CONSTRUCTION NOTES

1. ALL CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE MOST CURRENT EDITION OF THE "IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION" (ISPWC) AND CITY OF KETCHUM STANDARDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND KEEPING A COPY OF THE ISPWC AND CITY OF KETCHUM STANDARDS ON SITE DURING CONSTRUCTION.

2. THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN ON THE PLANS IN AN APPROXIMATE WAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING EXISTING UTILITIES PRIOR TO COMMENCING WORK DURING THE CONSTRUCTION. THE CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH RESULT FROM HIS FAILURE TO ACCURATELY LOCATE AND PRESERVE ANY AND ALL EXISTING UNDERGROUND UTILITIES. CONTRACTOR SHALL CALL DIGLINE (1-800-342-1585) TO LOCATE ALL EXISTING UNDERGROUND UTILITIES A MINIMUM OF 48 HOURS IN ADVANCE OF EXCAVATION.

3. CONTRACTOR SHALL COORDINATE RELOCATIONS OF DRY UTILITY FACILITIES (POWER, CABLE, PHONE) WITH THE APPROPRIATE UTILITY FRANCHISE.

4. THE CONTRACTOR SHALL CLEAN UP THE SITE AFTER CONSTRUCTION SO THAT IT IS IN A CONDITION EQUAL TO OR BETTER THAN THAT WHICH EXISTED PRIOR TO CONSTRUCTION.

5. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION (THIS MAY INCLUDE ENCROACHMENT PERMITS AND NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) CONSTRUCTION GENERAL PERMIT (CGP) PERMIT COVERAGE).

6. ALL CLEARING & GRUBBING SHALL CONFORM TO ISPWC SECTION 201.

7. ALL EXCAVATION & EMBANKMENT SHALL CONFORM TO ISPWC SECTION 202. SUBGRADE SHALL BE PROOF-ROLLED AND SHAPED TO LINE, GRADE, AND CROSS-SECTION SHOWN ON THE PLANS. THE SUBGRADE SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY AS DETERMINED BY ASTM D-698. THE CONTRACTOR SHALL WATER OR AERATE SUBGRADE AS NECESSARY TO OBTAIN OPTIMUM MOISTURE CONTENT. IN-LIEU OF DENSITY MEASUREMENTS, THE SUBGRADE MAY BE PROOF-ROLLED TO THE APPROVAL OF THE ENGINEER.
   - PROOF-ROLLING: AFTER EXCAVATION TO THE SUBGRADE ELEVATION AND PRIOR TO PLACING COURSE GRAVEL, THE CONTRACTOR SHALL PROOF ROLL THE SUBGRADE WITH A 5-TON SMOOTH DRUM ROLLER, LOADED WATER TRUCK, OR LOADED DUMP TRUCK, AS ACCEPTED BY THE ENGINEER. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF UNSUITABLE SUBGRADE MATERIAL AREAS, AND/OR AREAS NOT CAPABLE OF COMPACTION ACCORDING TO THESE SPECIFICATIONS. UNSUITABLE OR DAMAGED SUBGRADE IS WHEN THE SOIL MOVES, PUMPS AND/OR DISPLACES UNDER ANY TYPE OF PRESSURE INCLUDING FOOT TRAFFIC LOADS.
   - IF, IN THE OPINION OF THE ENGINEER, THE CONTRACTOR'S OPERATIONS RESULT IN DAMAGE TO, OR PROTECTION OF, THE SUBGRADE, THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, REPAIR THE DAMAGED SUBGRADE BY OVER-EXCAVATION OF UNSUITABLE MATERIAL TO FIRM SUBSOIL, LINE EXCAVATION WITH GEOTEXTILE FABRIC, AND BACKFILL WITH PIT RUN GRAVEL.

