

### **General Notes:**

- 1. ALL CONSTRUCTION MUST STRICTLY FOLLOW THE STANDARDS AND SPECIFICATIONS SET FORTH BY: GOVERNING UTILITY MUNICIPALITY, GOVERNING CITY OR COUNTY (IF UN-INCORPORATETED), INDIVIDUAL PRODUCT MANUFACTURERS, AMERICAN PUBLIC WORKS ASSOCIATION (APWA), AND THE DESIGN ENGINEER. THE ORDER LISTED ABOVE IS ARRANGED BY SENIORITY. IF A CONSTRUCTION PRACTICE IS NOT SPECIFIED
- BY ANY OF THE LISTED SOURCES, CONTRACTOR MUST CONTACT DESIGN ENGINEER FOR DIRECTION. 2. CONTRACTOR TO STRICTLY FOLLOW GEOTECHNICAL RECOMMENDATIONS FOR THIS PROJECT. ALL GRADING INCLUDING BUT NOT LIMITED TO CUT, FILL, COMPACTION, ASPHALT SECTION, SUBBASE, TRENCH EXCAVATLON/BACKFILL, SITE GRUBBING, RETAINING WALLS AND FOOTINGS MUST BE COORDINATED DIRECTLY WITH THE PROJECT GEOTECHNICAL ENGINEER.
- 3. TRAFFIC CONTROL, STRIPING &' SIGNAGE TO CONFORM TO CURRENT GOVERNING AGENCIES TRANSPORTATION ENGINEER'S MANUAL AND MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- 4. ANY AREA OUTSIDE THE LIMIT OF WORK THAT IS DISTURBED SHALL BE RESTORED TO ITS ORIGINAL
- CONDITION AT NO COST TO OWNER.
- 5. CONSULT ALL OF THE DRAWINGS AND SPECIFICATIONS FOR COORDINATION REQUIREMENTS BEFORE COMMENCING CONSTRUCTION.
- 6. AT ALL LOCATIONS WHERE EXISTING PAVEMENT ABUTS NEW CONSTRUCTION. THE EDGE OF THE EXISTING PAVEMENT SHALL BE SAWCUT TO A CLEAN. SMOOTH EDGE.
- 7. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE MOST RECENT, ADOPTED
- EDITION OF ADA ACCESSIBILITY GUIDELINES. 8. 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.
- 9. CONTRACTOR IS RESPONSIBLE FOR SCHEDULING AND NOTIFYING ENGINEER OR INSPECTING AUTHORITY 48 HOURS IN ADVANCE OF COVERING UP ANY PHASE OF CONSTRUCTION REQUIRING OBSERVATION. 10. ANY WORK IN THE PUBLIC RIGHT-OF-WAY WILL REQUIRE PERMITS FROM THE APPROPRIATE CITY.
- COUNTY OR STATE AGENCY CONTROLLING THE ROAD, INCLUDING OBTAINING REQUIRED INSPECTIONS.
- 11. ALL DIMENSIONS. GRADES & UTILITY DESIGNS SHOWN ON THE PLANS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION, CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH CONSTRUCTION FOR NECESSARY PLAN OR GRADE CHANGES. 12. CONTRACTOR MUST VERIFY ALL EXISTING CONDITIONS BEFORE BIDDING AND BRING UP ANY QUESTIONS
- BEFOREHAND. 13. SITE GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH BY THE GEOTECHNICAL ENGINEER.
- 14. CATCH SLOPES SHALL BE GRADED AS SPECIFIED ON GRADING PLANS. 15. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FLAGGING, CAUTION SIGNS, LIGHTS, BARRICADES,
- FLAGMEN, AND ALL OTHER DEVICES NECESSARY FOR PUBLIC SAFETY. 16. CONTRACTOR SHALL, AT THE TIME OF BIDDING AND THROUGHOUT THE PERIOD OF THE CONTRACT, BE LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED AND SHALL BE BONDABLE FOR AN AMOUNT EQUAL TO OR GREATER THAN THE AMOUNT BID AND TO DO THE TYPE OF WORK CONTEMPLATED IN THE PLANS AND SPECIFICATIONS. CONTRACTOR SHALL BE SKILLED AND REGULARLY ENGAGED IN THE GENERAL CLASS AND TYPE OF WORK CALLED FOR IN THE PLANS AND SPECIFICATIONS.
- 17. CONTRACTOR SHALL INSPECT THE SITE OF THE WORK PRIOR TO BIDDING TO SATISFY HIMSELF BY PERSONAL EXAMINATION OR BY SUCH OTHER MEANS AS HE MAY PREFER OF THE LOCATIONS OF THE PROPOSED WORK AND OF THE ACTUAL CONDITIONS OF AND AT THE SITE OF WORK. IF. DURING THE COURSE OF HIS EXAMINATION. A BIDDER FINDS FACTS OR CONDITIONS WHICH APPEAR TO HIM TO BE IN CONFLICT WITH THE LETTER OR SPIRIT OF THE PROJECT PLANS AND SPECIFICATIONS. HE SHALL CONTACT THE ENGINEER FOR ADDITIONAL INFORMATION AND EXPLANATION BEFORE SUBMITTING HIS BID. SUBMISSION OF A BID BY THE CONTRACTOR SHALL CONSTITUTE ACKNOWLEDGMENT THAT, IF AWARDED THE CONTRACT, HE HAS RELIED AND IS RELYING ON HIS OWN EXAMINATION OF (1) THE SITE OF THE WORK, (2) ACCESS TO THE SITE, AND (3) ALL OTHER DATA AND MATTERS REQUISITE TO THE FULFILLMENT OF THE WORK AND ON HIS OWN KNOWLEDGE OF EXISTING FACILITIES ON AND IN THE VICINITY OF THE SITE OF THE WORK TO BE CONSTRUCTED UNDER THIS CONTRACT. THE INFORMATION PROVIDED BY THE ENGINEER IS NOT INTENDED TO BE A SUBSTITUTE FOR, OR A SUPPLEMENT TO, THE INDEPENDENT VERIFICATION BY THE CONTRACTOR TO THE EXTENT SUCH INDEPENDENT INVESTIGATION OF SITE CONDITIONS IS DEEMED NECESSARY OR DESIRABLE BY THE CONTRACTOR. CONTRACTOR SHALL ACKNOWLEDGE THAT HE HAS NOT RELIED SOLELY UPON OWNER- OR ENGINEER-FURNISHED INFORMATION REGARDING SITE CONDITIONS IN PREPARING AND SUBMITTING HIS BID.
