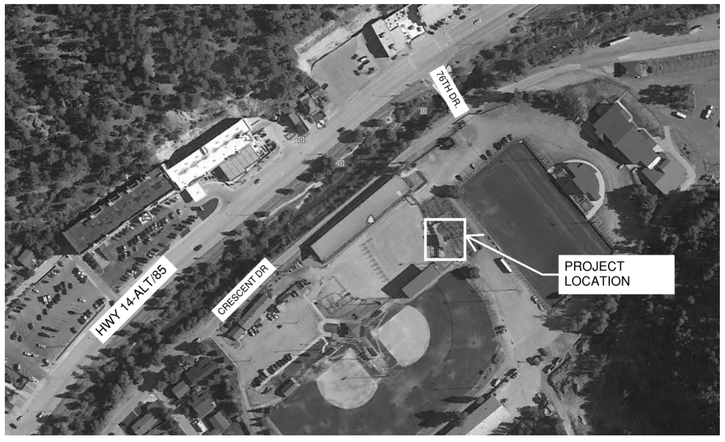
DAYS OF '76 CROW'S NEST ADDITION
DEADWOOD, SOUTH DAKOTA
100% CD SUBMITTAL

VICINITY MAPS



PROJECT TEAM

OWNER
CITY OF DEADWOOD
108 SHERMAN ST
DEADWOOD, SD 57732
605-578-2082

STRUCTURAL ENGINEER
ALBERTSON ENGINEERING INC.
3202 W. MAIN ST SUITE C
RAPID CITY, SD 57701

ARCHITECT
CHAMBERLIN
725 ST. JOSEPH ST, SUITE B1
RAPID CITY, SD 57701
605-355-6804

ELECTRICAL ENGINEER
SKYLINE ENGINEERING LLC
615 12TH STREET
RAPID CITY, SD 57701
605-737-3800

SHEET INDEX

REGISTERED PROFESSIONAL ENGINEER
REG. NO.
12764
JARED D. SCHIPPERS
SOUTH DAKOTA
5/14/21

3202 W. MAIN, SUITE C
RAPID CITY, SOUTH DAKOTA 57702
605.343.9606
Albertson Engineering Inc.

CONSULTANT

PROJECT IDEN:

DAYS OF '76 CROW'S NEST ADDITION

DEADWOOD, SOUTH DAKOTA

ISSUE BLOCK:

NO	ISSUE TYPE	ISSUE DATE
CD	100% CD	05/14/21

MANAGEMENT:

PROJECT NO: 17-356
DRAWN BY: MDR
CHECKED BY: JDS

SHEET TITLE:
COVER SHEET

SHEET IDENTIFICATION:
G001

22X34 TITLE BLOCK

GENERAL STRUCTURAL NOTES

GENERAL NOTES:

1. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH JOB SPECIFICATIONS AND ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND SITE DRAWINGS. CONSULT THESE DRAWINGS FOR SLEEVES, DEPRESSIONS AND OTHER DETAILS NOT SHOWN ON STRUCTURAL DRAWINGS.
2. ALL DIMENSIONS AND CONDITIONS MUST BE VERIFIED IN THE FIELD. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE AFFECTED PART OF THE WORK.
3. THE STRUCTURE IS DESIGNED TO BE SELF SUPPORTING AND STABLE AFTER THE BUILDING IS COMPLETE. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCE TO ENSURE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING ERECTION. THIS INCLUDES THE ADDITION OF NECESSARY SHORING, SHEETING, TEMPORARY BRACING (AND ACCOMPANYING FOOTINGS), GUYS OR TIE-DOWNS.
4. ADDITIONAL OBSERVATIONS AS A RESULT OF REJECTION OF WORK COMPLETED AND/OR ADDITIONAL OBSERVATIONS DUE TO THE DEFICIENCIES IN WORK OBSERVED WILL BE AT THE EXPENSE OF THE CONTRACTOR.
5. ALL STRUCTURAL SHOP DRAWINGS TO BE REVIEWED BY JOB SUPERINTENDENT IN ADDITION TO ALL PERSONNEL DEEMED NECESSARY BY CONTRACTOR PRIOR TO SUBMITTAL TO ENGINEER FOR APPROVAL.
6. ALL SHOP DRAWINGS TO BE REVIEWED BY ALBERTSON ENGINEERING INC. SHALL HAVE ELECTRONIC COPIES PROVIDED TO ALBERTSON ENGINEERING INC. FOR REVIEW. AN ELECTRONIC MARKED SET OF THOSE DRAWINGS WILL BE RETURNED TO THE CONTRACTOR. NO ADDITIONAL HARD COPIES OF THE SHOP DRAWINGS NEED TO BE PROVIDED TO ALBERTSON ENGINEERING INC., ALTHOUGH OTHER PARTIES MAY REQUIRE HARD COPIES OF THE MARKED UP DRAWINGS. THESE REQUIREMENTS ARE IN ADDITION TO THE TYPICAL PROJECT SHOP DRAWING SUBMITTAL REQUIREMENTS STATED IN THE PROJECT SPECIFICATIONS.
7. THE DESIGN OF THE STRUCTURE SHOWN IN THESE CONSTRUCTION DOCUMENTS IS FOR THE ONE-TIME USE AT THE SPECIFIC SITE REFERENCED IN THE GEOTECHNICAL REPORT.

DESIGN CODES:

- 2018 INTERNATIONAL BUILDING CODE.
- ACI 318-14 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND COMMENTARY.
- AISC 360-16 SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS.
- ASCE 7-16 MINIMUM DESIGN LOADS AND ASSOCIATED CRITERIA FOR BUILDINGS AND OTHER STRUCTURES.
- NDS 2018 NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION.

DESIGN LOADS:

THE STRUCTURAL SYSTEM FOR THIS BUILDING HAS BEEN DESIGNED WITH THE FOLLOWING SUPERIMPOSED LOADINGS:

ROOF:

SNOW LOAD	30 PSF + DRIFT + SLIDING
GROUND SNOW LOAD	42 PSF
DEAD LOAD	15 PSF

DECKS & STAIRS:

LIVE LOAD (VERTICAL)	100 PSF
DEAD LOAD (VERTICAL)	20 PSF
LIVE LOAD (HORIZONTAL)	12 PSF
SNOW LOAD	50 PSF

WIND:

ULTIMATE WIND SPEED	115 MPH
EXPOSURE CATEGORY	C
IMPORTANCE FACTOR	1.0

SEISMIC:

SEISMIC: GROUP	I
SEISMIC DESIGN CATEGORY	B
SITE CLASSIFICATION	D

FOUNDATIONS:

1. FOUNDATIONS ARE DESIGNED FOR AN ALLOWABLE SOIL BEARING PRESSURE OF 3,000 PSF. ON EXISTING SOILS. BEFORE CONSTRUCTION COMMENCES, SOIL BEARING CAPACITY SHALL BE VERIFIED BY A SUBSURFACE INVESTIGATION, A CERTIFIED TESTING LABORATORY, WHOSE REPORT SHALL INCLUDE ANALYSIS AND RECOMMENDATIONS FOR SITE PREPARATION IN ORDER TO BEAR THE FOUNDATION LOADS. ABOVE REPORT SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW BEFORE FOUNDATION CONSTRUCTION BEGINS. COST OF REPORT SHALL BE PAID DIRECTLY BY THE CITY OF DEADWOOD. CONTRACTOR IS RESPONSIBLE FOR SCHEDULE COORDINATION.
2. BASE BID TO ASSUME ADEQUATE SUBGRADE SOILS EXIST AND MINIMAL (12" MAX DEPTH), IF ANY, SCARIFICATION, MOISTURE CONDITIONING, AND RECOMPACTION OF EXISTING SOILS BELOW FOOTINGS.

PLUMBING SLEEVES:

MINIMUM SLEEVE SPACING SHALL BE TWO DIAMETERS CENTER TO CENTER TO THE LARGER SLEEVE OR 6" CLEAR BETWEEN SLEEVES, WHICHEVER IS GREATER. PRIOR TO CONSTRUCTION SLEEVE LOCATIONS AND SIZES SHALL BE APPROVED BY THE STRUCTURAL ENGINEER OF RECORD.

PENETRATIONS:

NO PENETRATIONS SHALL BE MADE IN ANY STRUCTURAL MEMBERS OTHER THAN THOSE LOCATED ON THESE DRAWINGS WITHOUT PREVIOUS APPROVAL OF THE ENGINEER.

FORMWORK AND SHORING:

NO STRUCTURAL CONCRETE SHALL BE STRIPPED UNTIL IT HAS REACHED AT LEAST TWO-THIRDS OF THE 28 DAY DESIGN STRENGTH. DESIGN, ERECTION AND REMOVAL OF ALL FORMWORK, SHORES AND RESHORES SHALL MEET THE REQUIREMENTS SET FORTH IN ACI STANDARDS 301 AND 347.

CONCRETE MIX DESIGN:

1. SHALL BE MIX DESIGNED BY A RECOGNIZED TESTING LABORATORY TO ACHIEVE A STRENGTH AT 28 DAYS AS LISTED BELOW WITH A PLASTIC AND WORKABLE MIX:
   1. 4,000 PSI - ALL CONCRETE

CONCRETE MIX DESIGN CONTINUED:

2. SUBMIT PROPOSED MIX DESIGN WITH RECENT FIELD CYLINDER OR LAB TESTS FOR REVIEW PRIOR TO USE. MIX SHALL BE UNIQUELY IDENTIFIED BY MIX NUMBER OR OTHER POSITIVE IDENTIFICATION. CONCRETE SHALL COMPLY WITH ALL THE REQUIREMENTS OF ASTM STANDARD C94 FOR MEASURING, MIXING, TRANSPORTING, ETC. CONCRETE TICKETS SHALL BE TIME STAMPED WHEN CONCRETE IS BATCHED. THE MAXIMUM TIME ALLOWED FROM THE TIME THE MIXING WATER IS ADDED UNTIL IT IS DEPOSITED IN ITS FINAL POSITION SHALL NOT EXCEED ONE AND ONE HALF (1-1/2) HOURS. IF FOR ANY REASON THERE IS A LONGER DELAY THAN STATED ABOVE, THE CONCRETE SHALL BE DISCARDED. IT SHALL BE THE RESPONSIBILITY OF THE TESTING LAB TO NOTIFY THE OWNER'S REPRESENTATIVE AND THE CONTRACTOR OF ANY NONCOMPLIANCE WITH THE ABOVE. ALL SLABS SHALL BE CURED USING CURING COMPOUND MEETING ASTM STANDARD C309 TYPE 1 AND SHALL HAVE A FUGITIVE DYE. THE COMPOUND SHALL BE PLACED AS SOON AS THE FINISHING IS COMPLETED OR AS SOON AS THE WATER HAS LEFT THE UNFINISHED CONCRETE. ALL SCUFFED OR BROKEN AREAS IN THE CURING MEMBRANE SHALL BE RECOATED DAILY. CALCIUM CHLORIDES SHALL NOT BE UTILIZED; OTHER ADMIXTURES MAY BE USED ONLY WITH THE APPROVAL OF THE ENGINEER.
3. CONCRETE SHALL UTILIZE TYPE I/II CEMENT W/ MINIMUM 20% FLY-ASH CONTENT BY WEIGHT.
4. THE CONCRETE STRENGTHS SHOWN IN THE SECTION ABOVE AND IN THE SPECIFICATIONS ARE MINIMUM COMPRESSIVE STRENGTHS. THE ENGINEER SHALL DETERMINE IF THE CONCRETE IS ACCEPTABLE, OR TO BE REMOVED, OR TO RECEIVE SPECIAL CURING IF THE COMPRESSIVE STRENGTHS ARE LESS THAN SPECIFIED.
5. ALL CONCRETE SHALL BE AIR ENTRAINED TO 5% TO 7%.
6. WATER REDUCING AGENTS MAY BE USED IN THE CONCRETE MIX. PLASTICIZERS AND SUPER-PLASTICIZERS MAY BE USED ONLY WHEN WRITTEN PERMISSION OF THE ENGINEER IS GIVEN.
7. NO SALTS OF ANY KIND MAY BE USED IN CONCRETE BEFORE OBTAINING THE ENGINEER'S WRITTEN PERMISSION FOR THEIR USE.
8. MAXIMUM WATER TO CEMENTITIOUS MATERIAL FOR ALL CONCRETE SHALL NOT EXCEED 0.5 UNLESS NOTED OTHERWISE.
9. MAXIMUM SLUMP LIMITS:

SLAB ON GRADE	3" ±1"
FOOTINGS	4" ±1"
ALL OTHER CONCRETE	4" ±1"

CONCRETE AND REINFORCING PLACEMENT:

1. ALL CONCRETE SHALL BE PLACED IN ACCORDANCE WITH ACI 301 AND ACI 117 EXCEPT AS MODIFIED BELOW:
   A. ACI 117 ITEM 4.3.1.1 ELEVATIONS OF SLABS-ON-GRADE TOP OF SLAB ELEVATION SHALL BE WITHIN A 3/8" ENVELOPE EITHER SIDE OF THE THEORETICAL DESIGN SURFACE.
   B. ACI 117 ITEM 4.5.7 FLOOR FINISH TOLERANCES AS MEASURED BY PLACING A FREESTANDING (UNLEVELED) 10 FT. STRAIGHTEDGE ANYWHERE ON THE SLAB AND ALLOWING IT TO REST UPON TWO HIGH SPOTS WITHIN 28 DAYS AFTER SLAB CONCRETE PLACEMENT. THE GAP AT ANY POINT BETWEEN THE STRAIGHT EDGE AND THE FLOOR SHALL NOT EXCEED 1/4".
2. ALL REINFORCING STEEL TO BE ASTM A615, GRADE 60 (#4 AND LARGER), EXCEPT WHERE NOTED OTHERWISE. REINFORCING SHALL NOT BE WELDED
3. ALL REINFORCING STEEL BARS TO BE DETAILED AND PLACED IN ACCORDANCE WITH THE LATEST ACI MANUALS.
4. LAP ALL REINFORCING SPLICES IN CONCRETE A MINIMUM OF 48 BAR DIAMETERS OR 24 INCHES, WHICHEVER IS GREATER, UNLESS NOTED OTHERWISE ON DRAWINGS (CLASS B SPLICE).
5. PROVIDE FOUNDATION DOWELS AS SHOWN. MINIMUM SIZE DOWELS TO BE # 4, UNLESS OTHERWISE NOTED. ALL VERTICAL REINFORCING STEEL IN COLUMNS AND PIERS, OR VERTICAL REINFORCING IN WALLS, SHALL BE DOWELED INTO THE FOOTINGS WITH SAME SIZE AND QUANTITY DOWEL AS THE VERTICAL REINFORCING.
6. WHERE SHOWN ON THE DRAWINGS, PROVIDE WELD PLATES, WELDMENTS, OR CONCRETE INSERTS FOR FASTENING AND SECURING OTHER COMPONENTS. CONCRETE INSERTS SHALL BE FURNISHED BY THE CONTRACTOR REQUIRING THEM AND INSTALLED BY THE CONTRACTOR CASTING THE CONCRETE AROUND THEM. CLIP ANGLES SHALL BE FURNISHED BY THE CONTRACTOR REQUIRING THEM.
7. REINFORCING STEEL SHALL RECEIVE CONCRETE COVER AS FOLLOWS:

DESCRIPTION	MINIMUM COVER
CAST AGAINST & PERMANENTLY EXPOSED TO EARTH	3"
EXPOSED TO EARTH OR WEATHER	
#6 THROUGH #18 BARS	2"
#5 BARS OR SMALLER	1 1/2"
NOT EXPOSED TO EARTH OR WEATHER OR IN CONTACT WITH THE GROUND, SLABS AND WALLS	
#11 BARS OR SMALLER	3/4"
#14 AND #18	1 1/2"
BEAMS AND COLUMNS	1 1/2"
SHELLS, FOLDED PLATE MEMBERS:	
NO. 6 BAR AND LARGER	3/4"
NO. 5 BAR, W31 OR D31 WIRE AND SMALLER	1/2"

8. COLD WEATHER AND HOT WEATHER PROVISIONS OF ACI 306 AND 305 (CURRENT EDITIONS), RESPECTIVELY, SHALL BE MAINTAINED.

CONCRETE TESTING:

1. CONCRETE TESTING SHALL BE PAID FOR BY THE OWNER. TESTING LABORATORY SHALL PERFORM THE FOLLOWING TEST ON CAST-IN-PLACE CONCRETE:
   A. ASTM C143 - "STANDARD TEST METHOD FOR SLUMP OF PORTLAND CEMENT CONCRETE."
   B. ASTM C39 - "STANDARD TEST METHOD FOR COMPRESSIVE STRENGTH OF CYLINDRICAL CONCRETE SPECIMENS. A SEPARATE TEST SHALL BE CONDUCTED FOR EACH CLASS, FOR EVERY 50 CUBIC YARDS (OR FRACTION THEREOF), PLACED PER DAY. REQUIRED CYLINDER(S) QUANTITIES AND TEST AGE AS FOLLOWS:
      a. AT 7 DAYS
      b. AT 28 DAYS
   C. PROVIDE ONE ADDITIONAL RESERVE CYLINDER TO BE TESTED UNDER THE DIRECTION OF THE ENGINEER, IF REQUIRED. IF 28 DAY STRENGTH IS ACHIEVED, THE ADDITIONAL CYLINDER(S) MAY BE DISCARDED.
   D. TESTING SHALL BE BASED UPON CONCRETE TAKEN AT POINT OF PLACEMENT.
   E. IN ADDITION TO TYPICAL TESTING REQUIREMENTS, SLUMP AND AIR CONTENT SAMPLES SHALL BE TAKEN AT BEGINNING OF FIRST TRUCK PRIOR TO ANY PLACEMENT AND REPEATED AT THE MIDDLE OF FIRST TRUCK. CONCRETE PLACEMENT SHALL NOT START IF INITIAL TEST(S) FAIL AND SHALL NOT CONTINUE OF TEST TAKEN AT MIDDLE OF FIRST LOAD FAILS.
   F. IF ANY SLUMP OR AIR CONTENT FAILS DURING PLACMENT, TESTS SHALL BE IMMEDIATELY REPORTED AND RETAKEN. IF RETAKEN TESTS FAIL THEN ALL SUBSEQUENT LOADS MUST BE TESTED AT ARRIVAL AND TEST MUST SHOW COMPLIANCE PRIOR TO THE CONCRETE IN THAT TRUCK BEING ALLOWED FOR USE ON PROJECT. ALL COSTS FOR ADDITIONAL TESTING SHALL BE CREDITED TO THE OWNER.

CHEMICAL ANCHORS:

SHALL BE A POLYMER INJECTION SYSTEM SUCH AS HILTI HY-200, OR APPROVED EQUAL, INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS. INSTALLERS SHALL BE TRAINED BY THE MANUFACTURER'S REPRESENTATIVE.

ANCHOR BOLTS:

1. SHALL BE A36 THREADED ROD. PROVIDE HOT DIP GALVANIZE FINISH ON ALL ANCHOR BOLTS PERMANENTLY EXPOSED TO EXTERIOR OR IN CONTACT WITH PRESSURE TREATED LUMBER.
2. THREADED ROD EMBEDMENT DEPTH SPECIFIED IN THE DRAWINGS SHALL BE FROM TOP OF CONCRETE TO TOP OF DOUBLE NUT.

STRUCTURAL STEEL:

1. STEEL SHALL CONFORM TO ASTM A992 (Fy=50 KSI) FOR ALL W-SHAPES, AND ASTM A36 (Fy=36 KSI) FOR ALL OTHER MISCELLANEOUS SHAPES AND PLATES. STRUCTURAL TUBING SHALL CONFORM TO ASTM A500, GRADE B (Fy=46 KSI). STRUCTURAL PIPE SHALL CONFORM TO ASTM A53, GRADE B, TYPE "E" OR "S" (Fy=35 KSI).
   A. WHERE INDICATED IN DRAWINGS, "CORTEN" STEEL SHALL BE ASTM A588 OR A242.
2. STEEL SHALL CONFORM TO THE LATEST EDITION OF AISC SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS.
3. ALL SHOP CONNECTIONS TO BE WELDED (UTILIZING E70XX ELECTRODES) AND FIELD CONNECTIONS TO BE BOLTED, UNLESS OTHERWISE NOTED. STEEL TO RECEIVE ONE SHOP COAT AND ONE FIELD TOUCH UP COAT OF APPROVED PAINT, EXCEPT WHERE GALVANIZED IS INDICATED ON THE DRAWINGS.
4. WELDS FOR ALL EXPOSED STRUCTURAL STEEL SHALL BE GROUND SMOOTH UNLESS NOTED OTHERWISE.
5. ALL BOLTED CONNECTIONS SHALL CONSIST OF 3/4" DIA. (MIN.) F1852 HIGH STRENGTH BOLTS, UNLESS NOTED OTHERWISE.
   A. FAILURE OF A BOLT OR NUT DURING INSTALLATION PROCESS RESULTING IN A CRACK IN THE BOLT OR NUT SHALL BE GROUNDS FOR REJECTION OF ALL THE FAILED BOLTS OR NUTS COMING FROM THE SAME LOT. IF THE DOCUMENTATION OF THE LOT OF ORIGIN FOR THE FAILED NUT(S) OR BOLT(S) DOES NOT EXIST, OR IS NOT PROVIDED, THEN ALL OF THE BOLT(S) OR NUT(S) SHALL BE ASSUMED TO COME FROM THE LOT CONTAINING THE FAILED NUT(S) OR BOLT(S).
6. CONTRACTOR SHALL MAINTAIN ERECTION TOLERANCES OF STRUCTURAL STEEL AND ARCHITECTURALLY EXPOSED STRUCTURAL STEEL WITHIN AISC'S CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES.
7. ANCHOR BOLT HOLES IN STRUCTURAL STEEL SHALL BE OVERSIZED NO MORE THAN 1/8" MAX, UNLESS NOTED OTHERWISE.

WOOD:

1. STRUCTURAL WOOD COMPONENTS HAVE BEEN DESIGNED AS ROUGH SAWN DOUGLAS FIR #1 OR BETTER AND SHALL HAVE THE FOLLOWING MINIMUM ALLOWABLE FIBER STRESSES AND PROPERTIES:

MODULUS OF ELASTICITY (E)	1,700,000 PSI
BENDING (Fb)	1,150 PSI
SHEAR (Fv)	180 PSI

2. ALL WOOD SHALL BE TREATED WITH COPPER NAPHTHENATE, 0.075 PCF PER AWPA UC4B.
3. MEMBER SIZES SHOWN ARE ROUGH SAWN UNLESS NOTED OTHERWISE.
4. BOLTS IN WOOD ARE MACHINE BOLTS, UNLESS OTHERWISE NOTED. MACHINE BOLTS SHALL HAVE A SHANK DIAMETER WITHIN 1/16" OF THAT SPECIFIED. BOLTS ARE ASTM 307 STEEL. BOLT HOLES IN WOOD SHALL BE 1/32" OVERSIZE. WHERE STEEL IS CONNECTED TO WOOD, HOLES IN STEEL SHALL BE 1/16" OVERSIZE. PROVIDE STANDARD CUT WASHERS UNDER HEAD AND NUT WHERE BEARING IS AGAINST WOOD. WHERE STEEL SIDE PLATES ARE USED FOR CONNECTION, THE PLATE SHALL BE USED AS A TEMPLATE.

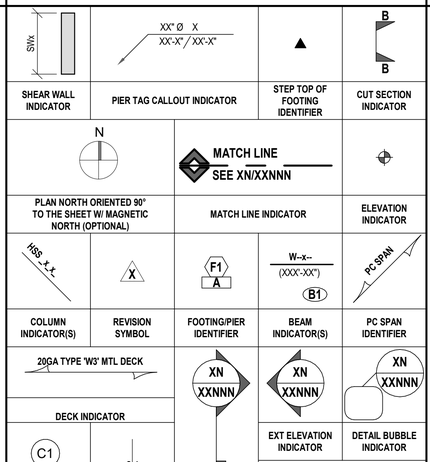
WOOD DECKING:

1. MATERIAL GRADE SHALL BE PER "WOOD" SECTION ABOVE AND SHALL BE S1S1E WITH ROUGH SIDE INSTALLED UP.
2. SCREW EACH COURSE OF DECKING WITH (2) EXTERIOR GRADE #10x4 1/2" SCREW INTO EACH SUPPORTING MEMBER.
3. ALL DECKING SHALL END ABOVE A SUPPORTING FRAMING MEMBER.
4. PROVIDE 1/8" MAX SPACE BETWEEN ADJACENT, PARALLEL WOOD DECKING PLANKS.

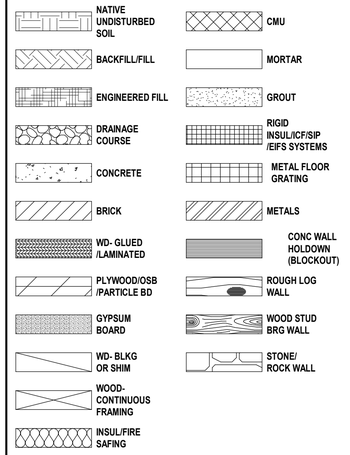
SPECIAL INSPECTION AND TESTING:

1. SEE DETAILED INSPECTION AND TESTING REQUIREMENTS AS INDICATED ON SHEET S002.

SYMBOLS LEGEND



STRUCTURAL HATCH PATTERNS



INDEX TO STRUCTURAL SHEETS

SHEET IDENTIFICATION

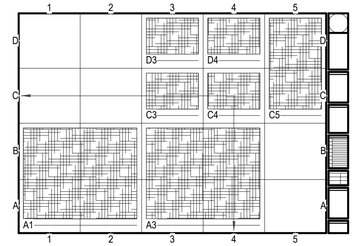
S - 5 0 1
A A N N N

DISCIPLINE CHARACTER
MODIFIER CHARACTER
SHEET SEQUENCE NUMBER 01-99
SHEET TYPE DESIGNATOR

SHEET TYPE DESIGNATORS

0 GENERAL (SYMBOLS LEGEND, NOTES, ETC)
1 PLANS (HORIZONTAL VIEWS)
2 ELEVATIONS (VERTICAL VIEWS)
3 SECTIONS (SECTIONAL VIEWS)
4 LARGE SCALE VIEWS (PLANS, ELEV, OR SECTIONS, NOT DETAILS)
5 DETAILS
6 SCHEDULES AND DIAGRAMS
7 USER DEFINED
8 USER DEFINED
9 3D REPRESENTATIONS (ISOMETRICS, PERSPECTIVES, PHOTOGRAPHS)

COORDINATE SYSTEM



REGISTERED PROFESSIONAL ENGINEER
REG. NO.
12764
JARED D. SCHIPPERS
SOUTH DAKOTA
5/14/21

3203 W. MAIN, SUITE C
RAPID CITY, SOUTH DAKOTA 57702
605.343.9606

Albertson Engineering Inc.
CONSULTANT

PROJECT IDEN:

DAYS OF '76 CROW'S NEST ADDITION

DEADWOOD, SOUTH DAKOTA

ISSUE BLOCK:

NO	ISSUE TYPE	ISSUE DATE
CD	100% CD	05/14/21

MANAGEMENT:

PROJECT NO: 17-356
DRAWN BY: MDR
CHECKED BY: JDS

SHEET TITLE:

STRUCTURAL GENERAL NOTES

SHEET IDENTIFICATION:

S001

2 OF 32

22X34 TITLE BLOCK

IBC 2018 TABLE 1705.3 REQUIRED SPECIAL INSPECTION AND TESTS OF CONCRETE CONSTRUCTION

TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	REFERENCED STANDARD[a]	IBC REFERENCE	REQUIRED ON PROJECT
1. INSPECTION REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT	-	X	ACI 318 CH 20, 25.2, 25.3, 26.6.1-26.6.3	1908.4	YES
2. REINFORCING BAR WELDING:					
A. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706.	-	X	AWS D1.4, ACI 318: 26.6.4	-	NO
B. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16".		X			
C. INSPECT ALL OTHER WELDS	X	-			
3. INSPECT ANCHORS CAST IN CONCRETE.	-	X	ACI 318: 17.8.2	-	YES
4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS.[b]					
A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS.	X		ACI 318: 17.8.2.4, ACI 318: 17.8.2	-	NO
B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4A.		X			YES
5. VERIFY USE OF REQUIRED DESIGN MIX.	-	X	ACI 318: CH. 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3	YES
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	-	ASTM C172, ASTM C31, ACI 318: 26.5, 26.12	1908.10	YES
7. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	X	-	ACI 318: 26.5	1908.6, 1908.7, 1908.8	YES
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	-	X	ACI 318: 26.5.3-26.5.5	1908.9	YES
9. INSPECT OF PRESTRESSED CONCRETE FOR:					
A. APPLICATION OF PRESTRESSING FORCES.	X	-	ACI 318: 26.10	-	NO
B. GROUTING OF BONDED PRESTRESSING TENDONS.	X	-			
10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS.	-	X	ACI 318: CH. 26.9	-	NO
11. VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES ANDFORMS FROM BEAMS AND STRUCTURAL SLABS.	-	X	ACI 318: 26.11.2	-	NO
12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	-	X	ACI 318: 26.11.1.2(b)	-	YES

a. WHERE APPLICABLE, SEE SECTION 1705.12, SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE.

b. SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSEUD BY AN APPROVED SOURCE IN ACCORDANCE WITH 17.8.2 IN ACI 318, OR OTHER QUALIFICATION PROCEDURES. WHERE SPECIFIC REQUIREMENTS ARE NOT PROVIDED, SPECIAL INSPECTION REQUIREMENTS SHALL BE SPECIFIED BY THE REGISTERED DESIGN PROFESSIONAL AND SHALL BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO THE COMMENCEMENT OF THE WORK.

WELDING OR REINFORCING BARS.
SPECIAL INSPECTIONS OF WELDING AND QUALIFICATIONS OF SPECIAL INSPECTORS FOR REINFORCING BARS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF AWS D1.4 FOR SPECIAL INSPECTION AND AWS D1.4 FOR SPECIAL INSPECTOR QUALIFICATION.

MATERIAL TESTS.
IN THE ABSENCE OF SUFFICIENT DATA OR DOCUMENTATION PROVIDING EVIDENCE OF CONFORMANCE TO QUALITY STANDARDS FOR MATERIALS IN CHAPTERS 19 AND 20 OF ACI 318, THE BUILDING OFFICIAL SHALL REQUIRE TESTING OF MATERIALS IN ACCORDANCE WITH THE APPROPRIATE STANDARDS AND CRITERIA FOR THE MATERIAL IN CHAPTERS 19 AND 20 OF ACI 318.

SPECIAL INSPECTION AND TESTING:

1. SPECIAL INSPECTION AND MINIMUM TESTING SHALL BE PERFORMED IN ACCORDANCE WITH 2006 IBC TABLES 1704.3 (STEEL), 1704.4 (CONCRETE).
2. INSPECTION SHALL BE PROVIDED BY AN INDEPENDENT TESTING AGENCY HIRED AT THE OWNER'S EXPENSE. AGENCY INSPECTION PERSONNEL SHALL MEET THE INSPECTOR QUALIFICATIONS FOR EACH MATERIAL ITEM AS INDICATED IN THE SPECIFICATIONS.
3. ANY MATERIAL OR PLACEMENT DEVIATIONS FROM MINIMUMS SHOWN ON THE DRAWINGS OR IN SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
4. IN ADDITION TO THE IBC INSPECTION TABLES, THE INSPECTOR SHALL VERIFY THAT ALL STEEL MAINTAIN ERECTION TOLERANCES OF STRUCTURAL STEEL AND ARCHITECTURALLY EXPOSED STRUCTURAL STEEL WITHIN AISC'S CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES.
5. IN ADDITION TO THE CONCRETE IBC INSPECTION TABLE, THE INSPECTOR SHALL VERIFY THAT ALL CONCRETE MAINTAIN TOLERANCES SPECIFIED IN ACI 117-90 STANDARD SPECIFICATIONS FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS.

