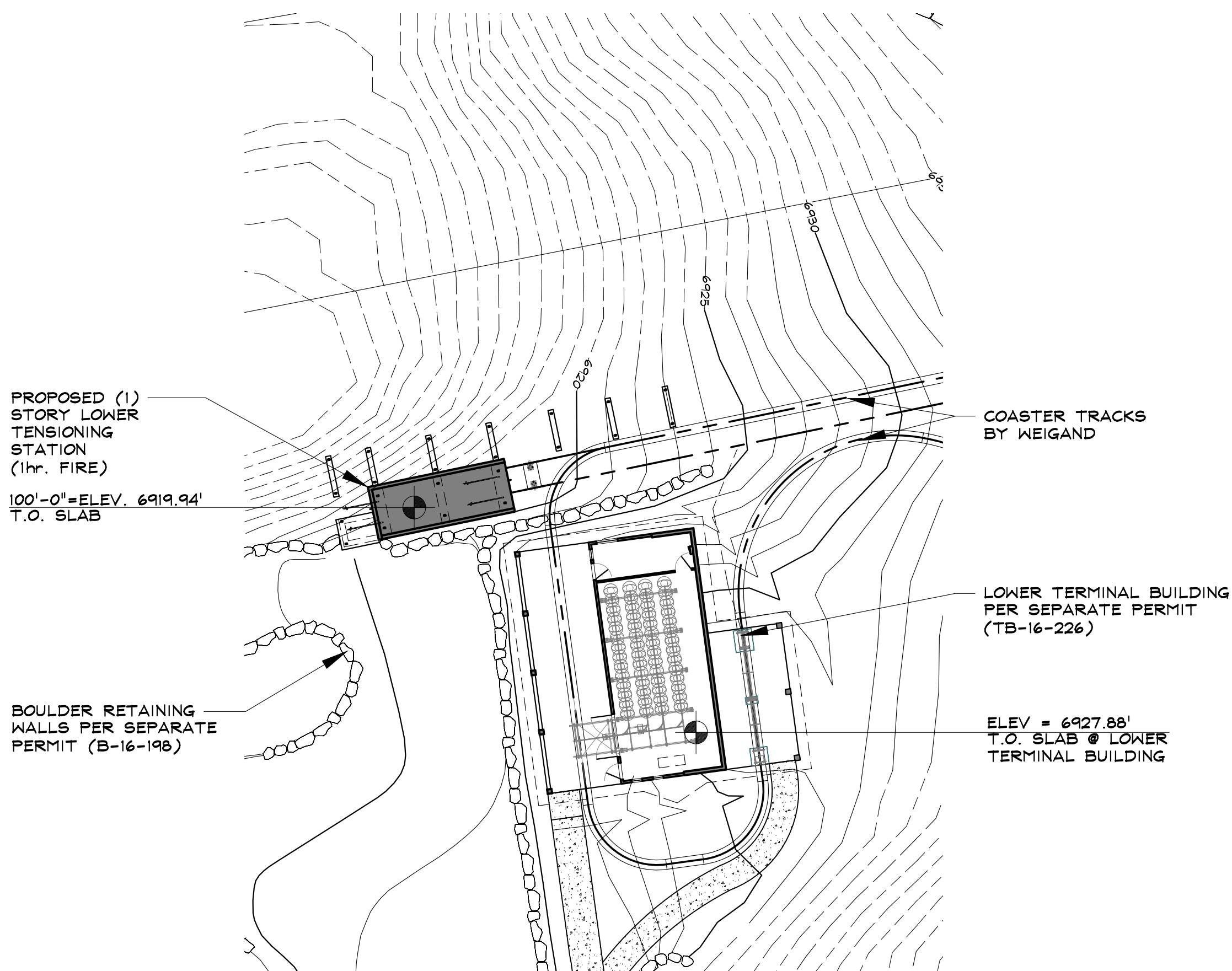




GENERAL PROJECT INFORMATION

APPLICABLE CODES:
2009 INTERNATIONAL BUILDING CODE
2009 INTERNATIONAL PLUMBING CODE
2009 INTERNATIONAL MECHANICAL CODE
2009 INTERNATIONAL ENERGY CONSERVATION CODE
2009 FUEL GAS CODE
2011 NATIONAL ELECTRIC CODE
INTERNATIONAL CODE COUNCIL ELECTRIC CODE
2009 CITY OF S.S. COMMUNITY DEVELOPMENT CODE

ZONING: OR - OPEN SPACE & RECREATION

SETBACKS:
FRONT: 25'-0" PRIMARY, 25'-0" ACCESSORY
SIDE: 25'-0" PRIMARY, 15'-0" ACCESSORY
REAR: 20'-0" PRIMARY, 15'-0" ACCESSORY

LOT SIZE:
WIDTH: 25'-0" MIN, NO MAX
DEPTH: NO MIN
MINIMUM AREA: 2,500 SQ. FT.

LOT COVERAGE: NO MAXIMUM

F.A.R.: NO MAXIMUM

LEGAL DESCRIPTION

SE4SE4, TRS IN NE4SE4, SW4SE4,
SE4SW4 SEC. 22-6-84, NE4NE4, TRS
IN NW4NE4 SECT. 27-6-84

RCRBD
RECORD SET

CODE STUDY

ZONING: OR - OPEN SPACE & RECREATION

CONSTRUCTION TYPE: V-B

OCCUPANCY CLASSIFICATION: GROUP S-2

NO. STORIES: (1)

SIZE OF BUILDING: 267 SQ. FT.

OCCUPANCY LOAD: 1 PERSON (267 SQ. FT./300)

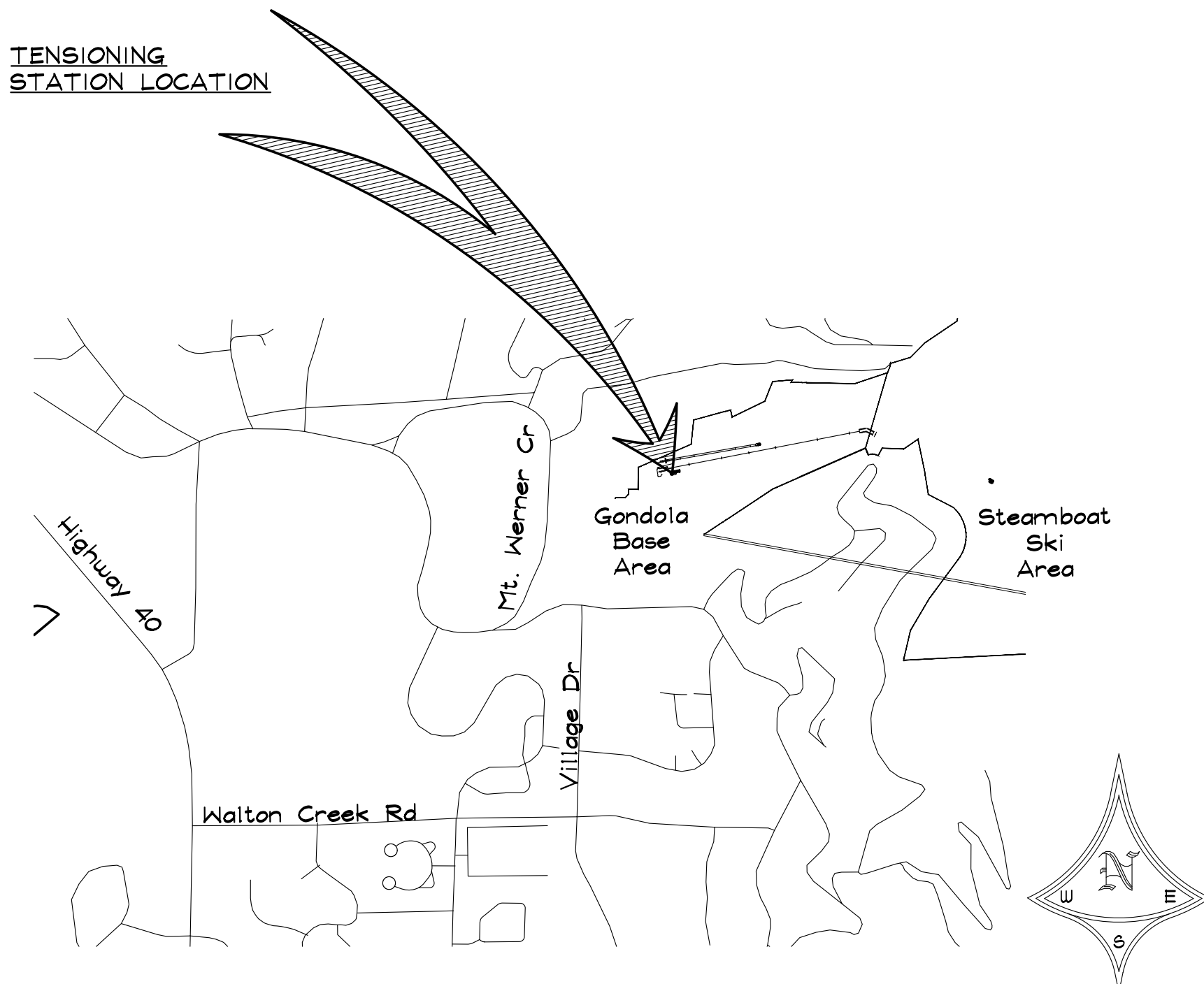
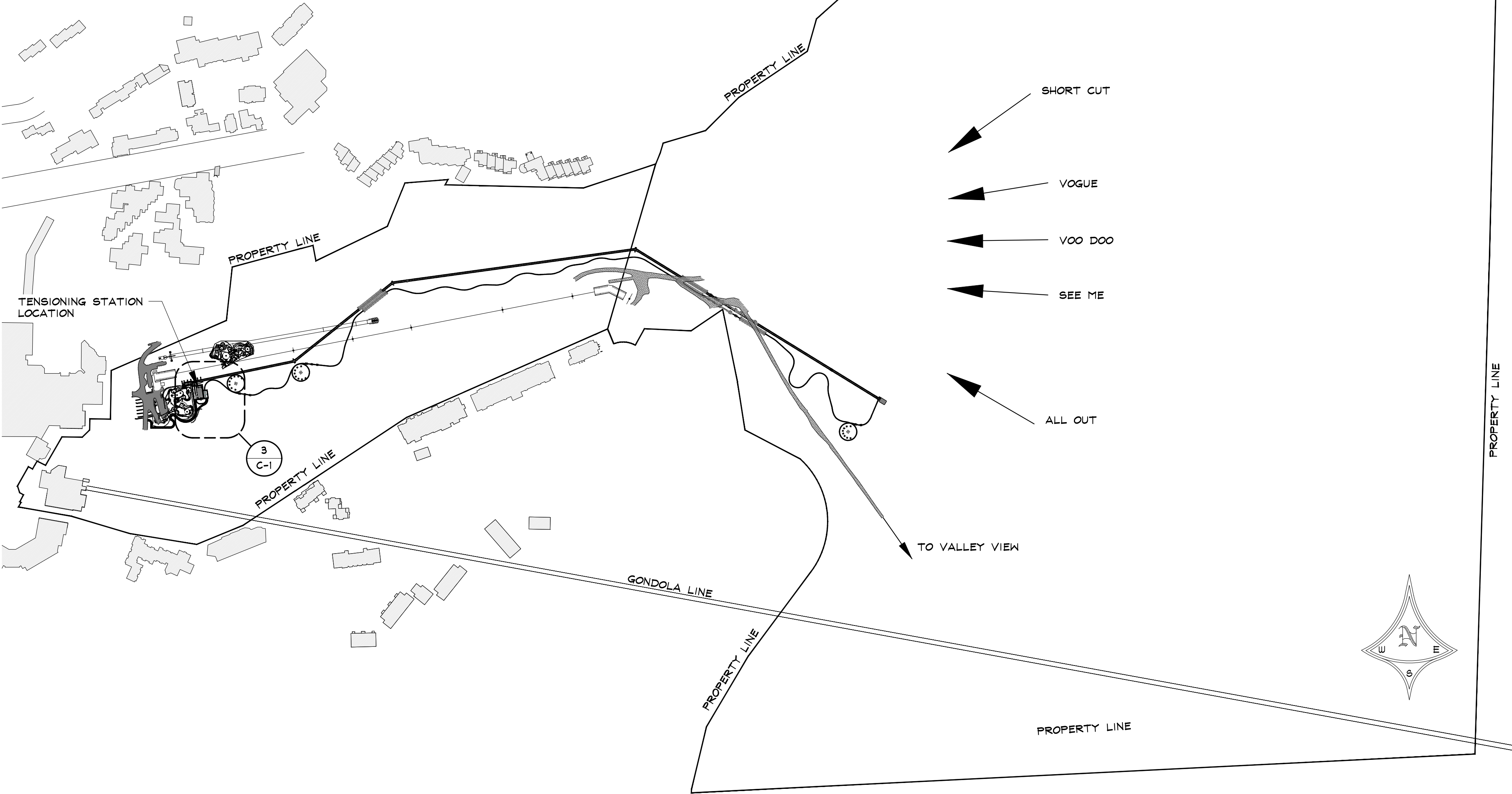
SIZE OF LOT: 197.0 ACRES