- 18. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL WATER, POWER, SANITARY FACILITIES AND TELEPHONE SERVICES AS REQUIRED FOR THE CONTRACTOR'S USE DURING CONSTRUCTION.
- 19. CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE OWNER, ENGINEER, AND/OR GOVERNING AGENCIES. 20. CONTRACTOR SHALL EXERCISE DUE CAUTION AND SHALL CAREFULLY PRESERVE BENCH MARKS, CONTROL
- POINTS, REFERENCE POINTS AND ALL SURVEY STAKES, AND SHALL BEAR ALL EXPENSES FOR REPLACEMENT AND/OR ERRORS CAUSED BY THEIR UNNECESSARY LOSS OR DISTURBANCE. 21. CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOBSITE CONDITIONS DURING
- THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
- 22. 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 TESTING AND INSPECTION SHALL BE PAID FOR BY THE OWNER; ALL RE-TESTING AND/OR RE-INSPECTION SHALL BE PAID FOR BY THE CONTRACTOR.
- 23. 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.
- 24. 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.
- 25. CONTRACTOR SHALL MAINTAIN A NEATLY MARKED SET OF FULL-SIZE AS-BUILT RECORD DRAWINGS SHOWING THE FINAL LOCATION AND LAYOUT OF ALL STRUCTURES AND OTHER FACILITIES. AS-BUILT 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 AS-BUILT RECORD DRAWINGS SHOWING THE INFORMATION REQUIRED ABOVE. AS-BUILT RECORD DRAWINGS SHALL BE REVIEWED AND THE COMPLETE AS-BUILT 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.
- 26. 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 HIGHEST QUALITY ARE TO BE USED.
- 27. CONTRACTOR SHALL BE SKILLED AND REGULARLY ENGAGED IN THE GENERAL CLASS AND TYPE OF WORK CALLED FOR IN THE PROJECT PLANS AND SPECIFICATIONS. THEREFORE, THE OWNER IS RELYING UPON THE EXPERIENCE AND EXPERTISE OF THE CONTRACTOR. PRICES PROVIDED WITHIN THE CONTRACT DOCUMENTS SHALL INCLUDE ALL LABOR AND MATERIALS NECESSARY AND PROPER FOR THE WORK CONTEMPLATED AND THAT THE WORK BE COMPLETED IN ACCORDANCE WITH THE TRUE INTENT AND PURPOSE OF THESE PLANS AND SPECIFICATIONS. THE CONTRACTOR SHALL BE COMPETENT, KNOWLEDGEABLE AND HAVE SPECIAL SKILLS IN THE NATURE, EXTENT AND INHERENT CONDITIONS OF THE WORK TO BE PERFORMED. CONTRACTOR SHALL ALSO ACKNOWLEDGE THAT THERE ARE CERTAIN PECULIAR AND INHERENT CONDITIONS EXISTENT IN THE CONSTRUCTION OF THE PARTICULAR FACILITIES WHICH MAY CREATE. DURING THE CONSTRUCTION PROGRAM, UNUSUAL OR UNSAFE CONDITIONS HAZARDOUS TO PERSONS, PROPERTY AND THE ENVIRONMENT. CONTRACTOR SHALL BE AWARE OF SUCH PECULIAR RISKS AND HAVE THE SKILL AND EXPERIENCE TO FORESEE AND TO ADOPT PROTECTIVE MEASURES TO ADEQUATELY AND SAFELY PERFORM THE CONSTRUCTION WORK WITH RESPECT TO SUCH HAZARDS.
- 28. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL STRIPING AND/OR PAVEMENT MARKINGS NECESSARY TO TIE EXISTING STRIPING INTO FUTURE STRIPING. METHOD OF REMOVAL SHALL BE BY GRINDING OR SANDBLASTING
- 29. CONTRACTOR SHALL PROVIDE ALL SHORING, BRACING, SLOPING OR OTHER PROVISIONS NECESSARY TO PROTECT WORKMEN FOR ALL AREAS TO BE EXCAVATED TO A DEPTH OF 4 FEET OR MORE. FOR EXCAVATIONS 4 FEET OR MORE IN DEPTH, THE CONTRACTOR SHALL COMPLY WITH LOCAL, STATE AND NATIONAL SAFETY CODES, ORDINANCES. OR REQUIREMENTS FOR EXCAVATION AND TRENCHES.
- 30. ALL EXISTING GATES AND FENCES TO REMAIN UNLESS OTHERWISE NOTED ON PLANS. PROTECT ALL GATES AND FENCES FROM DAMAGE