STEEL CONSTRUCTION

TABLE N5.4-1 INSPECTION TASKS PRIOR TO WELDING

INSPECTION TASKS PRIOR TO WELDING	INSPECTION INTERVAL	REQUIRED ON PROJECT
WELDER QUALIFICATION RECORDS AND CONTINUITY RECORDS	P	YES
WELDING PROCEDURE SPECIFICATIONS (WPSs) AVAILABLE	P	YES
MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	P	YES
MATERIAL IDENTIFICATION (TYPE/GRADE)	O	YES
WELDER IDENTIFICATION SYSTEM[a]	O	YES
FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY) • JOINT PREPARATION • DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) • CLEANLINESS (CONDITION OF STEEL SURFACES) • TACKING (TACK WELD QUALITY AND LOCATION)	O	YES
FIT-UP OF CJP GROOVE WELDS OF HSS T-, Y- AND K-JOINTS WITHOUT BACKING • JOINT PREPARATIONS • DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) • CLEANLINESS (CONDITION OF STEEL SURFACES) • TACKING (TACK WELD QUALITY AND LOCATION)	P	YES
CONFIGURATION AND FINISH OF ACCESS HOLES	O	YES
FIT-UP OF FILLET WELDS • DIMENSIONS (ALIGNMENT, GAPS AT ROOT) • CLEANLINESS (CONDITION OF STEEL SURFACES) • TACKING (TACK WELD QUALITY AND LOCATION)	O	YES
CHECK WELDING EQUIPMENT	O	-

[a] THE FABRICATOR OR ERECTOR, AS APPLICABLE, SHALL MAINTAIN A SYSTEM BY WHICH A WELDER WHO HAS WELDED A JOINT OR MEMBER CAN BE IDENTIFIED. STAMPS, IF USED, SHALL BE THE LOW-STRESS TYPE.

TABLE N5.4-2 INSPECTION TASKS DURING WELDING

INSPECTION TASKS DURING WELDING	INSPECTION INTERVAL	REQUIRED ON PROJECT
USE OF QUALIFIED WELDERS	O	YES
CONTROL AND HANDLING OF WELDING CONSUMABLES • PACKAGING • EXPOSURE CONTROL	O	YES
NO WELDING OVER CRACKED TACK WELDS	O	YES
ENVIRONMENTAL CONDITIONS • WIND SPEED WITHIN LIMITS • PRECIPITATION AND TEMPERATURE	O	YES
WPS FOLLOWED • SETTINGS ON WELDING EQUIPMENT • TRAVEL SPEED • SELECTED WELDING MATERIALS • SHIELDING GAS TYPE/FLOW RATE • PREHEAT APPLIED • INTERPASS TEMPERATURE MAINTAINED (MIN/MAX) • PROPER POSITION (F, V, H, OH)	O	YES
WELDING TECHNIQUES • INTERPASS AND FINAL CLEANING • EACH PASS WITHIN PROFILE LIMITATIONS • EACH PASS MEETS QUALITY REQUIREMENTS	O	YES
PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS	P	YES

AISC 360-16 TABLE N5.4-3 INSPECTION TASKS AFTER WELDING

INSPECTION TASKS AFTER WELDING	INSPECTION INTERVAL	REQUIRED ON PROJECT
WELDS CLEANED	O	YES
SIZE, LENGTH AND LOCATION OF WELDS	P	YES
WELDS MEET VISUAL ACCEPTANCE CRITERIA: • CRACK PROHIBITION • WELD/BASE-METAL FUSION • CRATER CROSS SECTION • WELD PROFILES • WELD SIZE • UNDERCUT • POROSITY	P	YES
ARC STRIKES	P	YES
k-AREA[a]	P	YES
WELD ACCESS HOLES IN ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES[b]	P	YES
BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)	P	YES
REPAIR ACTIVITIES	O	YES
DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	O	YES
NO PROHIBITED WELDS HAVE BEEN ADDED WITHOUT THE APPROVAL OF THE EOR	O	YES

[a]WHEN WELDING OF DOUBLE PLATES, CONTINUITY PLATES OR STIFFENERS HAS BEEN PERFORMED IN THE k-AREA, VISUALLY INSPECT THE WEB k-AREA FOR CRACKS WITHIN 3" (75 mm) OF THE WELD.

(b) AFTER ROLLED HEAVY SHAPES (SEE SECTION A3.1c) AND BUILT-UP HEAVY SHAPES (SEE SECTION A3.1d) ARE WELDED, VISUALLY INSPECT THE WELD ACCESS HOLE FOR CRACKS.

AISC 360-16 TABLE N5.6-1 INSPECTION TASKS PRIOR TO BOLTING

INSPECTION TASKS PRIOR TO BOLTING	INSPECTION INTERVAL	REQUIRED ON PROJECT
MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	O	YES
FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS	O	YES
CORRECT FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO EXCLUDED FROM SHEAR PLANE)	O	YES
CORRECT BOLTING PROCEDURE SELECTED FOR JOINT DETAIL	O	YES
CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS	O	YES
PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED	P	YES
PROTECTED STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS	O	YES

AISC 360-16 TABLE N5.6-2 INSPECTION TASKS DURING BOLTING

INSPECTION TASKS DURING BOLTING	INSPECTION INTERVAL	REQUIRED ON PROJECT
FASTENER ASSEMBLIES PLACED IN ALL HOLES AND WASHERS AND NUTS ARE POSITIONED AS REQUIRED	O	YES
JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION	O	YES
FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING	O	YES
FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES	O	YES

AISC 360-16 TABLE N5.6-3 INSPECTION TASKS AFTER BOLTING

INSPECTION TASKS AFTER BOLTING	INSPECTION INTERVAL	REQUIRED ON PROJECT
DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	P	YES

- O-OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS. P-PERFORM THESE TASKS FOR EACH WELDED JOINT OR MEMBER.
- OBSERVATION OF WELDING OPERATIONS AND VISUAL INSPECTION OF IN-PROCESS AND COMPLETED WELDS SHALL BE THE PRIMARY METHOD TO CONFIRM THAT THE MATERIALS, PROCEDURES AND WORKMANSHIP ARE IN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS.
- FOR STRUCTURES IN RISK CATEGORY III/IV (ASCE/SEI 7, TABLE 1.5-1), ULTRASONIC TESTING SHALL BE PERFORMED ON ALL COMPLETE-JOINT-PENETRATION GROOVE WELDS SUBJECT TO TRANSVERSELY APPLIED TENSION LOADING IN BUTT, T- AND CORNER JOINTS, IN MATERIALS 5/16" (8 MM) THICK OR GREATER.
- FOR STRUCTURES IN RISK CATEGORY II (ASCE/SEI 7, TABLE 1.5-1), ULTRASONIC TESTING SHALL BE PERFORMED ON 10% OF COMPLETE-JOINT-PENETRATION GROOVE WELDS SUBJECT TO TRANSVERSELY APPLIED TENSION LOADING IN BUTT, T- AND CORNER JOINTS, IN MATERIALS 5/16" (8 MM) THICK OR GREATER.
- ALL NONDESTRUCTIVE TESTING OF WELDED JOINTS SHALL BE DOCUMENTED.
- SEE AISC360-16 CHAPTER N FOR ADDITIONAL WELD INSPECTION REQUIREMENTS.
- SEE AISC360-16 CHAPTER N FOR ADDITIONAL BOLT INSPECTION REQUIREMENTS.
- EXPOSED CUT SURFACES OF GALVANIZED STRUCTURAL STEEL MAIN MEMBERS AND EXPOSED CORNERS OF RECTANGULAR HSS SHALL BE VISUALLY INSPECTED FOR CRACKS SUBSEQUENT TO GALVANIZING.
- INSPECTION SHALL OCCUR DURING THE PLACEMENT OF ANCHOR RODS AND OTHER EMBEDMENTS SUPPORTING STRUCTURAL STEEL FOR COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS, INCLUDING DIAMETER, GRADE, TYPE AND LENGTH OF THE ANCHOR ROD OR EMBEDDED ITEM, AND THE EXTENT OR DEPTH OF EMBEDMENT INTO THE CONCRETE.
- FABRICATED STEEL AND ERECTED STEEL FRAMES, AS APPROPRIATE, SHALL BE INSPECTED FOR COMPLIANCE WITH THE DETAILS SHOWN ON THE CONSTRUCTION DOCUMENTS, INCLUDING BRACES, STIFFENERS, MEMBER LOCATIONS AND PROPER JOINT DETAIL APPLICATION.

IBC 2018 TABLE 1705.6 REQUIRED VERIFICATION AND INSPECTION OF SOILS

VERIFICATION AND INSPECTION TASKS	FREQUENCY OF INSPECTION		REQUIRED ON PROJECT
	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	-	X	YES
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	-	X	YES
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	-	X	YES
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X	-	YES
PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VARIFY THAT SITE HAS BEEN PREPARED PROPERLY.	-	X	YES

REGISTERED PROFESSIONAL ENGINEER
REG. NO.
12764
JARED D. SCHIPPERS
SOUTH DAKOTA
5/14/21

3200 W. MAIN, SUITE C
RAPID CITY, SOUTH DAKOTA 57702
605.343.9606
Albertson Engineering Inc.
CONSULTANT

PROJECT IDEN:

DAYS OF '76 CROW'S NEST ADDITION

DEADWOOD, SOUTH DAKOTA

ISSUE BLOCK:

NO	ISSUE TYPE	ISSUE DATE
CD	100% CD	05/14/21

MANAGEMENT:

PROJECT NO: 17-356

DRAWN BY: MDR

CHECKED BY: JDS

SHEET TITLE:

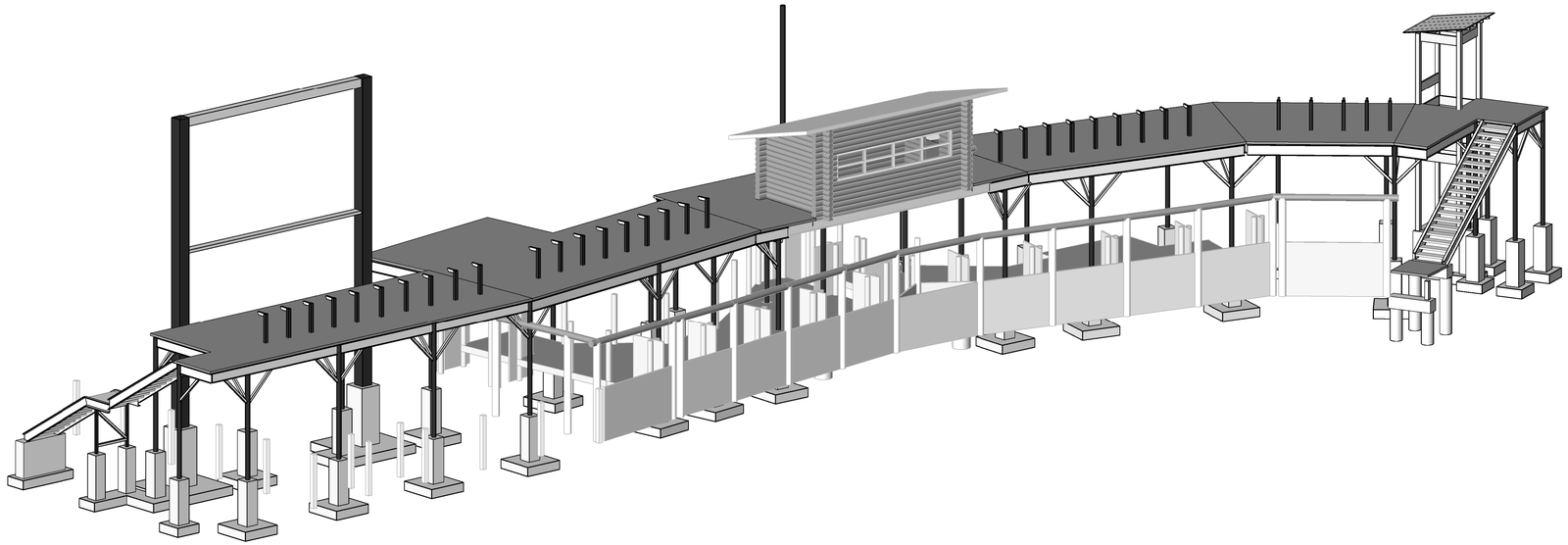
IBC INSPECTION TABLES

SHEET IDENTIFICATION:

S002

22X34 TITLE BLOCK

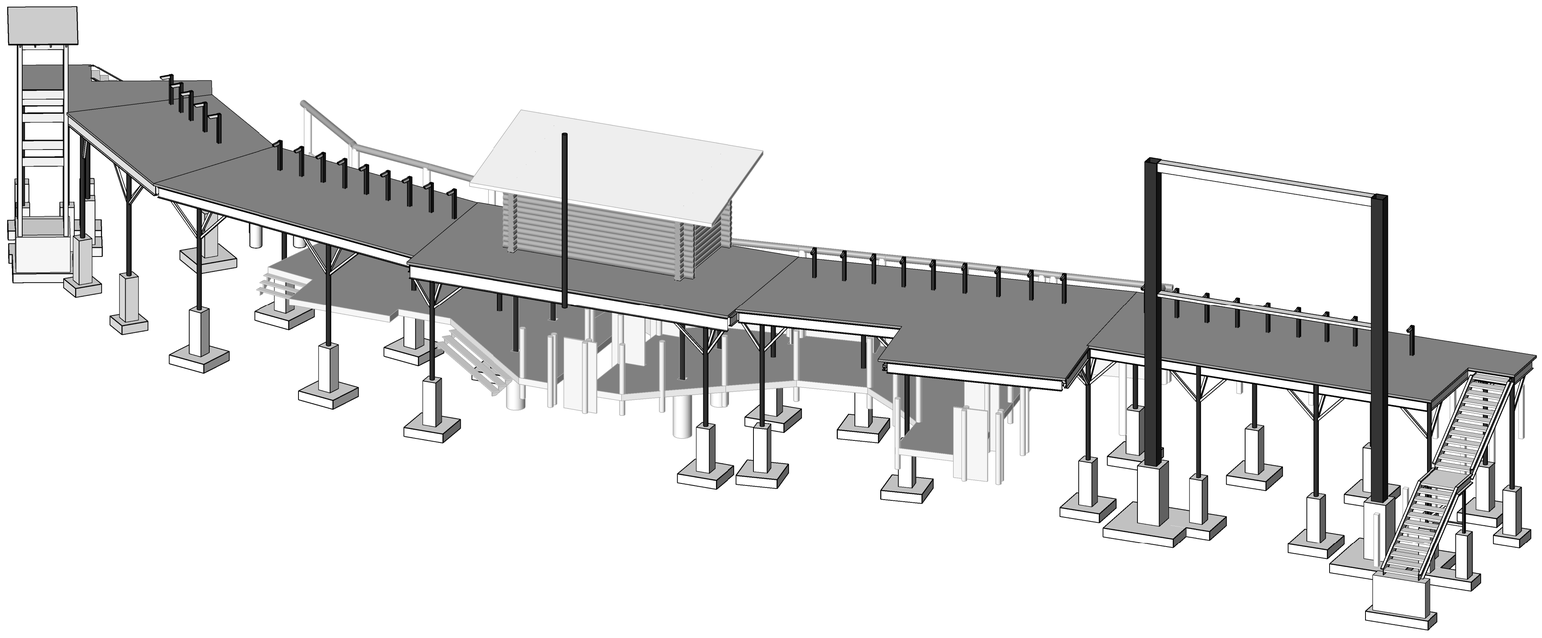
C



3D VIEW

SCALE: NTS

B



A

3D VIEW

SCALE: NTS

22X34 TITLE BLOCK

REGISTERED PROFESSIONAL ENGINEER
REG. NO.
12764
JARED D.
SCHIPPERS
SOUTH DAKOTA
5/14/21

3202 W. MAIN, SUITE C
RAPID CITY, SOUTH DAKOTA 57702
605.343.9606
Albertson Engineering Inc.
CONSULTANT

PROJECT IDEN:

DAYS OF '76 CROW'S NEST ADDITION

DEADWOOD, SOUTH DAKOTA

ISSUE BLOCK:

NO	ISSUE TYPE	ISSUE DATE
CD	100% CD	05/14/21

MANAGEMENT:

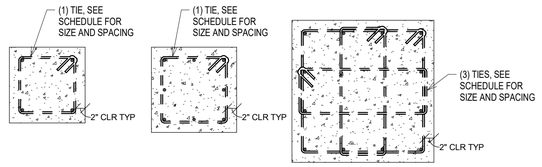
PROJECT NO: 17-356
DRAWN BY: MDR
CHECKED BY: JDS

SHEET TITLE:

3D REPRESENTATIONS

SHEET IDENTIFICATION:

S003



PIER TYPE 1 **PIER TYPE 2** **PIER TYPE 3**

CONCRETE PIER SCHEDULE

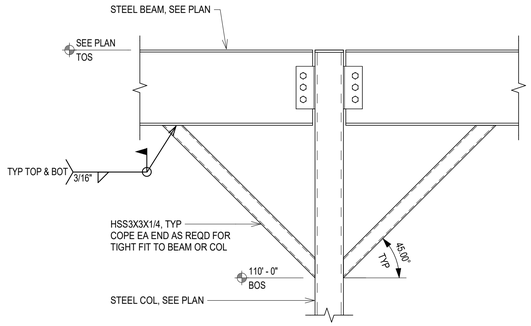
SIZE	REINFORCEMENT		REMARKS
	VERT REINF	TIE SIZE & SPACING	
16" x 16"	(4) #6	#4 @ 10" C.C.	PIER TYPE 1
18" x 18"	(8) #6	#4 @ 10" C.C.	PIER TYPE 2
30" x 30"	(12) #7	(3) #4 @ 10" C.C.	PIER TYPE 3

ADDITIONAL REMARKS:

- PROVIDE (3) #3 TIES WITHIN TOP 5" OF CONCRETE PIERS THAT RECEIVE THREADED ROD ANCHORS.

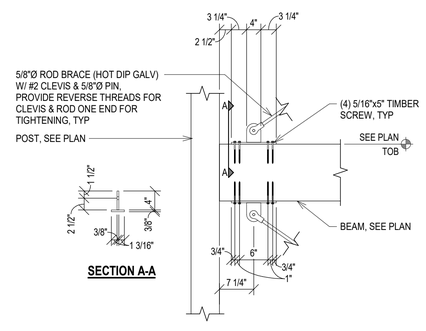
SCHEDULE - CONCRETE PIER & DIAGRAMS

SCALE: NTS



TYP DIAGONAL BRACE

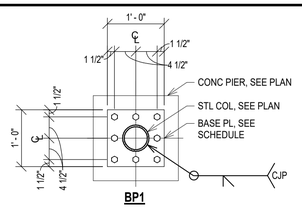
SCALE: NTS



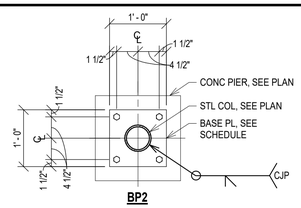
SECTION A-A

TYP X-BRACE TO BEAM DETAIL

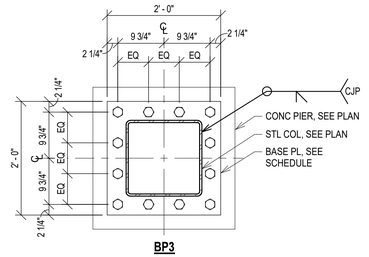
SCALE: NTS



BP1



BP2



BP3

BASE PLATE SCHEDULE

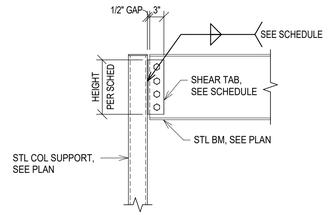
MARK	BASE PLATE	ANCHORS
BP1	12"x12"x3/4" BASE PL	(8) 3/4"Ø HOT DIPPED GALV THREADED ROD ANCHOR BOLTS (GR 36KSI) W/ 36" MIN EMBED
BP2	12"x12"x3/4" BASE PL	(4) 3/4"Ø HOT DIPPED GALV THREADED ROD ANCHOR BOLTS (GR 36KSI) W/ 18" MIN EMBED
BP3	24"x24"x1 1/2" BASE PL	(12) 1"Ø HOT DIPPED GALV THREADED ROD ANCHOR BOLTS (GR 55KSI) W/ 48" MIN EMBED

ADDITIONAL REMARKS:

- PROVIDE 1 1/2" NON-SHRINK GROUT BELOW BASE PLATES.
- PROVIDE DOUBLE NUT TOP AND BOTTOM OF THREADED ROD.

SCHEDULE - BASE PLATE SCHEDULE & DIAGRAMS

SCALE: NTS

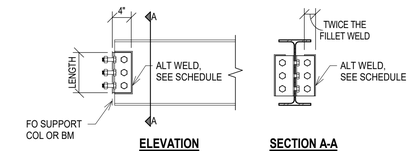


SHEAR TAB CONNECTION SCHEDULE

BEAM	HEIGHT	THICKNESS	3/4"Ø A325N BOLTS	WELD SIZE TO COL
W8	5 1/2"	3/8"	2	5/16" FILLET
W12 & 14	8 1/2"	3/8"	3	5/16" FILLET
W16	11 1/2"	3/8"	4	5/16" FILLET
W18	14 1/2"	3/8"	5	5/16" FILLET
W21	17 1/2"	3/8"	6	5/16" FILLET
W24	20 1/2"	3/8"	7	3/8" FILLET
W27	23 1/2"	3/8"	8	3/8" FILLET
W30	26 1/2"	3/8"	9	3/8" FILLET

SCHEDULE - SHEAR TAB CONNECTION

SCALE: NTS



ELEVATION **SECTION A-A**

DOUBLE ANGLE CONNECTION SCHEDULE

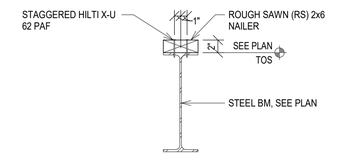
BEAM	3/4"Ø A325N BOLTS	CONNECTION ANGLES		ALTERNATE WELD TO BM SIZE (SHOP WELD ONLY)
		LENGTH	THICKNESS	
W8	2	5 1/2"	5/16"	5/16" FILLET
W12 & 14	3	8 1/2"	5/16"	5/16" FILLET
W16	4	11 1/2"	5/16"	5/16" FILLET
W18	5	14 1/2"	5/16"	5/16" FILLET
W21	6	17 1/2"	5/16"	5/16" FILLET
W24	7	20 1/2"	5/16"	5/16" FILLET
W27	8	23 1/2"	5/16"	5/16" FILLET
W30	9	26 1/2"	5/16"	5/16" FILLET

ADDITIONAL REMARKS:

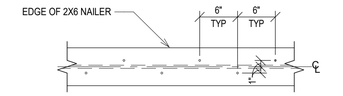
1. USE E70XX ELECTRODES.
2. SIZE & NUMBER OF BOLTS INTO SUPPORTING MEMBER TO BE TWICE THE NUMBER OF BOLTS INTO THE BEAM & OF THE SAME SIZE.

SCHEDULE - DBL ANGLE CONNECTION

SCALE: NTS



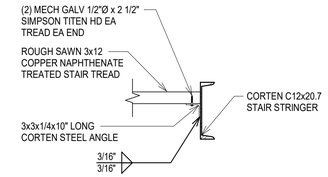
STEEL BEAM SECTION



WOOD NAILER PLAN VIEW

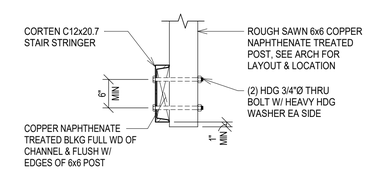
TYP WD NAILER ATOP STL BM

SCALE: NTS



TYP STAIR TREAD

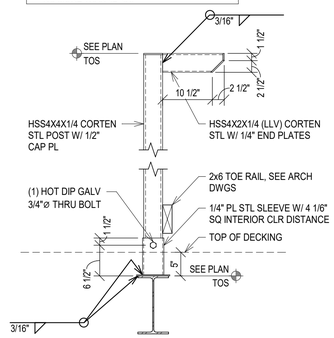
SCALE: NTS



TYP STAIR POST

SCALE: NTS

NOTES:
1. REFERENCE DETAIL 3/A611
2. SUBMIT SHOP DRAWING FOR 4x4 POST LAYOUT THAT IS COORDINATED W/ OUNTERTOP LAYOUT
3. 4x4 POSTS SHALL BE HORIZONTALLY SPACED NO MORE THAN 42" OC



TYP BAR TOP POST DETAIL

SCALE: NTS

REGISTERED PROFESSIONAL ENGINEER
REG. NO. 12764
JARED D. SCHIPPERS
SOUTH DAKOTA
5/14/21

3200 W. MAIN, SUITE C
RAPID CITY, SOUTH DAKOTA 57702
605.343.9606

Albertson Engineering Inc.

CONSULTANT

PROJECT IDEN:

DAYS OF '76 CROW'S NEST ADDITION

DEADWOOD, SOUTH DAKOTA

ISSUE BLOCK:

NO	ISSUE TYPE	ISSUE DATE
CD	100% CD	05/14/21

MANAGEMENT:

PROJECT NO: 17-356

DRAWN BY: MDR

CHECKED BY: JDS

SHEET TITLE:

STANDARD DETAILS / SCHEDULES

SHEET IDENTIFICATION:

S004

5 OF 32

22X34 TITLE BLOCK

STRUCTURAL SHEET NOTES

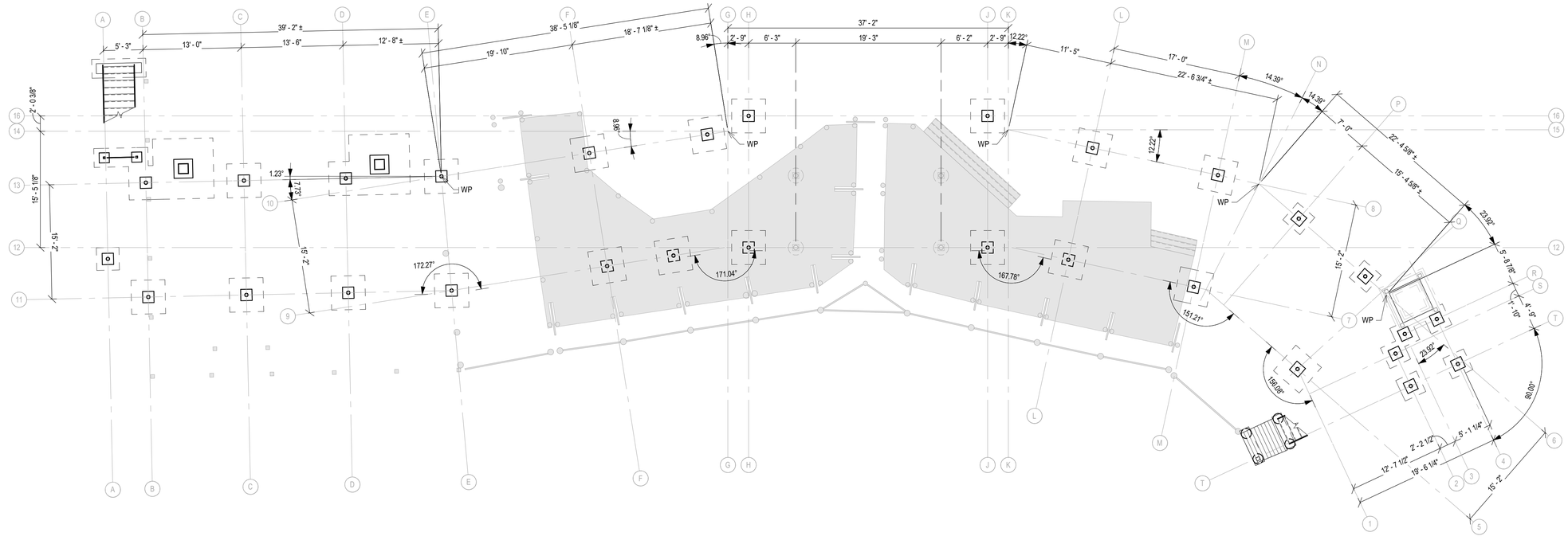
FOUNDATION & FLOOR SLAB PLAN NOTES

- SEE SHEET SERIES S001 FOR STRUCTURAL NOTES.
- VERIFY ALL DIMENSIONS & ELEVATIONS WITH ARCHITECTURAL DRAWINGS AND EXISTING CONDITIONS BEFORE CONSTRUCTION COMMENCES.
- ELEVATIONS ON THE STRUCTURAL DRAWINGS REFER TO THE TOP OF EXISTING STEEL REFERENCE ELEVATION SET AT 113'-9 1/2".
- SLAB ON GRADE CONTROL JOINTS SHALL BE TOOLED OR SAWCUT. THE JOINT PATTERN SHALL BE APPROXIMATELY SQUARE AND LIMITED TO AN AREA NOT TO EXCEED 225 S.F. JOINTS SHALL BE CUT WITHIN 8 HRS OF POURING THE SLAB.
- CENTERLINE OF FOOTING SHALL COINCIDE WITH THE FOUNDATION WALL & COLUMN CENTERLINE, UNLESS SHOWN OTHERWISE.

SCHEDULES

FOOTING SCHEDULE

MARK	FOOTING SIZE	REINFORCING	REMARKS
A	3' - 0" x 3' - 0" x 1' - 0"	(4) #5 EA WAY	CENTERED
B	4' - 6" x 4' - 6" x 1' - 0"	(5) #5 EA WAY	TOP & BOTTOM
C	8' - 0" x 8' - 0" x 1' - 0"	(8) #6 EA WAY	TOP & BOTTOM
D	2' - 6" x 1' - 0" x CONT	(3) #5 LONG WAY (6) #5 SHORT WAY	BOTTOM
E	1' - 4" x 1' - 0" x CONT	(3) #5 LONG WAY	BOTTOM



A1
SB101

FOUNDATION PLAN - OVERALL

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

N

REGISTERED PROFESSIONAL ENGINEER
REG. NO.
12764
JARED D. SCHIPPERS
SOUTH DAKOTA
5/14/21

3202 W. MAIN, SUITE C
RAPID CITY, SOUTH DAKOTA 57702
605.343.9606

Albertson Engineering Inc.

