

■ LAKE DILLON FIRE DISTRICT - FIRE CODE

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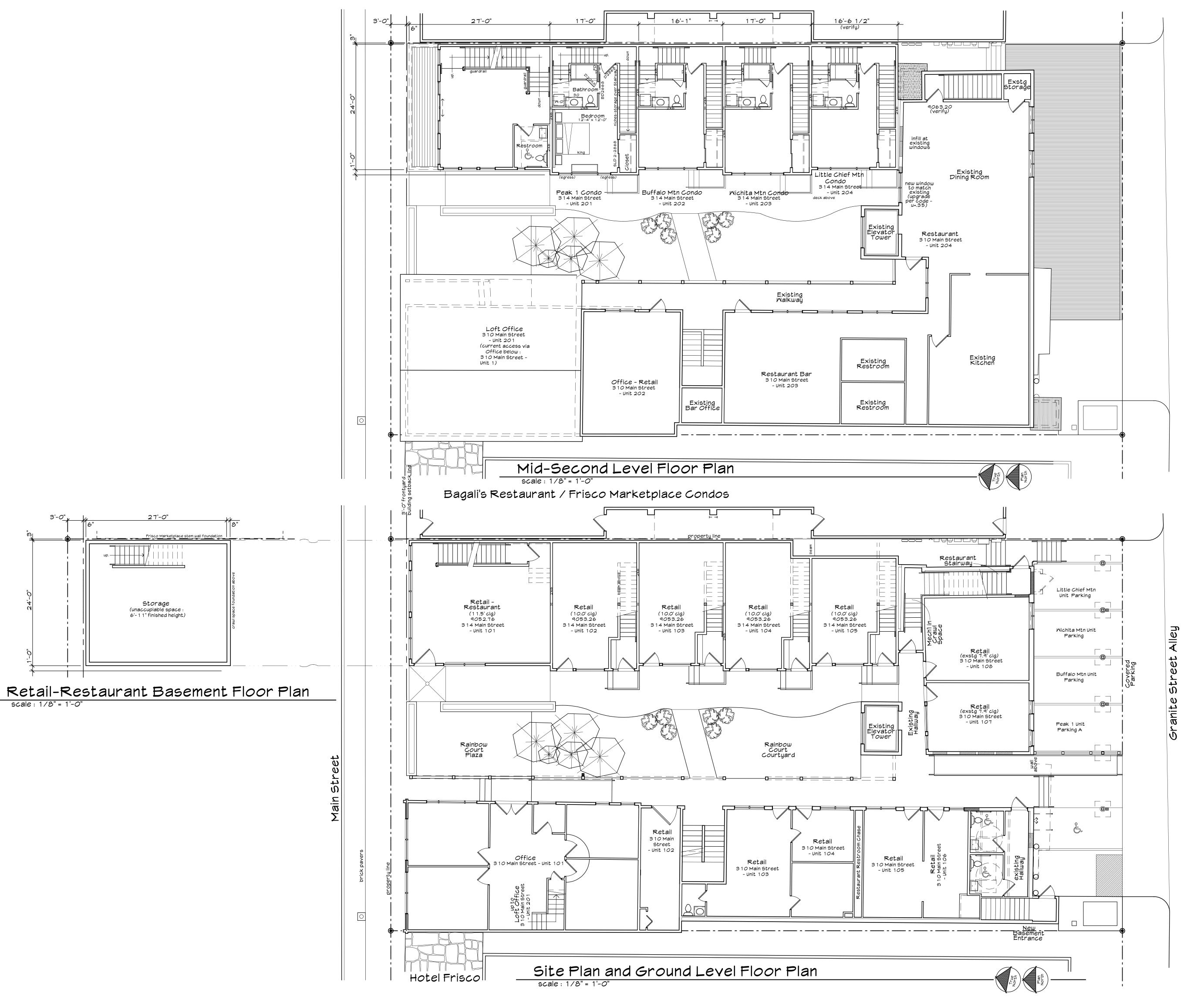
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issued for review by the Design Review Committee 10.19.2018 - issued for Sketch Review by PnZ 11.15.2018

issued for Major Site Plan Review 12.24.2018 02.10.2019 reissued per Staff and Agency Review 02.22.2019 reissue for PnZ

Continuance 04.18.2019 NOT FOR CONSTRUCTION

21810sp3.vwf 04.18.2019



3'-0" 27'-0" Hall

Storage (unaccupiable space : 6'-11" finished height)

scale: 1/8" = 1'-0"

Architect

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 $\mathbf{X}_{0} = \mathbf{X}_{0}$ 

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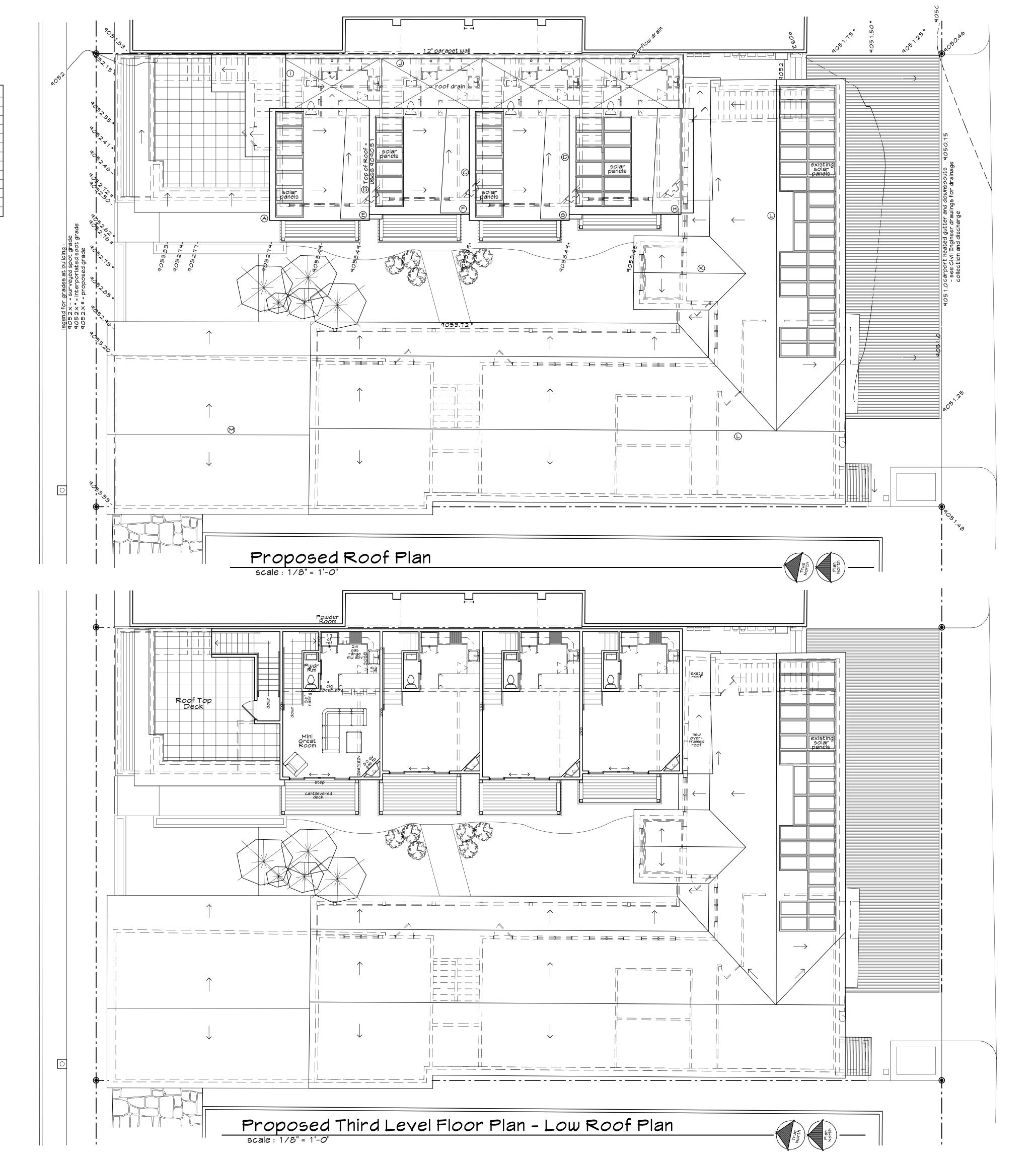
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21810 21810f13.vwf 04.18.2019 File No. : Date :

#### Building Height Calculations

Legend/Key	Existing Grade *	Top of Roof/Parapet	Allowable Building Height	Proposed/Existing Building Height
A	USGS 9052.29	USGS 9091.26	40'-'0"	38.97'
В	USGS 9053.49	USGS 9091.26	40'-0"	37.77'
C	USGS 9053.49	USGS 9091.26	40'-0"	37.77'
D	USGS 9053.49	USGS 9091.26	40'-0"	37.77'
E	USGS 9053.49	USGS 9088.34	35'- <i>O</i> "	34.85'
F	USGS 9053.49	USGS 9088.34	35'- <i>O</i> "	34.85'
G	USGS 9053.49	USGS 9088.34	35'- <i>O</i> "	34.85'
Н	USGS 9053.49	USGS 9088.34	35'- <i>O</i> "	34.85'
	USGS 9052.0**	USGS 9087.68	40'-0"	35.68'
J	USGS 9052.0**	USGS 9086.18	35'- <i>O</i> "	34.18'
K	USGS 9053.49	USGS 9077.09	40'-0"	23.6'
L	USGS 9052.0	USGS 9080.01	40'-0"	28.01'
М	USGS 9053.20	USGS 9071.68	40'-0"	18.48'