8. ALL 2" MINUS GRAVEL SHALL CONFORM TO ISPWC 802, TYPE II (ITD STANDARD 703.04, 2"), SHALL BE PLACED IN CONFORMANCE WITH ISPWC SECTION 801 AND COMPACTED PER SECTION 202. MINIMUM COMPACTION OF PLACED MATERIAL SHALL BE 90% OF MAXIMUM LABORATORY DENSITY AS DETERMINED BY AASHTO T-99.

9. ALL 3/4" MINUS CRUSHED GRAVEL SHALL CONFORM TO ISPWC 802, TYPE I (ITD STANDARD 703.04, 3/4" B), SHALL BE PLACED IN CONFORMANCE WITH ISPWC SECTION 802 AND COMPACTED PER SECTION 202. MINIMUM COMPACTION OF PLACED MATERIAL SHALL BE 95% OF MAXIMUM LABORATORY DENSITY AS DETERMINED BY AASHTO T-99 OR ITD T-91.

10. ALL ASPHALTIC CONCRETE PAVEMENT WORK SHALL CONFORM TO ISPWC SECTION(S) 805, 810, AND 811 FOR CLASS II PAVEMENT. ASPHALT AGGREGATE SHALL BE 1/2" (13MM) NOMINAL SIZE CONFORMING TO TABLE 803B IN ISPWC SECTION 803. ASPHALT BINDER SHALL BE PG 58-28 CONFORMING TO TABLE A-1 IN ISPWC SECTION 805.

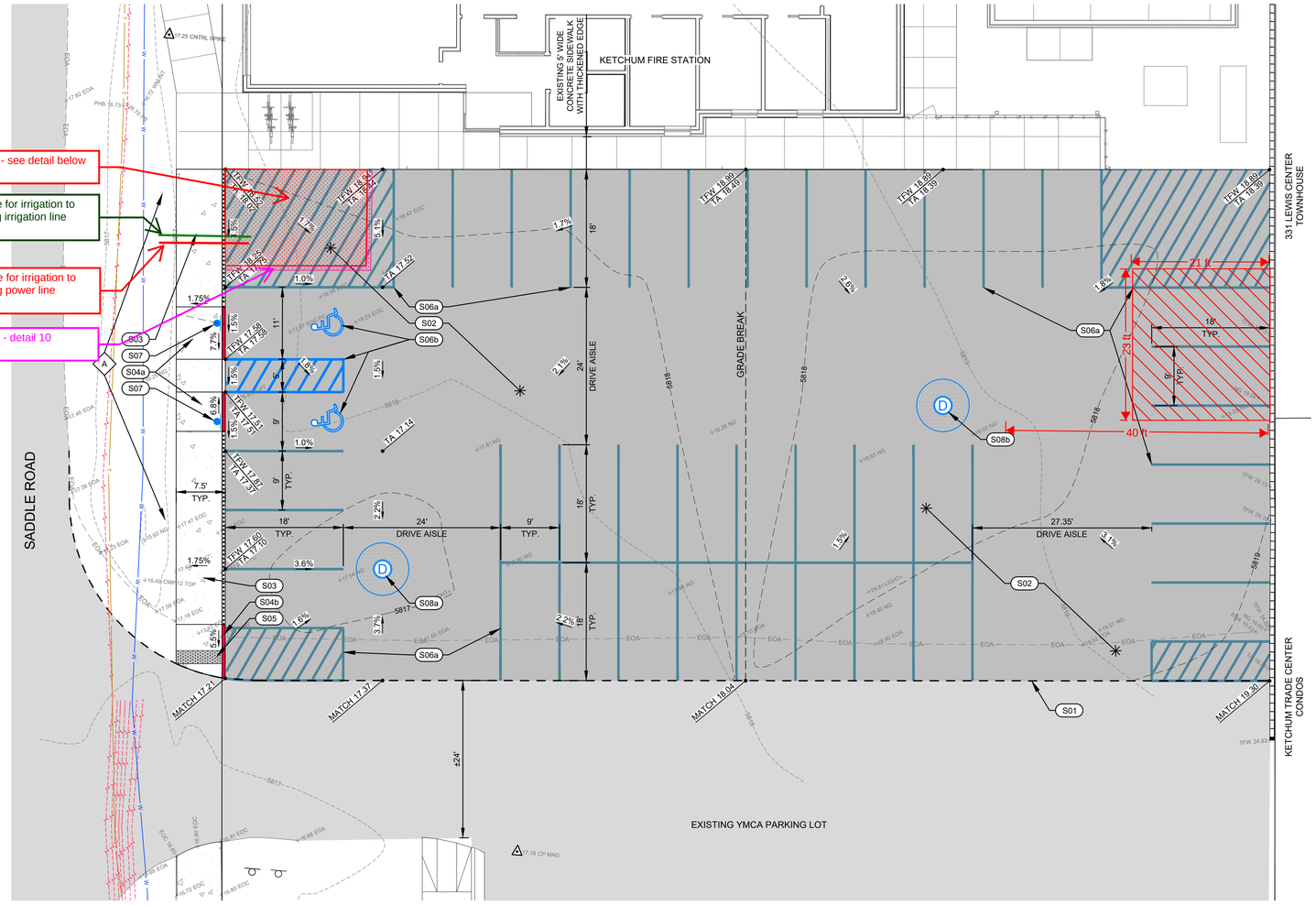
11. ASPHALT SAWCUTS SHALL BE AS INDICATED ON THE DRAWINGS, OR 24" INCHES FROM EDGE OF EXISTING ASPHALT, IF NOT INDICATED OTHERWISE SO AS TO PROVIDE A CLEAN PAVEMENT EDGE FOR MATCHING. NO WHEEL CUTTING SHALL BE ALLOWED.