## **Utility Notes:**

- INTERNET.

- THE REQUIRED PROCEDURES.

- GRATES TO ALLOW ACCESS.
- CONDITIONS.

- AND STREET PAVING.

# **Erosion Control General Notes:**

THE CONTRACTOR TO USE BEST MANAGEMENT PRACTICES FOR PROVIDING EROSION CONTROL FOR CONSTRUCTION OF THIS PROJECT. ALL MATERIAL AND WORKMANSHIP SHALL CONFORM TO GOVERNING AGENCIES ORDINANCES AND ALL WORK SHALL BE SUBJECT TO INSPECTION BY THE COUNTIES. ALSO, INSPECTORS WILL HAVE THE RIGHT TO CHANGE THE FACILITIES AS NEEDED.

CONTRACTOR SHALL KEEP THE SITE WATERED TO CONTROL DUST. CONTRACTOR TO LOCATE A NEARBY HYDRANT FOR USE AND TO INSTALL TEMPORARY METER. CONSTRUCTION WATER COST TO BE INCLUDED IN BID.

TO THE CONTOURS.

ACCOMMODATE PROJECT PLANNING.

ALL ACCESS TO PROPERTY WILL BE FROM PUBLIC RIGHT-OF-WAYS. THE CONTRACTOR IS REQUIRED BY STATE AND FEDERAL REGULATIONS TO PREPARE A STORM WATER POLLUTION PREVENTION PLAN AND FILE A "NOTICE OF INTENT" WITH THE GOVERNING AGENCIES.

# Maintenance:

THE CONTRACTOR'S RESPONSIBILITY SHALL INCLUDE MAKING BI-WEEKLY CHECKS ON ALL EROSION CONTROL MEASURES TO DETERMINE IF REPAIR OR SEDIMENT REMOVAL IS NECESSARY. CHECKS SHALL BE DOCUMENTED AND COPIES OF THE INSPECTIONS KEPT ON SITE.

SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH RAINFALL. THEY MUST BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY ONE-HALF THE HEIGHT OF BARRIER.

SEDIMENT TRACKED ONTO PAVED ROADS MUST BE CLEANED UP AS SOON AS PRACTICAL, BUT IN NO CASE LATER THAN THE END OF THE NORMAL WORK DAY. THE CLEAN UP WILL INCLUDE SWEEPING OF THE TRACKED MATERIAL, PICKING IT UP, AND DEPOSITING IT TO A CONTAINED AREA.

EXPOSED SLOPES:

ANY EXPOSED SLOPE THAT WILL REMAIN UNTOUCHED FOR LONGER THAN 14 DAYS MUST BE STABILIZED BY ONE OR MORE OF THE FOLLOWING METHODS: A) SPRAYING DISTURBED AREAS WITH A TACKIFIER VIA HYDROSEED B) TRACKING STRAW PERPENDICULAR TO SLOPES C) INSTALLING A LIGHT-WEIGHT, TEMPORARY EROSION CONTROL BLANKET

### Notice to Contractor

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

THE CONTRACTOR AGREES THAT THEY SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. 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 ENGINEERS HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT.

1. CONTRACTOR SHALL COORDINATE LOCATION OF NEW "DRY UTILITIES" WITH THE APPROPRIATE UTILITY COMPANY. INCLUDING BUT NOT LIMITED TO: TELEPHONE SERVICE, GAS SERVICE, CABLE, POWER,

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2. EXISTING UTILITIES HAVE BEEN SHOWN ON THE PLANS USING A COMBINATION OF ON-SITE SURVEYS (BY OTHERS). 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 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. 3. CONTRACTOR SHALL POT HOLE ALL UTILITIES TO DETERMINE IF CONFLICTS EXIST PRIOR TO BEGINNING ANY EXCAVATION. NOTIFY ENGINEER OF ANY CONFLICTS. CONTRACTOR SHALL VERIFY LOCATION AND INVERTS OF EXISTING UTILITIES TO WHICH NEW UTILITIES WILL BE CONNECTED. PRIOR TO COMMENCING ANY EXCAVATION WORK THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES IN ACCORDANCE WITH

4. 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 HIS EXPENSE.