BLDG. HEIGHT: APH: 9'-6", 22'-0" ALLOWED
OH: 18'-0" MAX, 34'-0" ALLOWED

SHEET SCHEDULE	
SHEET	CONTENTS
C-1	OVERALL SITE PLAN & VICINITY MAP
A-1	PLANS & ARCH. NOTES
A-2	BUILDING ELEVATIONS
S-1	FOUNDATION PLAN & STRUCTURAL NOTES
S-1.1	REINFORCING DETAIL
S-1.2	LONGITUDINAL BUILDING SECTIONS
S-1.3	FRAME 'F1' SECTION
S-1.4	FRAME 'F2' & 'F3' SECTIONS
S-1.5	FRAME 'F4' & 'F5' SECTIONS
S-2	FRAMING PLANS & SECTIONS

PJ1735-6
Fire Prevention
In: 8/29/2016
Out: 09/05/2016
Full Permit

3 ENHANCED SITE PLAN @ COASTER TENSIONING STATION
NOT A CERTIFIED PLAT-BASED ON SURVEY BY LANDMARK CONSULTANTS, INC. DATED: 06.16.2016
DASHED CONTOUR LINES REPRESENT EXISTING ELEVATIONS
SOLID CONTOUR LINES REPRESENT PROPOSED ELEVATIONS
CONTOUR LINES ARE IN 1'-0" INCREMENTS
SCALE: 1" = 10'-0"



TENSIONING STATION
2305 MT. WERNER CIRCLE
STEAMBOAT SPRINGS, COLORADO
A NEW STRUCTURE FOR:
SSRC - STEAMBOAT SKI & RESORT CORP.

ISSUE DATES	
PROGRESS	08 . 03 . 16
PRICING SET	08 . 10 . 16
PERMIT	08 . 11 . 16

DRAWN BY:
SJM/JEM
PROJECT # 16020

OVERALL SITE
PLAN &
VICINITY MAP

C-1

SHEET 1 of 10

2 SITE PLAN
NOT A CERTIFIED PLAT-BASED ON SURVEY BY LANDMARK CONSULTANTS, INC. DATED: 06.16.2016
SCALE: 1" = 240'-0"

1 VICINITY MAP
SCALE: 1" = 1000'

ARCHITECTURAL NOTES

All work must comply with state and local codes, based on the Routt County Zoning Regulations, the 2009 International Building Code, the 2009 International Residential Code, the International Plumbing Code, the International Mechanical Code, the Energy Conservation Code and the International Electric Code. The contractor shall comply with all laws, ordinances, rules and regulations of any public authority bearing on the performance of the work, including O.S.H.A.

Location of the utilities (electrical, telephone, cable TV, gas, water, sewer) shall be verified before construction begins.

All on site construction safety and construction means and methods are the responsibility of the contractor. There is no implication of the construction safety requirements or building methods contained in these drawings.

All interior and exterior dimensions are to face of stud or face of concrete, U.N.O.

Do not scale drawings.

Actual site conditions may require that some of the components of the work should be done differently than shown on these drawings. All dimensions and conditions to be verified by the contractor prior to construction. Verify changes with the designer and engineer.

These drawings represent a simplified builder's set of plans. Additional detailing may be required of the engineer during construction.

If any discrepancies are found in these drawings notify engineer and/or designer immediately.

Any variation which requires a physical change from these plans must be brought to the attention of the designer and engineer in order to maintain the design intent of the project.

All work connected with this project by any trade involved shall be of the highest quality attainable in accordance with the professional practice of the trade.

Open sides of stairways, landings, ramps, balconies and porches which are more than 30" above grade shall be protected by a guardrail. All guardrails must be 36" above finished floor and shall allow no more than a 4" diameter sphere to pass through any portion of the railing per 2009 IRC R312.

Habitable spaces within dwelling units shall have natural light provided by exterior openings equal to 8% of the floor area. Natural ventilation shall be provided by means of operable exterior openings equal to 4% of the floor area.

The water closet stool shall be located in a clear space of not less than 30" in width. The clear space in front of the water closet stool shall be not less than 21".

All exterior walls are nominal 2x6 stud construction, U.N.O. All interior walls are nominal 2x4 stud construction, U.N.O.

The surface of exterior stairs shall be slip resistant.

Provide Grace 'Ice and water shield', or equivalent product, from the edge of roof overhangs to the ridge.

Walls and ceilings of enclosed usable space under stairs requires 1/2" gypsum wallboard. The door to access such spaces need not be rated.

Provide smoke detection per 2009 IRC section R314.

GA FILE NO. WP 8105

GENERIC

1 HOUR FIRE

GYPSUM WALLBOARD, GYPSUM SHEATHING, WOOD STUDS

EXTERIOR SIDE: One layer 48" wide 5/8" type X gypsum sheathing applied parallel to 2 x 4 wood studs 24" o.c. with 1-3/4" galvanized roofing nails 4" o.c. at vertical joints and 7" o.c. at intermediate studs and top and bottom plates. Joints of gypsum sheathing may be left untreated. Exterior cladding to be attached through sheathing to studs.

INTERIOR SIDE: One layer 5/8" type X gypsum wallboard, water-resistant gypsum backing board, or gypsum veneer base applied parallel or at right angles to studs with 6d coated nails, 1-7/8" long, 0.0915" shank, 1/4" heads, 7" o.c. (LOAD-BEARING)

Thickness: Varies

Approx. Weight: 7 psf

Fire Test: See WP 3510
(UL R3501-47, -48, 9-17-65,
UL Design U309;
UL R1319-129, 7-22-70,
UL Design U314)

GA FILE NO. RC 2601

GENERIC

1 HOUR FIRE

GYPSUM WALLBOARD, WOOD JOISTS, ROOF COVERING

Base layer 5/8" type X gypsum wallboard applied at right angles to 2 x 10 wood joists 24" o.c. with 1-1/4" Type W or S drywall screws 24" o.c. Face layer 5/8" type X gypsum wallboard or gypsum veneer base applied at right angles to joists with 1-7/8" Type W or S drywall screws 12" o.c. at joints and intermediate joists and 1-1/2" Type G drywall screws 12" o.c. placed 2" back on either side of end joints. Joints offset 24" from base layer joints. Wood joists supporting 1/2" plywood with exterior glue applied at right angles to joists with 8d nails. Appropriate roof covering. Ceiling provides one-hour fire-resistance protection for framing, including trusses.

Approx. Ceiling Weight: 5 psf

Fire Test: FM FC 172, 2-25-72;
ITS, 8-6-98

COMMERCIAL ENERGY CODE STANDARDS														
Re: 2009 International Energy Conservation Code Table 502.2(1)														
BUILDING ENVELOPE REQUIREMENTS - OPAQUE BUILDINGS														
Climate Zone 7	Roofs			Walls Above Grade				Walls Below Grade	Floors		Slab-on-Grade Floors		Opaque Doors	
	Insulation entirely above deck	Metal buildings (w/ r=5 thermal breaks) ^a	Attic & other	Mass	Metal Building ^b	Metal Framed	Wood Framed & Other	Below grade wall ^c	Mass	Joists/ Framing	Unheated Slabs	Heated Slabs	Swinging	Roll up or Sliding
Group R	R-25ci	R-19 + R-10	R-38	R-15.2ci	R-19 + R-5.6ci	R-13 + R-7.5ci	R-13 + R-7.5ci	R-10ci	R-16.7ci	R-30	R-15 for 24in. below	R-20 for 48in. below	U-0.50	U-0.50
All other	R-25ci	R-13 + R-19	R-38	R-15.2ci	R-13 + R-5.6ci	R-13 + R-7.5ci	R-13 + R-7.5ci	R-7.5ci	R-15ci	R-30	R-15 for 24in. below	R-20 for 24in. below	U-0.50	U-0.50
a	Thermal breaks are a minimum R-5 of rigid insulation, which extends 1 inch beyond the width of the purlin on each side, perpendicular to the purlin.													
b	Assembly descriptions can be found in Table 502.2(2)													
c	R-5.7 ci may be substituted with concrete block walls complying with ASTM C 90, ungrouted or partially grouted at 32 inches or less on center vertically and 48 inches or less on center horizontally, with ungrouted cores filled with material having a maximum thermal conductivity of 0.44 Btu-in./h-°F.													
d	When heated slabs are placed below grade, below grade walls must meet the exterior insulation requirements for perimeter insulation according to the heated slab-on-grade construction.													
e	Insulation is not required for mass walls in Climate Zone 3A located below the "Warm-Humid" line, and in Zone 3B.													

R C R B D
RECORD SET

Steamboat Engineering & Architectural Design, Inc.
2740 Acra Lane Suite 103 Steamboat Springs, CO 80487
Phone: 970.871.8111 Fax: 970.871.9089
E-mail: Steve@seadinc.com

TENSIONING STATION

2305 MT. WERNER CIRCLE
STEAMBOAT SPRINGS, COLORADO

A NEW STRUCTURE FOR:
SSRC - STEAMBOAT SKI & RESORT CORP.

ISSUE DATES

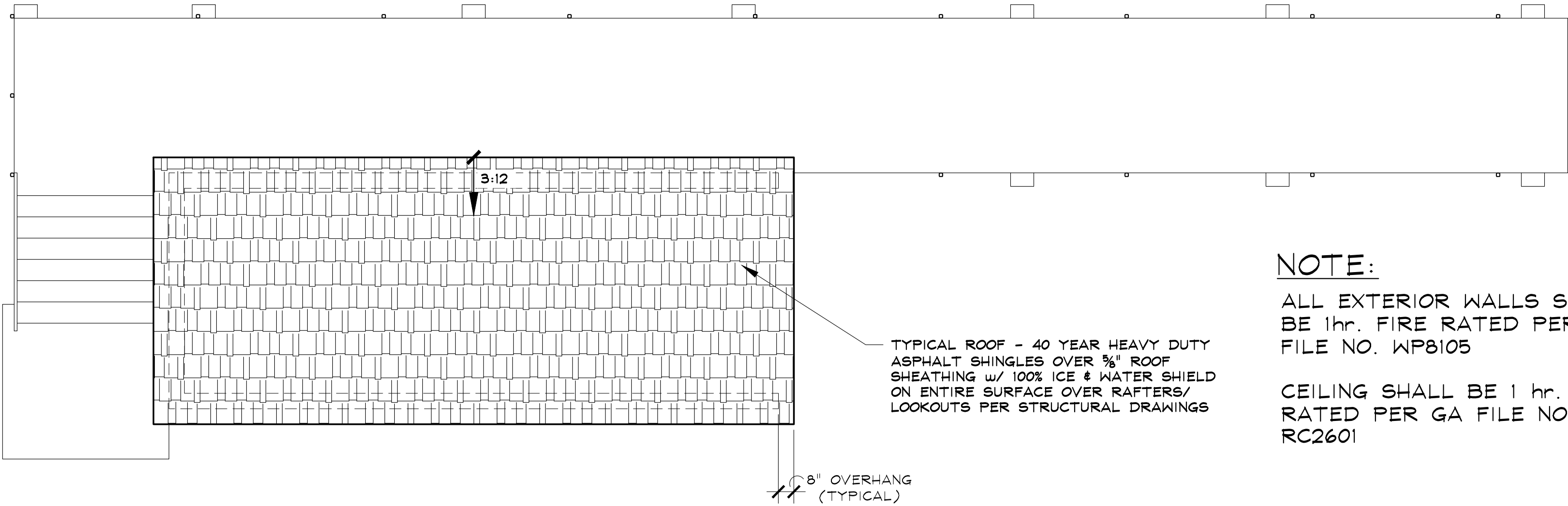
PROGRESS
08 . 03 . 16
PRICING SET
08 . 10 . 16
PERMIT
08 . 11 . 16