\* existing grade shown is taken from spot grades as surveyed by Range West along the existing board walk. The drop to the finish grade is approximately 6" from the top of the boardwalk. exact grades for the determination of the maximum allowable building height are based the boardwalk elevations less that approximate 6". existing grades are to be verified up the demolition of the existing east structure and the





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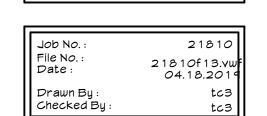
Street 9 Frisco Town Subdiv

310 # 314 Main Street
Lot 3,4,5 Block 9 Frisco

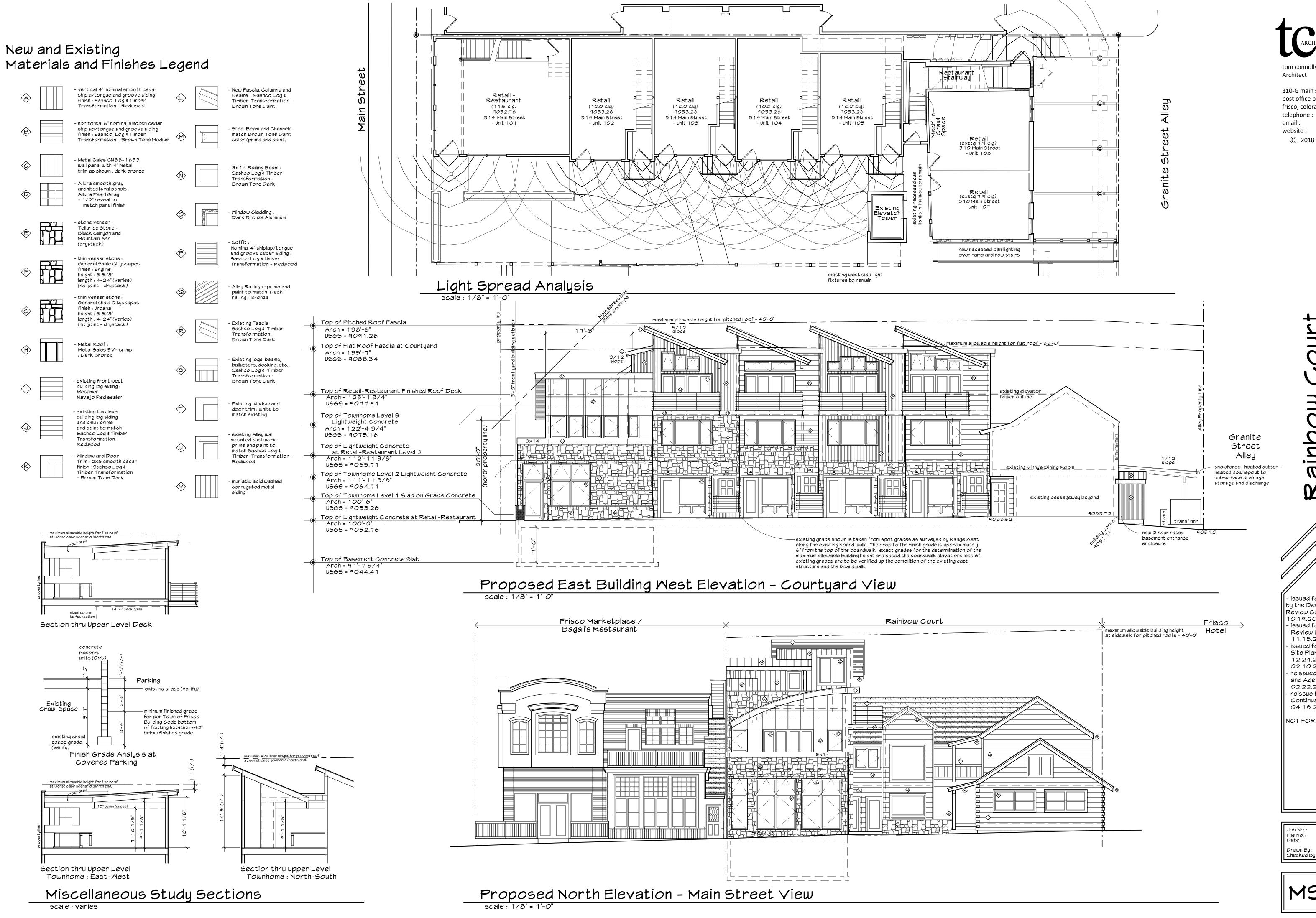
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<sup>\*\*</sup> as there were no spot grades along the space between Rainbow Court and the Frisco Merchant Building, the worst case scenario of USGS 9052 was used in the determination of the maximum allowable height along the east wall



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# maximum allowable height for pitched roof at new east wall <u>maximum allowable height fo</u> flat roof a new east wall building outline at shared property line

### New and Existing Materials and Finishes Legend

vertical 4" nominal smooth cedar

shipla/tongue and groove siding Beams : Sashco Log & finish: Sashco Log & Timber Timber Transformation: Transformation: Redwood Brown Tone Dark horizontal 6" nominal smooth cedar - Steel Beam and Channels shiplap/tongue and groove siding finish : Sashco Log & Timber match Brown Tone Dark Transformation: Brown Tone Medium color (prime and paint) Metal Sales CN88-1653 wall panel with 4" metal - 3×14 Railing Beam :

trim as shown : dark bronze - Allura smooth gray architectural panels:  $\bigcirc$ Allura Pearl Gray - 1/2" reveal to

match panel finish - stone veneer : Telluride Stone - $\langle \widehat{E} \rangle$ Black Canyon and Mountain Ash

> - thin veneer stone: General Shale Cityscapes finish : Skyline height: 3 5/8" length: 4-24" (varies) (no joint - drystack)

(drystack)

- thin veneer stone: General shale Cityscapes finish : Urbana height : 3 5/8" length: 4-24" (varies) (no joint - drystack)

Metal Sales 5V- crimp : Dark Bronze

- existing front west building log siding : Navajo Red sealer

- existing two level building log siding and cmu : prime and paint to match Sachco Log & Timber Transformation: Redwood

- Window and Door Trim: 2x6 smooth cedar finish : Sashco Log & Timber Transformation - Brown Tone Dark



Sashco Log & Timber Transformation: Brown Tone Dark

> - Window Cladding: Dark Bronze Aluminum

New Fascia, Columns and

Nominal 4" shiplap/tongue and groove cedar siding: Sashco Log & timber Transformation - Redwood

Alley Railings : prime and paint to match Deck railing: bronze

Existing Fascia Sashco Log & Timber Transformation: Brown Tone Dark

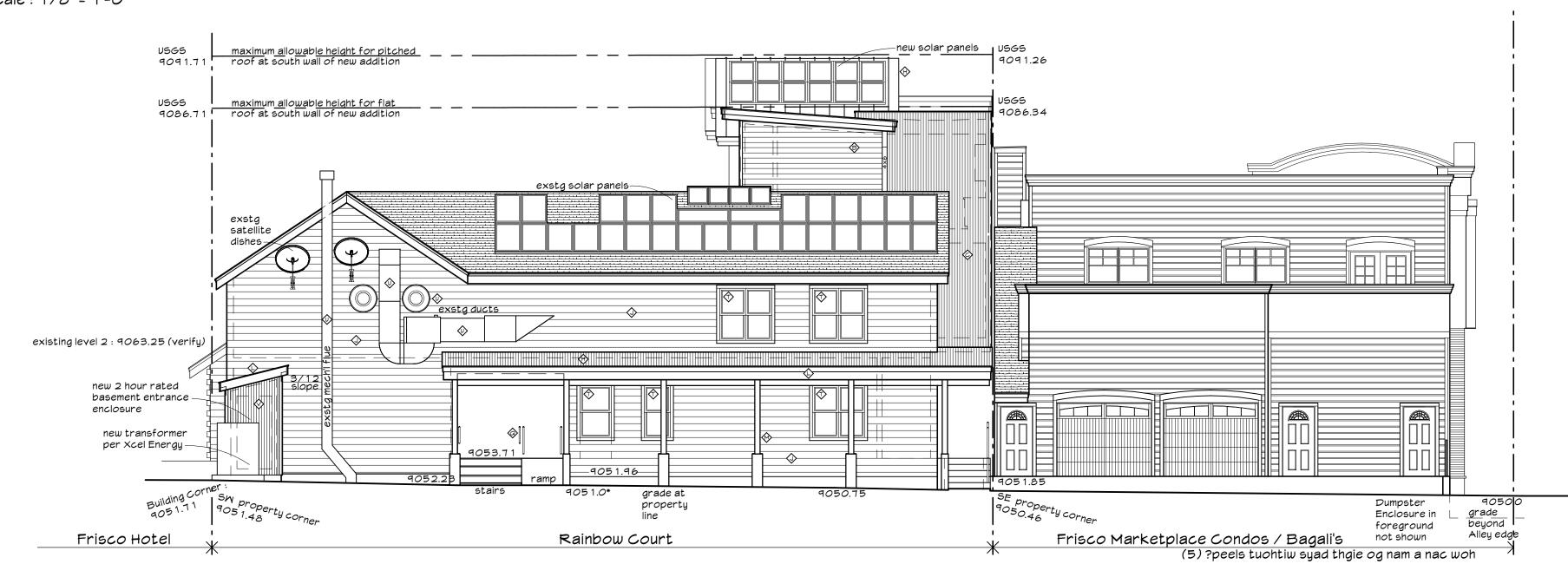
- Existing logs, beams, ballusters, decking, etc. \$ Sashco Log & Timber Transformation -Brown Tone Dark

