



BENCHMARK
 NORTH QUARTER CORNER OF SECTION 01,
 TOWNSHIP 9 SOUTH, RANGE 1 EAST
 SALT LAKE BASE AND MERIDIAN
 ELEV = 4880.90'

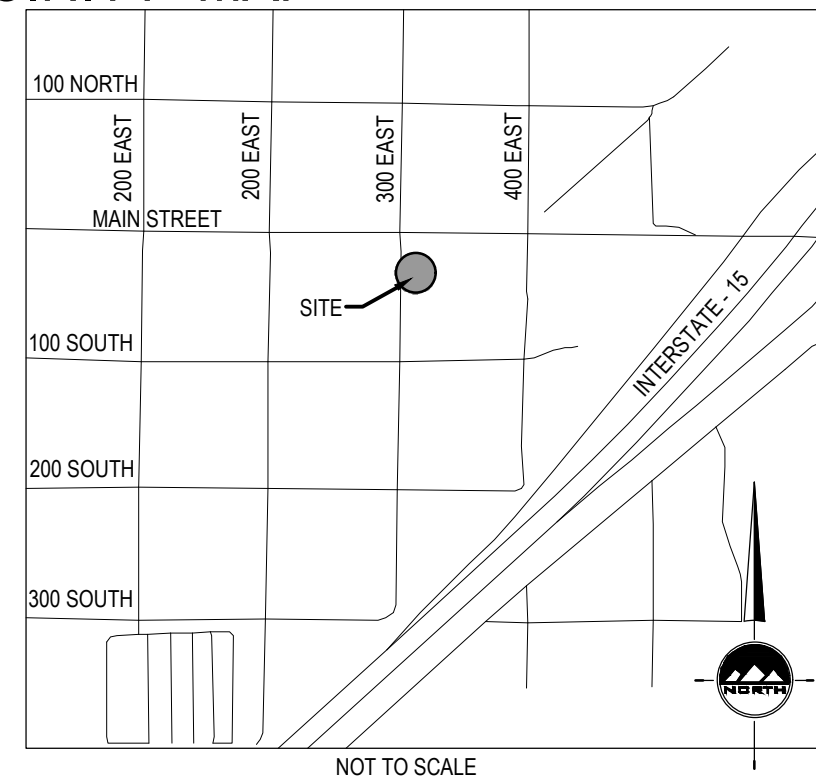
HOLIDAY OIL SANTAQUIN

**45 SOUTH 300 EAST
 SANTAQUIN, UTAH**

INDEX OF DRAWINGS

1 OF 1	ALTA SURVEY
C-001	GENERAL NOTES
C100	DEMOLITION PLAN
C200	SITE PLAN
C300	GRADING AND DRAINAGE PLAN
C400	UTILITY PLAN
C500	EROSION CONTROL
C600	DETAILS
PH100	PHOTOMETRIC PLAN
L-100	LANDSCAPE PLAN
L-200	LANDSCAPE AND IRRIGATION DETAILS
L-300	IRRIGATION PLAN

VICINITY MAP



GENERAL NOTES

- ALL WORK SHALL CONFORM TO SANTAQUIN STANDARDS & SPECIFICATIONS.
- CALL BLUE STAKES AT LEAST 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES.
- BENCHMARK ELEVATION = SOUTHWEST QUARTER CORNER OF SECTION 1, T9S, R1E, SALT LAKE BASE AND MERIDIAN ELEV. = 4880.90'

NOTICE TO CONTRACTOR

ALL CONTRACTORS AND SUBCONTRACTORS PERFORMING WORK SHOWN ON OR RELATED TO THESE PLANS SHALL CONDUCT THEIR OPERATIONS SO THAT ALL EMPLOYEES ARE PROVIDED A SAFE PLACE TO WORK AND THE PUBLIC IS PROTECTED. ALL CONTRACTORS AND SUBCONTRACTORS SHALL COMPLY WITH THE "OCCUPATIONAL SAFETY AND HEALTH REGULATIONS OF THE U.S. DEPARTMENT OF LABOR AND THE STATE OF UTAH DEPARTMENT OF INDUSTRIAL RELATIONS CONSTRUCTION SAFETY ORDERS." THE CIVIL ENGINEER SHALL NOT BE RESPONSIBLE IN ANY WAY FOR THE CONTRACTORS AND SUBCONTRACTORS COMPLIANCE WITH SAID REGULATIONS AND ORDERS.

CONTRACTOR FURTHER AGREES TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB-SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF 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 AND THE CIVIL 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 OR ENGINEER.

NOTICE TO DEVELOPER/CONTRACTOR

UNAPPROVED DRAWINGS REPRESENT WORK IN PROGRESS, ARE SUBJECT TO CHANGE, AND DO NOT CONSTITUTE A FINISHED ENGINEERING PRODUCT. ANY WORK UNDERTAKEN BY DEVELOPER OR CONTRACTOR BEFORE PLANS ARE APPROVED IS UNDERTAKEN AT THE SOLE RISK OF THE DEVELOPER, INCLUDING BUT NOT LIMITED TO BIDS, ESTIMATION, FINANCING, BONDING, SITE CLEARING, GRADING, INFRASTRUCTURE CONSTRUCTION, ETC.

UTILITY DISCLAIMER

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND / OR ELEVATIONS OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.



SALT LAKE CITY
 45 W. 10000 S., Suite 500
 Sandy, UT 84070
 Phone: 801.255.0529

LAYTON
 Phone: 801.547.1100

TOOELE
 Phone: 435.843.3590

CEDAR CITY
 Phone: 435.865.1453

RICHFIELD
 Phone: 435.896.2983

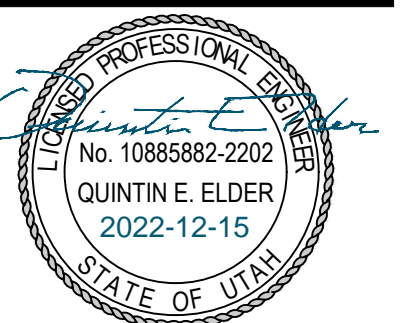
WWW.ENSIGNENG.COM

FOR:
 HOLIDAY OIL
 3115 WEST 2100 SOUTH
 WEST VALLEY CITY, UTAH
 CONTACT:
 SCOTT WAGSTAFF
 PHONE: 801-473-7002



HOLIDAY OIL SANTAQUIN

45 SOUTH 300 EAST
 SANTAQUIN, UTAH



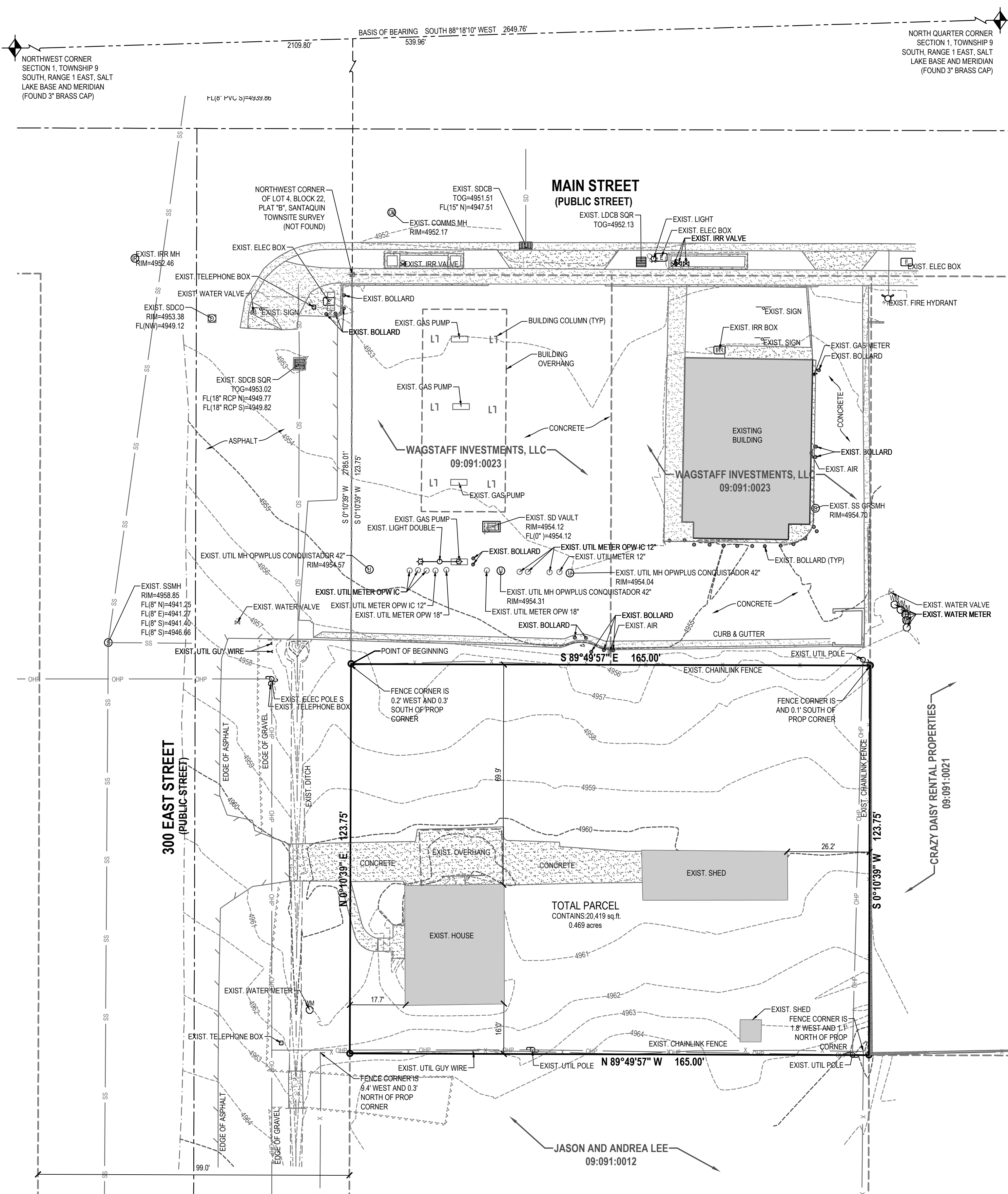
COVER SHEET

PROJECT NUMBER: 6458A
 PRINT DATE: 10/25/2022
 DRAWN BY: MM
 CHECKED BY: QRE
 PROJECT MANAGER: CGD

C000



BENCHMARK
 NORTH QUARTER CORNER OF SECTION 01,
 TOWNSHIP 9 SOUTH, RANGE 1 EAST,
 SALT LAKE BASE AND MERIDIAN
 ELEV = 4880.90'



LEGEND

	SECTION CORNER		ADJACENT RIGHT OF WAY
	MONUMENT		RIGHT OF WAY
	EXIST REBAR AND CAP		CENTERLINE
	SET ENSIGN REBAR AND CAP		PROPERTY LINE
	WATER METER		ADJACENT PROPERTY LINE
	WATER MANHOLE		DEED LINE
	WATER VALVE		TANGENT LINE
	FIRE HYDRANT		EXIST DITCH FLOW LINE
	SECONDARY WATER VALVE		FENCE
	IRRIGATION VALVE		EDGE OF ASPHALT
	SANITARY SEWER MANHOLE		SANITARY SEWER LINE
	STORM DRAIN CLEAN OUT		STORM DRAIN LINE
	STORM DRAIN CATCH BASIN		LAND DRAIN LINE
	STORM DRAIN COMBO BOX		CULINARY WATER LINE
	STORM DRAIN CULVERT		SECONDARY WATER LINE
	SIGN		IRRIGATION LINE
	ELECTRICAL BOX		OVERHEAD POWER LINE
	UTILITY MANHOLE		ELECTRICAL LINE
	UTILITY POLE		GAS LINE
	LIGHT		EXISTING CONTOURS
	CABLE BOX		CONCRETE
	TELEPHONE BOX		BUILDING
	GAS METER		PUBLIC DRAINAGE EASEMENT
	TREE		DENSE VEGETATION PREVENTING ACCESS FOR ACCURATE SURVEY
	SHRUB		

NOTE: MAY CONTAIN SYMBOLS THAT ARE NOT USED IN THIS PLAN SET.

SURVEYOR'S NARRATIVE

I, Patrick M. Harris do hereby state that I am a Professional Land Surveyor and that I hold certificate no. 286882 as prescribed by the laws of the State of Utah and represent that I have made a survey of the following described property. The Purpose of this survey is to provide an ALTA/NSPS Land Title and Topographic Survey for use by the client. The Basis of Bearing is the line between the North Quarter Corner of Section 1 and the Northwest Corner of Section 1, Township 9 South, Range 1 East, Salt Lake Base and Meridian, and measures South 88°18'10" West 2649.76 feet.

COMMITMENT DESCRIPTION

Commencing 7.50 rods South of the Northwest corner of Lot 4, Block 22, Plat "B", Santaquin Townsite Survey; thence East 10 rods; thence South 7.50 rods; thence West 10 rods; thence North 7.50 rods to the place of beginning.

AS-SURVEYED DESCRIPTION

A parcel of land situate in the Southwest Quarter of Section 1, Township 9 South, Range 1 East, Salt Lake Base and Meridian, being more particularly described as follows:

Beginning at a point on the Easterly Right-of-Way line of 300 East Street, said point being South 0°10'39" West 123.75 feet from the Northwest Corner of Lot 4, Block 22, Plat "B", Santaquin Townsite Survey, said point also being South 88°18'10" West 539.96 feet and South 0°10'39" West 2785.01 feet from the Northwest Quarter Corner of Section 1, Township 9 South, Range 1 East, Salt Lake Base and Meridian; and running

thence South 89°49'57" East 165.00 feet;
 thence South 00°10'39" West 123.75 feet;
 thence North 89°49'57" West 165.00 feet to the Easterly Right-of-Way line of 300 East Street;
 thence North 00°10'39" East 123.75 feet along said Easterly Right-of-Way line to the point of beginning.

Contains 20,419 Square Feet or 0.469 Acres.

FOR:
 HOLIDAY OIL
 3115 WEST 2100 SOUTH
 WEST VALLEY CITY, UTAH 84119

CONTACT:
 SCOTT WAGSTAFF
 PHONE: 801-873-7002

To: (i)Wagstaff Investments, LLC, and (ii)Old Republic National Title Insurance Company.

This is to certify that this map or plat and the survey on which it is based were made in accordance with 2021 Minimum Standard Detail Requirements for ALTA/NSPS Land Title Surveys, jointly established and adopted by ALTA and NSPS, and includes items 1, 2, 3, 4, 5, 8, 11, 13, 14, 16, 17, 18, and 19 of Table A thereof.

The fieldwork was completed on November 2, 2022.

Date of Plat or Map: November 7, 2022.

Date: 11/07/22

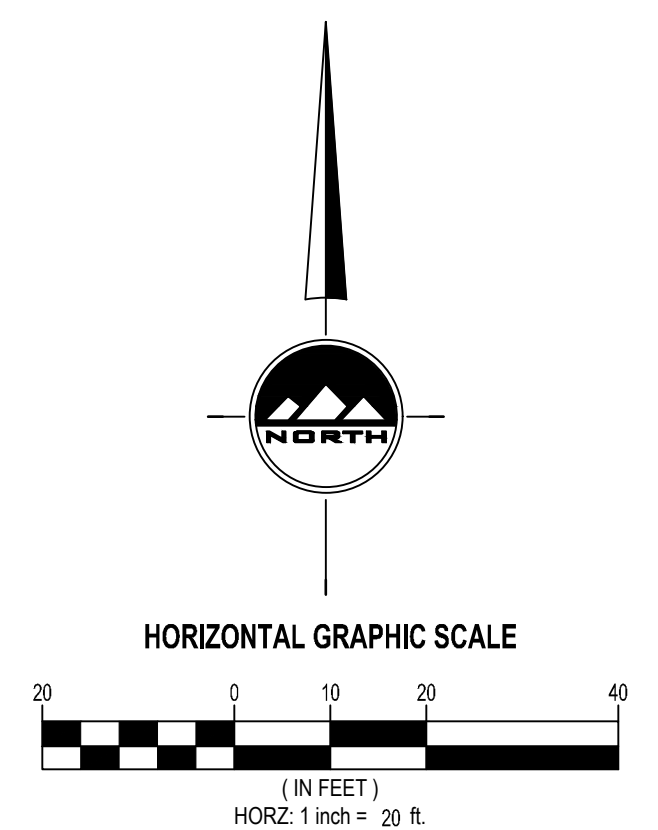
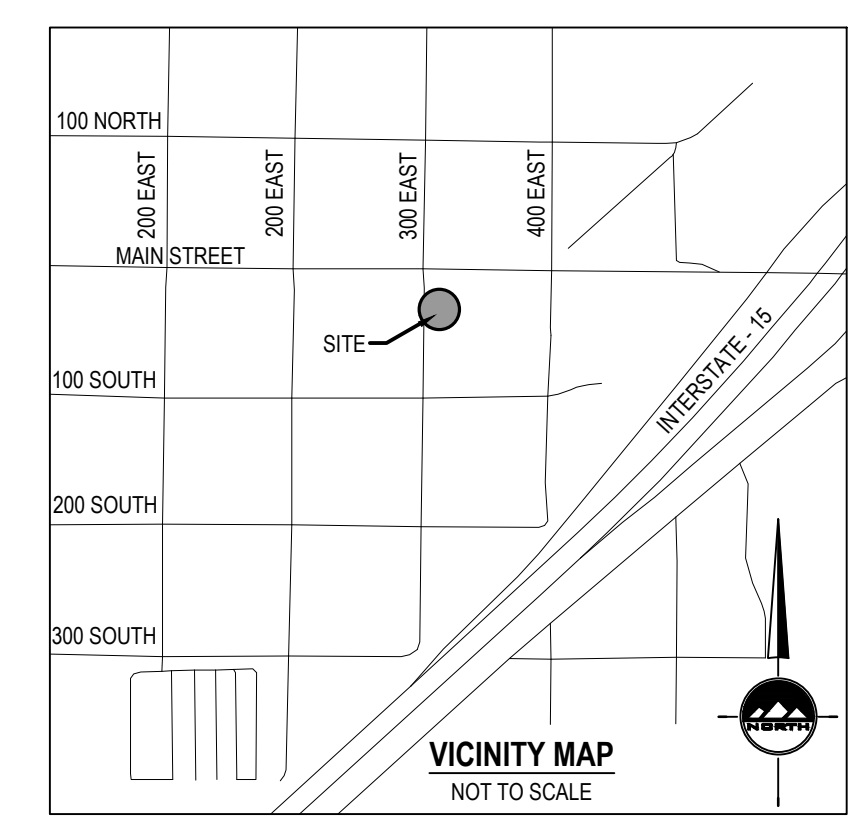
Patrick M. Harris
 License No. 286882

Note: For conditions of record not shown hereon as well as specific references to items in the title report, please refer to a title report supplied by Old Republic Title Insurance Company, of Orem, Utah under Commitment No. 2266547SM, dated effective May 3, 2022.

Schedule B-2 Exceptions

- 2022 General Property Taxes are accruing as a lien and are not yet due and payable. 2021 General Property Taxes have been PAID in the amount of \$ 1,449.34. Tax ID No. 09-091-0016
- Subject property is included within the boundaries of Tax District 190 and is subject to the charges and assessments thereof. For status of the account contact: - Santaquin (801-754-3211)
- Subject to all existing roads, street, alleys, ditches, reservoirs, utilities, canals, pipelines, power poles, telephone, sewer, gas or water lines and rights of way and easements thereof.
- Water rights, or claims or title to water.
- Deed of Trust
 Dated: October 6, 2021
 Trustor: Emmanuel Chavez
 Trustee: Highland Title
 Beneficiary: MERS, Inc., solely as nominee for Rock Canyon Bank
 Amount: \$180,000.00
 Recorded: October 12, 2021
 Entry No.: 174233-2021, of the Official Records
- Deed of Trust
 Dated: March 17, 2022
 Trustor: Emmanuel Chavez AKA Emmanuel Chavez-Rodriguez
 Trustee: America First Federal Credit Union
 Beneficiary: America First Federal Credit Union
 Amount: \$100,000.00
 Recorded: March 28, 2022
 Entry No.: 38352-2022, of the Official Records

- TABLE A**
- Monuments to be placed at all major corners of the boundary of the surveyed property.
 - Parcel address is 45 South 300 East, Santaquin Utah.
 - Parcel is located in Flood Zone X, per FEMA FIRM map 49049C0979F effective June 19, 2020.
 - Parcel contains 20,419 square feet or 0.469 acres.
 - Contours are shown at 1.0 foot intervals.
 - Utilities are shown on survey.
 - Adjacent owners are shown on survey
 - Distance to nearest intersecting street is shown on survey.
 - Subject parcels are currently under construction
 - No change to current street right-of-way at time of survey.
 - All portable easements are shown on survey.
 - Minimum amount of professional liability insurance has been met.



LOCATED IN THE SOUTHWEST QUARTER OF
 SECTION 1 TOWNSHIP 9 SOUTH, RANGE 1
 EAST SALT LAKE BASE AND MERIDIAN
 SANTAQUIN, UTAH COUNTY, UTAH

ENSIGN
 THE STANDARD IN ENGINEERING

SALT LAKE CITY
 45 W. 10000 S., Suite 500
 Sandy, UT 84070
 Phone: 801.255.0529

LAYTON
 Phone: 801.547.1100

TOOELE
 Phone: 435.843.3590

CEDAR CITY
 Phone: 435.865.1453

RICHFIELD
 Phone: 435.896.2983

WWW.ENSIGNENG.COM

FOR:
 HOLIDAY OIL
 3115 WEST 2100 SOUTH
 WEST VALLEY CITY, UTAH 84119

CONTACT:
 SCOTT WAGSTAFF
 PHONE: 801-873-7002

**HOLIDAY OIL - SANTAQUIN
 ALTA-NSPS LAND TITLE AND TOPOGRAPHIC SURVEY**
 45 SOUTH 300 EAST
 SANTAQUIN, UTAH

PROFESSIONAL LAND SURVEYOR
 No. 286882
 PATRICK M. HARRIS
 STATE OF UTAH

ALTA/NSPS
 LAND TITLE AND
 TOPOGRAPHIC SURVEY

PROJECT NUMBER: 6458A PRINT DATE: 11/7/22
 DRAWN BY: S. LEWIS CHECKED BY: P. HARRIS
 PROJECT MANAGER: P. HARRIS

1 OF 1

GENERAL NOTES

- ALL CONSTRUCTION MUST STRICTLY FOLLOW THE STANDARDS AND SPECIFICATIONS SET FORTH BY THE DESIGN ENGINEER, LOCAL AGENCY JURISDICTION, APWA (CURRENT EDITION), AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.). THE ORDER LISTED ABOVE IS ARRANGED BY SENIORITY. THE LATEST EDITION OF ALL STANDARDS AND SPECIFICATIONS MUST BE REFERRED TO. IF A CONSTRUCTION PRACTICE IS NOT SPECIFIED BY ANY OF THE ABOVE SOURCES, CONTRACTOR MUST CONTACT DESIGN ENGINEER FOR DIRECTION.
- CONTRACTOR TO STRICTLY FOLLOW THE MOST CURRENT COPY OF THE SOILS REPORT FOR THIS PROJECT. ALL GRADING INCLUDING BUT NOT LIMITED TO CUT, FILL, COMPACTION, ASPHALT SECTION, SUBBASE, TRENCH EXCAVATION/BACKFILL, SITE GRUBBING, AND FOOTINGS MUST BE COORDINATED DIRECTLY WITH SOILS REPORT.
- CONTRACTOR MUST VERIFY ALL EXISTING CONDITIONS BEFORE BIDDING, AND BRING UP ANY QUESTIONS BEFORE SUBMITTING BID.
- CONTRACTOR SHALL PROVIDE A CONSTRUCTION SCHEDULE IN ACCORDANCE WITH THE CITY, STATE, OR COUNTY REGULATIONS FOR WORKING IN THE PUBLIC WAY.
- CONTRACTOR SHALL BE RESPONSIBLE FOR DUST CONTROL ACCORDING TO GOVERNING AGENCY STANDARDS. WET DOWN DRY MATERIALS AND RUBBISH TO PREVENT BLOWING.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO ADJACENT SURFACE IMPROVEMENTS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING ANY SETTLEMENT OF OR DAMAGE TO EXISTING UTILITIES.
- THE CONTRACTOR IS RESPONSIBLE TO FURNISH ALL MATERIALS TO COMPLETE THE PROJECT.
- ALL EXPOSED SURFACES WILL HAVE A TEXTURED FINISH, RUBBED, OR BROOMED. ANY "PLASTERING" OF NEW CONCRETE WILL BE DONE WHILE IT IS STILL "GREEN".
- PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND OTHER DOCUMENTS APPROVED BY ALL OF THE PERMITTING AUTHORITIES.
- 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 TO LOCATE THEIR FACILITIES PRIOR TO PROCEEDING WITH CONSTRUCTION. NO ADDITIONAL COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR DAMAGE AND REPAIR TO THESE FACILITIES CAUSED BY HIS/HER WORK FORCE. CONTRACTOR SHALL START INSTALLATION AT LOW POINT OF ALL NEW GRAVITY UTILITY LINES.
- ALL DIMENSIONS, GRADES, AND UTILITY DESIGN SHOWN ON THE PLANS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER IF ANY DISCREPANCIES EXIST. 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 THE DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS, IF SUCH NOTIFICATION HAS NOT BEEN GIVEN.
- NO CHANGE IN DESIGN LOCATION OR GRADE WILL BE MADE BY THE CONTRACTOR WITHOUT THE WRITTEN APPROVAL OF THE PROJECT ENGINEER.
- NATURAL VEGETATION AND SOIL COVER SHALL NOT BE DISTURBED PRIOR TO ACTUAL CONSTRUCTION OF A REQUIRED FACILITY OR IMPROVEMENT. MASS CLEARINGS OF THE SITE IN ANTICIPATION OF CONSTRUCTION SHALL BE AVOIDED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING, MAINTAINING, OR RESTORING ALL MONUMENTS AND MONUMENT REFERENCE MARKS WITHIN THE PROJECT SITE. CONTACT THE CITY OR COUNTY SURVEYOR FOR MONUMENT LOCATIONS AND CONSTRUCTION DETAILS.
- EXISTING UTILITY INFORMATION SHOWN IS FOR INFORMATIONAL PURPOSES ONLY. IT IS DERIVED FROM ON-SITE SURVEY AND/OR UTILITY MAPPING PROVIDED TO THE ENGINEER, AND THEREFORE UTILITIES MAY NOT BE LOCATED CORRECTLY, EITHER HORIZONTALLY OR VERTICALLY, AND MAY NOT BE ALL INCLUSIVE. CONTRACTOR IS REQUIRED TO FOLLOW THE PROCEDURE OUTLINED BELOW.
 - CONTRACTOR IS REQUIRED TO LOCATE AND POTHOLE ALL EXISTING UTILITY LINES (BOTH HORIZONTALLY AND VERTICALLY) THAT AFFECT THE PROJECT CONSTRUCTION, EITHER ON-SITE OR OFF-SITE, AND DETERMINE IF THERE ARE ANY CONFLICTS WITH THE DESIGN OF THE SITE AS SHOWN ON THE APPROVED PLANS PRIOR TO ANY CONSTRUCTION. IF IT IS DETERMINED THAT CONFLICTS EXIST BETWEEN EXISTING UTILITIES AND DESIGN UTILITIES (OR ANOTHER ASPECT OF PROPOSED CONSTRUCTION) THE ENGINEER MUST BE NOTIFIED IMMEDIATELY TO CORRECT THE CONFLICTS BEFORE ANY WORK CAN BEGIN. IF THE CONTRACTOR FAILS TO FOLLOW THIS ABSOLUTE REQUIREMENT AND CONFLICTS ARISE DURING CONSTRUCTION THE CONTRACTOR WILL BEAR THE SOLE RESPONSIBILITY TO FIX THE CONFLICTS.
 - CONTRACTOR IS REQUIRED TO VERIFY THAT PROPER COVER AND PROTECTION OF EXISTING UTILITY LINES IS MAINTAINED OR ATTAINED WITHIN THE DESIGN ONCE VERIFICATION OF THE EXISTING UTILITIES IS COMPLETED AS OUTLINED IN 16.1 ABOVE.
 - IN ADDITION TO 16.1 AND 16.2 ABOVE THE CONTRACTOR WILL VERIFY DEPTHS OF UTILITIES IN THE FIELD BY "PROBING" A MINIMUM OF 300 FEET AHEAD OF PROPOSED PIPELINE CONSTRUCTION TO AVOID POTENTIAL CONFLICTS WITH DESIGNATED PIPELINE ALIGNMENT AND GRADE AND EXISTING UTILITIES.
 - IF A CONFLICT ARISES BETWEEN EXISTING UTILITIES AND DESIGN UTILITIES (OR ANOTHER ASPECT OF PROPOSED CONSTRUCTION) AS DETERMINED UNDER 16.1, 16.2 OR 16.3 THE CONTRACTOR WILL NOTIFY THE ENGINEER IMMEDIATELY TO RESOLVE THE CONFLICT.
 - IF A CONFLICT ARISES BETWEEN EXISTING UTILITIES AND DESIGN UTILITIES (OR ANOTHER ASPECT OF PROPOSED CONSTRUCTION) RESULTING FROM THE CONTRACTOR'S NEGLIGENCE TO IDENTIFY AND/OR "POTHOLE" EXISTING UTILITIES AS REQUIRED IN 16.1, 16.2 AND 16.3 ABOVE, THE CONTRACTOR WILL BE REQUIRED TO RESOLVE THE CONFLICT WITHOUT ADDITIONAL COST OR CLAIM TO THE OWNER OR ENGINEER.
- ANY AREA OUTSIDE THE LIMIT OF WORK THAT IS DISTURBED SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO COST TO OWNER.
- CONSULT ALL OF THE DRAWINGS AND SPECIFICATIONS FOR COORDINATION REQUIREMENTS BEFORE COMMENCING CONSTRUCTION.
- AT ALL LOCATIONS WHERE EXISTING PAVEMENT ABUTS NEW CONSTRUCTION, THE EDGE OF THE EXISTING PAVEMENT SHALL BE SAWCUT TO A CLEAN, SMOOTH EDGE.
- ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE MOST RECENT, ADOPTED EDITION OF ADA ACCESSIBILITY GUIDELINES.
- CONTRACTOR SHALL, AT THE TIME OF BIDDING AND THROUGHOUT THE PERIOD OF THE CONTRACT, BE LICENSED IN THE STATE OF UTAH AND SHALL BE BONDABLE FOR AN AMOUNT REQUIRED BY THE OWNER.
- CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL WATER, POWER, SANITARY FACILITIES AND TELEPHONE SERVICES AS REQUIRED FOR THE CONTRACTOR'S USE DURING CONSTRUCTION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATELY SCHEDULING INSPECTION AND TESTING OF ALL FACILITIES CONSTRUCTED UNDER THIS CONTRACT. ALL TESTING SHALL CONFORM TO THE REGULATORY AGENCY'S STANDARD SPECIFICATIONS. ALL RE-TESTING AND/OR RE-INSPECTION SHALL BE PAID FOR BY THE CONTRACTOR.
- IF EXISTING IMPROVEMENTS NEED TO BE DISTURBED AND/OR REMOVED FOR THE PROPER PLACEMENT OF IMPROVEMENTS TO BE CONSTRUCTED BY THESE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXISTING IMPROVEMENTS FROM DAMAGE. COST OF REPLACING OR REPAIRING EXISTING IMPROVEMENTS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEMS REQUIRING REMOVAL AND/OR REPLACEMENT. THERE WILL BE NO EXTRA COST DUE TO THE CONTRACTOR FOR REPLACING OR REPAIRING EXISTING IMPROVEMENTS.
- WHENEVER EXISTING FACILITIES ARE REMOVED, DAMAGED, BROKEN, OR CUT IN THE INSTALLATION OF THE WORK COVERED BY THESE PLANS OR SPECIFICATIONS, SAID FACILITIES SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE WITH MATERIALS EQUAL TO OR BETTER THAN THE MATERIALS USED IN THE ORIGINAL EXISTING FACILITIES. THE FINISHED PRODUCT SHALL BE SUBJECT TO THE APPROVAL OF THE OWNER, THE ENGINEER, AND THE RESPECTIVE REGULATORY AGENCY.
- CONTRACTOR SHALL MAINTAIN A NEATLY MARKED SET OF FULL-SIZE RECORD DRAWINGS SHOWING THE FINAL LOCATION AND LAYOUT OF ALL STRUCTURES AND OTHER FACILITIES. RECORD DRAWINGS SHALL REFLECT CHANGE ORDERS, ACCOMMODATIONS, AND ADJUSTMENTS TO ALL IMPROVEMENTS CONSTRUCTED. WHERE NECESSARY, SUPPLEMENTAL DRAWINGS SHALL BE PREPARED AND SUBMITTED BY THE CONTRACTOR, PRIOR TO ACCEPTANCE OF THE PROJECT. THE CONTRACTOR SHALL DELIVER TO THE ENGINEER ONE SET OF NEATLY MARKED RECORD DRAWINGS SHOWING THE INFORMATION REQUIRED ABOVE. RECORD DRAWINGS SHALL BE REVIEWED AND THE COMPLETE RECORD DRAWING SET SHALL BE CURRENT WITH ALL CHANGES AND DEVIATIONS REDLINED AS A PRECONDITION TO THE FINAL PROGRESS PAYMENT APPROVAL AND/OR FINAL ACCEPTANCE.
- WHERE THE PLANS OR SPECIFICATIONS DESCRIBE PORTIONS OF THE WORK IN GENERAL TERMS BUT NOT IN COMPLETE DETAIL, IT IS UNDERSTOOD THAT ONLY THE BEST GENERAL PRACTICE IS TO PREVAIL AND THAT ONLY MATERIALS AND WORKMANSHIP OF THE FIRST QUALITY ARE TO BE USED.
- ALL EXISTING GATES AND FENCES TO REMAIN UNLESS OTHERWISE NOTED ON PLANS. PROTECT ALL GATES AND FENCES FROM DAMAGE.
- ALL EXISTING TREES ARE TO REMAIN UNLESS OTHERWISE NOTED ON PLANS. PROTECT ALL TREES FROM DAMAGE.
- ASPHALT MIX DESIGN MUST BE SUBMITTED AND APPROVED BY THE GOVERNING AGENCY PRIOR TO THE PLACEMENT.
- CONTRACTORS ARE RESPONSIBLE FOR ALL OSHA REQUIREMENTS ON THE PROJECT SITE.
- A UPDES (UTAH POLLUTANT DISCHARGE ELIMINATION SYSTEM) PERMIT IS REQUIRED FOR ALL CONSTRUCTION ACTIVITIES 1 ACRE OR MORE AS WELL AS A STORM WATER POLLUTION PREVENTION PLAN.