DRAWN BY:
SJM/JEM
PROJECT # 16020

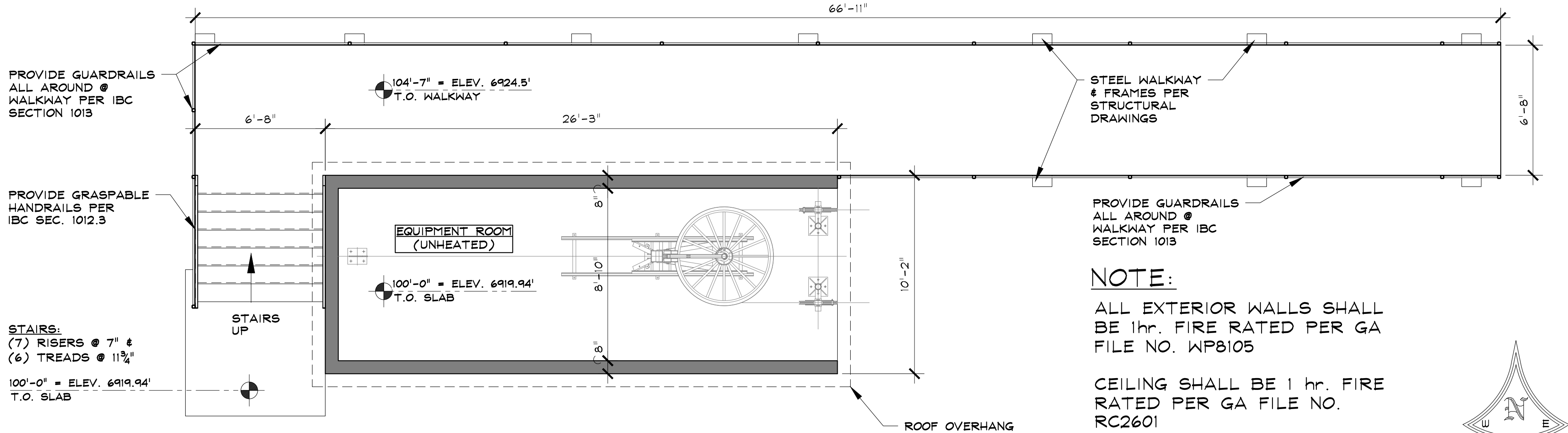
PLANS & NOTES

A-1

SHEET 2 of 10



2 ROOF PLAN



1 MAIN LEVEL FLOOR PLAN

267 SQ. FT. UNHEATED EQUIPMENT ROOM

ISSUE DATES	
PROGRESS	08 . 03 . 16
PRICING SET	08 . 10 . 16
PERMIT	08 . 11 . 16

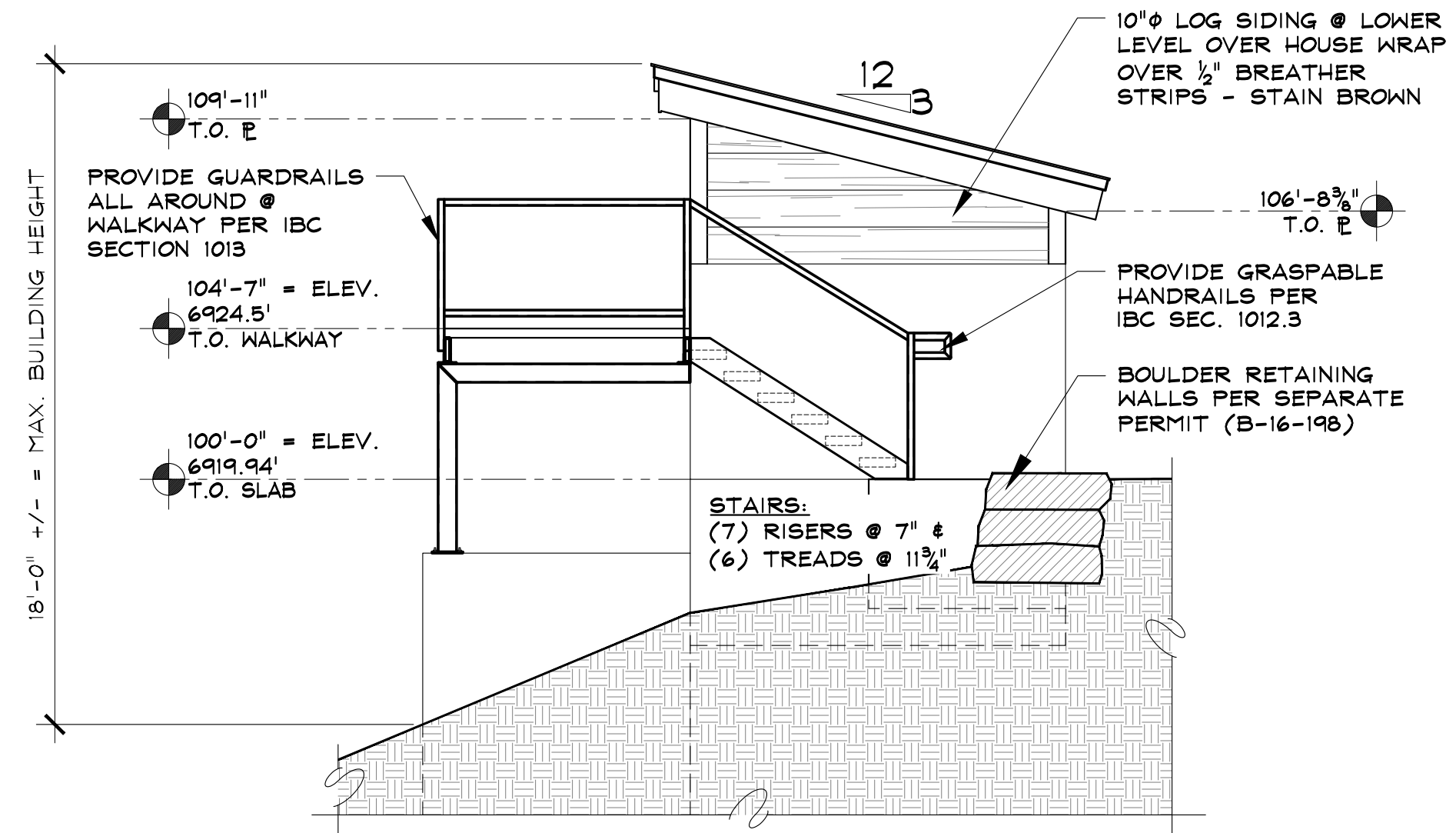
DRAWN BY:
SJM/JEM
PROJECT # 16020

ELEVATIONS

NOTE:

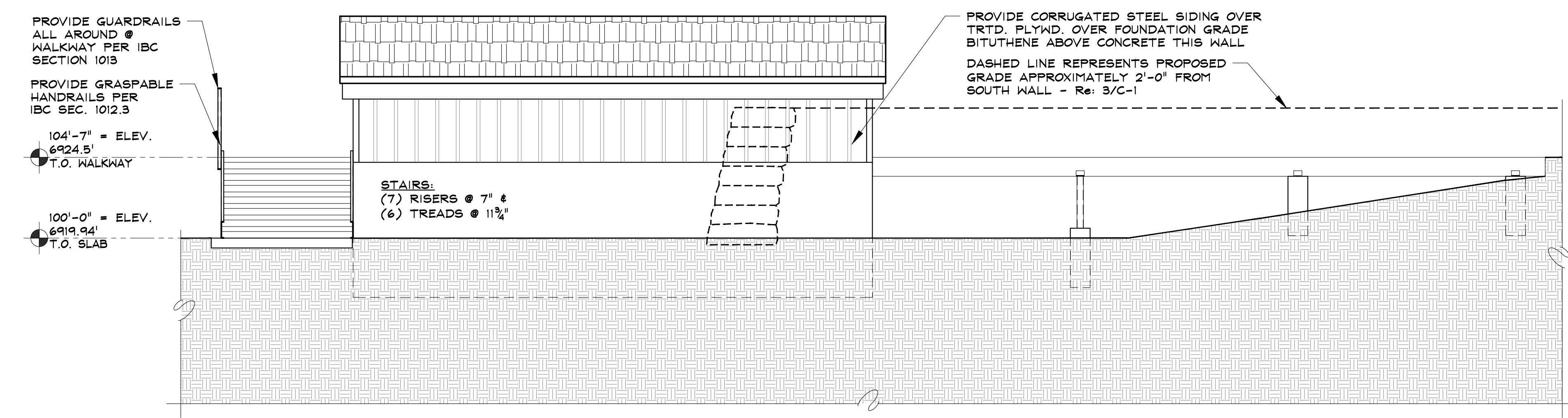
ALL EXTERIOR WALLS SHALL
BE 1hr. FIRE RATED PER GA
FILE NO. WP8105
Re: SHEET A-1