5. ALL VALVES AND MANHOLE COVERS SHALL BE RAISED OR LOWERED TO MEET FINISHED GRADE. CONTRACTOR SHALL CUT PIPES OFF FLUSH WITH THE INSIDE WALL OF THE BOX OR MANHOLE. 7. CONTRACTOR SHALL GROUT AT CONNECTION OF PIPE TO BOX WITH NON-SHRINKING GROUT, INCLUDING PIPE VOIDS LEFT BY CUTTING PROCESS, TO A SMOOTH FINISH.

8. CONTRACTOR SHALL GROUT WITH NON-SHRINK GROUT BETWEEN GRADE RINGS AND BETWEEN BOTTOM OF INLET LID FRAME AND TOP OF CONCRETE BOX 9. SILT AND DEBRIS IS 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.

10. CONTRACTOR SHALL CLEAN ASPHALT, TAR OR OTHER ADHESIVES OFF OF ALL MANHOLE LIDS AND INLET 11. 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 DE-WATERED

12. 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. 13. MAINTAIN A MINIMUM 18" VERTICAL SEPARATION DISTANCE BETWEEN ALL UTILITY CROSSINGS. 14. CONTRACTOR SHALL START INSTALLATION AT LOW POINT OF ALL NEW GRAVITY UTILITY LINES.

15. ALL BOLTED FITTINGS MUST BE GREASED AND WRAPPED.

16. UNLESS SPECIFICALLY NOTED OTHERWISE, MAINTAIN AT LEAST 2 FEET OF COVER OVER ALL STORM DRAIN LINES AT ALL TIMES (INCLUDING DURING CONSTRUCTION).

17. ALL WATER LINES SHALL BE INSTALLED A MINIMUM OF 48" BELOW FINISHED GRADE. 18. ALL SEWER LINES AND SEWER SERVICES SHALL HAVE A MINIMUM SEPARATION OF 10 FEET, PIPE EDGE TO PIPE EDGE, FROM THE WATER LINES. IF A 10 FOOT SEPARATION CAN NOT BE MAINTAINED. THE SEWER LINE AND WATER LINE SHALL BE LAID IN SEPARATE TRENCHES AND THE BOTTOM OF THE WATER LINE SHALL BE AT LEAST 18" ABOVE THE TOP OF THE SEWER LINE.

19. CONTRACTOR SHALL INSTALL THRUST BLOCKING AT ALL WATERLINE ANGLE POINTS AND TEES. 20. ALL UNDERGROUND UTILITIES SHALL BE IN PLACE PRIOR TO INSTALLATION OF CURB, GUTTER, SIDEWALK

21. CONTRACTOR SHALL INSTALL MAGNETIC LOCATING TAPE CONTINUOUSLY OVER ALL NONMETALLIC PIPE.

WHEN GRADING OPERATIONS ARE COMPLETED AND THE DISTURBED GROUND IS LEFT OPEN FOR 14 DAYS OR MORE, THE AREA SHALL BE FURROWED PARALLEL

THE CONTRACTOR SHALL MODIFY EROSION CONTROL MEASURES TO

ALL BEST MANAGEMENT PRACTICES (BMP'S) SHOWN ON THIS PLAN MUST BE MAINTAINED AT ALL TIMES UNTIL PROJECT CLOSE-OUT.

### **Survey Control Note:**

THE CONTRACTOR OR SURVEYOR SHALL BE RESPONSIBLE FOR FOLLOWING THE NATIONAL SOCIETY OF PROFESSIONAL SURVEYORS (NSPS) MODEL STANDARDS FOR ANY SURVEYING OR CONSTRUCTION LAYOUT TO BE COMPLETED USING REEVE & ASSOCIATES, INC. SURVEY DATA OR CONSTRUCTION IMPROVEMENT PLANS. PRIOR TO PROCEEDING WITH CONSTRUCTION STAKING, THE SURVEYOR SHALL BE RESPONSIBLE FOR VERIFYING HORIZONTAL CONTROL FROM THE SURVEY MONUMENTS AND FOR VERIFYING ANY ADDITIONAL CONTROL POINTS SHOWN ON AN ALTA SURVEY, IMPROVEMENT PLAN, OR ANY ELECTRONIC DATA PROVIDED. THE SURVEYOR SHALL ALSO USE THE BENCHMARKS AS SHOWN ON THE PLAN, AND VERIFY THEM AGAINST NO LESS THAN FIVE (5) EXISTING HARD IMPROVEMENT ELEVATIONS INCLUDED ON THESE PLANS OR ON ELECTRONIC DATA PROVIDED. IF ANY DISCREPANCIES ARE ENCOUNTERED. THE SURVEYOR SHALL IMMEDIATELY NOTIFY REEVE & ASSOCIATES, INC. AND RESOLVE THE DISCREPANCIES BEFORE PROCEEDING WITH ANY CONSTRUCTION STAKING.