UTILITY NOTES

- ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THESE CONTRACT DOCUMENTS, CITY AND STATE REQUIREMENTS AND THE MOST RECENT EDITIONS OF THE FOLLOWING: THE INTERNATIONAL PLUMBING CODE, UTAH DRINKING WATER REGULATIONS, APWA MANUAL OF STANDARD PLANS AND SPECIFICATIONS. THE CONTRACTOR IS REQUIRED TO ADHERE TO ALL OF THE ABOVE-MENTIONED DOCUMENTS UNLESS OTHERWISE NOTED AND APPROVED BY THE ENGINEER.
- CONTRACTOR SHALL COORDINATE LOCATION OF NEW "DRY UTILITIES" WITH THE APPROPRIATE UTILITY COMPANY, INCLUDING BUT NOT LIMITED TO: TELEPHONE & INTERNET SERVICE, GAS SERVICE, CABLE, AND POWER.
- EXISTING UTILITIES HAVE BEEN SHOWN ON THE PLANS BASED ON ON-SITE SURVEY. PRIOR TO COMMENCING ANY WORK, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO HAVE EACH UTILITY COMPANY LOCATE, IN THE FIELD, THEIR MAIN AND SERVICE LINES. THE CONTRACTOR SHALL NOTIFY BLUE STAKES AT 1-800-962-4111 48 HOURS IN ADVANCE OF PERFORMING ANY EXCAVATION WORK. THE CONTRACTOR SHALL RECORD THE BLUE STAKES ORDER NUMBER AND FURNISH ORDER NUMBER TO OWNER AND ENGINEER PRIOR TO ANY EXCAVATION. IT WILL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO DIRECTLY CONTACT ANY OTHER UTILITY COMPANIES THAT ARE NOT MEMBERS OF BLUE STAKES. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO PROTECT ALL EXISTING UTILITIES SO THAT NO DAMAGE RESULTS TO THEM DURING THE PERFORMANCE OF THIS CONTRACT. ANY REPAIRS NECESSARY TO DAMAGED UTILITIES SHALL BE PAID FOR BY THE CONTRACTOR. THE CONTRACTOR SHALL BE REQUIRED TO COOPERATE WITH OTHER CONTRACTORS AND UTILITY COMPANIES INSTALLING NEW STRUCTURES, UTILITIES AND SERVICE TO THE PROJECT.
- CARE SHOULD BE TAKEN IN ALL EXCAVATIONS DUE TO POSSIBLE EXISTENCE OF UNRECORDED UTILITY LINES. EXCAVATION REQUIRED WITHIN PROXIMITY OF EXISTING UTILITY LINES SHALL BE DONE BY HAND. CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING UTILITY LINES OR STRUCTURES INCURRED DURING CONSTRUCTION OPERATIONS AT CONTRACTOR'S EXPENSE.
- TRENCH BACKFILL MATERIAL AND COMPACTION TESTS ARE TO BE TAKEN PER APWA STANDARD SPECIFICATIONS (CURRENT EDITION), SECTION 0230 - BACKFILLING TRENCHES, OR AS REQUIRED BY THE GEOTECHNICAL REPORT IF NATIVE MATERIALS ARE USED. NO NATIVE MATERIALS ARE ALLOWED IN THE PIPE ZONE. THE MAXIMUM LIFT FOR BACKFILLING EXCAVATIONS IS DETERMINED BY THE GEOTECHNICAL RECOMMENDATIONS.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONFORMING TO LOCAL AND FEDERAL CODES GOVERNING SHORING AND BRACING OF EXCAVATIONS AND TRENCHES AND FOR THE PROTECTION OF WORKERS.
- THE 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. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN PERMISSION AND/OR EASEMENTS FROM THE APPROPRIATE GOVERNING ENTITY AND/OR INDIVIDUAL PROPERTY OWNER(S) FOR WORK OR STAGING OUTSIDE OF THE PROJECT LIMITS.
- THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE, CAUSED BY ANY CONDITION INCLUDING SETTLEMENT, TO EXISTING UTILITIES FROM WORK PERFORMED AT OR NEAR EXISTING UTILITIES. THE CONTRACTOR SHALL TAKE ALL MEASURES NECESSARY TO PROTECT ALL EXISTING PUBLIC AND PRIVATE ROADWAY AND UTILITY FACILITIES. DAMAGE TO EXISTING FACILITIES CAUSED BY THE CONTRACTOR MUST BE REPAIRED BY THE CONTRACTOR AT HIS/HER EXPENSE TO THE SATISFACTION OF THE OWNER OF SAID FACILITIES.
- ALL WATER LINE AND SEWER LINE INSTALLATION AND TESTING TO BE IN ACCORDANCE WITH LOCAL GOVERNING AGENCY'S STANDARDS AND SPECIFICATIONS.
- ALL MANHOLES, HYDRANTS, VALVES, CLEANOUT BOXES, CATCH BASINS, METERS, ETC. MUST BE RAISED OR LOWERED TO FINAL GRADE PER APWA (CURRENT EDITION) STANDARDS AND INSPECTOR REQUIREMENTS. CONCRETE COLLARS MUST BE CONSTRUCTED ON ALL MANHOLES, CLEANOUT BOXES, CATCH BASINS, AND VALVES PER APWA STANDARDS. ALL MANHOLE, CATCH BASIN, OR CLEANOUT BOX CONNECTIONS MUST BE MADE WITH THE PIPE CUT FLUSH WITH THE INSIDE OF THE BOX AND GROUTED OR SEALED.
- CONTRACTOR SHALL NOT ALLOW ANY GROUNDWATER OR DEBRIS TO ENTER THE NEW OR EXISTING PIPE DURING CONSTRUCTION.
- SILT AND DEBRIS ARE TO BE CLEANED OUT OF ALL STORM DRAIN BOXES. CATCH BASINS ARE TO BE MAINTAINED IN A CLEANED CONDITION AS NEEDED UNTIL AFTER THE FINAL BOND RELEASE INSPECTION.
- CONTRACTOR SHALL CLEAN ASPHALT, TAR OR OTHER ADHESIVES OFF OF ALL MANHOLE LIDS AND INLET GRATES TO ALLOW ACCESS.
- EACH TRENCH SHALL BE EXCAVATED SO THAT THE PIPE CAN BE LAID TO THE ALIGNMENT AND GRADE AS REQUIRED. THE TRENCH WALL SHALL BE SO BRACED THAT THE WORKMEN MAY WORK SAFELY AND EFFICIENTLY. ALL TRENCHES SHALL BE DRAINED SO THE PIPE LAYING MAY TAKE PLACE IN DEWATERED CONDITIONS.
- CONTRACTOR SHALL PROVIDE AND MAINTAIN AT ALL TIMES AMPLE MEANS AND DEVICES WITH WHICH TO REMOVE PROMPTLY AND TO PROPERLY DISPOSE OF ALL WATER ENTERING THE TRENCH EXCAVATION.
- ALL SEWER LINES AND SEWER SERVICES SHALL HAVE A MINIMUM SEPARATION OF 10 FEET, EDGE TO EDGE, FROM THE WATER LINES. IF A 10 FOOT SEPARATION CAN NOT BE MAINTAINED, CONSTRUCT PER GOVERNING AGENCY'S MINIMUM SEPARATION STANDARDS.
- CONTRACTOR SHALL INSTALL THRUST BLOCKING AT ALL WATERLINE ANGLE POINTS AND TEES.
- ALL UNDERGROUND UTILITIES SHALL BE IN PLACE PRIOR TO INSTALLATION OF CURB, GUTTER, SIDEWALK AND STREET PAVING.
- CONTRACTOR SHALL INSTALL MAGNETIC LOCATING TAPE CONTINUOUSLY OVER ALL NONMETALLIC PIPE.

TRAFFIC CONTROL AND SAFETY NOTES

- TRAFFIC CONTROL AND STRIPING TO CONFORM TO THE CURRENT MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.).
- BARRICADING AND DETOURING SHALL BE IN CONFORMANCE WITH THE REQUIREMENTS OF THE CURRENT M.U.T.C.D.
- NO STREET SHALL BE CLOSED TO TRAFFIC WITHOUT WRITTEN PERMISSION FROM THE APPROPRIATE AGENCY, EXCEPT WHEN DIRECTED BY LAW ENFORCEMENT OR FIRE OFFICIALS.
- THE CONTRACTOR SHALL MAKE EVERY EFFORT TO PROVIDE FOR SMOOTH TRAFFIC FLOW AND SAFETY. ACCESS SHALL BE MAINTAINED FOR ALL PROPERTIES ADJACENT TO THE WORK.
- DETOURING OPERATIONS FOR A PERIOD OF SIX CONSECUTIVE CALENDAR DAYS, OR MORE, REQUIRE THE INSTALLATION OF TEMPORARY STREET STRIPING AND REMOVAL OF INTERFERING STRIPING BY SANDBLASTING. THE DETOURING STRIPING PLAN OR CONSTRUCTION TRAFFIC CONTROL PLAN MUST BE SUBMITTED TO THE GOVERNING AGENCY FOR REVIEW AND APPROVAL.
- ALL TRAFFIC CONTROL DEVICES SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT THE END OF THE WORK TO THE SATISFACTION OF THE GOVERNING AGENCY.
- TRAFFIC CONTROL DEVICES (TCDs) SHALL REMAIN VISIBLE AND OPERATIONAL AT ALL TIMES.
- ALL PERMANENT TRAFFIC CONTROL DEVICES CALLED FOR HEREON SHALL BE IN PLACE AND IN FINAL POSITION PRIOR TO ALLOWING ANY PUBLIC TRAFFIC ONTO THE PORTIONS OF THE ROAD(S) BEING IMPROVED HEREUNDER, REGARDLESS OF THE STATUS OF COMPLETION OF PAVING OR OTHER OFF-SITE IMPROVEMENTS CALLED FOR BY THESE PLANS.
- THE CONTRACTOR SHALL PROVIDE BARRICADES, SIGNS, FLASHERS, OTHER EQUIPMENT AND FLAG PERSONS NECESSARY TO INSURE THE SAFETY OF WORKERS AND VISITORS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING UTAH TRANSIT AUTHORITY (UTA) IF THE CONSTRUCTION INTERRUPTS OR RELOCATES A BUS STOP OR HAS AN ADVERSE EFFECT ON BUS SERVICE ON THAT STREET TO ARRANGE FOR TEMPORARY RELOCATION OF STOP.

DEMOLITION NOTES

- EXISTING UTILITY INFORMATION SHOWN IS FOR INFORMATIONAL PURPOSES ONLY. IT IS DERIVED FROM ON-SITE SURVEY AND MAY NOT BE LOCATED CORRECTLY AND IS NOT ALL INCLUSIVE. CONTRACTOR SHALL FIELD LOCATE ALL UTILITIES WITHIN THE PROJECT LIMITS BEFORE BEGINNING DEMOLITION/CONSTRUCTION.
- THERE MAY BE BURIED UTILITIES WITHIN THE LIMITS OF DISTURBANCE THAT ARE NOT SHOWN ON THE PLANS DUE TO LACK OF MAPPING OR RECORD INFORMATION. CONTRACTOR SHALL NOTIFY THE ENGINEER WHEN UNEXPECTED UTILITIES ARE DISCOVERED.
- THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR LOCATING AND PROTECTING FROM DAMAGE ALL EXISTING UTILITIES AND IMPROVEMENTS WHETHER OR NOT SHOWN ON THESE PLANS. THE FACILITIES AND IMPROVEMENTS ARE BELIEVED TO BE CORRECTLY SHOWN BUT THE CONTRACTOR IS REQUIRED TO SATISFY HIMSELF AS TO THE COMPLETENESS AND ACCURACY OF THE LOCATIONS. ANY CONTRACTOR PERFORMING WORK ON THIS PROJECT SHALL FAMILIARIZE HIMSELF WITH THE SITE AND SHALL BE HELD SOLELY RESPONSIBLE FOR ANY DAMAGE TO EXISTING FACILITIES RESULTING DIRECTLY, OR INDIRECTLY, FROM HIS/HER OPERATIONS, WHETHER OR NOT SAID FACILITIES ARE SHOWN ON THESE PLANS.

GRADING AND DRAINAGE NOTES

- SITE GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE REQUIREMENTS AND THE MOST RECENT EDITIONS OF THE GEOTECHNICAL REPORT AND ALL RELATED APPENDUMS.
- THE CONTRACTOR SHALL STRIP AND CLEAR THE TOPSOIL, MAJOR ROOTS AND ORGANIC MATERIAL FROM ALL PROPOSED BUILDING AND PAVEMENT AREAS PRIOR TO SITE GRADING. (THE TOPSOIL MAY BE STOCKPILED FOR LATER USE IN LANDSCAPED AREAS.)
- THE CONTRACTOR SHALL REMOVE ALL ORGANIC MATERIAL AND OTHER DELETERIOUS MATERIALS PRIOR TO PLACING GRADING FILL OR BASE COURSE. THE AREA SHOULD BE PROOF-ROLLED TO IDENTIFY ANY SOFT AREAS. WHERE SOFT AREAS ARE ENCOUNTERED, THE CONTRACTOR SHALL REMOVE THE SOIL AND REPLACE WITH COMPACTED FILL.
- ALL DEBRIS PILES AND BERMS SHOULD BE REMOVED AND HAULED AWAY FROM SITE OR USED AS GENERAL FILL IN LANDSCAPED AREAS.
- THE CONTRACTOR SHALL CONSTRUCT THE BUILDING PAD TO THESE DESIGN PLANS AS PART OF THE SITE GRADING CONTRACT AND STRICTLY ADHERE TO THE SITE PREPARATION AND GRADING REQUIREMENTS OUTLINED IN THE GEOTECHNICAL REPORT.
- THE CONTRACTOR SHALL GRADE THE PROJECT SITE TO PROVIDE A SMOOTH TRANSITION BETWEEN NEW AND EXISTING ASPHALT, CURB AND GUTTER, AND ADJOINING SITE IMPROVEMENTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE AND DEBRIS ON ADJACENT STREETS WHEN EQUIPMENT IS TRAVELING THOSE STREETS.
- THE CONTRACTOR SHALL BE FAMILIAR WITH ALL CONDITIONS AND RECOMMENDATIONS OUTLINED IN THE GEOTECHNICAL REPORT AND TAKE ALL NECESSARY PRECAUTIONS AND RECOMMENDED PROCEDURES TO ASSURE SOUND GRADING PRACTICES.
- THE CONTRACTOR SHALL TAKE APPROPRIATE GRADING MEASURES TO DIRECT STORM SURFACE RUNOFF TOWARDS CATCH BASINS.
- THE LOCATIONS OF UNDERGROUND FACILITIES SHOWN ON THESE PLANS ARE BASED ON ON-SITE SURVEY. IT SHALL BE THE CONTRACTOR'S FULL RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES TO LOCATE THEIR FACILITIES PRIOR TO PROCEEDING WITH CONSTRUCTION. NO ADDITIONAL COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR DAMAGE AND REPAIR TO THESE FACILITIES CAUSED BY HIS/HER WORK FORCE.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM ALL NECESSARY CUTS AND FILLS WITHIN THE LIMITS OF THIS PROJECT AND THE RELATED OFF-SITE WORK, SO AS TO GENERATE THE DESIRED SUBGRADE, FINISH GRADES, AND SLOPES SHOWN.
- THE CONTRACTOR IS WARNED THAT AN EARTHWORK BALANCE WAS NOT NECESSARILY THE INTENT OF THIS PROJECT. ANY ADDITIONAL MATERIAL REQUIRED OR LEFTOVER MATERIAL FOLLOWING EARTHWORK OPERATIONS BECOMES THE RESPONSIBILITY OF THE CONTRACTOR.
- THE GRADING CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH THE OWNER TO PROVIDE FOR THE REQUIREMENTS OF THE PROJECT STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND ASSOCIATED PERMIT. ALL CONTRACTOR ACTIVITIES 1 ACRE OR MORE IN SIZE ARE REQUIRED TO PROVIDE A STORM WATER POLLUTION PREVENTION PLAN.
- ALL CUT AND FILL SLOPES SHALL BE PROTECTED UNTIL EFFECTIVE EROSION CONTROL HAS BEEN ESTABLISHED.
- THE USE OF POTABLE WATER WITHOUT A SPECIAL PERMIT FOR BUILDING OR CONSTRUCTION PURPOSES INCLUDING CONSOLIDATION OF BACKFILL OR DUST CONTROL, IS PROHIBITED. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FOR CONSTRUCTION WATER FROM GOVERNING AGENCY.
- THE CONTRACTOR SHALL MAINTAIN THE STREETS, SIDEWALKS, AND ALL OTHER PUBLIC RIGHT-OF-WAYS IN A CLEAN, SAFE AND USABLE CONDITION. ALL SPILLS OF SOIL, ROCK OR CONSTRUCTION DEBRIS SHALL BE PROMPTLY REMOVED FROM THE PUBLICLY-OWNED PROPERTY DURING CONSTRUCTION AND UPON COMPLETION OF THE PROJECT. ALL ADJACENT PROPERTY, PRIVATE OR PUBLIC, SHALL BE MAINTAINED IN A CLEAN, SAFE, AND USABLE CONDITION.

ABBREVIATIONS

APWA	AMERICAN PUBLIC WORKS ASSOCIATION
AR	ACCESSIBLE ROUTE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AHWA	AMERICAN WATER WORKS ASSOCIATION
BOS	BOTTOM OF STEP
BVC	BEGIN VERTICAL CURVE
C	CURVE
CB	CATCH BASIN
CF	CURB FACE OR CUBIC FEET
CL	CENTER LINE
CO	CLEAN OUT
COMM	COMMUNICATION
CONC	CONCRETE
CONT	CONTINUOUS
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
ELEC	ELECTRICAL
ELEV	ELEVATION
EOA	EDGE OF ASPHALT
EVC	END OF VERTICAL CURVE
EW	EACH WAY
EXIST	EXISTING
FF	FINISH FLOOR
FG	FINISH GRADE
FH	FIRE HYDRANT
FL	FLOW LINE OR FLANGE
GB	GRADE BREAK
GF	GARAGE FLOOR
GV	GATE VALVE
HC	HANDICAP
HP	HIGH POINT
IRR	IRRIGATION
K	RATE OF VERTICAL CURVATURE
LD	LAND DRAIN
LF	LINEAR FEET
LP	LOW POINT
ME	MATCH EXISTING
MH	MANHOLE
MJ	MECHANICAL JOINT
NG	NATURAL GROUND
NIC	NOT IN CONTRACT
NO	NUMBER
OC	ON CENTER
OCEW	ON CENTER EACH WAY
OHP	OVERHEAD POWER
PC	POINT OF CURVATURE OR PRESSURE CLASS
PCC	POINT OF COMPOUND CURVATURE
PI	POINT OF INTERSECTION
PV	POST INDICATOR VALVE
PL	PROPERTY LINE
PRC	POINT OF REVERSE CURVATURE
PRO	PROPOSED
PT	POINT OF TANGENCY
PVC	POINT OF VERTICAL CURVATURE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENCY
R	RADIUS
RD	ROOF DRAIN
ROW	RIGHT OF WAY
S	SLOPE
SS	SANITARY SEWER
SD	STORM DRAIN
SEC	SECONDARY
SS	SANITARY SEWER
STA	STATION
SW	SECONDARY WATER LINE
TBC	TOP BACK OF CURB
TOG	TOP OF GRATE
TOA	TOP OF ASPHALT
TOC	TOP OF CONCRETE
TOF	TOP OF FOUNDATION
TOW	TOP OF WALL
TOS	TOP OF STEP
TYP	TYPICAL
VC	VERTICAL CURVE
WV	WALL INDICATOR VALVE
W	WATER LINE

NOTE: MAY CONTAIN ABBREVIATIONS THAT ARE NOT USED IN THIS PLAN SET.

LEGEND

	SECTION CORNER		EXISTING EDGE OF ASPHALT
	EXISTING MONUMENT		PROPOSED EDGE OF ASPHALT
	PROPOSED MONUMENT		EXISTING STRIPING
	EXISTING REBAR AND CAP		PROPOSED STRIPING
	SET ENSIGN REBAR AND CAP		EXISTING FENCE
	EXISTING WATER METER		PROPOSED FENCE
	PROPOSED WATER METER		EXISTING FLOW LINE
	EXISTING WATER MANHOLE		PROPOSED FLOW LINE
	PROPOSED WATER MANHOLE		GRADE BREAK
	EXISTING WATER BOX		EXISTING STORM DRAIN LINE
	EXISTING WATER VALVE		PROPOSED STORM DRAIN LINE
	PROPOSED WATER VALVE		ROOF DRAIN LINE
	EXISTING FIRE HYDRANT		CATCHMENTS
	PROPOSED FIRE HYDRANT		HIGHWATER LINE
	PROPOSED FIRE DEPARTMENT CONNECTION		EXISTING SANITARY SEWER
	EXISTING SECONDARY WATER VALVE		PROPOSED SANITARY SEWER LINE
	PROPOSED SECONDARY WATER VALVE		PROPOSED SAN. SWR. SERVICE LINE
	EXISTING IRRIGATION BOX		EXISTING LAND DRAIN LINE
	EXISTING IRRIGATION VALVE		PROPOSED LAND DRAIN LINE
	PROPOSED IRRIGATION VALVE		PROPOSED LAND DRAIN SERVICE LINE
	EXISTING SANITARY SEWER MANHOLE		EXISTING CULINARY WATER LINE
	PROPOSED SANITARY SEWER MANHOLE		PROPOSED CULINARY WATER LINE
	EXISTING SANITARY CLEAN OUT		PROPOSED CULINARY WATER SERVICE LINE
	EXISTING STORM DRAIN CLEAN OUT BOX		EXISTING SECONDARY WATER LINE
	PROPOSED STORM DRAIN CLEAN OUT BOX		PROPOSED SECONDARY WATER LINE
	EXISTING STORM DRAIN INLET BOX		PROPOSED SEC. WATER SERVICE LINE
	EXISTING STORM DRAIN CATCH BASIN		EXISTING IRRIGATION LINE
	PROPOSED STORM DRAIN CATCH BASIN		PROPOSED IRRIGATION LINE
	EXISTING STORM DRAIN COMBO BOX		EXISTING OVERHEAD POWER LINE
	PROPOSED STORM DRAIN COMBO BOX		EXISTING ELECTRICAL LINE
	EXISTING STORM DRAIN CLEAN OUT		EXISTING GAS LINE
	EXISTING STORM DRAIN CULVERT		EXISTING TELEPHONE LINE
	PROPOSED STORM DRAIN CULVERT		ACCESSIBLE ROUTE
	TEMPORARY SAG INLET PROTECTION		SAW OUT LINE
	TEMPORARY IN-LINE INLET PROTECTION		STRAW WATTLE
	ROOF DRAIN		TEMPORARY BERM
	EXISTING ELECTRICAL MANHOLE		TEMPORARY SILT FENCE
	EXISTING ELECTRICAL BOX		LIMITS OF DISTURBANCE
	EXISTING TRANSFORMER		EXISTING WALL
	EXISTING UTILITY POLE		PROPOSED WALL
	EXISTING LIGHT		EXISTING CONTOURS
	PROPOSED LIGHT		PROPOSED CONTOURS
	EXISTING GAS METER		BUILDABLE AREA WITHIN SETBACKS
	EXISTING GAS MANHOLE		PUBLIC DRAINAGE EASEMENT
	EXISTING GAS VALVE		EXISTING ASPHALT TO BE REMOVED
	EXISTING TELEPHONE MANHOLE		PROPOSED ASPHALT
	EXISTING TELEPHONE BOX		EXISTING CURB AND GUTTER
	EXISTING TRAFFIC SIGNAL BOX		PROPOSED CURB AND GUTTER
	EXISTING CABLE BOX		PROPOSED REVERSE PAN CURB AND GUTTER
	EXISTING BOLLARD		TRANSITION TO REVERSE PAN CURB
	PROPOSED BOLLARD		CONCRETE TO BE REMOVED
	EXISTING SIGN		EXISTING CONCRETE
	PROPOSED SIGN		PROPOSED CONCRETE
	EXISTING SPOT ELEVATION		BUILDING TO BE REMOVED
	PROPOSED SPOT ELEVATION		EXISTING BUILDING
	EXISTING FLOW DIRECTION		PROPOSED BUILDING
	EXISTING TREE		
	DENSE VEGETATION		

NOTE: MAY CONTAIN SYMBOLS THAT ARE NOT USED IN THIS PLAN SET.