CEILING SHALL BE 1 hr. FIRE
RATED PER GA FILE NO.
RC2601
Re: SHEET A-1



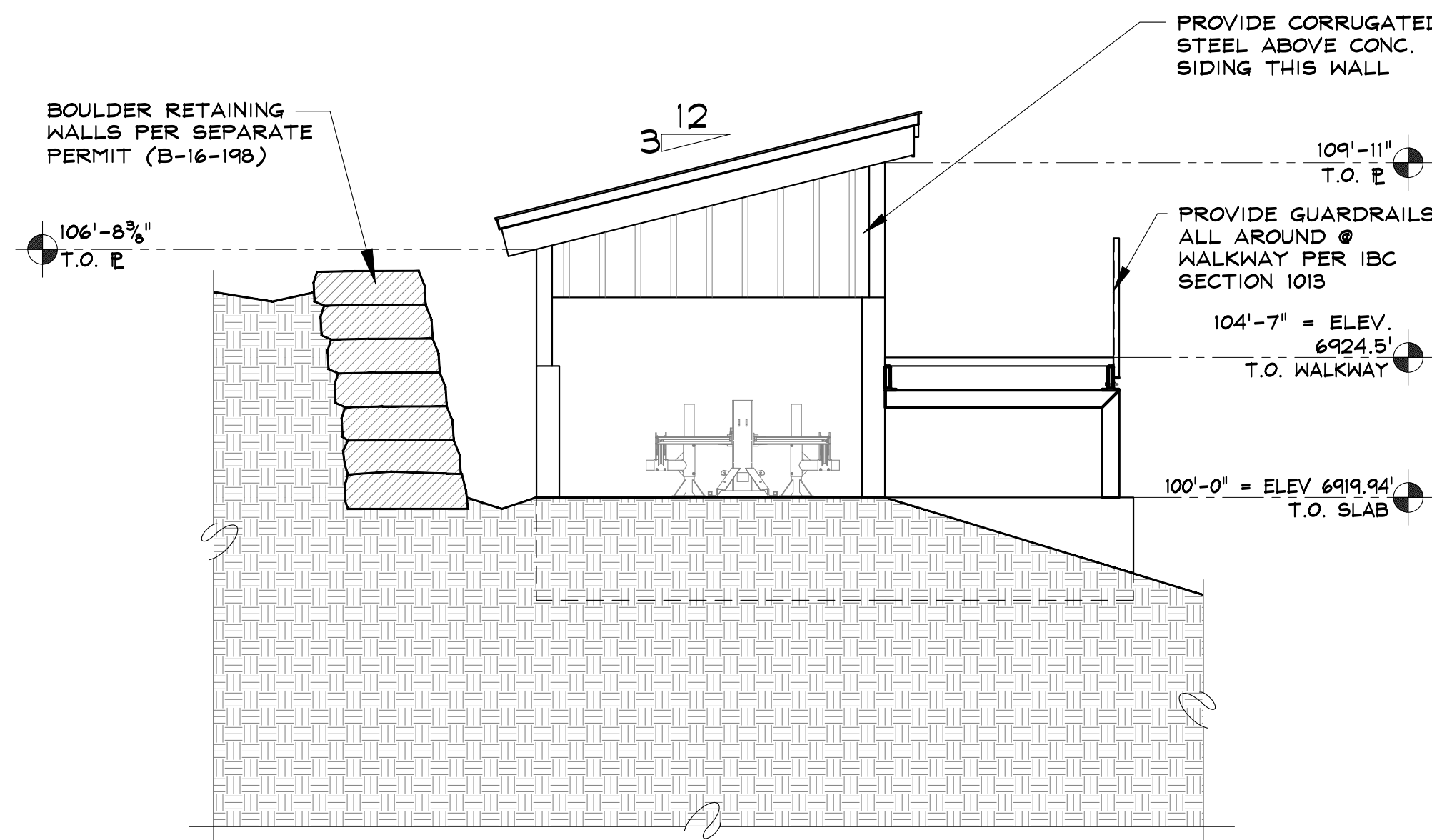
4 WEST ELEVATION

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



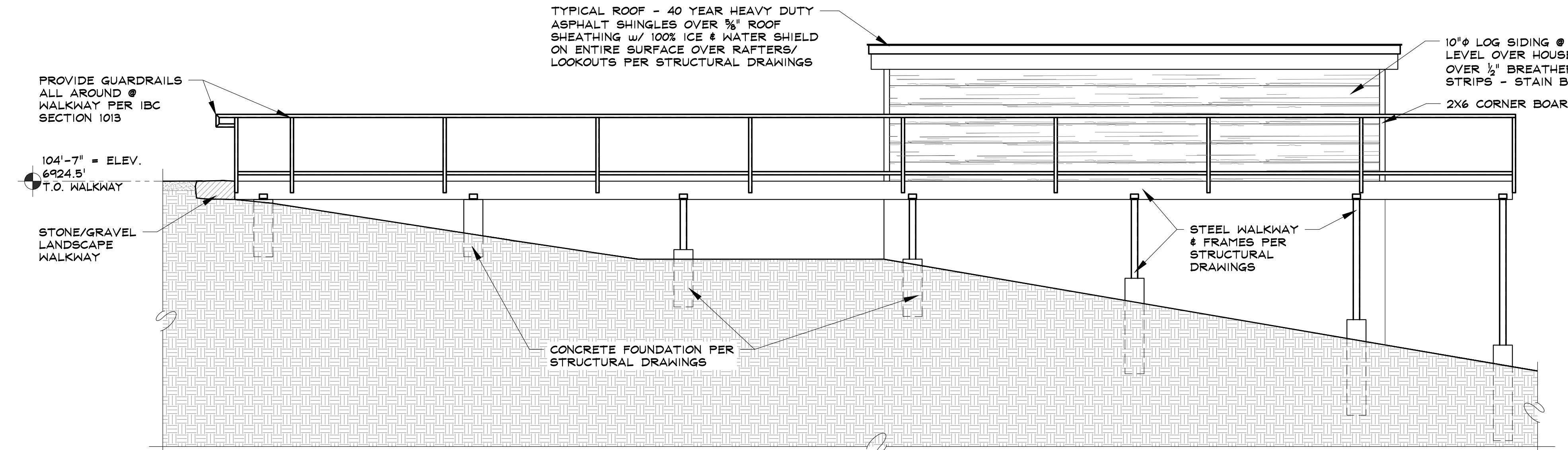
3 SOUTH ELEVATION

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



2 EAST ELEVATION

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



1 NORTH ELEVATION

NOTES THIS ELEVATION TYPICAL
FINAL DOOR & WINDOW SIZES TO BE DETERMINED OWNER & CONTRACTOR

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

Design Live Loads:

- A. Roofs 85 psf
- B. Floors 40 psf
- C. Wind 120 mph, Exposure B, ASCE 7-10
- D. Seismic Design Category B, Soil Type D, 2009 IBC

A. In lieu of a soils report, The Engineer of Record shall use local knowledge to approximate the soil conditions on site and a test pile shall be advanced near the location of the proposed pile installation(s) to determine the approximate depth and helix diameter(s) required to achieve the desired minimum torque(s).

B. The helical pile foundations and tiebacks are designed in accordance with the Practical Design and Inspection Guide for Helical Piles and Helical Tension Anchors Compiled and Prepared by John S. Pack, P.E. for I.M.R., Inc., Denver, Colorado, Revision 2, July 27, 2004.

C. The helical piles and tension anchors shall be installed to the minimum torques and lengths specified herein.

D. The installation of the helical piles and tension anchors shall be monitored and recorded by a representative of SEAD, Inc. or approved independent testing agency.

A. Structural concrete shall be Type I, and have a minimum 28 day strength of 4,000 psi, w/ min 6% entrained air for durability.

B. Reinforcing bars shall conform to ASTM spec. A615-79 and shall be Grade 60.

C. All concrete work shall conform to the requirements of ACI318 and 301, latest edition.

D. At splices, lap bars a minimum of 34 diameters. At corners and intersections, make horizontal continuous or provide chairs, come bars. Around openings in walls and slabs, provide (2) #5 bars extending a minimum of 2 feet beyond the edge of the opening.

E. Concrete cover shall conform to ACI 318-08, 7.7. Unless a greater cover is required, concrete cast against earth shall have 3in. min. cover, concrete exposed to earth or weather shall have 1½in. min. cover for No. 5 bars & smaller & 2in. min. cover for No. 6 bars & greater. Concrete not exposed to weather shall have ¾" min. cover for No. 11 bars & smaller.

- A. All bolts, including anchor bolts, shall conform to ASTM spec. A307.
- B. Structural steel rolled shapes, including plates and angles, shall be ASTM A36.
- C. Expansion bolts called for on the drawings shall be Simpson "Weg-All", "Strong-Bolt 2" or approved equivalent type and grade with the following minimum embedments: 3/4" diameter bolts - 3%", 5/8" diameter bolts - 2%", 1/2" diameter bolts - 2%.
- D. All epoxy shall be Simpson "Set-Xp" and shall be installed per the "Anchoring and Fastening Systems For Concrete and Masonry" Simpson catalog #C-SAS-2012 by qualified personnel.
- E. Field welded connections must be inspected by the Engineer OF Record of approved third party. Welds used in conjunction with the plate shall be the minimum E70XX electrodes and shall be the minimum size specified in the AISC Manual of Steel Construction, Table J2.4.

A. Unless noted otherwise, all 2" lumber shall be Douglas Fir S4S No. 2 and better. All solid timber beams and posts shall be DF-L No. 1 or better.

B. Unless noted otherwise, minimum nailing shall be as provided as specified in Table No. 2304.9.1, "Fastening Schedule", of the 2009 IBC or Table No. R602.3(1), "Fastener Schedule For Structural Members", of the 2009 IRC.

C. Wall and floor sheathing shall be APA rated with exterior glue and graded in accordance with APA standards. Panel identification and thickness shall be as noted on the drawings.

D. All nail gauge framing members are shown or required, they shall be Simpson "Strong Tie" (or equal approved by CBO). They shall be installed with the number and type of fasteners recommended by the manufacturer to develop the rated capacity.

E. Laminated Veneer Lumber shall be of such stress grade to provide an allowable bending stress of 2,600 psi, allowable shear stress parallel to the glue line of 285 psi and a modulus of elasticity of 1,900,000 psi.

BEARING
ARROW

- = COLUMN BELOW
- = COLUMN ABOVE
- = COLUMN CONTINUOUS THIS LEVEL
- = RAFTER
- = JOIST
- = BEAM
- = RIM
- = LEDGER
- = TYPICAL HEADER
- = CLOSURE WALL
- = HANGER
- = CLIP

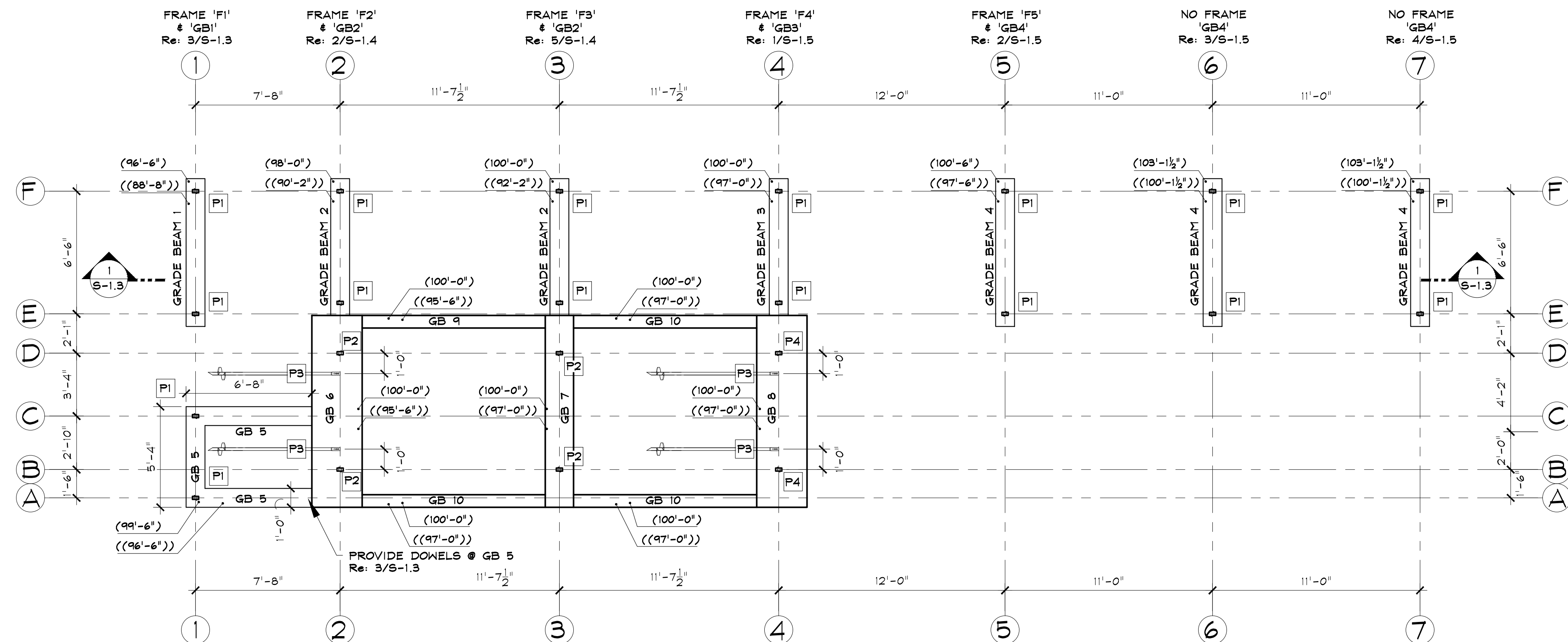
ALL EXTERIOR WALLS SHALL
BE 1hr. FIRE RATED PER GA
FILE NO. WP8105
Re: SHEET A-1