12. TRAFFIC CONTROL SHALL BE PER THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

13. ALL CONCRETE WORK SHALL CONFORM TO ISPWC SECTIONS 701, 703, AND 705. ALL CONCRETE SHALL BE 3,000 PSI MINIMUM, 28 DAY, AS DEFINED IN ISPWC SECTION 703, TABLE 1. IMMEDIATELY AFTER PLACEMENT PROTECT CONCRETE BY APPLYING MEMBRANE-FORMING CURING COMPOUND, TYPE 2, CLASS A PER ASTM C 309-94. APPLY CURING COMPOUND PER MANUFACTURER'S INSTRUCTIONS AND SPECIFICATIONS.

14. PER IDAHO CODE § 55-1613, THE CONTRACTOR SHALL RETAIN AND PROTECT ALL MONUMENTS, ACCESSORIES TO CORNERS, BENCHMARKS AND POINTS SET IN CONTROL SURVEYS; ALL MONUMENTS, ACCESSORIES TO CORNERS, BENCHMARKS AND POINTS SET IN CONTROL SURVEYS THAT ARE LOST OR DISTURBED BY CONSTRUCTION SHALL BE REESTABLISHED AND RE-MONUMENTED, AT THE EXPENSE OF THE AGENCY OR PERSON CAUSING THEIR LOSS OR DISTURBANCE AT THEIR ORIGINAL LOCATION OR BY SETTING OF A WITNESS CORNER OR REFERENCE POINT OR A REPLACEMENT BENCHMARK OR CONTROL POINT, BY OR UNDER THE DIRECTION OF A PROFESSIONAL LAND SURVEYOR.

15. EXISTING CONDITIONS AND BOUNDARY INFORMATION SHOWN HEREON ARE PER A SURVEY CONDUCTED BY GALENA ENGINEERING. TOPOGRAPHIC INFORMATION IS AS IT EXISTED ON THE DATE THE FIELD SURVEY WAS PERFORMED (12/20/19). DATA REFERING TO THE NEW FIRE STATION AND SIDEWALK TO THE NORTH IS PER DESIGN DRAWINGS BY COLE ARCHITECTS (08/16/20) .