Existing window and door trim: white to match existing

 existing Alley wall mounted ductwork : prime and paint to match Sachco Log & Timber Transformation: Redwood

- muriatic acid washed corrugated metal

## Proposed East Building Elevation with Frisco Marketplace Building Outline at Property Line



Proposed South Elevation - Granite Street Alley view scale: 1/8" = 1'-0"

ARCHITECTS

Architect

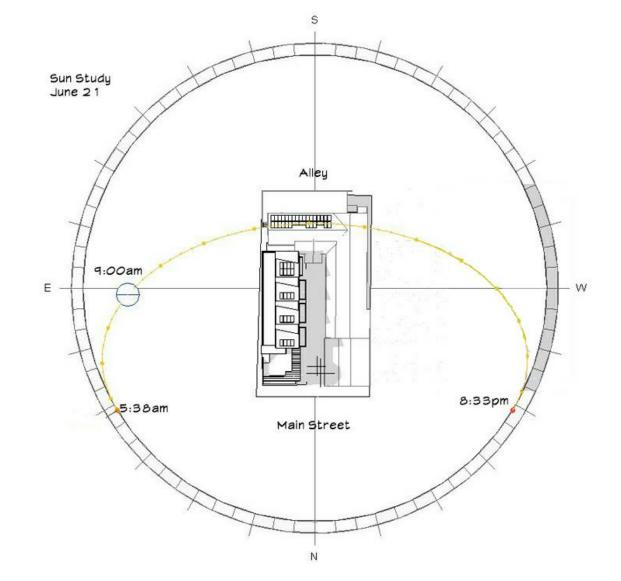
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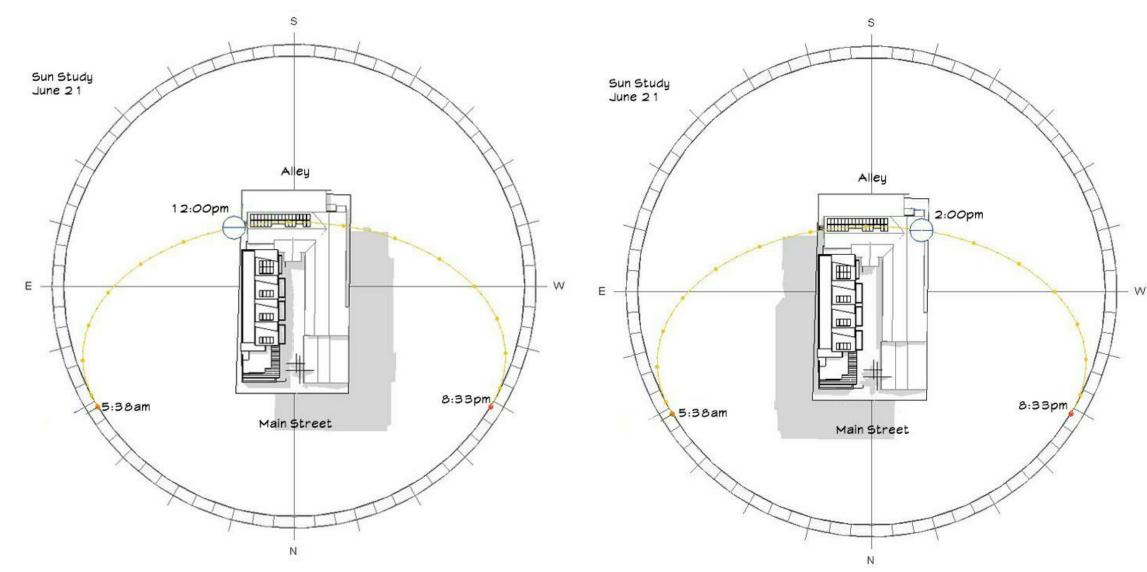
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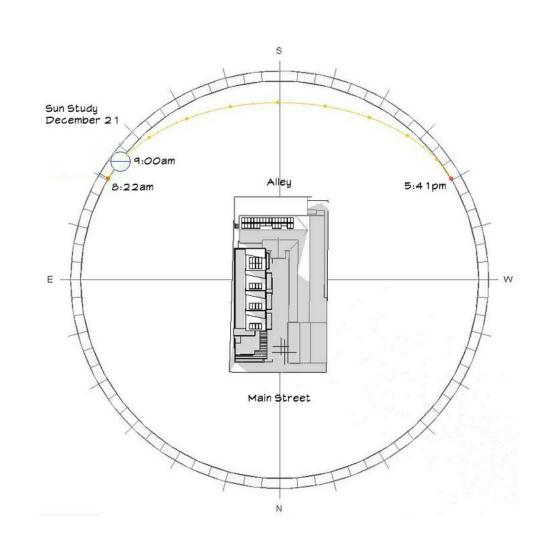
Job No.: File No.: Date: 21810 21810e13.ywf 04.18.2019 Drawn By Checked By

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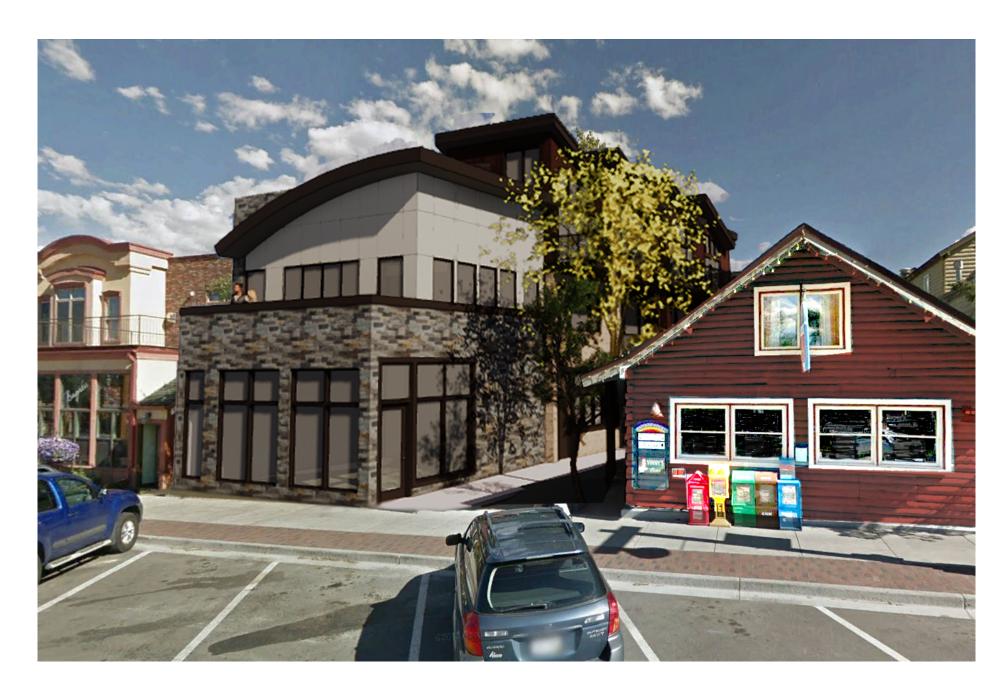
Bulk Plane Envelope Encroachment











Sun Study
December 21

12:00pm

Alley

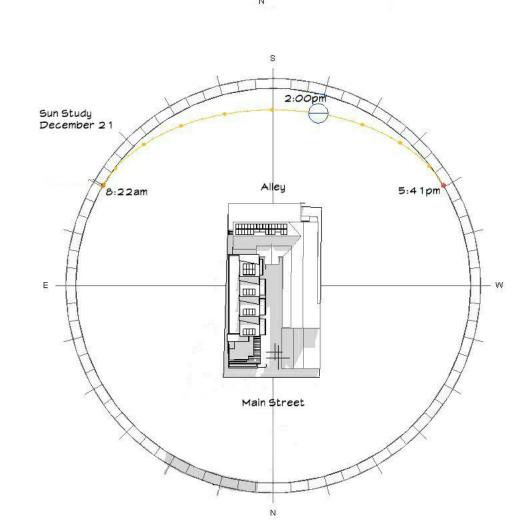
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Main Street