CEILING SHALL BE 1 hr. FIRE
RATED PER GA FILE NO.
RC2601
Re: SHEET A-1

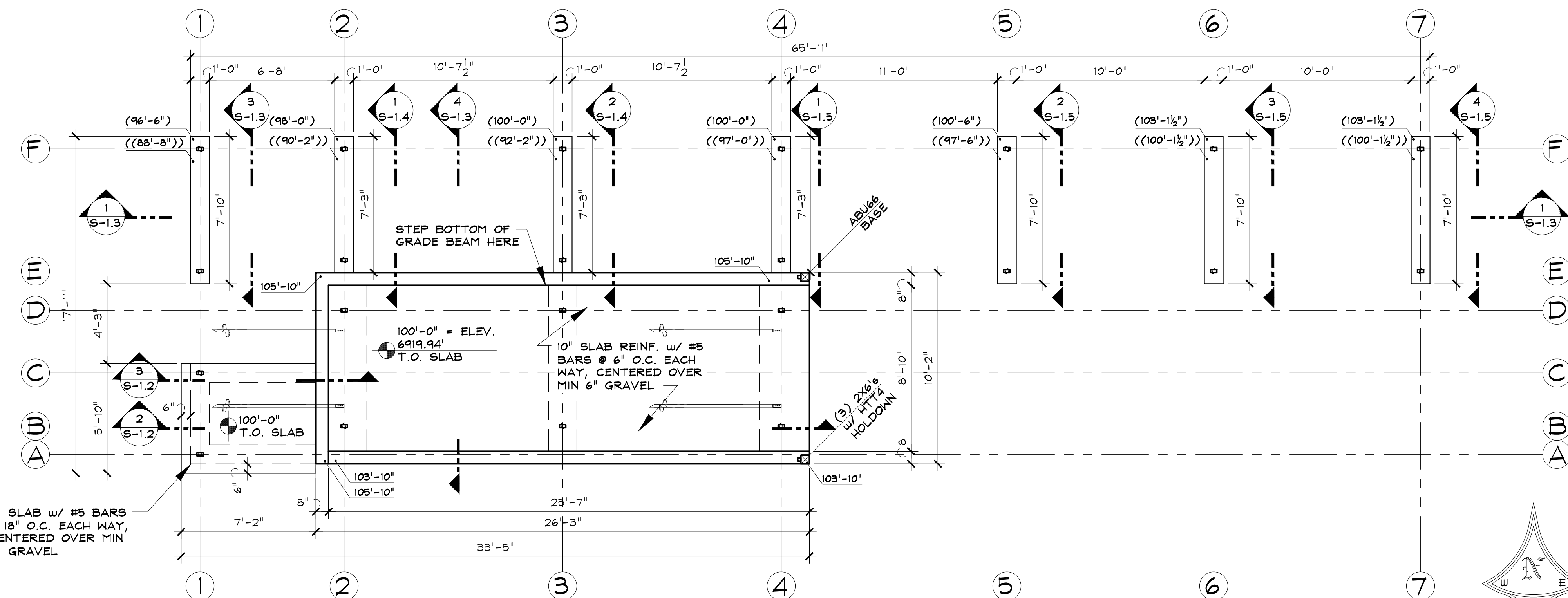
BEAM I.D.	SIZE (lxwxh)	REIN.	BEAM I.D.	SIZE (lxwxh)	REIN.
GB 1	7'-10"x1'-0" X7'-10"	(2) #5 BARS @ 18" O.C. w/ STIRRUP 'A' @ 12" O.C., T&B @ #5 VERTS @ 12" O.C.	GB 6	10'-2"x2'-8" X4'-6"	(4) #5 BARS @ T&B w/ (2) #5 BARS @ 14" O.C. w/ STIRRUP 'B' @ 12" O.C. @ #4 TIES
GB 2	7'-3"x1'-0" X7'-10"	(2) #5 BARS @ 18" O.C. w/ STIRRUP 'A' @ 12" O.C., T&B @ #5 VERTS @ 12" O.C.	GB 7	10'-2"x1'-6" X3'-0"	(2) #5 BARS @ 12" O.C. w/ STIRRUP 'C' @ 12" O.C. @ #4 TIES
GB 3	7'-19"x1'-0" X3'-0"	(2) #5 BARS @ 16" O.C. w/ STIRRUP 'A' @ 12" O.C., T&B @ #4 TIES	GB 8	10'-2"x2'-8" 3'-0"	(2) #5 BARS @ 12" O.C. w/ STIRRUP 'D' @ 12" O.C. @ #4 TIES
GB 4	7'-10"x1'-0" X3'-0"	(2) #5 BARS @ 16" O.C. w/ STIRRUP 'A' @ 12" O.C., T&B @ #4 TIES	GB 9	9'-8 1/2"x0'-8" X4'-6"	(2) #5 BARS @ TOP & BOTTOM w/ #4 DONELS @ 18" O.C. INTO SLAB
GB 5	PER PLAN	(2) #5 BARS @ 16" O.C. w/ STIRRUP 'A' @ 12" O.C., T&B @ #4 TIES	GB 10	9'-8 1/2"x0'-8" X3'-0"	(2) #5 BARS @ TOP & BOTTOM w/ #4 DONELS @ 18" O.C. INTO SLAB

PILE I.D.	PILE TYPE	ORIENTATION	MIN. LENGTH Feet	MIN. TORQUE Ft. - Lbs.	QUANTITY
P1	HPC15	VERTICAL	7	3,000	(16)
P2	HPC15	VERTICAL	7	5,000	(4)
P3	HPC15	BATTERED 30°	8	5,000	(4)
P4	HPC15	VERTICAL	7	4,000	(2)

NOTES:
1. MINIMUM TORQUE INCLUDES F.S. = 2 FOR HELICAL PILES
2. PROVIDE RC150 PILE CAP FOR ALL PILES



TYPICAL - ELEVATION @ TOP OF CONCRETE GRADE BEAM INDICATED THUS: (ELEV)*
TYPICAL - ELEVATION @ BOTTOM OF CONCRETE GRADE BEAM INDICATED THUS: ((ELEV))



TYPICAL - ELEVATION @ TOP OF CONCRETE WALL INDICATED THUS: ELEV/'
TYPICAL - ELEVATION @ TOP OF CONCRETE GRADE BEAM INDICATED THUS: (ELEV)/'
TYPICAL - ELEVATION @ BOTTOM OF CONCRETE GRADE BEAM INDICATED THUS: ((ELEV))/'
TYPICAL - COLUMNS THAT BEGIN THIS LEVEL ARE INDICATED ON PLAN

Revised
09/07/2016 3:47:21 PM
SCALE: $\frac{1}{4}'' = 1'-0''$

A NEW STRUCTURE FOR:
SSRC - STEAMBOAT SKI & RESORT CORP.

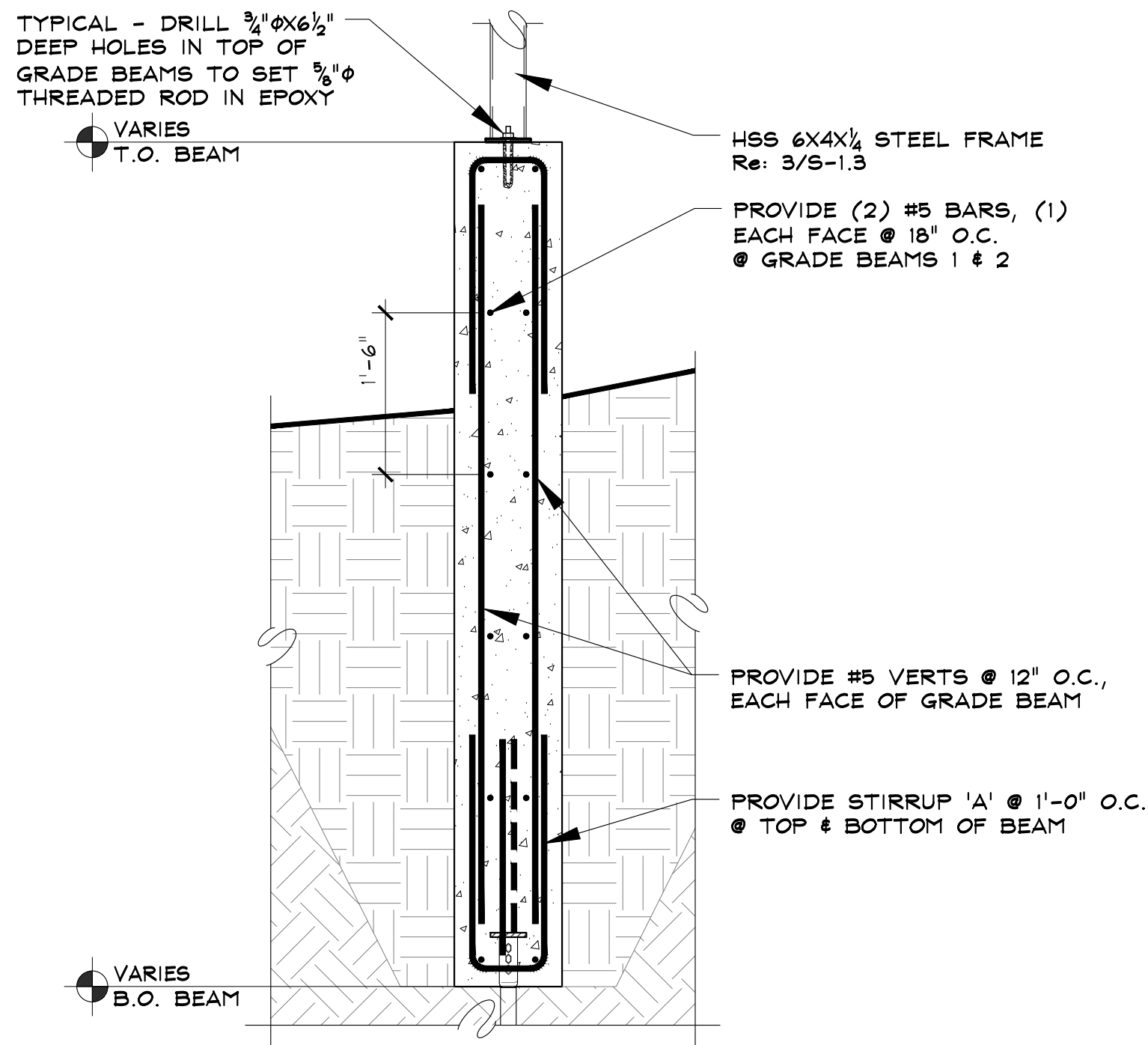
PROGRESS
08 . 03 . 16
PRICING SET
08 . 10 . 16
PERMIT
08 . 11 . 16

