WHEN A WATER MAIN AND A SEWER LINE MUST CROSS, THE WATER MAIN SHALL BE AT LEAST 18 INCHES ABOVE THE SEWER LINE. SEPARATION DISTANCES SHALL BE MEASURED EDGE-TO-EDGE.
- ALL NEW WATER MAINS OR APPURTENANCES SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA STANDARD C651-05 OR A METHOD APPROVED BY THE DIRECTOR. THE SPECIFICATIONS SHALL INCLUDE DETAILED PROCEDURES FOR THE ADEQUATE FLUSHING, DISINFECTION, AND MICROBIOLOGICAL TESTING OF ALL WATER MAINS. ON ALL NEW AND EXTENSIVE DISTRIBUTION SYSTEM CONSTRUCTION, EVIDENCE OF SATISFACTORY DISINFECTION SHALL BE PROVIDED TO THE DIVISION. SAMPLES FOR COLIFORM ANALYSES SHALL BE COLLECTED AFTER DISINFECTION IS COMPLETE AND THE SYSTEM IS REFILLED WITH DRINKING WATER. A STANDARD HETEROTROPHIC PLATE COUNT IS ADVISABLE. THE USE OF WATER FOR PUBLIC DRINKING WATER PURPOSES SHALL NOT COMMENCE UNTIL THE BACTERIOLOGIC TESTS INDICATE THE WATER IS FREE FROM CONTAMINATION.
- ALL TYPES OF INSTALLED PIPE SHALL BE PRESSURE TESTED AND LEAKAGE TESTED IN ACCORDANCE WITH AWWA STANDARD C600-10.

KEY NOTE LEGEND

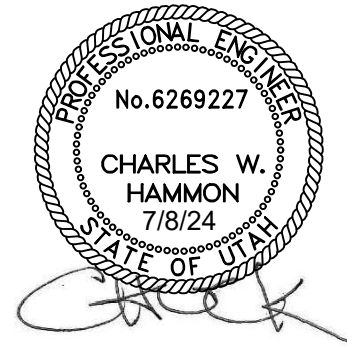
- EXISTING 6" WATERLINE
- LOCATE END OF EXISTING WATERLINE. CONFIRM SIZE AND TYPE OF EXISTING. CONNECT TO EXISTING TEE & INSTALL REDUCER IF NECESSARY. SEE DETAIL A2, SHEET C-5.1 FOR TRENCHING & DETAIL A4, SHEET C-5.1 FOR JOINT RESTRAINTS.
- REMOVE PORTION OF EXISTING 2" WATERLINE. CONNECT END OF EXISTING 6" PVC WATERLINE WITH 8" MJ x TAPPED FLANGE, AND JOINT RESTRAINTS AS INDICED IN DETAIL A4, SHEET C-5.1.
- PROPOSED 8" PVC C-900, DR18 WATERLINE. SEE DETAIL A2, SHEET C-5.1 FOR TRENCHING & DETAIL A4, SHEET C-5.1 FOR JOINT RESTRAINTS.
- PROPOSED 3/4" WATER SERVICE LINE & METER SET. SEE DETAIL C2, SHEET C-5.1. ~~CONFIRM WATER METER SERVICE SIZE WITH HILDALE CITY.~~
- INSTALL 4" FIRE SUPPRESSION LINE. CONNECT TO MAIN WITH 4" x 8" REDUCER AND VALVE IN STREET. CAP FIRE SUPPRESSION LINE WITH BOLTED END CAP.
- PROPOSED FIRE HYDRANT ASSEMBLY PER DETAIL B2, SHEET C-5.1.
- INSTALL 20' OF NEW 8" PVC WATERLINE WITH BOLTED END CAP AT END
- INSTALL 8" CROSS WITH 8" GATE VALVES ON EACH END
- INSTALL 8" GATE VALVE ON NORTH END OF TEE
- LOCATE END OF EXISTING WATERLINE. CONFIRM SIZE AND TYPE. INSTALL 8" TEE WITH GATE VALVES IN EACH END. INSTALL REDUCER ON BRANCH END AS NEEDED DEPENDING ON SIZE OF EXISTING WATERLINE.
- EXISTING 2" WATERLINE



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INNOVATION CENTER
WATERLINE EXTENSION

HILDALE CITY

WASHINGTON COUNTY, UTAH

LOCATED IN THE N.E. 1/4 OF SEC. 32, T4S, R10W, SLB&M

REVISIONS

REV	DATE	DESCRIPTION
1		
2		
3		
4		

PROJECT NO: 24-157-01
CAD DWG. FILE: 24-157-01_SITE
DRAWN BY: CWH
DESIGNED BY: CWH
FIELD CREW:
CHECKED BY:
DATE: 7/3/24

SHEET TITLE:

UTILITY
PLAN

C-4.1

SHEET: 2 OF 3

