

Tech Contractors
ENGINEERING

June 18, 2018

Nina Ruiz,
El Paso County
Planning and Community Development Department,
2880 International Circle, Suite 110
Colorado Springs, CO 80910

Re: WindingWalk PUD, PCD# PUDSP-18-002
The Enclaves at Stonebridge PUD, PCD# PUDSF-18-003
WindingWalk Filings 1, PCD# SF-18-002

Dear Ms. Ruiz

This letter responds to the May 14, 2018 review letter from the Colorado Geologic Survey relating to the above referenced projects.

Below are brief summaries addressing the key points of concern from the Colorado Geologic Survey:

Uncontrolled Fill

- Compaction reports from CTL Thompson for the areas in question have been provided to Entech Engineering for their records
- Utility trenches will be properly compacted, monitored and compacted to at least 95% Maximum Modified Proctor Dry Density (ASTM D 1557)

Collapsible Soil

- Utility trenches will be properly compacted, monitored and compacted to at least 95% Maximum Modified Proctor Dry Density (ASTM D 1557)
- Each home site will have a soils report prepared for foundation design. Should collapsible soils be encountered proper mitigation including overexcavation and recompaction as outlined in the report will be required.

Expansive Soil

- Should highly expansive soils be encountered during pavement preparation after utility installation; proper mitigation measures as outlined per the El Paso County Pavement Design Criteria will be followed. Generally, these measures include soil moisture conditioning.

11886 Stapleton Dr.
Falcon CO. 80831
719.495.7444

Billing Address
P. O. Box 80036
San Diego, CA 92138

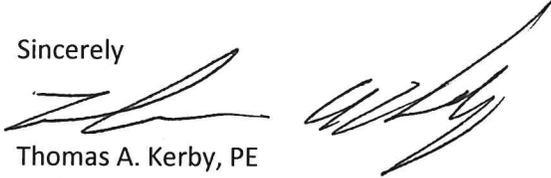
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Shallow Groundwater

- The Meridian Ranch project has an extensive underdrain system capable to mitigate any shallow groundwater encountered. The underdrain system is included in the street and utility improvement plans and will be installed with the sanitary sewer. Cleanouts are placed at every sanitary sewer manhole for proper maintenance. A structure is provided at the outfall of each underdrain system to promote infiltration of the groundwater per Upper Black Squirrel Groundwater District and State of Colorado Groundwater Commission requirements. See the attached excerpted sheets from the approved construction drawings.

Please call me should you have any further questions or concerns.

Sincerely



Thomas A. Kerby, PE
Tech Contractors



**TWO WORKING DAYS
BEFORE YOU DIG
CALL 811**

OR
UTILITY NOTIFICATION CENTER OF COLORADO
1-800-922-1987
(SEE COVER FOR LIST OF UTILITY CONTACTS)

NOTE:
CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES.
EX. UTILITIES SEE CONSTRUCTION DRAWINGS FOR:
1)STONEBRIDGE FILING 1 AT MERIDIAN RANCH
2)STONEBRIDGE FILING 3 AT MERIDIAN RANCH
3)LONDONDERRY DRIVE/LAMBERT ROAD CONSTRUCTION DRAWINGS
4)STAPLETON DRIVE CONSTRUCTION DRAWINGS
5)GUTHRIE RAW WATER EXTENSION THE VISTAS FILING 1 OFFSITE
6)VISTAS FILING 1 AT MERIDIAN RANCH

