

#### VICINITY MAP (NO SCALE)

### BASIS OF BEARINGS:

DIRECTIONS ARE BASED ON THE BEARING N 89°43' E BETWEEN RECOVERED REBAR MONUMENTS AT THE NW AND NE CORNERS OF THE TRACT SHOWN AND DESCRIBED HEREIN. SAID MONUMENTS ARE AS SHOWN AND DESCRIBED HEREIN.

**OWNER:** 

KENT TOWNSEND 7625 U.S. HIGHWAY 50 SALIDA, CO 81201 PHONE: 719-530-1088

SURVEYOR: HENDERSON LAND SURVEYING PO BOX 812 SALIDA, CO 81201 PH: (719) 539-6166 CONTACT: MIKE HENDERSON

#### **GRADING NOTES:**

- 1. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO COMMENCING THE PROPOSED WORK, AND SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS.
- 2. STORMWATER BMPS MUST BE IN PLACE PRIOR TO GROUND DISTURBING ACTIVITIES.
- 3. FILL AREAS SHALL BE FILLED IN LAYERS NOT EXCEEDING 6" (COMPACTED DEPTH) AND EACH LAYER COMPACTED TO THE FOLLOWING MINIMUM DENSITIES PER ASTM D-1557 (MODIFIED PROCTOR):
  - A. PAVED & BUILDING AREAS 95%
  - OPEN SPACE OR LANDSCAPED AREAS 80%
- 4. PRIOR TO GRADING, ON-SITE TOPSOIL SHALL BE STRIPPED AND STOCKPILED FOR USE DURING FINAL GRADING. CONTRACTOR SHALL PROTECT TOPSOIL STOCKPILE FROM EROSION AND/OR OFFSITE MIGRATION UNTIL FINAL PLACEMENT.
- 5. PRIOR TO PLACEMENT OR ASPHALT, CONCRETE, OR BASE COURSE MATERIAL THE SUBGRADE SHALL BE PREPARED BY REMOVING ALL TOPSOIL, ORGANICS, AND OTHER DELETERIOUS MATERIAL, AND COMPACTING PER NOTE 3.
- 6. EXCESS, ORGANICS, AND/OR DELETERIOUS MATERIAL UNEARTHED DURING CLEARING & GRUBBING SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND MUST BE DISPOSED OF PROPERLY.
- 7. EXISTING PAVEMENTS, DRIVEWAYS, AND SIDEWALKS DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO PRE-CONSTRUCTION CONDITIONS.
- 8. CONDITION OF THE ROAD AND/OR RIGHT-OF-WAY UPON COMPLETION OF JOB SHALL BE AS GOOD AS OR BETTER THAN PRIOR TO STARTING WORK.
- 9. ADEQUATE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION AND ANY DRAINAGE DITCH OR STRUCTURE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO SATISFACTION OF THE OWNING AUTHORITY
- 10. CONTRACTOR TO TAKE NECESSARY PRECAUTIONS TO PROTECT ROOT SYSTEMS OF SHRUBS, PLANTS AND TREES ALONG AREAS OF EXCAVATION.
- 11. THE CONTRACTOR PROTECT ALL EXISTING WATER, WASTEWATER, STORM SEWER, UTILITIES, AND OTHER INFRASTRUCTURE DURING CONSTRUCTION. DAMAGES OCCURRING DURING CONSTRUCTION SHALL BE REPAIRED, AND/OR REPLACED AT THE CONTRACTOR'S EXPENSE.

		INEERING PLANS	
	SHEET NO.	DESCRIPTION	
	1.	CIVIL COVER SHEET	
	2.	SITE PLAN	
	3.	GRADING PLAN	
	4.	UTILITY PLAN	
	5.	LANDSCAPE PLAN	
	6.	EROSION CONTROL	
	7.	GRADING DETAILS	
BEFORE YOU DIG, CALL: 811	8.	WATER DETAILS	
IT'S THE LAW ! CALL AT LEAST TWO WORKING DAYS PRIOR	9.	WATER DETAILS	
TO EXCAVATING	10.	SEWER DETAILS	
GALEX	11.	STORM DETAILS	
UTILITY NOTIFICATION CENTER	12.	STORM DETAILS	
OF COLORADO	13.	STORM DETAILS	
FOR WATER EMERGENCIES, WATER LEAKS, OR DAMAGED PIPELINES, THE CONTRACTOR SHALL CALL:	14.	STORM DETAILS	
SALIDA PUBLIC WORKS – (719) 539–6257	15.	STORM DETAILS	
RIVATE ENGINEER'S NOTES TO CONTRACTOR	PRFPARFI	) FOR:	PRF
EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES, CONDUITS OR		KENT TOWNSEND	



# 505 OAK STREET P.U.D. C / / V /

### **GENERAL NOTES:**

- CONTRACTOR'S EXPENSE.
- BEARING AS THE DESIGN.

- A. OSHA REGULATIONS

  - D. CLEAN WATER ACT.
- THE WARRANTY PERIOD.
- COMPLETION.

- ACCESS OF SERVICES.

- START OF CONSTRUCTION.
- WORK.

- SWEEPING OF THE JOB SITE.

# ENGINEERING $|\mathcal{P}|_{L}$

SALIDA, CO **AUGUST, 2022** 

1. ANY CHANGES FROM THE PLAN, STANDARD NOTES, STANDARD DESIGNS, OR SPECIFICATIONS SHALL BE CONSIDERED NON-CONFORMING UNLESS APPROVED IN WRITING BY THE ENGINEER OF RECORD. INSTALLATIONS NOT CONFORMING TO THE ABOVE SHALL BE REMOVED AND REPLACED AND/OR CORRECTED AT THE

2. THE CONTRACTOR SHALL PROVIDE SUBMITTALS FOR ALL MATERIALS A MINIMUM OF WEEK PRIOR TO START OF CONSTRUCTION FOR REVIEW AND APPROVAL BY THE ENGINEER. ANY MATERIALS NOT RECEIVING APPROVAL PRIOR TO INSTALLATION MAY BE DISALLOWED FOR PAYMENT AND/OR BE REQUIRED TO BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.

3. THE CONTRACTOR SHALL PROVIDE CONSTRUCTION STAKING FOR ALL ALIGNMENTS AND GRADES BY A LICENSED SURVEYOR. CONSTRUCTION SURVEYING AND FIELD STAKES SHALL UTILIZE THE SAME HORIZONTAL AND VERTICAL DATUM AND BASIS OF

4. ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE RESTORED TO ORIGINAL CONDITION. CONTRACTOR IS RESPONSIBLE FOR DOCUMENTING EXISTING CONDITIONS WITH DIGITAL PICTURES, TO BE STORED IN THE PROJECT ELECTRONIC FILES.

5. THE CONTRACTOR SHALL LOCATE ALL UTILITIES AND MONUMENTS OF EVERY NATURE, WHETHER SHOWN HEREON OR NOT. AND PROTECT THEM FROM DAMAGE. ALL UTILITIES AND MONUMENTS SHOULD BE FLAGGED PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BEAR THE TOTAL EXPENSE OF REPAIR OR REPLACEMENT OF UTILITIES AND MONUMENTS DAMAGED OR DESTROYED.

6. ANY MONUMENTS DISTURBED DURING CONSTRUCTION MUST BE RESET BY A LICENSED SURVEYOR. NOTE THAT RESETTING OF SURVEY MONUMENTS BY ANYONE OTHER THAN A LICENSED SURVEYOR IS A CRIME.

7. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS INCLUDING BUT NOT LIMITED TO:

B. NPDES STORMWATER REGULATIONS

C. LOCAL, STATE, AND FEDERAL PERMITS

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS NECESSARY FOR COMPLETION OF THE WORK, UNLESS SPECIFICALLY NOTED OTHERWISE.

8. THE CONTRACTOR SHALL WARRANTY ALL WORK FOR A PERIOD OF TWO YEARS COMMENCING FROM THE TIME OF FINAL ACCEPTANCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR AND REPLACEMENT OF ALL FAILURES DETERMINED BY THE ENGINEER TO BE CAUSED BY DEFECTS IN MATERIAL OR WORKMANSHIP DURING

9. THE CONTRACTOR SHALL MAINTAIN A SET OF PLANS ON THE JOB SITE AT ALL TIMES AND PROVIDE SUBCONTRACTORS WITH A SET OF PLANS. THE CONTRACTOR SHALL MAINTAIN A RED-LINED SET OF PLANS, INDICATING ALL CONSTRUCTION CHANGES AND KEEP IT UP TO DATE AT ALL TIMES INCOMPLETE REDLINES SHALL BE SUFFICIENT CAUSE FOR REJECTION OF PAYMENT APPLICATIONS. A COMPLETED RED LINE SET SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO SUBSTANTIAL

10. ALL CONSTRUCTION SHALL COMPLY WITH THE CONSTRUCTION CONTRACT. THESE PLANS AND THE APPROVAL AGENCY CONSTRUCTION STANDARDS AND SPECIFICATIONS IN FORCE AT THE TIME OF THE BID AWARD. IN CASE OF CONFLICT THE FIRST LISTED IN THE ORDER ABOVE SHALL RULE.

11. CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING WITH THE TESTING AGENCIES AND PROJECT ENGINEER TO ENSURE THAT ALL REQUIRED TESTING IS COMPLETED PRIOR TO PROCEEDING WITH THE WORK. RETESTING REQUIRED DUE TO FAILED MATERIAL TESTS AND/OR REQUESTS FOR TESTING OUTSIDE OF NORMAL BUSINESS HOURS SHALL BE AT THE CONTRACTOR'S EXPENSE.

12. CONTRACTOR SHALL PROVIDE BUSINESSES AND PRIVATE RESIDENCES NOTICE A MINIMUM OF 48 HOURS PRIOR TO COMMENCING WORK THAT WILL IMPACT ACCESS OR SERVICES TO THEIR PROPERTIES.

13. CONTRACTOR SHALL PROVIDE THE APPLICABLE PUBLIC WORKS DEPARTMENT NOTICE A MINIMUM OF 7 DAYS PRIOR TO COMMENCING WORK THAT WILL IMPACT PUBLIC

14. THE CONTRACTOR SHALL AT ALL TIMES MAINTAIN PROPER BARRICADING, DUST CONTROL, TRAFFIC CONTROL, SHORING AND SAFETY MEASURES OF EVERY NATURE. ALL EXCAVATIONS LEFT OPEN OVERNIGHT MUST BE BARRICADED TO PREVENT VEHICULAR AND PEDESTRIAN ACCESS.

15. THE CONTRACTOR SHALL OBTAIN WRITTEN AGREEMENT TO UTILIZE OFF-SITE PROPERTIES FOR STAGING OR STORAGE OF MATERIALS. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO MINIMIZE ANY NUISANCE CONDITIONS ARISING FROM THEIR STAGING AND MATERIAL STORAGE AREAS.

16. THE CONTRACTOR SHALL COORDINATE WITH THE APPLICABLE PUBLIC WORKS DEPARTMENT TO ARRANGE FOR ANY CONSTRUCTION WATER NEEDED PRIOR TO THE

17. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN FOR APPROVAL BY THE GOVERNING ENTITY, WHICH MUST BE APPROVED PRIOR TO COMMENCING WITH THE

18. CONTRACTOR SHALL KEEP WEIGHT TICKETS, BATCH TICKET, INVOICES, ETC. FOR ALL MATERIAL INCORPORATED INTO THE PROJECT. COPIES MUST BE SUBMITTED TO THE ENGINEER PRIOR TO PAYMENT FOR ITEMS.

19. THE CONTRACTOR SHALL SCHEDULE THE WORK TO MINIMIZE THE DISTURBANCE OF MAIL DELIVERY TO ALL AFFECTED ADDRESS. WHEN NECESSARY, CONTRACTOR SHALL NOTIFY EXISTING RESIDENCES OF IMPENDING DISTURBANCE A MINIMUM OF ONE WEEK PRIOR TO REMOVING/OBSTRUCTING MAILBOXES.

20. THE CONTRACTOR IS RESPONSIBLE FOR REPLACING OR REPAIRING ANY DAMAGE TO PRIVATE PROPERTY IMPROVEMENTS AND FOR FINAL CLEAN UP AND STREET

WATER NOTES:

1. THE FOLLOWING SUBMITTALS ARE REQUIRED AND MUST BE RECEIVED AND APPROVED BY THE PROJECT ENGINEER PRIOR TO COMMENCEMENT OF THE WORK: A. MANUFACTURER'S DOCUMENTATION FOR ALL FITTINGS, VALVES, FIRE HYDRANTS, PIPE MATERIAL

AND OTHER APPURTENANCES. B. GRADATION AND PROCTORS FOR BEDDING AND STRUCTURAL FILL MATERIAL. 2. WATER MAIN SIZE AND TYPE SHALL BE AS SHOWN ON THE PLAN AND COMPLY WITH THE FOLLOWING

STANDARD SPECIFICATIONS: A. DUCTILE IRON PIPE (DIP) AWWA C150 CLASS 50

B. POLYVINYL CHLORIDE (PVC) AWWA C900 DR18

3. WATER SERVICE LINES SHALL BE DR9 CROSSLINKED HIGH DENSITY POLYETHYLENE (PEX) CONFORMING WITH AWWA C904, OR APPROVED EQUAL.

4. DUCTILE IRON PIPE SHALL HAVE A CEMENT MORTAR LINING CONFORMING WITH AWWA C104. 5. ALL FITTINGS SHALL BE DUCTILE IRON CONFORMING TO AWWA C110 AND C111, OR AWWA C153, AND

- SHALL BE CEMENT MORTAR LINED CONFORMING TO AWWA C104.
- 6. VALVES SHALL BE RESILIENT SEATED GATE WITH CAST OR DUCTILE IRON BODIES, MANUFACTURED IN ACCORDANCE WITH AWWA C509. ALL VALVES SHALL BE EPOXY COATED INTERNALLY AND EXTERNALLY. 7. ALL MATERIALS STORED ON-SITE SHALL BE PROTECTED FROM CONTAMINATION AND STORED PER THE MANUFACTURERS RECOMMENDATIONS.
- 8. ALL WATER MAINS SHALL BE CONSTRUCTED WITH A MINIMUM COVER OF 5 FEET BELOW FINISHED GRADE. IF MAINTAINING MINIMUM COVER IS IMPRACTICAL; THE PROJECT ENGINEER, AT THEIR SOLE DISCRETION, MAY ALLOW REDUCED COVER WITH POLYSTYRENE INSULATION PLACED OVER THE WATER MAIN

9. STRUCTURAL FILL, AS SHOWN IN THE TYPICAL TRENCH SECTION, SHALL MEET CDOT CLASS 1 SPECIFICATIONS.

10. PIPE BEDDING, AS DEFINED IN THE TYPICAL TRENCH SECTION, SHALL MEET CDOT CLASS 6 SPECIFICATIONS. 11. FIRE HYDRANTS SHALL BE WATEROUS PACER W-67 WITH STORZ ADAPTER, SET TO FACE THE STREET

AND/OR FIRE ACCESS. FIRE HYDRANT SUPPLY LINES SHALL BE A MINIMUM OF 6" DIAMETER. 12. CORPORATION STOPS SHALL BE FORD AWWA/CC TAPER THREAD WITH PACK JOINT ADAPTERS, SIZED

PER PLAN, AND TAPPED UTILIZING THE FOLLOWING METHODS: A. DUCTILE IRON PIPE - DIRECT TAP INTO THE MAIN.