DRAWN BY:
SJM/JEM
PROJECT # 16020

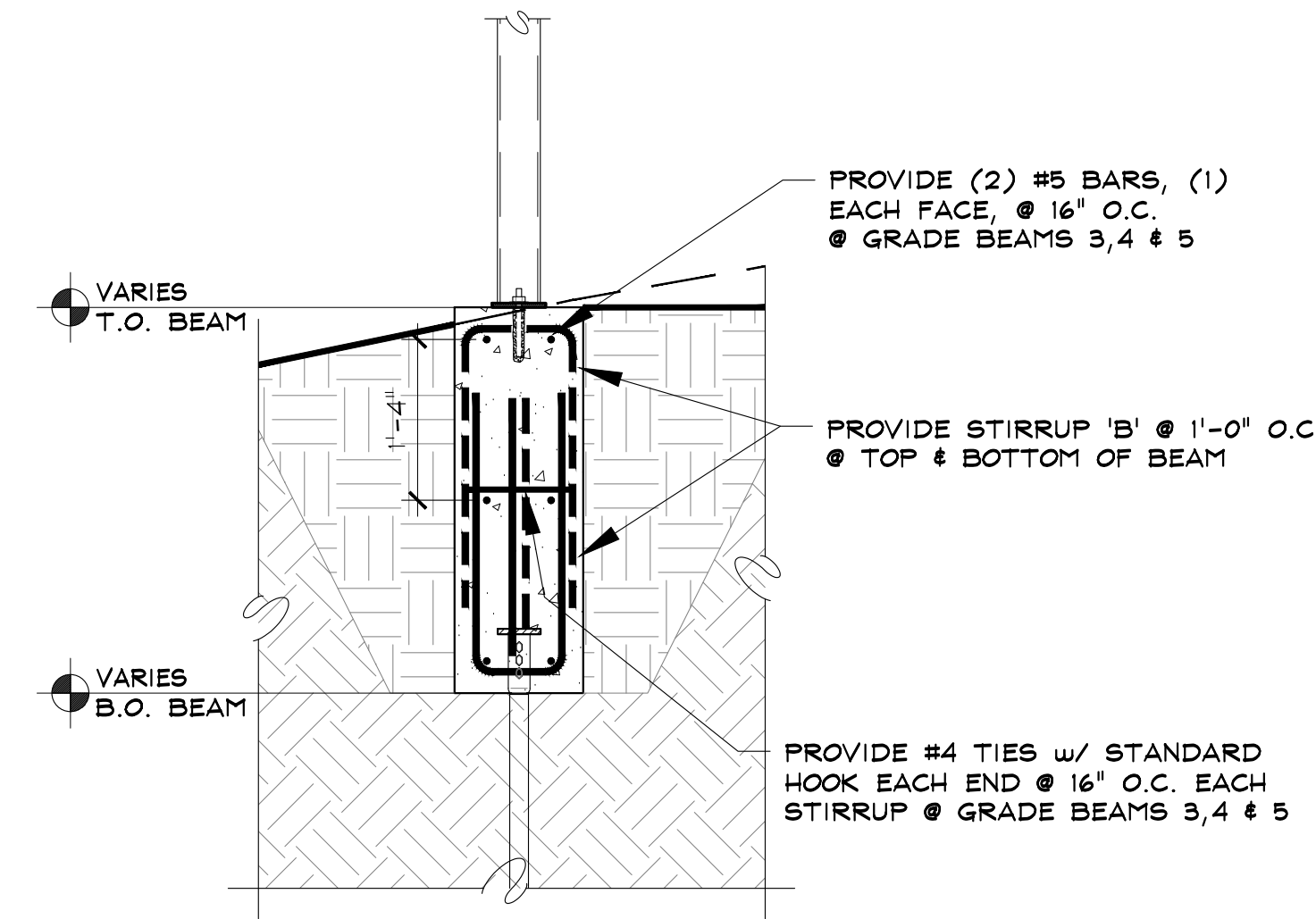
FOUNDATION
PLAN & NOTES

S-1

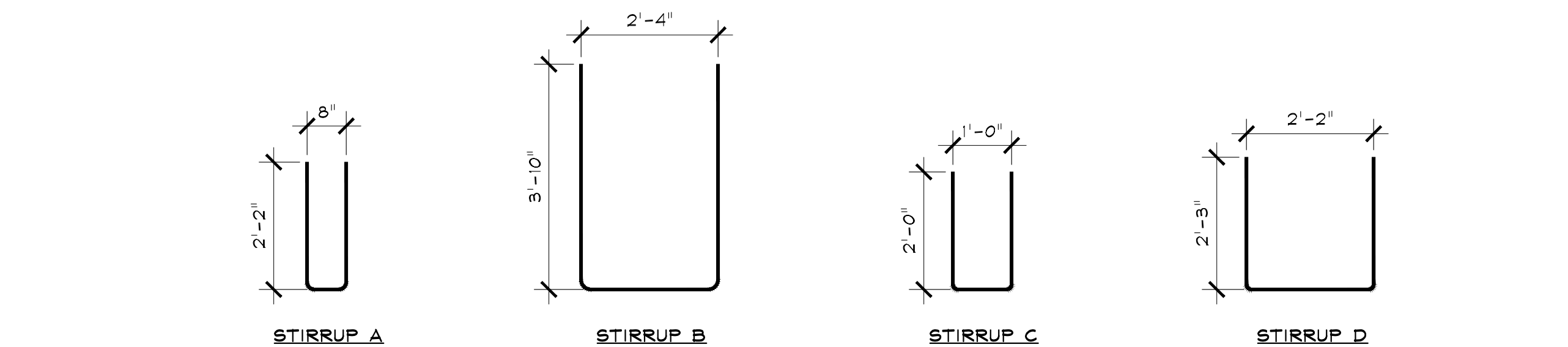
SHEET 4 of 10



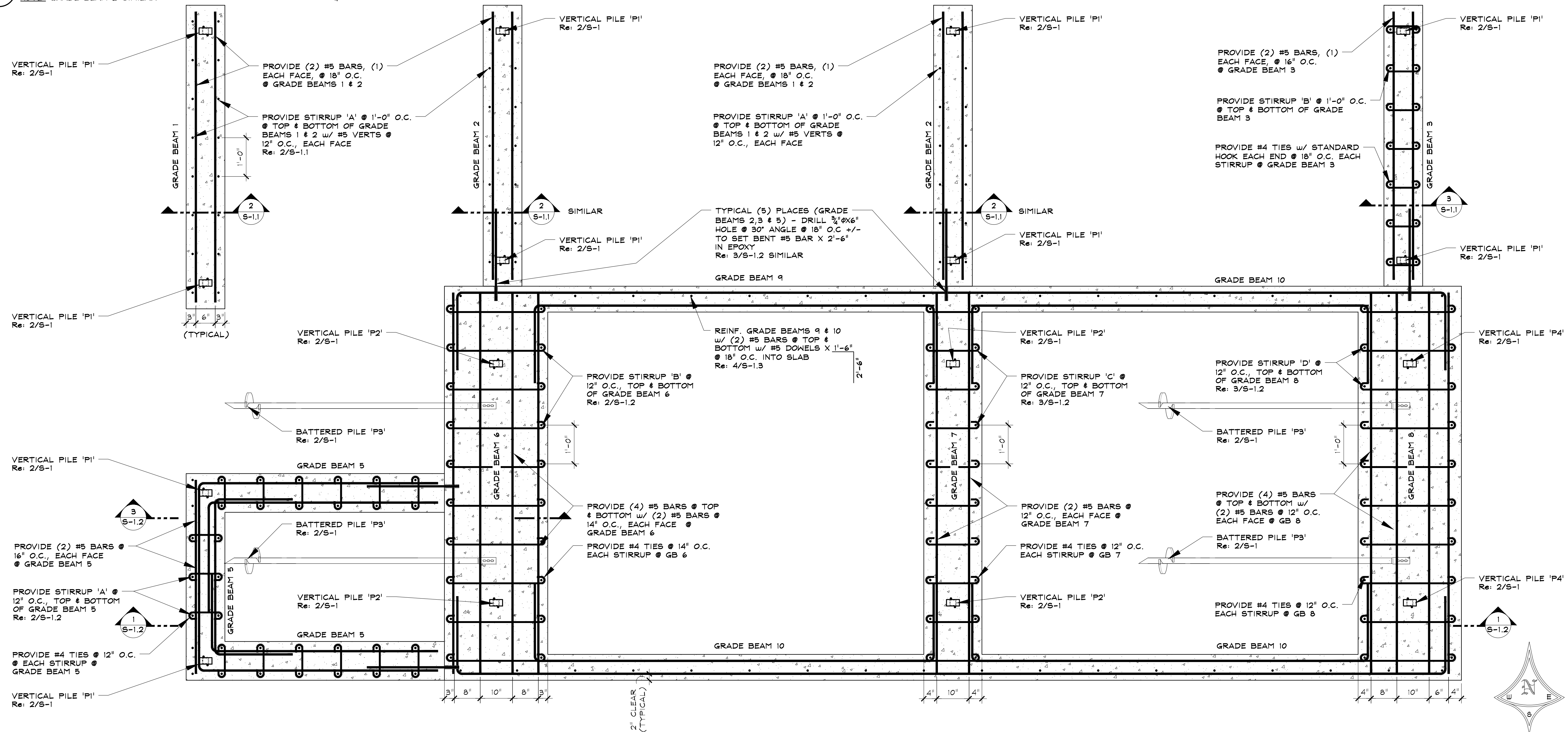
2 GRADE BEAM 1 SECTION
NOTE: GRADE BEAM 2 SIMILAR
SCALE: 3/4" = 1'-0"



3 GRADE BEAM 3 SECTION
NOTE: GRADE BEAM 4 SIMILAR
SCALE: 3/4" = 1'-0"



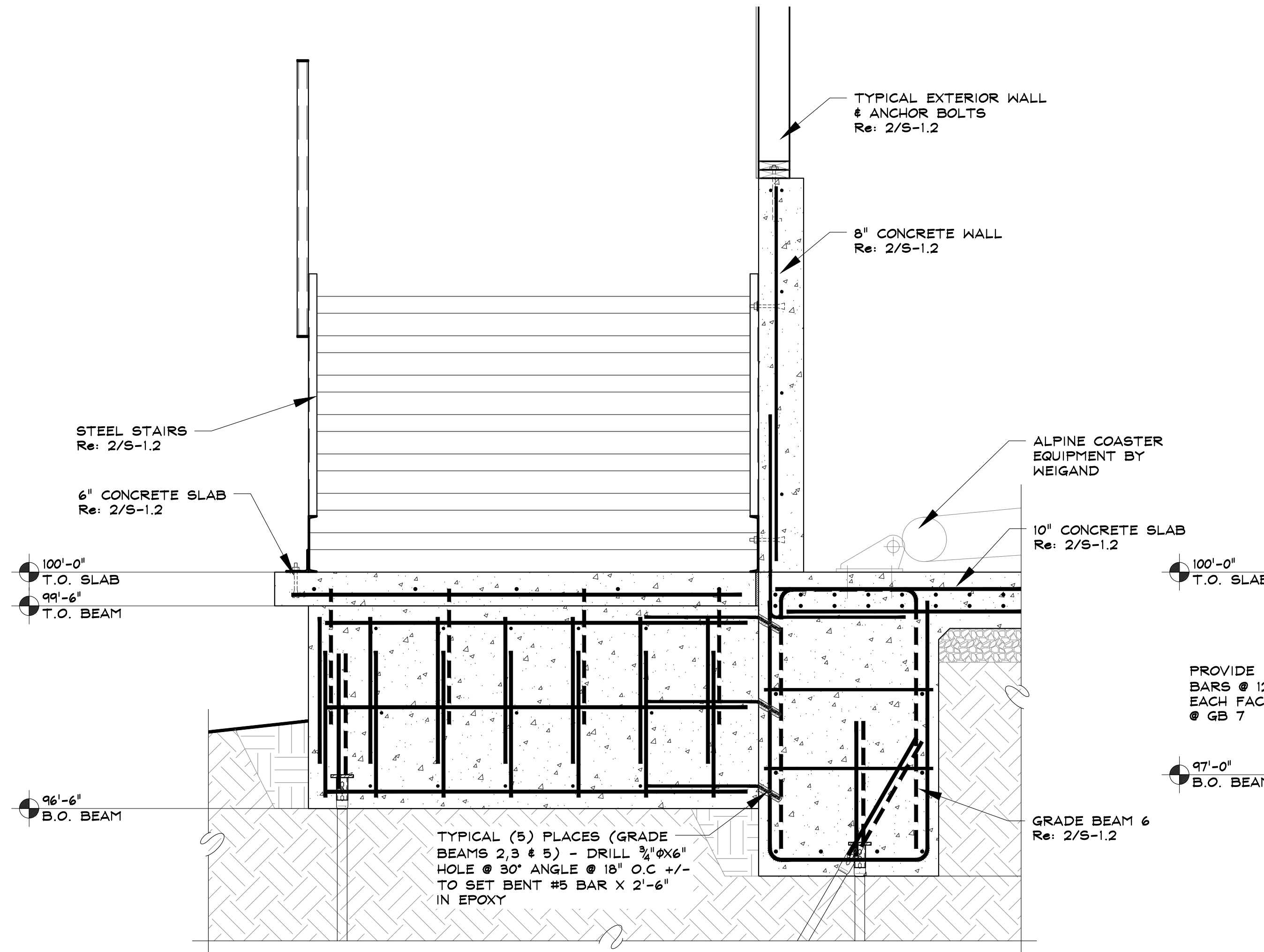
4 STIRRUP DETAILS
SCALE: 1/2" = 1'-0"



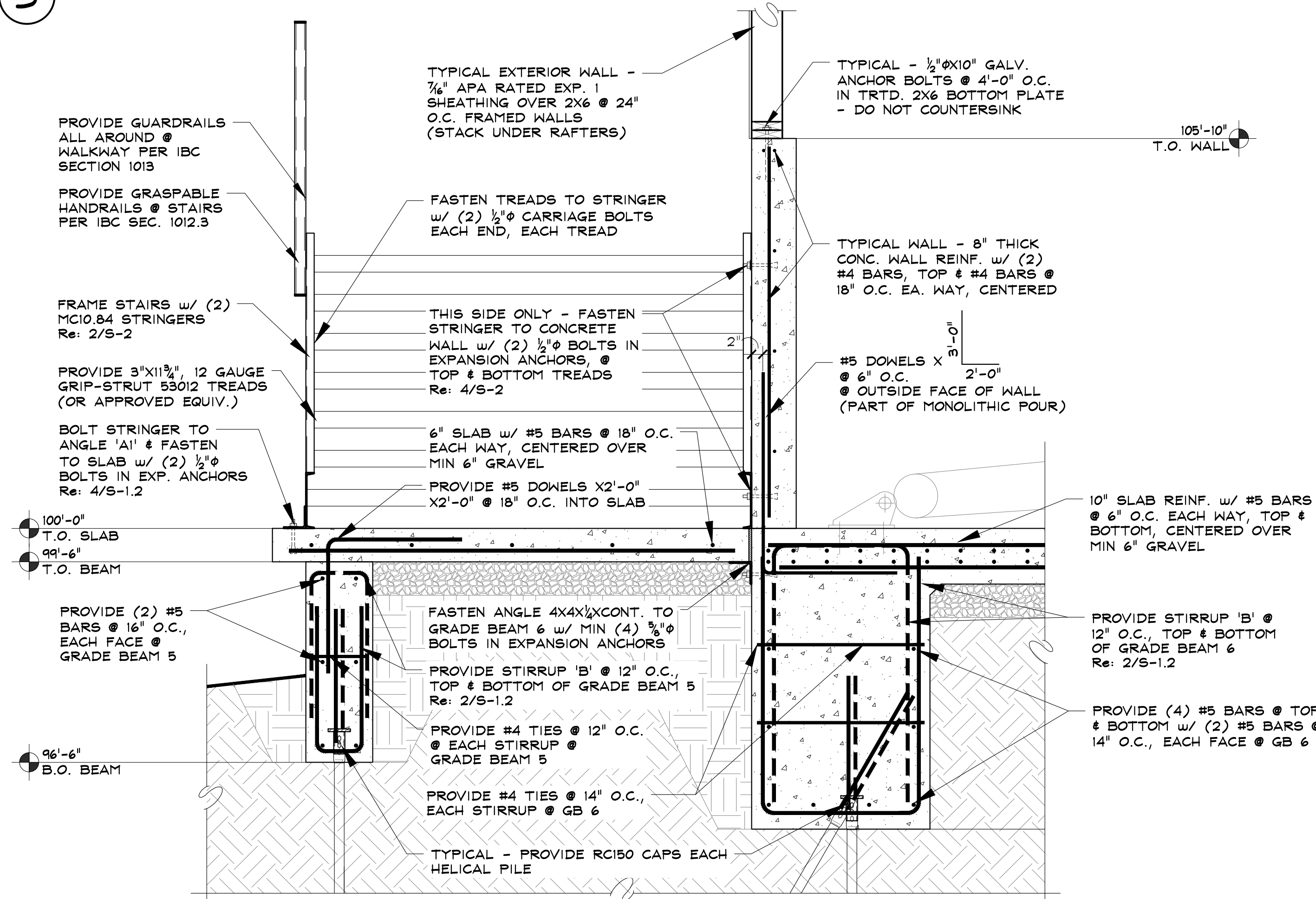
1 REINFORCING DETAIL - GRADE BEAMS
SCALE: 3/4" = 1'-0"