CONSULTANT

PROJECT IDEN:

DAYS OF '76 CROW'S NEST ADDITION

DEADWOOD, SOUTH DAKOTA

ISSUE BLOCK:

NO	ISSUE TYPE	ISSUE DATE
CD	100% CD	05/14/21

MANAGEMENT:

PROJECT NO: 17-356

DRAWN BY: MDR

CHECKED BY: JDS

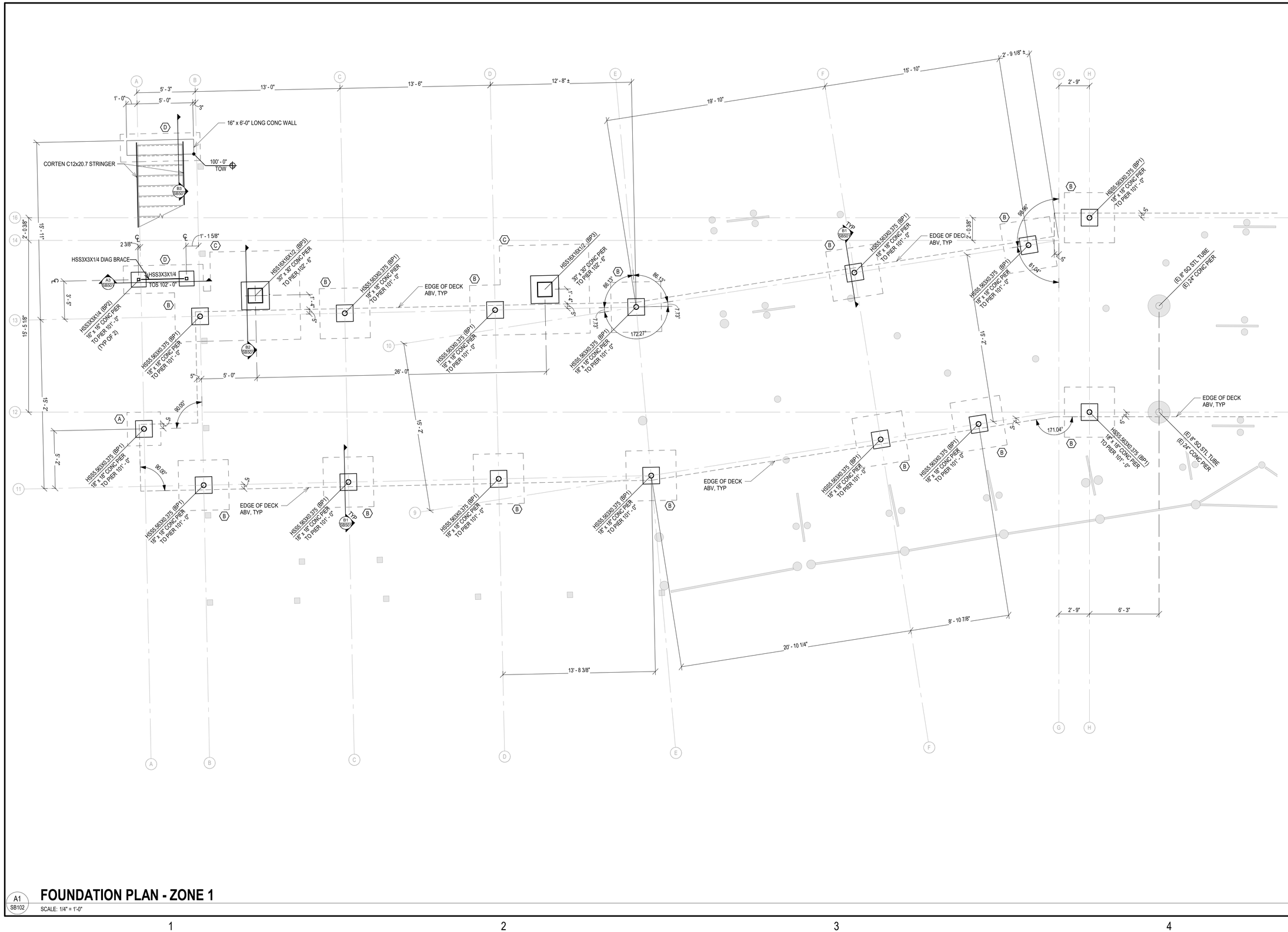
SHEET TITLE:

FOUNDATION PLAN - OVERALL

SHEET IDENTIFICATION:

SB101

22X34 TITLE BLOCK



A1
SB102

FOUNDATION PLAN - ZONE 1

SCALE: 1/4" = 1'-0"

N

REGISTERED PROFESSIONAL ENGINEER
REG. NO.
12764
JARED D. SCHIPPERS
SOUTH DAKOTA
5/14/21

3202 W. MAIN, SUITE C
RAPID CITY, SOUTH DAKOTA 57702
605.343.9606
Albertson Engineering Inc.
CONSULTANT

PROJECT IDEN:

DAYS OF '76 CROW'S NEST ADDITION

DEADWOOD, SOUTH DAKOTA

ISSUE BLOCK:

NO	ISSUE TYPE	ISSUE DATE
CD	100% CD	05/14/21

MANAGEMENT:

PROJECT NO:	17-356
DRAWN BY:	MDR
CHECKED BY:	JDS

SHEET TITLE:

FOUNDATION PLAN - ZONE 1

SHEET IDENTIFICATION:

SB102

22X34 TITLE BLOCK

A1
SB103

FOUNDATION PLAN - ZONE 2

SCALE: 1/4" = 1'-0"

REGISTERED PROFESSIONAL ENGINEER
REG. NO.
12764
JARED D.
SCHIPPERS
SOUTH DAKOTA
5/14/21

3202 W. MAIN, SUITE C
RAPID CITY, SOUTH DAKOTA 57702
605.343.9606
Albertson Engineering Inc.
CONSULTANT

PROJECT IDEN:

DAYS OF '76 CROW'S NEST ADDITION

DEADWOOD, SOUTH DAKOTA

ISSUE BLOCK:

NO	ISSUE TYPE	ISSUE DATE
CD	100% CD	05/14/21

MANAGEMENT:

PROJECT NO:	17-356
DRAWN BY:	MDR
CHECKED BY:	JDS

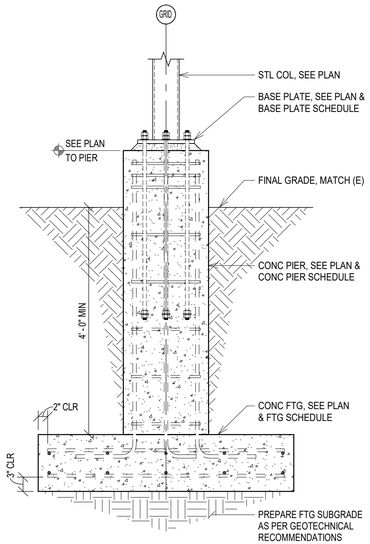
SHEET TITLE:

FOUNDATION PLAN - ZONE 2

SHEET IDENTIFICATION:

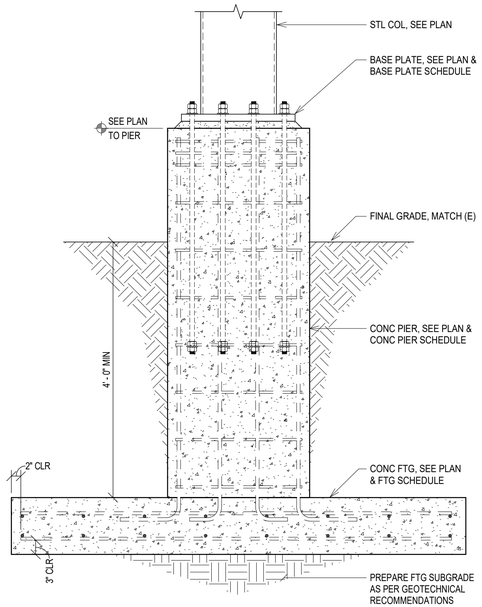
SB103

22X34 TITLE BLOCK



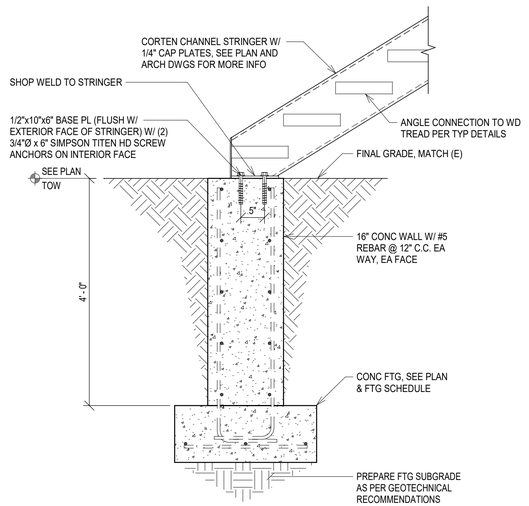
B1 SB501 **FOUNDATION DETAILS**

SCALE: 3/4" = 1'-0"



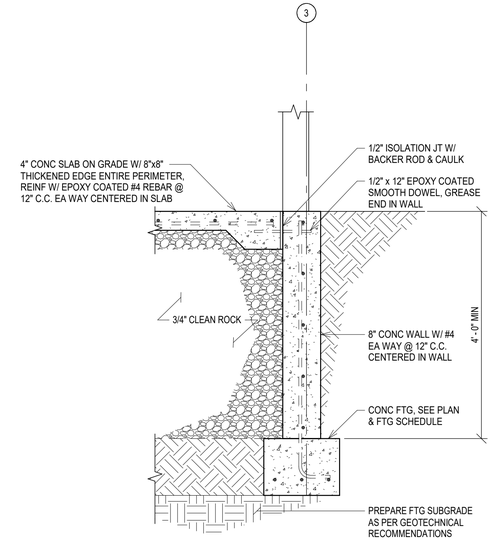
B2 SB501 **FOUNDATION DETAILS**

SCALE: 3/4" = 1'-0"



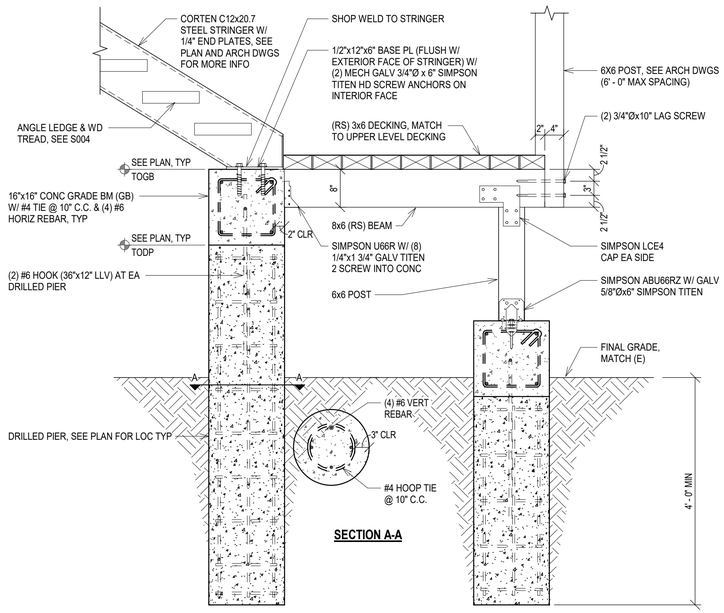
B3 SB501 **FOUNDATION DETAILS**

SCALE: 3/4" = 1'-0"



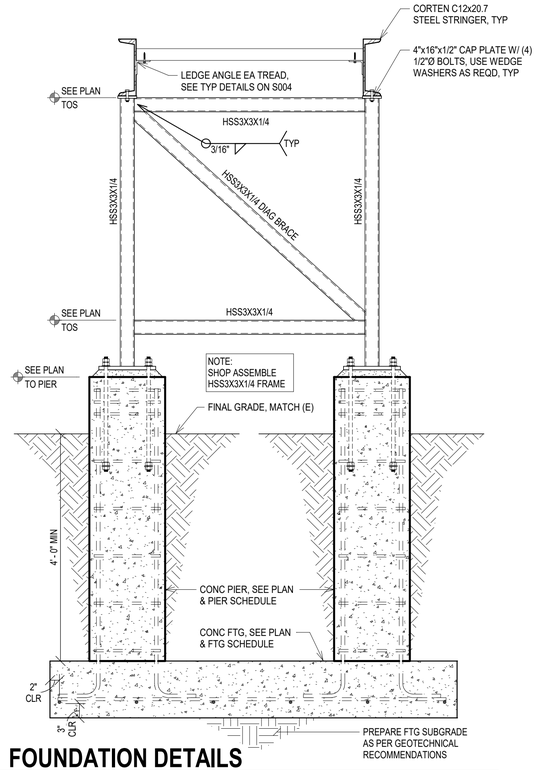
B4 SB501 **FOUNDATION DETAILS**

SCALE: 3/4" = 1'-0"



A1 SB501 **FOUNDATION DETAILS**

SCALE: 3/4" = 1'-0"



A3 SB501 **FOUNDATION DETAILS**

SCALE: 3/4" = 1'-0"

REGISTERED PROFESSIONAL ENGINEER
REG. NO.
12764
JARED D.
SCHIPPERS
SOUTH DAKOTA
5/14/21

3200 W. MAIN, SUITE C
RAPID CITY, SOUTH DAKOTA 57702
605.343.9606

Albertson Engineering Inc.

CONSULTANT

PROJECT IDEN:

DAYS OF '76 CROW'S NEST ADDITION

DEADWOOD, SOUTH DAKOTA

ISSUE BLOCK:

NO	ISSUE TYPE	ISSUE DATE
CD	100% CD	05/14/21

MANAGEMENT:

PROJECT NO: 17-356

DRAWN BY: MDR

CHECKED BY: JDS

SHEET TITLE:

DETAILS

SHEET IDENTIFICATION:

SB501

22X34 TITLE BLOCK

STRUCTURAL SHEET NOTES

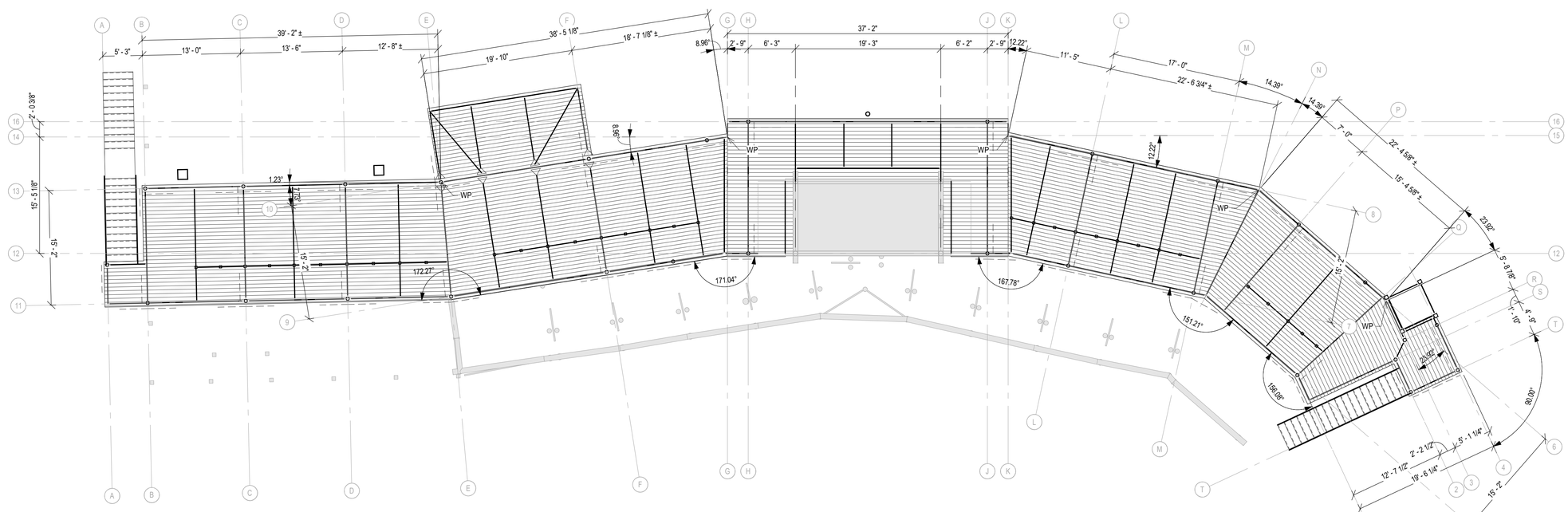
FLOOR FRAMING PLAN NOTES

- SEE SHEET SERIES S001 FOR STRUCTURAL NOTES.
- VERIFY ALL DIMENSIONS & ELEVATIONS WITH ARCHITECTURAL DRAWINGS BEFORE CONSTRUCTION COMMENCES.
- ELEVATIONS ON THE STRUCTURAL DRAWINGS REFER TO THE TOP OF EXISTING STEEL REFERENCE ELEVATION SET AT 113' - 9 1/2".
- ALL DECKING SHALL BE ROUGH SAWN DOUGLAS FIR NO 1 OR BETTER 3x6 (ACTUAL DIMENSIONS = 3" x 6")
- EACH STEEL BEAM SHALL HAVE A ROUGH SAWN 2"x6" NAILER FASTENED TO TOP OF BEAM. FASTEN W/ HILTI X-U 62 PAF @ 12" C.C., STAGGER FASTENERS OPPOSITE SIDE OF BEAM WEB.

⊘ INDICATES HSS2X2X1/4 DIAGONAL BRACE, SEE TYPICAL DETAILS FOR MORE INFORMATION

▷ DENOTES MOMENT CONNECTION

SCHEDULES



N

1 SF104 **DECK FRAMING PLAN - OVERALL**

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

REGISTERED PROFESSIONAL ENGINEER
REG. NO.
12764
JARED D. SCHIPPERS
SOUTH DAKOTA
5/14/21

3202 W. MAIN, SUITE C
RAPID CITY, SOUTH DAKOTA 57702
605.343.9606
Albertson Engineering Inc.

CONSULTANT

PROJECT IDEN:

DAYS OF '76 CROW'S NEST ADDITION

DEADWOOD, SOUTH DAKOTA

ISSUE BLOCK:

NO	ISSUE TYPE	ISSUE DATE
CD	100% CD	05/14/21

MANAGEMENT:

PROJECT NO: 17-356

DRAWN BY: MDR

CHECKED BY: JDS

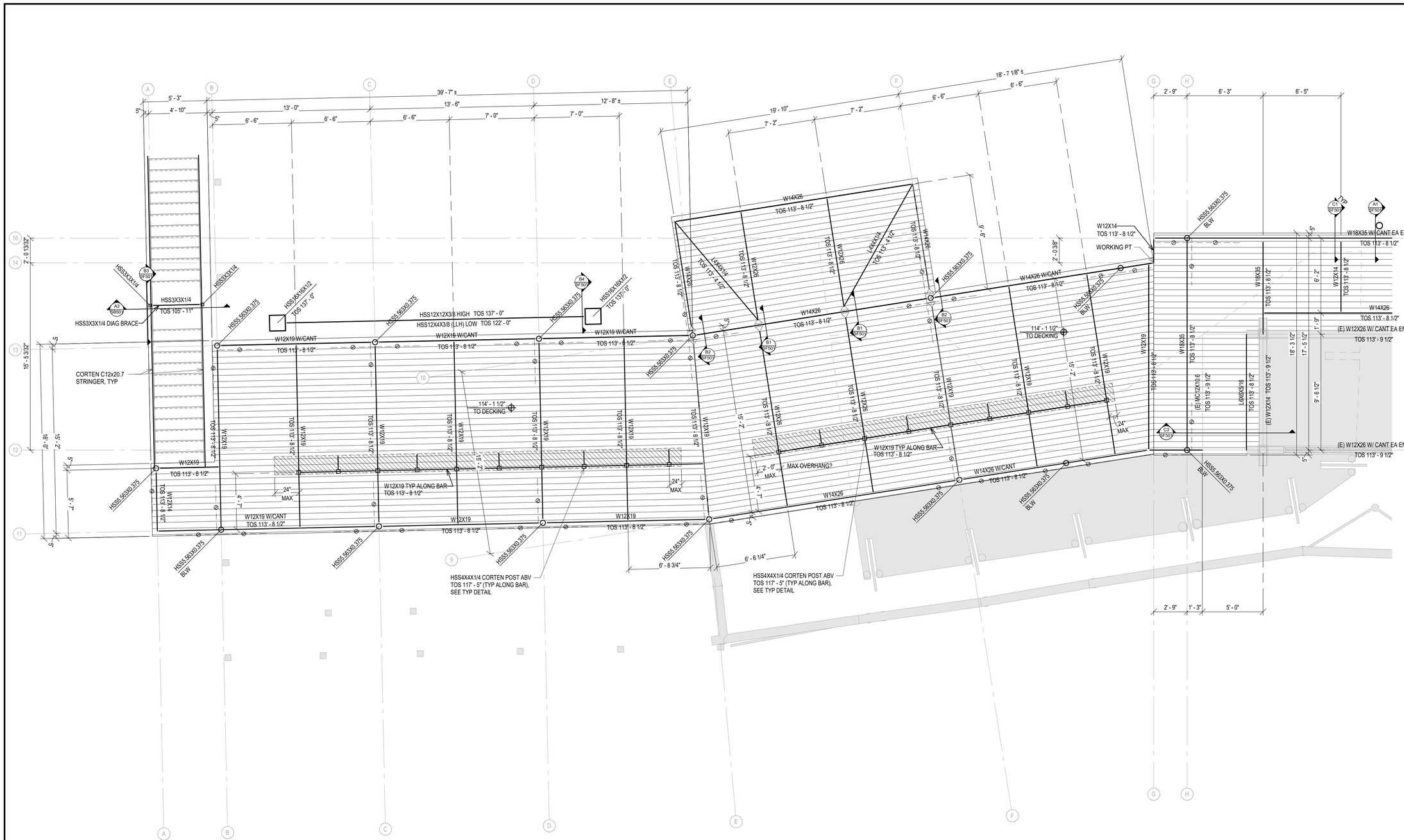
SHEET TITLE:

DECK FRAMING PLAN - OVERALL

SHEET IDENTIFICATION:

SF104

22X34 TITLE BLOCK



DECK FRAMING PLAN - ZONE 1

A1 / SF105

SCALE: 1/4" = 1'-0"

N

22X34 TITLE BLOCK

REGISTERED PROFESSIONAL ENGINEER
REG. NO.
12764
JARED D. SCHIPPERS
SOUTH DAKOTA
5/14/21

3202 W. MAIN, SUITE C
RAPID CITY, SOUTH DAKOTA 57702
605.343.9606
Albertson Engineering Inc.
CONSULTANT

PROJECT IDEN:

DAYS OF '76 CROW'S NEST ADDITION

DEADWOOD, SOUTH DAKOTA

ISSUE BLOCK:

NO	ISSUE TYPE	ISSUE DATE
CD	100% CD	05/14/21

MANAGEMENT:

PROJECT NO: 17-356

DRAWN BY: MDR

CHECKED BY: JDS

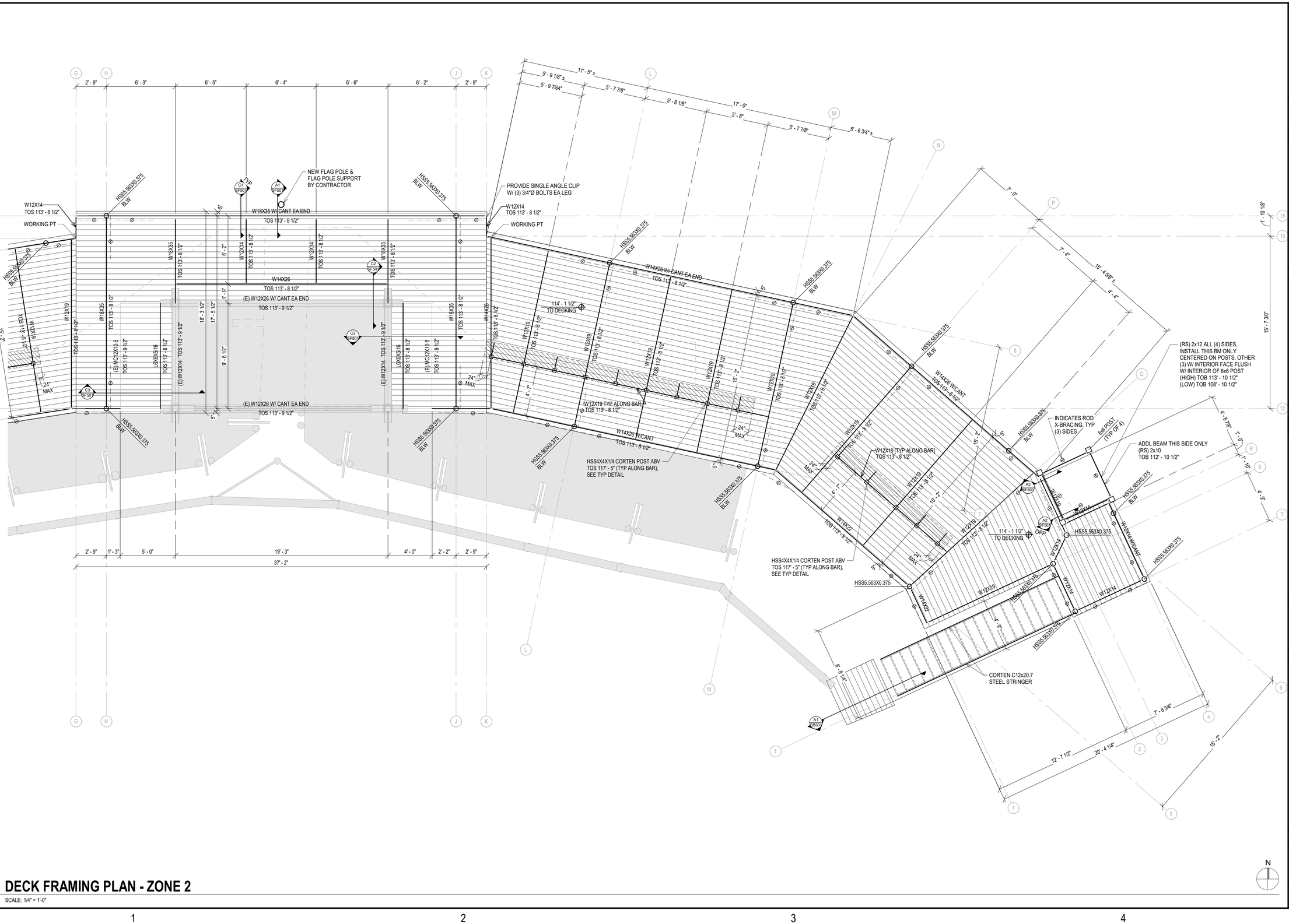
SHEET TITLE:

DECK FRAMING PLAN - ZONE 1

SHEET IDENTIFICATION:

SF105

11 OF 32



A1 SF106

DECK FRAMING PLAN - ZONE 2

SCALE: 1/4" = 1'-0"

REGISTERED PROFESSIONAL ENGINEER
REG. NO.
12764
JARED D. SCHIPPERS
SOUTH DAKOTA
5/14/21

3200 W. MAIN, SUITE C
RAPID CITY, SOUTH DAKOTA 57702
605.343.9606

Albertson Engineering Inc.

CONSULTANT

PROJECT IDEN:

DAYS OF '76 CROW'S NEST ADDITION

DEADWOOD, SOUTH DAKOTA

ISSUE BLOCK:

NO	ISSUE TYPE	ISSUE DATE
CD	100% CD	05/14/21

MANAGEMENT:

PROJECT NO:	17-356
DRAWN BY:	MDR
CHECKED BY:	JDS

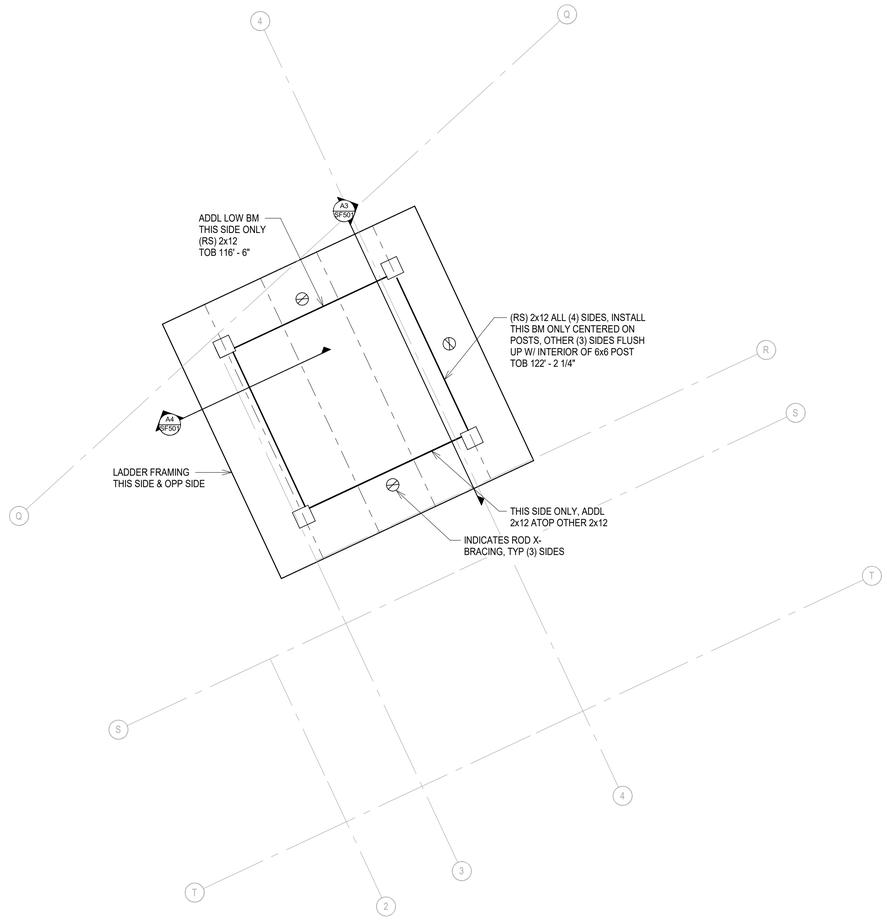
SHEET TITLE:

DECK FRAMING PLAN - ZONE 2

SHEET IDENTIFICATION:

SF106

22X34 TITLE BLOCK



A1
SF107

VERTICAL LIFT ROOF FRAMING PLAN

SCALE: 1/2" = 1'-0"

N

22X34 TITLE BLOCK

REGISTERED PROFESSIONAL ENGINEER
REG. NO.
12764
JARED D. SCHIPPERS
SOUTH DAKOTA
5/14/21

3202 W. MAIN, SUITE C
RAPID CITY, SOUTH DAKOTA 57702
605.343.9606
Albertson Engineering Inc.
CONSULTANT

PROJECT IDEN:

DAYS OF '76 CROW'S NEST ADDITION

DEADWOOD, SOUTH DAKOTA

ISSUE BLOCK:

NO	ISSUE TYPE	ISSUE DATE
CD	100% CD	05/14/21

MANAGEMENT:

PROJECT NO: 17-356
DRAWN BY: MDR
CHECKED BY: JDS

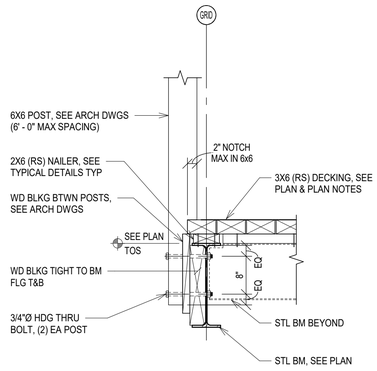
SHEET TITLE:

VERTICAL LIFT ROOF FRAMING PLAN

SHEET IDENTIFICATION:

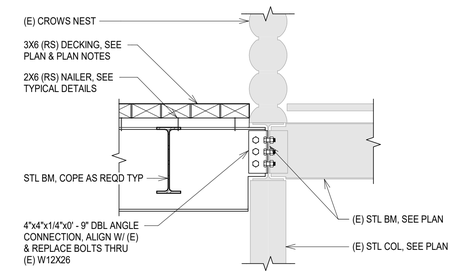
SF107

C



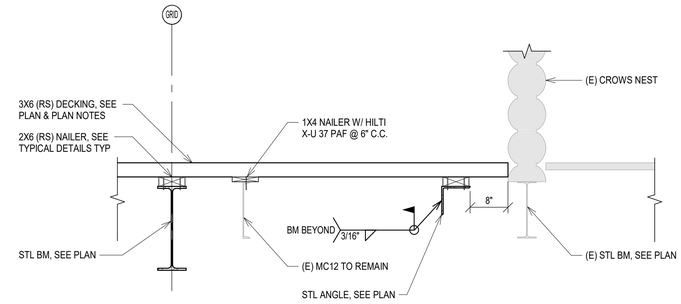
C1 SF501 **FRAMING DETAILS**

SCALE: 3/4" = 1'-0"



C2 SF501 **FRAMING DETAILS**

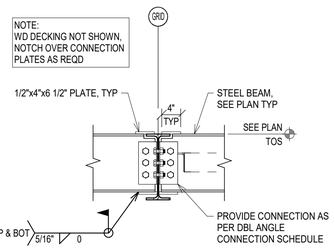
SCALE: 3/4" = 1'-0"



C3 SF501 **FRAMING DETAILS**

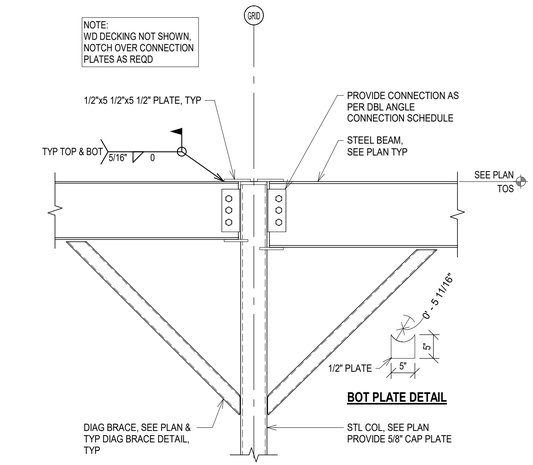
SCALE: 3/4" = 1'-0"