W	- = proposed culinary water line	FC	= FENCE CORNER
— —EX.W — — -	- = EXISTING CULINARY WATER LINE	FF	= FINISH FLOOR
SS	- = PROPOSED SANITARY SEWER LINE	FFE	= FINISH FLOOR ELEVATION
— —EX.SS — —	- = EXISTING SANITARY SEWER LINE	FG	= FINISHED GRADE
SD	- = Proposed storm drain line	FH	= FIRE HYDRANT
— —EX.SD — —	- = EXISTING STORM DRAIN LINE	FL	= FLOW LINE
——————————————————————————————————————	×= FENCE LINE	GB	= GRADE BREAK
¥	= PROPOSED FIRE HYDRANT	INV	= INVERT
Ø	= EXISTING FIRE HYDRANT	L.F.	= LINEAR FEET
۲	= PROPOSED MANHOLE	NG	= NATURAL GRADE
0	= EXISTING MANHOLE	PP	= POWER/UTILITY POLE
•	= PROPOSED SEWER CLEAN-OUT	PTFB	= POWER TRANSFORMER BOX
X	= PROPOSED GATE VALVE	P.U.E.	= PUBLIC UTILITY EASEMENT
X	= EXISTING GATE VALVE	RCP	= REINFORCED CONCRETE PIPE
G	= PROPOSED WATER METER	RIM	= RIM OF MANHOLE
œ	= EXISTING WATER METER	R.O.W.	= RIGHT-OF-WAY
-	= PROPOSED CATCH BASIN	SD	= STORM DRAIN
	= EXISTING CATCH BASIN	SS	= SANITARY SEWER
₹	= PLUG W/ 2* BLOW-OFF	TBC	= TOP BACK OF CURB
-J	= PLUG & BLOCK	TOA	= TOP OF ASPHALT
$\mathbf{\bullet}$	= STREET LIGHT	TOC	= TOP OF CONCRETE
	= SIGN	TOFF	= TOP OF FINISHED FLOOR
BLDG	= Building	ΤΟΙ	= TOP OF PUMP ISLAND
C&G	= CURB & GUTTER	TSW	= TOP OF SIDEWALK
СВ	= CATCH BASIN	W	= CULINARY WATER
C.F.	= CUBIC FEET	WM	= WATER METER
C.F.S.	= CUBIC FEET PER SECOND	· · · · · · · · · · · · · · · · · · ·	= EXISTING ASPHALT PAVEMENT
			= Proposed Asphalt Pavement
			= proposed concrete



Mountable Curb & Gutter SCALE: NONE



WHEN THE SUBGRADE C.B.R. IS LESS THAN 10 OR WHEN A GREATER DEPTH IS NECESSARY TO PROVIDE SUFFICIENT STABILITY. DEVELOPER MAY SUBMIT AN ALTERNATIVE PAVEMENT DESIGN BASED ON A SOILS ANALYSIS FOR APPROVAL BY THE COUNTY ENGINEER. COMPACTION TESTS ON BOTH SUB-BASE AND BASE COURSES WILL BE REQUIRED.

THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF REEVE & ASSOCIATES, INC., 5160 SOUTH 1500 WEST, RIVERDALE, UTAH 84405, AND SHALL NOT BE PHOTOCOPIED, RE-DRAWN, OR USED ON ANY PROJECT OTHER THAN THE PROJECT OTHER THAN THE PROJECT OTHER THAN THE PROJECT OTHER AND SHALL NOT BE PHOTOCOPIED, RE-DRAWN, OR USED ON ANY PROJECT OTHER THAN THE PROJECT OTHER WRITTEN PERMISSION. THE OWNERS AND SHALL NOT BE PHOTOCOPIED, RE-DRAWN, OR USED ON ANY PROJECT OTHER THAN THE PROJECT OTHER THAN TH 🗖 Reeve & Associates, Inc. - Solutions You Can Build On 🗖

## Leaend

### Flood Information Data

FLOOD ZONE DESIGNATION "X" PER F.E.M.A. FLOOD INSURANCE RATE MAPS, COMMUNITY PANEL NUMBERS 49057C0443F DATED JUNE 02, 2015.

CHARGE DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.

(THE ABOVE STATEMENT IS FOR INFORMATION ONLY AND THE SURVEYOR ASSUMES NO LIABILITY FOR THE CORRECTNESS OF THE CITED MAP OR THE LOCATION OF THE FLOOD ZONE BOUNDARY. IN ADDITION, THE ABOVE STATEMENT DOES NOT REPRESENT THE SURVEYOR'S OPINION OF THE PROBABILITY OF FLOODING.)

\*VERIFY LOCATION WITH PHONE, GAS AND POWER COMPANIES.

GEOTECHNICAL REPORT TO GOVERN

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Sheet	Project In Engineer: <u>THOMAS J.</u> Drafter: <u>C. KIN</u> Begin Date: <u>DECEMB</u> Name: <u>UINTA</u> EST	Statession THOMAS 57477E	Uintah View Estates ocden city, weber county, utah	REVISIONS DATE DESCRIPTION 02-18-19 CK City Comments	Reeve
8	fo.         HUNT, P.E.         GSLEY         ER 2018         H VIEW         ATES         7075-01	AL ENGINES 54968 J. HUNT OF UTAIL	Notes/Legend/ Street Cross-Section		C ASSOCIATOS, INC. 5160 SOUTH 1500 WEST, RIVERDALE, UTAH 84405 TEL: (801) 621-3100 FAX: (801) 621-2666 WWW.IFEVEVE-USSOC.COM LAND PLANNERS * CML ENCINERS * LAND SURFORS TRAFFIC ENGINEERS * STRUCTURAL ENGINEERS * LANDSCAFF ARCHITECTS

Sheets









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Use either APWA specifications or Weber County specifications.