B. PVC PIPE - TAPPING SADDLES WITH AWWA/CC TAPER THREAD TO MATCH CORPORATION STOP.

12. CURB STOPS SHALL BE FORD BALL VALVES WITH PACK JOINT ADAPTERS, SIZED PER PLAN.

13. CURB BOXES SHALL BE TYLER DOMESTIC HD OR APPROVED EQUAL.

14. VALVE BOXES LOCATED IN AREAS SUBJECT TO VEHICULAR TRAFFIC SHALL BE H-20 RATED AND BE SURROUNDED BY A CONCRETE COLLAR.

15. TEMPORARY SERVICES SHALL BE PROVIDED WHENEVER SERVICE OUTAGES EXCEED 4 HOURS. ALL MATERIALS AND LABOR REQUIRED TO PROVIDE TEMPORARY SERVICE SHALL BE CONSIDERED INCIDENTAL TO THE WORK AND SHALL NOT BE PAID FOR SEPARATELY.

16. NEW METER PITS SHALL BE "THERMA-COIL" (OR APPROVED EQUAL) PLACED WITH 5 FEET OF COVER UNLESS NOTED OTHERWISE.

17. METER PITS LOCATED IN AREAS SUBJECT TO VEHICULAR TRAFFIC SHALL HAVE AN H-20 RATED LID. 18. PIPE DEFLECTIONS SHALL NOT EXCEED ONE-HALF OF THE PIPE MANUFACTURER'S RECOMMENDED

MAXIMUM DEFLECTION. 19. ALL WATER MAINS SHALL BE PRESSURE TESTED AND DISINFECTED IN ACCORDANCE WITH THE MOST RECENT CONSTRUCTION STANDARDS AND SPECIFICATIONS OF THE UTILITY OWNER. PRESSURE TESTS MUST BE OBSERVED BY THE PROJECT ENGINEER, OR WATER SYSTEM OWNER STAFF.

20. NO CONNECTION TO EXISTING WATER MAINS PRIOR TO DISINFECTION OF THE NEW MAINS AND WRITTEN APPROVAL OF THE WATER SYSTEM OWNER.

21. WATER LINES SHALL HAVE A MINIMUM CLEARANCE FROM SEWER LINES OF 10 FEET IN THE HORIZONTAL DIRECTION AND 1.5 FEET VERTICALLY. IF MINIMUM CLEARANCES ARE IMPRACTICAL; THE PROJECT ENGINEER, AT THEIR SOLE DISCRETION, MAY ALLOW FOR REDUCED CLEARANCES WITH CONCRETE ENCASEMENT

22. CONTRACTOR SHALL PROVIDE WATER USERS A MINIMUM OF 48 HOURS NOTICE PRIOR TO ANY DISRUPTION OF SERVICE.

23. TRACER WIRE SHALL BE INSTALLED ON ALL NON-METALLIC WATER MAINS. TRACER WIRE SHALL BE AWG 12 GAUGE WITH A SINGLE COPPER CONDUCTOR AND BLUE COLORED SHEATH.

24. SERVICE CONNECTIONS SHALL BE COMPLETED FOLLOWING THE PIPE MANUFACTURERS **RECOMMENDATIONS.** 

25. ALL BENDS, TEES, FIRE HYDRANTS AND PLUGS SHALL BE PROTECTED FROM THRUST WITH MECHANICAL RESTRAINTS AND CONCRETE THRUST BLOCKS. 26. ALL PIPE JOINTS WITHIN ONE PIPE LENGTH OF BENDS, TEES, PLUGS, ETC. SHALL HAVE MECHANICAL

JOINT RESTRAINTS. 27. ALL VALVES AND METER PITS ARE TO BE INSTALLED WITHIN THE PUBLIC RIGHT-OF-WAY AND

PERPENDICULAR TO THE STREET CENTERLINE. 28. METER PITS AND VAULTS MUST BE SET FLUSH WITH THE FINAL GRADE OF THE LANDSCAPE AND/OR

STREET. 29. THE FOLLOWING ARE CONSIDERED MANDATORY INSPECTION POINTS FOR WATER MAIN CONSTRUCTION:

A. TRENCH CONSTRUCTION PRIOR TO LAYING PIPE

B. PIPE BEDDING PRIOR TO COVERING PIPE

C. LEAK TESTING OF SERVICE CONNECTIONS

D. PRESSURE TESTING OF PIPE

E. LEAK TESTING OF SERVICE CONNECTIONS

F. LOCATE CONDUCTIVITY TEST (PVC MAINS ONLY)

G. COMPACTION OF STRUCTURAL FILL

H. DISINFECTION

	SEAL								С
STDEE								DESIGNED BY	TV, RP
								DRAWN BY	RP
JP INC.								CHECKED BY	TLV
18 CUYAMA ROAD								SCALE (NO	SCALE)
OJAI, CA 93023 PH: 719-221-1799		DATE ENGI	NEER	MARK	REVISIONS	REVISIO	DATE N AGENCY	DATE AUG.	2022
	_								



### SEWER NOTES:

- 1. THE FOLLOWING SUBMITTALS ARE REQUIRED AND MUST BE RECEIVED AND APPROVED BY THE PROJECT ENGINEER PRIOR TO COMMENCEMENT OF THE WORK: A. MANUFACTURER'S DOCUMENTATION FOR ALL MANHOLES, PIPE MATERIAL, FITTINGS, AND OTHER APPURTENANCES.
  - B. GRADATION AND PROCTORS FOR BEDDING AND STRUCTURAL FILL MATERIAL
- 2. SEWER MAIN PIPE MATERIAL SHALL BE SDR 35 POLYVINYL CHLORIDE (PVC), SIZED AS SHOWN ON THE PLAN, AND MANUFACTURED IN CONFORMANCE WITH ASTM-3034.
- 3. ALL MATERIALS STORED ON-SITE SHALL BE PROTECTED FROM CONTAMINATION AND STORED PER THE MANUFACTURERS RECOMMENDATIONS.
- 4. ALL SEWER MAINS SHALL BE CONSTRUCTED WITH A MINIMUM COVER OF 3.5 FEET BELOW FINISHED GRADE. IF MAINTAINING MINIMUM COVER IS IMPRACTICAL; THE PROJECT ENGINEER. AT THEIR SOLE DISCRETION. MAY ALLOW REDUCED COVER WITH POLYSTYRENE INSULATION PLACED OVER THE MAIN.
- 5. STRUCTURAL FILL, AS SHOWN IN THE TYPICAL TRENCH SECTION, SHALL MEET CDOT CLASS 1 SPECIFICATIONS.
- 6. PIPE BEDDING (AS DEFINED IN THE TYPICAL TRENCH SECTION) IN DRY TRENCH CONDITIONS SHALL MEET CDOT CLASS 6 SPECIFICATIONS. IN HIGH GROUNDWATER CONDITIONS, PIPE BEDDING SHALL BE 3/4" MINUS CRUSHED ROCK.
- 7. ALL SERVICE TAPS SHALL BE INSTALLED UTILIZING PREDCO HUB TAP SADDLES LOCATED 45' FROM THE VERTICAL CENTERLINE, UNLESS NOTED OTHERWISE. CONTRACTOR SHALL CONTACT THE CITY OF SALIDA FOR INSPECTION PRIOR TO INSTALLING TAPS.
- 8. SERVICE LINES FOR INDIVIDUAL RESIDENCES SHALL BE PRESSURE RATED PVC SCHEDULE 40 UNLESS NOTED OTHERWISE.
- 9. PIPE DEFLECTIONS SHALL NOT EXCEED ONE-HALF OF THE PIPE MANUFACTURER'S RECOMMENDED MAXIMUM DEFLECTION.
- 10. SEWER LINES SHALL HAVE A MINIMUM CLEARANCE FROM WATER LINES OF 10 FEET IN THE HORIZONTAL DIRECTION AND 1.5 FEET VERTICALLY. IF MINIMUM CLEARANCES ARE IMPRACTICAL; THE PROJECT ENGINEER, AT THEIR SOLE DISCRETION, MAY ALLOW FOR REDUCED CLEARANCES WITH CONCRETE ENCASEMENT PER CITY OF SALIDA STANDARD DRAWING WS-01.
- 11. CONTRACTOR SHALL PROVIDE USERS A MINIMUM OF 48 HOURS NOTICE PRIOR TO ANY DISRUPTION OF SERVICE.
- 12. THE FOLLOWING ARE CONSIDERED MANDATORY INSPECTION POINTS FOR SEWER MAIN CONSTRUCTION:
  - A. TRENCH CONSTRUCTION PRIOR TO LAYING PIPE
  - B. PIPE BEDDING PRIOR TO COVERING PIPE
  - C. COMPACTION OF STRUCTURAL FILL
  - D. CONCRETE ENCASEMENT FORMING PRIOR TO POURING CONCRETE E. CONCRETE ENCASEMENT PRIOR TO BACKFILL
- 13. NO OTHER UTILITIES TO BE PLACED IN SEWER LATERAL TRENCH.