B



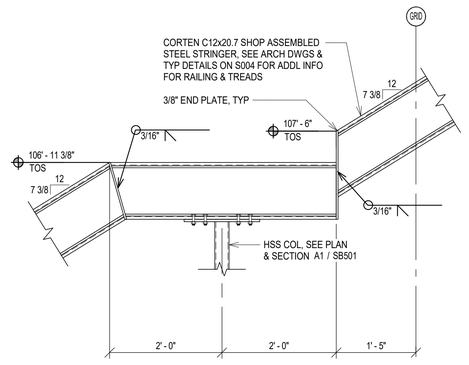
B1 SF501 **FRAMING DETAILS**

SCALE: 3/4" = 1'-0"



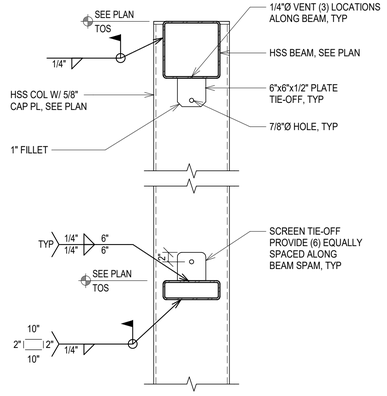
B2 SF501 **FRAMING DETAILS**

SCALE: 3/4" = 1'-0"



B3 SF501 **FRAMING DETAILS**

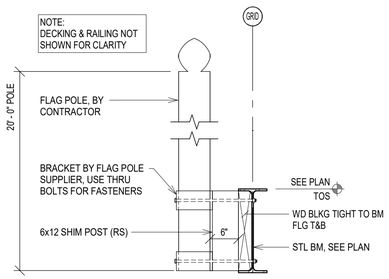
SCALE: 3/4" = 1'-0"



B4 SF501 **FRAMING DETAILS**

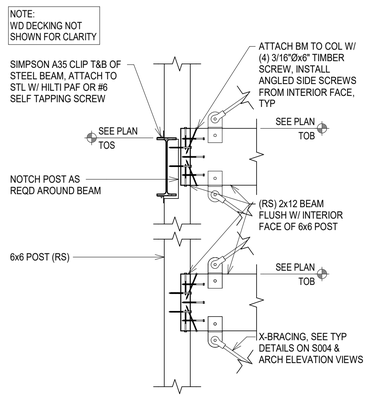
SCALE: 3/4" = 1'-0"

A



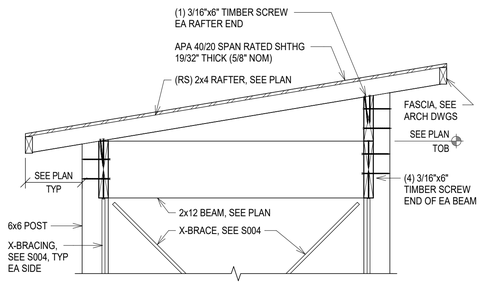
A1 SF501 **FRAMING DETAILS**

SCALE: 3/4" = 1'-0"



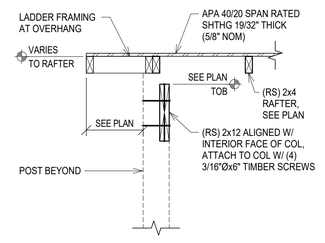
A2 SF501 **FRAMING DETAILS**

SCALE: 3/4" = 1'-0"



A3 SF501 **FRAMING DETAILS**

SCALE: 3/4" = 1'-0"



A4 SF501 **FRAMING DETAILS**

SCALE: 3/4" = 1'-0"

22X34 TITLE BLOCK

REGISTERED PROFESSIONAL ENGINEER
REG. NO.
12764
JARED D.
SCHIPPERS
SOUTH DAKOTA
5/14/21

3202 W. MAIN, SUITE C
RAPID CITY, SOUTH DAKOTA 57702
605.343.9606

Albertson Engineering Inc.
CONSULTANT

PROJECT IDEN:

DAYS OF '76 CROW'S NEST ADDITION

DEADWOOD, SOUTH DAKOTA

ISSUE BLOCK:

NO	ISSUE TYPE	ISSUE DATE
CD	100% CD	05/14/21

MANAGEMENT:

PROJECT NO: 17-356

DRAWN BY: MDR

CHECKED BY: JDS

SHEET TITLE:

DETAILS

SHEET IDENTIFICATION:

SF501

ARCHITECTURAL ABBREVIATIONS

ABV	above
ACC	accessories
AFF	above finished floor
ALT	alternate
AL	aluminum
APC	acoustical panel ceiling
ARCH	architect (ural)
ASPH	asphalt
A/C	air conditioning
BCS	baby changing station
BD	board
BLDG	building
BLKG	blocking
BO	bottom of
BRG	bearing
BTW	between
CBU	cementitious backer unit
CG	corner guard
CJ	control joint
CLG	ceiling
CLR	clear (ance)
CMU	concrete masonry unit
COL	column
CONC	concrete
CONT	continuous or continue
CORR	corridor
CPET	common path of egress travel
CPT	carpet (ed)
CSMT	casement
CT	ceramic tile
CTR	center
CWOG	center wall on grid
DBL	double
DEMO	demolish / demolition
DF	drinking fountain
DIM	dimension (s)
DIR	direction
DISP	dispenser
DN	down
DR	door
DS	downspout
DTL	detail
DWG	drawing
DWR	drawer
E	east
EA	each
EC	evaporative cooler
EG	etched glass/glazing
EIFS	exterior insul finish sys
EJ	expansion joint
EL	elevation
ELEC	electric (al)
EM	emergency
EWC	electric water cooler
EWG	end wall corner guard
EQ	equal
EXG	existing
EXH	exhaust
EXP	exposed
EXT	exterior
FBO	furnished by owner
FD	floor drain
FDN	foundation
FE	fire extinguisher
FEC	fire extinguisher cabinet
FEP	finished end panel
FFE	finished floor elevation
FIN	finish
FLG	flashing
FLR	floor (ing)
FLUR	fluorescent
FO	face of
FRMG	framing
FRP	fiber reinforced plastic
FT	foot (feet)
FTG	footing
GA	gage, gauge
GAL	gallon
GALV	galvanized
GB	grab bar
GC	general contractor
GL	glass, glazing
GWB	gypsum wallboard
GYP	gypsum
HAS	headed anchor stud
HB	hose bibb
HCP	handicap (ed)
HDR	header
HDW	hardware
HM	hollow metal
HOR	horizontal
HSS	hollow structural sections
HT	height
HVAC	heating /ventilation / air conditioning
HWD	hardwood
INCL	include (d) (ing)
INSUL	insulate (d) (ing)
INT	interior
INV	invert
JST	joist
JT	joint
L	length, angle
LAM	laminate (d)
LAV	lavatory
LB	pound
LF	lineal foot
LG	laminated glass, glazing
LIN	linoleum
LT	light
MA	match
MAS	masonry
MATL	material
MAX	maximum
MB	marker board
MECH	echanic (al)
MFR	manufacture (r) (d)
MH	manhole
MIN	minimum
MISC	miscellaneous
MLD	molding, moulding
MO	masonry opening
MT	mount (ed) (ing)
MTL	metal
N	north
N/A	not applicable
NIC	not in contract
NOM	nominal
NTS	not to scale
NECY	necessary
OC	on center (s)
OD	outside diameter
OFCI	owner furnished, contractor installed
OFD	overflow drain
OFOI	owner furnished, owner installed
OH	overhead
OL	occupant load
OLF	occupant load factor
OPG	opening
OPH	opposite hand
OPP	opposite
OSB	oriented strand board
OTS	open to structure
PB	particle board
PERF	perforate (d)
PERIM	perimeter
PLAM	plastic laminate
PLT	plate
PNL	panel
PNT	paint (ed)
PR	pair
PROJ	projector, projection
PSF	pounds per square foot
PSI	pounds per square inch
PT	pressure treated
PTD	paper towel dispenser
PTN	partition
PVC	polyvinyl chloride
PVMT	pavement
PWD	plywood
QT	quarry tile
R	riser, radius
RB	rubber base
REC	recycling
RCMD	recommend (ed) (ations)
RE	reference
REF	refrigerator
REIN	reinforce (d) (ing)
REQ	required
REV	revision (s), revised
RD	roof drain
RFG	roofing
RH	robe hook
RM	room
RO	rough opening
ROW	right of way
RR	restroom
RS	rough sawn
RTU	roof top unit
RUB	rubber
S	south
SAG	susp acoustic grid
SC	shower curtain rod & hooks
SCH	schedule
SD	soap dispenser
SHT	sheet
SHTG	sheathing
SIM	similar
SND	sanitary napkin disposal
SNV	sanitary napkin vendor
SPEC	specification
SPKR	speaker
SQ	square
SS	solid surface
SST	stainless steel
STD	standard
STL	steel
STOR	storage
STR	structural
SUSP	suspended
T	tread
TB	towel bar
TD	travel distance
TEL	telephone
T.O.	top of
TOC	top of concrete
TOS	top of steel
TOW	top of wall
TPD	toilet paper dispenser
TS	tube steel
TYP	typical
T&G	tongue and groove
UNO	unless noted otherwise
VB	vapor barrier
VCT	vinyl composition tile
VERT	vertical
VIF	verify in field
VM	vending machine
VNL	vinyl sheet
VTR	vent through roof
W	west, wide, width
W/	with
WB	wood base
WC	watercloset
WD	wood
WDW	window
WF	wide flange
WG	wire glass
W/O	without
WP	waterproof (ing)
WR	waste receptacle
WRB	weather resistive barrier
WWM	welded wire mesh

SYMBOLS

- REVISION
- TOP OF WALL 100' 0" — ELEVATION
- COLUMN GRID LOCATION
- DOOR NUMBER
- WINDOW TYPE
- CENTER LINE
- LINE OF WALL ABOVE OR HIDDEN LINE
- BREAK LINE
- MATCH LINE
- Room 101 — ROOM NAME, ROOM NUMBER
- INTERIOR WALL ELEVATION, REFERENCE DRAWING
- REFERENCED SECTION NUMBER, SHEET NUMBER
- BASIC WALL TYPE
- WALL TYPE AND PROPERTIES, SEE "WALL DESIGNATION KEY" BELOW
- REFERENCED DETAIL NUMBER, SHEET NUMBER
- ANGLE
- DIAMETER
- PERPENDICULAR
- PLATE
- PLUS OR MINUS
- FLOOR DRAIN
- FIRE EXTINGUISHER

GENERAL NOTES

1. COMPLY WITH ALL MANUFACTURERS RECOMMENDATIONS AND INDUSTRY STANDARDS RELEVANT TO THE WORK HEREIN.
2. ALL DIMENSIONS ARE FROM FACE OF FINISH UNO.
3. ALL ALIGNMENTS ARE FACE OF FINISH UNO.
4. FIELD VERIFY ALL DIMENSIONS AND ROUGH OPENINGS PRIOR TO FABRICATION AND/OR INSTALLATION.

DRAWING LIST

ARCHITECTURAL

A002	CODE CHECKLIST & LIFE SAFETY PLAN
A001	NOTES, SYMBOLS, ABBREVIATIONS AND WALL TYPES
A101	LOWER LEVEL - FLOOR PLAN
A102	UPPER LEVEL - FLOOR PLAN
A121	REFLECTED CEILING PLAN
A201	EXTERIOR ELEVATIONS
A301	ENLARGED STAIR PLANS & DETAILS
A302	ENLARGED STAIR PLANS & DETAILS
A501	BUILDING SECTIONS
A611	ARCHITECTURAL DETAILS - EXTERIORS

REGISTERED PROFESSIONAL ARCHITECT
REG. NO
9155
BRADLEY P. BURNS
SOUTH DAKOTA
5/14/2021

3202 W. MAIN, SUITE C
RAPID CITY, SOUTH DAKOTA 57702
605.343.9606
Albertson Engineering Inc.
CONSULTANT

chamberlin
725 St. Joseph Street, Suite B1
Rapid City, SD 57701
605.355.6804

PROJECT IDEN:

DAYS OF '76 CROW'S NEST ADDITION

DEADWOOD, SOUTH DAKOTA

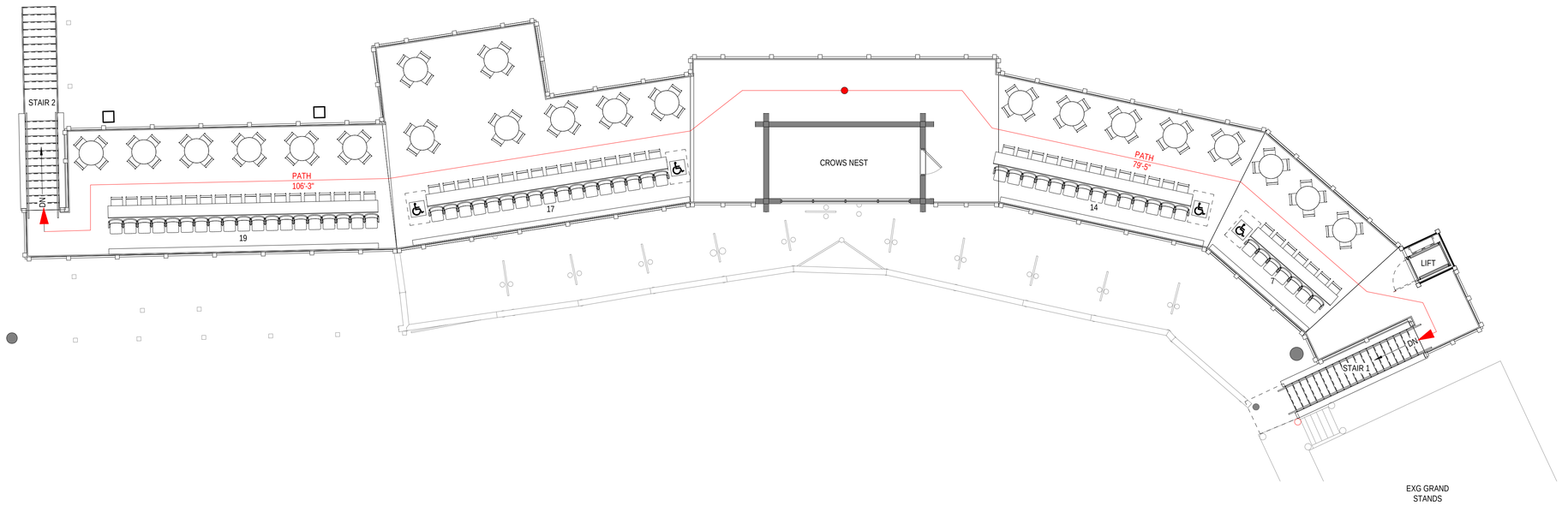
ISSUE BLOCK:

NO	ISSUE TYPE	ISSUE DATE
CD	100% CD	5.14.21

MANAGEMENT:
PROJECT NO: 1810
DRAWN BY: JL
CHECKED BY: --

SHEET TITLE:
NOTES, SYMBOLS, ABBREVIATIONS AND WALL TYPES

SHEET IDENTIFICATION:
A001



2 A002 UPPER LEVEL - LIFE SAFETY PLAN

1/8" = 1'-0"

CODE CHECKLIST

TOTAL OCCUPANT LOAD:

NUMBER OF EXITS REQUIRED FOR BUILDING (TABLE 1006.3.2):	2
OCCUPANT LOAD: UPPER LEVEL PATIO (ASSEMBLY) 2,735 SF	2,735/15 = 183
TOTAL TRIBUTARY OCCUPANT LOAD (TOL)	183
EXIT ACCESS TRAVEL DISTANCE (1017.2):	200 FEET

CODE IN USE:

2018 INTERNATIONAL BUILDING CODE (IBC)
2018 INTERNATIONAL MECHANICAL CODE (IMC)
2019 INTERNATIONAL PLUMBING CODE (IPC)
2017 NATIONAL ELECTRICAL CODE (NEC)
2018 INTERNATIONAL FIRE CODE (IFC)

TYPE OF OCCUPANCY:	GROUP A-5
TYPE OF CONSTRUCTION:	TYPE V-B
BUILDING AREA FIRST FLOOR GSF:	2,735 SQ FT
TOTAL BUILDING AREA GSF:	2,735 SQ FT
TOTAL NUMBER OF STORIES:	1
BASIC ALLOWABLE FLOOR AREA (A) (TABLE 506.2)	UNLIMITED

ALLOWABLE AREA INCREASES

AUTOMATIC SPRINKLER SYSTEM: (SECTION 506.3)	NO
	UNLIMITED
ALLOWABLE NUMBER OF STORIES: (504.4)	UNLIMITED
ALLOWABLE BUILDING HEIGHT: (504.3)	40 FEET
ALLOWABLE NUMBER OF STORYS: (504.4)	UNLIMITED

REGISTERED PROFESSIONAL ARCHITECT
REG. NO
9155
BRADLEY P. BURNS
SOUTH DAKOTA
5/14/2021

3202 W. MAIN, SUITE C
RAPID CITY, SOUTH DAKOTA 57702
605.343.9606
Albertson Engineering Inc.

CONSULTANT

chamberlin
725 St. Joseph Street, Suite B1
Rapid City, SD 57701
605.355.6804

PROJECT IDEN:

DAYS OF '76 CROW'S NEST ADDITION

DEADWOOD, SOUTH DAKOTA

ISSUE BLOCK:

NO	ISSUE TYPE	ISSUE DATE
CD		

MANAGEMENT:

PROJECT NO: 1810
DRAWN BY: Author
CHECKED BY: Checker

SHEET TITLE:

CODE CHECKLIST & LIFE SAFETY PLAN

SHEET IDENTIFICATION:

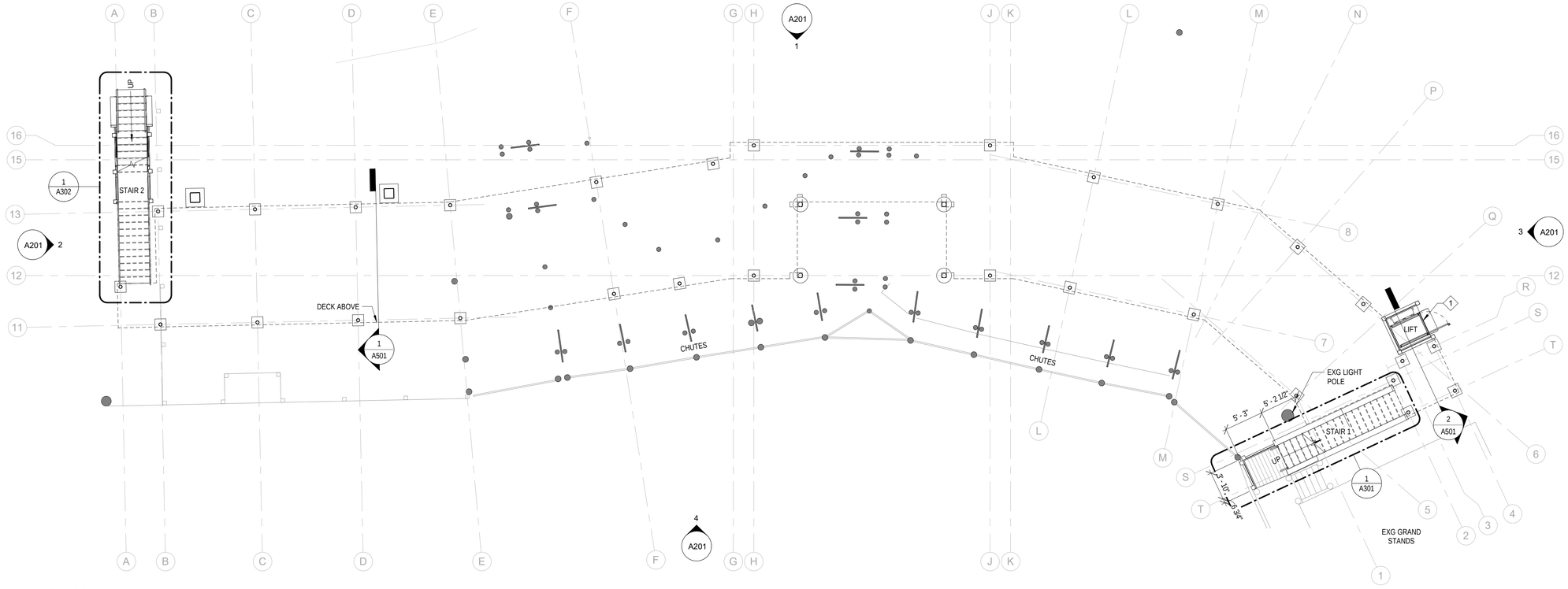
A002

GENERAL NEW CONSTRUCTION NOTES

1. DO NOT SCALE DRAWINGS. IF DIMENSIONS ARE IN QUESTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATION FROM THE ARCHITECT PRIOR TO CONTINUING CONSTRUCTION.
2. ITEMS NOT NOTED ON THE DRAWINGS SHALL BE CONSIDERED THE SAME AS NOTED ITEMS WHICH ARE GRAPHICALLY REPRESENTED IN THE SAME MANNER.

NEW CONSTRUCTION KEYED NOTES

1. VERTICAL LIFT: BRUNO INDEPENDENT LIVING AIDS, INC. VPL-3300B SERIES, 36"X48" PLATFORM; MODEL VPL=3314B. MATCH EXISTING LIFT ON GRANDSTAND FOR CONTROLS AND ACCESSORIES.
2. STADIUM SEATING; MATCH EXG AT FACILITY GRANDSTANDS



1 A101 LOWER LEVEL PLAN
1/8" = 1'-0"

LEGEND

- EXISTING WALL TO REMAIN
- EXISTING ITEM TO REMAIN
- NEW WALL
- NEW ITEM

REGISTERED PROFESSIONAL ARCHITECT
REG. NO.
9155
BRADLEY P. BURNS
SOUTH DAKOTA
5/14/2021

3202 W. MAIN, SUITE C
RAPID CITY, SOUTH DAKOTA 57702
605.343.9606
Albertson Engineering Inc.

CONSULTANT

chamberlin
725 St. Joseph Street, Suite B1
Rapid City, SD 57701
605.355.6804

PROJECT IDEN:

DAYS OF '76 CROW'S NEST ADDITION

DEADWOOD, SOUTH DAKOTA

ISSUE BLOCK:

NO	ISSUE TYPE	ISSUE DATE
CD	100% CD	5.14.21

MANAGEMENT:

PROJECT NO: 1810
DRAWN BY: JL
CHECKED BY: --

SHEET TITLE:

LOWER LEVEL - FLOOR PLAN

SHEET IDENTIFICATION:

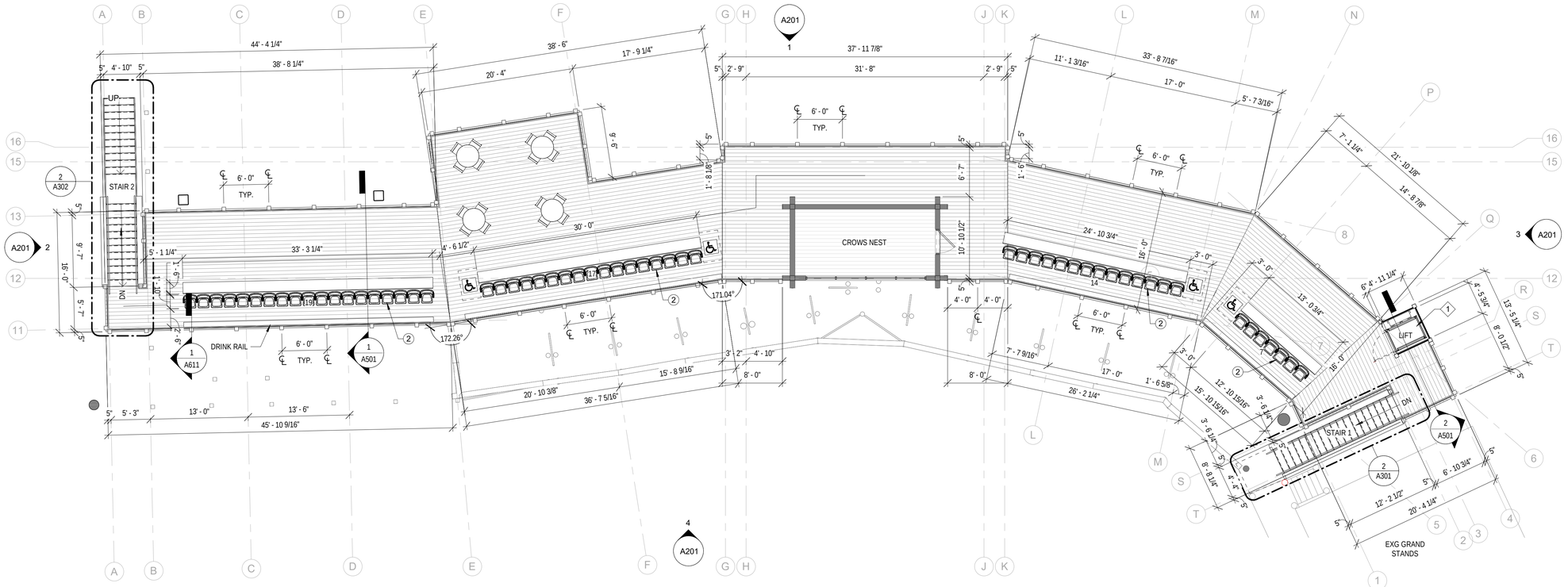
A101

GENERAL NEW CONSTRUCTION NOTES

1. DO NOT SCALE DRAWINGS. IF DIMENSIONS ARE IN QUESTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATION FROM THE ARCHITECT PRIOR TO CONTINUING CONSTRUCTION.
2. ITEMS NOT NOTED ON THE DRAWINGS SHALL BE CONSIDERED THE SAME AS NOTED ITEMS WHICH ARE GRAPHICALLY REPRESENTED IN THE SAME MANNER.

(#) NEW CONSTRUCTION KEYED NOTES

1. VERTICAL LIFT: BRUNO INDEPENDENT LIVING AIDS, INC. VPL-3300B SERIES, 36"X48" PLATFORM; MODEL VPL=3314B. MATCH EXISTING LIFT ON GRANDSTAND FOR CONTROLS AND ACCESSORIES.
2. STADIUM SEATING; MATCH EXG AT FACILITY GRANDSTANDS



1 A102 UPPER LEVEL PLAN

1/8" = 1'-0"

LEGEND

- EXISTING WALL TO REMAIN
- EXISTING ITEM TO REMAIN
- NEW WALL
- NEW ITEM

REGISTERED PROFESSIONAL ARCHITECT
REG. NO.
9155
BRADLEY P. BURNS
SOUTH DAKOTA
5/14/2021

3202 W. MAIN, SUITE C
RAPID CITY, SOUTH DAKOTA 57702
605.343.9606
Albertson Engineering Inc.
CONSULTANT

chamberlin
725 St. Joseph Street, Suite B1
Rapid City, SD 57701
605.355.6804

PROJECT IDEN:

DAYS OF '76 CROW'S NEST ADDITION

DEADWOOD, SOUTH DAKOTA

ISSUE BLOCK:

NO	ISSUE TYPE	ISSUE DATE
CD	100% CD	5.14.21

MANAGEMENT:

PROJECT NO: 1810

DRAWN BY: JL

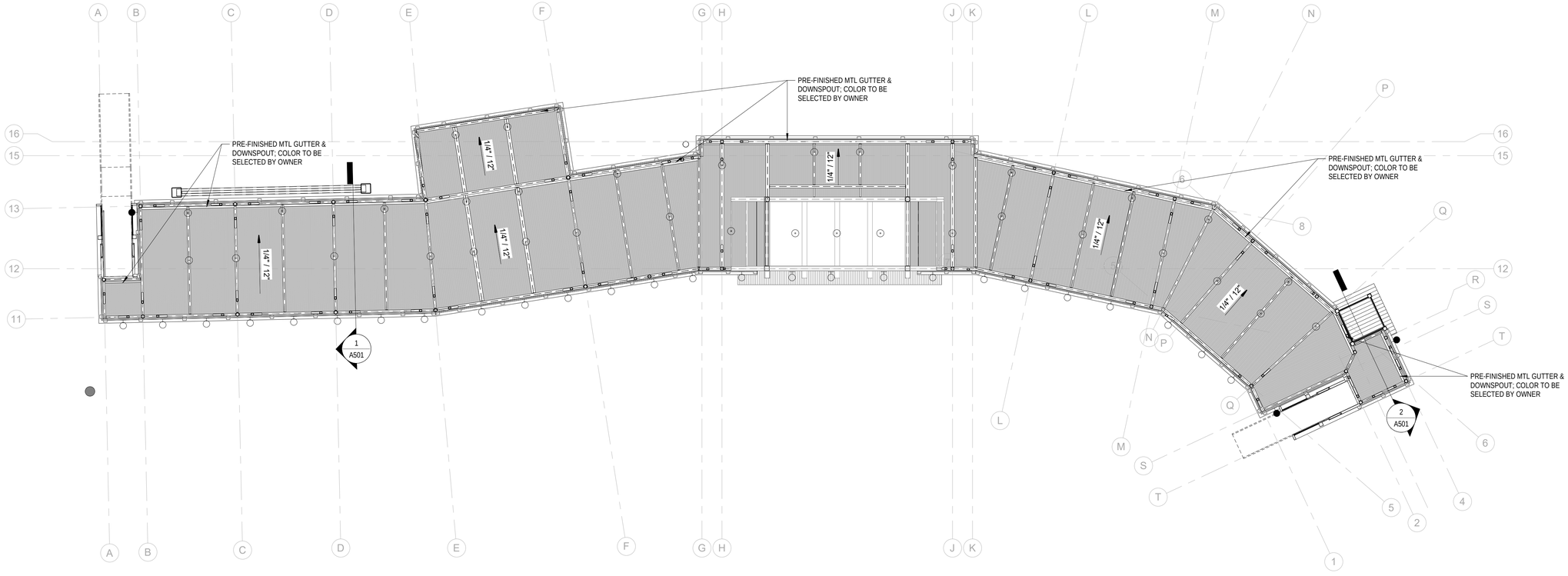
CHECKED BY: --

SHEET TITLE:

UPPER LEVEL - FLOOR PLAN

SHEET IDENTIFICATION:

A102



1 A121 REFLECTED CEILING PLAN

1/8" = 1'-0"

LEGEND

7/8" CORRUGATED METAL PANEL; COLRO TO BE SELECTED BY OWNER	NOTE: CENTER LIGHT FIXTURES IN SPACE AS SHOWN ON REFLECTED CEILING PLANS WHEN LIGHT FIXTURES ARE NOT DIMENSIONED. (TYP)
PENDANT, RE: ELEC	
WALL SCONCE, RE: ELEC	

REGISTERED PROFESSIONAL ARCHITECT
REG. NO.
9155
BRADLEY P. BURNS
SOUTH DAKOTA
5/14/2021

3202 W. MAIN, SUITE C
RAPID CITY, SOUTH DAKOTA 57702
605.343.9606

Albertson Engineering Inc.

