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PROVEMENTS ECOACH ESTATES R COUNTY, UTAH	Prepared By: Summers Engineering Collective - Jen Summers - Summers.eng.collective@gmail.com	
AILS: STA 100+20 M DRAIN VAULT	# Date: Revision:	ł
Sheet 20.0		

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PROVEMENTS COACH ESTATES R COUNTY, UTAH	Prepared By: Summers Engineering Collective - Jen Summers - Summers.eng.collective@gmail.com	
ILS: STA 103+50 M DRAIN VAULT	# Date: Revision:	ł
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ILS: STA 113+17 M DRAIN VAULT	# Date: Revision:	
Sheet 20.2		

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PROVEMENTS COACH ESTATES R COUNTY, UTAH	Pr Su	epared B I mmer Summ	y: s Engineering Collective - Jen Summers - ers.eng.collective@gmail.com	
A'S 106+57, 108+30 & ORM DRAIN VAULT	#	Date:	Revision:	
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All utility trenching within road right-of-ways which are 66' wide or wider shall have backfill material per geotechnical report.

Safe bearing loads				
Soil type	Safe bearing load			
Sand	1000			
Sand & gravel	1500			
Sand & gravel cemented with clay	2000			
Shale	5000			
Thrust block area against Thrust on / Saf	e bearing			
trench wall (square feet) = fitting l	oad of soil			

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SANITARY SEWER TRENCH NOTES: 1. The Contractor shall be responsible for meeting all current OSHA and UOSH requirements for trench safety.	CULIN 1. Water smaller s
2. Contractor shall locate all underground utilities before laying pipe within 200' of said utilities which may be exposed, damaged or crossed as shown on the drawings or as "blue staked" the Contractor will make arrangements with the utility company to move the utility if necessary or obtain permission from the project engineer to modify grade of pipeline in order to go around utilities.	 All wa Valves Ductile
3. The Contractor shall determine the actual location of existing service connections and utilities and take the necessary steps to avoid them. The Contractor is responsible for any damage occurring during construction.	5. Whene connection
4. Testing: All new sanitary sewers to be cleaned, "videotaped", and necessary repairs made before acceptance. All lines shall be pressure tested to 3.5 psi min. for 5 minutes. A mandrel or ball can be used to verify deformation of a pipe as determined from the videotape unless specified otherwise.	6. Contra shutting 7. Pipe ze
5. All measurements are in English units.	8. Concre
6. All sewer lines to be installed in roadway.	0 11 . 6
7. All sewer lines to be installed at a minimum 10' distance from any water lines.	9. The to a. b.
8. All sewer lines to be installed with a minimum of 4' cover to the top of the pipe.	с. (
STORM DRAIN TRENCH NOTES: 1. The Contractor shall be responsible for meeting all current OSHA and UOSH requirements for trench safety.	a. 10. All m fittings us
2. Contractor shall locate all underground utilities before laying pipe within 50' of said utilities which may be exposed, damaged or crossed as shown on the drawings or as "blue staked" the contractor will make arrangements with the utility company to move the utility if necessary or obtain permission from the Project Engineer to modify grade of pipeline in	11. All se

3. Testing: All new storm drain systems to be cleaned, "videotaped", and necessary repairs made before acceptance. All lines shall be pressure tested to 3.5 psi (min.) for 5 minutes. A mandrel or ball can be used to verify deformation of a pipe as determined from the videotape.

4. All storm drain lines to be installed in roadway or under curb and gutter with approval by Weber County engineer.

5. Minimum pipe size for storm drain pipe is 15" diameter and must be concrete.

SPECIAL UTILITY NOTE: ALL PIPES (CULINARY WATER, SECONDARY WATER, SANITARY SEWER, LAND DRAIN AND STORM DRAIN) MUST BE WRAPPED IN MIRAFI FABIC AND MUST HAVE ALL SIDES 6" THICK OF 1" WASHED GRAVEL

order to go around utilities.

The Geotechnical Report provided by: CMT Engineering Laboratories (Project No. 10878, Dated March 7, 2018) has critical information in regards to this project and must be followed.



INARY WATER TRENCH NOTES:

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aterlines 12 inches and larger shall be ductile iron Class-51. Waterlines 10-inches and ler shall be PVC C-900 DR-18 or ductile iron Class-51.

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l waterlines shall be 8" minimum.

lves larger than 12 inches shall be butterfly valves with boxes.

actile iron pipe and fittings shall be wrapped with polyethylene and have cathodic ection where required.

henever possible "hot tap" connections required. Hot tap valve to be supported durin ection. Contractor to notify City 24 hours in advance of making connection.

ntractor shall contact property owners 24 hours in advance with written notice for ing off water.

be zone shall be backfilled with sand or material as approved by Weber County

ncrete collars shall be placed around all valves.

e following tests must be passed before the waterline is connected for service: a. Pressure Test - Must keep a minimum of 200 PSI for 2 hours b. Chlorination Test - Must keep a minimum of 30 PPM for 24 hours.

c. Clear Water Test

d. Bacteria Test - A minimum of 2 tests are required.

All mechanical joint restraint (e.g. megalug) connections, flange fittings and all other gs using connection bolts must be furnished and installed with bluebolts.

ll sewer lines to be installed with a minimum of 4' cover to the top of the pipe.

Approved for Construction

Weber County Engineer Date: _____

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LS: TRENCHING			
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