Total Lot Size 10,500sqft Encroachment 46sqft

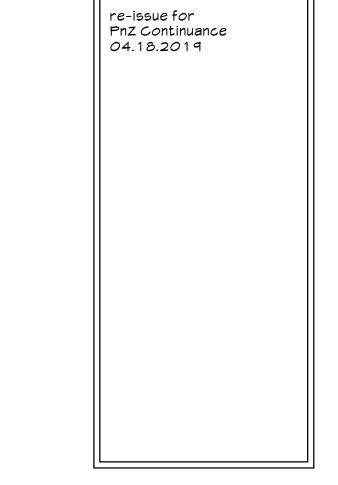
NorthWest Corner, Main Street







SouthEast Corner, Alley



 JOB NO:
 21810

 DATE:
 04.18.2019

 DRAWN BY:
 AC5

 CHECKED BY:
 TC3



#### OVERALL GENERAL NOTES:

1. THE CONTRACTOR SHALL OBTAIN, AT HIS EXPENSE, ALL PERMITS WHICH ARE NECESSARY TO PERFORM THE PROPOSED WORK.

2. TRENCHES SHALL BE EXCAVATED AND THE PIPE EXPOSED FOR INSPECTION AT ANY LOCATION ON THE PROJECT IF SO ORDERED.

3. ALL STREET STATIONING IS ALONG THE CENTERLINE OF THE ROADWAY UNLESS OTHERWISE NOTED. FOR SEPARATE WATER & SANITARY SEWER PLANS THE STATIONING IS ALONG THE CENTERLINE OF THE PIPE.

4. THE PROFILE GRADE ON THE PLANS IS ALONG THE ROADWAY CENTERLINE UNLESS OTHERWISE NOTED.

5. THE CONTRACTOR SHALL HAVE ON HIS POSSESSION AT THE SITE A COPY OF THE APPROVED CONSTRUCTION PLANS.

6. LIMITS OF WORK: NO AREAS SHALL BE DISTURBED OUTSIDE OF THE TEMPORARY CONSTRUCTION EASEMENTS AND THE ROADWAY DISTURBANCE LIMITS.

7. ALL CONSTRUCTION SHALL CONFORM TO THE TOWN OF FRISCO STANDARDS AND SPECIFICATIONS AS APPLICABLE. ALL WORKMANSHIP SHALL BE SUBJECT TO INSPECTION BY THE DEVELOPER, SUMMIT COUNTY, OR THEIR REPRESENTATIVES. ONE OR ALL OF THE PARTIES HAS THE RIGHT TO REJECT MATERIALS AND WORKMANSHIP WHICH DO NOT CONFORM TO SPECIFICATIONS.

8. THE CONTRACTOR SHALL NOTIFY THE TOWN OF FRISCO AND THE PUBLIC UTILITY COMPANIES PRIOR TO PROCEEDING WITH ANY EXCAVATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ANY EXISTING UTILITY (INCLUDING DEPTHS) WHICH MAY CONFLICT WITH THE PROPOSED CONSTRUCTION. ALL EXISTING UTILITIES SHALL BE PROTECTED FROM DAMAGE BY THE CONTRACTOR. DAMAGED UTILITIES SHALL BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE. ALL ITEMS SHOWN ON THE PLANS AS EXISTING ARE SHOWN IN APPROXIMATE LOCATIONS ONLY. THE ACTUAL LOCATIONS MAY VARY FROM THE PLANS, ESPECIALLY IN THE CASE OF UNDERGROUND UTILITIES. WHENEVER THE CONTRACTOR DISCOVERS A DISCREPANCY IN LOCATIONS, THE CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY. ALL WORK PERFORMED IN THE AREA OF THE PUBLIC UTILITIES SHALL BE

PERFORMED ACCORDING TO THE REQUIREMENTS OF THESE AGENCIES. 9. CONTRACTOR SHALL GIVE 48 HOURS NOTICE TO TOWN OF FRISCO PERSONNEL TO PERFORM REQUIRED NSPECTIONS AND PRIOR TO ANY CONSTRUCTION ON THIS SITE. 10. ALL EXCAVATION SHALL COMPLY WITH OSHA SAFETY REGULATIONS.

11. CONTRACTOR SHALL OBTAIN APPROVAL FOR ALL TRAFFIC CONTROL AND ROAD/ALLEY REQUIREMENTS NECESSARY FROM THE TOWN OF FRISCO. NO ROAD/ALLEY CLOSURES MAY OCCUR WITHOUT APPROVAL AND NOTIFICATION OF TOWN OF FRISCO AND THE FIRE DEPARTMENT. 12. CONTRACTOR SHALL OBTAIN APPROVAL FOR ALL CONSTRUCTION STAGING REQUIREMENTS OFF THE PROPERTY NECESSARY FROM THE TOWN OF FRISCO.

#### **DISTURBED AREA SEEDING NOTES:**

- All areas to be seeded will be properly prepared to provide a friable soil surface in the upper 6 inches, minimum.
- 2. Areas to be seeded will be drill seeded with the appropriate mix (Table 2 or 3) at the rates specified. Seed may be broadcast or hydroseeded on steep slopes. The specified seeding rate will be doubled for broadcast seeding or increased by 50 percent for hydroseeding.
- seeded areas will be mulched at a rate of at least two tons per acre of certified, weed-free straw mulch, or one ton per acre of wood cellulose, if hydromulching is completed. Hydromulching will be completed as a separate step after seeding.
- Straw mulch will be secured by use of m-binder tackifier at a rate of 3 pounds/1,000 square feet on slopes flatter than 2:1. Mulch will be secured with netting on slopes steeper than 3:1.

	SEED MIX TYPE I		
COMMON NAME	SCIENTIFIC NAME	% MIX	POUNDS PLS/ACRE
IDAHO FESCUE	FESTUCA IDAHOENSIS	20	3.9
ALPINE BLUEGRASS	POA ALPINA	20	1.7
WESTERN WHEATGRASS	PASCOPYRUM SMITHII	20	15.8
JUNE GRASS	KOELERIA CRISTATA	15	0.6
ARIZONA FESCUE	FESTUCA ARIZONICA	20	3.2
WHITE YARROW	ACHILLEA MILLEFOLIUM	5	0.2
TOTAL			25.4

- 1. Mix should be drill seeded, except on steep slopes where broadcast or hydroseeding are acceptable at 200 and 150 percent of rate shown, respectively.
- 2. The following wildflowers may also be seeded in certain areas. -Blanket Flower 0.8 Pounds PLS/Acre 4.4 Pounds PLS/Acre
- -Firecracker Penstemon 0.2 Pounds PLS/Acre -California Poppy 0.4 Pounds PLS/Acre
- 3. Divide Pounds PLS/Acre by 43.5 to obtain Pounds PLS/1.000 SQ.

	SEED MIX TYPE II		
COMMON NAME	SCIENTIFIC NAME	% MIX	POUNDS PLS/ACRE
WESTERN WHEATGRASS	PASCOPYRUM SMITHII	20	15.8
REDTOP	AGROSTIS ALBA	15	0.3
TUFTED HAIRGRASS	DESCHAMPSIA CAESPITOSA	15	0.5
IDAHO FESCUE	FESTUCA IDAHOENSIS	30	5.8
ALPINE BLUEGRASS	POA ALPINA	20	1.7
TOTAL			24.1

1. Mix should be drill seeded, except on steep slopes where broadcast or hydroseeding are acceptable at 200 and 150 percent of rate shown, respectively.

2. Divide Pounds PLS/Acre by 43.5 to obtain Pounds PLS/1,000 SQ

#### **ROADWAY GENERAL NOTES:**

1. EARTHWORK OPERATIONS SHALL BE IN ACCORDANCE WITH GEOTECHNICAL REPORT FOR THE PROJECT.

2. PAVING SHALL NOT START UNTIL SUBGRADE COMPACTING TESTS ARE TAKEN AND MEET THE REQUIREMENTS OF THE PLANS AND SPECS AND FINAL PAVEMENT DESIGN BY GEOTECHINCAL ENGINEER AND/OR TOWN OF FRISCO STANDARDS, WHICHEVER ARE MORE STRINGENT THE PAVEMENT SECTION SHALL BE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT FOR THS PROJECT. THE MINIMUM DEPTH OF ASPHALT SHALL BE 3 INCHES.

3. THE CONTRACTOR SHALL SAW-CUT ALL EXISTING PAVEMENT WHERE MATCH LINES WITH EXISTING EDGE OF PAVEMENT OCCUR.

4. PORTLAND CEMENT CONCRETE SHALL MEET THE FOLLOWING REQUIREMENTS: SECTION TO END SECTION. THEREFORE, DISTANCES SHOWN ON THE PLANS ARE APPROXIMATE ONLY AND COULD VARY. END SECTIONS ARE INCLUDED IN THE PIPE LENGTH SHOWN ON THE

A. COMPRESSIVE STRENGTH OF 4000 PSI AFTER 28 DAYS OF CURE TIME; B. AIR CONTENT OF  $6.5\% \pm 1.5\%$ ;

C. MAXIMUM SLUMP OF 3"; D. "FIBER MESH" FIBERS SHALL BE ADDED TO CONCRETE FOR STRENGTH, AT A RATE OF 1.5 POUNDS OF FIBER PER CUBIC YARD OF CONCRETE.