LEGEND

EXISTING CONDITIONS

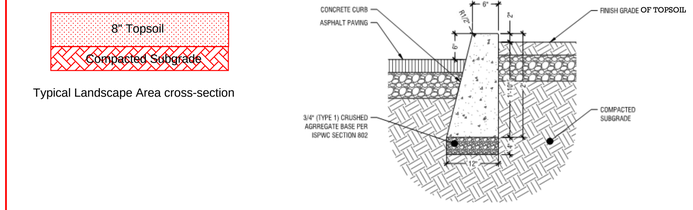
- Property Line
- Adjoiner's Lot Line
- Asphalt (EOA)
- Concrete Sidewalk
- Retaining Wall
- PB = Buried Power Line
- PHB = Buried Telephone Line
- 5' Contour Interval
- 1' Contour Interval
- CNTRL = Survey Control
- SGN = Sign

PROPOSED CONDITIONS

- Asphalt
- Concrete Sidewalk
- Thickened Edge Sidewalk
- Sidewalk ADA Ramp
- Zero Reveal Curb
- ADA Access Truncated Domes
- ADA Sign
- Drywell
- Sawcut Line
- Road Paint (white)
- Road Paint ADA (blue)
- ADA Parking Symbol
- 2.0% Grade
- LIP 50.00 Spot Elevation
- 1' Contour Interval

ABBREVIATIONS:

AP = Angle Point
BOLL = Bollard
BOW = Back of Walk
CHK = Check
CMP = Corrugated Metal Pipe
CP = Survey Control
EOA = Edge of Asphalt
EOC = Edge of Concrete
INV = Invert
IRRBOX = Irrigation Box
MAG = Magnetic Nail
NG = Natural Grade
PC = Point of Curvature
PLNTR = Planter
PT = Point of Tangent
TA = Top of Asphalt
TFW = Top Face of Wall



Typical Landscape Area cross-section

10 Vertical Curb
Scale: NTS

SITE IMPROVEMENT KEY NOTES

- (S01) SAWCUT ASPHALT TO PROVIDE FOR A CLEAN VERTICAL EDGE.
- (S02) CONSTRUCT ASPHALT PARKING LOT. SEE DETAIL 1 / C1.1.
- (S03) CONSTRUCT CONCRETE SIDEWALK WITH THICKENED EDGE. WIDTH AS SHOWN HEREON. SEE DETAIL 2 / C1.1 FOR TYPICAL CONCRETE SECTION AND DETAIL 5 / C1.1 FOR THICKENED EDGE SIDEWALK.
- (S04) CONSTRUCT ADA RAMP.
  a. SEE DETAIL 3 / C1.1
  b. SEE DETAIL 4 / C1.1
- (S05) INSTALL CITY OF KETCHUM APPROVED CAST IRON TRUNCATED DOME DETECTABLE WARNING INSERT. SEE DETAIL 9 / C1.1.
- (S06) INSTALL ROAD STRIPING / PAINT.
  a. WHITE PARKING STRIPING (4" WIDE).
  b. BLUE ADA PARKING STRIPING AND SYMBOL (4" WIDE). MATCH CITY PATTERNS.
- (S07) INSTALL ADA PARKING SIGN. REFER TO DETAILS 7 / C1.1 AND DETAILS 8 / C1.1.
- (S08) INSTALL DRYWELL. SEE DETAIL 6 / C1.1.
  a. RIM = 5816.64
  b. RIM = 5817.17
- (A) REGRADE AREA TO PROVIDE FOR A SMOOTH TRANSITION.

GRAPHIC SCALE
0 10 20
Scale in Feet

GRADING AND DRAINAGE PLAN
KETCHUM FIRE STATION- SOUTHERN PARKING LOT

LOCATED WITHIN SECTION 12, T.4 N., R.17 E., B.M., CITY OF KETCHUM, BLAINE COUNTY, IDAHO
PREPARED FOR CITY OF KETCHUM

PROJECT INFORMATION
P:\adskproj\1318-181\dwg\Construction\1318-181_ENG_2021-06-03.dwg 06/03/21 9:40:20 AM