ADA truncated domes "gray"

# **Construction Notes:** 1 ALL CONSTRUCTION IS TO CONFORM TO THE STANDARD DRAWINGS AND SPECIFICATIONS OF OGDEN CITY.

② CONSTRUCT HANDICAP RAMP PER ADA AND CITY REQUIREMENTS.

### CULINARY WATER

W/8 - 8" PVC C-900 DR14 WATER W LAT - 1" K-TYPE COPPER, 1" METER SANITARY SEWER

SS/8 - 8" PVC SDR-35 SEWER LINE SS LAT - 4" PVC ASTM D-3034 SDR35

STORM DRAIN SD/15 - 15" RCP STORM DRAIN

SECONDARY WATER

SW/8 – 8" SCH40 PVC PER ASTM D-2241 SECONDARY WATER LINE SW LAT – 3/4" SCH40 PVC

# **TBC Curve Data**

Radius	Length	Tangent	Chord	CH Length
20.00'	31.40'	19.98'	N80°16'43"E	28.27'
67.50 <b>'</b>	102.96'	53.17 <b>'</b>	S52°54'59"W	4819.87'
42.50 <b>'</b>	110.93'	156.15'	N61°21'10"E	82.02'
42.50'	50.79'	28.92'	N78°06'22"W	47.82'
32.50'	74.82'	38.44'	S51°29'00"W	4819.33'
20.00'	31.40'	19.98'	S9°40'00"E	28.27'

	Reeve	C ASSOCIATES, INC. 5160 SOUTH 1500 WEST, RIVERDALE, UTAH 84405 TEL: (801) 621–3100 FAX: (801) 621–2666 www.regve-gssoc.com Land Planners * CIVL ENGINEERS * LAND SUFFYORS TRAFFIC ENGINEERS * STRUCTURAL ENGINEERS * LANDSCAPE ARCHITECT		
	REVISIONS DATE DESCRIPTION 02-18-19 CK City Comments			
Recve & Associates, Inc Solutions You Can Build On	Uintah View Estates	Street A 4+50.00 - 8+50.00		
	10854988 THOMAS J. HUNT			
	Project Int Engineer: THOMAS J. Drafter: C. KING Begin Date: DECEMBI Name: UINTAF	IO. HUNT, P.E. GSLEY ER 2018 H VIEW ATES		
	Number: Sheet <b>3</b>	<u>7075–01</u> <b>8</b> Sheets		



STAGE STORAGE TABLE						
ELEV	AREA (sq. ft.)	DEPTH (ft)	AVG END INC. VOL. (cu. ft.)	AVG END TOTAL VOL. (cu. ft.)	CONIC INC. VOL. (cu. ft.)	CONIC TOTAL VOL. (cu. ft.)
4,814.940	0.60	N/A	N/A	0.00	N/A	0.00
4,815.000	30.04	0.060	0.92	0.92	0.70	0.70
4,816.000	3,676.12	1.000	1853.08	1854.00	1346.16	1346.85
4,817.000	4,626.43	1.000	4151.27	6005.27	4142.18	5489.03
4,817.680	4,775.97	0.680	3196.82	9202.09	3196.68	8685.71
4,818.000	5,299.75	0.320	1612.12	10814.20	1611.39	10297.10



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![](_page_4_Figure_0.jpeg)

![](_page_5_Figure_0.jpeg)