SALT LAKE CITY
415 W. 10000 S., Suite 500
Sandy, UT 84070
Phone: 801.255.0529

LAYTON
Phone: 801.547.1100

TOOELE
Phone: 435.843.3590

CEDAR CITY
Phone: 435.865.1453

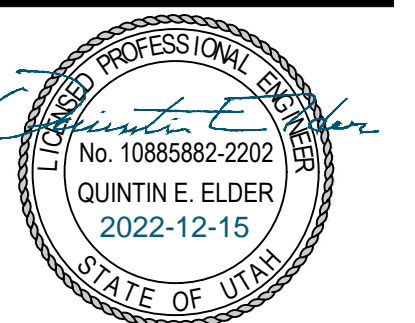
RICHFIELD
Phone: 435.896.2983

WWW.ENSIGNENG.COM

FOR:
HOLIDAY OIL
3115 WEST 2100 SOUTH
WEST VALLEY CITY, UTAH
CONTACT:
SCOTT WAGSTAFF
PHONE: 801-473-7002



HOLIDAY OIL SANTAQUIN
45 SOUTH 300 EAST
SANTAQUIN, UTAH



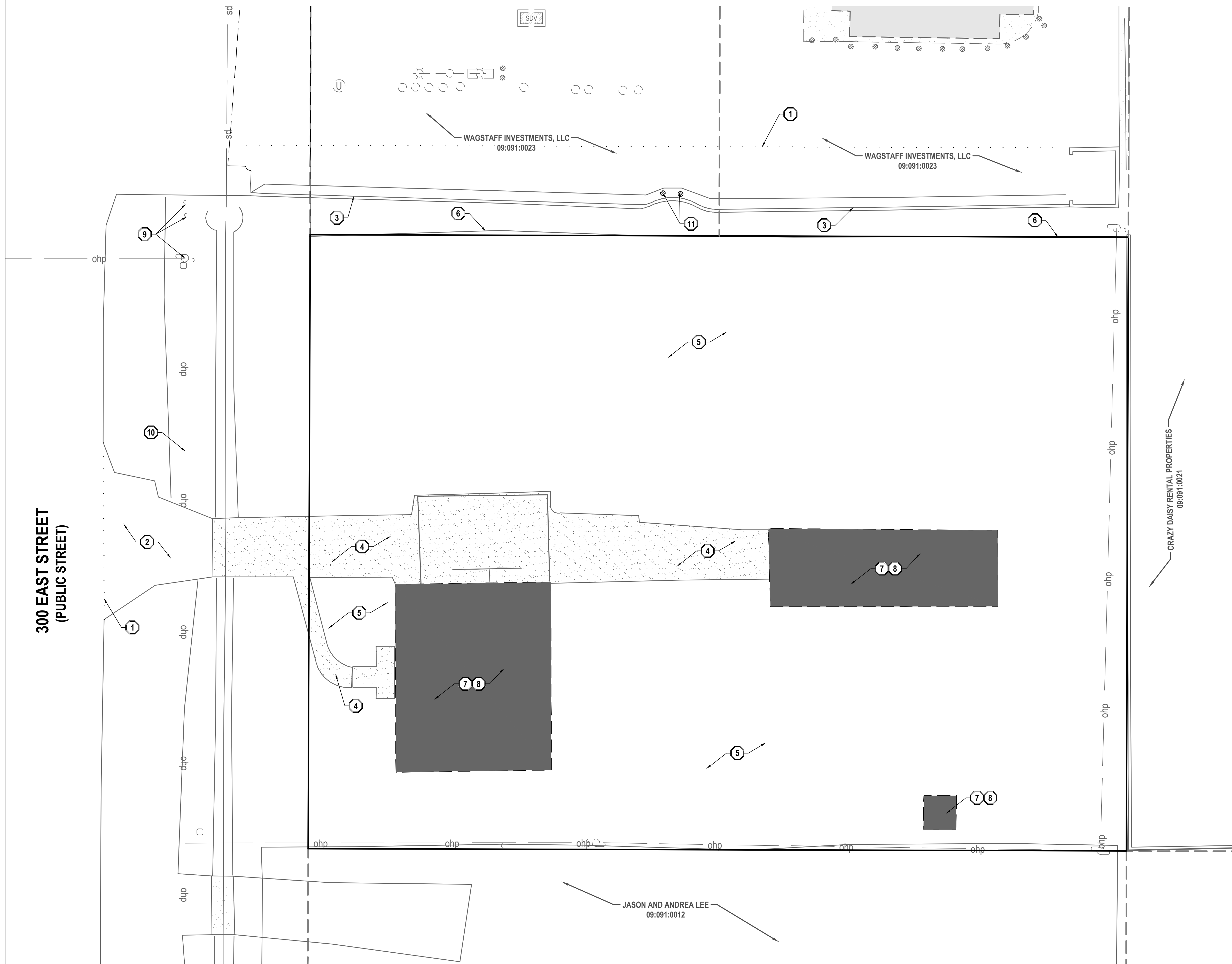
GENERAL NOTES

PROJECT NUMBER: 6458A
DRAWN BY: MM
PROJECT MANAGER: CGD
PRINT DATE: 10/25/2022
CHECKED BY: QRC

C001

811
 CALL BLUESTAKES
 @ 811 AT LEAST 48 HOURS
 PRIOR TO THE
 COMMENCEMENT OF ANY
 CONSTRUCTION.
 Know what's below.
 Call before you dig.

BENCHMARK
 NORTH QUARTER CORNER OF SECTION 01,
 TOWNSHIP 9 SOUTH, RANGE 1 EAST
 SALT LAKE BASE AND MERIDIAN
 ELEV = 4880.90'



GENERAL NOTES

1. ALL WORK TO COMPLY WITH THE GOVERNING AGENCY'S STANDARDS AND SPECIFICATIONS.
2. EXISTING UNDERGROUND UTILITIES AND IMPROVEMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS BASED UPON RECORD INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS. LOCATIONS MAY NOT HAVE BEEN VERIFIED IN THE FIELD AND NO GUARANTEE IS MADE AS TO THE ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXISTENCE AND LOCATION OF THE UTILITIES SHOWN ON THESE PLANS OR INDICATED IN THE FIELD BY LOCATING SERVICES. ANY ADDITIONAL COSTS INCURRED AS A RESULT OF THE CONTRACTOR'S FAILURE TO VERIFY THE LOCATIONS OF EXISTING UTILITIES PRIOR TO THE BEGINNING OF CONSTRUCTION IN THEIR VICINITY SHALL BE BORNE BY THE CONTRACTOR AND ASSUMED INCLUDED IN THE CONTRACT. THE CONTRACTOR IS TO VERIFY ALL CONNECTION POINTS WITH THE EXISTING UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE CAUSED TO THE EXISTING UTILITIES AND UTILITY STRUCTURES THAT ARE TO REMAIN. IF CONFLICTS WITH EXISTING UTILITIES OCCUR, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONSTRUCTION TO DETERMINE IF ANY FIELD ADJUSTMENTS SHOULD BE MADE.
3. ALL SURFACE IMPROVEMENTS DISTURBED BY CONSTRUCTION SHALL BE RESTORED OR REPLACED, INCLUDING TREES AND DECORATIVE SHRUBS, SOO, FENCES, WALLS AND STRUCTURES, WHETHER OR NOT THEY ARE SPECIFICALLY SHOWN ON THE CONTRACT DOCUMENTS.
4. ALL CONSTRUCTION SIGNAGE, BARRICADES, TRAFFIC CONTROL DEVICES, ETC. SHALL CONFORM TO THE LATEST EDITION OF THE M.U.T.C.D. THE CONTRACTOR WILL MAINTAIN SUCH SO THAT THEY ARE PROPERLY PLACED AND VISIBLE AT ALL TIMES.
5. SIDEWALKS AND CURBS DESIGNATED TO BE DEMOLISHED SHALL BE DEMOLISHED TO THE NEAREST EXPANSION JOINT, MATCHING THESE PLANS AS CLOSELY AS POSSIBLE.
6. THE CONTRACTOR IS TO PROTECT AND PRESERVE ALL EXISTING IMPROVEMENTS, UTILITIES, AND SIGNS, ETC. UNLESS OTHERWISE NOTED ON THESE PLANS.

SCOPE OF WORK:

- PROVIDE, INSTALL AND/OR CONSTRUCT THE FOLLOWING PER THE SPECIFICATIONS GIVEN OR REFERENCED, THE DETAILS NOTED, AND/OR AS SHOWN ON THE CONSTRUCTION DRAWINGS:
- 1 SAWCUT EXISTING ASPHALT/CONCRETE PAVEMENT TO PROVIDE A CLEAN EDGE FOR THE TRANSITION BETWEEN EXISTING AND PROPOSED ASPHALT PAVEMENT.
 - 2 REMOVE AND PROPERLY DISPOSE OF EXISTING ASPHALT PAVEMENT.
 - 3 SAWCUT, REMOVE, AND PROPERLY DISPOSE OF EXISTING CONCRETE CURB AND GUTTER.
 - 4 SAWCUT, REMOVE, AND PROPERLY DISPOSE OF EXISTING CONCRETE DRIVEWAY/SIDEWALK.
 - 5 REMOVE EXISTING LANDSCAPING IN THIS AREA. RETROFIT AND REPAIR IRRIGATION SYSTEM AS NEEDED. SEE LANDSCAPE PLANS FOR ADDITIONAL INFORMATION.
 - 6 REMOVE AND PROPERLY DISPOSE OF EXISTING FENCE.
 - 7 REMOVE AND DISPOSE OF EXISTING BUILDING STRUCTURE.
 - 8 REMOVE AND PROPERLY DISPOSE OF EXISTING STRUCTURES, CONCRETE SLABS, STAIRS, ETC., INCLUDING ALL ELECTRICAL APPURTENANCES, IN THIS AREA WHETHER OR NOT IDENTIFIED ON PLANS. CONTRACTOR TO FILL IN ALL HOLES CREATED DURING DEMOLITION WITH STRUCTURAL FILL TO PROPER SUBGRADE ELEVATION.
 - 9 REMOVE AND PROPERLY DISPOSE OF EXISTING POWER POLE AND GUY WIRES. COORDINATE WITH LOCAL POWER COMPANY.
 - 10 OVERHEAD POWER LINES TO BE RELOCATED. COORDINATE WITH LOCAL POWER COMPANY.
 - 11 REMOVE AND PROPERLY DISPOSE OF EXISTING BOLLARDS.
 - 12 LIMIT OF DISTURBANCE.
 - 13 PROTECT AND PRESERVE ALL EXISTING IMPROVEMENTS, UTILITIES, SIGNS, ETC. (TYPICAL UNLESS OTHERWISE NOTED).

ENSIGN
 THE STANDARD IN ENGINEERING

SALT LAKE CITY
 45 W. 10000 S., Suite 500
 Sandy, UT 84070
 Phone: 801.255.0529

LAYTON
 Phone: 801.547.1100

TOOELE
 Phone: 435.843.3590

CEDAR CITY
 Phone: 435.865.1453

RICHFIELD
 Phone: 435.896.2983

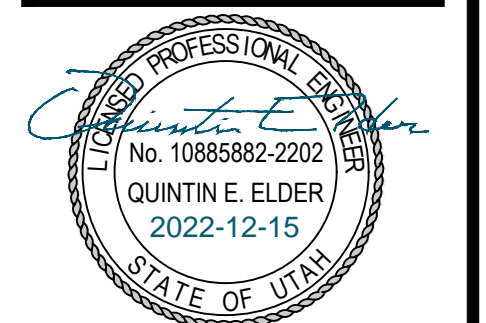
WWW.ENSIGNENG.COM

FOR:
 HOLIDAY OIL
 3115 WEST 2100 SOUTH
 WEST VALLEY CITY, UTAH
 CONTACT:
 SCOTT WAGSTAFF
 PHONE: 801-473-7002



HOLIDAY OIL SANTAQUIN

**45 SOUTH 300 EAST
 SANTAQUIN, UTAH**



DEMOLITION PLAN

PROJECT NUMBER: 6458A
 PRINT DATE: 10/25/2022
 DRAWN BY: MM
 CHECKED BY: QRE
 PROJECT MANAGER: CGD

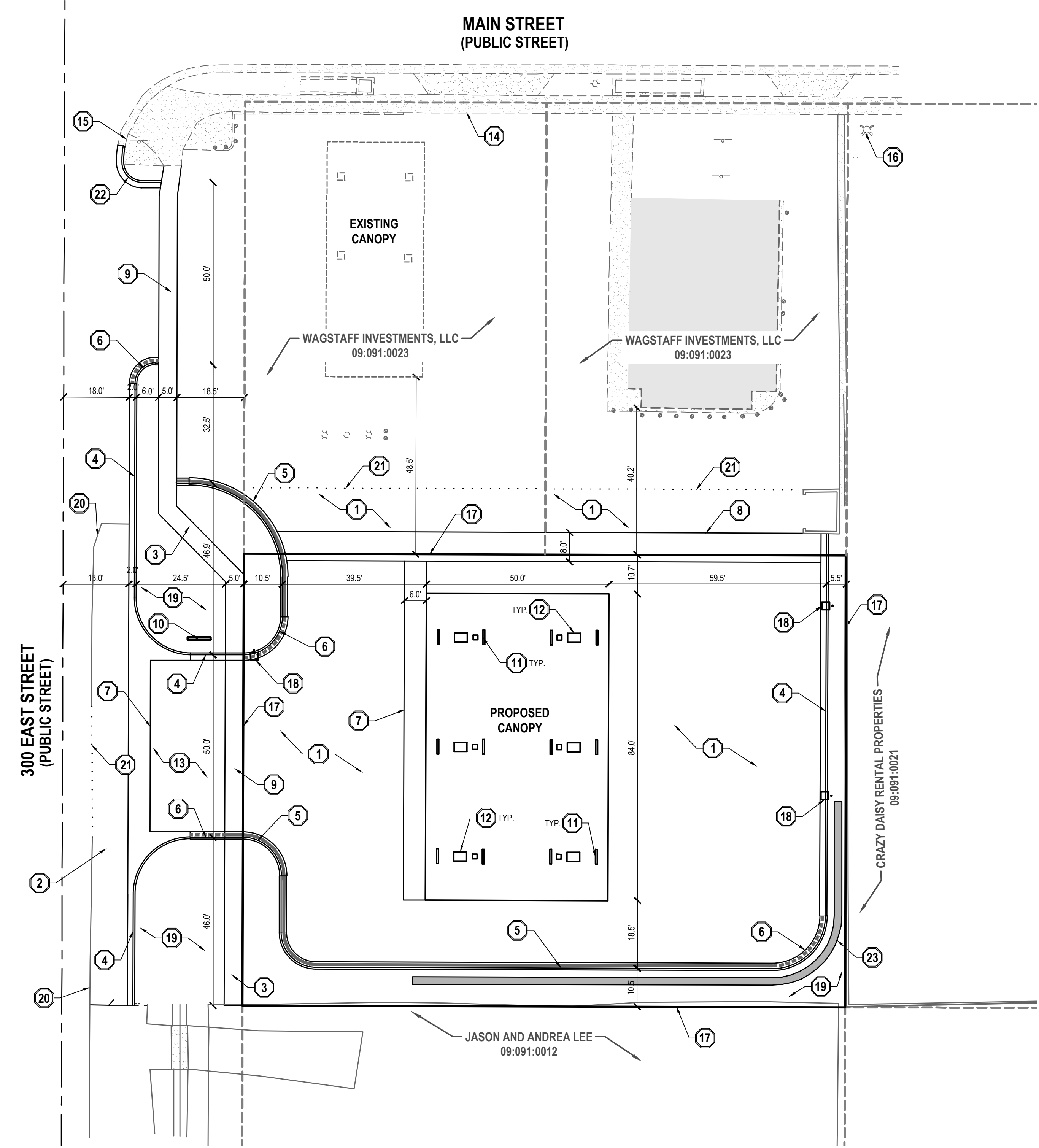
C100

811
 Know what's below.
 Call before you dig.

CALL BLUESTAKES
 @ 811 AT LEAST 48 HOURS
 PRIOR TO THE
 COMMENCEMENT OF ANY
 CONSTRUCTION.

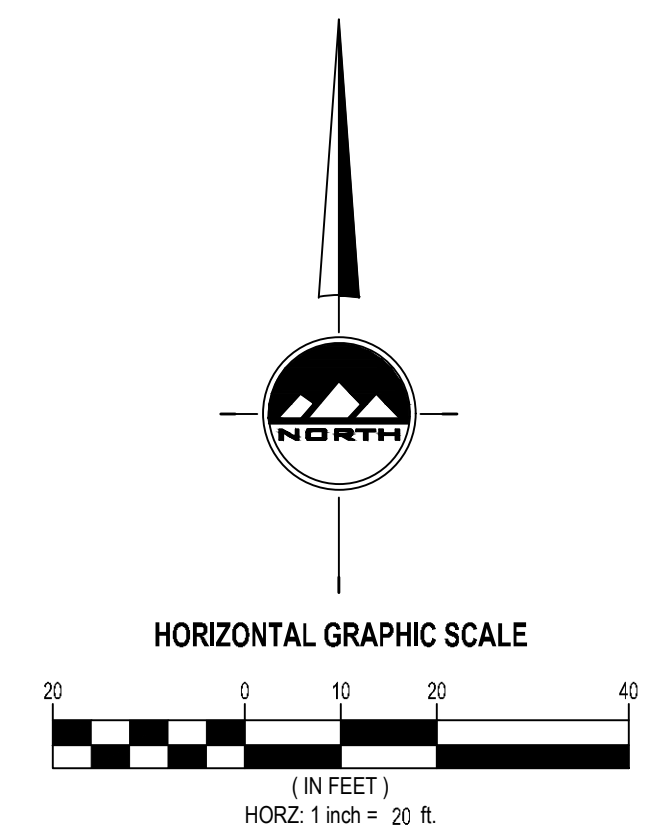
BENCHMARK

NORTH QUARTER CORNER OF SECTION 01,
 TOWNSHIP 9 SOUTH, RANGE 1 EAST
 SALT LAKE BASE AND MERIDIAN
 ELEV = 4880.90'



- GENERAL NOTES**
- ALL WORK TO COMPLY WITH THE LOCAL AGENCY JURISDICTION'S DESIGN STANDARDS AND PUBLIC IMPROVEMENTS SPECIFICATIONS.
 - ALL PAVEMENT MARKINGS SHALL CONFORM TO THE LATEST EDITION OF THE M.U.T.C.D. (MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES).
 - ALL SURFACE IMPROVEMENTS DISTURBED BY CONSTRUCTION SHALL BE RESTORED OR REPLACED, INCLUDING TREES AND DECORATIVE SHRUBS, SOD, FENCES, WALLS AND STRUCTURES, WHETHER OR NOT THEY ARE SPECIFICALLY SHOWN ON THE CONTRACT DOCUMENTS.
 - NOTIFY ENGINEER OF ANY DISCREPANCIES IN DESIGN OR STAKING BEFORE PLACING CONCRETE OR ASPHALT.
 - THE CONTRACTOR IS TO PROTECT AND PRESERVE ALL EXISTING IMPROVEMENTS, UTILITIES, AND SIGNS, ETC. UNLESS OTHERWISE NOTED ON THESE PLANS.
 - ALL CONSTRUCTION IS TO BE DONE IN ACCORDANCE WITH THE LOCAL AGENCY JURISDICTION'S CURRENT DESIGN STANDARDS AND PUBLIC IMPROVEMENTS SPECIFICATIONS.
 - PRIOR TO THE COMMENCEMENT OF ANY WORK, A PRE-CONSTRUCTION MEETING WILL BE HELD WITH THE PUBLIC WORKS DIRECTOR, CHIEF BUILDING OFFICIAL, CITY INSPECTORS, THE CONTRACTOR AND THE PROPERTY OWNER.
 - PRIOR TO CONSTRUCTION AN EROSION AND SEDIMENTATION CONTROL PLAN WILL BE SUBMITTED TO THE PUBLIC WORKS DIRECTOR FOR APPROVAL.
 - ALL IMPROVEMENTS MUST COMPLY WITH ADA STANDARDS AND RECOMMENDATIONS.
 - ALL ADA ACCESSIBLE SIDEWALK WILL BE CONSTRUCTED IN ACCORDANCE WITH THE LOCAL AGENCY JURISDICTION'S DESIGN STANDARDS AND PUBLIC IMPROVEMENTS SPECIFICATIONS.
 - ALL DIMENSIONS FROM CURB AND GUTTER ARE TO TOP BACK OF CURB UNLESS NOTED OTHERWISE.
 - THE CONTRACTOR IS TO PROVIDE AN AS-BUILT DRAWING IN PDF FORMAT TO HOLIDAY OIL UPON COMPLETION OF THE PROJECT. A SCANNED COPY OF THE PLANS WITH CLEAR, LEGIBLE HAND WRITTEN NOTES IS ACCEPTABLE AND SHOULD INCLUDE ANY MODIFICATIONS THAT OCCUR DURING CONSTRUCTION, INCLUDING WATER, SEWER, STORM DRAIN, POWER AND ANY OTHER BURIED UTILITY.

- SCOPE OF WORK:**
 PROVIDE, INSTALL AND/OR CONSTRUCT THE FOLLOWING PER THE SPECIFICATIONS GIVEN OR REFERENCED, THE DETAILS NOTED, AND/OR AS SHOWN ON THE CONSTRUCTION DRAWINGS:
- CONCRETE PAVEMENT: 5.5" THICK CONCRETE WITH 5' UNTREATED BASE COURSE PER DETAIL 1/C600.
 - ASPHALT PAVEMENT: 3" THICK CONCRETE WITH 8' UNTREATED BASE COURSE DETAIL 4/C600.
 - 4" THICK CONCRETE SIDEWALK/PATIO WITH 6' UNTREATED BASE COURSE PER APWA PLAN NO. 231.
 - 24" COLLECTION CURB AND GUTTER PER DETAIL 2/C600.
 - 24" REVERSE PAN CURB AND GUTTER PER DETAIL 3/C600.
 - TRANSITION BETWEEN COLLECTION CURB AND GUTTER AND REVERSE PAN CURB AND GUTTER.
 - 6" WIDE WATERWAY PER APWA PLAN 211 AND SPECIFICATIONS. SEE SHEET C600.
 - 8" WIDE WATERWAY PER APWA PLAN 211 AND SPECIFICATIONS. SEE SHEET C600.
 - 8" THICK CONCRETE SIDEWALK/PATIO WITH 6' UNTREATED BASE COURSE PER APWA PLAN NO. 231. CONTRACTOR TO ENSURE SIDEWALK THICKNESS PER FOOTNOTE.
 - MONUMENT SIGN. SEPARATE SIGN PERMIT.
 - UPSIDE DOWN "U" CONCRETE BOLLARD. TYPE AND MATERIAL TO BE PROVIDED BY OWNER.
 - GAS PUMP. DESIGN BY OTHERS.
 - OPEN DRIVE APPROACH PER APWA STANDARD PLAN 225.
 - EXISTING SIDEWALK.
 - EXISTING CURB AND GUTTER.
 - EXISTING FIRE HYDRANT.
 - PROPERTY LINE.
 - 16' TALL LIGHT POLE. SEE PHOTOMETRIC PLAN.
 - NEW LANDSCAPING. SEE LANDSCAPE PLANS.
 - EXISTING ASPHALT EDGE.
 - SAWCUT EXISTING ASPHALT/CONCRETE PAVEMENT TO PROVIDE A CLEAN EDGE FOR THE TRANSITION BETWEEN EXISTING AND PROPOSED ASPHALT PAVEMENT.
 - 6" TYPE "P" CURB WALL PER APWA STANDARD PLAN NO. 209.
 - ROCK RETAINING WALL PER DETAIL 11/600. SEE GRADING PLAN FOR ELEVATIONS.



ENSIGN
 THE STANDARD IN ENGINEERING

SALT LAKE CITY
 45 W. 10000 S., Suite 500
 Sandy, UT 84070
 Phone: 801.255.0529

LAYTON
 Phone: 801.547.1100

TOOELE
 Phone: 435.843.3590

CEDAR CITY
 Phone: 435.865.1453

RICHFIELD
 Phone: 435.896.2983

WWW.ENSIGNENG.COM

FOR:
 HOLIDAY OIL
 3115 WEST 2100 SOUTH
 WEST VALLEY CITY, UTAH

CONTACT:
 SCOTT WAGSTAFF
 PHONE: 801-473-7022

HOLIDAY OIL SANTAQUIN

**45 SOUTH 300 EAST
 SANTAQUIN, UTAH**

SITE PLAN

PROJECT NUMBER: 6458A
 PRINT DATE: 10/25/2022
 DRAWN BY: MM
 CHECKED BY: QRE
 PROJECT MANAGER: CGD

C200

811
 CALL BLUESTAKES
 @ 811 AT LEAST 48 HOURS
 PRIOR TO THE
 COMMENCEMENT OF ANY
 CONSTRUCTION.
 Know what's below.
 Call before you dig.

BENCHMARK
 NORTH QUARTER CORNER OF SECTION 01,
 TOWNSHIP 9 SOUTH, RANGE 1 EAST
 SALT LAKE BASE AND MERIDIAN
 ELEV = 4880.90'

- GENERAL NOTES**
- ALL WORK TO COMPLY WITH THE SANTAQUIN STANDARDS AND SPECIFICATIONS.
 - ALL IMPROVEMENTS MUST COMPLY WITH ADA STANDARDS AND RECOMMENDATIONS.
 - ALL WORK SHALL COMPLY WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER POSSIBLY INCLUDING, BUT NOT LIMITED TO, REMOVAL OF UNCONSOLIDATED FILL, ORGANICS, AND DEBRIS. PLACEMENT OF SUBSURFACE DRAIN LINES AND GEOTEXTILE, AND OVEREXCAVATION OF UNSUITABLE BEARING MATERIALS AND PLACEMENT OF ACCEPTABLE FILL MATERIAL.
 - THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE EXISTING SOIL CONDITIONS.
 - ELEVATIONS HAVE BEEN TRUNCATED FOR CLARITY. XXX.XX REPRESENTS AN ELEVATION OF 49XX.XX ON THESE PLANS.
 - LANDSCAPED AREAS REQUIRE SUBGRADE TO BE MAINTAINED AT A SPECIFIC ELEVATION BELOW FINISHED GRADE AND REQUIRE SUBGRADE TO BE PROPERLY PREPARED AND SCARIFIED. SEE LANDSCAPE PLANS FOR ADDITIONAL INFORMATION.
 - SLOPE ALL LANDSCAPED AREAS AWAY FROM BUILDING FOUNDATIONS TOWARD CURB AND GUTTER OR STORM DRAIN INLETS.
 - EXISTING UNDERGROUND UTILITIES AND IMPROVEMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS BASED UPON RECORD INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS. LOCATIONS MAY NOT HAVE BEEN VERIFIED IN THE FIELD AND NO GUARANTEE IS MADE AS TO THE ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXISTENCE AND LOCATION OF THE UTILITIES SHOWN ON THESE PLANS OR INDICATED IN THE FIELD BY LOCATING SERVICES. ANY ADDITIONAL COSTS INCURRED AS A RESULT OF THE CONTRACTOR'S FAILURE TO VERIFY THE LOCATIONS OF EXISTING UTILITIES PRIOR TO THE BEGINNING OF CONSTRUCTION IN THEIR VICINITY SHALL BE BORNE BY THE CONTRACTOR AND ASSUMED INCLUDED IN THE CONTRACT. THE CONTRACTOR IS TO VERIFY ALL CONNECTION POINTS WITH THE EXISTING UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE CAUSED TO THE EXISTING UTILITIES AND UTILITY STRUCTURES THAT ARE TO REMAIN. IF CONFLICTS WITH EXISTING UTILITIES OCCUR, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONSTRUCTION TO DETERMINE IF ANY FIELD ADJUSTMENTS SHOULD BE MADE.
 - ALL STORM DRAIN INFRASTRUCTURE TO BE INSTALLED PER GOVERNING AGENCY OR APWA STANDARD PLANS AND SPECIFICATIONS.
 - ENSURE MINIMUM COVER OVER ALL STORM DRAIN PIPES PER MANUFACTURER'S RECOMMENDATIONS. NOTIFY ENGINEER IF MINIMUM COVER CANNOT BE ATTAINED.
 - ALL FACILITIES WITH DOWNSPOUTS/ROOF DRAINS SHALL BE CONNECTED TO THE STORM DRAIN SYSTEM. SEE MECHANICAL/PLUMBING PLANS FOR DOWNSPOUT/ROOF DRAIN LOCATIONS AND SIZES. ALL ROOF DRAINS TO HAVE MINIMUM 1% SLOPE.
 - THE CONTRACTOR SHALL ADJUST TO GRADE ALL EXISTING UTILITIES AS NEEDED PER LOCAL AGENCY'S STANDARDS AND SPECIFICATIONS.
 - NOTIFY ENGINEER OF ANY DISCREPANCIES IN DESIGN OR STAKING BEFORE PLACING CONCRETE, ASPHALT, OR STORM DRAIN STRUCTURES OR PIPES.
 - THE CONTRACTOR IS TO PROTECT AND PRESERVE ALL EXISTING IMPROVEMENTS, UTILITIES, AND SIGNS, ETC. UNLESS OTHERWISE NOTED ON THESE PLANS.
 - CONTRACTOR TO ENSURE THAT BOXES ARE SIZED TO ACCOMMODATE PIPE SIZES.
 - PERMANENT UNDERGROUND DETENTION FACILITY TO BE OWNED AND MAINTAINED BY OWNER OF THIS PROPERTY NOT TO BE ALTERED OR REMOVED WITHOUT APPROVAL FROM THE GOVERNING AGENCY.
 - STORM DRAIN INFRASTRUCTURE WITHIN PROPERTY IS PRIVATE. TO BE OWNED AND MAINTAINED BY OWNER OF THIS PROPERTY NOT TO BE ALTERED OR REMOVED WITHOUT APPROVAL FROM THE GOVERNING AGENCY.