ORIGINAL SIGNED BY SAMANTHA STAHLNECKER
DATE ORIGINAL SIGNED: 06/03/2021

PROFESSIONAL ENGINEER LICENSED 17618 06/03/21 STATE OF IDAHO SAMANTHA STAHLNECKER

ORIGINAL ON FILE AT OFFICE OF GALENA ENGINEERING (HAILEY, ID)

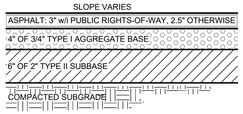
DESIGNED BY CT
DRAWN BY SMF/SKS
CHECKED BY

GALENA ENGINEERING, INC.
Civil Engineers & Land Surveyors
317 N. River Street
Hailey, Idaho 83333
(208) 788-1705
email galena@galena-engineering.com

NO	DATE	BY	REVISIONS

PURPOSE: ISSUE FOR AGENCY REVIEW

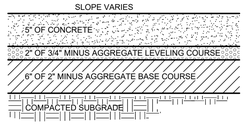
C1.0



NOTES:
1. SUBBASE CAN BE 2" TYPE II OR ¾" TYPE I CRUSHED AGGREGATE BASE COURSE.
2. MATERIALS SHALL CONFORM WITH CURRENT ISPWC STANDARDS, DIVISION 800 AGGREGATES AND ASPHALT.
3. PAVEMENT SECTION MAY BE MODIFIED IF A PROJECT SPECIFIC GEOTECHNICAL REPORT, STAMPED BY A LICENSED ENGINEER, IS PROVIDED.

1 / C1.1 TYPICAL STREET ASPHALT SECTION

N.T.S.



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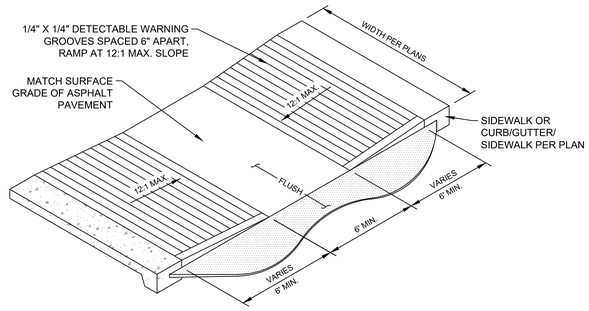
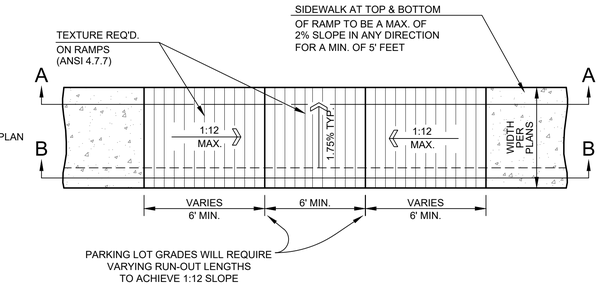
2 / C1.1 TYPICAL CONCRETE SECTION

N.T.S.



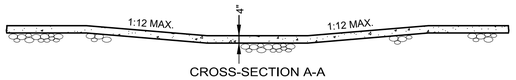
REFER TO SITE LAYOUT PLANS FOR ACTUAL RAMP CONFIGURATION, SITE LAYOUT PLAN SHALL SUPERSEED DETAIL CONFIGURATION

ISOMETRIC VIEW



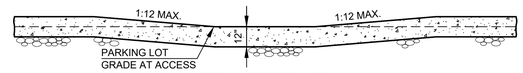
PLAN VIEW

N.T.S.



CROSS-SECTION A-A

N.T.S.



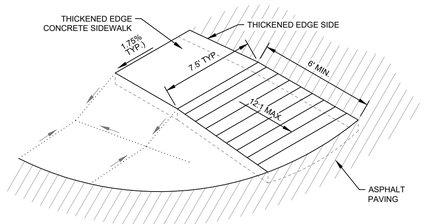
CROSS-SECTION B-B (THICKENED EDGE SECTION)

N.T.S.