5. ROADWAY RETAINING WALL VERTICAL AND HORIZONTAL INFORMATION HAVE BEEN ESTABLISHED AS PART OF THESE ROADWAY PLANS. STRUCTURAL, GEOTECHNICAL, AND DRAINAGE ENGINEERING FOR THE WALLS IS BY OTHERS (SEE SEPARATE DESIGN DOCUMENTS). 6. COMPACTION TESTING FOR THE BASE COURSE IN THE ROADWAY SHALL MEET 95% OF MODIFIED PROCTOR (ASTM D-1557) THE MATERIAL BEING WITHIN 2.0 PERCENT OF OPTIMUM MOISTURE. EACH LIFT OF ASPHALT SHALL MEET THE MINIMUM DENSITY OF 92-96 PERCENT MAXIMUM THEORETICAL DENSITY AS DETERMINED BY THE RICE DENSITY METHOD (ASTM D-2041). TESTS SHALL BE MADE AT A FREQUENCY OF EVERY 200 LINEAR FEET AND AT EVERY 12" COMPACTED LIFT OF FILL PLACED, AND FOR EVERY LIFT OF ASPHALT PLACED OR ROLLED. ASPHALT DENSITY TESTING SHALL BE PERFORMED ON EACH LIFT AT INTERVALS OF ONE TEST PER EVERY 250 LINEAR FEET PER LANE. TEST LOCATIONS ON EACH LIFT AND EACH LANE SHALL BE STAGGERED.

7. DURING EARTHWORK OPERATION GEOTECHNICAL ENGINEER SHALL ASSESS ACTUAL SUB-SURFACE CONDITIONS AND REQUEST ADDITIONAL REQUIREMENTS IF NECESSARY.

#### STORM SEWER GENERAL NOTES

1. LOCATION AND ELEVATION OF EXISTING STORM SEWER AND CULVERTS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO START OF CONSTRUCTION. ANY DIFFERENCES FROM DESIGN PLAN SHALL BE REPORTED TO DESIGN ENGINEER.

2. STORM SEWER SHALL BE HDPE (HIGH DENSITY POLYETHYLENE).

3. ALL CULVERTS SHALL HAVE END SECTIONS ON BOTH THE UPSTREAM AND DOWNSTREAM ENDS OF THE PIPE UNLESS OTHERWISE NOTED ON THE PLANS AND SHALL EXTEND 1 TO 3 FEET BEYOND EACH EDGE OF SHOULDERED PAVED DRIVE. 4. STORM SEWER BEDDING AND PIPE ZONE BACKFILL SHALL BE 3/4" TO 1" ROAD BASE OR

5. PIPE LENGTHS FOR STORM SEWER ARE APPROXIMATE HORIZONTAL DISTANCES FROM END PLANS. FINAL LENGTH OF STORM SEWER SHALL BE SUFFICIENT TO PROVIDE THE ROAD SHOULDERS AND SIDE SLOPES TO NOT BE STEEPER THAN SHOWN ON THE TYPICAL ROAD

#### SANITARY SEWER GENERAL NOTES:

1. ALL SANITARY SEWER CONSTRUCTION SHALL CONFORM TO FRISCO SANITATION DISTRICT "DESIGN STANDARDS AND SPECIFICATIONS FOR SEWER CONSTRUCTION".

2. ALL SEWER MAINS AND SERVICES SHALL BE SDR 35 (UNLESS OTHERWISE NOTED). 3. ALL MANHOLE RIMS WITHIN THE 100-YEAR FLOOD PLAIN SHALL BE SET AT THE 100-YEAR FLOOD PLAIN ELEVATION AND SHALL HAVE GASKETTED BOLT DOWN LIDS.

4. MANHOLES SHALL BE WRAPPED WITH BITUTHENE. 5. SANITARY SEWER BEDDING AND PIPE ZONE BACKFILL GRADATION SHALL BE 1/4" TO 3/4" ORPPROVED ALTERNATE.

6. PIPELINE FLUSHING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HIRING A CLEANING COMPANY THAT WILL HIGH-PRESSURE JET CLEAN THE LINES TO INSURE THAT SAND, ROCKS, OR OTHER FOREIGN MATERIAL ARE NOT LEFT IN ANY OF THE PIPELINES. WHEN FLUSHING, CARE SHOULD BE TAKEN TO PREVENT DAMAGE TO PROPERTY OR ROADWAYS OR EROSION OF SURROUNDING SOILS. FLUSHING WATER AND FLUSHED DEBRIS SHALL NOT BE ALLOWED TO

ENTER THE EXISTING SEWER SYSTEM. 7. SEWER LINE ALIGNMENT, AND GRADE VERIFICATION. ONCE THE SEWER PIPELINES HAVE BEEN FLUSHED. THE SEWER PIPELINES SHALL BE INSPECTED BY MEANS OF CLOSED CIRCUIT TELEVISION (CCTV). DOCUMENTATION SHALL CONSIST OF A COLOR, VHS-FORMAT VIDEOTAPE, LOG SHEETS. AND A WRITTEN REPORT DETAILING THE CONDITION OF THE PIPELINE AND LATERAL CONNECTIONS/OPENINGS. THE REPORT SHALL NOTE THE TIME AND DATE OF VIDEO INSPECTION, STREET NAME, UPSTREAM AND DOWNSTREAM MANHOLE, DIRECTION OF VIEW, DIRECTION OF FLOW, SURFACE MATERIAL. PIPELINE LENGTH, PIPE SECTION LENGTH, PIPE SIZE, PIPE MATERIAL. LATERAL CONNECTIONS, VIDEO TAPE NUMBER, COUNTER NUMBER, AND A DETAILED LOGGING OF DEFECTS ENCOUNTERED. ANY REJECTED WORK SHALL BE REPAIRED, THEN RE-TELEVISED. 8. LEAKAGE. ALL PIPELINES SHALL BE TESTED FOR LEAKAGE BY MEANS OF AN AIR PRESSURE TEST. THE TEST SHALL BE PERFORMED AS FOLLOWS:

- A. PREPARATION FOR TESTS: FLUSH AND CLEAN THE PIPELINE PRIOR TO TESTING IN ORDER TO WET THE PIPE SURFACES AND PRODUCE MORE CONSISTENT RESULTS. PLUG AND BRACE ALL OPENINGS IN THE PIPELINE AND THE UPPER CONNECTIONS. CHECK ALL PIPE PLUGS WITH A SOAP SOLUTION TO DETECT ANY AIR LEAKAGE. IF LEAKS ARE FOUND, RELEASE THE AIR PRESSURE, ELIMINATE THE LEAKS, AND START THE TEST PROCEDURE OVER
- PROCEDURE OF TEST: ADD AIR UNTIL THE INTERNAL PRESSURE OF THE PIPELINE IS RAISED TO APPROXIMATELY 4.0 PSI, AT WHICH TIME THE FLOW OF AIR SHALL BE REDUCED AND THE PRESSURE MAINTAINED BETWEEN 3.5 AND 4.5 PSI FOR A SUFFICIENT TIME TO ALLOW THE AIR TEMPERATURE TO COME TO EQUILIBRIUM WITH THE TEMPERATURE OF THE PIPE.
- C. AFTER THE TEMPERATURE HAS STABILIZED, PERMIT THE PRESSURE TO DROP TO 3.5 PSIG IN EXCESS OF THE GROUND WATER PRESSURE ABOVE THE TOP OF THE SEWER, AT WHICH TIME A STOP WATCH OR SWEEP SECOND HAND WATCH SHALL BE USED TO DETERMINE THE TIME LAPSE REQUIRED FOR THE AIR PRESSURE TO DROP TO 3.0 PSIG.
- D. THE TIME ELAPSED SHALL NOT BE LESS THAN THE FOLLOWING:

PIPE SIZE TIME (INCHES) (MINUTES)

E. BRACE ALL PLUGS SUFFICIENTLY TO PREVENT BLOWOUTS AND VENT THE PIPELINE COMPLETELY BEFORE ATTEMPTING TO REMOVE PLUGS.

F. PROVIDE PRESSURIZING EQUIPMENT WITH A RELIEF VALVE SET AT 5 PSI TO AVOID OVER-PRESSURIZING AND DAMAGING AN OTHERWISE ACCEPTABLE LINE.

9. MANHOLE VISUAL EXAMINATION. THE ENGINEER SHALL VISUALLY CHECK EACH MANHOLE, BOTH EXTERIOR AND INTERIOR, FOR FLAWS, CRACKS, HOLES, OR OTHER INADEQUACIES, WHICH MIGHT AFFECT THE OPERATION OR WATERTIGHT INTEGRITY OF THE MANHOLE. SHOULD ANY NADEQUACIES BE FOUND. THE CONTRACTOR, AT ITS OWN EXPENSE, SHALL MAKE ANY REPAI DEEMED NECESSARY BY THE ENGINEER. CONTRACTOR TO NOTIFY ENGINEER 48 HOURS PRIOR TO INSTALLATION OF MAN HOLES.