ENSIGN
 THE STANDARD IN ENGINEERING

SALT LAKE CITY
 45 W. 10000 S., Suite 500
 Sandy, UT 84070
 Phone: 801.255.0529

LAYTON
 Phone: 801.547.1100

TOOELE
 Phone: 435.843.3590

CEDAR CITY
 Phone: 435.865.1453

RICHFIELD
 Phone: 435.896.2983

WWW.ENSIGNENG.COM

FOR:
 HOLIDAY OIL
 3115 WEST 2100 SOUTH
 WEST VALLEY CITY, UTAH

CONTACT:
 SCOTT WAGSTAFF
 PHONE: 801-673-7002



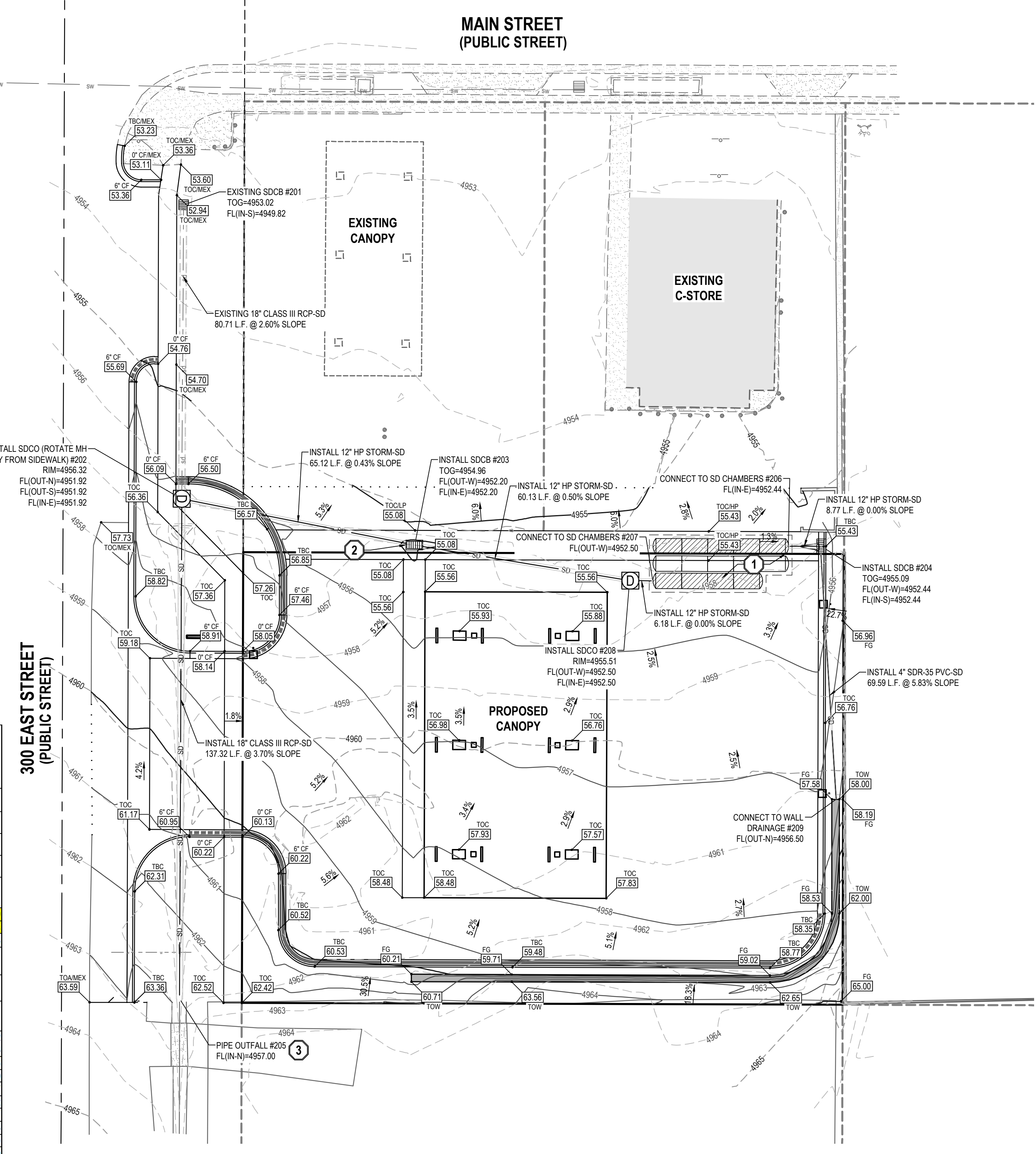
HOLIDAY OIL SANTAQUIN
 45 SOUTH 300 EAST
 SANTAQUIN, UTAH



GRADING AND DRAINAGE PLAN

PROJECT NUMBER: 6458A PRINT DATE: 10/25/2022
 DRAWN BY: MM CHECKED BY: CRE
 PROJECT MANAGER: CGD

C300



- SCOPE OF WORK:**
 PROVIDE, INSTALL AND/OR CONSTRUCT THE FOLLOWING PER THE SPECIFICATIONS GIVEN OR REFERENCED. THE DETAILS NOTED, AND/OR AS SHOWN ON THE CONSTRUCTION DRAWINGS:
- INSTALL 14 STORMTECH SC-740 CHAMBERS AND 4 END CAPS STORAGE CHAMBERS TO BE INSTALLED PER MANUFACTURER'S DRAWINGS AND SPECIFICATIONS. SUBMITTAL MUST BE PROVIDED TO ENGINEER OF RECORD FOR REVIEW PRIOR TO ORDERING MATERIALS OR BEGINNING CONSTRUCTION. CONTRACTOR SHALL HOLD A PRE-CONSTRUCTION MEETING WITH THE MANUFACTURER PRIOR TO STARTING CONSTRUCTION.
 - TOP OF GRAVEL = 4953.90
 - TOP OF CHAMBER = 4953.30
 - BOTTOM OF CHAMBER = 4950.80
 - BOTTOM OF GRAVEL = 4950.30
 - 25-YR DETENTION STORAGE REQUIRED = 1,267 CU. FT.
 - 25-YR DETENTION STORAGE PROVIDED = 1,289 CU. FT.
 - 1.66" ORIFICE PLATE PER DETAIL 10/C600 INSTALLED ON THE WEST SIDE OF STORM DRAIN BOX.
 - PIPE OUTFALL PER APWA PLAN NO. 323 WITH TRASH GRATE.

ON-SITE STORM DRAIN DETENTION

PROJECT TITLE: HOLIDAY OIL SANTAQUIN PROJECT NUMBER: 6458a
 LOCATION: Saratoga Springs, Utah DATE: 12/06/22
 SHEET: 1 OF 1

AREA CALCULATION

HARDSCAPE AREA	0.40 acres	runoff coeff. C	0.89
LANDSCAPE/NATIVE AREA	0.07 acres	runoff coeff. C	0.44
TOTAL AREA	0.47 acres	WEIGHTED C	0.83

RUNOFF CALCULATION
 25 Year Design Storm

Allowable Runoff	0.2 cfs/ac
Total allowable runoff	0.094 cfs

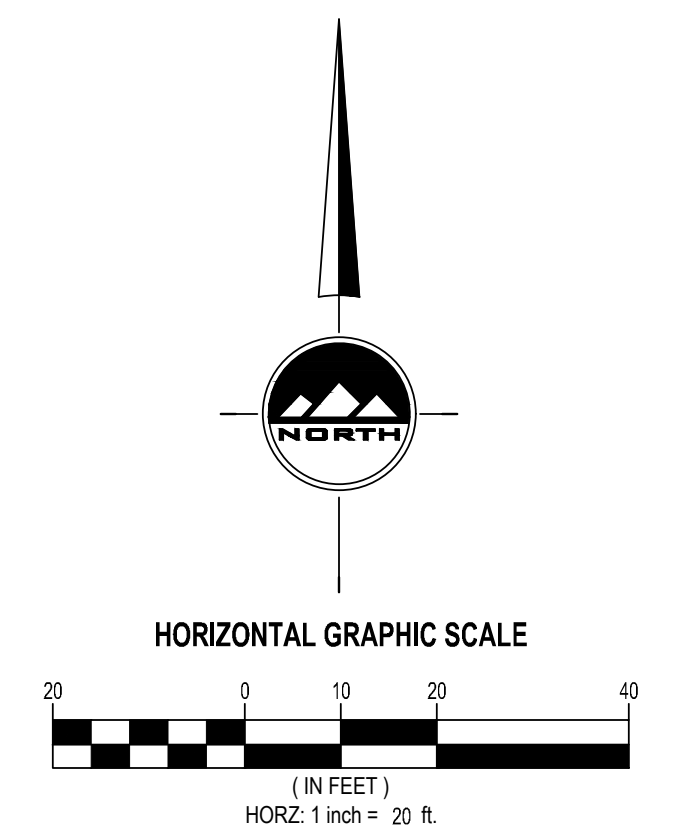
Time (min)	CA (Acres)	Precipitation (in/hr)	Time (sec)	Cumulative Runoff (ft ³)	Allowed Runoff (ft ³)	Storage (ft ³)
5	0.39	4.30	300	510	28	482
10	0.39	3.35	600	779	56	723
15	0.39	2.76	900	963	84	878
30	0.39	1.86	1,800	1,297	169	1,129
60	0.39	1.15	3,600	1,604	338	1,267
120	0.39	0.66	7,200	1,827	675	1,152
180	0.39	0.46	10,800	1,933	1,013	921
360	0.39	0.27	21,600	2,218	2,025	193
720	0.39	0.16	43,200	2,695	4,050	0
1440	0.39	0.10	86,400	3,448	8,100	0

STORAGE REQUIRED: 1,267
 STORAGE PROVIDED: 1,289

OUTLET CONTROL ROAD + POST DEVELOPED LOTS

Orifice Parameters	Orifice Size	Pipe Parameters
Q (cfs) = 0.094	Area = Q/(C x (2 x g x h) ^{0.5})	Type of Pipe = CONCRETE
Coefficient(C) = 0.6	Area (in ²) = 2.15	Manning (n) = 0.013
g (ft/s ²) = 32.2	Diameter (in) = 1.66	Pipe Dia. (d) = 12
High Water = 4,953.90		% Slope (s) = 0.50%
FL @ orifice = 4,952.20		Q allow (cfs) = 2.53
h (ft) = 1.7		

(Orifice coefficient is taken from: McCuen, Richard / Hydrologic Design Methods / c/o 1998 p.424)

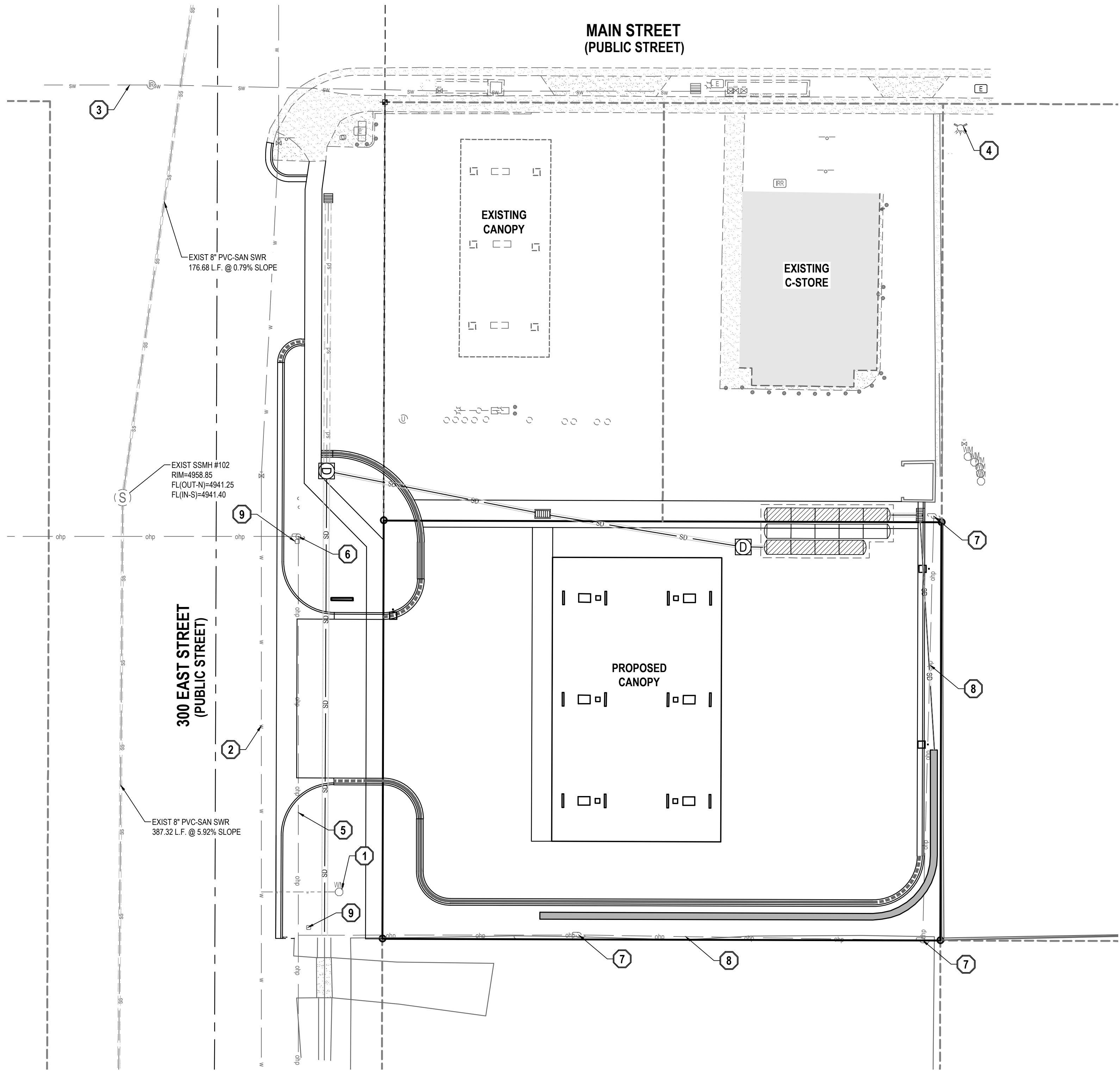


811
Know what's below.
Call before you dig.

CALL BLUESTAKES
@ 811 AT LEAST 48 HOURS
PRIOR TO THE
COMMENCEMENT OF ANY
CONSTRUCTION.

BENCHMARK

NORTH QUARTER CORNER OF SECTION 01,
TOWNSHIP 9 SOUTH, RANGE 1 EAST
SALT LAKE BASE AND MERIDIAN
ELEV = 4880.90'



GENERAL NOTES

- ALL WORK TO COMPLY WITH THE GOVERNING AGENCY OR APWA'S STANDARDS AND SPECIFICATIONS.
- EXISTING UNDERGROUND UTILITIES AND IMPROVEMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS BASED UPON RECORD INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS. LOCATIONS MAY NOT HAVE BEEN VERIFIED IN THE FIELD AND NO GUARANTEE IS MADE AS TO THE ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXISTENCE AND LOCATION OF THE UTILITIES SHOWN ON THESE PLANS OR INDICATED IN THE FIELD BY LOCATING SERVICES. ANY ADDITIONAL COSTS INCURRED AS A RESULT OF THE CONTRACTOR'S FAILURE TO VERIFY THE LOCATIONS OF EXISTING UTILITIES PRIOR TO THE BEGINNING OF CONSTRUCTION IN THEIR VICINITY SHALL BE BORNE BY THE CONTRACTOR AND ASSUMED INCLUDED IN THE CONTRACT. THE CONTRACTOR IS TO VERIFY ALL CONNECTION POINTS WITH THE EXISTING UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE CAUSED TO THE EXISTING UTILITIES AND UTILITY STRUCTURES THAT ARE TO REMAIN. IF CONFLICTS WITH EXISTING UTILITIES OCCUR, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONSTRUCTION TO DETERMINE IF ANY FIELD ADJUSTMENTS SHOULD BE MADE.
- ALL SANITARY SEWER INFRASTRUCTURE TO BE INSTALLED PER GOVERNING AGENCY OR APWA STANDARD PLANS AND SPECIFICATIONS.
- ALL WATER INFRASTRUCTURE TO BE INSTALLED PER GOVERNING AGENCY OR APWA STANDARD PLANS AND SPECIFICATIONS.
- DEFLECT OR LOOP ALL WATERLINES TO AVOID CONFLICTS WITH OTHER UTILITIES PER GOVERNING AGENCY OR APWA'S STANDARDS AND SPECIFICATIONS.
- PROJECT SHALL COMPLY WITH ALL UTAH DIVISION OF DRINKING WATER RULES AND REGULATIONS INCLUDING, BUT NOT LIMITED TO, THOSE PERTAINING TO BACK-FLOW PROTECTION AND CROSS CONNECTION PREVENTION.
- THE CONTRACTOR IS TO COORDINATE ALL UTILITIES WITH MECHANICAL/PLUMBING PLANS.
- NOTIFY ENGINEER OF ANY DISCREPANCIES IN DESIGN OR STAKING BEFORE PLACING UTILITY STRUCTURES OR PIPES.
- THE CONTRACTOR SHALL ADJUST TO GRADE ALL EXISTING UTILITIES AS NEEDED PER LOCAL GOVERNING AGENCY OR APWA'S STANDARDS AND SPECIFICATIONS.
- THE CONTRACTOR IS TO PROTECT AND PRESERVE ALL EXISTING IMPROVEMENTS, UTILITIES, AND SIGNS, ETC. UNLESS OTHERWISE NOTED ON THESE PLANS.
- ALL CONSTRUCTION SHALL COMPLY WITH GOVERNING AGENCY OR APWA'S DESIGN STANDARDS AND CONSTRUCTION SPECIFICATIONS.
- CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND INVERT ELEVATIONS OF EXISTING MANHOLES AND OTHER UTILITIES BEFORE STAKING OR CONSTRUCTING ANY NEW SEWER LINES.

SCOPE OF WORK:

- PROVIDE, INSTALL AND/OR CONSTRUCT THE FOLLOWING PER THE SPECIFICATIONS GIVEN OR REFERENCED, THE DETAILS NOTED, AND/OR AS SHOWN ON THE CONSTRUCTION DRAWINGS:
- EXISTING WATER METER TO BE USED FOR IRRIGATION. 1" POINT OF CONNECTION FOR IRRIGATION CONTRACTOR. INSTALL 1" PURPLE IPS POLY SERVICE LINE FOR PRESSURE IRRIGATION SERVICE WITH USC APPROVED RPZ BACKFLOW PREVENTER PER SANTAQUIN CITY STANDARDS AND SPECIFICATIONS.
 - EXISTING CULINARY WATER LINE.
 - EXISTING SECONDARY WATER LINE.
 - EXISTING FIRE HYDRANT.
 - POWER LINE TO BE RELOCATED. CONTRACTOR TO COORDINATE WITH LOCAL POWER COMPANY.
 - POWER POLE TO BE RELOCATED. CONTRACTOR TO COORDINATE WITH LOCAL POWER COMPANY.
 - EXISTING POWER POLE TO REMAIN AND BE PROTECTED IN PLACE.
 - EXISTING POWER LINE TO REMAIN AND BE PROTECTED IN PLACE.
 - EXISTING TELEPHONE BOX TO REMAIN AND BE PROTECTED IN PLACE.



SALT LAKE CITY
45 W. 10000 S., Suite 500
Sandy, UT 84070
Phone: 801.255.0529

LAYTON
Phone: 801.547.1100

TOOELE
Phone: 435.843.3590

CEDAR CITY
Phone: 435.865.1453

RICHFIELD
Phone: 435.896.2983

WWW.ENSIGNENG.COM

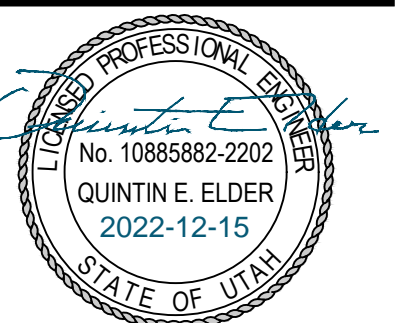
FOR:
HOLIDAY OIL
3115 WEST 2100 SOUTH
WEST VALLEY CITY, UTAH
CONTACT:
SCOTT WAGSTAFF
PHONE: 801-973-7002



HOLIDAY OIL SANTAQUIN

45 SOUTH 300 EAST

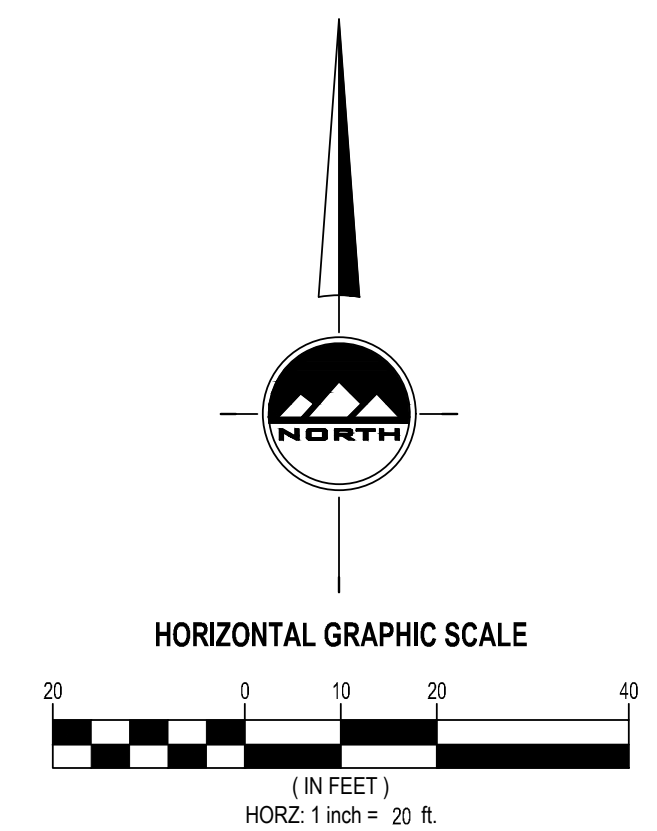
SANTAQUIN, UTAH



UTILITY PLAN

PROJECT NUMBER: 6458A
PRINT DATE: 10/25/2022
DRAWN BY: MM
CHECKED BY: QRE
PROJECT MANAGER: CGD

C400

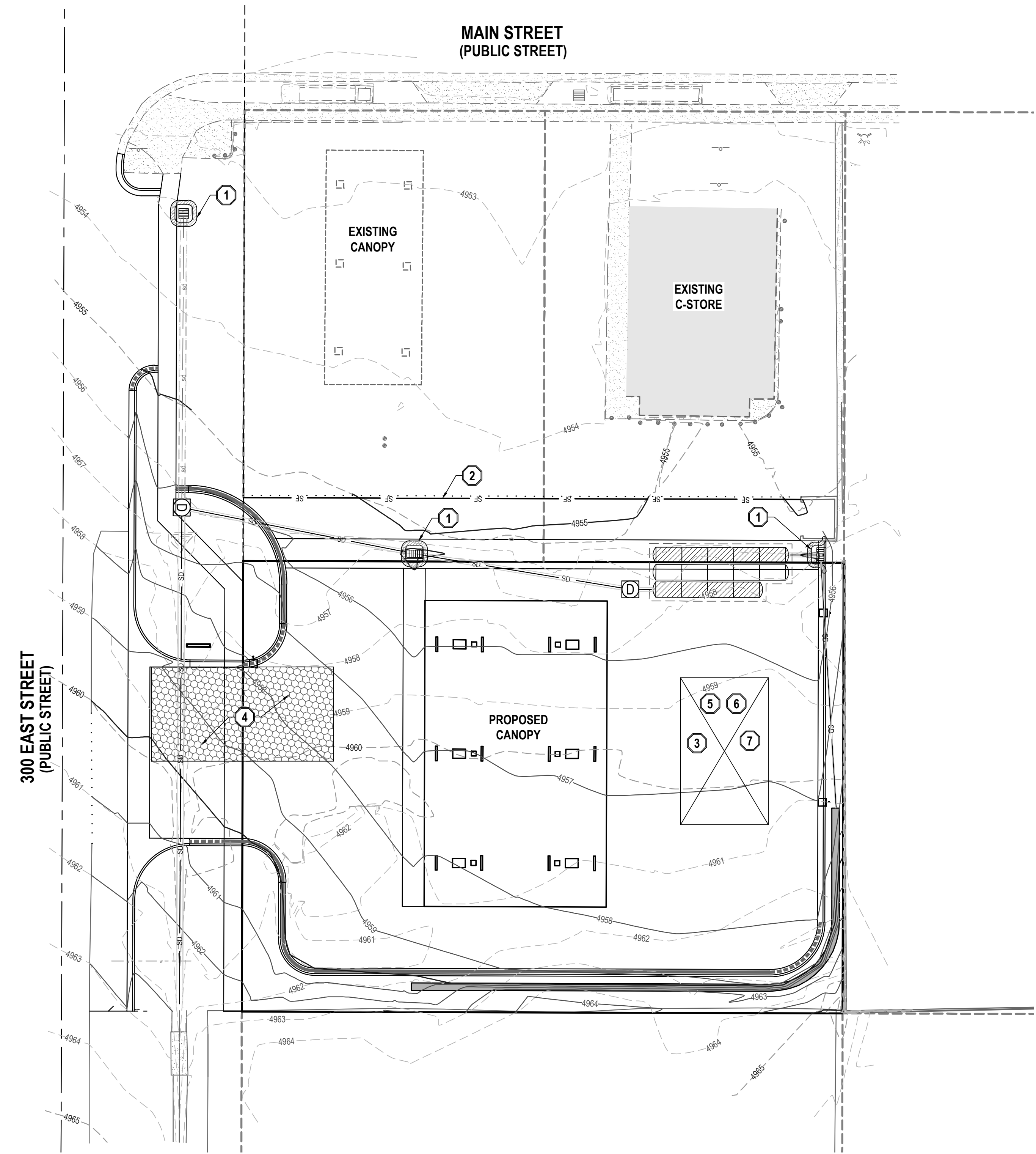


811
 Know what's below.
 Call before you dig.

CALL BLUESTAKES
 @ 811 AT LEAST 48 HOURS
 PRIOR TO THE
 COMMENCEMENT OF ANY
 CONSTRUCTION.

BENCHMARK

NORTH QUARTER CORNER OF SECTION 01,
 TOWNSHIP 9 SOUTH, RANGE 1 EAST
 SALT LAKE BASE AND MERIDIAN
 ELEV = 4880.90'



GENERAL NOTES

1. THIS PLAN IS DESIGNED AS A FIRST APPRAISAL OF NECESSARY MEANS TO PROTECT THE WATERS OF THE STATE FROM POTENTIAL POLLUTION. IT IS THE RESPONSIBILITY OF THE OWNER/OPERATOR TO ADD WARRANTED BEST MANAGEMENT PRACTICES (BMP'S) AS NECESSARY, MODIFY THOSE SHOWN AS APPROPRIATE, AND DELETE FROM THE PROJECT THOSE FOUND TO BE UNNECESSARY. FEDERAL AND STATE LAW ALLOWS THESE UPDATES TO BE MADE BY THE OWNER/OPERATOR ONSITE AND RECORDED BY THE OWNER/OPERATOR ON THE COPY OF THE SWPPP KEPT ONSITE.
2. DISTURBED LAND SHALL BE KEPT TO A MINIMUM. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE IS TEMPORARILY OR PERMANENTLY CEASED. HOWEVER, WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 21 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE.
3. RESEED DISTURBED LAND WITH NATIVE GRASS MIXTURE WITHIN 14 CALENDAR DAYS OF ACHIEVEMENT OF FINISH GRADE TO STABILIZE SOILS IF LAND IS NOT TO BE RE-WORKED WITHIN 14 CALENDAR DAYS OF THE CESSATION OF CONSTRUCTION ACTIVITIES AT THAT LOCATION.
4. DETAILS SHOWN ARE TO BE EMPLOYED TO PROTECT RUNOFF AS APPROPRIATE DURING CONSTRUCTION. NOT ALL DETAILS ARE NECESSARY AT ALL PHASES OF THE PROJECT. IT SHALL BE THE RESPONSIBILITY OF THE OWNER/OPERATOR TO USE APPROPRIATE BEST MANAGEMENT PRACTICES AT THE APPROPRIATE PHASE OF CONSTRUCTION. SEE SWPPP FOR BMP IMPLEMENTATION SCHEDULE.
5. VARIOUS BEST MANAGEMENT PRACTICES HAVE BEEN SHOWN ON THE PLANS AT SUGGESTED LOCATIONS. THE CONTRACTOR MAY MOVE AND RECONFIGURE THESE BMP'S TO OTHER LOCATIONS IF PREFERRED, PROVIDED THE INTENT OF THE DESIGN IS PRESERVED.
6. NOT ALL POSSIBLE BMP'S HAVE BEEN SHOWN. THE CONTRACTOR IS RESPONSIBLE TO APPLY CORRECT MEASURES TO PREVENT THE POLLUTION OF STORM WATER PER PROJECT SWPPP.
7. A UPDES (UTAH POLLUTANT DISCHARGE ELIMINATION SYSTEM) PERMIT IS REQUIRED FOR ALL CONSTRUCTION ACTIVITIES 1 ACRE OR MORE.
8. PRIOR TO CONSTRUCTION AN EROSION AND SEDIMENTATION CONTROL PLAN WILL BE SUBMITTED TO THE PUBLIC WORKS DIRECTOR FOR APPROVAL.