NOTES:
1. 1/2-INCH PREFORMED EXPANSION JOINT MATERIAL (AASHTO M 213) AT TERMINAL POINTS OF RADII.
2. CONTINUOUS PLACEMENT PREFERRED. SCORE AT INTERVALS TO MATCH WIDTH OF WALK NOT TO EXCEED 5 FEET SPACING.
3. 1/2" TRANSVERSE PREFORMED BITUMINOUS JOINTS AT THE TERMINUS POINTS FOR CURVE AND WHERE SIDEWALK IS PLACED BETWEEN TWO PERMANENT FOUNDATIONS.
4. MATERIALS AND CONSTRUCTION IN COMPLIANCE WITH ISPWC SPECIFICATIONS.

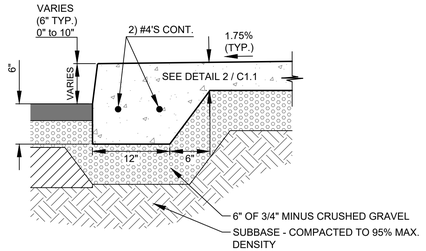
3 / C1.1 ADA ACCESS RAMP DETAIL #1

N.T.S.



4 / C1.1 ADA ACCESS RAMP DETAIL #2

N.T.S.



NOTES:
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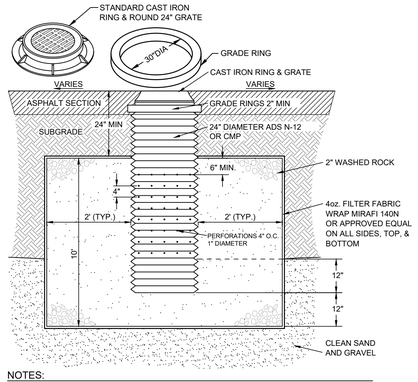
2. CONTINUOUS PLACEMENT PREFERRED. SCORE AT INTERVALS TO MATCH WIDTH OF WALK NOT TO EXCEED 5 FEET SPACING.
3. 1/2" TRANSVERSE PREFORMED BITUMINOUS JOINTS AT THE TERMINUS POINTS FOR CURVE AND WHERE SIDEWALK IS PLACED BETWEEN TWO PERMANENT FOUNDATIONS.
4. MATERIALS AND CONSTRUCTION IN COMPLIANCE WITH ISPWC SPECIFICATIONS.

5 / C1.1 THICKENED SIDEWALK EDGE

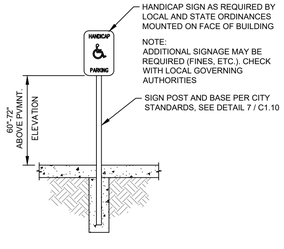
N.T.S.



NOTES:
1. THE BED SHALL BE EXCAVATED A MINIMUM OF 24" INTO CLEAN SAND AND GRAVEL.
2. MAXIMUM DEPTH SHALL NOT EXCEED 12 FEET.
3. IF CLEAN SAND AND GRAVEL IS NOT ENCOUNTERED WITHIN 12 FEET, THE CONTRACTOR SHALL CONTACT THE DESIGN ENGINEER.
4. GRATE OR SOLID LID AS APPROVED BY CITY OF KETCHUM.

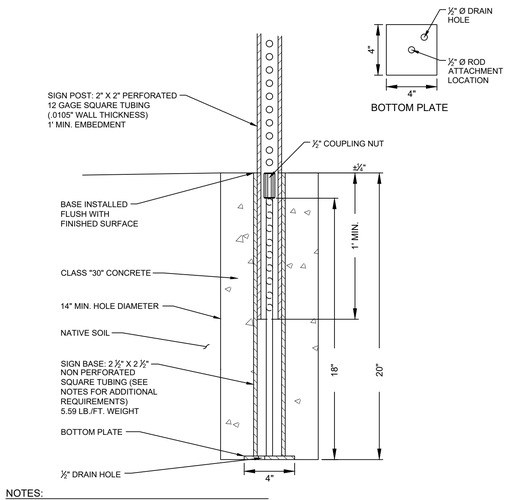
6 / C1.1 DRYWELL DETAIL (6' Ø)

N.T.S.