### PAVING NOTES:

- 1. THE FOLLOWING SUBMITTALS ARE REQUIRED AND MUST BE RECEIVED AND APPROVED BY THE PROJECT ENGINEER PRIOR TO COMMENCEMENT OF THE WORK:
  - A. GRADATION AND PROCTOR TEST FOR THE BASE COURSE MATERIAL
  - B. ASPHALT MIX DESIGN STAMPED BY A PROFESSIONAL ENGINEER.
- C. CONCRETE MIX DESIGN.
- ASPHALT PAVEMENT SHALL BE GRADE PG58-28 (S OR SX GRADING), PLACED IN ACCORDANCE WITH CDOT STANDARD SPECIFICATIONS, SECTION 401, UNLESS NOTED OTHERWISE. IF THE MIX IS NOT ON THE CDOT APPROVED PRODUCTS LIST, THE CONTRACTOR SHALL SUBMIT A MIX DESIGN TO THE PROJECT ENGINEER FOR APPROVAL.
- 3. CONCRETE FOR CURBS, GUTTERS, EDGING, CROSSPANS, ETC, SHALL BE "CLASS B" IN CONFORMANCE WITH CDOT STANDARD SPECIFICATIONS, SECTION 601 "STRUCTURAL CONCRETE". ALL CONCRETE SHALL BE CURED WITH CURING COMPOUND, CONFORMING TO AASHTO M148, IMMEDIATELY AFTER FINISHING.
- 4. CONCRETE SHALL CONTAIN FIBER REINFORCEMENT COMPLYING WITH ASTM CIII6 AT A RATE OF 1.5 LBS PER CUBIC YARD, UNLESS NOTED OTHERWISE.
- 5. PRIOR TO PLACEMENT OF AGGREGATE BASE COURSE OR ROAD SURFACING MATERIAL, SUBGRADE SHALL BE PREPARED BY REMOVING ALL ORGANICS, DEBRIS, OR OTHER DELETERIOUS MATERIAL, SCARIFYING, AND RECOMPACTING A MINIMUM OF 1 FT. DEPTH. COMPACTION WILL BE VERIFIED BY WHEEL ROLL TESTING.
- 6. AGGREGATE BASE COURSE SHALL BE CDOT CLASS 6, COMPACTED TO A MINIMUM OF 95% PER ASTM D1557 (MODIFIED PROCTOR), AND PLACED IN MAXIMUM LIFTS OF 6" (COMPACTED THICKNESS).
- 7. ASPHALT PAVING SHALL BE LAID IN LIFTS NOT TO EXCEED 3" UNLESS NOTED OTHERWISE.
- 8. ALL JOINTS BETWEEN NEW ASPHALT AND EXISTING ASPHALT AND/OR CONCRETE SHALL BE TACKED WITH DILUTED EMULSIFIED ASPHALT (SLOW SETTING) AT A MINIMUM RATE OF 0.1 GALLONS PER SQUARE YARD. TACKING OF JOINTS SHALL BE CONSIDERED INCIDENTAL TO THE STREET PAVING AND WILL NOT BE PAID FOR SEPARATELY.
- 9. CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL PERSONNEL AND DEVICES REQUIRED FOR THE PROJECT. ACCESS TO PRIVATE PROPERTIES SHALL BE MAINTAINED TO THE MAXIMUM EXTENT POSSIBLE. TRAFFIC CONTROL IS CONSIDERED INCIDENTAL TO THE CONSTRUCTION AND SHALL NOT BE PAID SEPARATELY.
- 10. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND REPAIR OF PAVEMENT FAILING TO MEET THE PROJECT SPECIFICATIONS.
- 11. CONCRETE SIDEWALKS, CURBS AND GUTTERS SHALL HAVE CONTROL JOINTS, SPACED AT A MAXIMUM OF 10' ON-CENTER, ALONG THE LONGITUDINAL LENGTH. CONTROL JOINTS MUST BE HAND FORMED OR SAWCUT WITHIN 24 HOURS OF INITIAL CONCRETE PLACEMENT. EXPANSION JOINTS SHALL BE FORMED, UTILIZING ½ PREFORMED EXPANSION JOINT FILLER, AT A MAXIMUM INTERVAL OF 300' AND AT ALL FIXED STRUCTURES.
- 12. CONTRACTOR SHALL PROVIDE THE CITY OF PUBLIC WORKS DEPARTMENT WITH NOTICE A MINIMUM OF 7 DAYS PRIOR TO COMMENCING WORK THAT WILL IMPACT THE PUBLIC.
- 13. CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING ALL VALVE BOXES, MANHOLES, AND OTHER STRUCTURES TO GRADE PRIOR TO OR DURING PAVING OPERATIONS. 14. CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER, PUBLIC WORKS DEPARTMENT,
- AND/OR TESTING AGENCIES A MINIMUM OF 2 WORKING DAYS PRIOR TO REQUESTED INSPECTION AND/OR TESTING TIMES.
- 15. THE FOLLOWING SHALL BE CONSIDERED MANDATORY INSPECTION POINTS AND WORK SHALL NOT PROGRESS BEYOND THOSE POINTS WITHOUT OBTAINING WRITTEN APPROVAL OF THE ENGINEER:
  - A. SUBGRADE PLACEMENT AND COMPACTION PRIOR TO BASE PLACEMENT.
  - B. AGGREGATE BASE COURSE PLACEMENT AND COMPACTION PRIOR TO PAVING. C. CONCRETE FORM-WORK AND REINFORCING PRIOR TO CONCRETE PLACEMENT.
  - D. STRING LINING OF BASE COURSE PRIOR TO PAVING OPERATIONS.
- 14. CONTRACTOR SHALL SWEEP THE STREET AND CLEAN THE JOBSITE OF ALL EXCESS ASPHALT MATERIAL, CONCRETE, AND OTHER DELETERIOUS MATERIAL WITHIN 48 HOURS AFTER PAVING COMPLETION.