SCOPE OF WORK:
 PROVIDE, INSTALL AND/OR CONSTRUCT THE FOLLOWING PER THE SPECIFICATIONS GIVEN OR REFERENCED, THE DETAILS NOTED, AND/OR AS SHOWN ON THE CONSTRUCTION DRAWINGS:

- 1 INLET PROTECTION PER SANTAQUIN CITY STANDARD BMP DETAILS. SEE DETAIL 5/C600
- 2 TEMPORARY CONSTRUCTION FENCE OR SILT FENCE PER SANTAQUIN CITY STANDARD BMP DETAILS. SEE DETAIL 6/C600.
- 3 PORTABLE TOILET PER DETAIL 7/C600.
- 4 VEHICLE WASHDOWN AND STABILIZED CONSTRUCTION ENTRANCE PER SANTAQUIN CITY STANDARD BMP DETAILS. SEE DETAIL 8/C600.
- 5 CONCRETE WASTE MANAGEMENT PER DETAIL 9/C600.
- 6 SUGGESTED TEMPORARY CONSTRUCTION SITE PARKING, STAGING, DUMPSTER, AND MATERIAL STORAGE AREA.
- 7 SUGGESTED STOCKPILE AREA.



SALT LAKE CITY
 45 W. 10000 S., Suite 500
 Sandy, UT 84070
 Phone: 801.255.0529

LAYTON
 Phone: 801.547.1100

TOOELE
 Phone: 435.843.3590

CEDAR CITY
 Phone: 435.865.1453

RICHFIELD
 Phone: 435.896.2983

WWW.ENSIGNENG.COM

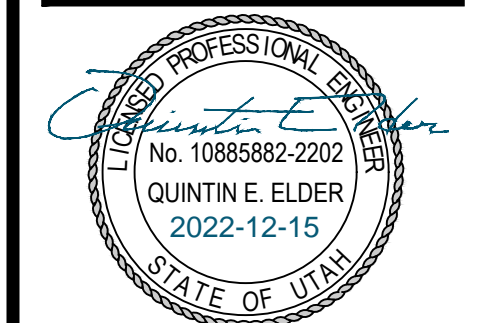
FOR:
 HOLIDAY OIL
 3115 WEST 2100 SOUTH
 WEST VALLEY CITY, UTAH

CONTACT:
 SCOTT WAGSTAFF
 PHONE: 801-973-7002



HOLIDAY OIL SANTAQUIN

45 SOUTH 300 EAST
SANTAQUIN, UTAH



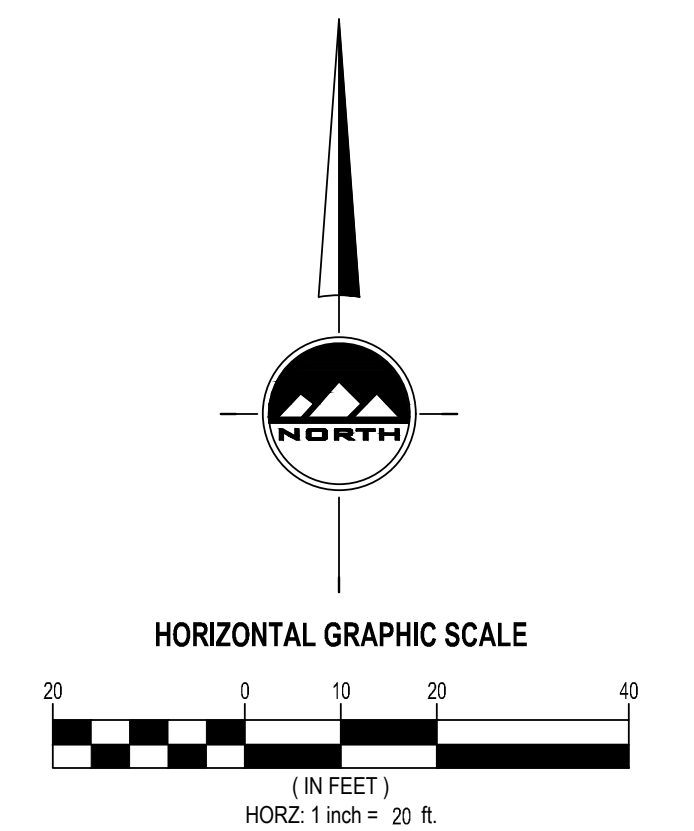
EROSION CONTROL PLAN

PROJECT NUMBER: 6458A
 PRINT DATE: 10/25/2022

DRAWN BY: MM
 CHECKED BY: QRE

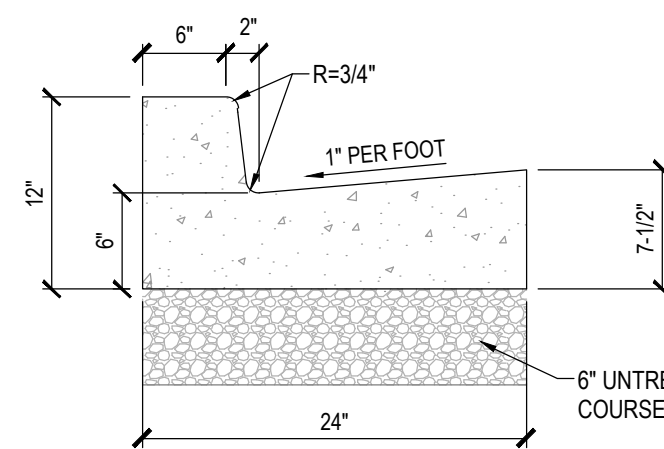
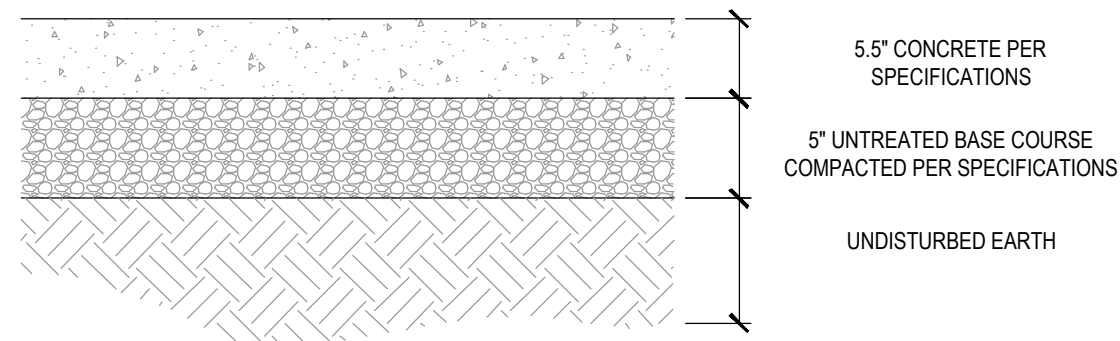
PROJECT MANAGER:
 CGD

C500

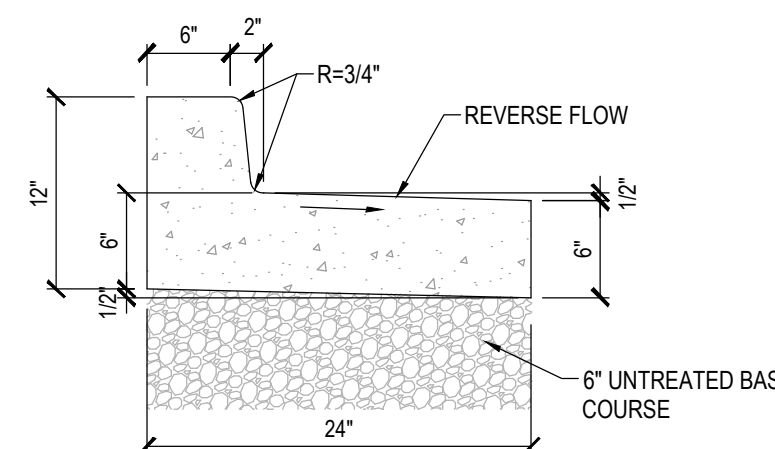


CONCRETE NOTES

- ALL PAVING TO BE PLACED OVER PROPERLY PREPARED NATURAL SOILS AND/OR PROPERLY PREPARED EXISTING FILL SOILS AND PROPERLY COMPACTED STRUCTURAL FILL WHERE SPECIFIED.
- ALL STRUCTURAL FILL TO BE PLACED AND COMPACTED PER THE PROJECT GEOTECHNICAL REPORT OR TO A MINIMUM OF 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE AASHTO T-180 (D-1557) METHOD OF COMPACTION. LIFTS SHOULD BE PLACED PER GEOTECHNICAL RECOMMENDATIONS BUT SHOULD NOT EXCEED 8" IN LOOSE THICKNESS.
- REMOVE SURFACE VEGETATION AND OTHER DELETERIOUS MATERIALS OVER THE ENTIRE SITE IN PREPARATION OF PROPOSED IMPROVEMENTS.



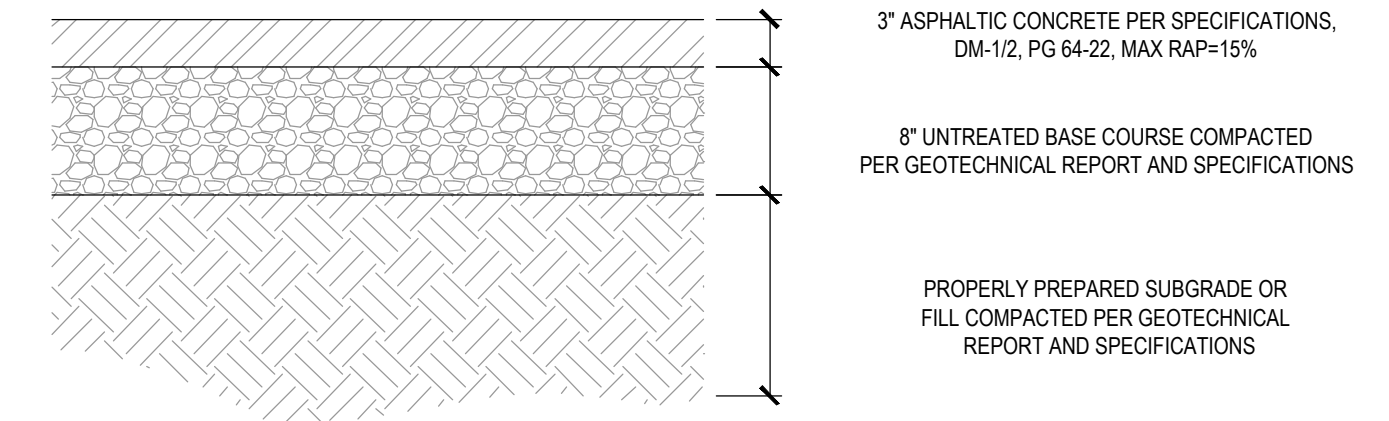
- NOTE:**
- CONSTRUCT PER NOTES AND SPECIFICATIONS ASSOCIATED WITH APWA STANDARD PLAN NO. 205.
 - PROVIDE EXPANSION JOINT AT 60' MAX. O.C.
 - PROVIDE 2" SCORE AT 8' O.C.



- NOTE:**
- CONSTRUCT PER NOTES AND SPECIFICATIONS ASSOCIATED WITH APWA STANDARD PLAN NO. 205.
 - PROVIDE EXPANSION JOINT AT 60' MAX. O.C.
 - PROVIDE 2" SCORE AT 8' O.C.

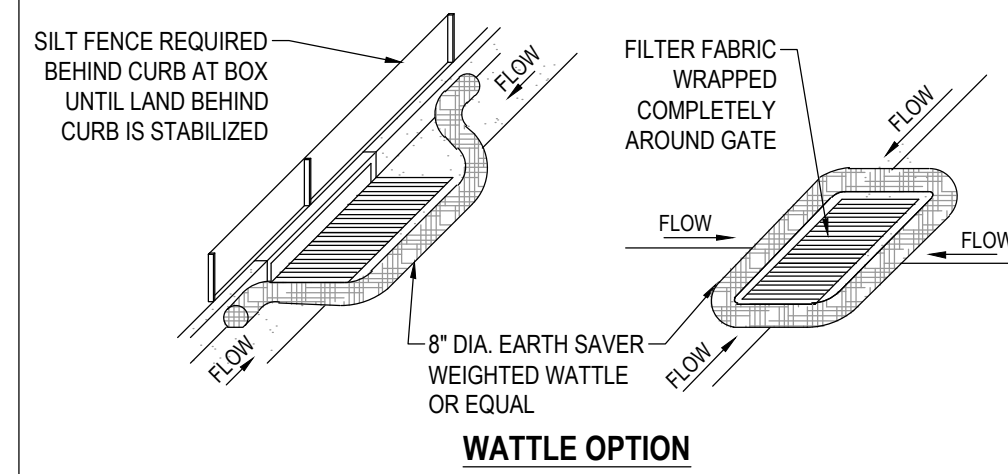
ASPHALT NOTES

- ALL PAVING TO BE PLACED OVER PROPERLY PREPARED NATURAL SOILS AND/OR PROPERLY PREPARED EXISTING FILL SOILS AND PROPERLY COMPACTED STRUCTURAL FILL WHERE SPECIFIED.
- ALL STRUCTURAL FILL TO BE PLACED AND COMPACTED PER THE PROJECT GEOTECHNICAL REPORT OR TO A MINIMUM OF 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE AASHTO T-180 (D-1557) METHOD OF COMPACTION. LIFTS SHOULD BE PLACED PER GEOTECHNICAL RECOMMENDATIONS BUT SHOULD NOT EXCEED 8" IN LOOSE THICKNESS.
- REMOVE SURFACE VEGETATION AND OTHER DELETERIOUS MATERIALS OVER THE ENTIRE SITE IN PREPARATION OF PROPOSED IMPROVEMENTS.

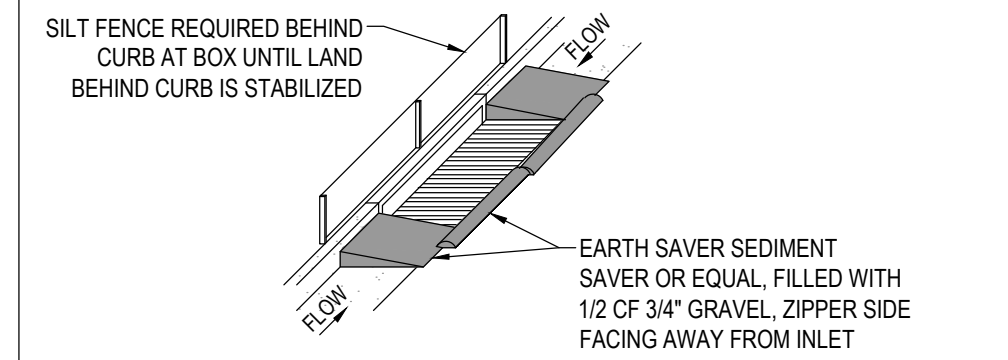


1 CONCRETE PAVEMENT SECTION

SCALE: NONE

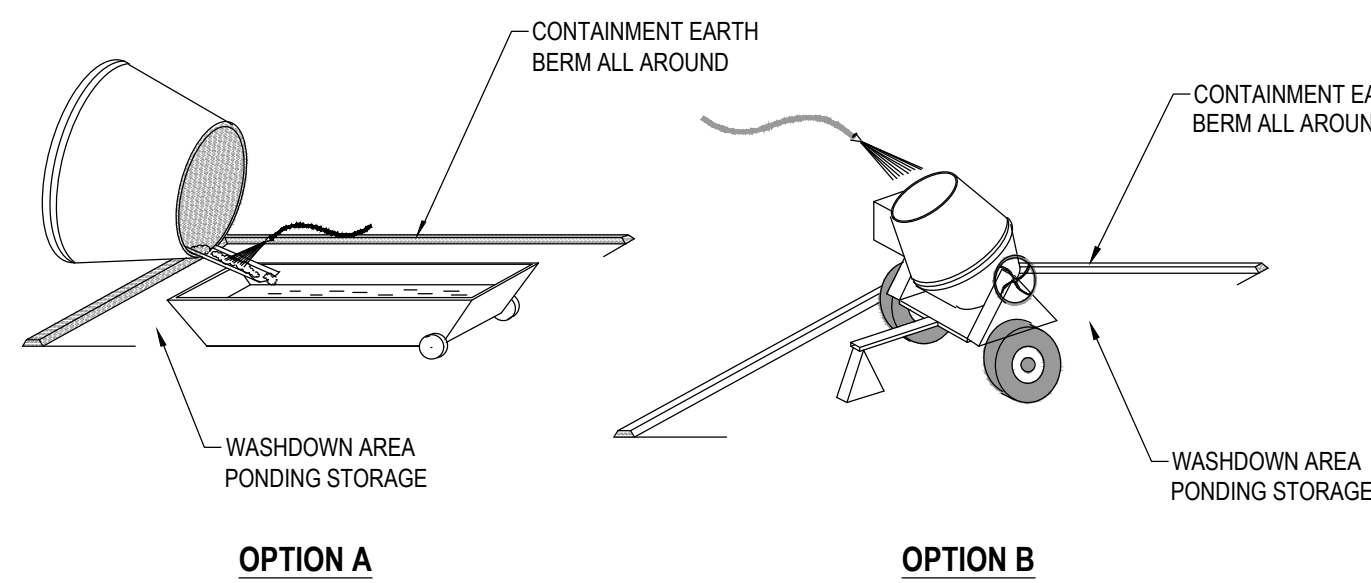


- NOTES:**
- PLACE WATTLES OR GRAVEL BAGS TIGHT AGAINST CURB TO PREVENT SEDIMENT-LADEN WATER FROM GETTING BETWEEN CURB AND WATTLEBAG.
 - PLACE WATTLES OR GRAVEL BAGS SUCH THAT FLOW DOES NOT OVERTOP CURB OR ROAD CENTERLINE.
 - INSPECT INLET PROTECTION AFTER EVERY LARGE STORM EVENT AND AT LEAST BI-WEEKLY, OR PER SWPPP REQUIREMENTS, WHICHEVER IS MORE STRINGENT, TO ENSURE THAT SEDIMENT CONTROL IS MEETING ITS DESIGN INTENT. MAINTAIN AND/OR REPLACE AS NEEDED.
 - REMOVE SEDIMENT ACCUMULATED WHEN IT REACHES 50% OF GRAVEL BAG OR WATTLE HEIGHT.
 - CONTRACTOR MAY SUBMIT AN ALTERNATIVE METHOD OF INLET PROTECTION. THE ALTERNATIVE METHOD SHALL BE APPROVED BY THE CITY INSPECTOR AND THE ENGINEER OF RECORD.
 - BEFORE PLACEMENT OF CURB, STABILIZATION OF LAND BEHIND CURB, AND/OR PAVING, MAINTAIN TOP OF INLET AT 6" ABOVE GRADE, AND SURROUND WITH SILT FENCE FOR SEDIMENTATION AROUND BOX. MAINTAIN SILT FENCE BEHIND BOX UNTIL LAND BEHIND CURB IS STABILIZED.



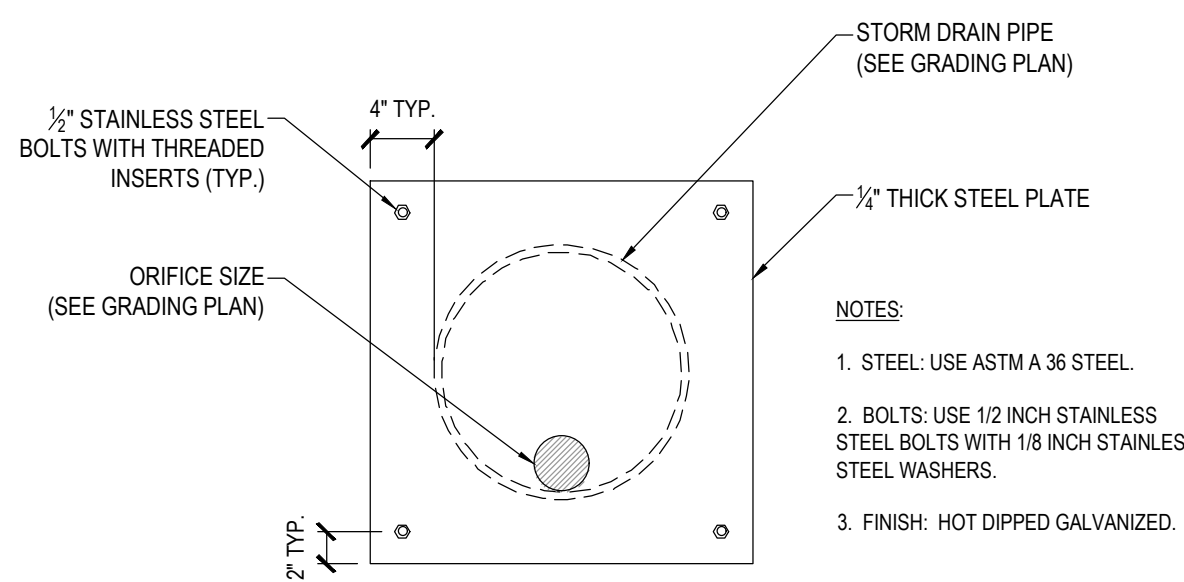
5 SAG INLET PROTECTION

SCALE: NONE



9 CONCRETE WASTE MANAGEMENT

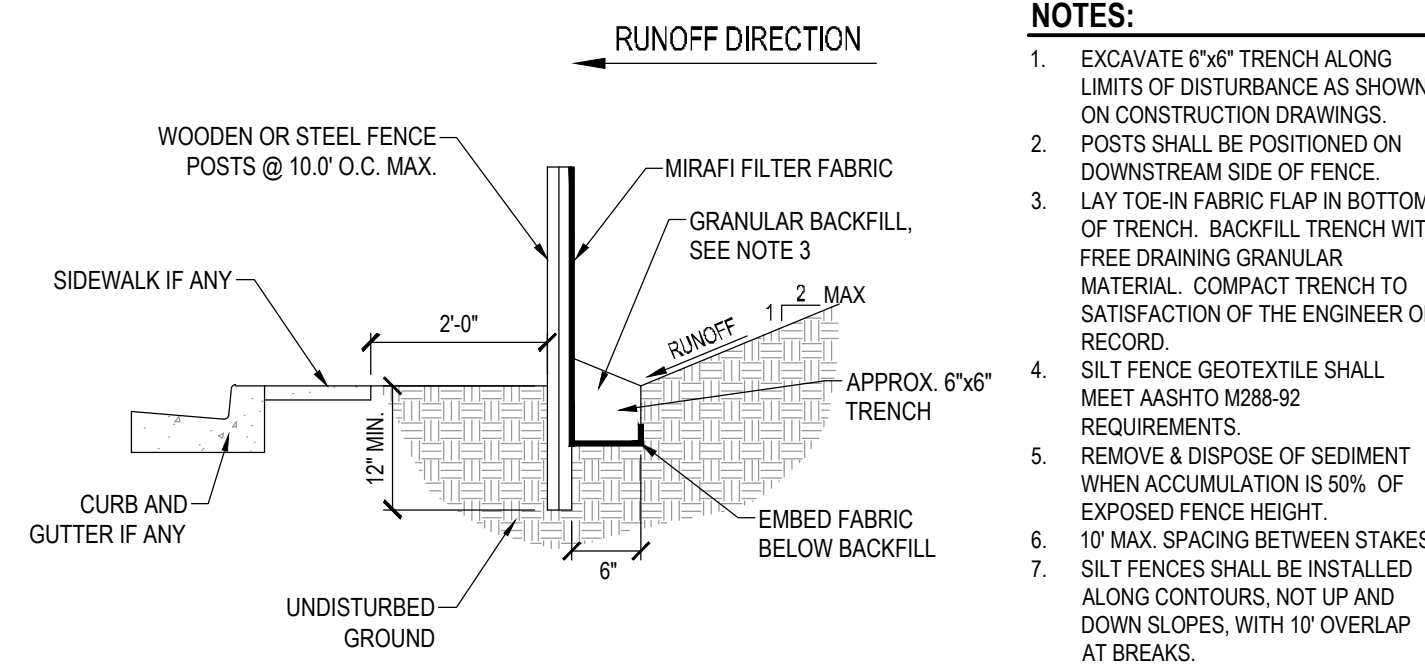
SCALE: NONE



- NOTES:**
- STEEL: USE ASTM A 36 STEEL.
 - BOLTS: USE 1/2 INCH STAINLESS STEEL BOLTS WITH 1/8 INCH STAINLESS STEEL WASHERS.
 - FINISH: HOT DIPPED GALVANIZED.

2 24" COLLECTION CURB AND GUTTER

SCALE: NONE

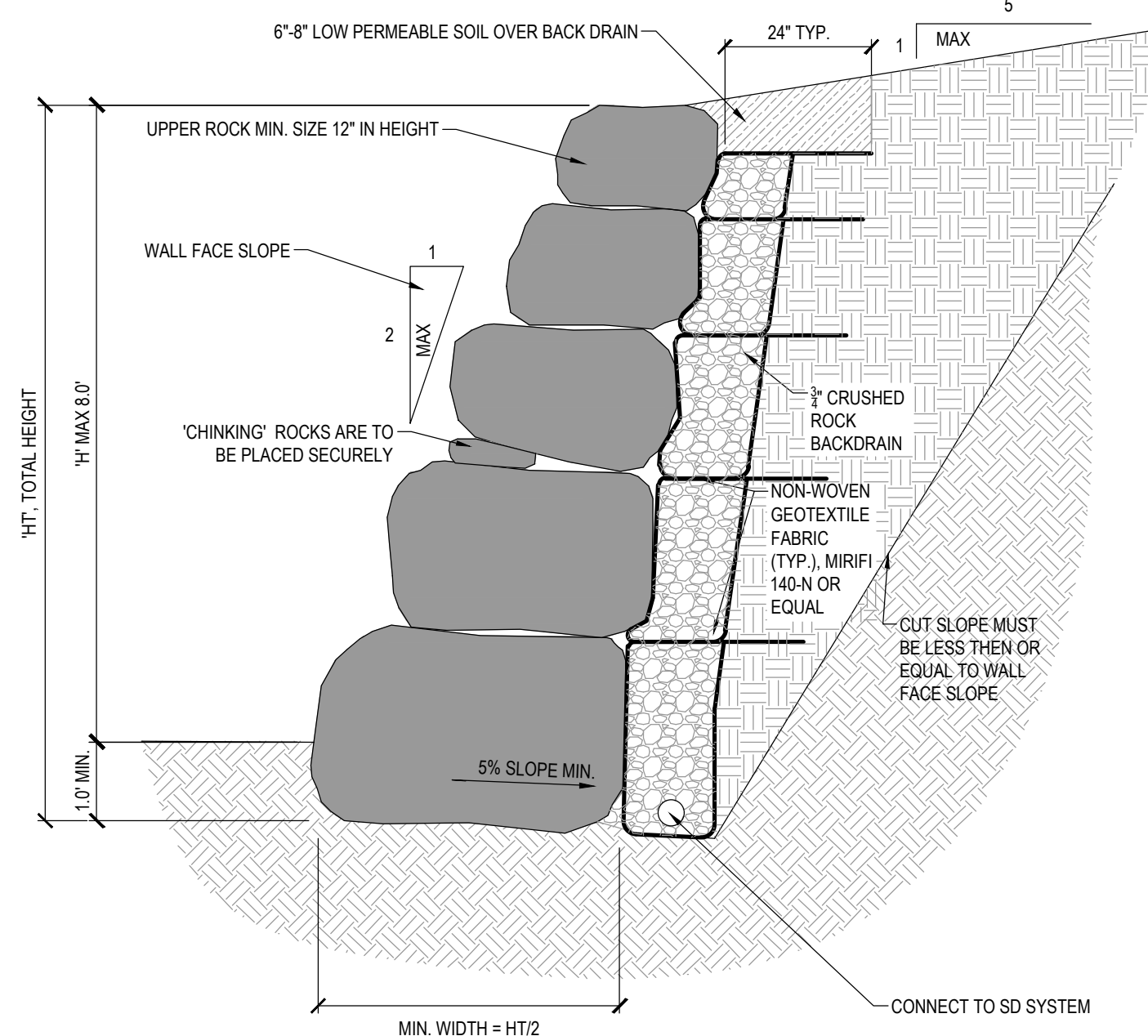


- NOTES:**
- EXCAVATE 6"x6" TRENCH ALONG LIMITS OF DISTURBANCE AS SHOWN ON CONSTRUCTION DRAWINGS. POSTS SHALL BE POSITIONED ON DOWNSTREAM SIDE OF FENCE.
 - LAY TOE-IN FABRIC FLAP IN BOTTOM OF TRENCH. BACKFILL TRENCH WITH FREE DRAINING GRANULAR MATERIAL. COMPACT TRENCH TO SATISFACTION OF THE ENGINEER OF RECORD.
 - SILT FENCE GEOTEXTILE SHALL MEET AASHTO M288-92 REQUIREMENTS.
 - REMOVE & DISPOSE OF SEDIMENT WHEN ACCUMULATION IS 50% OF EXPOSED FENCE HEIGHT.
 - 10' MAX. SPACING BETWEEN STAKES.
 - SILT FENCES SHALL BE INSTALLED ALONG CONTOURS, NOT UP AND DOWN SLOPES, WITH 10' OVERLAP AT BREAKS.