CONSULTANT

chamberlin
725 St. Joseph Street, Suite B1
Rapid City, SD 57701
605.355.6804

PROJECT IDEN:

DAYS OF '76 CROW'S NEST ADDITION

DEADWOOD, SOUTH DAKOTA

ISSUE BLOCK:

NO	ISSUE TYPE	ISSUE DATE
CD	100% CD	5.14.21

MANAGEMENT:

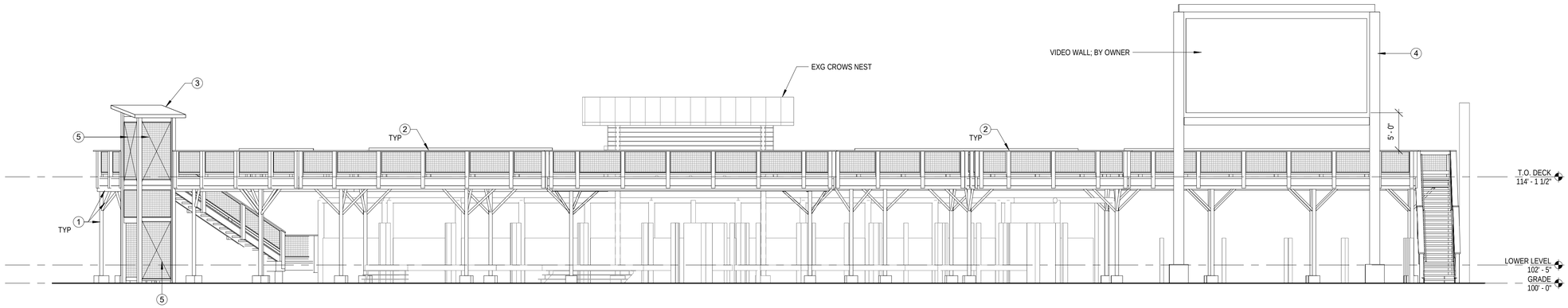
PROJECT NO: 1810
DRAWN BY: JL
CHECKED BY: --

SHEET TITLE:

REFLECTED CEILING PLAN

SHEET IDENTIFICATION:

A121

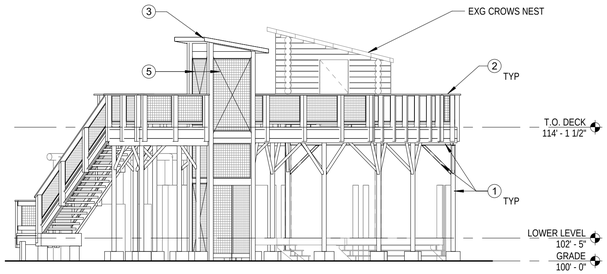


1 A201 EAST EXTERIOR ELEVATION

1/8" = 1'-0"

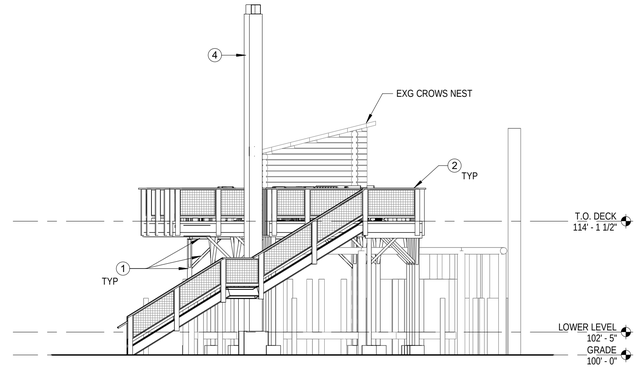
EXTERIOR ELEVATION KEYED NOTES

1. STL COLUMN; RE: STR; PNT (MATCH EXG STL AT CROWS NEST).
2. GUARDRAIL; RE: DETAIL 2/A611
3. STANDING SEAM MTL ROOF; MATCH CROWS NEST FOR COLOR & PROFILE.
4. VIDEO WALL STRUCTURE; RE: STR; PNT(MATCH EXG STL AT CROWS NEST).
5. CORTEN STL CROSS BRACING; RE: STR; WEATHERED FINIISH.



3 A201 SOUTH EXTERIOR ELEVATION

1/8" = 1'-0"



2 A201 NORTH EXTERIOR ELEVATION

1/8" = 1'-0"

4 A201 WEST EXTERIOR ELEVATION

1/8" = 1'-0"

REGISTERED PROFESSIONAL ARCHITECT
REG. NO.
9155
BRADLEY P. BURNS
SOUTH DAKOTA
5/14/2021

3202 W. MAIN, SUITE C
RAPID CITY, SOUTH DAKOTA 57702
605.343.9606
Albertson Engineering Inc.

CONSULTANT

chamberlin
725 St. Joseph Street, Suite B1
Rapid City, SD 57701
605.355.6804

PROJECT IDEN:

DAYS OF '76 CROW'S NEST ADDITION

DEADWOOD, SOUTH DAKOTA

ISSUE BLOCK:

NO	ISSUE TYPE	ISSUE DATE
CD	100% CD	5.14.21

MANAGEMENT:

PROJECT NO: 1810

DRAWN BY: JL

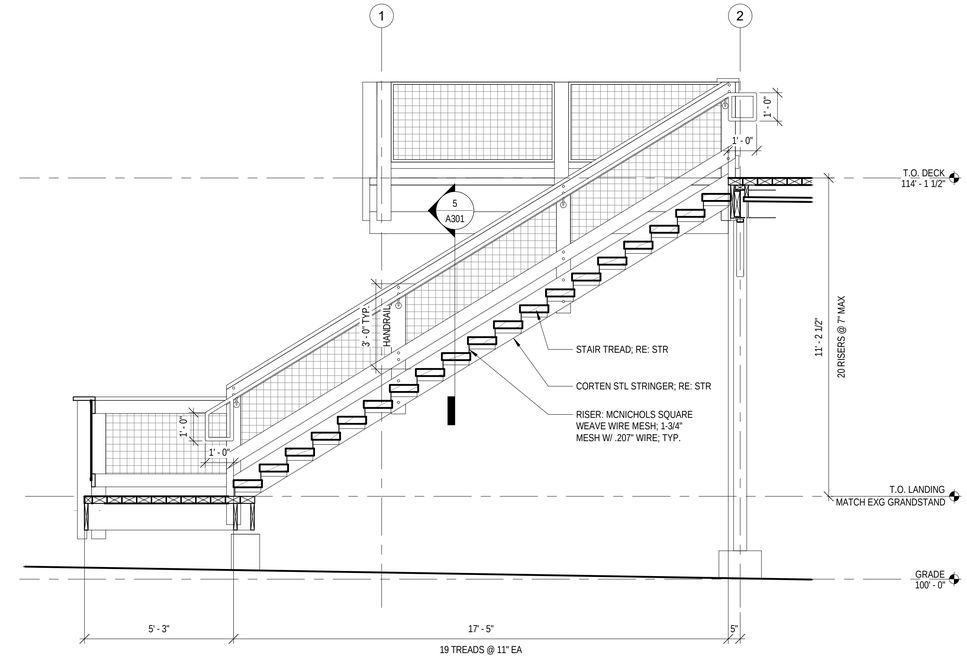
CHECKED BY: --

SHEET TITLE:

EXTERIOR ELEVATIONS

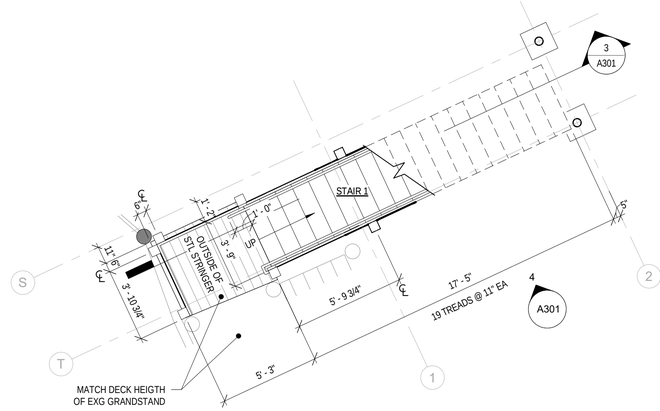
SHEET IDENTIFICATION:

A201



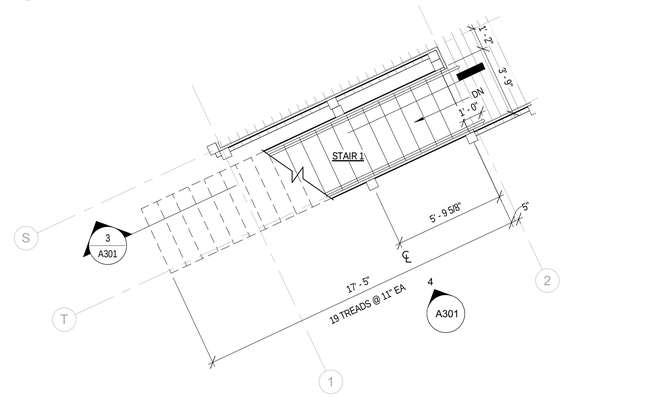
3 A301 STAIR 1 SECTION

3/8" = 1'-0"



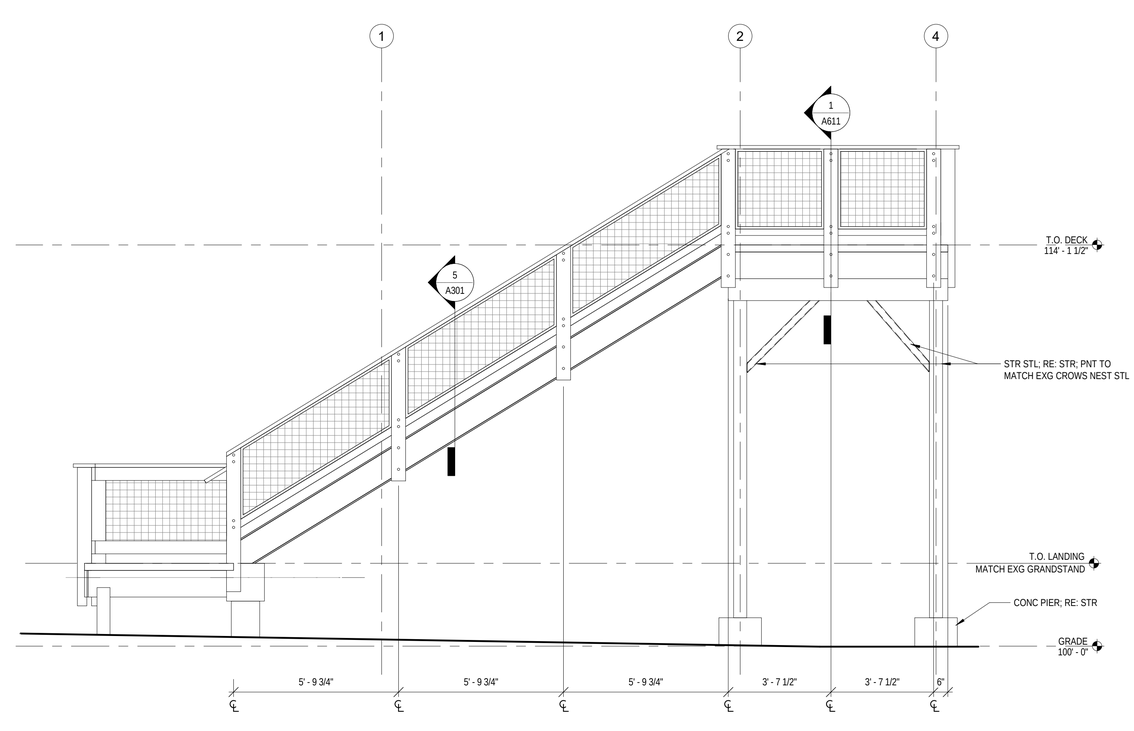
1 A301 LOWER LEVEL - STAIR 1 - ENLARGED PLAN

1/4" = 1'-0"



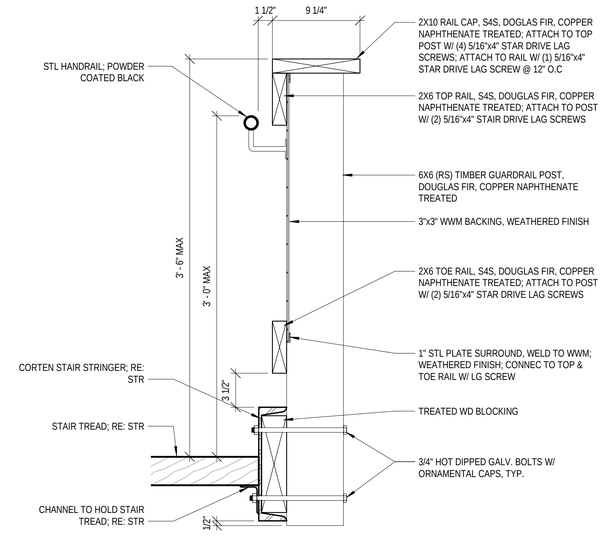
2 A301 UPPER LEVEL - STAIR 1 - ENLARGED PLAN

1/4" = 1'-0"



4 A301 STAIR 1 ELEVATION

3/8" = 1'-0"



5 A301 TYP. STAIR GUARDRAIL DETAIL

1 1/2" = 1'-0"

REGISTERED PROFESSIONAL ARCHITECT
REG. NO
9155
BRADLEY P. BURNS
SOUTH DAKOTA
5/14/2021

3202 W. MAIN, SUITE C
RAPID CITY, SOUTH DAKOTA 57702
605.343.9606
Albertson Engineering Inc.

CONSULTANT

chamberlin
725 St. Joseph Street, Suite B1
Rapid City, SD 57701
605.355.6804

PROJECT IDEN:

DAYS OF '76 CROW'S NEST ADDITION

DEADWOOD, SOUTH DAKOTA

ISSUE BLOCK:

NO	ISSUE TYPE	ISSUE DATE
CD	100% CD	5.14.21

MANAGEMENT:

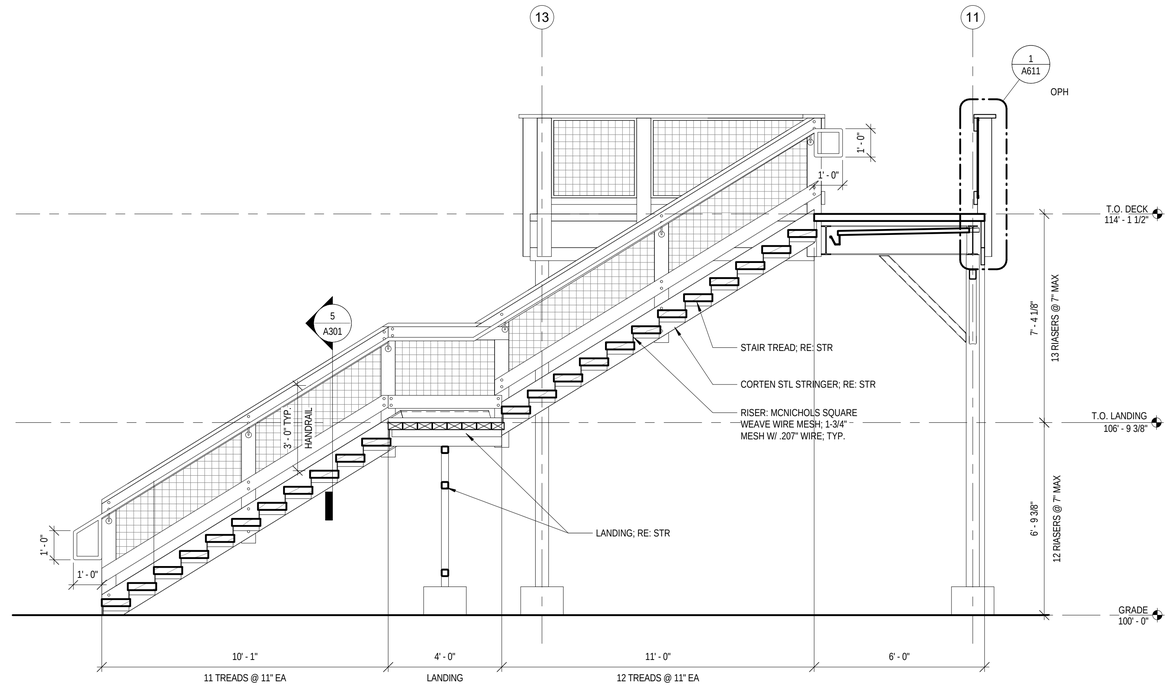
PROJECT NO: 1810
DRAWN BY: JL
CHECKED BY: --

SHEET TITLE:

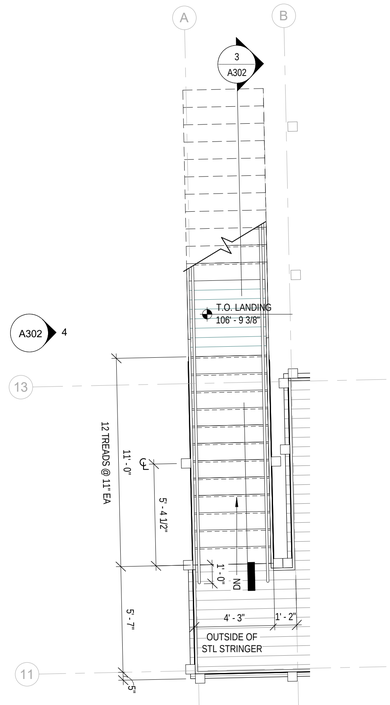
ENLARGED STAIR PLANS & DETAILS

SHEET IDENTIFICATION:

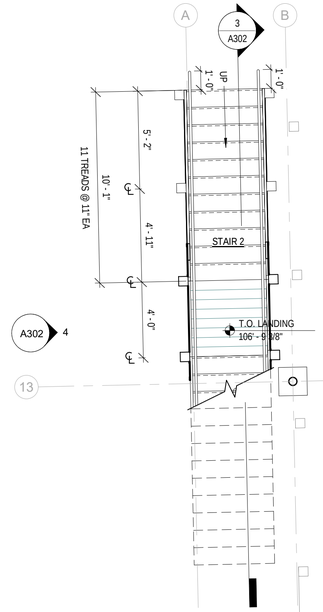
A301



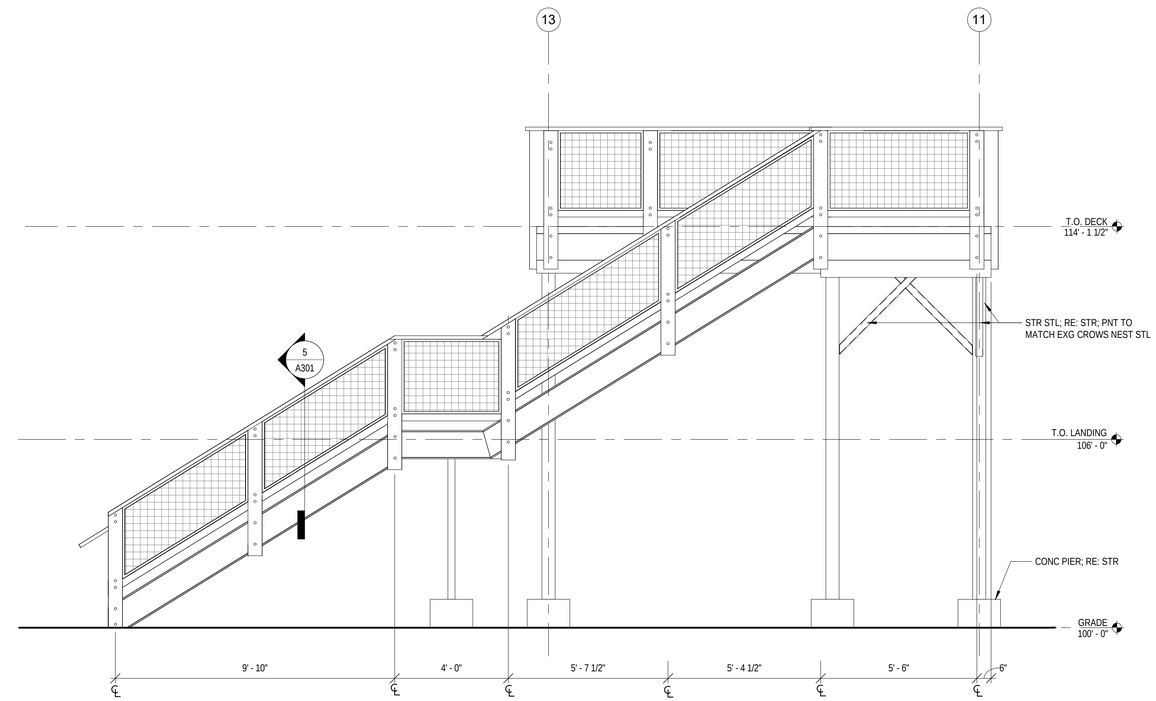
3 A302 STAIR 2 SECTION
3/8" = 1'-0"



2 A302 UPPER LEVEL - STAIR 2 - ENLARGED PLAN
1/4" = 1'-0"



1 A302 LOWER LEVEL - STAIR 2 - ENLARGED PLAN
1/4" = 1'-0"



4 A302 STAIR 2 ELEVATION
3/8" = 1'-0"

REGISTERED PROFESSIONAL ARCHITECT
REG. NO
9155
BRADLEY P.
BURNS
SOUTH DAKOTA
5/14/2021

3202 W. MAIN, SUITE C
RAPID CITY, SOUTH DAKOTA 57702
605.343.9606
Albertson Engineering Inc.

CONSULTANT
chamberlin
725 St. Joseph Street, Suite B1
Rapid City, SD 57701
605.355.6804

PROJECT IDEN:
DAYS OF '76 CROW'S NEST ADDITION
DEADWOOD, SOUTH DAKOTA

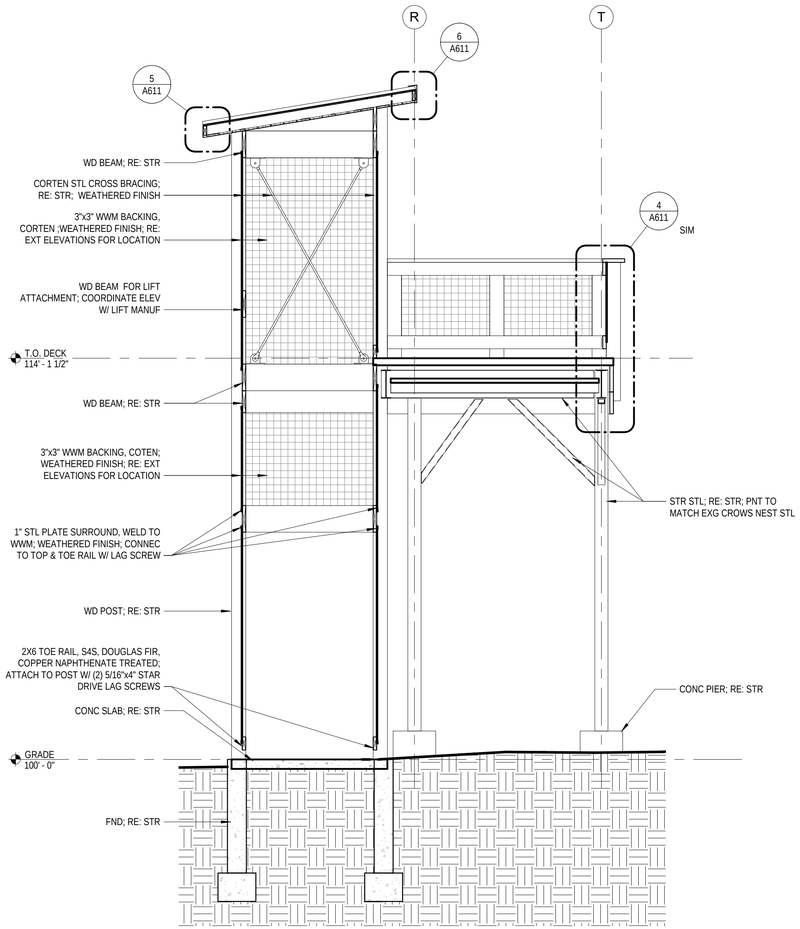
ISSUE BLOCK:

NO	ISSUE TYPE	ISSUE DATE
CD	100% CD	5.14.21

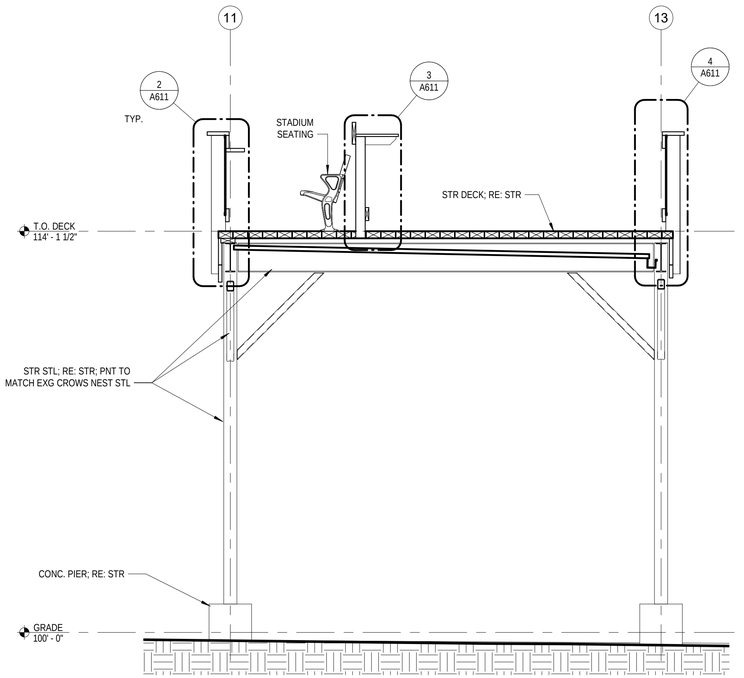
MANAGEMENT:
PROJECT NO: 1810
DRAWN BY: JL
CHECKED BY: --

SHEET TITLE:
ENLARGED STAIR PLANS & DETAILS

SHEET IDENTIFICATION:
A302



2 A501 DECK SECTION 2
3/8" = 1'-0"



1 A501 DECK SECTION 1
3/8" = 1'-0"

REGISTERED PROFESSIONAL ARCHITECT
REG. NO
9155
BRADLEY P.
BURNS
SOUTH DAKOTA
5/14/2021

3202 W. MAIN, SUITE C
RAPID CITY, SOUTH DAKOTA 57702
605.343.9606
Albertson Engineering Inc.
CONSULTANT

chamberlin
725 St. Joseph Street, Suite B1
Rapid City, SD 57701
605.355.6804

PROJECT IDEN:

DAYS OF '76 CROW'S NEST ADDITION

DEADWOOD, SOUTH DAKOTA

ISSUE BLOCK:

NO	ISSUE TYPE	ISSUE DATE
CD	100% CD	5.14.21

MANAGEMENT:

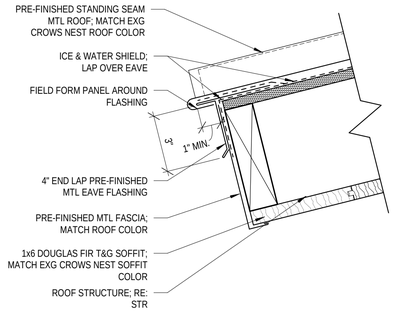
PROJECT NO: 1810
DRAWN BY: JL
CHECKED BY: --

SHEET TITLE:

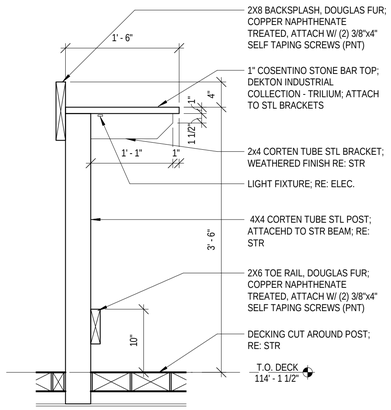
BUILDING SECTIONS

SHEET IDENTIFICATION:

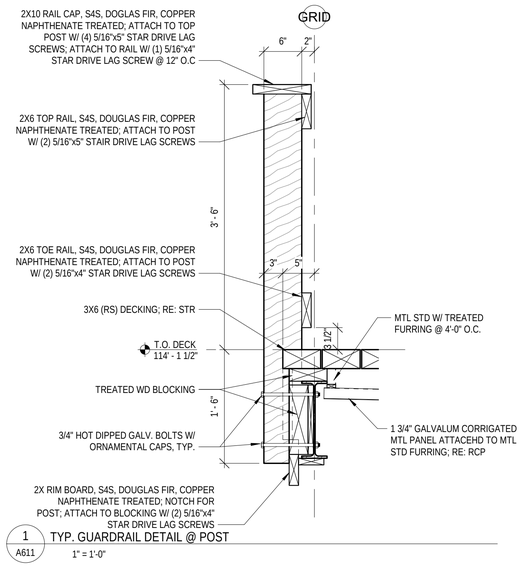
A501



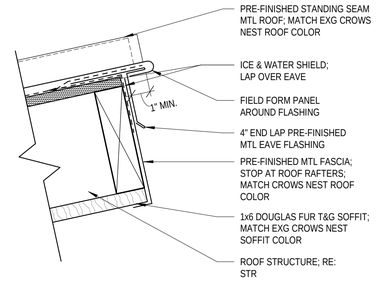
5 A611 EAVE DETAIL
3" = 1'-0"



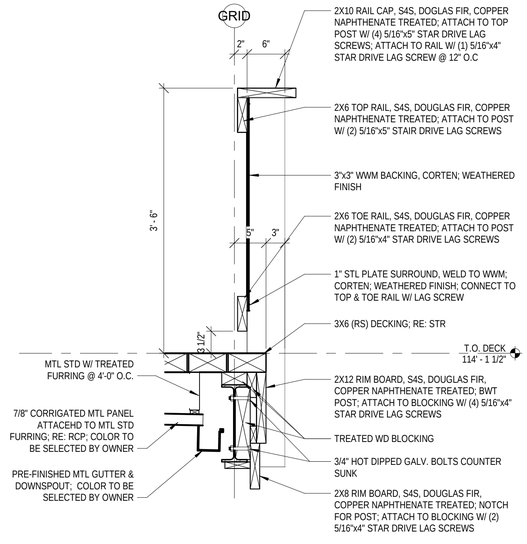
3 A611 BAR TOP DETAIL 1
1" = 1'-0"



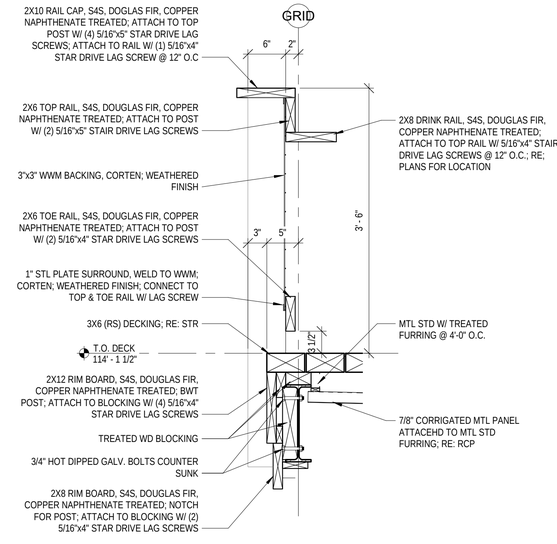
1 A611 TYP. GUARDRAIL DETAIL @ POST
1" = 1'-0"



6 A611 EAVE DETAIL 2
3" = 1'-0"



4 A611 TYP. GUARDRAIL DETAIL 2
1" = 1'-0"



2 A611 TYP. GUARDRAIL DETAIL 1
1" = 1'-0"

REGISTERED PROFESSIONAL ARCHITECT
REG. NO
9155
BRADLEY P. BURNS
SOUTH DAKOTA
5/14/2021

3202 W. MAIN, SUITE C
RAPID CITY, SOUTH DAKOTA 57702
605.343.9606

Albertson Engineering Inc.