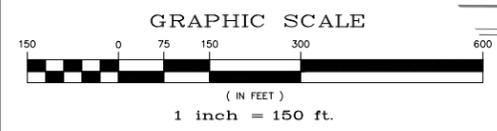
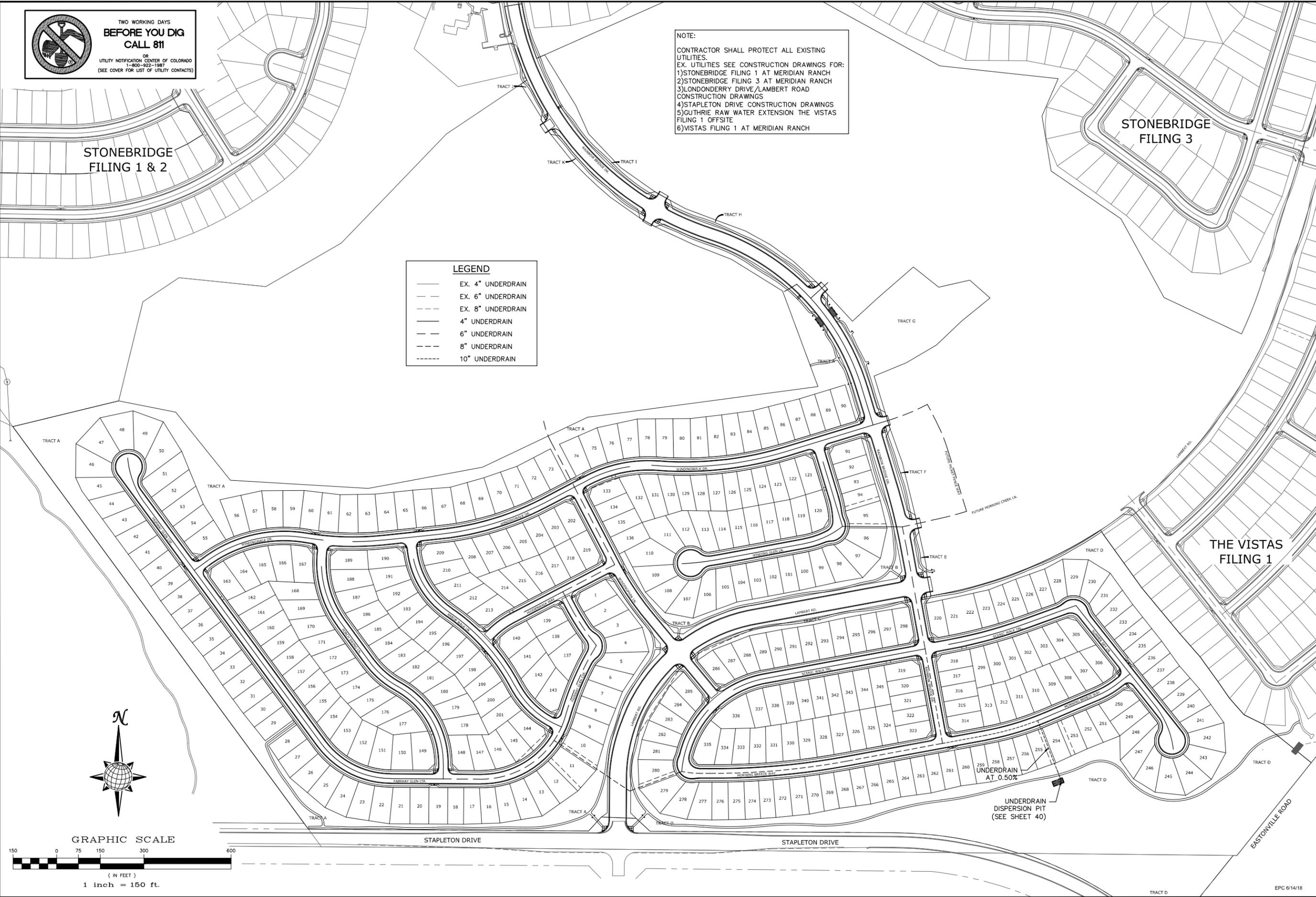
LEGEND

---	EX. 4" UNDERDRAIN
---	EX. 6" UNDERDRAIN
---	EX. 8" UNDERDRAIN
---	4" UNDERDRAIN
---	6" UNDERDRAIN
---	8" UNDERDRAIN
---	10" UNDERDRAIN

STONEBRIDGE FILING 1 & 2

STONEBRIDGE FILING 3

THE VISTAS FILING 1

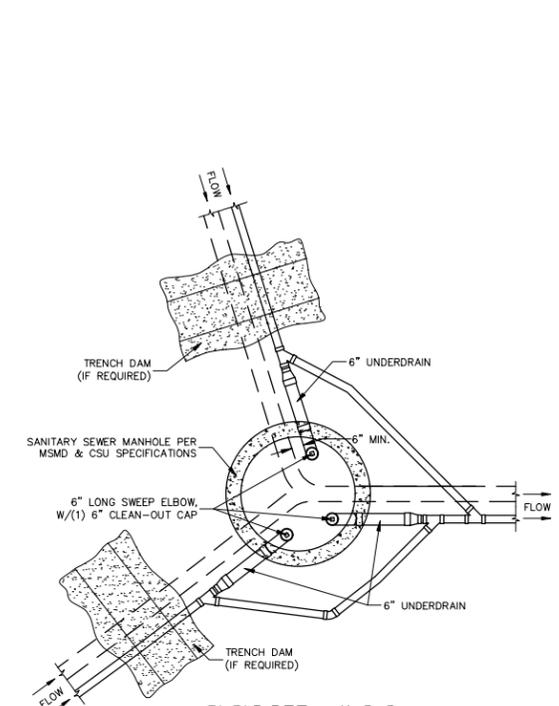


<p>TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457</p>	No.	Revisions	Date	Instr.	Appr.	Date
	<p>MERIDIAN RANCH</p>					
<p>WINDINGWALK FI AT MERIDIAN RANCH STREET AND UTILITY PLANS OVERALL UNDERDRAIN</p>						
Drawn by	LOG	Checked by	TAK	Date	MAY 2008	
Scale	AS SHOWN		38 of 55			
<p>PROFESSIONAL ENGINEER 31429 EPC 6/14/18</p>						
<p>PCD PROJECT NO. SF-18-002</p>						