6 TEMPORARY SILT FENCE

SCALE: NONE

- NOTES:**
- EACH ROCK IS TO BE PLACED INDIVIDUALLY OF THE SIZE AND SHAPE SPECIFIED. ENSURE THAT EACH ROCK IS SET AND SUPPORTED BY UNDERLYING MATERIALS AND ADJACENT ROCKS. REPOSITION OR REPLACE LOOSE ROCKS.
 - UPPER ROCKS ARE TO BE SUPPORTED BY (2) ROCKS IN ROW BELOW. ROCKS ARE TO BE OFFSET SO THAT VERTICAL SEAMS ARE NOT CONSTRUCTED IN WALL.
 - PLACE BASE, FACING, AND CAP ROCKS SO THAT THEIR HEIGHT DIMENSION IS NOT GREATER THAN THEIR WIDTH. THE LONGEST DIMENSION OF THE BASE, FACING, AND CAP ROCKS IS PERPENDICULAR TO THE FACE OF ROCKERY. TYPICAL BASE DIMENSION IS 1.5 x HEIGHT OF ROCK.
 - ROCKS ARE TO BE PLACED SO THAT SLOPE BACK INTO HILLSIDE AT A MIN. OF 5%. PROVIDE 'CHINKS' AS NECESSARY BETWEEN ROCKS TO SLOPE UPPER ROCKS ADEQUATELY.
 - ALL FILL TO BE COMPACTED TO 90% MAX DRY DENSITY PLACED IN 8" LIFTS.
 - STABILITY OF TEMPORARY CUT SLOPES IS THE RESPONSIBILITY OF THE CONTRACTOR.
 - DO NOT CONSTRUCT ROCK WALLS OR SLOPES EXCEEDING THE HEIGHTS SHOWN HERE WITHOUT CONSULTING WITH ENGINEER.
 - ROCKS ARE TO BE ANGULAR TO PROVIDE ADEQUATE FLAT SURFACE FOR ROCK TO ROCK CONNECTION. ROUND SHAPED ROCKS ARE NOT ACCEPTABLE.
 - ROCKS ARE TO BE QUARRIED BY NON-EXPLOSIVE METHODS. ROCKS QUARRIED BY BLASTING METHODS ARE PRONE TO CRACKING AND ARE NOT ACCEPTABLE.
 - MAINTENANCE OF ROCK-PROTECTED SLOPES WILL BE REQUIRED AS THE ROCKS SETTLE AND MOVE OVER TIME. LOCALIZED AREAS OF ROCK-PROTECTED SLOPE MAY NEED ADJUSTMENTS TO IMPROVE ROCK INTERLOCKING OVER TIME. ADEQUATE BACKFILL OR ROCK TO ROCK CONTACT SHOULD BE MAINTAINED TO PREVENT SIGNIFICANT MOVEMENT OF THE TOP ROW OF ROCKS.
 - CARE SHOULD BE TAKEN NOT TO OVER WATER THE SOIL LOCATED ABOVE AND BEHIND THE ROCK-PROTECTED SLOPES. OVER WATERING WILL LIKELY RESULT IN SOIL ERODING THROUGH THE JOINTS BETWEEN THE ROCKS.
 - GOOD SURFACE DRAINAGE SHOULD BE PROVIDED UPSLOPE OF THE ROCK-PROTECTED SLOPES TO DIRECT RUNOFF AWAY FROM THE ROCK-PROTECTED SLOPES.

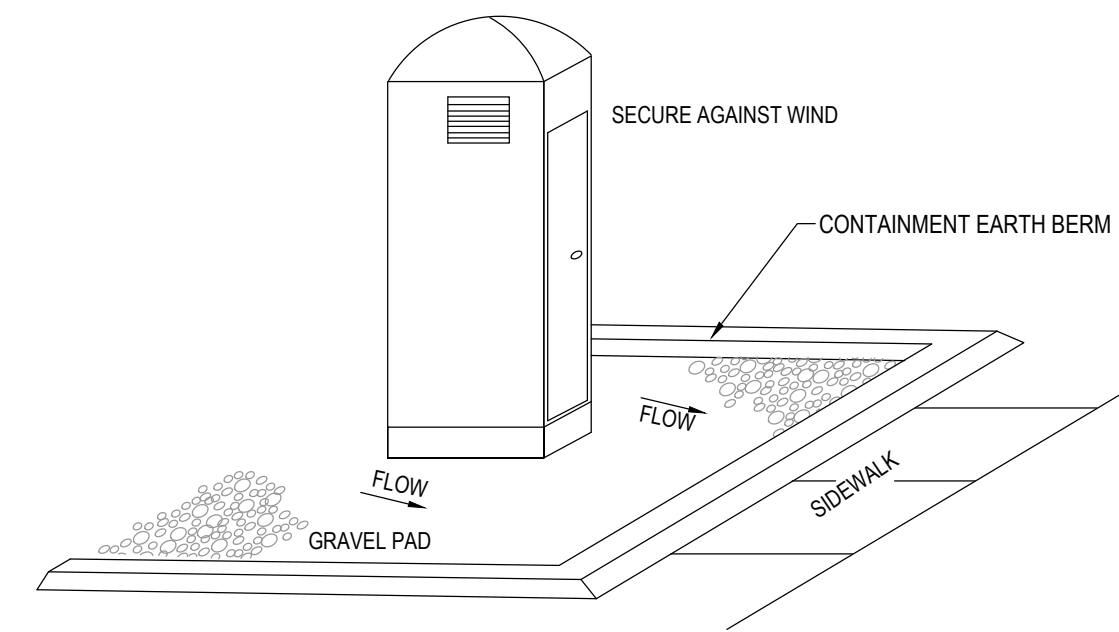


11 ROCK RETAINING WALL

SCALE: NONE

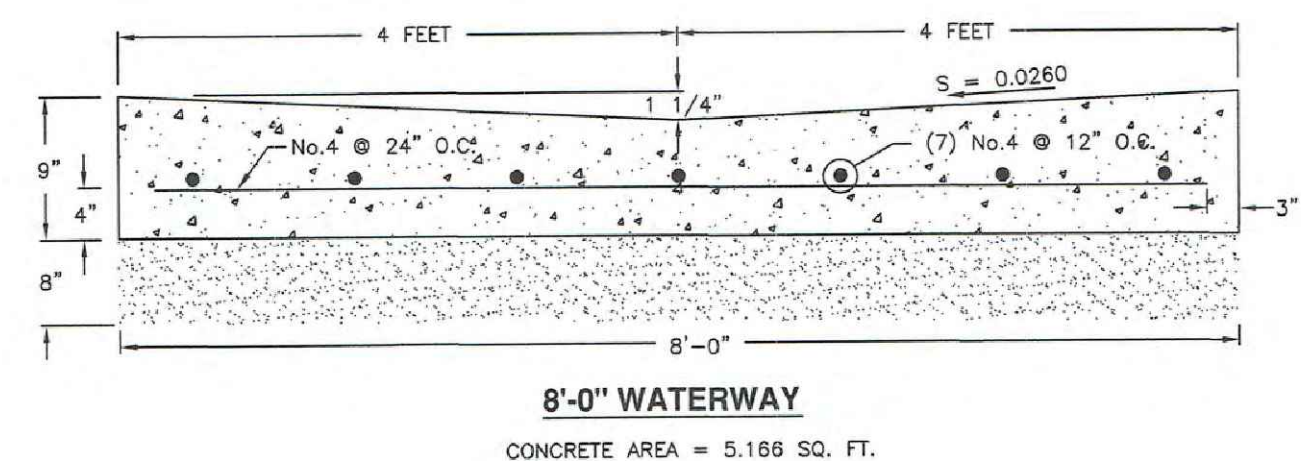
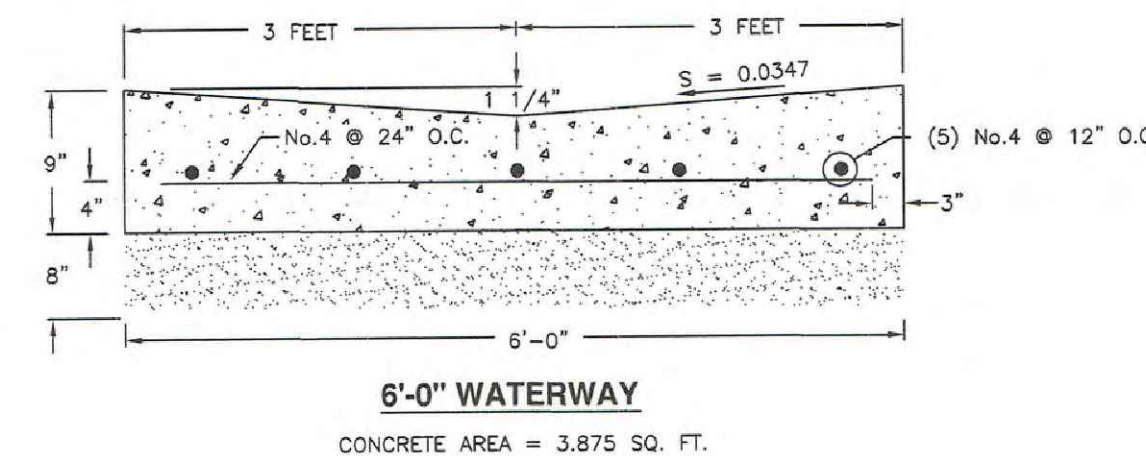
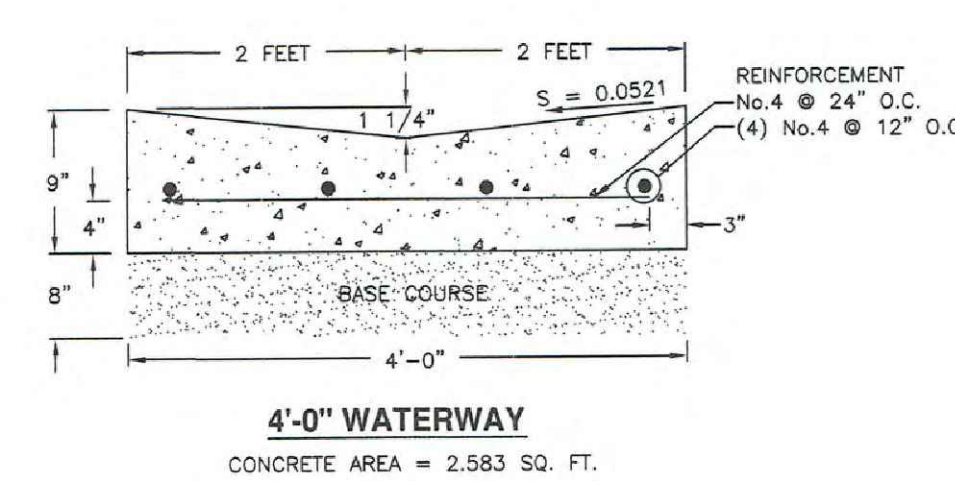
3 24" REVERSE PAN CURB AND GUTTER

SCALE: NONE



7 PORTABLE TOILET

SCALE: NONE

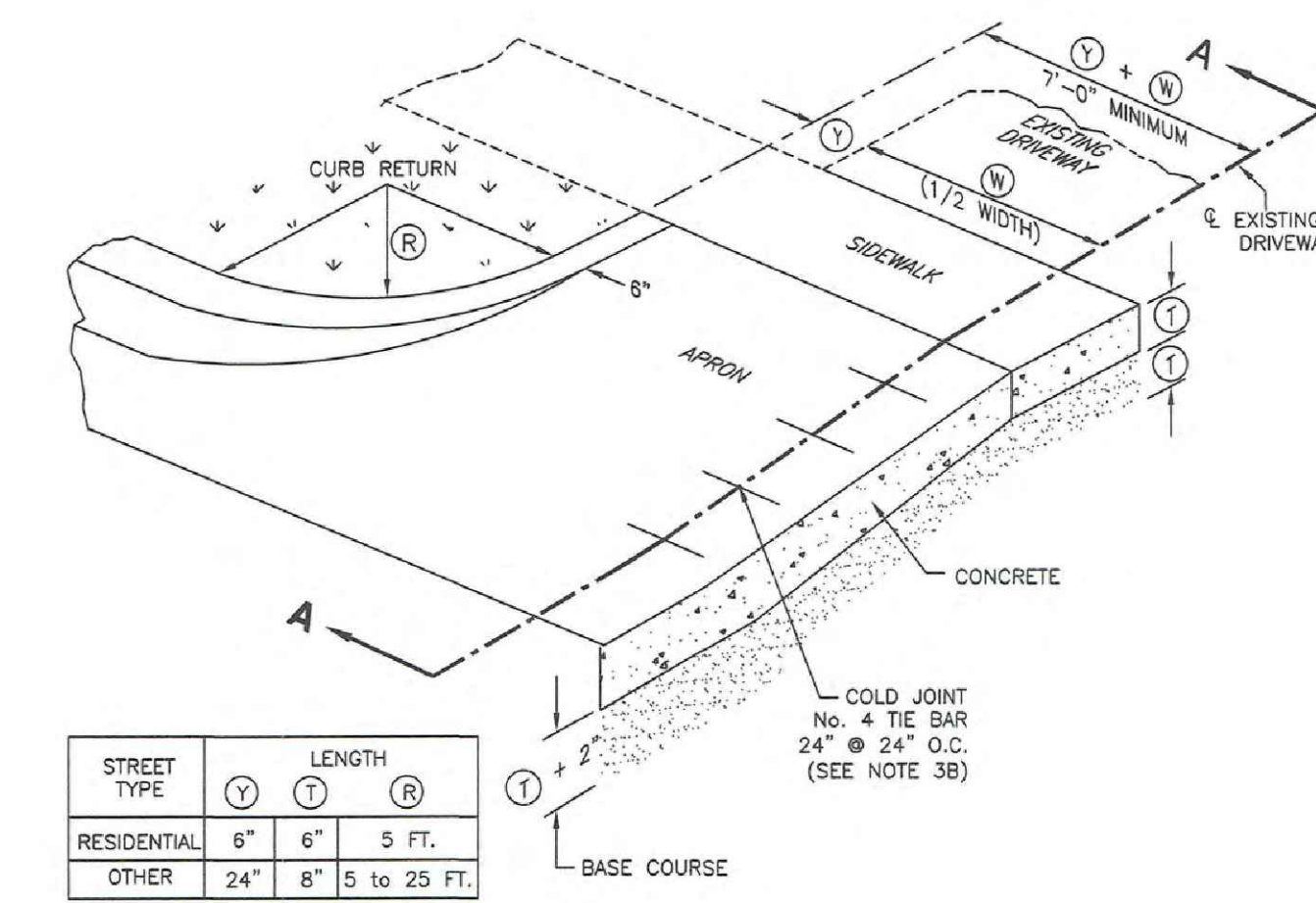


Waterway

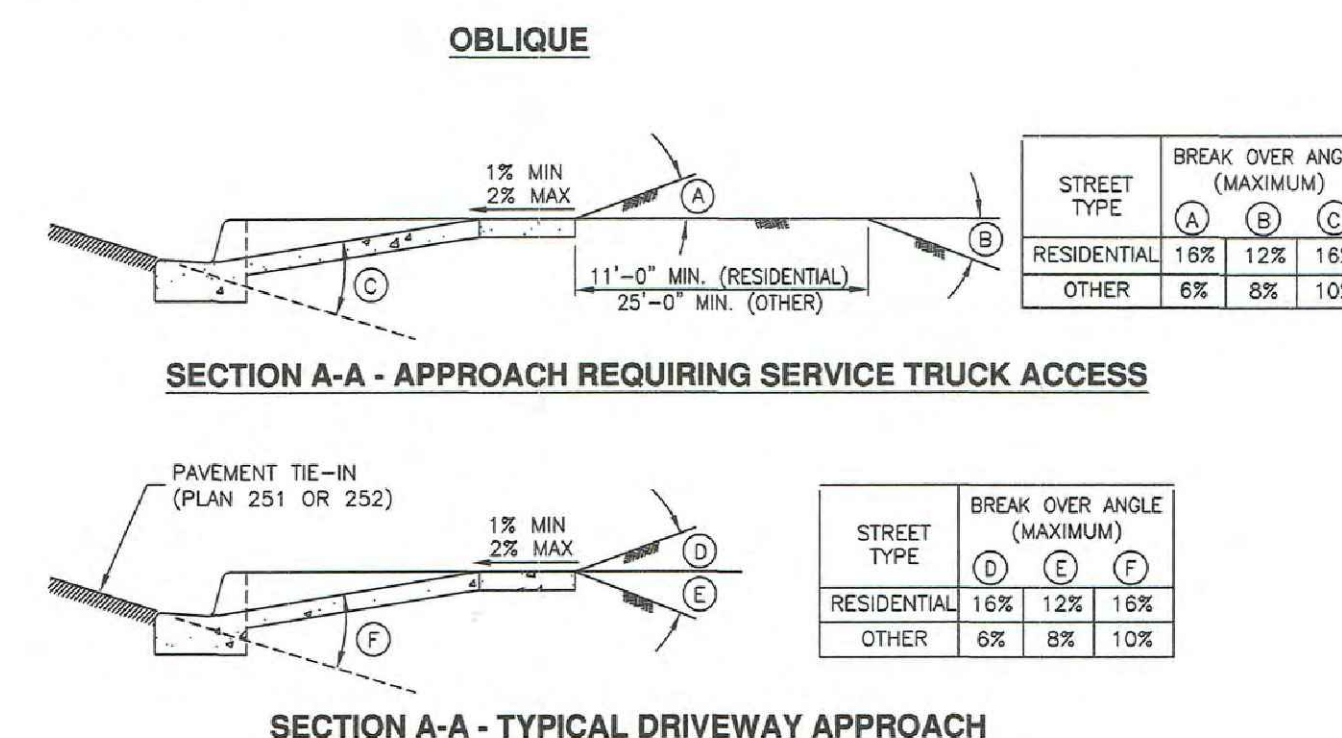
Plan 211
July 2011

8 STABILIZED CONSTRUCTION ENTRANCE

SCALE: NONE



STREET TYPE	Y	T	R
RESIDENTIAL	9"	6"	5 FT.
OTHER	24"	8"	5 to 25 FT.



STREET TYPE	A	B	C
RESIDENTIAL	16%	12%	16%
OTHER	6%	8%	10%

STREET TYPE	D	E	F
RESIDENTIAL	16%	12%	16%
OTHER	6%	8%	10%



Open driveway approach

Plan 225
December 2009

10 ORIFICE PLATE

SCALE: NONE



SALT LAKE CITY
45 W. 10000 S., Suite 500
Sandy, UT 84070
Phone: 801.255.0529

LAYTON
Phone: 801.547.1100

TOOELE
Phone: 435.843.3590

CEDAR CITY
Phone: 435.865.1453

RICHFIELD
Phone: 435.896.2983

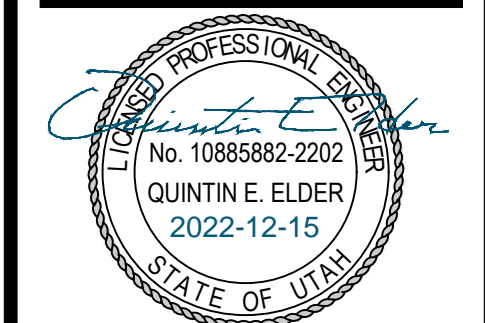
WWW.ENSIGNENG.COM

FOR:
HOLIDAY OIL
3115 WEST 2100 SOUTH
WEST VALLEY CITY, UTAH

CONTRACT:
SCOTT WAGSTAFF
PHONE: 801-973-7002



HOLIDAY OIL SANTAQUIN
45 SOUTH 300 EAST
SANTAQUIN, UTAH



DETAILS

PROJECT NUMBER: 6468A
PRINT DATE: 10/25/2022
DRAWN BY: MM
CHECKED BY: CRE
PROJECT MANAGER: CGD

C600

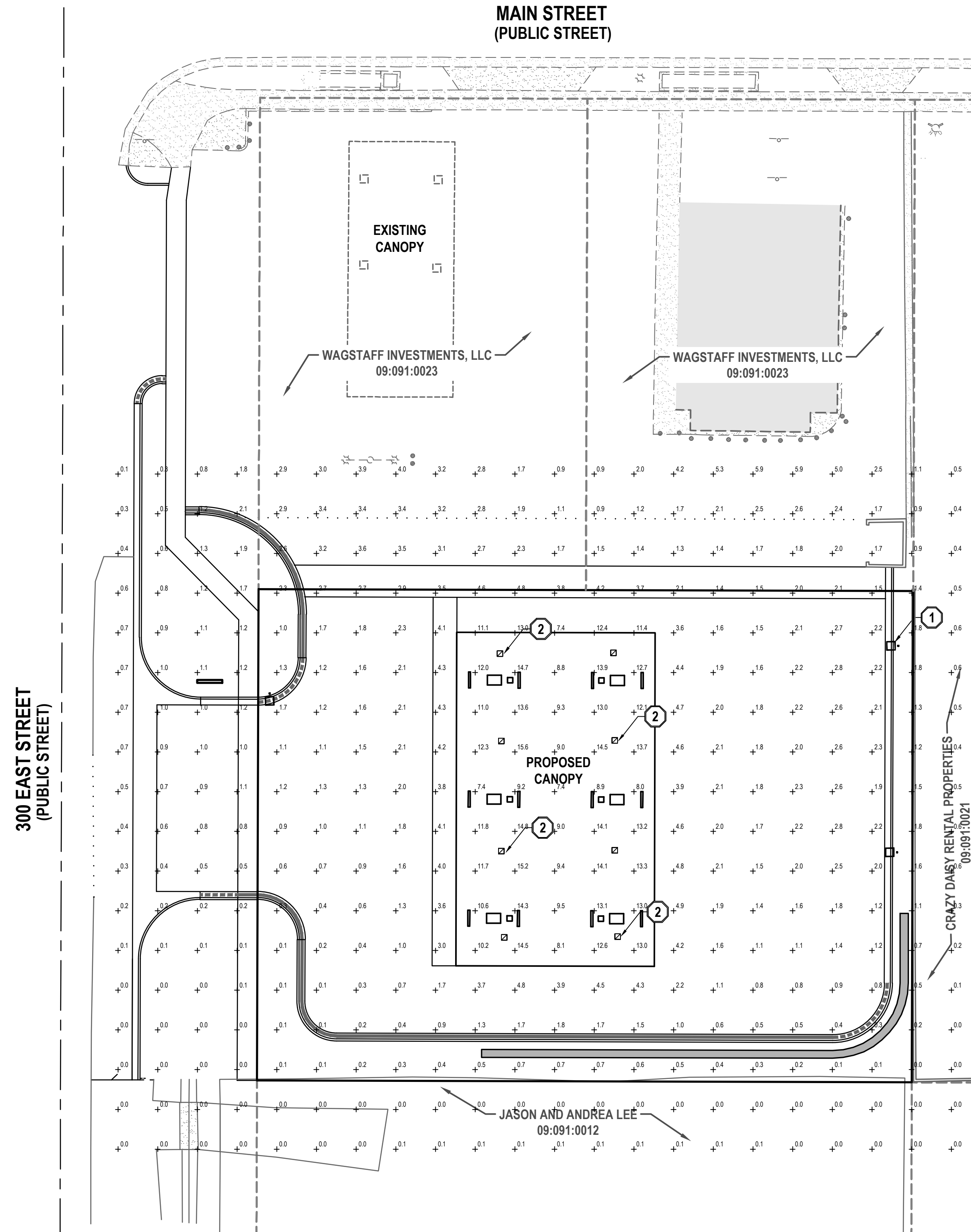
811
 Know what's below.
 Call before you dig.

BENCHMARK
 NORTH QUARTER CORNER OF SECTION 01,
 TOWNSHIP 9 SOUTH, RANGE 1 EAST
 SALT LAKE BASE AND MERIDIAN
 ELEV = 4880.90'

PARKING CALCULATION SUMMARY (TOTAL):
 SITE AVERAGE: 4.0 FC
 MAX. MOUNTING HEIGHT 20'
 FULL CUTOFF LIGHT POLE FIXTURE AS REQUIRED
 ALL LIGHT FIXTURES SHALL BE DARK SKY COMPLIANT

TYPE	MOUNTING	LAMPS	DESCRIPTION
1	20' POLE	LED	CUTOFF LIGHT FIXTURE SEE LSI SLICE MEDIUM AREA LIGHT SUBMITTAL
2	CANOPY	LED	CUTOFF (FULL RECESS INTO CANOPY) - SEE COPY SERIES - VERSION C SUBMITTAL
SEE SITE ELECTRICAL PLAN FOR CIRCUITING AND FIXTURE TYPES			

- NOTES:
1. ALL LIGHTING FIXTURES SHALL BE OF THE FULL CUTOFF VARIETY.
 2. ANGLE SHALL BE DIRECTED DOWNWARD.
 3. BULBS MAY NOT EXCEED 4000K
 4. ALL FREE STANDING LIGHT FIXTURES SHALL BE BLACK.
 5. ALL SITE LIGHTING SHALL MEET THE STANDARDS OF SANTAQUIN CITY.



SALT LAKE CITY
 45 W. 10000 S., Suite 500
 Sandy, UT 84070
 Phone: 801.255.0529

LAYTON
 Phone: 801.547.1100

TOOELE
 Phone: 435.843.3590

CEDAR CITY
 Phone: 435.865.1453

RICHFIELD
 Phone: 435.896.2983

WWW.ENSIGNENG.COM

FOR:
 HOLIDAY OIL
 3115 WEST 2100 SOUTH
 WEST VALLEY CITY, UTAH

CONTACT:
 SCOTT WAGSTAFF
 PHONE: 801-973-7002

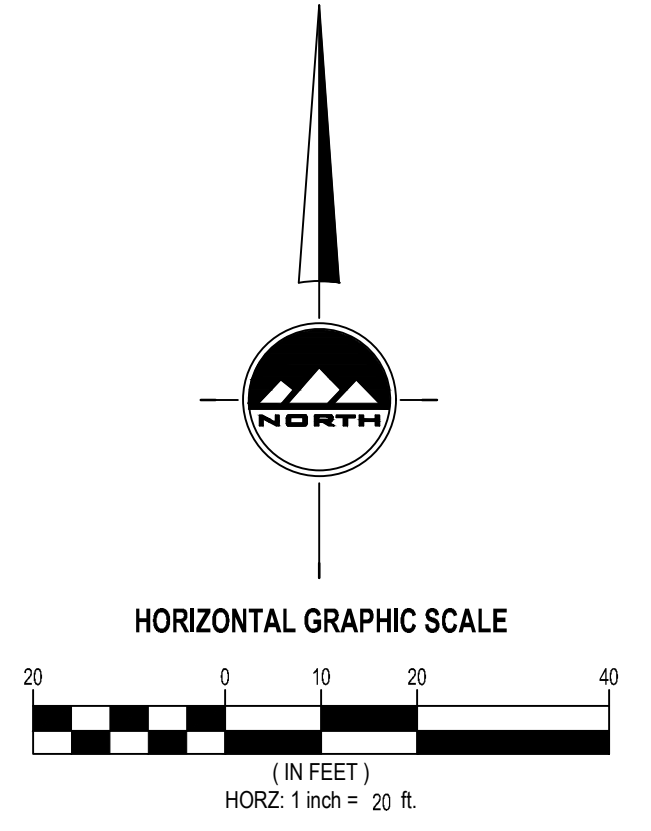


HOLIDAY OIL SANTAQUIN
 45 SOUTH 300 EAST
 SANTAQUIN, UTAH

PHOTOMETRIC PLAN

PROJECT NUMBER: 6458A
 PRINT DATE: 10/25/2022
 DRAWN BY: MM
 CHECKED BY: QRE
 PROJECT MANAGER: CGD

PH100



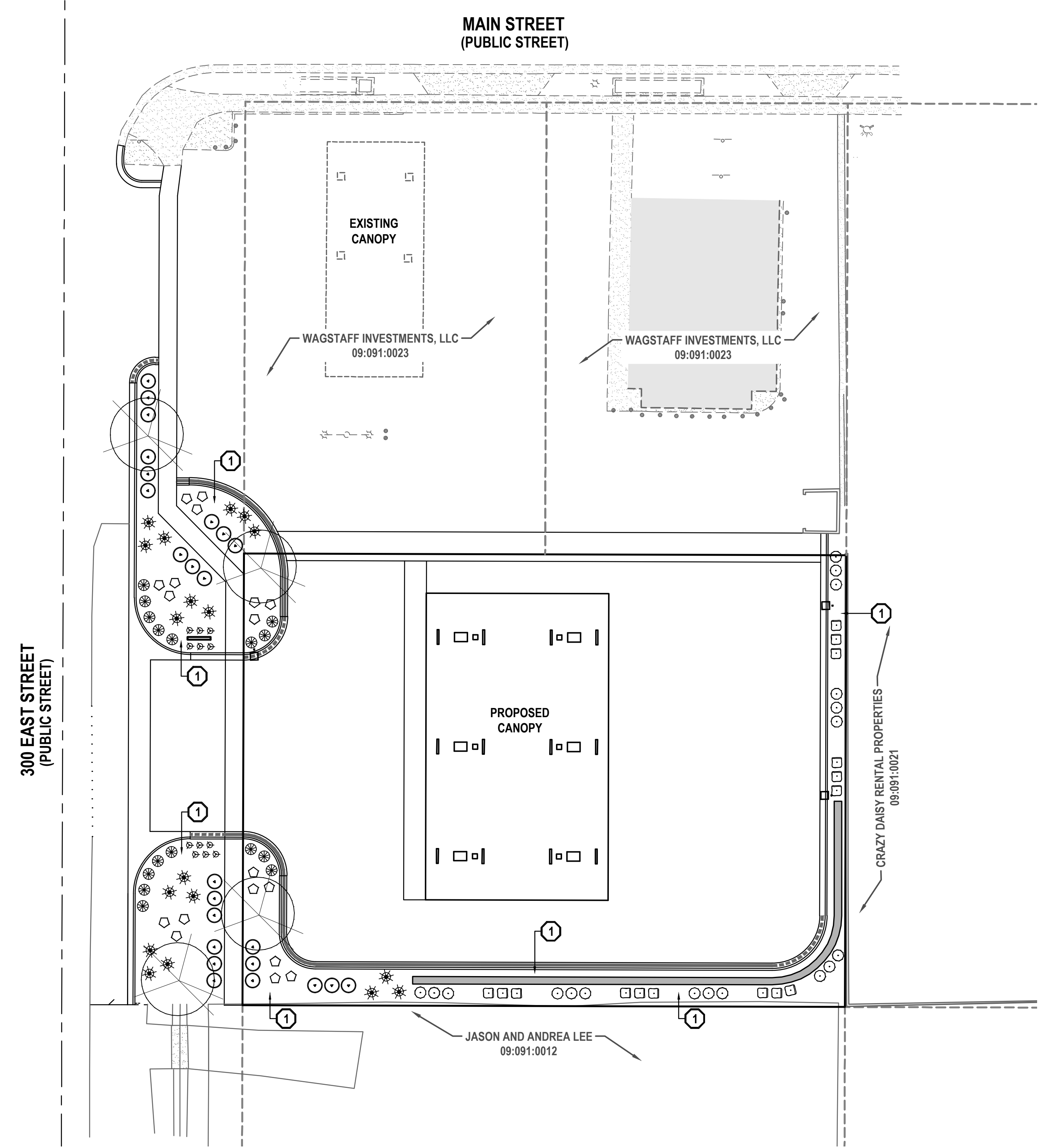
811
 Know what's below.
 Call before you dig.