### AGENCY REVIEW 8/31/22

<b> </b>	TY OF SALIDA	505 OAK STREET P.U.D.	SHEET NO.
>	APPROVED BY:	SALIDA, CO	1
		CIVIL ENGINEERING PLANS	15
	AGENCY HEAD DATE	CIVIL COVER SHEET	OF I D SHTS.
)	BENCHMARK: ELEVATIONS ARE ASSUMED AND ARE		PROJECT NO.
<u>/</u>	BASED ON AN ELEVATION OF 7040.0 ON THE TOP OF THE ALUMINUM CAP AT THE SOUTHWEST CORNER OF THE PROJECT PROPERTY.	NOTES, VICINITY MAP, SHEET INDEX	22007





	SEAL							
								DESIGN
SIREE								DRAWN
JP INC.								CHECK
ART GROWTH <sup>TM</sup>								SCALE
OJAI, CA 93023		DATE	BY	MARK	REVISIONS	APPR.	DATE	DATE
PH: /19-221-1799		ENGI	NEER			REVISIO	N AGENCY	

Cl	IY OF SALIDA	50
<sup>ED BY</sup> TV, RP	APPROVED BY:	
<sup>BY</sup> TV, RP		CIV
ED BY TLV	AGENCY HEAD DATE	
1"=20'	BENCHMARK: ELEVATIONS ARE ASSUMED AND ARE BASED ON AN ELEVATION OF 7040.0 ON THE	
AUG. 2022	TOP OF THE ALUMINUM CAP AT THE SOUTHWEST CORNER OF THE PROJECT PROPERTY.	



CI	IY OF SALIDA	
<sup>NED BY</sup> TV, RP	APPROVED BY:	
<sup>N BY</sup> RP		
ED BY TLV	AGENCY HEAD	DATE
1"=20'	BENCHMARK: ELEVATIONS ARE BASED ON AN ELEVATION	ARE ASSUMED AND OF 7040.0 ON THE
AUG. 2022	TOP OF THE ALUMINUM CAP AT CORNER OF THE PROJECT PRO	T THE SOUTHWEST PERTY.

		GRAPHIC SCALE
	20' 0	20' 40' 60'
		NTOUR INTERVAL = 1 FOOT)
	\	
_		- PROJECT BOUNDARY
_		- BUILDING FOOTPRINT
_		— EASEMENT LINE
		— BUILDING SETBACK LINE
	7035	- EXISTING CONTOUR
	37	- NEW CONTOUR
_	&"C	- EXISTING GAS LINE - NEW SEWER MAIN (SIZE SHOWN)
_	0	- NEW SEWER MAIN (SIZE SHOWN)
		NEW SEWER MANHOLE
	0	NEW SEWER CLEAN-OUT
_		- NEW 8" WATER MAIN
		- NEW WATER SERVICE LINE
	ц -	NEW 8" X 90° BEND
	]	NEW 8" PLUG
	ଞ	NEW CURB STOP (SIZE SHOWN)
	GAS	- NEW GAS SERVICE LINE
	ELEC-	- NEW ELECTRIC SERVICE LINE
	ET	NEW ELECTRIC TRANSFORMER (OR PULL BOX)
		NEW ELECTRIC 2/4-UNIT METER BANK
	X	SOLAR PARKING LIGHT (GREENSHINE LUMINA)
	тсо	TOP OF CLEAN-OUT
	ЭМП	SEWER MANHULE
	<u> </u>	NSTRUCTION NOTES:
	(3) INSERT 4' DIAMETER PLAN AND PER CIT (37) FURNISH & INSTALL	R SEWER MANHOLE, IN EXISTING 8" SEWER MAIN, PER ( OF SALIDA STANDARD DETAILS. 4' DIAMFTER SEWER MANHOLE PER PLAN AND CITY OF
	SALIDA STANDARD E	ETAILS.
	(33) FURNISH & INSTALL SALIDA STANDARD [	. 8" DIAMETER PVC SEWER MAIN PER PLAN AND CITY OF DETAILS.
	SEWER MAIN PER F MAINTAIN 2% MINIM	. 4 DIAMETER SEWER SERVICE TAP ON EXISTING 8 LAN AND CITY OF SALIDA STANDARD DETAILS. JM PIPE SLOPE.
	(35) FURNISH & INSTALL CITY OF SALIDA STA	4" DIAMETER SEWER SERVICE TAP PER PLAN AND NDARD DETAILS. MAINTAIN 2% MINIMUM PIPE SLOPE.
	(4) CONNECT NEW 8" [ WATER MAIN WITH A	DIAMETER PVC WATER MAIN TO EXISTING 8" DIAMETER APPROPRIATE APPURTENANCES, WHERE SHOWN ON PLAN.
	(42) FURNISH & INSTALL OF SALIDA STANDAR	. 8" DIAMETER PVC WATER MAIN PER PLAN AND CITY D DETAILS. MAINTAIN 5' MINIMUM COVER.
	(4.3) FURNISH & INSTALL	8 IEE WHERE SHOWN ON PLAN. 8" GATE VALVE WHERE SHOWN ON PLAN
	(45) FURNISH & INSTALL	8" X 90° BEND WHERE SHOWN ON PLAN.
	(46) FURNISH & INSTALL	6" FIRE HYDRANT ASSEMBLY WHERE SHOWN ON PLAN.
	(47) FURNISH & INSTALL CITY OF SALIDA STA	. 1" DIAMETER HDPE WATER SERVICE LINE PER PLAN AND NDARD DETAILS.
	(48) FURNISH & INSTALL STANDARD DETAILS.	. 1" CURB STOP PER PLAN AND CITY OF SALIDA PLACE 1' BEHIND BACK OF NEW SIDEWALK.
	(49) FURNISH & INSTALL STANDARD DETAILS.	. 1" WATER DUAL METER PER PLAN AND CITY OF SALIDA
	50 FURNISH & INSTALL CITY OF SALIDA STA	. 3/4" DIAMETER HDPE IRRIGATION LINE PER PLAN AND NDARD DETAILS.
	(51) FURNISH & INSTALL STANDARD DETAILS.	3/4" CURB STOP PER PLAN AND PER CITY OF SALIDA PLACE 1' BEHIND BACK OF NEW SIDEWALK.
	52) FURNISH & INSTALL SALIDA STANDARD [	2/4 IRRIGATION WATER METER PER PLAN AND CITY OF ETAILS. 8" PLUG WHERE SHOWN ON DIAN
	54) FURNISH & INSTALL	8" X 45" BEND WHERE SHOWN ON PLAN.
	505 OAK	STREET P.U.D. SHEET NO.

CIVIL ENGINEERING PLANS

UTILITY PLAN

SEWER & WATER

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OF<u>10</u> SHTS

PROJECT NO.

22007



DATE

CRABTREE GROUP, INC

EXP. DATE <u>10/31/202</u>

TRACY L. VANDAVEER

PREPARED BY:	SEAL							
								DESIG
								DRAW
<b>GROUP</b> INC.								CHECK
ENGINEERING SMART GROWTH								SCALE
325 D STREET 918 CUYAMA ROAD Salida. Co 81201 ojai. Ca 93023		DATE	BY	MARK		APPR.	DATE	
PH: 719-539-1675 PH: 719-221-1799		ENGI	NEER		REVISIONS	REVISIO	N AGENCY	DATE



(CONTOUR INTERVAL = 1 FOOT)

	LANDSCAPE SCHEDULE					
MARK	COMMON NAME	BOTANICAL NAME	SIZE	QUANTITY		
"A"	LITTLELEAF LINDEN	TILIA CORDATA	3"	6		
"B"	NEWPORT PLUM	PRUNUS CERASIFERA 'NEWPORT'	2"	6		
$\bigotimes$	ROCKY MOUNTAIN PENSTEMON	PENSTEMON STRICTUS	3 GAL.	16		
$\otimes$	PRAIRIE PENSTEMON	PENSTEMON AMBIGUUS	3 GAL.	15		
*	RUSSIAN SAGE	PEROVSKIA ATRIPLICIFOLIA	3 GAL.	4		
	GRASS			34,784 S.F.		
	HARDSCAPE AREA			38,650 S.F.		