CONSULTANT

chamberlin
725 St. Joseph Street, Suite B1
Rapid City, SD 57701
605.355.6804

PROJECT IDEN:

DAYS OF '76 CROW'S NEST ADDITION

DEADWOOD, SOUTH DAKOTA

ISSUE BLOCK:

NO	ISSUE TYPE	ISSUE DATE
CD	100% CD	5.14.21

MANAGEMENT:

PROJECT NO: 1810
DRAWN BY: JL
CHECKED BY: --

SHEET TITLE:

ARCHITECTURAL DETAILS - EXTERIORS

SHEET IDENTIFICATION:

A611

ELECTRICAL ABBREVIATIONS

A OR AMP	AMPERE
AC	ALTERNATING CURRENT
AC	6" ABOVE COUNTER HEIGHT or 4" ABOVE BACKSPLASH, WHICHEVER IS GREATER
ADD	ADDENDUM
ADJS	ADJUSTABLE
AFC	AVAILABLE FAULT CURRENT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AFI	ARC FAULT INTERRUPTER
AHU	AIR HANDLING UNIT
AL	ALUMINUM
ALT	ALTERNATE
ANN	ANNUNCIATOR
APPROX	APPROXIMATELY
AQUA	AQUASTAT
AR	AS REQUIRED
ARCH	ARCHITECT
ATS	AUTOMATIC TRANSFER SWITCH
AUC	AUX CONTACTS
AUTO	AUTOMATIC
AUX	AUXILIARY
AV	AUDIO VISUAL
AWG	AMERICAN WIRE GAUGE
BFG	BELOW FINISHED GRADE
C	CONDUIT
CAB	CABINET
CATV	CABLE TELEVISION
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CCTV	CLOSED CIRCUIT TV
CLG	CEILING
CM	COMBINATION STARTER
CNTL	CONTROL
COMM	COMMUNICATION(S)
COND	CONDUCTOR
CONN	CONNECT (-ION)
CONT	CONTINUATION OR CONTINUOUS
CONTR	CONTRACTOR
CPT	CONTROL POWER TRANSFORMER
CT	CURRENT TRANSFORMER
CTR	CENTER
CU	COPPER
CUH	CABINET UNIT HEATER
D	DIMMER
DC	DIRECT CURRENT
DIA	DIAMETER
DISC	DISCONNECT
DIST	DISTRIBUTION
DN	DOWN
DPDT	DOUBLE POLE, DOUBLE THROW
DS	DISCONNECT SWITCH
DWG	DRAWING
E	EQUIP. BRANCH OF EMERGENCY PWR
EA	EACH
EC	ELECTRICAL CONTRACTOR DIV. 16
EF	EXHAUST FAN
EH	ELECTRIC HEAT
EHC	ELECTRIC HEATING COIL
EL	ELEVATION
ELEC	ELECTRIC (-AL)
ELEV	ELEVATOR
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
ENCL	ENCLOSURE
EP	ELECTRIC PNEUMATIC
EPO	EMERGENCY POWER OFF
EQUIP	EQUIPMENT
EWC	ELECTRIC WATER COOLER
EX	EXISTING
EXH	EXHAUST
EXP	EXPLOSION PROOF
F	FUSE
F@#	FUSED AT # AMPERES
FA	FIRE ALARM
FAA	FIRE ALARM ANNUNCIATOR
FACP	FIRE ALARM CONTROL PANEL
FBO	FURNISHED BY OTHERS
FC	FOOT CANDLE
FCU	FAN COIL UNIT
FD	FIRE DAMPER
FDS	FUSED DISCONNECT SWITCH
FIN	FINISHED
FL	FLOOR
FLA	FULL LOAD AMPS
FLUOR	FLUORESCENT
FSD	FIRE/SMOKE DAMPER
FT or '	FOOT or FEET
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GEN	GENERATOR
GFI	GROUND FAULT INTERRUPTER
GND	GROUND
GYP	GYPSUM BOARD
GRC	GALVANIZED RIGID CONDUIT
H	HEATING EQUIPMENT
HD	HEAVY DUTY
HID	HIGH INTENSITY DISCHARGE
HOA	HAND-OFF AUTO SWITCH
HORIZ	HORIZONTAL
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
HT	HEIGHT
HTR	HEATER
HZ	HERTZ
ID	INTEGRAL DISCONNECT
INCAND	INCANDESCENT
IN or "	INCH
INTEGRAL	INTEGRAL DEVICE TO EQUIPMENT
J(-BOX)	JUNCTION BOX
KEC	KITCHEN EQUIPMENT SUPPLIER
KV	KILOVOLT
KVA	KILOVOLT-AMPERE
KW	KILOWATT
KWH	KILOWATT HOUR
LCL	LOCAL
LS	LIFE SAFETY BRANCH/EMERG. POWER
LT	LIGHT
LTG	LIGHTING
MAG	MAGNETIC STARTER W/OUT DISC.
MAX	MAXIMUM
MBJ	MAIN BONDING JUMPER
MC	MECHANICAL CONTRACTOR DIV. 23
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MDP	MAIN DISTRIBUTION PANEL
MFR	MANUFACTURER
MH	METAL HALIDE
MIC	MICROPHONE
MIN	MINIMUM
MISC	MISCELLANEOUS
MLO	MAIN LUGS ONLY
MMS	MANUAL MOTOR STARTER WITH OVERLOAD
MOCP	MAXIMUM OVERCURRENT PROTECTION
MON	MONITOR
MRT	MOTOR RATED TOGGLE SWITCH
MSBD	MAIN SWITCHBOARD
MSC	MOTORIZED SPEED CONTROLLER
MT(D)	MOUNT(ED)
MTG	MOUNTING
MTR	MOTOR
N	NORMAL POWER BRANCH
N3R	NEMA 3R ENCLOSURE
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
NF	NOT FUSED
NFDS	NON-FUSED SAFETY DISC. SWITCH
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NO or #	NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OE	OWNER FURNISHED EQUIPMENT
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OH	OVERHEAD
OHC	OVERHEAD COMMUNICATION
OHP	OVERHEAD POWER
OL	OVERLOADS
P	POLE
PB	PULL BOX, PUSHBUTTON or POWER BASE
PC	PHOTOELECTRIC CELL
PE	PNEUMATIC ELECTRIC
PF	POWER FACTOR
PH	PHASE
PIV	POST INDICATING VALVE
PNL	PANEL
PL	PILOT LIGHT
P&C	CORD-N-PLUG
PLBG	PLUMBING
PRI	PRIMARY
PROJ	PROJECTION (OR)
PVC	POLYVINYL CHLORIDE (CONDUIT)
PWR	POWER
QUAN	QUANTITY
REC	RECESSED
RECEPT	RECEPTACLE
REQD	REQUIRED
RIP	REPLACE IN PLACE
RLA	RUNNING LOAD AMPS
RM	ROOM
RMS	ROOT MEAN SQUARE
RMT	REMOTE
RPM	REVOLUTIONS PER MINUTE
RTU	ROOF TOP UNIT
SC	SELF CONTAINED
SEC	SECURITY
SHT	SHEET
SIM	SIMILAR
SM	SURFACE MOUNT
SP	SURGE PROTECTION
SPEC	SPECIFICATIONS
SPKR	SPEAKER
SPDT	SINGLE POLE DOUBLE THROW
SPST	SINGLE POLE SINGLE THROW MOTOR RATED
SQ	SQUARE
SS	STAINLESS STEEL
STD	STANDARD
SUSP	SUSPENDED
SW	SWITCH
SWBD	SWITCHBOARD
SYS	SYSTEM
TC	TEMPERATURE CONTROL CONTRACTOR
TDO	TIME DELAY OFF
TEL(E)	TELEPHONE
TEMP	TEMPERATURE
TMB	TELEPHONE MOUNTING BOARD
T-STAT	THERMOSTAT
TV	TELEVISION
TYP	TYPICAL
TR	TAMPER RESISTANT
UC	UNDER COUNTER
UE	UNDERGROUND ELECTRICAL
UG	UNDERGROUND
UL	UNDERWRITERS LABORATORY
UH	UNIT HEATER
UT	UNDERGROUND TEL AND/OR TV
UNO	UNLESS NOTED OTHERWISE
UNSW	UNSWITCHED
UP	UNDERGROUND PRIMARY
US	UNDERGROUND SECONDARY
UV	UNIT VENTILATOR OR ULTRAVIOLET
V	VOLT
VC	VENTILATION CONTRACTOR
VENT	VENTILAT (-ING-OR-ION)
VERT	VERTICAL
VFD	VARIABLE FREQUENCY DRIVE
VFY	VERIFY
VOL	VOLUME
W	WATT
WAP	WIRELESS ACCESS POINT
W/	WITH
WG	WIREGUARD
WH	WATER HEATER
W/O	WITHOUT
WP	WEATHERPROOF
WT	WEIGHT
XFMR	TRANSFORMER
ZS	POSITION SWITCH

ELECTRICAL SYMBOLS LEGEND

NOTES

1. THESE SYMBOLS COMPRISE A STANDARD LIST, NOT ALL SYMBOLS MAY APPEAR ON THESE DRAWINGS.
2. MOUNTING HEIGHTS GIVEN ARE STANDARD, WHERE DIMENSIONAL NUMBER IS SHOWN AT DEVICE, THIS SHALL BE THE MOUNTING HEIGHT. MOUNTING HEIGHTS ARE TO CENTER OF OUTLET UNLESS NOTED OTHERWISE.
   - * DISTANCE ABOVE TOP OF DOOR FRAME
   - ** DISTANCE TO TOP OF EQUIPMENT OR DEVICE
   - *** DISTANCE TO HIGHEST OPERABLE PART OF EQUIPMENT
   - **** DISTANCE BELOW CEILING
   - ***** DISTANCE TO BOTTOM OF DEVICE
3. MOUNTING HEIGHTS INDICATED ARE FOR STUD WALL CONSTRUCTION, WHEN BLOCK OR BRICK CONSTRUCTION IS USED, ADJUST MOUNTING HEIGHTS TO ALIGN DEVICES OR DEVICE PLATES WITH RUNNING JOINT.

GENERAL

		MTG HT
	INDICATES EXISTING ITEM TO BE REMOVED	
	INDICATES EXISTING ITEM TO REMAIN	
	INDICATES NEW ITEM	

LIGHTING SYSTEM

		MTG HT
A, a, b	TYPICAL FIXTURE DESIGNATION LIGHT FIXTURE TYPE SWITCHING	
	MISCELLANEOUS LIGHT FIXTURE	CLG
	SURFACE STRIP FIXTURE	CLG
T1, TR4	TRACK LIGHTING (QUANTITY OF HEADS AS SCHEDULED)	PLAN
	AISLE/STEP LIGHT FIXTURE	PLAN
or	WALL MOUNTED FIXTURE DESIGNATION	PLAN
or	POLE MOUNTED LIGHT FIXTURES (QUANTITY OF HEADS AS INDICATED)	PLAN
X	LIGHT FIXTURE ON LIFE SAFETY BRANCH (TYPE DENOTED)	
X	LIGHT FIXTURE ON CRITICAL BRANCH (TYPE DENOTED)	
X	LIGHT FIXTURE ON EQUIPMENT BRANCH (TYPE DENOTED)	
XE	LIGHT FIXTURE WITH EMERGENCY BALLAST (TYPE DENOTED)	
	WALL WASH DIRECTION DESIGNATION	
	SUSPENDED FIXTURE DESIGNATION	PLAN
	SURFACE MOUNTED FIXTURE DESIGNATION	CLG
	RECESSED FIXTURE DESIGNATION	CLG
	FLANGE KIT DESIGNATION	CLG
	WALL MOUNTED EXIT SIGN, ARROW INDICATES EGRESS DIRECTION(S). SHADING DENOTES FACE DIRECTION(S).	82"
	CEILING MOUNTED EXIT SIGN, ARROW INDICATES EGRESS DIRECTION(S). SHADING DENOTES FACE DIRECTION(S).	CLG
	EXIT/EMERGENCY COMBINATION FIXTURE	CLG
	BATTERY POWERED EMERGENCY LIGHTING UNIT	82"
$	SINGLE POLE SWITCH	46"
$2	DOUBLE POLE SWITCH	46"
$3	THREE WAY SWITCH	46"
$4	FOUR WAY SWITCH	46"
$a	SWITCH, "a" INDICATES SWITCH DESIGNATION	46"
$L	SWITCH WITH ILLUMINATED TOGGLE	46"
$K	KEY SWITCH	46"
$TS	TIMER SWITCH	46"
$D	DIMMER SWITCH	46"
	PHOTO CELL	
H/C	TIME CLOCK	
$OCC	WALL MOUNTED OCCUPANCY SENSOR, "X" INDICATES TYPE	46"
OP	OCCUPANCY SENSOR POWER PACK (IN J-BOX)	ABOVE CLG
OCC, OCC	CEILING MOUNTED OCCUPANCY SENSOR (DIRECTIONAL)	
A	UNITARY LIGHTING RELAY (3A)	ABOVE CLG
R	ROOM LIGHTING RELAY (20A)	ABOVE CLG
B	REMOTE BATTERY	ABOVE CLG
	LONG RANGE OCCUPANCY SENSOR	PLAN

POWER SYSTEMS

		MTG HT
	BRANCH CIRCUIT PANEL	TOP AT 72"
	POWER DISTRIBUTION PANEL OR SWITCHBOARD	SPEC
	EQUIPMENT CABINET	SPEC
	METER	60"**
C/T	C/T CABINET - 36"W x 12"D x 28"H	60"**
G ANN	GENERATOR ANNUNCIATOR (RECESS MOUNTED, SEE SPEC)	SPEC
T	TRANSFORMER	
	AUTOMATIC TRANSFER SWITCH	TOP AT 72"
	MOTOR	
X X	INDICATES EQUIPMENT SCHEDULE IDENTIFICATION NUMBER (SEE EQUIPMENT SCHEDULE)	
VFD	VARIABLE FREQUENCY DRIVE	TOP AT 72"
	CONTROLLER OR STARTER	
	COMBINATION STARTER & DISCONNECT	
	DISCONNECT OR SAFETY SWITCH	
MRT	MOTOR RATED TOGGLE SWITCH	46"
MMS	MANUAL MOTOR STARTER, WITH OVERLOAD PROTECTION	46"
	CONTROL STATION/PUSHBUTTON	46"
R	RELAY	
C	CONTACTOR	TOP AT 72"
	ADA PUSH PLATE	42"
	LINE VOLTAGE ELECTRIC THERMOSTAT	46"
	SINGLE RECEPTACLE	18"
XXX	DUPLEX RECEPTACLE - XXX, PER ABBREVIATIONS	18"
	CEILING MOUNTED RECEPTACLE	CLG
	DUPLEX RECEPTACLE ON EMERGENCY CIRCUIT	18"
	SPLIT WIRED DUPLEX RECEPTACLE	18"
DCH	DUPLEX RECEPTACLE WITH (2) USB CHARGING PORTS	18"
SS	RECEPTACLE WITH INTEGRAL SURGE SUPPRESSION	18"
TR	RECEPTACLE - TAMPER RESISTANT	18"
	DOUBLE DUPLEX RECEPTACLE	18"
	DOUBLE DUPLEX RECEPTACLE ON EMERGENCY CIRCUIT	18"
XX	SPECIAL PURPOSE OUTLET	18"
• XX	SPECIAL PURPOSE DIRECT CONNECTION	
	FLOOR OUTLET (DEVICES AS INDICATED)	
P	POWER POLE	

PANELBOARD IDENTIFICATION

VOLTAGE DESIGNATION	CODE
HIGH VOLTAGE 3Ø4W, 277/480	H
LOW VOLTAGE 3Ø4W, 120/208	L
SYSTEM DESIGNATION	
NORMAL	N
EMERGENCY	E
LIFE SAFETY	LS
UNINTERRUPTIBLE POWER SOURCE	UPS

PANEL NO. / SYSTEM DESIGNATION / VOLTAGE DESIGNATION — LN2

SIGNAL SYSTEMS

		MTG HT
	BUZZER	80"
	BELL, DOORBELL	80"
	TELEPHONE OUTLET	18"
W	TELEPHONE OUTLET - WALL MOUNTED	46"
#	DATA OUTLET/DATA OUTLET IF MORE THAN (2)- # INDICATES QUANTITY OF CABLES AND JACKS	18"
	DATA OUTLET	18"
#	TELEPHONE OUTLET/DATA OUTLET IF MORE THAN (2)- # INDICATES QUANTITY OF DATA CABLES AND JACKS	18"
WAP	WIRELESS ACCESS POINT	CLG U.N.O.
S S	SPEAKER (WALL OR CEILING MOUNTED)	80"
S S	HORN TYPE SPEAKER (WALL OR CEILING MOUNTED)	80"
PoE	SPEAKER VIA LAN. SPEAKER TO BE POWER-OVER-ETHERNET STYLE. SEE DETAILS.	CLG U.N.O.
9	SYSTEM CLOCK - DIAMETER IN INCHES	80"
S S	COMBINATION CLOCK/SPEAKER	80"
	AUXILIARY OUTLET	
	MICROPHONE OUTLET	18"
	SPEAKER VOLUME CONTROL	46"
IC	INTERCOM STATION	46"
	EXTRA LARGE 4 SQUARE BOX WITH HDMI CONNECTION	SEE PLAN
	TV ANTENNA OUTLET	VERIFY
	COMMUNICATION BACKBOARD	SPEC
	DATA RACK - FLOOR MOUNTED	
CCTV	CLOSED CIRCUIT TV CAMERA	VERIFY
	FLOOR OUTLET (DEVICES AS INDICATED)	

SECURITY SYSTEM

		MTG HT
KS AI	AI PHONE/INTERCOM	
KS CR	CARD READER	46"
KS KP	KEYPAD	46"
KS KS	KEY SWITCH	46"
S RTE	REQUEST TO EXIT	ABOVE DOOR
KS EP	EXIT PUSHBUTTON	46"
S ES	ELECTRIC STRIKE	
S ML	MAGNETIC LOCK	
S EL	ELECTRIC LOCK	
S TH	POWER TRANSFER HINGE	
S DC	DOOR CONTACT	
S ODC	OVERHEAD DOOR CONTACT	
S MS	MONITOR STRIKE	
S MD	MOTION DETECTOR	
S GB	GLASS BREAK DETECTOR	
KS P	PANIC BUTTON -INTEGRATE WITH CASEWORK AS APPLICABLE	42"
S A	SECURITY LOCKDOWN NOTIFICATION APPLIANCE A=AUDIO AS INDICATED	84"

FIRE ALARM SYSTEM

		MTG HT
F	MANUAL STATION	46"
F H	HEAT DETECTOR - FIXED TEMPERATURE	VERIFY
F RR	HEAT DETECTOR - RATE OF RISE	VERIFY
F R	RELAY	VERIFY
F 135°	HEAT DETECTOR - 135° INDICATES TEMP RATING	VERIFY
F I	SMOKE DETECTOR - IONIZATION	VERIFY
F P	SMOKE DETECTOR - PHOTOELECTRIC	VERIFY
F P-SB	SMOKE DETECTOR WITH SOUNDER BASE	VERIFY
F P MS	MULTI-STATION ALARM - PHOTOELECTRIC	
F P SS	SINGLE STATION ALARM - PHOTOELECTRIC	
F	DUCT MOUNTED SMOKE DETECTOR	
F RS	STATION - REMOTE RESET/TEST STATION FOR DUCT DETECTOR	46"
F RL	REMOTE INDICATOR LAMP	VERIFY
F B-T	BEAM DETECTOR TRANSMITTER	
F B-R	BEAM DETECTOR RECEIVER	
F FS	FLOW SWITCH MONITOR MODULE	
F TS	TAMPER SWITCH MONITOR MODULE	
F MM	MONITOR MODULE	
F PIV	PRESSURE INDICATOR VALVE	
F PS	PRESSURE SWITCH MONITOR MODULE	
F CM	CONTROL MODULE	
F SD	FIRE/SMOKE DAMPER	
F DH	MAGNETIC DOOR HOLDER	VERIFY
F	FIREMAN'S STATION	46"
F 110	STROBE - 110 INDICATES CANDELA IN SLEEPING AREAS, TOP OF LENS NOT LESS THAN 24" BELOW CEILING	80"
F	FIRE ALARM HORN TOP OF DEVICE NOT LESS THAN 90" AFF AND NOT LESS THAN 6" BELOW FINISHED CEILING. IN SLEEPING AREAS, TOP OF LENS NOT LESS THAN 24" BELOW CEILING	80"
F 110	FIRE ALARM HORN AND STROBE - 110 INDICATES CANDELA IN SLEEPING AREAS, TOP OF LENS NOT LESS THAN 24" BELOW CEILING	80"
F 110	FIRE ALARM CHIME AND STROBE - 110 INDICATES CANDELA IN SLEEPING AREAS, TOP OF LENS NOT LESS THAN 24" BELOW CEILING	80"
F 110	FIRE ALARM SPEAKER AND STROBE - 110 INDICATES CANDELA, TOP OF LENS NOT LESS THAN 24" BELOW CEILING	80"
FACP	FIRE ALARM CONTROL PANEL	SPEC
F ANN	ANNUNCIATOR (RECESS MOUNTED, SEE SPEC)	SPEC

RACEWAY SYSTEM

		MTG HT
	CONDUIT CONCEALED IN CEILING OR WALLS	
	CONDUIT CONCEALED IN FLOOR OR BELOW	
	EXPOSED CONDUIT	
	LIFE SAFETY BRANCH CIRCUIT	
	CRITICAL BRANCH CIRCUIT - PATIENT OR MECHANICAL	
	EQUIPMENT BRANCH CIRCUIT	
	LOW-VOLTAGE CIRCUIT	
-UE-	UNDERGROUND ELECTRICAL	
-UP-	UNDERGROUND PRIMARY	
-UT-	UNDERGROUND TELEPHONE	
-UC-	UNDERGROUND COMMUNICATIONS	
-UTV-	UNDERGROUND CABLE TELEVISION (CATV OR CCTV)	
-UFIBR-	UNDERGROUND FIBER OPTIC	
-OHP-	OVERHEAD PRIMARY	
-OHT-	OVERHEAD TELEPHONE	
-UG- 30"	UNDERGROUND ELECTRIC - 30" INDICATES BURIAL DEPTH	
B C	CONDUIT INSTALLED INTO CEILING SPACE WITH BUSHED END (B) OR CAPPED END (C) (BUSHED IF NOT INDICATED)	
	ELEVATION CHANGE IN CONDUIT UP	
	ELEVATION CHANGE IN CONDUIT DOWN	
	MATCH MARK FOR CONDUIT CONTINUATION	
L1-1,3	CIRCUIT HOME RUN, L1 INDICATES PANEL, 1,3 INDICATES POLE NUMBER(S)	
a	"a" DESIGNATES LIGHTING SWITCH	
	UNLESS OTHERWISE INDICATED, EACH CROSS HASH DENOTES ONE # 12 CONDUCTOR. NO CROSS HASH DENOTES 3 # 12 CONDUCTORS. LONGER CROSS HASH INDICATES NEUTRAL CONDUCTOR. INDICATES GROUNDING CONDUCTOR	
	PULL BOX	
J	JUNCTION BOX	
C	COMMUNICATIONS/DATA JUNCTION BOX W/ 1" EMT TO ACCESSIBLE CEILING, PLASTIC BUSHING. PROVIDE BLANK COVER MATCHING ADJACENT DEVICES. 4-11/16" BACKBOX, MUDRING AS REQUIRED	18" UNO
P	POWER JUNCTION BOX W/ 3/4" EMT TO ACCESSIBLE CEILING, PLASTIC BUSHING. PROVIDE BLANK COVER MATCHING ADJACENT DEVICES. 4 SQ BACKBOX, MUDRING AS REQUIRED	18" UNO
	MULTI-OUTLET ASSEMBLY	
	CABLE TRAY - DEFAULT WIDTH = 6" - INDICATES WIDTH	
UF T P C	UNDERFLOOR DUCT AND JUNCTION BOX, NUMBER OF CELLS DENOTED BY NUMBER OF SPACES BETWEEN LINES. TYPE OF CELL DENOTED BY P (POWER), T (TELEPHONE), C (COMMUNICATIONS).	
B X	BACK BOX - INSTALL SINGLE GANG BACKBOX WITH 3/4" EMT CONDUIT UP TO ACCESSIBLE CEILING SPACE. PROVIDE BLANK COVER MATCHING DECOR X" = OVERSIZE IF NOTED	48"

SHEET INDEX

GENERAL NOTES

1. NOT ALL APPLICABLE REQUIREMENTS OF THE NEC ARE IDENTIFIED ON THESE CONSTRUCTION PLANS OR IN THE SPECIFICATION DOCUMENTS. IT IS EXPECTED THAT THE ELECTRICIAN ON SITE READ AND UNDERSTAND THE ASSOCIATED SPECIFICATIONS AND THE NEC. PRODUCT OR INSTALLATIONS NOT IN COMPLIANCE WILL BE REJECTED.
2. ELECTRICAL CONTRACTOR TO COORDINATE ALL WORK AND DEVICE LOCATIONS WITH OTHER TRADES AND WITH ARCHITECTURAL PLANS AND DETAILS. CONTRACTOR TO UTILIZE ARCHITECTURAL DRAWINGS TO IDENTIFY PROJECT REQUIREMENTS AS REQUIRED BY THE PROJECT.
3. PROVIDE SEPARATE NEUTRAL FOR EACH CIRCUIT. INSTALL GROUND WIRE IN EACH CONDUIT.
4. FIELD VERIFY EXISTING CONDITIONS. CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID AND VERIFY CONDITIONS ARE AS DELINEATED. CONTRACTOR SHALL INCLUDE IN BID, ALL COST ASSOCIATED WITH MODIFICATIONS OF EXISTING CONDITIONS.
5. EQUIPMENT PLACEMENTS AND CONDUIT SHALL BE PLANNED SUCH THAT FOLLOWING INSTALLATION, ALL ELECTRICAL ENCLOSURES AND ALL EQUIPMENT SHALL BE SERVICEABLE.
6. CONTRACTOR SHALL LOCATE OR SHALL HAVE THE SERVICING UTILITY LOCATE ALL UNDERGROUND CABLE, CONDUITS, PIPING UTILITIES, ETC. PRIOR TO COMMENCING CONSTRUCTION (UNDERGROUND EXCAVATION). CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY DAMAGES DUE TO THE CONSTRUCTION ACTIVITIES. A WATERJET/VAC PROCESS IS RECOMMENDED TO UNCOVER EXISTING UTILITIES.
7. ALL CONDUCTORS ARE TO BE COPPER UNLESS EXPLICITLY ALLOWED TO BE ALUMINUM.
8. FOR ANY ELECTRICAL BOX THAT IS OR BECOMES ABANDONED DURING CONSTRUCTION, MAINTAIN ACCESS AND PROVIDE A BLANK COVERPLATE WITH COLOR MATCHING ADJACENT DEVICES.
9. FINAL CONNECTIONS TO EQUIPMENT SHALL BE PER MANUFACTURER'S APPROVED WIRING DIAGRAMS, DETAILS AND INSTRUCTIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE MATERIALS AND EQUIPMENT REQUIRED. THIS REQUIREMENT SHALL NOT BE CONSTRUED TO PROVIDE LESS THAN SPECIFIED.
10. ALL EMPTY RACEWAY SYSTEMS SHALL BE PROVIDED WITH A PULLWIRE/PULLCORD AND SHALL BE IDENTIFIED AT ALL JUNCTION, PULL, AND TERMINATION POINTS USING PERMANENT TAGS. TAGS SHALL INDICATE FUTURE USE, ORIGINATION, AND TERMINATION LOCATIONS OF EACH CONDUIT.
11. ALL WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER TO THE SATISFACTION OF THE ARCHITECT/ENGINEER.
12. WORK, MATERIALS, AND EQUIPMENT SHALL BE NEW AND CONFORM TO THE LATEST EDITION OF LOCAL, STATE AND NATIONAL CODES & STANDARDS.
13. PRIOR TO ROUGH-INS, VERIFY THE EXACT LOCATIONS OF EQUIPMENT TO BE FURNISHED BY OTHERS.
14. VERIFY ACTUAL RATINGS, LOADS & CAPACITIES OF EQUIPMENT FURNISHED BY OTHERS PRIOR TO ROUGH-INS. ALL SHOP SUBMITTALS SHALL REFLECT THE ACTUAL EQUIPMENT PLANNED FOR INSTALLATION.
15. ALL NEW ELECTRICAL SYSTEMS SHALL BE TESTED FOR PROPER OPERATION. IF TESTS INDICATE WORK IS DEFECTIVE, THE CONTRACTOR SHALL MAKE ALL NECESSARY CORRECTIONS AT NO COST TO THE OWNER. ALL SYSTEMS SHALL BE OPERABLE & READY FOR CONTINUOUS OPERATION.
16. GFI RECEPTACLES SHALL NOT BE "WIRED TO PROTECT DOWNSTREAM" FOR THE PURPOSE OF REDUCING THE QUANTITY OF GFI RECEPTACLES. IF DOWNSTREAM DEVICES ARE NOT GFI AND MUST BE GFI PROTECTED, THE CONTRACTOR MAY ASSUME THIS WAS THE ENGINEER'S INTENT AND PROVIDE GFI PROTECTION FROM THE UPSTREAM DEVICE.
17. IF NOT ALREADY APPLIED, APPLY AMBIENT TEMPERATURE DE-RATING PER THE NEC. SEE SPECIFICATIONS FOR DE-RATING METHODS.
18. UPSIZE BRANCH CIRCUITS PER VOLTAGE DROP REQUIREMENTS PER NEC, 6% TOTAL DROP. CONDUCTORS APPLICATION OF SCHEDULE 310. SEE SPECIFICATIONS FOR PROJECT SPECIFIC REQUIREMENTS.
19. EXPOSED CONDUITS SHALL BE RMC. EQ. BOXES AND CONDUIT SHALL BE PAINTED MATTE BLACK WITH EPOXY PAINT.

REGISTERED PROFESSIONAL ENGINEER — STAMP — SOUTH DAKOTA — S-14-22

3202 W. MAIN, SUITE C
RAPID CITY, SOUTH DAKOTA 57702
605.343.9606
Albertson Engineering Inc.
CONSULTANT

chamberlin
725 St. Joseph Street, Suite B1
Rapid City, SD 57701
605.355.6804

SKYLINE ENGINEERING LLC
615 12th Street, Rapid City, SD 57701
Tel: 605.737.3800 Fax: 605.737.3859
SE Project 20026

PROJECT IDEN:

DAYS OF '76 CROW'S NEST ADDITION

DEADWOOD, SOUTH DAKOTA

ISSUE BLOCK:

NO	ISSUE TYPE	ISSUE DATE
CD	100% CD	05/14/21

MANAGEMENT:

PROJECT NO: 1810

DRAWN BY: SMD

CHECKED BY: JBS

SHEET TITLE:

ELECTRICAL LEGEND AND SHEET INDEX

SHEET IDENTIFICATION:

E000

ELECTRICAL SPECIFICATION

SCOPE

FURNISH AND INSTALL COMPLETELY WIRED AND OPERATIONAL ELECTRICAL LIGHTING AND POWER SYSTEMS AS SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN. DATA, COMMUNICATIONS, AND SECURITY AS SPECIFIED.

CODES, REGULATIONS, AND STANDARDS

THE INSTALLATION SHALL COMPLY WITH APPLICABLE LOCAL AND STATE CODES AND ORDINANCES, WITH THE REGULATIONS OF THE NATIONAL ELECTRIC CODE AND WITH THE REQUIREMENTS OF THE POWER AND TELEPHONE COMPANIES FURNISHING SERVICES TO THIS INSTALLATION.

THE FOLLOWING INDUSTRY STANDARDS, SPECIFICATIONS AND CODES ARE MINIMUM REQUIREMENTS USING THE LATEST EDITION OR THAT EDITION WHICH HAS BEEN ADOPTED BY THE AHJ:

1. THE NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION STANDARDS.
2. THE NATIONAL ELECTRICAL CODE & STATE WIRING RULES.
3. UNDERWRITER LABORATORIES INCORPORATED STANDARDS.
4. AMERICAN STANDARDS ASSOCIATION.
5. INTERNATIONAL BUILDING CODE, INTERNATIONAL FIRE CODE.
6. NATIONAL FIRE PROTECTION (NFPA 72)
7. LOCAL CITY & COUNTY REQUIREMENTS.

STORAGE AND HANDLING OF MATERIAL

DELIVER MATERIALS AND EQUIPMENT TO THE PROJECT IN THE MANUFACTURER'S ORIGINAL, UNOPENED, LABELED CONTAINERS. PROTECT AGAINST MOISTURE, TAMPERING, OR DAMAGE FROM IMPROPER HANDLING OR STORAGE. CONTRACTOR SHALL PROTECT AND BE RESPONSIBLE FOR ANY DAMAGE TO WORK OR MATERIALS UNTIL FINAL ACCEPTANCE BY THE OWNER AND SHALL MAKE GOOD WITHOUT COST TO THE OWNER ANY DAMAGE OR LOSS THAT MAY OCCUR DURING THIS PERIOD.