**R C R B D
RECORD SET**

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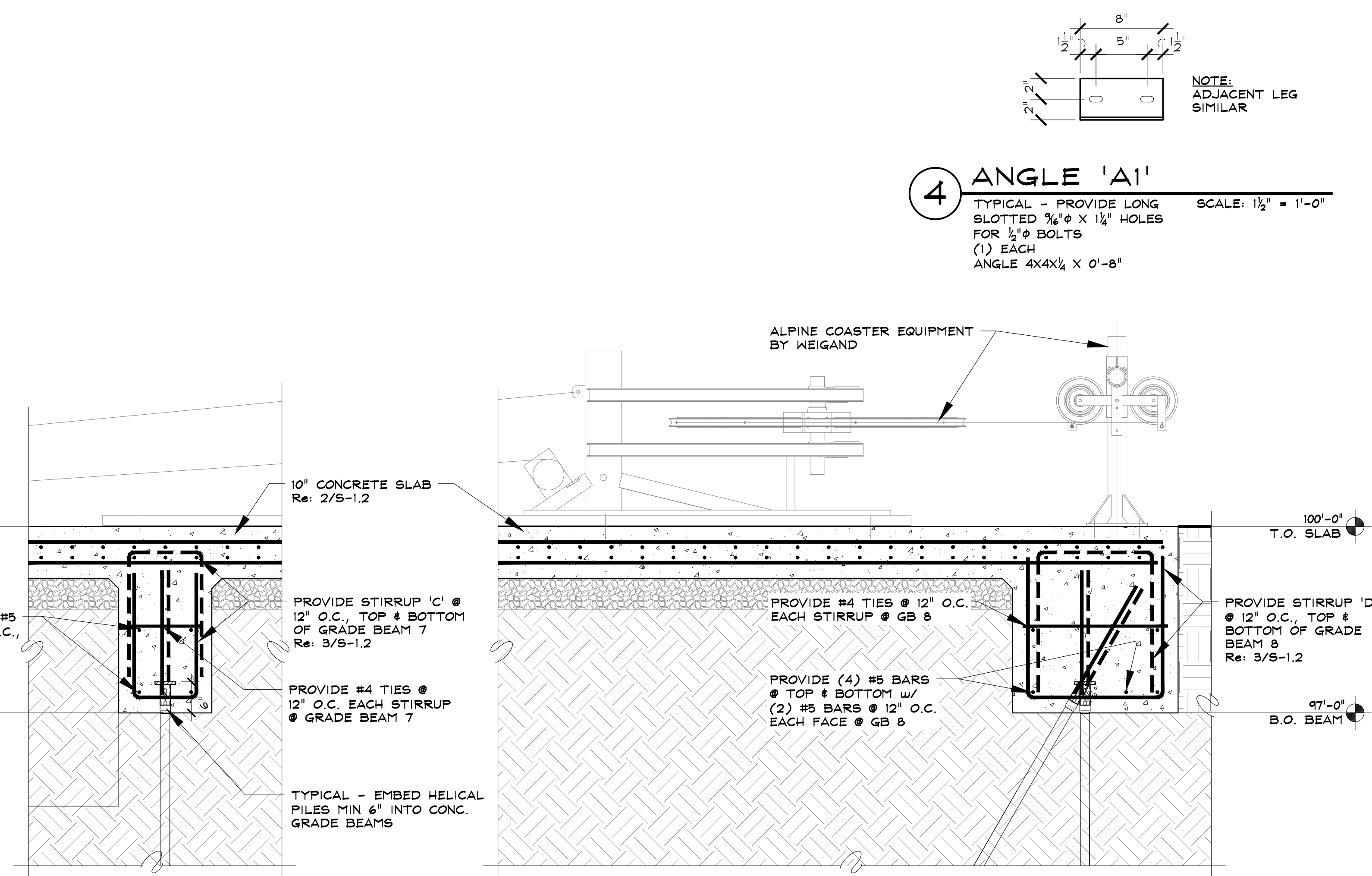


3 ENHANCED SECTION THROUGH STAIRS



2 ENHANCED SECTION THROUGH STAIRS

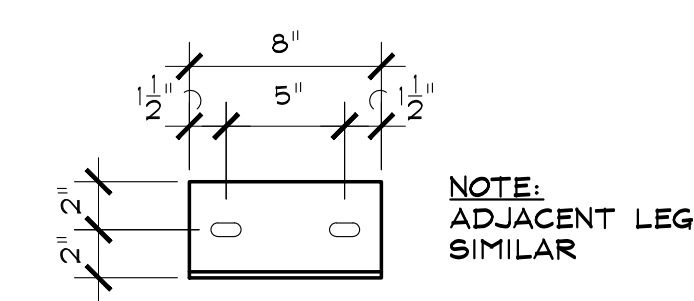
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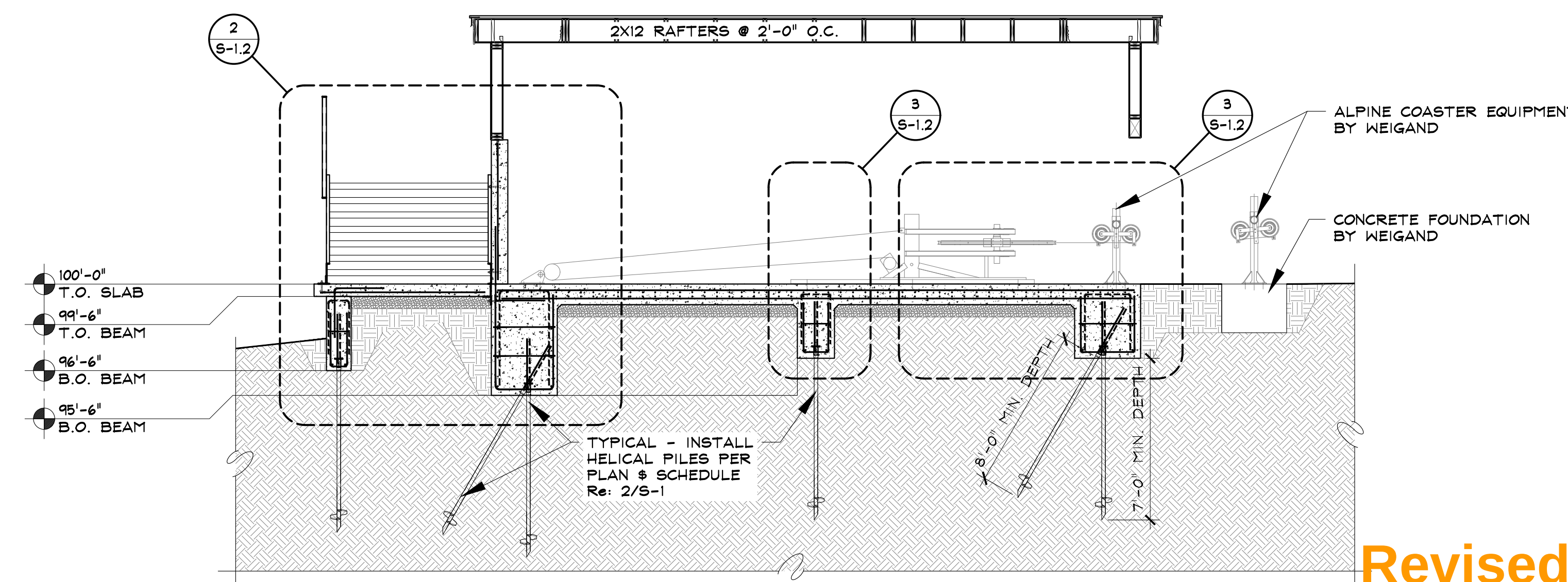
1 LONGITUDINAL SECTION THROUGH STRUCTURE

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

4 ANGLE 'A1'
TYPICAL - PROVIDE LONG SLOTTED 3/8" x 1/4" HOLES FOR 1/2" BOLTS (1) EACH ANGLE 4X4X1/4 X 0'-8"
SCALE: 1 1/2" = 1'-0"



NOTE:
ALL EXTERIOR WALLS SHALL BE 1hr. FIRE RATED PER GA FILE NO. WP8105
Re: SHEET A-1
CEILING SHALL BE 1 hr. FIRE RATED PER GA FILE NO. RC2601
Re: SHEET A-1



TENSIONING STATION

2305 MT. WERNER CIRCLE
STEAMBOAT SPRINGS, COLORADO
A NEW STRUCTURE FOR:
SSRC - STEAMBOAT SKI & RESORT CORP.

ISSUE DATES	
PROGRESS	08 . 03 . 16
PRICING SET	08 . 10 . 16
PERMIT	08 . 11 . 16

DRAWN BY:
SJM/JEM
PROJECT # 16020

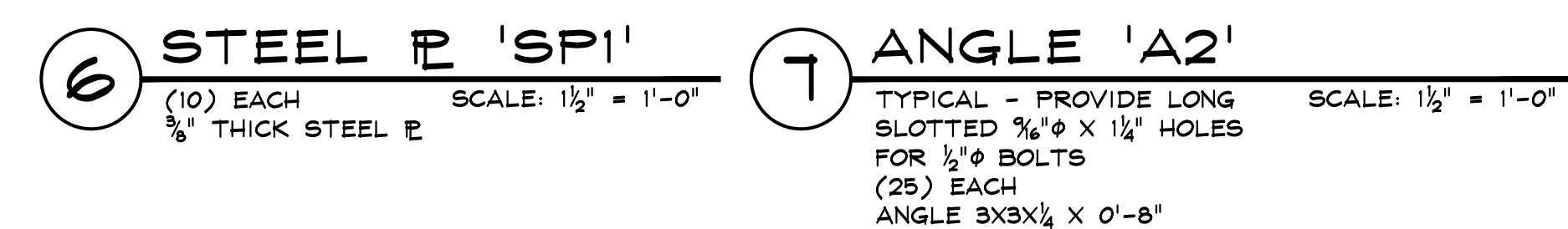
FOUNDATION
SECTIONS

Revised
09/07/2016 3:47:46 PM

5-1.2

SHEET 6 of 10

Steamboat Engineering & Architectural Design, Inc.
2740 Acme Lane Suite 'E' Steamboat Springs, CO 80487
Phone: 970 . 871 . 9899 Fax: 970 . 871 . 9889
E-mail: Steve@seadinc.com