CITY OF SALIDA						
<sup>NED BY</sup> TV, RP	APPROVED BY:					
<sup>I BY</sup> RP						
ED BY TLV	AGENCY HEAD	DATE				
1"=20'	BENCHMARK: ELEVATIONS AR BASED ON AN ELEVATION OF 7040.	e assumed and are 0 on the top of the				
AUG. 2022	ALUMINUM CAP AT THE SOUTHWEST PROJECT PROPERTY.	CORNER OF THE				

505 OAK STREET P.U.D. SALIDA, CO LANDSCAPING LANDSCAPE PLAN PLANTING





	SEAL							
RTDEE								DESIG
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ART GROWTH™								SCALE
918 CUYAMA ROAD Ojai, ca 93023		DATE	BY	MARK	REVISIONS	APPR.	DATE	DATE
PH: 719-221-1799		ENGI	NEER			REVISIO	N AGENCY	

	I UF SALIDA
GNED BY TV, RP	APPROVED BY:
<sup>IN BY</sup> RP	
KED BY TLV	AGENCY HEAD DATE
<sup>E</sup> 1"=20'	BENCHMARK: ELEVATIONS ARE ASSUMED AND ARE BASED ON AN ELEVATION OF 7040.0 ON THE
AUG. 2022	TOP OF THE ALUMINUM CAP AT THE SOUTHWEST CORNER OF THE PROJECT PROPERTY.



L.C.E. NO. <u>38552</u>

EXP. DATE <u>10/31/202</u>





	SEAL							
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REF						$\square$		
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ART GROWTH <sup>TM</sup>								SCALE
918 CUYAMA ROAD						+		JUALE
OJAI, CA 93023		DATE	BY	MARK	REVISIONS	APPR.	DATE	DATE
PH: 719-221-1799		ENGI	NEER			REVISIO	N AGENCY	



NOTE: DIMENSIONS AND DETAILS SHOWN ARE FOR GREENSHINE NSB SERIES SOLAR LIGHTS WITH 20' POLE ONLY.

DETAIL (15) SOLAR-LIGHT POLE FOUNDATION (NO SCALE)

### AGENCY REVIEW 8/31/22

CI	TY OF SALIDA	
<sup>IED BY</sup> TV, RP	APPROVED BY:	
<sup>BY</sup> RP		
<sup>ED BY</sup> TLV	AGENCY HEAD	DATE
(NO SCALE)	BENCHMARK: ELEVATIONS ARE BASED ON AN ELEVATION OF 7040.0	ASSUMED AND ARE ON THE TOP OF THE
AUG. 2022	ALUMINUM CAP AT THE SOUTHWEST ( PROJECT PROPERTY.	CORNER OF THE

SHEET NO. 505 OAK STREET P.U.D. SALIDA, CO 7 CIVIL ENGINEERING PLANS OF<u>15</u> SHTS **GRADING DETAILS** PROJECT NO. GRADING & DRAINAGE 22007





#### TRENCH SECTION NOTES

- ASPHALT AND ALLEY PATCHING SHALL COMPLY WITH THE APPROPRIATE CITY OF SALIDA PATCHING STANDARDS.
- 2. NEW ASPHALT OR ASPHALT OVERLAYS SHALL COMPLY WITH THE PROJECT SPECIFIC STANDARDS PROVIDED IN THE STREET AND/OR ASPHALT PATCHING NOTES.
- PIPE BEDDING SHALL MEET CRUSHED DRAIN ROCK CITY OF SALIDA STANDARDS FOR CONSTRUCTION SECTION 2060.
- 4. STRUCTURAL FILL SHALL MEET CDOT CLASS 1 AGGREGATE BASE SPECIFICATIONS. 5. FILL AND BEDDING MATERIAL TO BE PLACED IN 8-INCH MAXIMUM LIFTS
- (COMPACTED DEPTH) TO THE FOLLOWING MINIMUM PERCENTAGES UNLESS NOTED **ÒTHERWISE:** 
  - A. STREETS, PARKING LOTS & ALLEYS: 95% MODIFIED PROCTOR (ASTM D1557) B. UTILITY EASEMENTS OUTSIDE THE STREET SECTION: 90% MODIFIED PROCTOR (ASTM 1557).
- C. UNDEVELOPED LAND: 80% MODIFIED PROCTOR (ASTM 1557).
- 6. THIS DETAIL IS FOR "DRY" TRENCH CONDITIONS, "WET TRENCH CONDITIONS CONTRACTOR SHALL PROVIDE A MINIMUM 4" OF 1.5 INCH MINUS WASHED ROCK UNDER PIPE BEDDING MATERIAL WRAPPED WITH FILTER FABRIC (MIRIFI 140N OR APPROVED EQUAL).
- EXCAVATED MATERIAL CONTAINING RUBBISH, FROZEN MATERIAL, ORGANIC DEBRIS, ASPHALT, CONCRETE OR OTHER DELETERIOUS MATERIALS NOT SUITABLE FOR STRUCTURAL FILL SHALL BECOME THE PROPERTY OF THE CONTRACTOR. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF MATERIAL IN A FASHION THAT COMPLIES WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS. THE OWNER MAY REQUIRE DOCUMENTATION OF PROPER DISPOSAL AS A CONDITION OF FINAL PAYMENT.
- 8. SEE WATER AND/OR SEWER GENERAL NOTES FOR PIPE SPECIFICATIONS.

### AGENCY REVIEW 8/31/22

STANDARD DETAILS         WATER DISTRIBUTION DETAILS         DATE:       Dec 2018       Not to Scale         PILENAME: 11_Solido_Water_Distribution_Details.dwg       BY:       SHEET:         NED BY
Date:       Scale:       Not to Scale       SHEET:         Dec 2018       Not to Scale       FileNAME: 11_Solido_Water_Distribution_Details.dwg       BY:       SHEET:         NED BY       APPROVED BY:       SALIDA, CO       SALIDA, CO       SHEET NO.         N BY       -       CITY STANDARD DETAILS       SHEET NO.       SHEET NO.
CITY OF SALIDA       505 OAK STREET P.U.D.       SHEET NO.         NED BY       APPROVED BY:       SALIDA, CO       8         N BY       -       CITY STANDARD DETAILS       15
APPROVED BY: SALIDA, CO N BY - CITY STANDARD DETAILS
CITY STANDARD DETAILS
i
KED BY     AGENCY HEAD     DATE     WATER DETAILS
(NO SCALE) BENCHMARK: N/A THRUST BLOCKS, TYP. TRENCH SECTION,
AUG. 2022 VALVE COLLAR, FIRE HYDRANT ASSEMBLY 22007



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OJAL, CA 93023		DATE	BY	MARK		APPR.	DATE	
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LOT<sub>I</sub> LINE

					STAND water	ARD service	DETAII e details	_S
				DATE: Dec Filename: 12_s	2018 SALIDA_Water_Service_	SCALE: Not t _Details.dwg	o Scale <sup>BY: MCL</sup>	Sheet:
CITY	OF SALIDA		505	OAK	STREE	T P.U	J.D.	SHEET NO.
ied by _ APF	PROVED BY:				SALIDA, CO			9
BY AGE	NCY HEAD	DATE	CIT	r sta	NDARD	DETAIL	_S	OF <u>15</u> SHTS.
(NO SCALE) BEN	ICHMARK: N/A			WATE	R DET	AILS		PROJECT NO.
AUG. 2022			SERV	ICE TAP	, METER F	PIT LAYO	DUT	22007



— Compression Wye

-1" (Min.) HDPE

Corporation Stop/box

\_ \_ \_

\_\_\_\_

WATER MAIN (VARIABLE) \_ \_ \_ \_ \_ \_ \_ -1" Corporation Stop 1" HDPE (Min.) <sup>-</sup>1" (Min.) Curb Shutoff Valve and Box — 1" HDPE (Min.) -Meter Tile **`**@ \_\_\_\_\_1" (Min. I.D.)