# **Notes:**

1.	Describe all BMP's to protect storm water inlets: All storm water inlets to be protected by straw wattle barriers, or gravel bags (see detail).	
2.	Describe BMP's to eliminate/reduce contamination of storm water from:	
	<ol> <li>Equipment / building / concrete wash areas: To be performed in designated areas only and surrounded with silt fence barriers.</li> </ol>	
	If any contaminated by soil amenaments: If any contaminates are found or generated, contact environmental engineer and contacts listed.	
	If any contaminates are found or generated, contact environmental engineer and contacts listed. Le Fueling area:	
	To be performed in designated areas only and surrounded with silt fence. 2. Vehicle maintenance areas:	
	To be performed in designated areas only and surrounded with silt fence. •. Vehicle parking areas:	
	To be performed in designated areas only and surrounded with silt fence. g. Equipment storage areas:	
	To be performed in designated areas only and surrounded with silt fence. Materials storage areas: To be performed in designated areas only and surrounded with silt fence.	
	. Waste containment areas: To be performed in designated areas only and surrounded with silt fence.	
	. Service areas: To be performed in designated areas only and surrounded with silt fence.	
3.	BMP's for wind erosion:	
4	Stockpiles and site as needed to be watered regularly to eliminate / control wind erosion	
	<ul> <li>Maintenance</li> <li>Maintain all construction equipment to prevent oil or other fluid leaks.</li> <li>Keep vehicles and equipment clean, prevent excessive build—up of oil and grease.</li> <li>Regularly inspect on—site vehicles and equipment for leaks, and repair immediately.</li> <li>Check incoming vehicles and equipment (including delivery trucks, and employee and subcontractor v for leaking oil and fluids. Do not allow leaking vehicles or equipment on—site.</li> <li>Segregate and recycle wastes, such as greases, used oil or oil filters, antifreeze, cleaning solutions, automotive batteries, hydraulic, and transmission fluids.</li> </ul>	ehicles)
	<ul> <li>Fueling         <ul> <li>If fueling must occur on—site, use designated areas away from drainage.</li> <li>Locate on—site fuel storage tanks within a bermed area designed to hold the tank volume.</li> <li>Cover retention area with an impervious material and install in in a manner to ensure that any spil contained in the retention area. To catch spills or leaks when removing or changing fluids.</li> </ul> </li> </ul>	s will be
	<ul> <li>Use drip pans for any oil or fluid changes.</li> <li>Washing</li> <li>Use as little water as possible to avoid installing erosion and sediment controls for the wash area.</li> <li>If washing must occur on-site, use designated, bermed wash areas to prevent waste water discharce</li> </ul>	e into
	storm water, creeks, rivers, and other water bodies. — Use phosphate—free, biodegradable soaps. — Do not permit steam cleaning on—site.	
5.	Spill Prevention and Control 1. Minor Spills: Minor spills are these which are likely to be controlled by on-site personnel. After contacting local one	raopov
	response agencies, the following actions should occur upon discovery of a minor spill: — Contain the spread of the spill.	gency
	<ul> <li>If the spill occurs on paved or impermeable surfaces, clean up using "dry" methods (i.e. absorbent materials, cat litter, and / or rags).</li> </ul>	
	- If the spill occurs in dirt areas, immediately contain the spill by constructing an earth dike. Dig up dispose of contaminated soil.	and properly
	<ul> <li>If the spill occurs during rain, cover the impacted area to avoid runoff.</li> <li>Record all steps taken to report and contain spill.</li> </ul>	
	Major Spills: On—site personnel should not attempt to control major spills until the appropriate and qualified emergence response staff have arrived at the site. For spills of federal reportable quantities, also notify the Nationa Response Center at (800) 424—8802. A written report should be sent to all notified authorities. Failure major spills can result in significant fines and penalties.	y to report
6.	Post Roadway / Utility Construction	
	a. Maintain good housekeeping practices. D. Enclose or cover building material storage areas.	
	<ul> <li>Properly store materials such as paints and solvents.</li> <li>Store dry and wet materials under cover, away from drainage areas.</li> </ul>	
	<ul> <li>Avoid mixing excess amounts of fresh concrete of cement on-site.</li> <li>Perform washout of concrete trucks offsite or in designated areas only.</li> <li>Do not wash out concrete trucks into storm drains open ditches streets or streams</li> </ul>	
	<ul> <li>Do not place material or debris into streams, gutters or catch basins that stop or reduce the flow of re water.</li> </ul>	Inoff
	. All public streets and storm drain facilities shall be maintained free of building materials, mud and debri caused by grading or construction operations. Roads will be swept within 1000' of construction entrance	3 daily, if
	necessary. . Install straw wattle around all inlets contained within the development and all others that receive runoff t	rom the
7	development.	
/.	a. The contractor will designate an emergency contact that can be reached 24 hours a day 7 days a week b. A stand—by crew for emergency work shall be available at all times during potential rain or snow runoff	events.
	Necessary materials shall be available on site and stockpiled at convenient locations to facilitate rapid co emergency devices when rain or runoff is eminent.	nstruction of
	engineer of record. If devices are removed, no work may continue that have the potential of erosion with the engineer of record. If deemed necessary erosion control should be reestablished before this work by	thout consulting
	<ol> <li>Graded areas adjacent to fill slopes located at the site perimeter must drain away from the top of the conclusion of each working day. this should be confirmed by survey or other means acceptable to the</li> </ol>	slope at the engineer of
	record. All silt and debris shall be removed from all devices within 24 hours after each rain or runoff event.	
	Except as otherwise approved by the inspector, all removable protective devices shown shall be in place each working day and through weekends until removal of the system is approved. All loose soil and debris, which may create a potential bazard to officite property, shall be removed from	ut the site as
	directed by the engineer of record of the governing agency. The placement of additional devices to reduce erosion damage within the site is left to the discretion of	the engineer of
	record. . Desilting basins may not be removed or made inoperable without the approval of the engineer of record	and the
	governing agency. . Erosion control devices will be modified as need as the project progresses and plans of these changes approval by the engineer of record and the governing agency.	ubmitted for
8.	Conduct a minimum of one inspection of the erosion and sediment controls every two weeks. Maintain docum	entation on site.
	<ul> <li>Part II.D.4 of general permit of (3000000 identifies the minimum inspection requirements).</li> <li>Part II.D.4.C identifies the minimum inspection report requirements.</li> <li>Failure to complete and/or document storm water inspections is a violation of part III.D.4 of Utah Gener 300000.</li> </ul>	ıl Permit UTR
	50'x20' CONSTRUCTION ENTRANCE	~~~~~
	W/8" CLEAN 2"-4" Ø GRAVEL BASE	
	OVER WOVEN GEOTECH FABRIC	
	Cross Section 50' x 20' Construction Entranc	e