10. MANHOLE LEAKAGE TEST (VACUUM). ALL MANHOLES SHALL BE TESTED FOR LEAKAGE AND ALL TESTS SHALL BE WITNESSED BY THE ENGINEER. THE LEAKAGE TEST SHALL BE CONDUCTED PRIOR TO BACK-FILLING AROUND THE MANHOLE AND SHALL BE CARRIED OUT IN THE FOLLOWING

A. MANHOLES SHALL BE VACUUM TESTED AFTER ASSEMBLY AND PRIOR TO BACKFILLING.

B. CARE SHALL BE TAKEN LO EFFECT A SEAL BETWEEN THE VACUUM BASE AND THE MANHOLE RIM. PIPE PLUGS SHALL BE SECURED TO PREVENT MOVEMENT WHILE THE VACUUM IS

C. A VACUUM OF 10 INCHES OF MERCURY SHALL BE DRAWN. THE TIME FOR THE VACUUM TO DROP TO 9 INCHES OF MERCURY SHALL BE RECORDED.

D. ACCEPTANCE SHALL BE DEFINED AS WHEN THE TIME TO DROP TO 9 INCHES MEETS OR EXCEEDS THE FOLLOWING:

TIME TO DROP 1" HG 120 SECONDS 5 FT. 120 SECONDS

120 SECONDS E. IF THE MANHOLE FAILS THE TEST, MAKE NECESSARY REPAIRS. REPAIRS AND REPAIR PROCEDURES MUST BE ACCEPTABLE TO TOWN. IF PREFORMED PLASTIC GASKETS ARE PULLED OUT DURING THE VACUUM TEST. THE

MANHOLE SHALL BE DISASSEMBLED AND THE GASKETS SHALL BE REPLACED. 11. ALL SEWER LINE WORK SHALL BE INSPECTED BY THE DESIGN ENGINEER DURING

12. AS BUILT DRAWINGS SHALL BE PROVIDED BY A PROFESSIONAL ENGINEER. 13. EXISTING SEWER MAIN ELEVATIONS MUST BE FIELD VERIFIED.

#### WATER GENERAL NOTES:

1. ALL MATERIALS AND WORKMANSHIP SHALL BE IN CONFORMANCE WITH THE TOWN OF FRISCO WATER DISTRICT CURRENT RULES AND REGULATIONS. WATER SYSTEM SPECIFICATIONS AND TESTING PROCEDURES SHALL BE IN CONFORMANCE WITH TOWN OF FRISCO WATER DISTRICT STANDARDS.

2. ALL WATER MAINS SHALL BE AWWA, CLASS 52, PUSH ON JOINT, DUCTILE IRON PIPE (DIP) WITH RUBBER GASKET ..

3. SERVICE LINES SHALL BE 1" K COPPER.

DAYS SHOULD BE EXPECTED.

ALL SERVICE LINES SHALL HAVE A BACKFLOW PREVENTION DEVICE INSTALLED UPSTREAM OF THE WATER METER CONSISTING OF A DOUBLE CHECK VALVE ASSEMBLY SIMILAR OR EQUAL TO A WATTS REGULATOR NO. 7. 4. MINIMUM COVER WITHIN STREETS IS 9.5 FEET AND 8.5 FEET IN UNPAVED LOCATIONS. INSULATION REQUIRED AT DEPTHS BELOW 8.5'.

5. THE CONTRACTOR IS RESPONSIBLE FOR: A. NOTIFYING ALL CUSTOMERS POSSIBLY AFFECTED BY OUTAGE OF WATER DURING CONSTRUCTION. B. THE CONTRACTOR SHALL OBTAIN, AT HIS EXPENSE, ALL

APPLICABLE LICENSES, PERMITS, BONDS, ETC. REQUIRED FOR THE MAIN INSTALLATION/SYSTEM MODIFICATION. C. CONTACTING TOWN OF FRISCO WATER DISTRICT FOR PRE-CONSTRUCTION MEETING AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.

NOTE: BE ADVISED THAT OCCASIONALLY VALVES IN OUR SYSTEM MAY BE INOPERABLE. ON SUCH OCCASIONS IT MAY BECOME NECESSARY TO BACK UP AN ADDITIONAL BLOCK FOR THE SHUT OUT. IT WILL THEN BE NECESSARY TO MAKE THE ADDITIONAL NOTIFICATIONS TO GIVE THE AFFECTED CUSTOMERS THE MANDATORY 24 HOURS ADVANCE NOTICE. ALSO BE ADVISED THAT WHEN VALVE MAINTENANCE IS REQUIRED, A DELAY OF SEVERAL

- 6. ALL WATER LINE WORK SHALL BE INSPECTED BY THE DESIGN ENGINEER DURING
- 7. AS BUILT DRAWINGS SHALL BE PREPARED BY A COLORADO PROFESSIONAL ENGINEER PER THE TOWN OF FRISCO WATER DISTRICT REQUIREMENTS. 8. FOR DETAILS OF IRRIGATION REQUIREMENTS AND METER REQUIREMENTS SEE
- 9. CONTRACTOR IS RESPONSIBLE FOR VERIFING THE MECHINICAL DESIGN ACCOUNTS FOR FIRE PROTECTION AND CONFIRMING THE 4" WATER SERVICE SPECIFIED IS SIZE APPROPRIATELY.

#### WATER GENERAL NOTES (CONTINUED):

10. VALVES SHALL BE RESILIENT SEAT NRS GATE VALVES AND SHALL OPEN-LEFT (MUELLER, US, WATEROUS OR CLOW BRAND RESILIENT WEDGE VALVES ONLY). CHECK WITH WATER SUPT. FOR VERIFICATION OF SPECIFIC MODEL NUMBERS.

VERIFICATION OF SPECIFIC MODEL NUMBERS. 12. ALL FIRE HYDRANTS SHALL BE WATEROUS "PACER" WITH 34-INCH MOUNTAIN STANDARD FLANGE MEETING THE FOLLOWING REQUIREMENTS:

11. VALVE BOXES SHALL BE OVAL BASE BOTTOM TYPE. CHECK WITH WATER SUPT. FOR

6 INCH FOR MECHANICAL JOINT 9'-6" OR 8'-6" (AS REQUIRED TO MEET THE WATERLINE COVER) DEPTH OF BURY **OPERATING NUT1** 1 INCH PENTAGON

LEFT(CCW) TWO 2-1/2 INCH, ONE 5-1/4 INCH PUMPER NOZZLE (THREADS TO MATCH EXISTING)

NATIONAL STANDARD CAP WITH PENTAGON NUT RED (ALL ABOVE GROUND PARTS) THRUST RESTRAINT BOTTOM THRUST BLOCK AND 2-3/4" TIE RODS FROM MAIN TEE

TO HYDRANT BOTTOM

ELEVATION OF NOZZLE 42" ± 3" OPERATING NUT ABOVE FINISHED GROUND SURFACE AT TRAFFIC FLANGE ALL HYDRANTS TO BE SHOP PRIMED AND PAINTED RED. BOLLARDS AS SPECIFIED BY TOWN. 13. WATER METER KIT WILL BE PROVIDED BY TOWN. THE CHARGE FOR THE WATER METER KIT

WILL BE PAID BY THE DEVELOPER AT THE TIME OF THE BUILDING PERMIT ISSUANCE. THE METER KIT WILL HAVE REMOTE READOUT. 14. AIR RELEASE VALVES (ARV'S) SHALL BE APCO MODEL NO. 143 C COMBINATION AIR/VACUUM VALVE OR APPROVED EQUAL.

15. MECHANICAL JOINT RESTRAINT DEVICES SHALL BE: FOR DUCTILE IRON PIPE: FOR C900 PVC PIPE: IBEE IRON INC. SERIES 1500 MEGALUG 1700 SERIES ROMAL ROM GRIP

16. PIPE JOINT RESTRAINT DEVICES. TIE RODS AND THRUST BLOCKS SHALL BE INSTALLED PER DETAILS. ALL RESTRAINT RODS AND HARDWARE ARE TO BE STAINLESS STEEL OR CORTEN. 17. CHLORINATION

THE CHLORINATION OF THE FINISHED PIPELINE SHALL BE DONE PRIOR TO THE HYDROSTATIC

ALL MAIN EXTENSIONS AND PRIVATE PIPE EXTENSIONS SHALL BE CHLORINATED IN ACCORDANCE WITH AWWA C651. THE CHLORINATING AGENT AND METHOD OF APPLICATION, SHALL BE APPROVED

TESTING. BEFORE FILLING THE PIPE WITH WATER, THE PIPE SHALL BE CLEAN AND FREE OF DEBRIS TO THE SATISFACTION OF THE TOWN. TOS WILL NOT PROVIDE LABOR OR MATERIAL FOR DISINFECTION TO APPLICANT'S INSTALLING MAINS UNDER PRIVATE CONTRACT. CHLORINE TABLETS MAY BE USED FOR DISINFECTION IN 12-INCH AND SMALLER PIPE. SIXTEEN INCH AND LARGER PIPE REQUIRES A CHLORINE SLURRY FED INTO THE WATER USED IN FILLING THE PIPE. CHLORINE TABLETS SHALL BE ATTACHED TO THE INSIDE TOP OF THE PIPE WITH AN APPROVED ADHESIVE CERTIFIED TO NSF STANDARD 61 PRIOR TO THE PIPE INSTALLATION IN THE TRENCH. AN APPROVED ADHESIVE IS DOW CORNING 732 MULTI-PURPOSE SEALANT.