7 / C1.1 ADA SIGN

N.T.S.

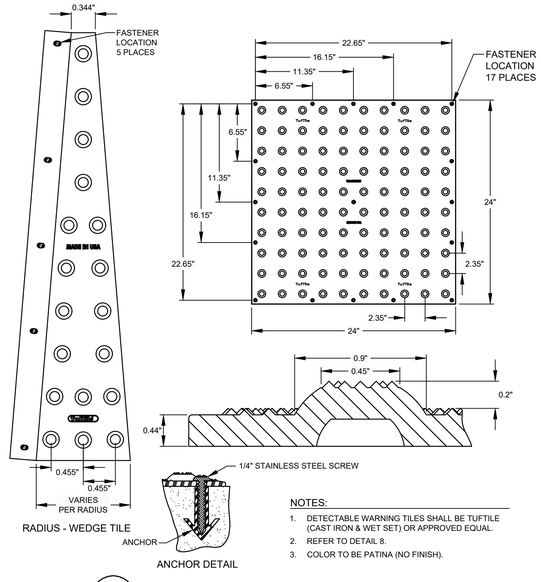


NOTES:
1. BASES SHALL BE INSTALLED TO BE FLUSH WITH SURFACE.
2. ALL INSTALLATIONS SHALL HAVE 14" Ø MINIMUM FOUNDATION OR GROUTED INTO SOLID ROCK.
3. ALL STREET SIGNS SHALL BE IN ACCORDANCE WITH THE MOST CURRENT EDITION OF THE MUTCD.
4. SIGN PLACEMENT SHALL BE APPROVED BY THE CITY OF KETCHUM.
5. CITY TO PROVIDE BASES.

SIGN BASE MATERIAL & DIMENSION REQUIREMENTS
2 ½" OUTSIDE TUBE STEEL (20" LENGTH)
2 ½" INSIDE TUBE STEEL
⅜" THICK
INTERNAL ROD MATERIAL & DIMENSION REQUIREMENTS
½" COLD ROLLED ROD (18" LENGTH)
½" COUPLING NUTS
BOTTOM PLATE MATERIAL & DIMENSION REQUIREMENTS
4" X 4" X ½" STEEL STRAP

8 / C1.1 TYPICAL SIGN BASE

N.T.S.



NOTES:
1. DETECTABLE WARNING TILES SHALL BE TUFTILE (CAST IRON & WET SET) OR APPROVED EQUAL.
2. REFER TO DETAIL 8.
3. COLOR TO BE PATINA (NO FINISH).

9 / C1.1 DETECTABLE WARNING PLATE

N.T.S.

DETAIL SHEET
KETCHUM FIRE STATION- SOUTHERN PARKING LOT

LOCATED WITHIN SECTION 12, T.4 N., R.17 E., B.M., CITY OF KETCHUM, BLAINE COUNTY, IDAHO
PREPARED FOR CITY OF KETCHUM

PROJECT INFORMATION
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ORIGINAL SIGNED BY SAMANTHA STAHLNECKER
DATE ORIGINAL SIGNED: 06/03/2021

PROFESSIONAL ENGINEER LICENSED 17618 06/03/21 STATE OF IDAHO SAMANTHA STAHLNECKER

ORIGINAL ON FILE AT OFFICE OF GALENA ENGINEERING (HAILEY, ID)

DESIGNED BY CT
DRAWN BY SMF/SKS
CHECKED BY

GALENA ENGINEERING, INC.
Civil Engineers & Land Surveyors
317 N. River Street
Hailey, Idaho 83333
(208) 788-1705
email galena@galena-engineering.com

PURPOSE: ISSUE FOR AGENCY REVIEW

NO	DATE	BY	REVISIONS

C1.1