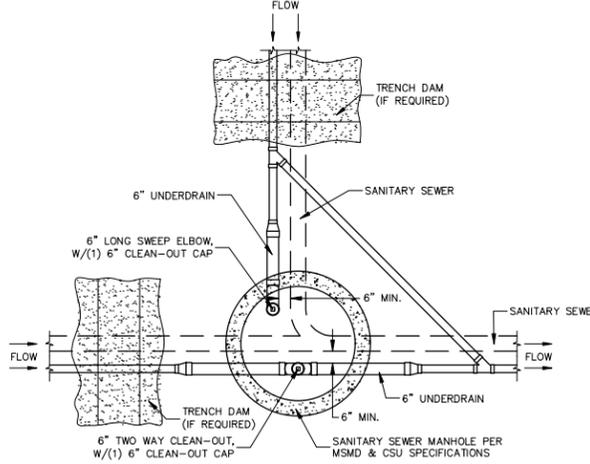


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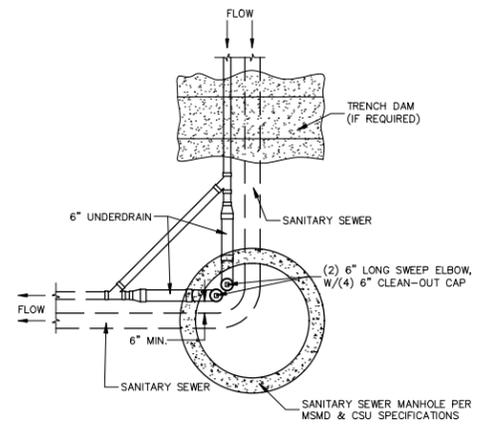


SSMH #33

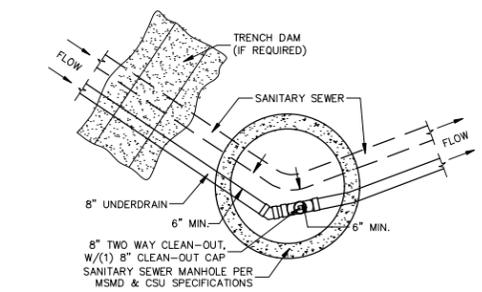


SSMH #39

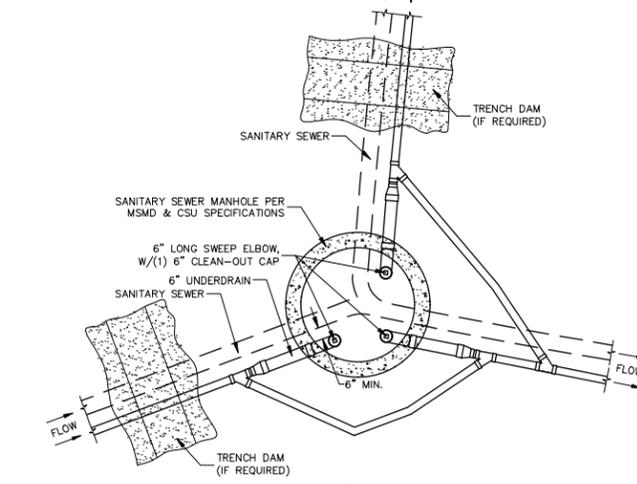
CLEAN-OUT DETAILS
SCALE : N.T.S.