CALL BLUESTAKES
 @ 811 AT LEAST 48 HOURS
 PRIOR TO THE
 COMMENCEMENT OF ANY
 CONSTRUCTION.

BENCHMARK

NORTH QUARTER CORNER OF SECTION 01,
 TOWNSHIP 9 SOUTH, RANGE 1 EAST
 SALT LAKE BASE AND MERIDIAN

ELEV = 4880.90'



Landscape

Trees

Qty	Symbol	Common Name	Botanical Name	Plant Size
4		Amur Maple	Acer ginnala	2" Cal.

Shrubs

Qty	Symbol	Common Name	Botanical Name	Plant Size
18		Cinquefoil	Potentilla fruticosa 'Abbotswood'	5 Gallon
24		Winged Euonymus	Euonymus alatus 'Grove's Compactus'	5 Gallon
18		Pine, Mugo	Pinus mugo 'Compacta'	5 Gallon
16		Feather Reed Grass 'Karl Foerster'	Calamagrostis acutiflora 'Karl Foerster'	5 Gallon
18		Barberry, 'Crimson Pygmy'	Berberis thunbergii atropurpurea nana	5 Gallon
15		Boxwood, Littleleaf	Buxus microphylla	5 Gallon

Annuals-Perennials

Qty	Symbol	Common Name	Botanical Name	Plant Size
12		Daylily	Hemerocallis	1 Gallon

① In all planter bed areas, install 4" deep 2'-3" dia. Nephi Rock & Gravel color 'Southtown' or equiv. decorative rock over weed barrier, typ.



SALT LAKE CITY
 45 W. 10000 S., Suite 500
 Sandy, UT 84070
 Phone: 801.255.0529

LAYTON
 Phone: 801.547.1100

TOOELE
 Phone: 435.843.3590

CEDAR CITY
 Phone: 435.865.1453

RICHFIELD
 Phone: 435.896.2983

WWW.ENSIGNENG.COM

FOR:
 HOLIDAY OIL
 3115 WEST 2100 SOUTH
 WEST VALLEY CITY, UTAH
 CONTACT:
 SCOTT WAGSTAFF
 PHONE: 801-973-7002



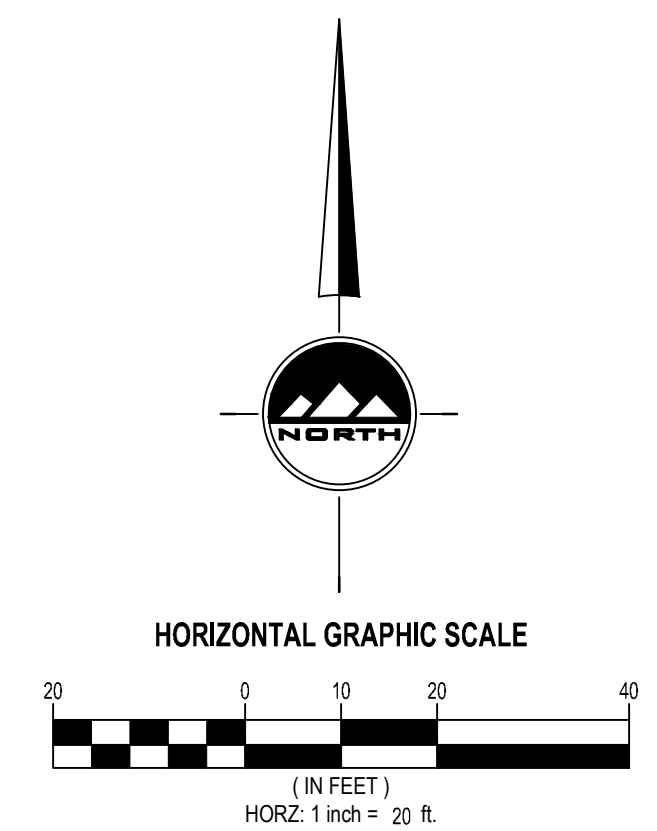
HOLIDAY OIL SANTAQUIN

45 SOUTH 300 EAST
SANTAQUIN, UTAH

LANDSCAPE PLAN

PROJECT NUMBER: 6458A
 PRINT DATE: 10/25/2022
 DRAWN BY: MM
 CHECKED BY: QRE
 PROJECT MANAGER: CGD

L100

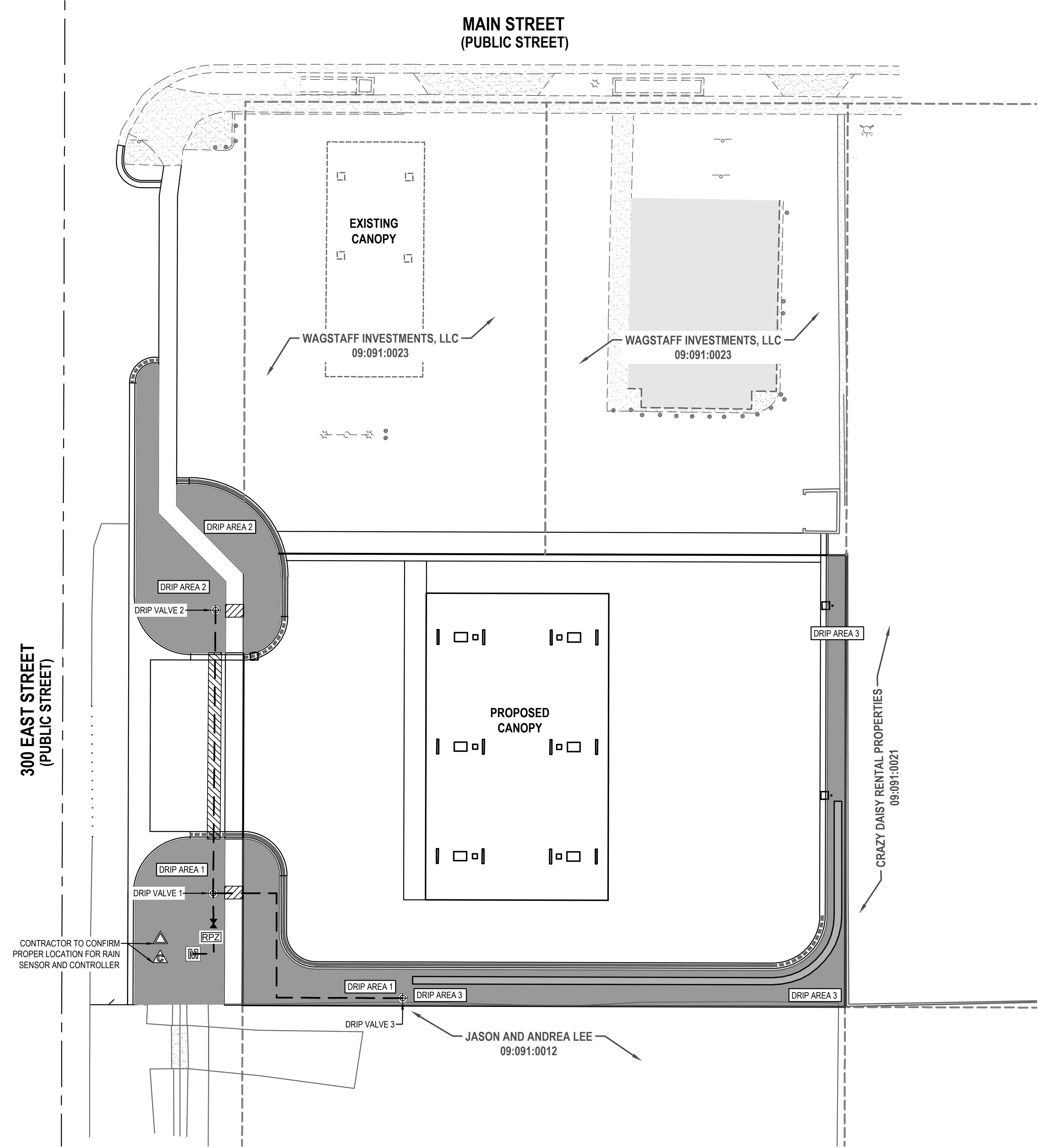


811
Know what's below.
Call before you dig.

CALL BLUESTAKES
@ 811 AT LEAST 48 HOURS
PRIOR TO THE
COMMENCEMENT OF ANY
CONSTRUCTION.

BENCHMARK

NORTH QUARTER CORNER OF SECTION 01,
TOWNSHIP 9 SOUTH, RANGE 1 EAST
SALT LAKE BASE AND MERIDIAN
ELEV = 4880.90'



Irrigation

Qty	Symbol	Description
3		Rain Bird X CZ-100 COM
		Pipe Sleeve - 2x Pipe Diameter
		Mainline - Schedule 40 PVC
1		1 inch meter
1		Rain Bird RSD-BEX Rain Sensor
1		Rain Bird ESP-LX Plus Controller with Metal Pedestal
1		Mueller 1" Brass Stop and Waste
1		RPZ Backflow Prevention Device
		Rain Bird XBS Black Stripe Tubing with Rain Bird XB-10 Emitters*

*Install 2 emitters per shrub, 4 emitters per tree

** NOTES **
THIS IRRIGATION SYSTEM WAS DESIGNED AT AND 60 (WORKING) PSI AT THE POINT OF CONNECTION. IF THESE MINIMUM REQUIREMENTS CAN NOT BE MET, PLEASE CONTACT THE DESIGNER. **THIS PLAN WAS DRAWN FOR GRAPHIC CLARITY ONLY.** PLEASE PLACE ALL MAINLINE AND LATERAL LINES IN ADJACENT LANDSCAPE AREAS. SOME FIELD MODIFICATIONS MAY BE NEEDED TO AVOID ON SITE OBSTRUCTIONS.

COORDINATE IRRIGATION CONTROLLER WITH OWNER'S FACILITY OPERATION DEPARTMENT.

ENSIGN
THE STANDARD IN ENGINEERING

SALT LAKE CITY
45 W. 10000 S., Suite 500
Sandy, UT 84070
Phone: 801.255.0529

LAYTON
Phone: 801.547.1100

TOOELE
Phone: 435.843.3590

CEDAR CITY
Phone: 435.865.1453

RICHFIELD
Phone: 435.896.2983

WWW.ENSIGNENG.COM

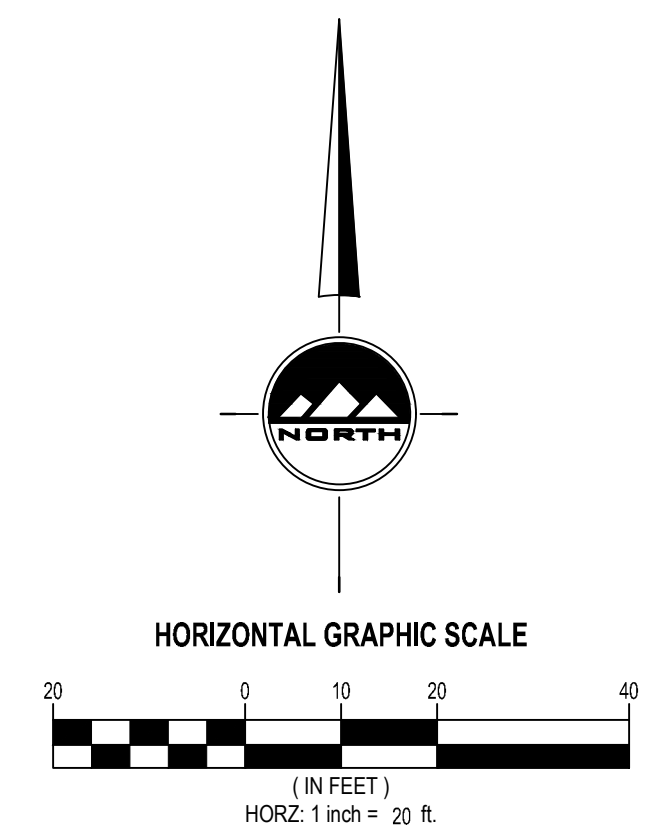
FOR:
HOLIDAY OIL
3115 WEST 2100 SOUTH
WEST VALLEY CITY, UTAH

CONTACT:
SCOTT WAGSTAFF
PHONE: 801-973-7002



HOLIDAY OIL SANTAQUIN

45 SOUTH 300 EAST
SANTAQUIN, UTAH



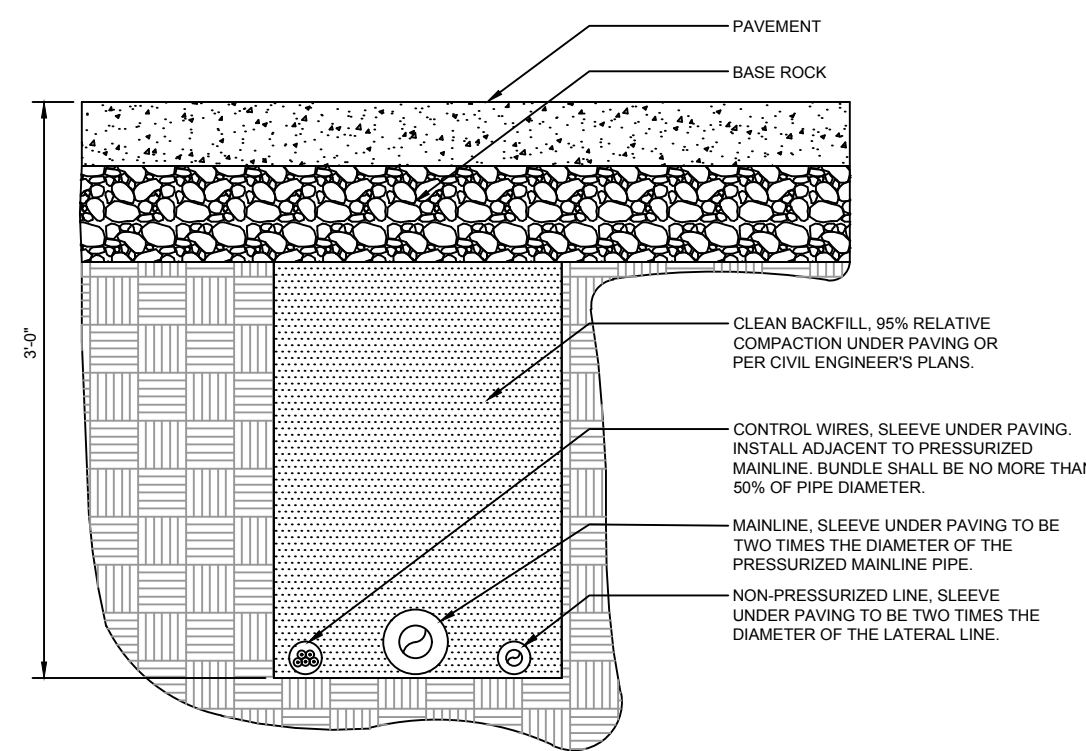
IRRIGATION PLAN

PROJECT NUMBER: 6458A
PRINT DATE: 10/25/2022

DRAWN BY: MM
CHECKED BY: QRE

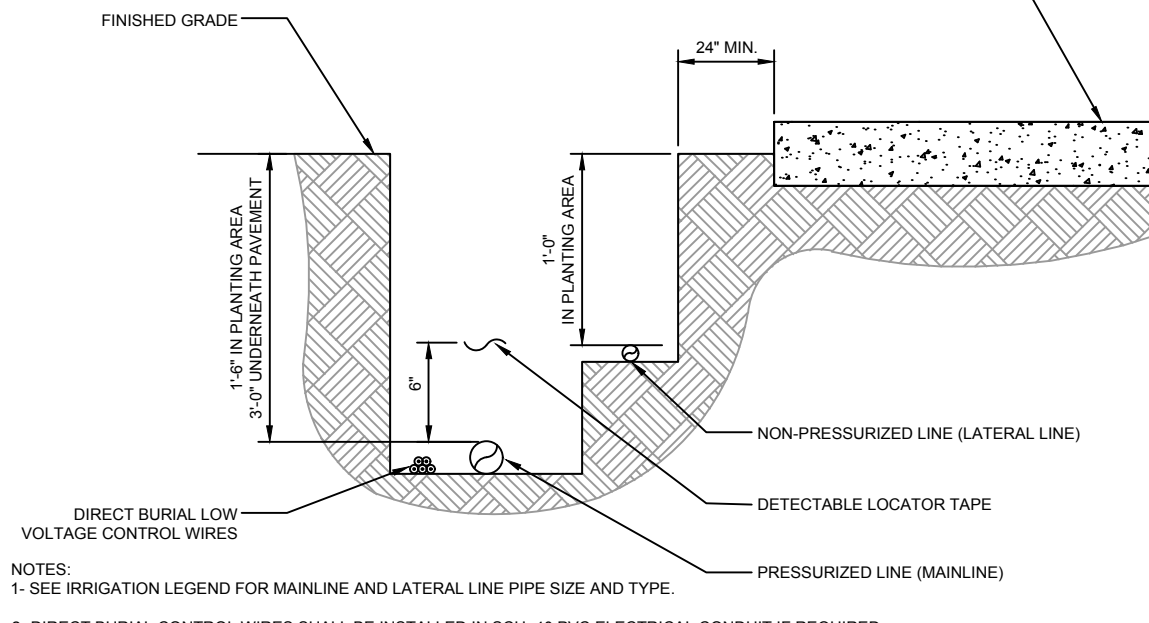
PROJECT MANAGER: CGD

L200



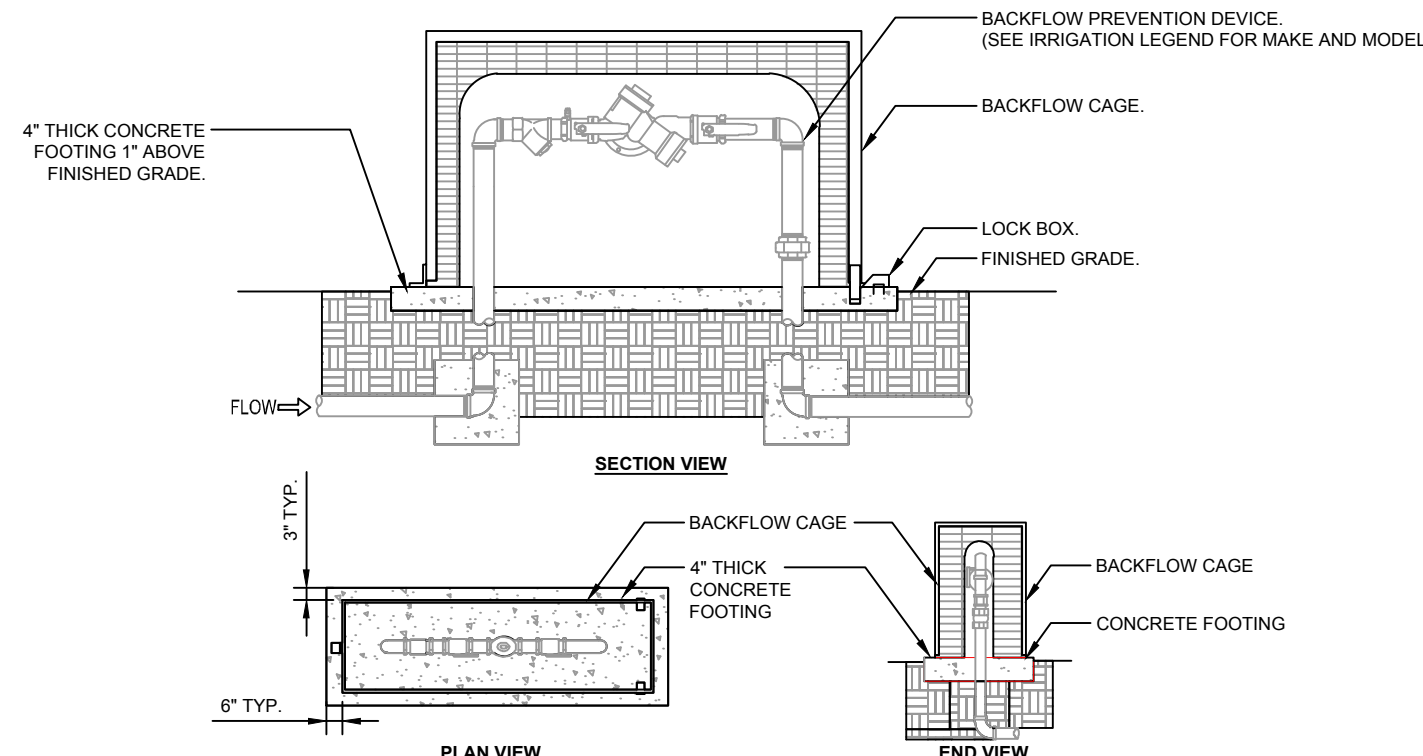
- NOTES:
- SEE IRRIGATION LEGEND FOR MAINLINE SIZE AND TYPE.
 - ALL SLEEVES SHALL BE SCH. 40 PVC PIPE.
 - ALL SLEEVES SHALL EXTEND 12" BEYOND THE EDGE OF PAVEMENT.
 - END OF SLEEVES SHALL BE LOCATED WITH A WOODEN STAKE OR PVC PIPE. LOCATORS SHALL RUN CONTINUOUSLY FROM THE END OF THE SLEEVE TO FINISHED GRADE.

9 PIPE BENEATH PAVEMENT SCALE: NONE



- NOTES:
- SEE IRRIGATION LEGEND FOR MAINLINE AND LATERAL LINE PIPE SIZE AND TYPE.
 - DIRECT BURIAL CONTROL WIRES SHALL BE INSTALLED IN SCH. 40 PVC ELECTRICAL CONDUIT (IF REQUIRED).
 - WIRE IRRIGATION WIRE SHALL BE INSTALLED IN SCH. 40 PVC ELECTRICAL CONDUIT.
 - DETECTABLE LOCATOR TAPE SHALL BE LOCATED SIX INCHES (6") ABOVE THE ENTIRE MAINLINE RUN.

5 IRRIGATION TRENCHING SCALE: NONE



- NOTES:
- INSTALL BACKFLOW CAGE PER MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
 - SEE BACKFLOW PREVENTION DEVICE DETAIL FOR REFERENCE.
 - LOCK BOX SHALL BE LOCATED ABOVE CONCRETE FOOTING.
 - CONTRACTOR SHALL PROVIDE A LOCK AS APPROVED BY THE OWNER'S REPRESENTATIVE.

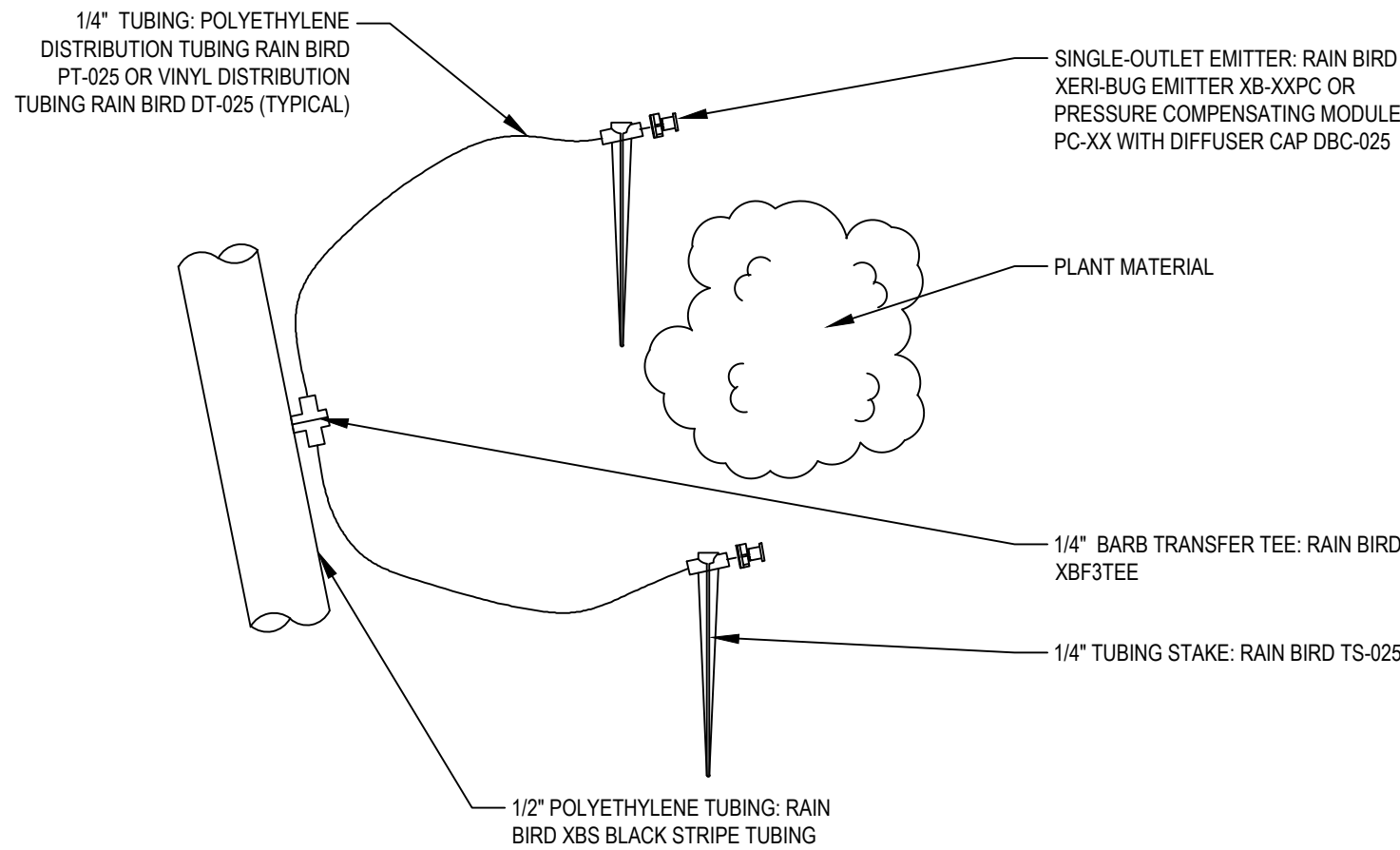
10 BACKFLOW CAGE SCALE: NONE

GENERAL LANDSCAPE NOTES:

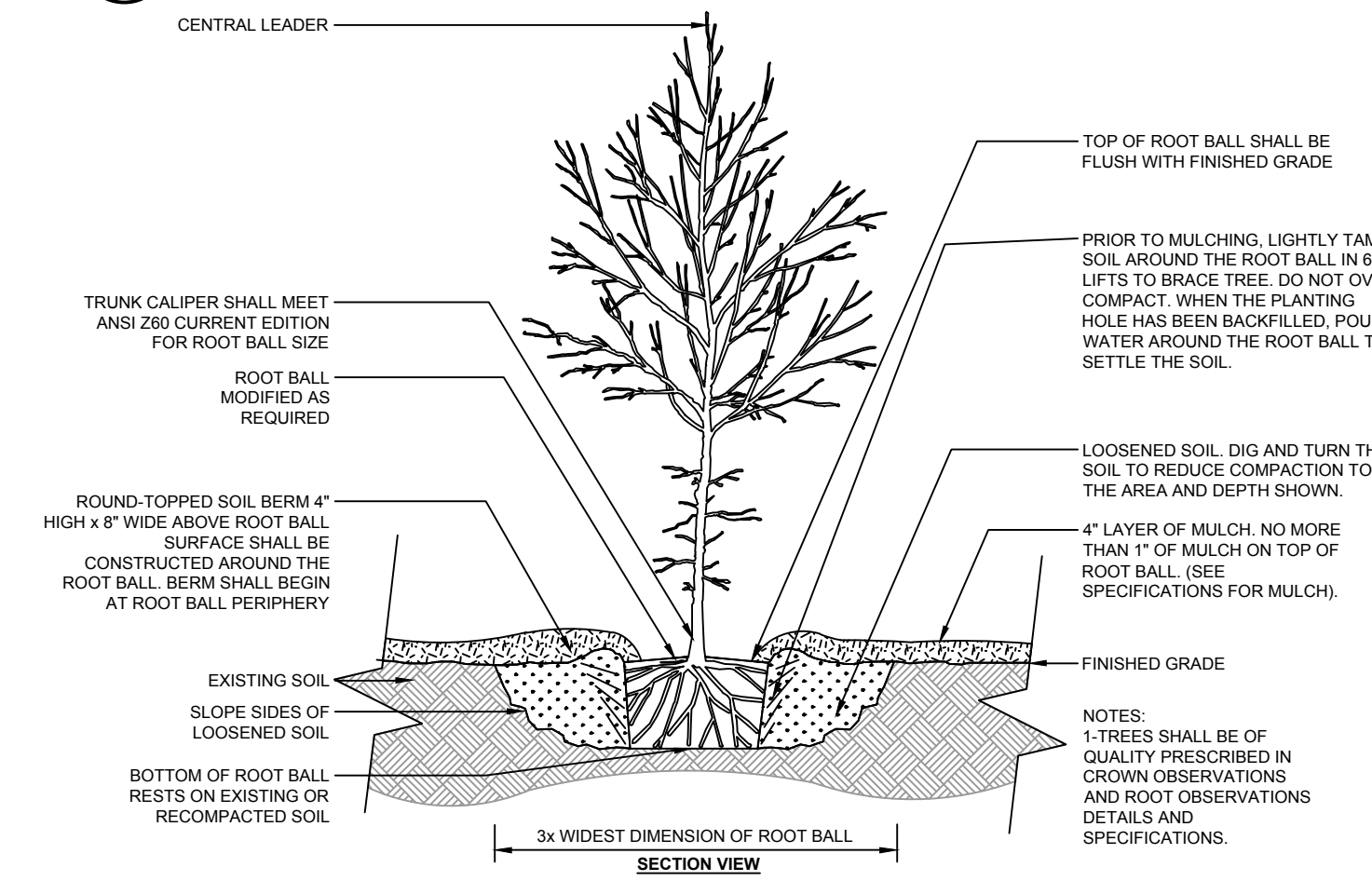
- LANDSCAPE CONTRACTOR HAS THE OPTION TO SUBSTITUTE PLANT MATERIAL IF SPECIFIED GENUS, SPECIES, AND/OR VARIETIES ARE NOT LOCALLY OR REGIONALLY AVAILABLE. LANDSCAPE CONTRACTOR SHALL REPLACE SAID PLANTS WITH THOSE OF LIKE HARDINESS, SIZE, FORM, MOISTURE AND SOLAR REQUIREMENTS, AND MEET THE GENERAL INTENT OF THE ORIGINAL DESIGN. ANY REPLACEMENT PLANTINGS SHALL BE APPROVED BY ENSIGN ENGINEERING AND LAND SURVEYING INC. OR PROJECT REPRESENTATIVE PRIOR TO INSTALLATION. ALL REPLACEMENT PLANT MATERIALS SHALL CONFORM TO CITY APPROVED PLANTS. ALL PLANTING SUBSTITUTION WILL BE APPROVED BY CITY.
- LOCATE ALL UTILITIES AND SITE LIGHTING CONDUITS BEFORE LANDSCAPE CONSTRUCTION BEGINS.
- NOTIFY LANDSCAPE REPRESENTATIVE OF ANY LAYOUT DISCREPANCIES PRIOR TO ANY PLANTING.
- FERTILIZE ALL PLANTS AT THE TIME OF PLANTING WITH TIME RELEASE FERTILIZER.
- MULCH, PER PLAN, SHALL BE USED AS A FOUR INCH (4") TOP DRESSING IN ALL PLANT BEDS AND AROUND ALL TREES. SINGLE TREES OR SHRUBS SHALL BE MULCHED TO THE OUTSIDE EDGE OF THE SAUCER OR LANDSCAPE ISLAND.
- LANDSCAPE CONTRACTOR SHALL INSTALL AN UNDERGROUND, POP-UP IRRIGATION SYSTEM WHICH PROVIDES COMPLETE COVERAGE OF THE SITE AND MEETS COUNTY/CITY REQUIREMENTS AT OR BEFORE THE INSTALLATION OF LANDSCAPE MATERIALS.
- ALL LANDSCAPE MATERIALS SHALL BE IN COMPLIANCE WITH THE AMERICAN STANDARD FOR NURSERY STOCK (ANSI-Z60.1-1986)
- CONTRACTOR SHALL USE AVAILABLE SUITABLE TOPSOIL THAT HAD BEEN STOCKPILED ONSITE. IF QUANTITIES ARE NOT SUFFICIENT TO MEET SITE MINIMUMS CONTRACTOR SHALL PROVIDE ADDITIONAL MATERIALS. ADDITIONAL MATERIAL SHALL BE SUPPLIED BY A COMMERCIAL TOPSOIL SUPPLIER.
- PROVIDE THE FOLLOWING TOP SOIL MINIMUMS:
A. 4" TOPSOIL IN ALL SOD AREAS
B. 6" TOP SOIL IN ALL PLANTER BEDS
- WEED FABRIC SHALL BE A DEWITT SUNBELT WOVEN GROUND COVER INSTALLED W/ GROUND STAPLES ACCORDING TO MANUFACTURER RECOMMENDATIONS.

IRRIGATION NOTES:

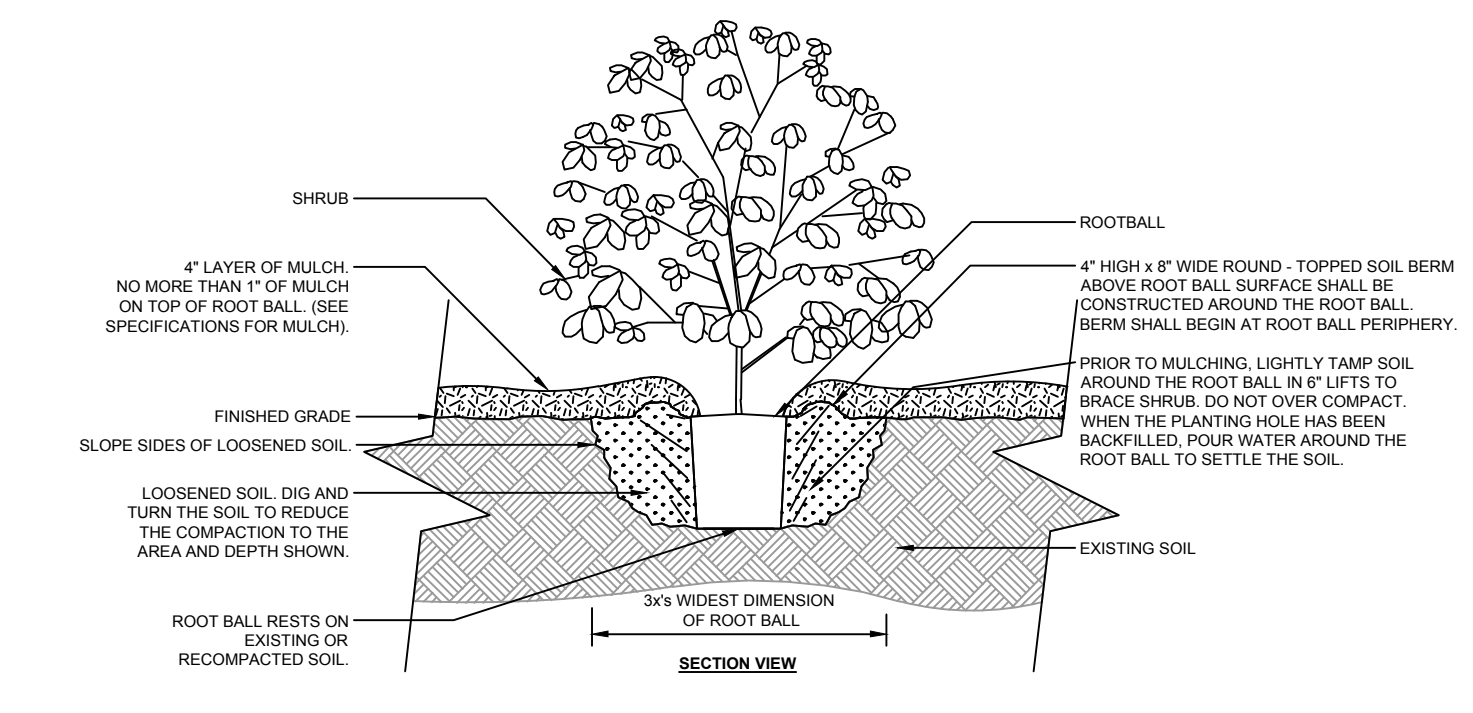
- IRRIGATION SYSTEM SHALL BE INSTALLED IN CONFORMANCE WITH ALL APPLICABLE STATE AND LOCAL CODES AND ORDINANCES BY A LICENSED CONTRACTOR AND EXPERIENCED WORKMEN. CONTRACTOR TO OBTAIN AND PAY FOR ALL REQUIRED PERMITS.
- CONTRACTOR TO CONFIRM THE LOCATION OF EXISTING UTILITIES PRIOR TO ANY EXCAVATION. CONTRACTOR TO REPAIR ANY DAMAGE CAUSED BY OR DURING THE PERFORMANCE OF HIS WORK AT NO ADDITIONAL COST.
- PARALLEL PIPES MAY BE INSTALLED IN A COMMON TRENCH. PIPES ARE NOT TO BE INSTALLED ONE ABOVE THE OTHER.
- TRENCHES ARE TO BE DEEP ENOUGH TO ALLOW FOR 18" MIN. COVER ON MAIN LINES AND 12" MIN. COVER ON LATERAL LINES. BACKFILL TO BE WATERED IN AND COMPACTED.
- ALL MAIN AND LATERAL LINES SHALL BE SCHEDULE 40 PVC PIPE.
- ALL ELECTRICAL VALVES SHALL BE INSTALLED IN VALVE BOXES WITH LOCKING LIDS.
- DIRECT BURIAL 14 GAGE WIRE WITH SPEARS DRI-SPLICE CONNECTORS (OR EQUAL) SHALL BE USED. 6" SEPARATION BETWEEN MAIN LINE & WIRE EITHER BELOW PIPE OR TO SIDE.
- CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE PROPER COVERAGE OF ALL IRRIGATED AREAS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR GRADING ALL LINES AND SHALL INSTALL MANUAL DRAINS AT ALL VALVE MANIFOLDS AND AT ALL LOW POINTS ON MAIN LINES. MANUAL VALVES SHALL BE INSTALLED IN WELL MARKED VALVE BOXES WITH LOCKING LIDS. KING AUTOMATIC DRAIN VALVES TO BE INSTALLED AT ALL LOW POINTS ON LATERAL LINES. CONTRACTOR TO INSTALL QUICK COUPLER VALVE AT ALL VALVE MANIFOLD LOCATIONS.
- ALL SPRINKLER LINES AND CONTROL WIRES CROSSING UNDER PAVED AREAS SHALL BE INSTALLED IN A SLEEVE TWICE THE SIZE OF THE PIPE.
- FLUSH MAIN LINES PRIOR TO THE INSTALLATION OF REMOTE CONTROL VALVES. FLUSH LATERAL LINES PRIOR TO THE INSTALLATION OF HEADS. MAIN LINES TO BE INSPECTED FOR LEAKS UNDER FULL PRESSURE PRIOR TO BACKFILLING TRENCHES.
- CONTRACTOR TO MAINTAIN A SET OF "AS BUILT" DRAWINGS, A REPRODUCIBLE COPY OF WHICH WILL BE TURNED OVER TO THE OWNER'S REPRESENTATIVE UPON COMPLETION.
- THE OWNER RESERVES THE RIGHT TO REJECT MATERIAL OR WORK WHICH DOES NOT CONFORM TO THESE DRAWINGS. REJECTED WORK SHALL BE REMOVED OR CORRECTED AT CONTRACTOR'S EXPENSE.



6 DRIP DETAIL SCALE: NONE

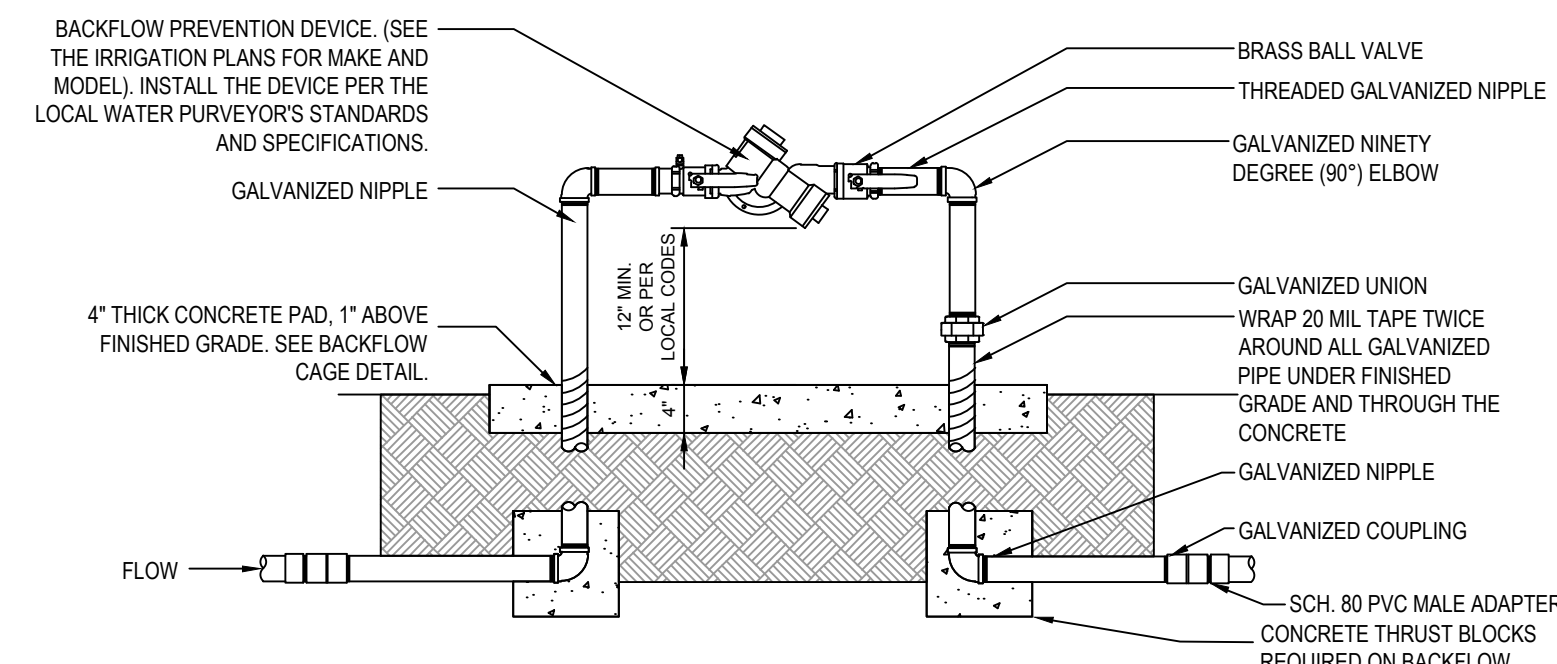


7 TREE PLANTING DETAIL SCALE: NONE



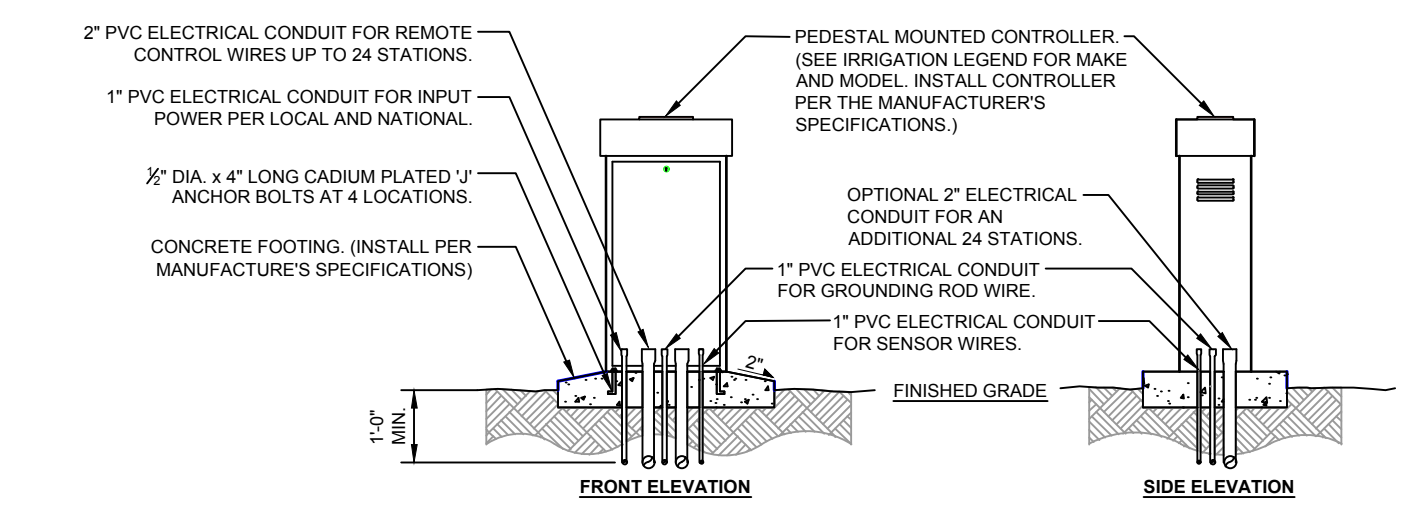
- NOTES:
- SHRUBS SHALL BE OF QUALITY PRESCRIBED IN THE ROOT OBSERVATIONS DETAIL AND SPECIFICATIONS.
 - SEE SPECIFICATIONS FOR FURTHER REQUIREMENTS RELATED TO THIS DETAIL.

8 SHRUB PLANTING DETAIL SCALE: NONE



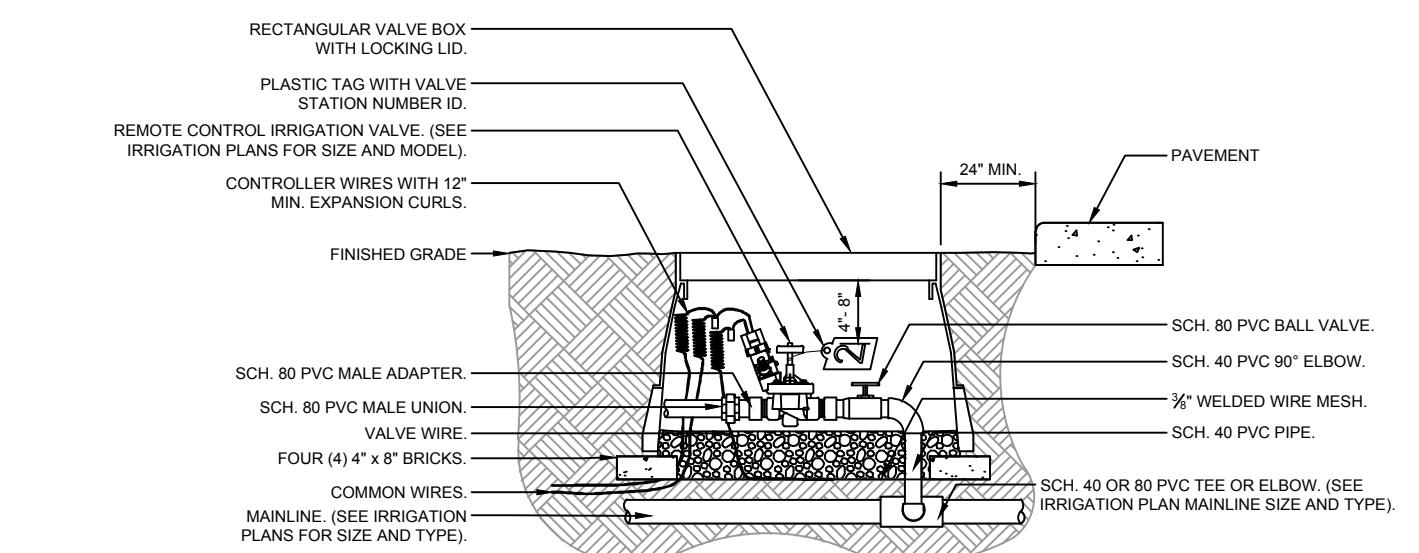
- NOTE:
- ALL ASSEMBLY PARTS (THREADED NIPPLES, FITTINGS, ETC.) SHALL BE GALVANIZED OR BRASS PER LOCAL CODES AND REQUIREMENTS.
 - GALVANIZED NIPPLE SHALL EXTEND 12" PAST THE EDGE OF THE CONCRETE FOOTING.
 - SCH. 80 PVC MALE ADAPTER SHALL BE USED IN CONNECTION FROM GALVANIZED TO THE MAINLINE.
 - BACKFLOW PREVENTION DEVICE SHALL BE LOCATED AS CLOSE AS POSSIBLE TO THE LANDSCAPE METER.
 - BACKFLOW PREVENTION DEVICE SHALL BE LOCATED IN PLANTING AREA UNLESS APPROVED BY OWNER'S REPRESENTATIVE.
 - SEE DETAIL FOR BACKFLOW CAGE INSTALLATION.
 - ALL BACKFLOW PREVENTION DEVICES SHALL HAVE FREEZE BLANKET INCLUDED UPON INSTALLATION.
 - ALL GALVANIZED CONNECTIONS SHALL TO BE MADE USING PIPE THREAD SEALANT. ALL SCH. 80 PVC TO GALVANIZED CONNECTIONS TO BE MADE USING TEFLON TAPE.

1 BACKFLOW PREVENTER SCALE: NONE



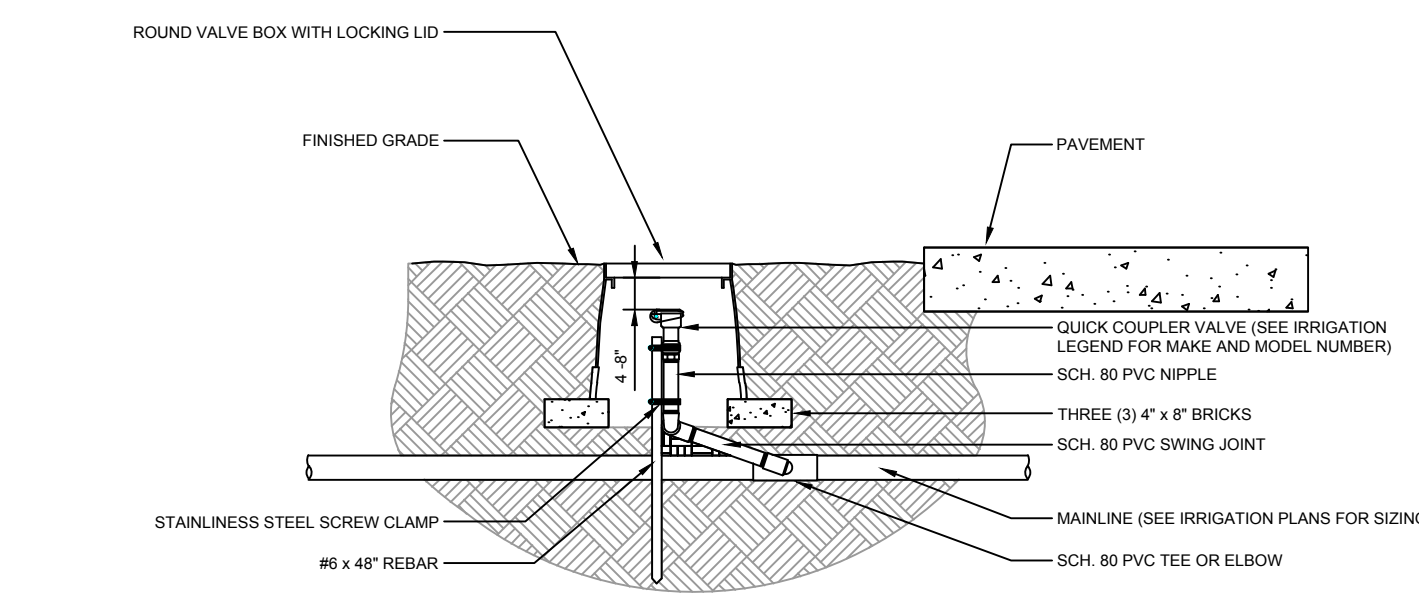
- NOTES:
- COMMON AND CONTROLLER WIRE TO BE BUNDLED USING ELECTRICAL TAPE AT 10'-0" ON CENTER.
 - GROUNDING RODS SHALL BE LOCATED BETWEEN 8'-0" AND 12'-0" AWAY FROM THE CONTROLLER. GROUNDING RODS SHALL BE 3/4" IN DIA. x 8' IN LENGTH. CONNECT THE GROUNDING ROD TO THE CONTROLLER USING 6 GAUGE BARE COPPER WIRE OR PER THE MANUFACTURER'S SPECIFICATIONS.
 - ET STATION TO BE INSTALLED NO FURTHER THAN 8' AWAY FROM THE CONTROLLER AND A MINIMUM OF 18" OFF OF THE GROUND, OUT FROM UNDER ANY OVERHEAD OBSTRUCTIONS SUCH AS, BUT NOT LIMITED TO BUILDING OVERHANDS, TREES, OR UTILITIES.

2 IRRIGATION CONTROLLER SCALE: NONE



- NOTE:
- LOCATE VALVE BOX WITHIN 24" OF PAVEMENT EDGE IN PLANTING AREA WHERE EASILY ACCESSIBLE WHENEVER POSSIBLE.
 - COMMON WIRE AND CONTROLLER WIRE SHALL BE DIRECT BURIAL 14 AWG OR LARGER, COLOR: COMMON (WHITE), CONTROLLER WIRE FOR TURF (BLUE), AND CONTROLLER WIRE FOR SHRUBS (RED). (SEE SPECIFICATIONS FOR 2-WIRE CONTROLLERS).
 - ALL WIRE RUNS SHALL BE CONTINUOUS WITHOUT ANY SPLICES UNLESS APPROVED BY THE OWNER'S REPRESENTATIVE. SEE SPLICE BOX DETAIL. WIRE CONNECTIONS SHALL BE MADE USING DRY-4 CONNECTORS OR APPROVED EQUAL.
 - VALVE BOX SHALL BE WRAPPED WITH MIN. 3 MIL THICK PLASTIC AND SECURE IT USING DUCT TAPE OR ELECTRICAL TAPE.
 - MAINLINES 4" OR LARGER SHALL USE SADDLES AT THE CONNECTIONS POINTS TO THE IRRIGATION VALVE. (SEE SPECIFICATIONS FOR IRRIGATION SADDLES).
 - ALL SCH. 80 PVC TO SCH. 40 PVC THREADED CONNECTIONS SHALL BE MADE USING TEFLON TAPE.
 - VALVE BOXES SHALL BE LOCATED IN PLANTING AREAS.

3 CONTROL VALVE SCALE: NONE



- NOTES:
- ALL THREADED CONNECTIONS SHALL BE INSTALLED USING TEFLON TAPE.
 - VALVE BOX SHALL BE WRAPPED WITH A MINIMUM 3 MIL THICK PLASTIC AND SECURED TO THE VALVE BOX USING DUCT TAPE OR ELECTRICAL TAPE.
 - ALL QUICK COUPLERS SHALL BE INSTALLED A MINIMUM OF 18" OFF OF THE MAINLINE.
 - VALVE BOXES SHALL BE LOCATED IN PLANTING AREAS.

4 QUICK-COUPLING VALVE SCALE: NONE

ENSIGN
THE STANDARD IN ENGINEERING

SALT LAKE CITY
45 W. 10000 S., Suite 500
Sandy, UT 84070
Phone: 801.255.0529

LAYTON
Phone: 801.547.1100

TOOELE
Phone: 435.843.3590

CEDAR CITY
Phone: 435.865.1453

RICHFIELD
Phone: 435.896.2983

WWW.ENSIGNENG.COM

FOR:
HOLIDAY OIL
3115 WEST 2100 SOUTH
WEST VALLEY CITY, UTAH
CONTACT:
SCOTT WAGSTAFF
PHONE: 801-973-7002



HOLIDAY OIL SANTAQUIN
45 SOUTH 300 EAST
SANTAQUIN, UTAH

NO.	DATE	REVISION	BY
1			
2			
3			
4			
5			
6			
7			
8			

LANDSCAPE AND IRRIGATION DETAILS

PROJECT NUMBER: 6458A
PRINT DATE: 10/25/2022
DRAWN BY: MM
CHECKED BY: QRE
PROJECT MANAGER: CGD

L300