ARRANGE FOR TIMELY DELIVERY OF MATERIALS AND EQUIPMENT TO THE JOB SITE IN ORDER TO MINIMIZE THE LENGTH OF TIME BETWEEN DELIVERY AND INSTALLATION.

COVER AND PROTECT ANY MATERIAL WHICH MAY BE AFFECTED BY THE WEATHER WHILE IN TRANSIT OR STORED AT THE PROJECT SITE, ANY MATERIAL FOUND DEFECTIVE OR NOT INSTALLED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS MAY BE REJECTED BY THE ENGINEER.

EQUIPMENT IDENTIFICATION AND CLEAN-UP

ALL ELECTRICAL EQUIPMENT SHALL BE PROVIDED WITH IDENTIFICATION LABELS INDICATING ITS USE OR FUNCTION. EQUIPMENT TO BE IDENTIFIED SHALL INCLUDE PANELBOARDS, SPECIAL SYSTEMS PANELS, MOTOR STARTERS, CONTROL SWITCHES, DISCONNECTS, JUNCTION BOXES AND EMPTY CONDUITS FOR FUTURE USE. ALL PANELS SHALL HAVE TYPED CIRCUIT DIRECTORIES. ALL ELECTRICAL EQUIPMENT MUST BE KEPT COMPLETELY PROTECTED FROM WEATHER, PAINTING, ETC. DAMAGE FROM RUST, PAINT, SCRATCHES, ETC. SHALL BE CORRECTED.

KEEP THE PREMISES FREE FROM ACCUMULATION OF WASTE MATERIALS, OR RUBBISH CAUSED BY THE EMPLOYEES OR WORK UNDER THIS DIVISION OF THE SPECIFICATIONS. AT THE COMPLETION OF THE WORK, REMOVE ALL SURPLUS MATERIALS, TOOLS, ETC.

DRAWINGS

THE DRAWINGS INDICATE THE GENERAL ARRANGEMENT AND LOCATIONS OF THE ELECTRICAL WORK. INFORMATION PRESENTED ON THESE DRAWINGS ARE AS ACCURATE AS PLANNING CAN DETERMINE, BUT FIELD VERIFICATION OF ALL DIMENSIONS, LOCATIONS, LEVELS, ETC., TO SUIT FIELD CONDITIONS IS REQUIRED. REVIEW ALL ARCHITECTURAL, STRUCTURAL, AND MECHANICAL DRAWINGS AND ADJUST ALL WORK TO MEET THE REQUIREMENTS OF CONDITIONS SHOWN. THE ARCHITECTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER ALL OTHER DRAWINGS. DISCREPANCIES BETWEEN DIFFERENT PLANS, OR BETWEEN DRAWINGS AND SPECIFICATION, OR REGULATIONS AND CODES GOVERNING THE INSTALLATION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IN WRITING. CONTRACTOR SHALL BE RESPONSIBLE TO FIELD MEASURE AND CONFIRM MOUNTING HEIGHTS AND LOCATIONS OF ELECTRICAL EQUIPMENT WITH RESPECT TO COUNTERS, RADIATION HEATING, ETC. DO NOT SCALE DISTANCES OFF THE ELECTRICAL DRAWINGS, USE ACTUAL BUILDING DIMENSIONS.

CUTTING AND FITTING

PERFORM THE CUTTING, FITTING, REPAIRING AND FINISHING OF THE WORK NECESSARY FOR THE INSTALLATION OF THE EQUIPMENT OF THIS SECTION. HOWEVER, NO CUTTING OF THE WORK OF OTHER TRADES OR OF ANY STRUCTURAL MEMBER SHALL BE DONE WITHOUT THE CONSENT OF THE ARCHITECT.

COOPERATION WITH OTHER CONTRACTORS

COOPERATE WITH THE OTHER TRADES SO THAT THE INSTALLATION OF THE ELECTRICAL OUTLETS AND EQUIPMENT WILL BE PROPERLY COORDINATED. CONDUIT, FIXTURES, AND OTHER EQUIPMENT LOCATIONS SHALL BE CHECKED WITH THE OTHER TRADES TO AVOID CONFLICT WITH THE PIPING, DUCTWORK, STEEL, PIPING, BEAMS OR OTHER OBSTRUCTIONS. E.C. WILL YIELD TO OTHER TRADES WHENEVER POSSIBLE.

CAREFULLY CHECK THE LOCATIONS OF THE OUTLET BOXES AND DETERMINE THAT THEY HAVE NOT BEEN DISTURBED DURING THE INSTALLATION OF MATERIALS OF OTHER TRADES.

EXCAVATION AND BACKFILL

PERFORM ALL EXCAVATION AND BACKFILLING REQUIRED FOR WORK PERFORMED UNDER THIS DIVISION OF THE SPECIFICATIONS. TRENCH BOTTOMS SHALL BE GRADED TRUE AND FREE FROM STONES OR SOFT SPOTS. USE EXCAVATED MATERIALS FOR BACKFILL UNLESS OFF-SITE MATERIALS ARE DEEMED NECESSARY BY THE ARCHITECT, ENGINEER OR THE UTILITY COMPANY. TRENCHING AND BACKFILLING FOR ELECTRICAL AND WORK SHALL BE PROVIDED BY THIS CONTRACTOR. THE EC SHALL PERFORM OR COORDINATE SURFACE REPAIR WITH THE GENERAL CONTRACTOR.

WORKMANSHIP

THE INSTALLATION WORK INCLUDED IN THIS SPECIFICATION SHALL BE PERFORMED IN A NEAT WORKMANLIKE MANNER BY PERSONS EXPERIENCED AND SKILLED IN THE ELECTRICAL TRADE. ONLY THE BEST QUALITY WORKMANSHIP WILL BE ACCEPTED. ALL EXPOSED PARTS OF THE ELECTRICAL WIRING SYSTEMS SUCH AS EXPOSED CONDUITS, FLUSH PLATES, CABINET TRIM, FIXTURES, ETC. SHALL BE INSTALLED SQUARE AND TRUE WITH THE BUILDING CONSTRUCTION.

MATERIALS

ALL MATERIALS SHALL BE NEW AND OF QUALITY AS SPECIFIED ON THE PLANS OR SPECIFICATIONS AND MUST CARRY THE UNDERWRITER'S LABORATORIES APPROVAL COVERING THE PURPOSE FOR WHICH THEY ARE USED, IN ADDITION TO MEETING ALL REQUIREMENTS OF THE CURRENT APPLICABLE CODES AND REGULATIONS.

CONDUIT

ALL ELECTRICAL WIRING SHALL BE INSTALLED IN RACEWAY. RACEWAY SHALL BE UL LISTED AND MAY CONSIST OF RIGID GALVANIZED STEEL (RGS), ELECTRICAL METALLIC TUBING (EMT), FLEXIBLE METAL CONDUIT (FMC), METAL CLAD CABLING (MC), POLYVINYL CLORIDE (PVC), HIGH DENSITY POLYETHELENE (HDPE) CABLE IN CONDUIT (CIC) TYPE, OR SURFACE METAL RACEWAY (SMR).

APPLICATIONS – UNLESS NOTED OTHERWISE ON PLANS OR AS REQUIRED BY THE NEC:
- RGS – MAY BE USED IN ALL AREAS.
- EMT – MAY NOT BE USED.
- FMC – SHALL BE USED FOR FINAL CONNECTIONS TO MECHANICAL EQUIPMENT NOT TO EXCEED 36" (LIQUIDTIGHT FOR OUTDOOR CONNECTIONS).
- FMC – MAY NOT BE USED.
- PVC – UNDERGROUND INSTALLATIONS SHALL UTILIZE SCHEDULE 40 PVC CONDUIT.
- MC – MAY NOT BE USED.

WHERE THE CONDUIT ENTERS OUTLET BOXES, OR FIXTURES, FIRMLY FASTEN TO THE ENCLOSURE WITH LOCKNUTS OR OTHER APPROVED CONNECTOR, BUSHINGS MUST BE INSTALLED OR PART OF THE APPROVED CONNECTOR AND STRAP OR OTHERWISE SUPPORT CONDUIT AS REQUIRED. ALL EMPTY CONDUIT SYSTEMS SHALL HAVE 200 LB. TEST PULL CORD WITH OPPOSITE-END MARKINGS TO FACILITATE INSTALLATION OF FUTURE WIRE.

WHERE PVC IS INSTALLED, ALL FITTINGS SHALL BE UL APPROVED AND WITH CEMENTED JOINTS. UNDERGROUND HDPE SHALL BE A CONTINUOUS RUN.

WHERE METALLIC CONDUIT WILL COME IN CONTACT WITH EARTH, COVER WITH POLYETHYLENE TAPE SPIRAL WRAPPED AND OVERLAPPED TO PROVIDE A DOUBLE THICKNESS. TAPE SHALL BE SCOTCH NO. 50 TAPE OR EQUAL. CONDUITS SHALL BE RUN MINIMUM OF 24" BFG.

MINIMUM METALLIC CONDUIT SIZE FOR HOMERUNS SHALL BE 3/4".
MINIMUM CONDUIT SIZE FOR UNDERGROUND PVC RUNS SHALL BE 1", U.N.O.

OUTLET, PULL AND JUNCTION BOXES

INSIDE THE CROW'S NEST EACH SWITCH:
LIGHT, RECEPTACLE OR OTHER OUTLET SHALL BE PROVIDED WITH A CODE GAUGE, GALVANIZED STEEL OUTLET BOX. JUNCTION BOXES SHALL BE CODE GAUGE, GALVANIZED STEEL. OUTLET BOXES SHALL BE OF THE ONE PIECE, KNOCKOUT TYPE, IN GENERAL 4" SQUARE WITH PLASTER RING. PLASTER RINGS SHALL BE SET TO PROVIDE NOT MORE THAN 1/8" FROM WALL SURFACE TO RING. IN NO CASE SHALL PLASTER RING PROJECT BEYOND SURFACE OF WALL. ALL OUTLET BOXES SHALL BE FLUSH EXCEPT WHERE SHOWN OR NOTED OTHERWISE. ALL OUTLET BOXES SHALL BE PROTECTED FROM ENTRANCE OF FOREIGN MATERIALS DURING THE CONSTRUCTION PERIOD.

OUTDOORS:
EACH JUNCTION BOX OUTSIDE SHALL BE A FS OR SIMILAR SURFACE PVC OR METALLIC ENCLOSURE WITH GASKETED SEALS. UNDER CANOPY DECK BOXES MAY BE NEMA 3R OR NEMA 4 STEEL GASKETED TO PREVENT TO PREVENT WATER ENTRY FROM ABOVE.

CONDUCTORS

UNLESS OTHERWISE SPECIFIED, ALL WIRE SHALL BE TYPE THWN/THHN AS APPROPRIATE FOR THE APPLICATION. ALL WIRING SHALL BE COPPER UNLESS NOTED OTHERWISE. THE WIRES SHALL BE MARKED WITH COLOR TO SIMPLIFY CIRCUIT IDENTIFICATION. UNLESS OTHERWISE REQUIRED BY LOCAL ORDINANCES, GROUND WIRES SHALL BE GREEN, NEUTRAL SHALL BE WHITE OR GRAY AND HOT SHALL BE BLACK (PHASE A), RED (PHASE B). OR BLUE (PHASE C). NEUTRAL CONDUCTOR SHALL BE WHITE, COLOR CODED TO THE CORRESPONDING HOT CONDUCTOR, AT EVERY JUNCTION, PULL, OR TERMINATION. THE WIRE SHALL BE A MINIMUM OF #12 AWG UNLESS OTHERWISE INDICATED. WIRES SHALL BE SIZED AT THE LARGER OF THE NEC REQUIREMENT OR THAT SPECIFIED BY PLAN. EACH BRANCH CIRCUIT SHALL HAVE A SEPARATE NEUTRAL UNLESS EXPLICITLY SPECIFIED ON PLAN AND FED BY A MULTI-POLE CIRCUIT BREAKER WITH A HANDLE-TIE. ALL CONDUITS TO HAVE A SEPARATE GROUNDING CONDUCTOR.

NO WIRE SHALL BE INSTALLED IN THE CONDUIT SYSTEM UNTIL THE CONDUIT SYSTEM IS COMPLETE.

IN GENERAL, NUMBER OF CONDUCTORS INDICATED ON THE DRAWINGS DOES NOT INCLUDE THE GROUND CONDUCTOR UNLESS SPECIFICALLY NOTED. WHERE GROUND CONDUCTORS ARE SPECIFIED OR REQUIRED, CONDUIT SIZES SHALL BE INCREASED AS NECESSARY TO MEET NEC CONDUIT FILL REQUIREMENTS.

WIRING DEVICES

SWITCHES: MANUAL ON/OFF WALL SWITCHES SHALL BE COMMERCIAL GRADE AC SILENT TYPE SWITCHES 20A, 120V, COLOR TO MATCH EXISTING.

DIMMABLE SWITCHES TO BE MATCHED TO SELECTED LAMPING SYSTEM SOURCES. SEE PLANS.

GFCI RECEPTACLES: SHALL BE SPECIFICATION GRADE, DUPLEX TYPE, NEMA 5-20R, 20 AMPERE, 120 VOLT, GROUNDED TYPE, BLACK IN COLOR. SPECIAL APPLICATION RECEPTACLES SHALL BE AS INDICATED ON PLANS.

WEATHERPROOF RECEPTACLES (WP) W/IN-USE COVERS: SHALL BE VERTICAL MOUNT LEVITON 5976-DGY, INTERMATIC WP-1000RC OR EQUAL WITH A WEATHER-RESISTANT GFI RECEPTACLE. WHERE SUBJECT TO DAMAGE, A METALLIC BOX SHALL BE USED.

LIGHTING FIXTURES

THE EC SHALL RECEIVE, INSTALL, AND CONNECT LIGHT FIXTURES FURNISHED BY OWNER AS INDICATED ON THE DRAWINGS. THE CONTRACTOR SHALL ALSO COMMISSION THE LIGHT FIXTURES.

VERIFY CONSTRUCTION AND FIXTURE VOLTAGE BEFORE ORDERING OR INSTALLING FIXTURES.

SAFETY SWITCHES

SAFETY SWITCHES, UNLESS OTHERWISE INDICATED ON THE DRAWINGS, SHALL BE HEAVY DUTY TYPE, 250 VOLT, QUICK-MAKE, QUICK-BREAK, HORSEPOWER RATED, NEMA-1 ENCLOSURE OF THE NUMBER OF POLES REQUIRED. THE SWITCH SIZE SHALL BE AS REQUIRED BY CODE AND AS INDICATED ON THE DRAWINGS. WHERE OUTSIDE THE BUILDING, THE SWITCHES SHALL BE RAIN-TIGHT TYPE NEMA 3R ALL SWITCHES SHALL BE LOCKABLE.

FUSES

MOTORS SHALL BE PROTECTED BY DUAL-ELEMENT FUSES ABLE TO CARRY 500% OF RATING FOR A MINIMUM OF 10 SECONDS, UNLESS NOTED OTHERWISE, MOTOR FUSING SHALL BE SIZED AT 125% OF NAME PLATE RATING. FUSES SHALL BE OF THE TYPE, SIZE, AND RATING AS SCHEDULED ON THE DRAWINGS. ALL FUSES SHALL BE BUSSMAN-FUSETRON, FRN (250V), OR EQUAL. VERIFY FUSE AND SWITCH REQUIREMENTS WITH THE EQUIPMENT SUPPLIED.

PANELBOARDS

CIRCUIT BREAKER TYPE PANELBOARDS SHALL HAVE COPPER BUSS AND BE GENERAL ELECTRIC NLTQ, SQUARE D TYPE NQO, OR APPROVED EQUAL CUTLER HAMMER/EATON OR SIEMENS EQUIPMENT WITH VOLTAGE, SIZES AND RATINGS AS INDICATED ON DRAWINGS. PANELBOARDS SHALL BE RATED 120/208V, 3 PHASE, AND BE DEAD FRONT CONSTRUCTION, NO KNOCKOUTS WITH KEY LOCKED DOORS. MAIN BREAKERS/BUSS SHALL BE RATED A MINIMUM OF 1.2X THE AVAILABLE FAULT CURRENT OR AS INDICATED ON THE PANEL SCHEDULES/OR RISER DRAWINGS.

THE CIRCUIT BREAKERS SHALL BE OPERABLE IN ANY POSITION AND BE REMOVABLE FROM THE FRONT OF THE PANELBOARD WITHOUT DISTURBING THE ADJACENT UNITS. BRANCH BREAKERS SHALL BE OF SUCH DESIGN THAT COMBINATION OF SINGLE-POLE, DOUBLE-POLE AND THREE-POLE BREAKERS CAN BE ASSEMBLED ON THE SAME PANEL. EACH BRANCH CIRCUIT SHALL BE CLEARLY NUMBERED AND PLACED PER THE PANEL SCHEDULES. BRANCH AND MAIN TERMINALS SHALL BE OF THE SOLDERLESS TYPE. HANDLE TIES TO FORM MULTI-POLE BREAKERS ARE NOT ACCEPTABLE UNLESS UL APPROVED FOR THE ASSOCIATED BREAKERS. CIRCUIT BREAKERS SHALL BE THE BOLT ON TYPE WITH MIN. 12,000 AIC RATING AND MAY BE SERIES RATED PER MANUFACTURER.

PROVIDE A TYPEWRITTEN CIRCUIT INDEX BEHIND CLEAR PLASTIC COVER ON INSIDE OF DOOR. INFORMATION SHALL INCLUDE ROOM AND TYPE OF LOAD SERVED. ALL CIRCUIT BREAKERS SHALL BE IDENTIFIED, INCLUDING SPARES. INDEX CARD FRAME SHALL BE METAL, SECURED TO DOOR. BREAKERS SHALL BE INSTALLED IN THE POSITION INDICATED ON SCHEDULES.

PANELS LOCATED OUTDOORS SHALL BE SURFACE-MOUNTED WITHIN A NEMA 3R ENCLOSURE WITH ALL PENETRATIONS LOCATED ON THE BOTTOM OF THE PANEL.

MOTOR WIRING

ALL MOTORS SHALL BE WIRED TO CONFORM WITH MANUFACTURERS' RECOMMENDATIONS AND WITH APPLICABLE CODES. FURNISH NECESSARY MATERIALS, SUCH AS WIRE, CONDUIT, FITTINGS, ETC. REQUIRED BY THE SUPPLIER OF THE DRIVEN EQUIPMENT. VERIFY EQUIPMENT LOCATION AND SIZES WITH THE TRADE SUPPLYING THE MOTOR BEFORE INSTALLING THE CONDUIT OR OUTLETS.

TELEPHONE/DATA/TV RACEWAY SYSTEM

TELEPHONE/DATA/TV OUTLETS LOCATED OUTDOORS SHALL CONSIST OF A STANDARD NEMA 3R, 6"x6" BOXES MOUNTED 18" ABOVE THE GROUND. INSTALL A 3/4" PVC/GRC CONDUIT SHALL BE RATED FROM THE EQUIPMENT/OUTLET TO THE CROW'S NEST.

ALL WIRING SHALL BE CONCEALED WITHIN RACEWAYS OR BUILDING CONSTRUCTION, FISHED AS REQUIRED.

TELEPHONE/DATA WIRING/CONNECTIVITY

PROVIDE 1,2,3 OR 4 COMM-JACKS AND WIRING FROM OUTLET TO THE CROW'S NEST. EACH DATA/TELEPHONE CABLE/COMPONENT SHALL BE CATEGORY 5, CERTIFIABLE TO 350 MHZ OSP RATED AND RATED FOR DIRECT BURIAL. ALL WIRING SHALL BE CONCEALED WITHIN RACEWAYS OR BUILDING CONSTRUCTION, FISHED AS REQUIRED.

GUARANTEE

GUARANTEE ALL MATERIAL FURNISHED AND ALL WORKMANSHIP PERFORMED FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE WORK. ANY DEFECTS DEVELOPING WITHIN THIS PERIOD, TRACEABLE TO MATERIAL FURNISHED AS A PART OF THIS SECTION OR WORKMANSHIP PERFORMED HERE UNDER, SHALL BE REPLACED, REPAIRED OR ALTERED AT NO EXPENSE TO THE OWNER.

SHOP DRAWINGS AND APPROVALS

THE ITEMS SPECIFIED HEREIN AND ON DRAWINGS ARE USED AS A STANDARD OF QUALITY. ANY MATERIALS OF EQUAL QUALITY AND AESTHETIC VALUE WILL BE GIVEN CONSIDERATION AS A SUBSTITUTE FOR THE MATERIALS SPECIFIED. SUBMITTALS FOR PRIOR APPROVAL WILL BE ACCEPTED NO LESS THAN 3 DAYS. THE DECISION OF THE ARCHITECT AND/OR ENGINEER, DETERMINING EQUAL MATERIALS, WILL BE FINAL.

THE CONTRACTOR SHALL SUBMIT TWO (2) IDENTICAL BOUND SETS OF SHOP DRAWINGS. SHOP DRAWING SUBMITTALS SHALL INCLUDE MANUFACTURER'S NAME AND ADDRESS, EQUIPMENT OR MATERIAL DESCRIPTIVE NAMES AND CATALOG NUMBER. SHOP DRAWINGS SHALL INDICATE DIMENSIONS, VOLTAGE, AND CURRENT CHARACTERISTICS, WIRE SIZES, TEST AND CONFORMANCE DATA, CONSTRUCTION AND ROUGH-IN DATA OF ALL MATERIALS TO BE USED.
SHOP DRAWINGS SHALL BE PROVIDED FOR, BUT NOT LIMITED TO, THE FOLLOWING LIST OF EQUIPMENT:
a. WIRING DEVICES
b. PANELBOARDS
c. LIGHT FIXTURES

OPERATING AND MAINTENANCE MANUALS

AT COMPLETION OF THIS PROJECT, SUBMIT (2) SETS ELECTRICAL EQUIPMENT OPERATING AND MAINTENANCE MANUALS, INCLUDING PARTS LISTS, BOUND IN HARD COVERED MANUALS. MANUALS SHALL BE LABELED WITH LOCAL SUPPLIER'S CONTACT INFORMATION. INFORMATION NOT DEFINITELY APPLYING TO THESE PARTICULAR PIECES OF EQUIPMENT SHALL BE CROSSED OUT.

PROJECT RECORD DRAWINGS

CONTRACTOR SHALL MAINTAIN A SET OF RECORD AS-BUILT DRAWINGS AT THE JOB SITE, RECORDING ANY CHANGES OR DEVIATIONS FROM THE CONTRACT DRAWINGS AS WORK PROGRESSES AND AVAILABLE FOR INSPECTION BY THE ENGINEER, ARCHITECT OR OWNER AT ANY TIME. UPON COMPLETION OF WORK, UP-TO-DATE AS-BUILT DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER.

CONSTRUCTION TESTING

UPON COMPLETION, SUBJECT WORK TO SUCH TESTS AS ARE REQUIRED UNDER INDUSTRY STANDARDS AND/OR SPECIFIED HEREIN. PERFORM TESTS TO DEMONSTRATE PROPER FUNCTIONING OF ALL EQUIPMENT AND DEVICES. TESTS SHALL BE RECORDED AND THE REPORTS SUBMITTED TO THE ENGINEER, INCLUDING:

1. APPROVED FINAL INSPECTION REPORTS FROM BUILDING OFFICIALS.

REGISTERED PROFESSIONAL ENGINEER
JOHN B. STAMPE
SOUTH DAKOTA
5-1-21

3202 W. MAIN, SUITE C
RAPID CITY, SOUTH DAKOTA 57702
605.343.9606
Albertson Engineering Inc.
CONSULTANT

CA
chamberlin
725 St. Joseph Street, Suite B1
Rapid City, SD 57701
605.355.6804

SKYLINE ENGINEERING LLC
615 12th Street
Rapid City, SD 57701
Tel: 605.737.3800
Fax: 605.737.3859
SE Project 20026

PROJECT IDEN:

DAYS OF '76 CROW'S NEST ADDITION

DEADWOOD, SOUTH DAKOTA

ISSUE BLOCK:

NO	ISSUE TYPE	ISSUE DATE
CD	100% CD	05/14/21

MANAGEMENT:

PROJECT NO: 1810

DRAWN BY: SMD

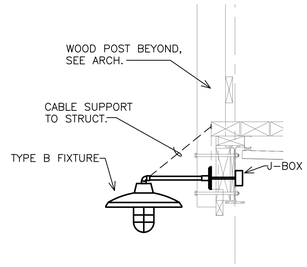
CHECKED BY: JBS

SHEET TITLE:

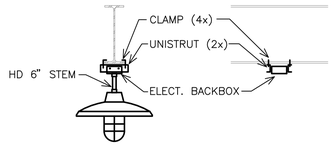
ELECTRICAL SPECIFICATIONS

SHEET IDENTIFICATION:

E001



2 E101 GOOSENECK LIGHT DETAIL - TYPE B
N.T.S.



3 E101 TYPE A LIGHT INSTALL DETAIL
N.T.S.

GENERAL NOTES
(THIS SHEET ONLY)

A. COORDINATE LOCATIONS OF LIGHT FIXTURES WITH ARCHITECTURAL PLANS, ELEVATIONS AND DETAILS.

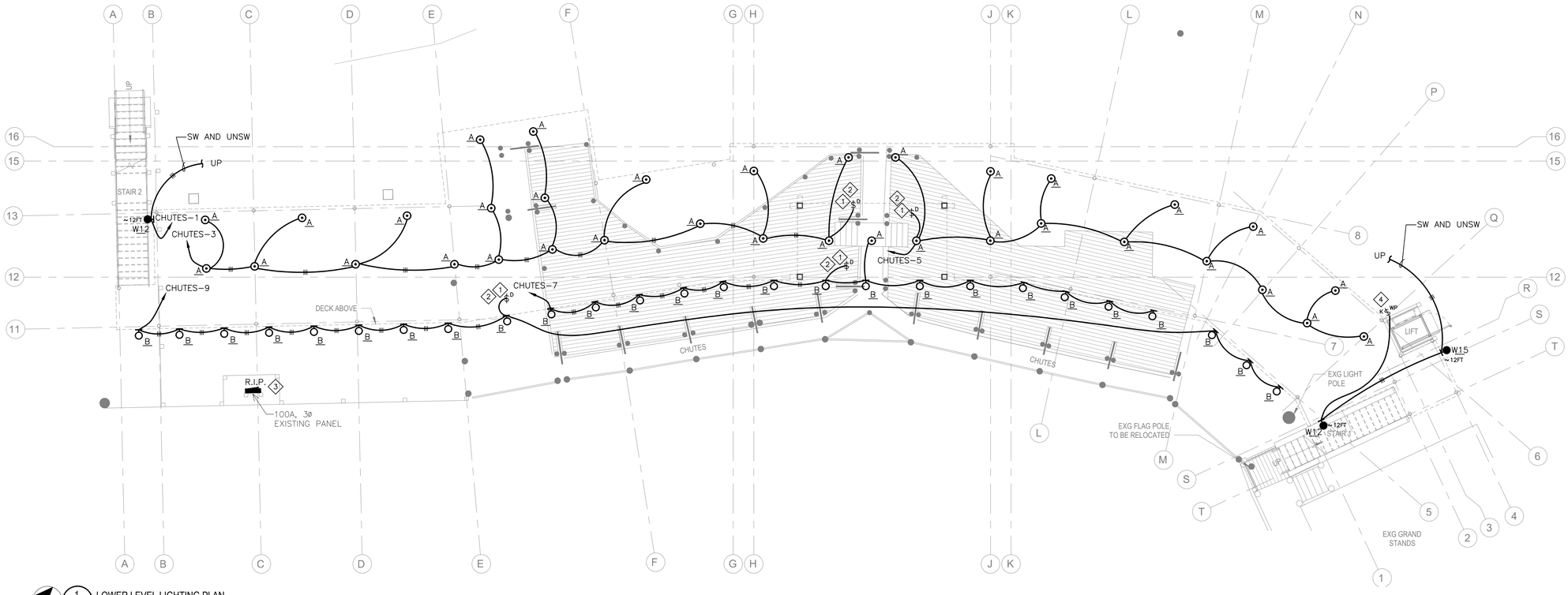
B. CONTRACTOR TO COORDINATE INSTALLATION WITH EXISTING CONDITIONS AND OTHER TRADES.

C. NEUTRAL CONDUCTOR REQUIRED TO EACH LIGHT SWITCH BOX – CODE.

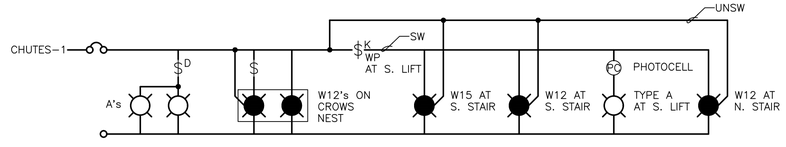
D. EXISTING CIRCUITING OR DEVICES SHOWN IS DERIVED FROM ON–SITE OBSERVATION AND RECORD DRAWINGS. EC SHALL CONFIRM.

KEYED NOTES
(THIS SHEET ONLY)

1. LOCATE SWITCH IN CROWS NEST AS DIRECTED BY OWNER. SEE DETAIL.
2. DIMMER SWITCHES FOR TAPE LIGHT FIXTURES SHALL BE LUTRON DVEL–300P.
3. FENCE TO BE REWORKED TO MAKE PANEL ACCESSIBLE.
4. KEYED WP SWITCH AS OVER–RIDE OFF FOR STAIRS 1 AND 2, W15 FIXTURE AND TYPE A FIXTURE OVER THE LIFT. SEE DETAILS.



1 E101 LOWER LEVEL LIGHTING PLAN
1/8" = 1'-0"



4 E101 CHUTES-1, STAIRS AND LIFT LIGHTING DIAGRAM
N.T.S.

REGISTERED PROFESSIONAL ENGINEER
STATE OF SOUTH DAKOTA
5-14-21

3202 W. MAIN, SUITE C
RAPID CITY, SOUTH DAKOTA 57702
605.343.9606
Albertson Engineering Inc.
CONSULTANT

chamberlin
725 St. Joseph Street, Suite B1
Rapid City, SD 57701
605.355.6804

SKYLINE ENGINEERING LLC
615 12th Street
Rapid City, SD 57701
Tel: 605.737.3800
Fax: 605.737.3859
SE Project 20026

PROJECT IDEN:

DAYS OF '76 CROW'S NEST ADDITION

DEADWOOD, SOUTH DAKOTA

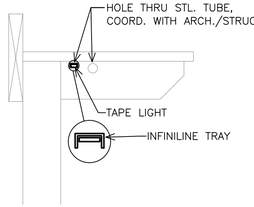
ISSUE BLOCK:

NO	ISSUE TYPE	ISSUE DATE
CD	100% CD	05/14/21

MANAGEMENT:
PROJECT NO: 1810
DRAWN BY: SMD
CHECKED BY: JBS

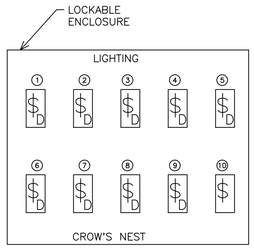
SHEET TITLE:
LOWER LEVEL - LIGHTING PLAN

SHEET IDENTIFICATION:
E101



2 E102 TAPE LIGHT DETAIL

N.T.S.



3 E102 SWITCH BANK DETAIL

N.T.S.

SWITCHES LEGEND

1. DECK TOP LIGHTING NORTH OUTSIDE
2. DECK TOP LIGHTING NORTH INSIDE
3. DECK TOP LIGHTING SOUTH INSIDE
4. DECK TOP LIGHTING SOUTH OUTSIDE
5. CROW'S NEST OUTSIDE LIGHTS
6. CHUTE CENTER LIGHTS
7. CHUTE OUTER LIGHTS
8. UNDER DECK LIGHTS NORTH
9. UNDER DECK LIGHTS SOUTH
10. CROW'S NEST EM OUTSIDE LIGHTS, OVER-RIDE OFF.