NUMBER OF HYPOCHLORITE TABLETS OF 5 GRAM STRENGTH REQUIRED FOR A DOSE OF 50 MILLIGRAMS/LITER\*

PIPE LENGTH PIPE DIAMETER (INCHES) <u>6 8 12</u> 13 OR LESS

UNI-FLANGE 1400 SERIES

STAR GRIP 3000 SERIES

SIGMA-LOCK

OUTLETS

THREADS

COLOR

BY THE TOF.

\*BASED ON 3 3/4" GRAM AVAILABLE CHLORINE PER TABLET

AFTER THE PIPE IS FILLED WITH WATER AND CHLORINE. THE CHLORINATED WATER SHALL BE HELD IN CONTACT WITH THE PIPE FOR 24 HOURS. AT THE END OF THE 24 HOUR PERIOD, THE WATER IN THE PIPELINE SHALL BE TESTED BY THE TOWN OF FRISCO TO INSURE A RESIDUAL CHLORINE CONTENT OF NOT LESS THAN 25 MILLIGRAMS PER LITTER. THE PIPE LINE THEN SHALL BE THOROUGHLY FLUSHED TO REMOVE THE HEAVILY CHLORINATED WATER. THE CONTRACTOR SHALL TAKE CARE IN FLUSHING THE PIPELINE TO PREVENT PROPERTY, ENVIRONMENTAL OR DANGER TO THE PUBLIC.

SAMPLES OF WATER WILL BE COLLECTED FOR BACTERIOLOGICAL EXAMINATION AND RESIDUAL CHLORINE CONTENT TESTING BEFORE THE PIPE IS PUT INTO SERVICE. TESTING OF RESIDUAL CHLORINE AND SAMPLING WILL BE DONE BY THE LOCAL HEALTH AUTHORITY OR THEIR DESIGNATED REPRESENTATIVE.

18. HYDROSTATIC TESTING NO HYDROSTATIC TESTS SHALL BE MADE ON ANY PORTION OF THE PIPELINE UNTIL FIELD PLACED

CONCRETE HAS HAD ADEQUATE CURING TIME, DEFINED AS FOLLOWS: CONCRETE SHALL BE CURED BY A METHOD RECOMMENDED BY ACI 308. WHEN THE DAILY MEAN AMBIENT TEMPERATURE IS ABOVE 40°F, THE FINISHED CONCRETE SHALL BE CURED CONTINUOUSLY FOR A MINIMUM OF 7 DAYS OR FOR THE TIME NECESSARY TO ATTAIN 70% OF THE SPECIFIED COMPRESSIVE STRENGTH, WHICHEVER PERIOD IS LESS. WHEN THE MEAN DAILY AMBIENT TEMPERATURE IS 40°F OR LOWER, THE FINISHED CONCRETE SHALL BE CONTINUALLY CURED AT A MINIMUM TEMPERATURE OF 55° F FOR THE PERIOD RECOMMENDED BY ACI 306 TO PREVENT DAMAGE FROM EARLY-AGE FREEZING AND PROVIDE THE SERVICE CATEGORY STRENGTHS REQUIRED FOR EACH PLACEMENT

TOF SHALL BE NOTIFIED 24 HOURS IN ADVANCE OF TESTING. ALL TESTING SHALL BE MADE IN THE PRESENCE OF TOF ONLY THE FOLLOWING METHODS ARE ACCEPTABLE FOR SUPPLYING POTABLE WATER FOR

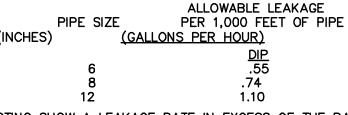
HYDROSTATIC TESTING: WATER MAY BE TAKEN FROM A NEARBY PRESSURIZED WATER SOURCE WHICH HAS BEEN PREVIOUSLY CHLORINATED, TESTED AND ACCEPTED, SUCH AS A FIRE HYDRANT. WATER MAY BE DELIVERED TO THE SITE IN A CHLORINATED WATER TRUCK HAVING A MINIMUM CAPACITY OF 300 GALLONS. THE WATER TRUCK SHALL BE USED EXCLUSIVELY FOR THE TRANSPORTATION OF POTABLE WATER.

3. ANY PREVIOUSLY TESTED, CHLORINATED AND ACCEPTED WATER MAIN, WHICH IS PRESSURIZED AND IS TO SERVE THE NEW MAIN EXTENSION, MAY BE TAPPED ON THE PRESSURIZED SIDE OF THE CLOSED VALVE.

IN ANY EVENT. THE METHOD OF SUPPLYING WATER AS WELL AS THE SOURCE OF WATER FOR HYDROSTATIC TESTING MUST BE CERTIFIED AND APPROVED BY TOB. USE OF BARRELS, SANITARY OR OTHERWISE, TO SUPPLY WATER FOR HYDROSTATIC TESTING IS STRICTLY PROHIBITED. TOF WILL FURNISH ONLY THE CALIBRATED METER BUT NOT THE PUMP FOR TESTING. THE PIPELINE SHALL BE PROPERLY BACKFILLED AND SHALL BE IN A STATE OF READINESS FOR TESTING. ALL BULKHEADS, PUMPS, TAPS, AND APPURTENANCES NECESSARY TO FILL THE PIPELINE AND MAINTAIN THE REQUIRED PRESSURE SHALL BE IN PLACE. THE PIPELINE SHALL BE FILLED WITH WATER AND THE TEST PRESSURE OF 150 POUNDS PER SQUARE INCH SHALL BE APPLIED TO THE PIPELINE BY MEANS OF A CONTINUOUSLY OPERATING PUMP, EQUIPPED WITH A BYPASS VALVE FOR REGULATING PRESSURE. WHEN FILLING THE PIPELINE, IT SHALL BE FILLED AT A RATE, WHICH WILL NOT CAUSE ANY SURGES, NOR WILL IT EXCEED THE RATE AT WHICH THE AIR CAN BE RELEASED. ALL AIR IN THE LINE SHALL BE PROPERLY PURGED. WHERE BLOWOFFS OR HYDRANTS ARE NOT AVAILABLE OR ARE NOT EFFECTIVE IN PURGING AIR FROM THE LINE, TOF SHALL REQUIRE A TAP TO PURGE THE LINE. THE LOCATION AND SIZE OF TAP SHALL BE AT TOF'S DISCRETION. WHILE THE TEST PRESSURE IS MAINTAINED, AN EXAMINATION SHALL BE MADE OF THE PIPELINE IN GENERAL, AND ANY LEAKS SHALL BE REPAIRED. ANY PIPE OR FITTING FOUND TO BE FAULTY SHALL BE REMOVED AND REPLACED. NO LEAKAGE IS ALLOWED THROUGH THE BONNET OF THE LINE VALVE. ANY VALVE LEAKING THROUGH THE BONNET SHALL BE REPAIRED IN PLACE OR REMOVED AND REPLACED. CUTTING AND REPLACING PAVEMENT, EXCAVATING, AND BACKFILLING MAY ALL BE

AFTER ALL VISIBLE LEAKS HAVE BEEN STOPPED, THE FULL TEST-PRESSURE SHALL BE MAINTAINED FOR 2 CONTINUOUS HOURS. ALLOWABLE LEAKAGE FOR EACH SECTION BETWEEN LINE VALVES SHALL NOT EXCEED THE FOLLOWING LEAKAGE RATES FOR 4-INCH THROUGH 20-INCH DISTRIBUTION AND TRANSMISSION MAINS:

NECESSARY PARTS OF LOCATING AND REPAIRING LEAKS DISCOVERED BY PRESSURE TESTING OF



970-XXX-XXXX(JEFF GOBLE)

SHOULD TESTING SHOW A LEAKAGE RATE IN EXCESS OF THE RATES SHOWN. THE PIPELINE SHALL NOT BE ACCEPTED. THE PIPELINE SHALL BE REPAIRED, RECHLORINATED AS DESCRIBED IN NOTE 12, AND RETESTED UNTIL IT MEETS THE TEST REQUIREMENTS. 19. THE CONTRACTOR IS RESPONSIBLE FOR:

A. NOTIFYING ALL CUSTOMERS POSSIBLY AFFECTED BY OUTAGE OF WATER DURING CONSTRUCTION. 3. THE CONTRACTOR SHALL OBTAIN, AT HIS EXPENSE, ALL APPLICABLE LICENSES, PERMITS, BONDS, ETC. REQUIRED FOR THE MAIN INSTALLATION/SYSTEM MODIFICATION. C. CONTACTING TOWN OF FRISCO FOR PRE-CONSTRUCTION MEETING AND INSPECTION, 970-XXX-XXXX, AT LEAST 48 HOURS PRIOR TO COMMENCING CONSTRUCTION. D. IN CASE OF AN EMERGENCY AFTER WORKING HOURS, CALL TOWN OF FRISCO AT

NOTE: BE ADVISED THAT OCCASIONALLY VALVES IN OUR SYSTEM MAY BE INOPERABLE. ON SUCH OCCASIONS IT MAY BECOME NECESSARY TO BACK UP AN ADDITIONAL BLOCK FOR THE SHUT OUT. IT WILL THEN BE NECESSARY TO MAKE THE ADDITIONAL NOTIFICATIONS TO GIVE THE AFFECTED CUSTOMERS THE MANDATORY 24 HOURS ADVANCE NOTICE. ALSO BE ADVISED THAT WHEN VALVE MAINTENANCE IS REQUIRED, A DELAY OF SEVERAL DAYS SHOULD BE EXPECTED.