## AGENCY REVIEW 8/31/22

CITY OF SALIDA, COLORADO PUBLIC WORKS



<b>PROJECT IN</b>	FORMATION
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ENGINEERED PRODUCT MANAGER

ADS SALES REP

PROJECT NO.

# **MC-4500 STORMTECH CHAMBER SPECIFICATIONS**

- CHAMBERS SHALL BE STORMTECH MC-4500.
- CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN. IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.
- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 60x101
- CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
- THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
- CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787 6 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (<1 MIN) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) AASHTO DESIGN TRUCK.
- **REQUIREMENTS FOR HANDLING AND INSTALLATION:** 
  - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING. CHAMBERS SHALL HAVE INTEGRAL. INTERLOCKING STACKING LUGS.
  - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL. THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS **THAN 3**".
  - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 450 LBS/FT/%. THE ASC IS DEFINED IN SECTION 6.2.8 OF ASTM F2418. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.
- ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER. THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE AS FOLLOWS:
  - THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER. • THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTIONS 3 AND 12.12 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE.
  - THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2418 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.
- CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY. 9.

PRIVATE ENGINEER'S NOTES TO CONTRACTOR	PREPARED FOR:	PREPARED BY:	SEAL					Cľ	TY OF SALIDA	
THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES, CONDUITS OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS TO THE BEST OF OUR KNOWLEDGE THERE ARE NO EXISTING UTILITIES EXCEPT AS	KENT TOWNSEND 7625 U.S. HIGHWAY 50							DESIGNED BY _	APPROVED BY:	
SHOWN ON THESE PLANS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN ON THESE DRAWINGS. THE CONTRACTOR FURTHER ASSUMES ALL LIABILITY AND RESPONSIBILITY FOR THE UTILITY PIPES, CONDUITS, OR	SALIDA, CO 81201 PHONE: 719–530–1088	CRADIREE						DRAWN BY _		
STRUCTURES SHOWN OR NOT SHOWN ON THESE DRAWINGS. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY	PREPARED UNDER THE DIRECTION OF:	GROUP INC.						CHECKED BY _	AGENCY HEAD	DATE
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 COUNTY, THE CITY, THE OWNER AND THE ENGINEER HARMLESS	DATE	A STREET						SCALE (NO SCALE)	BENCHMARK: N/A	
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.	TRACY L. VANDAVEERCRABTREE GROUP, INCL.C.E. NO.38552EXP. DATE10/31/2023	SALIDA, CO         81201         OJAI, CA         93023           PH:         719-539-1675         PH:         719-221-1799		DATE BY ENGINEER	MARK	REVISIONS	APPR. DATE REVISION AGENCY	DATE AUG. 2022		



# 505 OAK STREET SALIDA, CO

## **IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF MC-4500 CHAMBER SYSTEM**

- PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
- CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR EXCAVATOR SITUATED OVER THE CHAMBERS. STORMTECH RECOMMENDS 3 BACKFILL METHODS:
  - STONESHOOTER LOCATED OFF THE CHAMBER BED
  - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE. BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
- THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
- JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE. 5.
- MAINTAIN MINIMUM 9" (230 mm) SPACING BETWEEN THE CHAMBER ROWS. 6.
- INLET AND OUTLET MANIFOLDS MUST BE INSERTED A MINIMUM OF 12" (300 mm) INTO CHAMBER END CAPS.
- EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE MEETING THE AASHTO M43 DESIGNATION OF #3 8 OR #4.
- STONE SHALL BE BROUGHT UP EVENLY AROUND CHAMBERS SO AS NOT TO DISTORT THE CHAMBER SHAPE. STONE DEPTHS SHOULD NEVER 9. DIFFER BY MORE THAN 12" (300 mm) BETWEEN ADJACENT CHAMBER ROWS.
- 10. STONE MUST BE PLACED ON THE TOP CENTER OF THE CHAMBER TO ANCHOR THE CHAMBERS IN PLACE AND PRESERVE ROW SPACING.
- 11. THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIAL BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
- 12. STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

### NOTES FOR CONSTRUCTION EQUIPMENT

- 1
- 2 THE USE OF EQUIPMENT OVER MC-4500 CHAMBERS IS LIMITED: NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
  - NO RUBBER TIRED LOADER, DUMP TRUCK, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".

  - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
- 3.

# WARRANTY.





STORMTECH MC-4500 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A

STORMTECH MC-4500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".

ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE

STORMTECH MC-4500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".

FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

- USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY USING THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD
- CONTACT STORMTECH AT 1-888-892-2694 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.

### AGENCY REVIEW 8/31/22

505 OAK STREET P.U.D.	SHEET NO
SALIDA, CO	11
ADS STORMTECH DETAILS	OF <u>15</u> SH
STURM DETAILS	PROJECT N
STORM CHAMBER SYSTEM	22007





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ART GROWTH <sup>TM</sup>								SCALE
918 CUYAMA ROAD								SUALE
OJAI, CA 93023		DATE	BY	MARK	REVISIONS	APPR.	DATE	DATE
PH: 719-221-1799		ENGINEER				REVISIO	N AGENCY	

L FLEVATIONS				
AVEMENT/UNPAVED):	12.75	PART TYPE	ITEM ON	
WITH TRAFFIC): NO TRAFFIC):	8.25 7.75	PREFABRICATED END CAP	A	24" BOTTOM PARTIAL CUT END CAP, PA CONNECTIONS AND ISOLATOR PLUS RC
CONCRETE PAVEMENT):	7.75	FLAMP CONCRETE STRUCTURE	B C	INSTALL FLAMP ON 24" ACCESS PIPE / F (DESIGN BY ENGINEER / PROVIDED BY (
	5.75 0.94		•	•
	0.75 0.00			

	MATERIAL LOCATION
D	FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF TH LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'I LAYER
С	<b>INITIAL FILL:</b> FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 24" (600 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.
В	<b>EMBEDMENT STONE</b> : FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.
A	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP THE FOOT (BOTTOM) OF THE CHAMBER.
CON	ADS GEOSYNTHETICS OF ADS GEOSYNTHETICS OF AROUND CLEAN, CRUSHED, PERIMETER STONE (SEE NOTE 4) EXCAVATION WALL -
	(CAN BE SLOPED OR VERTICAL) 12" (300 mm) MIN
NOT 1. CHA 2. MC-4 3. THE FOR 4. PER 5. REC	<b>ES:</b> MBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SF 4500 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS. IMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION UIREMENTS FOR HANDLING AND INSTALLATION: TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLE TO ENSURE A SECURE JOINT DURING INSTALLATION AND PACKELL.