NOTE:

- DIMMING LIGHT SWITCHES ARE ALL 1-POLE, MIN. 250V, LINE-VOLTAGE DIMMING. MOUNT INSIDE 20"x16"x8" LOCKABLE ENCLOSURE. ATTACH PERMANENT LABELS AS SHOWN.

SEE KEYNOTES 2 3

GENERAL NOTES
(THIS SHEET ONLY)

A. COORDINATE LOCATIONS OF LIGHT FIXTURES WITH ARCHITECTURAL PLANS, ELEVATIONS AND DETAILS.

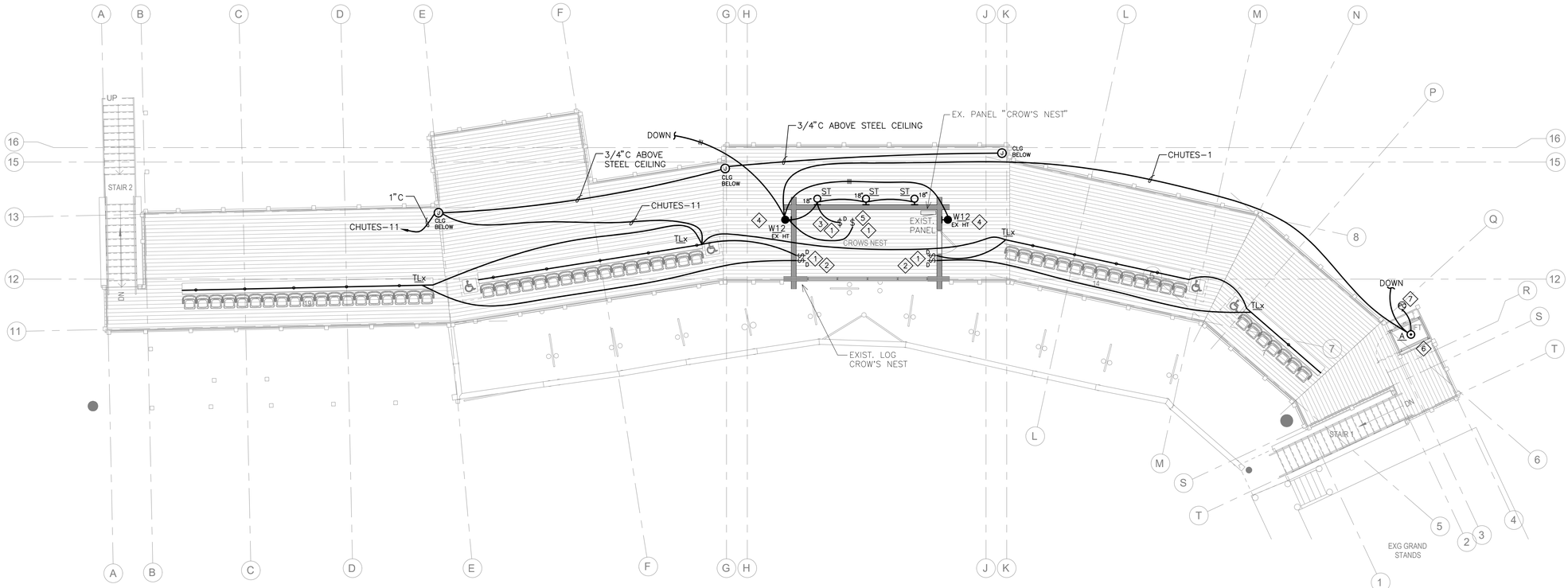
B. CONTRACTOR TO COORDINATE INSTALLATION WITH EXISTING CONDITIONS AND OTHER TRADES.

C. NEUTRAL CONDUCTOR REQUIRED TO EACH LIGHT SWITCH BOX – CODE.

D. EXISTING CIRCUITING OR DEVICES SHOWN IS DERIVED FROM ON-SITE OBSERVATION AND RECORD DRAWINGS. EC SHALL CONFIRM.

KEYED NOTES
(THIS SHEET ONLY)

1. LOCATE SWITCH IN CROWS NEST AS DIRECTED BY OWNER. SEE DETAIL.
2. DIMMER SWITCHES FOR TAPE LIGHT FIXTURES SHALL BE LUTRON DVEL-300P.
3. DIMMER SWITCHES FOR A-LAMPS SHALL BE A 450-WATT LED LEVITON DIMMER, MODEL DSM10-ILZ AS LISTED COMPATIBLE WITH SATCO A-21 LED AS LAMP, MODEL S8735. DIMMERS SHALL PROVIDE SMOOTH AND FLICKER-FREE CONTROL FROM 25% TO 100% OF RATED LAMP LUMENS.
4. REPLACE EXISTING WALLPACK. RE-USE CIRCUITING TO EXTENT POSSIBLE, PROVIDING WIRING/CONTROLS CAN BE RECONFIGURED PER THIS DESIGN.
5. PROVIDE AN OVER-RIDER OFF SWITCH TO SHUT OFF THE CROW'S NEST EM WALLPACKS. LOSS OF UNSWITCHED NORMAL POWER WILL TURN THE FIXTURES BACK ON, POWERED FROM THE INTEGRAL BATTERY.
6. INSTALL ON SLOPED STRUCTURE VIA BLACK PAINTED CANOPY.
7. INSTALL 20AMP ADJUSTABLE PHOTOCELL UP HIGH TO AUTO CONTROL THIS FIXTURE.



1 E102 UPPER LEVEL LIGHTING PLAN

1/8" = 1'-0"

3202 W. MAIN, SUITE C
RAPID CITY, SOUTH DAKOTA 57702
605.343.9606
Albertson Engineering Inc.
CONSULTANT

chamberlin
725 St. Joseph Street, Suite B1
Rapid City, SD 57701
605.355.6804

SKYLINE ENGINEERING LLC
615 12th Street
Rapid City, SD 57701
Tel: 605.737.3800
Fax: 605.737.3859
SE Project 20026

PROJECT IDEN:

DAYS OF '76 CROW'S NEST ADDITION

DEADWOOD, SOUTH DAKOTA

ISSUE BLOCK:

NO	ISSUE TYPE	ISSUE DATE
	CD 100% CD	05/14/21

MANAGEMENT:

PROJECT NO: 1810

DRAWN BY: SMD

CHECKED BY: JBS

SHEET TITLE:

UPPER LEVEL - LIGHTING PLAN

SHEET IDENTIFICATION:

E102

GENERAL NOTES
(THIS SHEET ONLY)

A. COORDINATE ALL WORK AND DEVICE LOCATION WITH OTHER TRADES, ARCHITECTURAL DRAWINGS, ELEVATIONS AND CASEWORK.

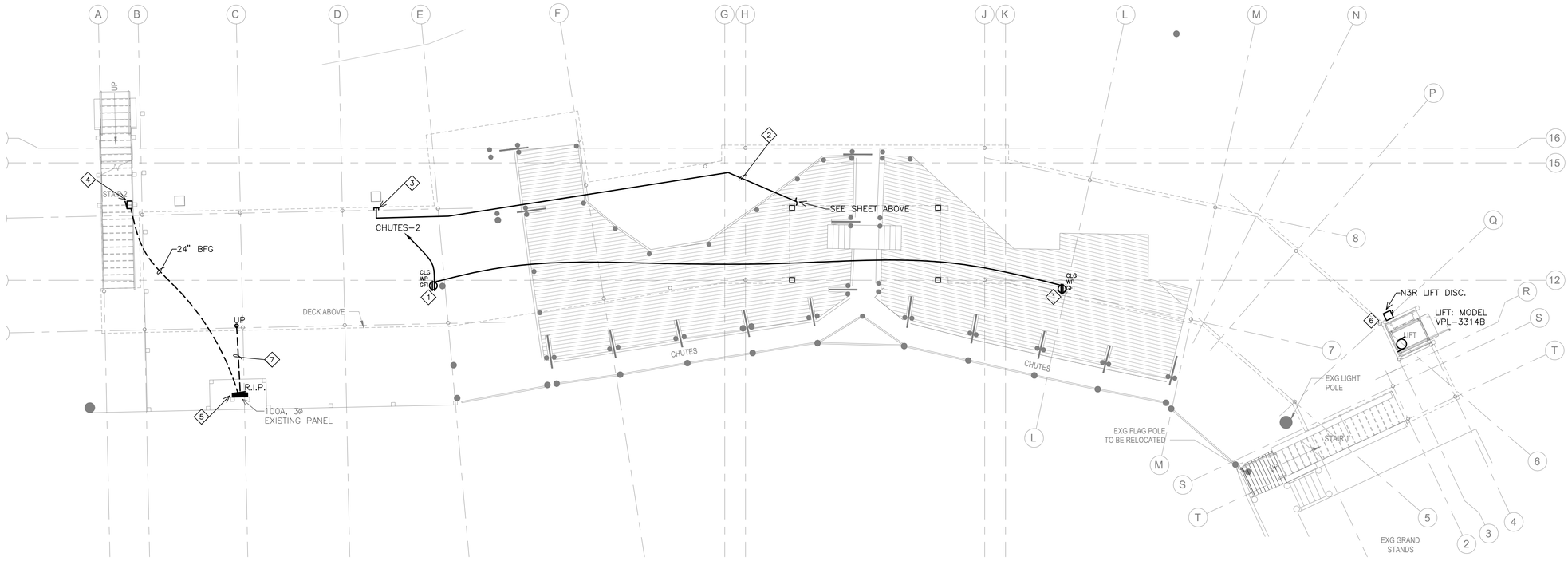
B. VERIFY EQUIPMENT CONNECTION REQUIREMENTS WITH EQUIPMENT SHOP DRAWINGS.

C. ALL RECEPTACLES WITHIN PUBLIC AREAS OR ACCESSIBLE TO CHILDREN AGES 6 AND LESS MUST BE TAMPER RESISTANT.

D. ANY EXISTING CIRCUITING OR DEVICES SHOWN IS DERIVED FROM ON-SITE OBSERVATION AND RECORD DRAWINGS. EC SHALL CONFIRM.

KEYED NOTES
(THIS SHEET ONLY)

1. INSTALL DEVICE ON STEEL SUPPORTING STEEL DECK. COORDINATE INSTALL WITH ARCHITECTURAL DETAILS AND ELEVATIONS.
2. ROUTE 3" PVC CONDUIT DIRECTLY BELOW GRANDSTAND DECK FOR FIBER OPTICS FROM CROWS NEST TO PORTABLE SCOREBOARD. PROVIDE A 200LB PULL CORD. FIBER BY OTHERS. FINISH SHALL BE BLACK EPOXY PAINT.
3. INSTALL AND CAP AT APPROXIMATELY 15FT AFG. CAP, COIL 20FT OF PULL CORD BEHIND CAP.
4. 60A CAMLOCK, 208V/120V, 3ø BOX. SEE RISER. LOCATE UNDER STAIR LANDING. SHALL BE BLACK EPOXY PAINT.
5. 150A, 208V/120V, 3ø NEMA 3R, PANELBOARD. NAME AS "CHUTES". REPLACE EX. PANEL WIN PLACE. FINISH SHALL BE BLACK EPOXY PAINT. SEE RISER.
6. MAKE CONNECTION TO LIFT CONTROLLER. WIRE (1) OSP CAT 5 CABLE FROM LIFT CONTROLLER TO CROW'S NEST.
7. ROUTE BRANCH CIRCUIT UNDERGROUND TO BEHIND (EAST) OF EXIST/NEW POST SUPPORTING DECK ABOVE AND THEN UP TO DECK.



1 E201 LOWER LEVEL POWER AND SYSTEMS PLAN
1/8" = 1'-0"

REGISTERED PROFESSIONAL ENGINEER
JOSEPH B. STAMPE
SOUTH DAKOTA
5-14-21

3202 W. MAIN, SUITE C
RAPID CITY, SOUTH DAKOTA 57702
605.343.9606
Albertson Engineering Inc.

CONSULTANT

chamberlin
725 St. Joseph Street, Suite B1
Rapid City, SD 57701
605.355.6804

SKYLINE ENGINEERING LLC
615 12th Street
Rapid City, SD 57701
Tel: 605.737.3800
Fax: 605.737.3859
SE Project 20026

PROJECT IDEN:

DAYS OF '76 CROW'S NEST ADDITION

DEADWOOD, SOUTH DAKOTA

ISSUE BLOCK:

NO	ISSUE TYPE	ISSUE DATE
CD	100% CD	05/14/21

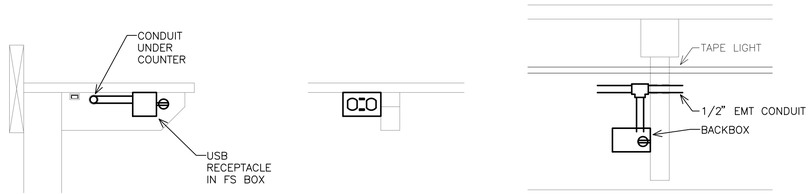
MANAGEMENT:
PROJECT NO: 1810
DRAWN BY: SMD
CHECKED BY: JBS

SHEET TITLE:

LOWER LEVEL - POWER AND SYSTEMS PLAN

SHEET IDENTIFICATION:

E201



2 / E202 RECEPTACLE DETAIL
N.T.S.

GENERAL NOTES
(THIS SHEET ONLY)

A. COORDINATE ALL WORK AND DEVICE LOCATION WITH OTHER TRADES, ARCHITECTURAL DRAWINGS, ELEVATIONS AND CASEWORK.

B. VERIFY EQUIPMENT CONNECTION REQUIREMENTS WITH EQUIPMENT SHOP DRAWINGS.

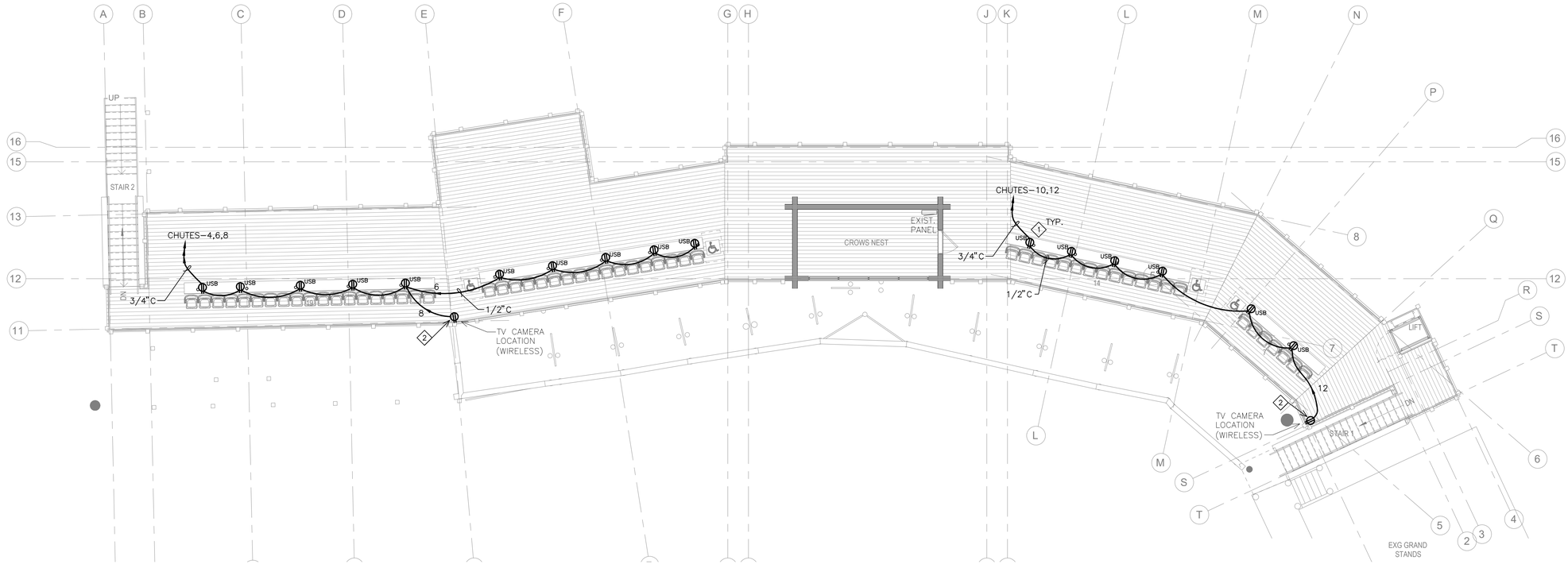
C. ALL RECEPTACLES WITHIN PUBLIC AREAS OR ACCESSIBLE TO CHILDREN AGES 6 AND LESS MUST BE TAMPER RESISTANT.

D. ANY EXISTING CIRCUITING OR DEVICES SHOWN IS DERIVED FROM ON-SITE OBSERVATION AND RECORD DRAWINGS. EC SHALL CONFIRM.

KEYED NOTES
(THIS SHEET ONLY)

1. PROVIDE TAMPER-PROOF DUPLEX RECEPTACLE WITH DUPLEX USB CHARGING OUTLET IN AN FS BOX UNDER COUNTER. GFI PROTECTION FOR EQUIPMENT WILL BE IN THE BREAKER.

2. PROVIDE A DUPLEX GFCI RECEPTACLE IN A "IN-USE" BOX, SUPPORTED AT 6" AFF ON THE SIDE OF THE RAIL POST.



1 / E202 UPPER LEVEL POWER AND SYSTEMS PLAN
1/8" = 1'-0"

REGISTERED PROFESSIONAL ENGINEER
JOSEPH B. SMITH
STAMPE
SOUTH DAKOTA
5-14-21

3202 W. MAIN, SUITE C
RAPID CITY, SOUTH DAKOTA 57702
605.343.9606
Albertson Engineering Inc.
CONSULTANT

chamberlin
725 St. Joseph Street, Suite B1
Rapid City, SD 57701
605.355.6804

SKYLINE ENGINEERING LLC
615 12th Street
Rapid City, SD 57701
Tel: 605.737.3800
Fax: 605.737.3859
SE Project 20026

PROJECT IDEN:

DAYS OF '76 CROW'S NEST ADDITION

DEADWOOD, SOUTH DAKOTA

ISSUE BLOCK:

NO	ISSUE TYPE	ISSUE DATE
CD	100% CD	05/14/21

MANAGEMENT:

PROJECT NO: 1810

DRAWN BY: SMD

CHECKED BY: JBS

SHEET TITLE:

UPPER LEVEL - POWER AND SYSTEMS PLAN

SHEET IDENTIFICATION:

E202

LIGHT FIXTURE SCHEDULE

FIXTURE TYPE	FIXTURE DESCRIPTION (FEATURES)	VOLTS	MOUNTING	LAMPS	CONTROL MEDIA: LENS, LOUVERS, ETC.	MFR.	CATALOG NUMBER	FIXTURE COLOR/ FINISH	MIN. FIXTURE CRI	UV LENS OR LAMP COVER	LIGHT LOSS FACTOR (5% TOL.)	DESIGNED FIXTURE EFFICACY	MAX WATTS INTO FIXTURE	MIN. LUMENS OUT OF FIXTURE	MIN. RESULTANT EFFICACY	SPECIFIC NOTES
A	STEM MOUNT PENDANT FIXTURE WITH LED LAMP, E26 BASE	UNIVERSAL	6" STEM, HEAVY DUTY	2700K, DIMMABLE 20W LED LAMP EQUAL TO SATCO S8735	WIRE GUARD AND CLEAR GLASS	BARN LIGHT	MARATHON SERIES: BLE-S-YDM16-100-ST506-100-NA-WGG-100-CLR-HDSMC-E26	POWDER COAT BLACK	84	GLASS	0.95	75	20	2,070	72	1,2,3
B	GOOSENECK MOUNTED WITH LED LAMP, E26 BASE	UNIVERSAL	GOOSENECK BRACKET	2700K, DIMMABLE 20W LED LAMP EQUAL TO SATCO S8735	WIRE GUARD AND CLEAR GLASS	BARN LIGHT	MARATHON SERIES: BLE-G-YDM16-100-G64-100-NA-WGG-100-CLR-DBPC-E26	POWDER COAT BLACK	84	GLASS	0.95	75	20	2,070	72	1,2,3
TLx	LED STRIP LIGHT, VERIFY LENGTH IN FIELD	UNIVERSAL	MOUNTING CHANNEL, SATIN BLACK	INTEGRAL LED, 3000K	DIMMABLE, OUTDOOR/WET LOCATION RATED STRIP LIGHT	DIODE LED	INFINILINE BASICS: DI-120V-INFBSC3-30-H-XX-CHA	WHITE	90+	NONE	0.95	80	3.7/FT	270		2,3,4
	LED STEP LIGHT FIXTURES															
ST	LED STEP LIGHT, ENCAPSULATED	120V	STANDARD BACKBOX	INTEGRAL LED, 3000K	DIMMABLE, OUTDOOR/WET LOCATION RATED STEP LIGHT	PROGRESS LIGHTING	P6832 - 120V	BLACK	80+	NONE	0.95	21	5	59	20	2
	LED WALLPACKS AND SOFFIT FIXTURES															
W12	2000 LUMENS, LOW-PROFILE WALL PACK, FULL CUTOFF, LED, TYPE III DISTRIBUTION, INTEGRAL 4K SURGE PROTECTION, INTEGRAL PHOTO CELL, EM BATTERY PACK	120/277	WALL/SURFACE	INTEGRAL LED, 3000K	DIE-CASE ALUMINUM HOUSING, TYPE 3 DISTRIBUTION, B1-U0-G1 BUG RATING, COMFORT SCHIELD, BUTTON TYPE PHOTOCONTROL	ILLUM SYS - McGRAW EDISON		BLACK	70	NONE	0.90	107	14	1,350	103	2,3
						LUMEN FX - LITHONIA										
						MLAZGAR - HUBBELL	LNC2-12L-3K-035-3-U-BL-PCU-8F-EH-CS									
						WYOMING LTG										
						HOLOPHANE LTG										
W15	4000 LUMENS, LOW-PROFILE WALL PACK, FULL CUTOFF, LED, TYPE II DISTRIBUTION, INTEGRAL 4K SURGE PROTECTION, INTEGRAL PHOTO CELL, EM BATTERY PACK	120/277	WALL/SURFACE	INTEGRAL LED, 3000K	DIE-CASE ALUMINUM HOUSING, TYPE 2 DISTRIBUTION, B1-U0-G1 BUG RATING, BUTTON TYPE PHOTOCONTROL	ILLUM SYS - McGRAW EDISON		BLACK	70	NONE	0.90	86	43	3,330	83	2,3
						LUMEN FX - LITHONIA										
						MLAZGAR - HUBBELL	LNC2-18L-3K-070-2-U-BL-PCU-20F-EH									
						WYOMING LTG										
						HOLOPHANE LTG										

GENERAL NOTES:

A. LAMPS OF THE SAME TYPE MUST BE FROM THE SAME MANUFACTURER.

B. UNLESS A SPECIFIC CATALOG NUMBER OR SERIES IS LISTED, PROPOSED ALTERNATE MANUFACTURERS' FIXTURE CUTSHEETS AND PHOTOMETRIC REPORTS MUST BE SUBMITTED TO THE ENGINEER AT LEAST 10 DAYS PRIOR TO BID DATE. IF THE SUBMITTED FIXTURE IS DETERMINED NOT TO BE EQUAL OR BETTER BY THE ENGINEER IT WILL NOT BE APPROVED BY ADDENDUM.

C. WHEN THE VOLTAGE IS INDICATED AS 120/277, PROVIDE MULTIVOLT BALLASTS CAPABLE OF OPERATING AT 120V OR 277V.

D. ALL FIXTURES TO BE 120/277V UNLESS NOTED AS ONE VOLTAGE. ALL FIXTURES/LAMPS TO BE 2700k OR 3000K +/- 5%. All PROPOSED EQUALS MUST HAVE ESSENTIALLY EQUAL OPTICS/PATTERN.

E. THE MANUFACTURER AND CATALOG NUMBER LISTED FOR ALL FIXTURES IS THE BASIS OF DESIGN (BOD). ANY PRIOR APPROVALS MUST BE COMPAIRED TO THE BOD FIXTURE.

SPECIFIC NOTES:

1. LISTED FOR DAMP LOCATION.
2. LISTED FOR WET LOCATION.
3. CONFIRM MOUNTING BRACKET WITH FIXTURE CUTSHEETS/MANUFACTURER PRIOR TO ORDERING.
4. PROVIDE INFINITE MOUNTING CHANNEL TO SUPPORT THE LED TAPE LIGHT. SECURE AT AN INTERVAL OF NOT MORE THAN 12". IF TAPE IS NOT FIELD CUTTABLE, THE EC MUST SCALE AND ORDER PER ANTICIPATED INSTALLATION. LOW-VOLTAGE CONNECTIONS IS SECURED TO TAPE LIGHT FOR EXTERNAL MOUNTING. SECURE.

REGISTERED PROFESSIONAL ENGINEER
JOSEPH B. STAMPE
SOUTH DAKOTA
5-14-21

3202 W. MAIN, SUITE C
RAPID CITY, SOUTH DAKOTA 57702
605.343.9606
Albertson Engineering Inc.

CONSULTANT

chamberlin
725 St. Joseph Street, Suite B1
Rapid City, SD 57701
605.355.6804

SKYLINE ENGINEERING LLC
615 12th Street, Rapid City, SD 57701
Tel: 605.737.3800 Fax: 605.737.3859
SE Project 20026

PROJECT IDEN:

DAYS OF '76 CROW'S NEST ADDITION

DEADWOOD, SOUTH DAKOTA

ISSUE BLOCK:

NO	ISSUE TYPE	ISSUE DATE
CD	100% CD	05/14/21

MANAGEMENT:

PROJECT NO: 1810

DRAWN BY: SMD

CHECKED BY: JBS

SHEET TITLE:

ELECTRICAL SCHEDULES

SHEET IDENTIFICATION:

E400

RISER CONDUIT/WIRE FEEDER SCHEDULE–COPPER

(60) 60A–3P (1)1 1/4"C WITH (4)#4 AND (1)#10 GND

(150S) 150A–3P 2"C WITH (4)#1/0 AND (1)#6 GND

XFMR SECONDARY
120/208V 3PH

APPLICATION NOTE:
A. FEEDER SCHEDULE DOES NOT REFLECT REQUIRED TEMPERATURE DE–RATINGS OR VOLTAGE DROP.

B. WHERE RISER INDICATES A "+" AFTER THE FEEDER AMPACITY WITHIN THE MARK, SUCH AS (400+), THE FEEDER SIZE SHALL BE INCREASED BY ONE WIRE SIZE FOR EACH "+" SYMBOL. INCREASE GROUND AND CONDUIT ACCORDINGLY.

C. RISER INDICATES A SERVICE LATERAL WITH AN "S" AFTER THE AMPACITY VALUE. NO GROUND CONDUCTORS REQUIRED WITHIN THE SERVICE LATERAL.

GENERAL NOTES:

A. LABEL PER NEC AND OWNER DIRECTIVES.

SPECIFIC NOTES:

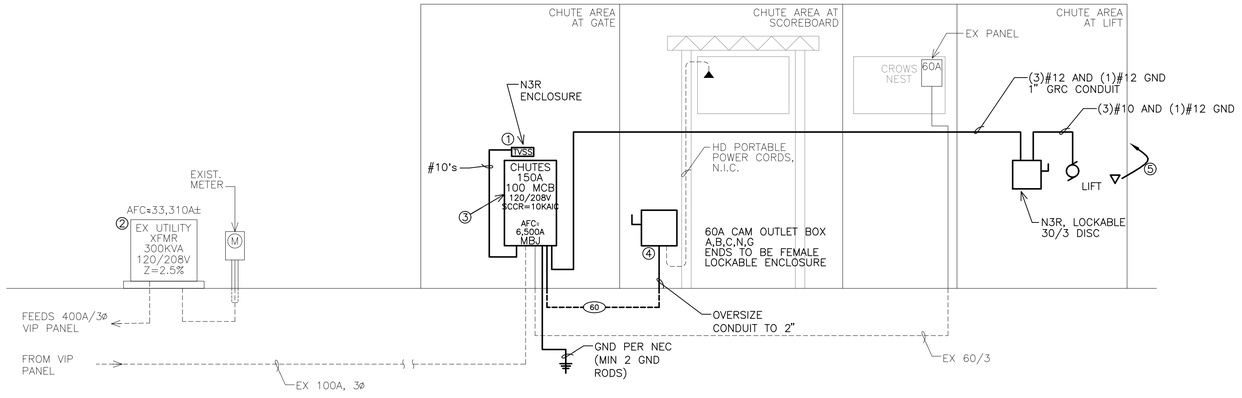
① TVSS UNIT SHALL BE EQUAL TO EATON MODEL 560 WITH SURGE COUNTER AND AUDIBLE ALARM SURGE RATING ON MAIN SHALL BE 200KA/400KA.

② TRANSFORMER LOCATED ALONG CRESCENT DRIVE.

③ REPLACE EXISTING 100/3 IN PLACE WITH 150/3.

④ 60AMP CAM OUTLET BOX EQUAL TO LEX POWERGATE, 10KAIC RATED.

⑤ OSP – CAT 5 TO CROW'S NEST.



1 / E500 POWER RISER
N.T.S.

PANEL CHUTES

120/208V, 3 PHASE, 4 WIRE, 150 AMP FRAME, 100A M.C.B., SURFACE MOUNTED, N3R, 10KAIC

LOAD	POLES	AMPS	CCT	PHASE	CCT	AMPS	POLES	LOAD
LTG - STAIR LIGHTS AND BACK OF CROW'S NEST	20	1	1	A	2	20 *	1	REC - UNDER DECK CEILING
LTG - UNDER DECK NORTH	20	1	3	B	4	20 *	1	REC - UNDER BARTOP NORTH
LTG - UNDER DECK - SOUTH	20	1	5	C	6	20 *	1	REC - UNDER BARTOP NORTH
LTG - CHUTE FRONT CENTER	20	1	7	A	8	20	1	REC - TV CAMERA NORTH
LTG - CHUTE FRONT SIDES	20	1	9	B	10	20 *	1	REC - UNDER BARTOP SOUTH
LTG - BAR TOPS	20	1	11	C	12	20	1	REC - TV CAMERA SOUTH
SPARE	20 *	1	13	A	14	20	1	PLATFORM LIFT
SPARE	20 *	1	15	B	16	--	--	SPACE
SPACE	--	--	17	C	18	--	--	SPACE
SPACE	--	--	19	A	20	20	1	EX LOAD
SPACE	--	--	21	B	22	60	2	EX LOAD - CROW'S NEXT PANEL
EX LOAD	50 *	2	23	C	24	--	--	--
--	--	--	25	A	26	60	3	SCOREBOARD CAM OUTLET
EX LOAD	50 *	2	27	B	28	--	--	
--	--	--	29	C	30	--	--	

Remarks: SERVICE ENTRANCE RATED
* DENOTES GFCI PROTECTION - 5mA

REGISTERED PROFESSIONAL ENGINEER
JOHN B. STAMPE
SOUTH DAKOTA
5-14-21

3202 W. MAIN, SUITE C
RAPID CITY, SOUTH DAKOTA 57702
605.343.9606

Albertson Engineering Inc.

CONSULTANT

chamberlin
725 St. Joseph Street, Suite B1
Rapid City, SD 57701
605.355.6804

SKYLINE ENGINEERING LLC
615 12th Street
Rapid City, SD 57701
Tel: 605.737.3800
Fax: 605.737.3859
SE Project 20026

PROJECT IDEN:

DAYS OF '76 CROW'S NEST ADDITION

DEADWOOD, SOUTH DAKOTA

ISSUE BLOCK:

NO	ISSUE TYPE	ISSUE DATE
CD	100% CD	05/14/21

MANAGEMENT:

PROJECT NO: 1810

DRAWN BY: SMD

CHECKED BY: JBS

SHEET TITLE:

ELECTRICAL RISER, PANEL SCHEDULE AND DETAILS

SHEET IDENTIFICATION:

E500