#### WATER GENERAL NOTES (CONTINUED):

20. WATER TRENCH BEDDING AND PIPE ZONE BACKFILL SHALL BE GRADED AS FOLLOWS:

TOTAL PASSING BY SIZE SIEVE SIZE (% BY WEIGHT) ¾" to 1⅓" NO. 200

OR TOWN OF FRISCO APPROVED CONTRACTOR ALTERNATE

21. IRRIGATION VAULT TO BE CONSTRUCTED PER TOWN OF FRISCO DETAILS.

22. CLAY CHECK DAMS MAY BE REQUIRED IF GROUNDWATER IS ENCOUNTERED.

#### STANDARD EROSION & SEDIMENT CONTROL NOTES:

1. The contractor must notify Town of Frisco at least 48 hours prior to starting construction.

2. All grading, erosion, and sediment control must conform with approved plans. Revisions to disturbance areas, slopes, and/or erosion and sediment control measures are not permitted without prior approval from the Town of Frisco. 3. The landowner is responsible for obtaining a permit for Storm Water Discharges Associated with Construction Activity from the Colorado Department of Public Health and Environment, at least 10 days prior to the start of construction activities for land disturbance areas of one half acre or greater. The permit must be kept current throughout the construction duration.

4. Erosion control measures must be installed prior to grading activities.

5. All temporary and permanent soil erosion and sediment control practices must be maintained and repaired as needed to assure continued performance of their intended function. For example, erosion control blankets, straw bale dikes or silt fences may require periodic replacement. Sediment traps and basins will require periodic sediment removal.

6. All topsoil, where physically practicable, must be salvaged and not topsoil shall be removed from the site except as set forth in the approved plans. Topsoil and overburden must be segregated and stockpiled separately. Topsoil and overburden must be redistributed within the graded area after rough grading to provide a suitable base for areas, which must be seeded and planted. Runoff from the stockpiled area must be controlled to prevent erosion and resultant sedimentation of receiving water.

7. The landowner and/or contractor must immediately take all necessary steps to control increased sediment discharge. 8. The landowner and/or contractor is responsible for clean up and removal of all sediment and debris from all drainage

infrastructure and other public facilities. 9. The landowner and/or contractor must take reasonable precautions to ensure that vehicles don not track or spill earth

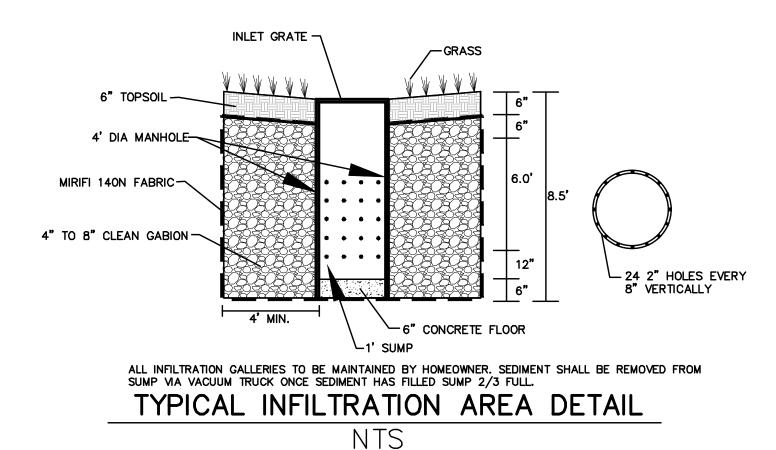
materials on to streets/roads and must immediately remove such material if this occurs. 10. The landowner and/or contractor is responsible for controlling waste such as discarded building materials, concrete truck washout, chemicals, litter, and sanitary waste, as applicable. In addition, spill prevention and containment BMP's for construction materials, waste and fuel must be provided, as applicable

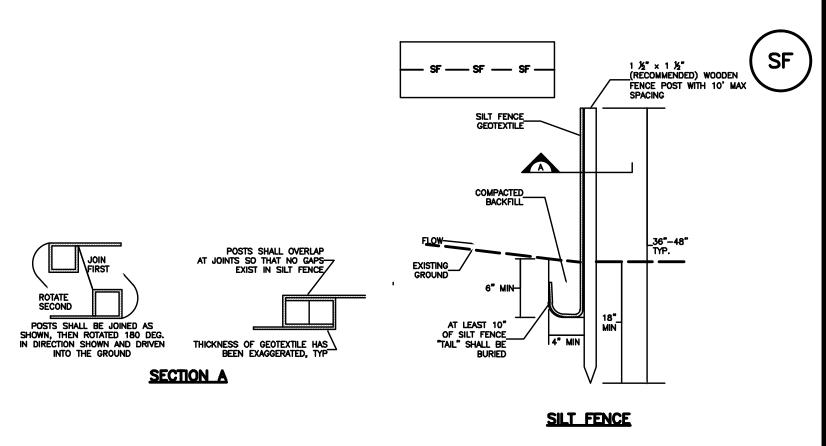
11. If it is necessary to move material in excess of 300 cubic yards and/or 10,000 square feet of land disturbance area to or from another Town of Frisco site, an approved grading and erosion control plan and is necessary for the off-site property. If the material is moved to a property located within another jurisdiction, evidence is required that the local government has approved the grading operation.

12. The storm water volume capacity of detention ponds must be restored and storm sewer lines will be cleaned upon completion of the project. 13. Soil stabilization measures must be applied within 30 days to the disturbed areas that may not be at final grade,

but will be left dormant for longer than 60 days. 14. Fugitive dust emissions resulting from grading activities and/or wind shall be controlled using the best available

control technology, as defined by the Colorado Department of Public Health and Environment, at the time of grading. 15. The erosion and sediment control plan may be modified by the Town of Frisco, or its authorized representative, as field conditions warrant.





#### SF SILT FENCE

SILT FENCE INSTALLATION NOTES

I. SILT FENCE MUST BE PLACED AWAY FROM THE TOE OF THE SLOPE TO ALLOW FOR WATER PONDING, SILT FENCE AT THE TOE OF A SLOPE SHOULD BE INSTALLED IN A FLAT LOCATION AT LEAST SEVERAL FEET (2-5 FT) FROM THE TOE OF THE SLOPE TO ALLOW ROOM FOR PONDING AND DEPOSITION. 2. A UNIFORM 6" X 4" ANCHOR TRENCH SHALL BE EXCAVATED USING TRENCHER OR SILT FENCEINSTALLATION DEVICE. NO ROAD GRADERS, BACKHOES, OR SIMILAR EQUIPMENT SHALL BE USED.

3. COMPACT ANCHOR TRENCH BY HAND WITH A "JUMPING JACK" OR BY WHEEL ROLLING. COMPACTION SHALL BE SUCH THAT SILT FENCE RESISTS BEING PULLED OUT OF ANCHOR TRENCH BY HAND.

4. SILT FENCE SHALL BE PULLED TIGHT AS IT IS ANCHORED TO THE STAKES. THERE SHOULD BE NO NOTICEABLE SAG BETWEEN STAKES AFTER IT HAS BEEN ANCHORED TO THE STAKES.

5. SILT FENCE FABRIC SHALL BE ANCHORED TO THE STAKES USING 1" HEAVY DUTY STAPLES OR NAILS WITH 1" HEADS. STAPLES AND NAILS SHOULD BE PLACED 3" ALONG THE FABRIC DOWN THE 6. AT THE END OF A RUN OF SILT FENCE ALONG A CONTOUR, THE SILT FENCE SHOULD BE TURNED PERPENDICULAR TO THE CONTOUR TO CREATE A "J-HOOK." THE "J-HOOK" EXTENDING PERPENDICULAR TO THE CONTOUR SHOULD BE OF SUFFICIENT LENGTH TO KEEP RUNOFF FROM FLOWING AROUND THE END OF THE SILT FENCE (TYPICALLY 10' - 20').
7. SILT FENCE SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.

THURQUIGHET.

3. WHERE BMP'S HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

4. SEDIMENT ACCUMULATED UPSTREAM OF THE SILT FENCE SHALL BE REMOVED AS NEEDED TO MAINTAIN THE FUNCTIONALITY OF THE BMP, TYPICALLY WHEN DEPTH OF ACCUMULATED SEDIMENTS IS 5. REPAIR OR REPLACE SILT FENCE WHEN THERE ARE SIGNS OF WEAR, SUCH AS SAGGING, TEARING, OR COLLAPSE.
5. SILT FENCE IS TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION, OR IS REPLACED BY AN EQUIVALENT PERIMETER SEDIMENT. 7. WHEN SILT FENCE IS REMOVED, ALL DISTURBED AREAS SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE

NOTE; MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

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