![](_page_6_Picture_3.jpeg)

![](_page_6_Figure_4.jpeg)

TABLE 1: Recommended Maximum Slope Lengths for Silt Fence				
(Richardson & Middlebrooks, 1991)				
Slope Steepness (%)	Max. Slope Length m (ft)			
<2%	30.5m (100ft)			
2-5%	22.9m (75ft)			
5-10%	15.2m (50ft)			
10-20%	7.6m (25ft)			
>20%	4.5m (15ft)			

- rotate each post until the geotextile is wrapped completely around the post, then
- fence in the upstream trench and backfill with natural soil, tamping the backfill to provide good compaction and anchorage. Figure 2 illustrates a typical silt fence

- ing projections, against the downstream wall of the trench. Maximum post spacing should be 2.4-3.0m (8-10ft). Post spacing

![](_page_6_Figure_16.jpeg)

rainfall, immediately after significant rainfall

![](_page_6_Picture_27.jpeg)

![](_page_6_Figure_31.jpeg)

![](_page_7_Figure_0.jpeg)

![](_page_7_Figure_1.jpeg)

![](_page_7_Figure_9.jpeg)

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### NOTES:

- COMPACT BACKFILL AND BASE COURSE PER APWA SECTION 31 23 26 TO A DENSITY OF 95 PERCENT OR GREATER. MAXIMUM LIFT THICKNESS BEFORE COMPACTION IS 8" WHEN USING RIDING AND 6" WHEN USING
- HAND COMPACTION EQUIPMENT. 1.1. BACKFILL: PROVIDE AND PLACE PER APWA SECTION 31 23 23 ON ALL SIDES OF THE BASIN. 1.2. PROVIDE UNTREATED BASE COURSE MATERIAL PER APWA SECTION 32 11 23. PLACE MATERIAL PER APWA SECTION 31 23 23.
- . REINFORCEMENT SHALL BE PER ASTM A 615, GRADE 60, DEFORMED STEEL. REFER TO APWA 03 20 00.
- CONCRETE SHALL BE PER CLASS 4000 PER APWA SECTION 03 30 04. PLACE CONCRETE PER APWA SECTION 03 30 10. CURE PER APWA SECTION 03 39 00.
- STATIONING AND ELEVATIONS SHOWN ON THE DRAWING SHOULD MATCH THE CENTERLINE OF THE
- MANHOLE. 4.1. FLIN: (FLOW LINE IN) ELEVATION APPLIES TO THE POINT OF INTERSECTION OF THE INLET PIPE INVERT AND THE MANHOLE WALL. 4.2. FLOUT: (FLOW LINE OUT) ELEVATION APPLIES TO THE PONT OF INTERSECTION OF THE OUTLET PIPE INVERT AND THE MANHOLE WALL.
- 5. LOW PROFILE MANHOLE LIDS WILL NOT BE ALLOWED IN ANY OGDEN CITY RIGHT OF WAY.
- LADDER RUNGS ARE REQUIRED IN ALL BOXES. SEE SS-6 FOR TYPICAL MANHOLE STEP REQUIREMENTS.
- GROUT ALL PIPE OPENINGS WITH 2:1 SAND/CEMENT MORTAR.
- PLACE FLEXIBLE GASKET-TYPE SEALANT IN ALL MANHOLE JOINTS. SEAL MUST MEET THE REQUIREMENTS OF SS-S-00210 (210A), AASHTO M-198, AND ASTM C990.
- . PRECAST CONCRETE WALLS MUST BE A MINIMUM OF 5" THICK.
- A. CAST-IN-PLACE CONCRETE MUST BE A MINIMUM OF 8" THICK.
- 10. IF DEPTH OF MANHOLE EXCEEDS 6'-7", USE SS-1 AS THE STANDARD FOR CONSTRUCTION.
- 11. THE INSTALLED PIPE SHALL BE PLACED SUCH THAT THE HORIZONTAL INSIDE DIAMETER OF THE PIPE
- INTERSECTS THE INSIDE FACE OF THE RISER.
- 12. PROVIDE A SMOOTH AND NEAT FINISH ON THE INTERIOR OF THE CONES, SHAFT, RINGS, AND FLOOR. IMPERFECT MOLDINGS OR HONEYCOMBS WILL NOT BE ACCEPTED.

0
Still Untamed

### GDEN CITY ENGINEERING - STANDARD DRAWINGS STORM DRAIN MANHOLE (PRECAST)

JUSTIN ANDERSON, CITY ENGINEER

SD-4 SHEET 2 OF 2

### Use Weber County or APWA Specifications.

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Project Info. Engineer: THOMAS J. HUNT, P.E. Drafter: C. KINGSLEY Begin Date: DECEMBER 2018 Name: UINTAH VIEW ESTATES			
EST/	ATES		