PRIVATE ENGINEER'S NOTES TO CONTRACTOR	PREPARED FOR:	PREPARED BY:	SEAL						CITY OF SALIDA	
THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES, CONDUITS OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A SEARCH OF THE AVAILABLE	KENT TOWNSEND									
RECORDS TO THE BEST OF OUR KNOWLEDGE THERE ARE NO EXISTING UTILITIES EXCEPT AS	7625 U.S. HIGHWAY 50								APPROVED BT:	
MEASURES TO PROTECT THE UTILITY LINES SHOWN ON THESE DRAWINGS. THE CONTRACTOR	PHONE: 719–530–1088	ORADIREE						DRAWN BY		
STRUCTURES SHOWN OR NOT SHOWN ON THESE DRAWINGS.	PREPARED UNDER THE DIRECTION OF	- GROUP INC.								
SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY		ENGINEEDING SMART CROWTHIM							AGENCY HEAD	DATE
NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND,		ENGINEERING SMART GROWTH						SCALE (NO SCALE	BENCHMARK: N/A	
FROM ANY AND ALL LIABILITY, THE COUNT, THE COUNCE AND THE ENGINEER HARMLESS	TRACY L. VANDAVEER CRABTREE GROUP, INC	325 D STREET 918 CUYAMA ROAD SALIDA, CO 81201 OJAI, CA 93023		DATE	BY MARK	REVISIONS	APPR. DATE		-7	
OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.	L.C.E. NO. <u>38552</u> EXP. DATE <u>10/31/2023</u>	PH: 719-539-1675 PH: 719-221-1799		ENGIN	IEER	R E VISIONS	REVISION AGENC	AUG. 2022		

## FABLE FILL MATERIALS: STORMTECH MC-4500 CHAMBER SYSTEMS

	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT		
E 'C' ) D'	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.		
ΗE	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145 <sup>1</sup> A-1, A-2-4, A-3 OR AASHTO M43 <sup>1</sup> 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 24" (600 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 12" (300 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS.		
	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43 <sup>1</sup> 3, 4	NO COMPACTION REQUIRED.		
то	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43 <sup>1</sup> 3, 4 PLATE COMPACT OR ROLL TO ACHIEVE			
E MUS RIALS OR S <sup>-</sup> UP TO	ST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FO S WHEN PLACED AND COMPACTED IN 9" (230 mm) (MAX) LIFTS USING TWO FU TANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED B O THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO	OR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGU ILL COVERAGES WITH A VIBRATORY COMPACTOR. Y RAKING OR DRAGGING WITHOUT COMPACTION EQUIF REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C	ILAR NO. 4 (AASHTO M43) STONE". PMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR		
01T N ANG	ION-WOVEN GEOTEXTILE ALL JLAR STONE IN A & B LAYERS	- PAVEMENT LAYER (DESIGNED BY SITE DESIGN ENGINEER)			
		BOTTOM OF FLEXIBLE PAVEMENT. FOR UNPAVED TIONS WHERE RUTTING FROM VEHICLES MAY OCCUR, INCREASE COVER TO 30" (750 mm).	7.0' 24" (2.1 m) (600 mm) MIN* MAX		



PECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 60x101 7 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". GRESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION

N WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.

DLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.

THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3".

ION, a) THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 450 LBS/FT/%. THE ASC IS DEFINED IN SECTION 6.2.8 OF STALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW

12" (300 mm) MIN 60" (1525 mm) DEPTH OF STONE TO BE DETERMINED BY SITE DESIGN ENGINEER 9" (230 mm) MIN

🗕 12" (300 mm) MIN

SITY REQUIREMENT		E E		VN: T	KED	CTION.
ENGINEER'S PLANS. PAVED STRINGENT MATERIAL AND EQUIREMENTS.		OAK STF	SALIDA, CO	DRAV	CHEC	IOR TO CONSTRUC
I" (600 mm) OF MATERIAL OVER OMPACT ADDITIONAL LAYERS IN N. 95% PROCTOR DENSITY FOR 95% RELATIVE DENSITY FOR EGATE MATERIALS.		502		DATE:	PROJECT #:	- REVIEW THIS DRAWING PR
ON REQUIRED.						NEER SHALI S.
ACHIEVE A FLAT SURFACE. <sup>2,3</sup>					CRIPTION	DESIGN ENGII REQUIREMENT
					DESC	VE. THE SITE ID PROJECT F
						ENTATI DNS, AN
NEER'S DISCRETION.	-				DATE DRW CHK	EER OR OTHER PROJECT REPRESI LL APPLICABLE LAWS, REGULATIC
T 7.0' 1 m) IAX ▼ ■			Storm I ecn	Chamber System	888-892-2694   WWW.STORMTECH.COM	DED TO ADS UNDER THE DIRECTION OF THE SITE DESIGN ENGINI E PRODUCT(S) DEPICTED AND ALL ASSOCIATED DETAILS MEET A
		HILLIARD, OH 43026	1-800-/33-/4/3			THIS DRAWING HAS BEEN PREPARED BASED ON INFORMATION PROV RESPONSIBILITY OF THE SITE DESIGN ENGINEER TO ENSURE THAT TI
		3	SH C	eet <b>)F</b>	5	
AGENCY REVIEW &	3/3	1/22				
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SALIDA, CO ADS STORMTECH DETAILS STORM DETAILS STORM CHAMBER SYSTEM





PH: 719-221-1799		ENGI	NEER			REVISIO	N AGENCY	
918 CUYAMA ROAD Ojai, ca 93023		DATE	BY	MARK	PEVISIONS	APPR.	DATE	
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MC-4500 END CAP		STREET	DRAWN: TV	CHECKED: N/	
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ADSPLUS175 WOVEN GEOTEXTILE BETWEEN				DESCRIPTION	AIIVE. THE SITE DESIGN ENVITVEE , AND PROJECT REQUIREMENTS.
TONE AND CHAMBERS				DATE DRW CHK	L APPLICABLE LAWS, REGULATIONS,
		StormTech®	Chamber System	888-892-2694   WWW.STORMTECH.COM	ערושבע דט אשט טאטבא דחב עוהבט וואט ער יחב טו ב עבטוטא בואטווענע דאב PRODUCT(S) DEPICTED AND ALL ASSOCIATED DETAILS MEET AL
		4640 TRUEMAN BLVD HILLIARD, OH 43026 1-800-733-7473		AM/INC HAS BEEN DDEDADED BASED ON INFORMATION DD	AWING TAS BEEN PREPARED BASED ON INFORMATION FAN ISIBILITY OF THE SITE DESIGN ENGINEER TO ENSURE THAT
A (	GENCY REVIEW 8/31	si 4 ( 1/22	 HEET DF	- 5	
CITY OF SALIDA         ED BY       APPROVED BY:         BY       AGENCY HEAD         ED BY       AGENCY HEAD         (NO SCALE)       BENCHMARK: N/A	505 OAK STREET P SALIDA, CO ADS STORMTECH DE STORM DETAILS STORM CHAMBER SYSTE	P.U.D. TAILS S	S OF PRO	HEET N 14 15 SH DJECT N 22007	0. 



DATE

CRABTREE GROUP, IN

EXP. DATE <u>10/31/202</u>

FRACY L. VANDAVEER

NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE COUNTY, THE CITY, THE OWNER AND THE 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

THE OWNER OR THE ENGINEER.



ENGINEERING SM

325 D STREET Salida, co 81201 PH: 719-539-1675

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RTDEE								DESIGNED BY _	-
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OJAI, CA 93023 PH: 719-221-1799		DATE ENG	INEER	MARK	REVISIONS	REVISIC	DATE N AGENCY	DATE AUG. 2022	2