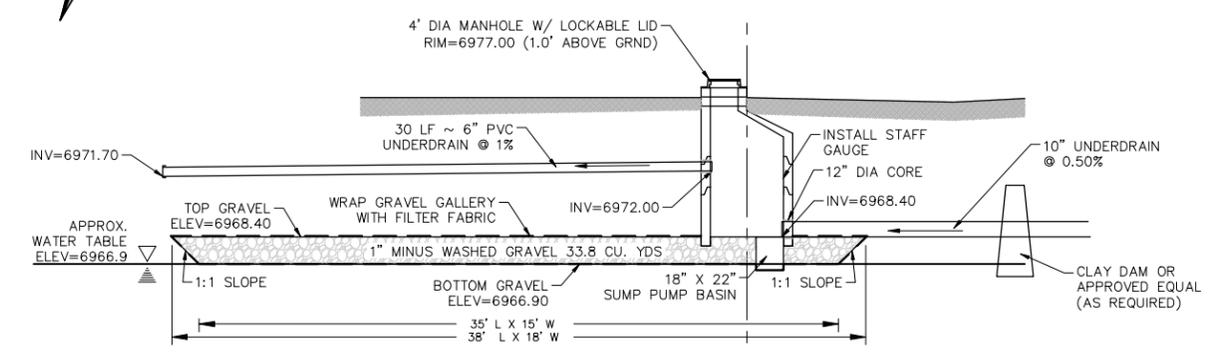
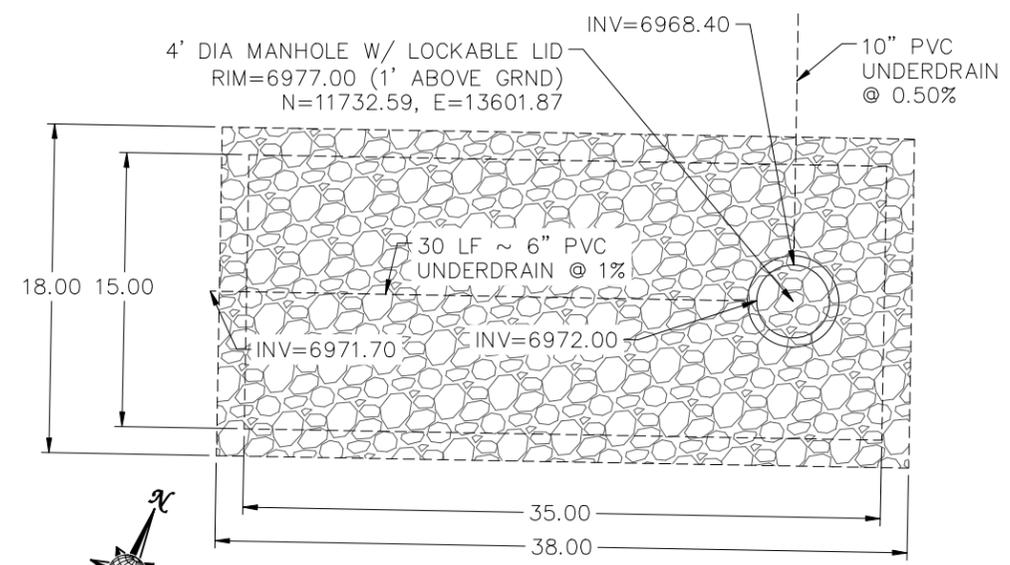
**SSMH #22, #25,
#37, #44, #47**



SSMH #8



SSMH #7



DISPERSION PIT DETAIL
AREA 8, TOTAL OF 500-600 RESIDENTIAL HOMES
SCALE : N.T.S.

UNDERDRAIN DISPERSION PIT NOTES/SPECIFICATIONS

1. UNDERDRAIN SHALL BE PVC SCHEDULE 35, PASSIVE AND DAYLIGHT AS SHOWN.
2. TRACER WIRE TO BE PLACED WITH SUBDRAIN INSTALLATION. USE 14 GA. UF.
3. GROUT ALL PIPE PENETRATIONS
4. INSTALL A CLAY DAM UPSTREAM OF THE DISPERSION PIT AS DIRECTED BY THE SOILS ENGINEER.
5. GRAVEL SHALL BE 1" MINUS WASHED GRAVEL WRAPPED ON ALL SIDES WITH MIRAFI N-SERIES NONWOVEN FILTER FABRIC OR APPROVED EQUAL.
6. IF GROUNDWATER IS ENCOUNTERED IN DISPERSION PIT STOP INSTALLATION AND CONTACT DISTRICT ENGINEER FOR POSSIBLE ALTERNATE DESIGN.
7. INSTALL 10' STAFF GAUGE INSIDE MANHOLE, WITH ZERO AT TOP OF GRAVEL. STAFF GAUGE 'C', USA BLUEBOOK NOS. 27607, 27608, & 27609, OR APPROVED EQUAL. ATTACH TO SIDE OF MANHOLE PER MANUFACTURER'S SPECIFICATIONS.

EPC 6/14/18

TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457		MERIDIAN RANCH	
WINDING WALK FI AT MERIDIAN RANCH		STREET AND UTILITY PLANS	
UNDERDRAIN DETAILS		UNDERDRAIN DETAILS	
Drawn by LOG	Checked by TAK	Date MAY 2018	
Scale AS SHOWN	40 of 55		