SCALE: $1\frac{1}{2}" = 1'-0"$

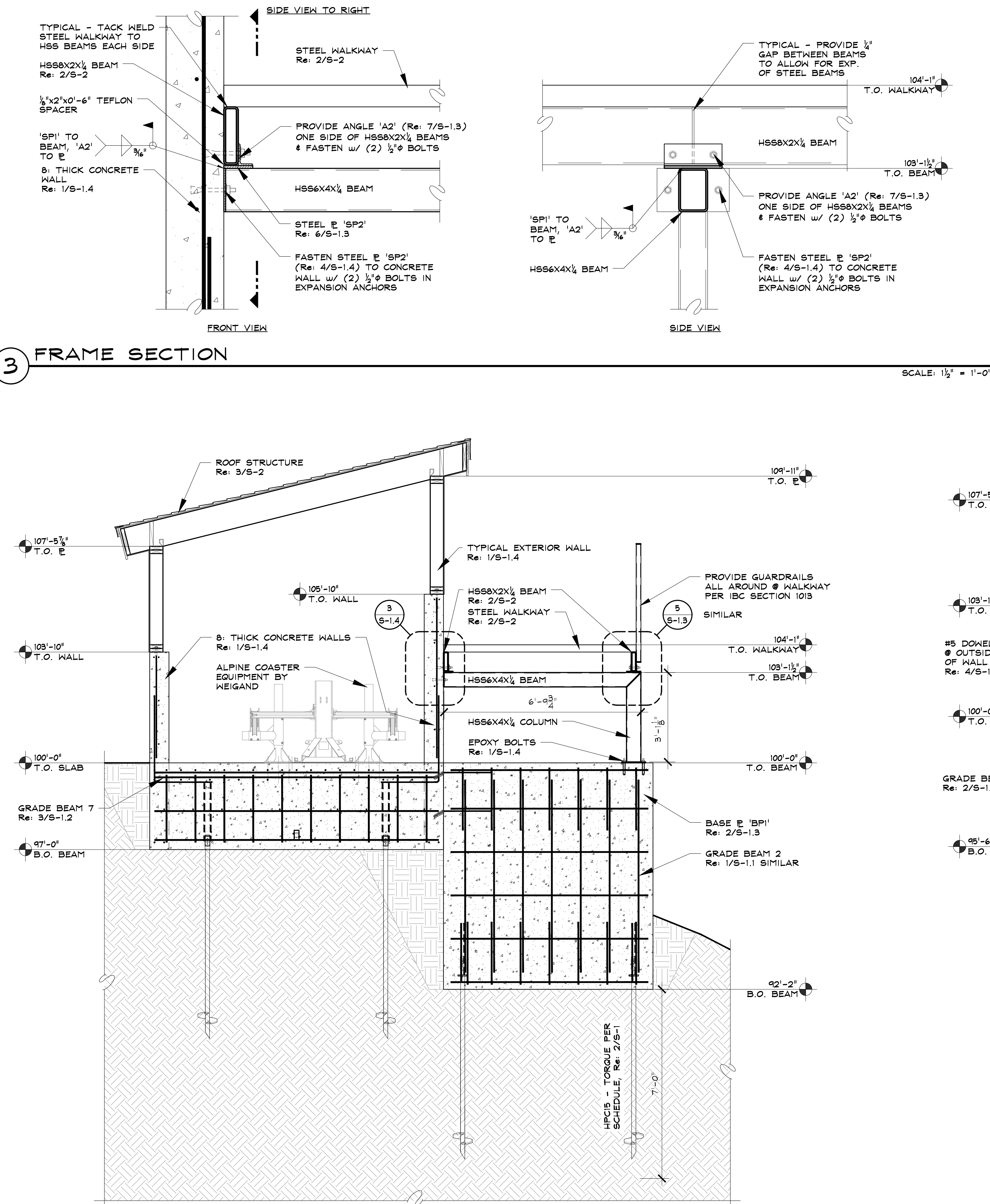
A NEW STRUCTURE FOR:
SSRC - STEAMBOAT SKI & RESORT CORP.

SHEET 7 of 10

SCALE: $\frac{1}{4}'' = 1'-0''$

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3 FRAME SECTION



2 FRAME 'F3' SECTION

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

1 FRAME 'F2' SECTION

Revised
09/07/2016 3:48:19 PM

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

TENSIONING STATION

2305 MT. WERNER CIRCLE
STEAMBOAT SPRINGS, COLORADO

A NEW STRUCTURE FOR:
SSRC - STEAMBOAT SKI & RESORT CORP.

ISSUE DATES

PROGRESS
08 . 03 . 16
PRICING SET
08 . 10 . 16
PERMIT
08 . 11 . 16

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PROJECT # 16020

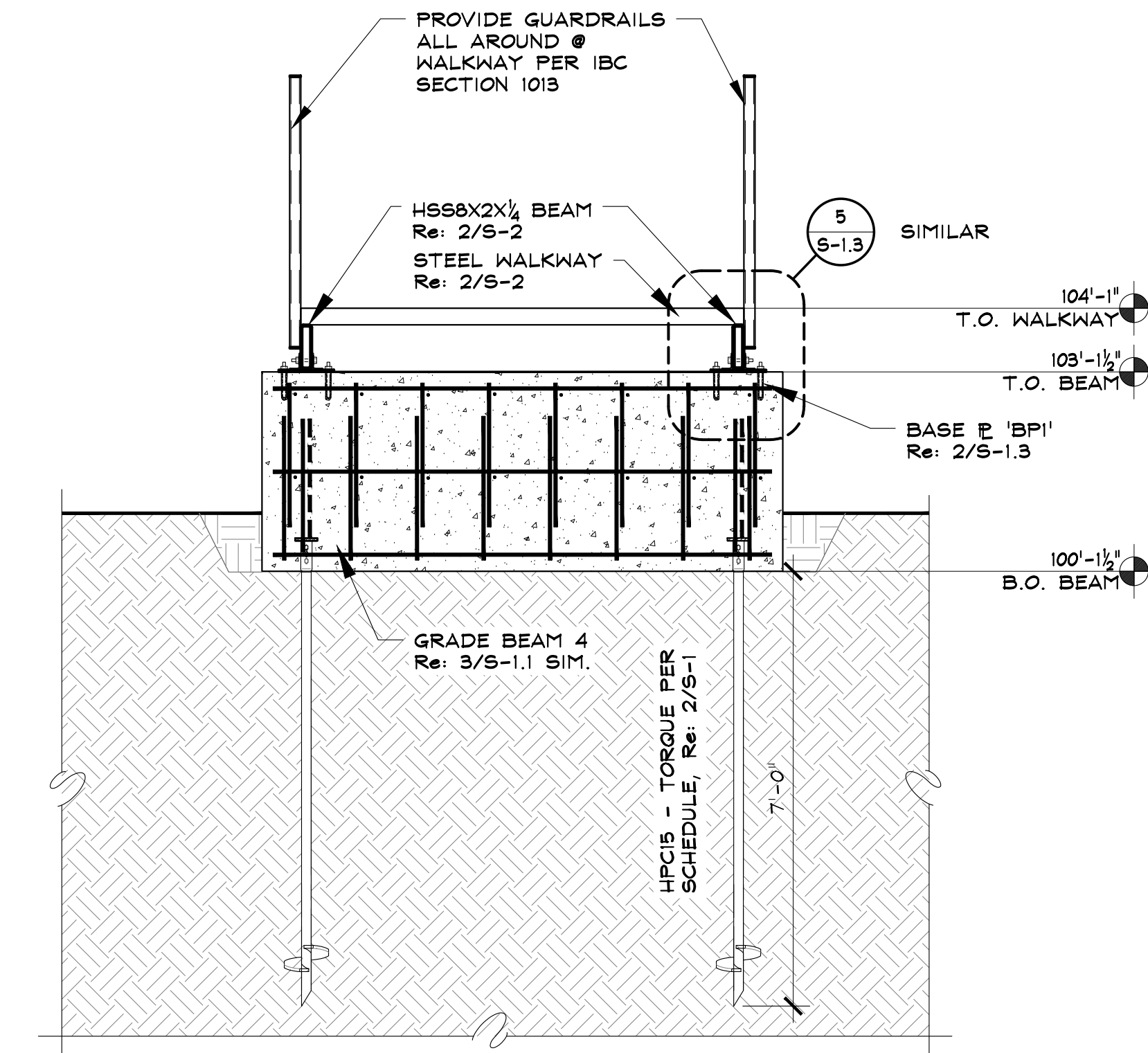
FOUNDATION
SECTIONS

6-1.4

SHEET 8 of 10

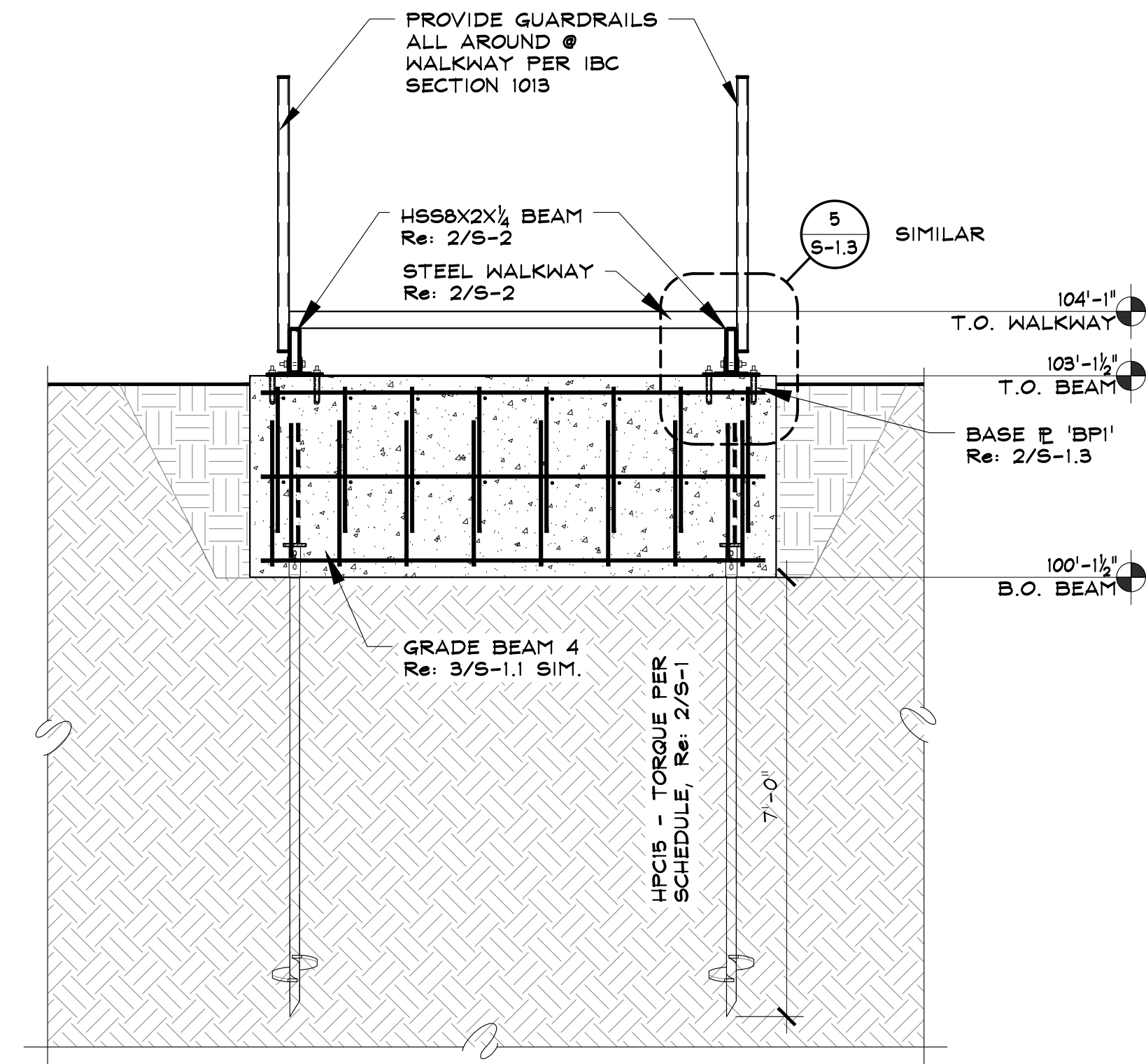
SSRC
Steamboat Engineering & Architectural Design, Inc.
2740 Ace Lane Suite 'E' Steamboat Springs, CO 80487
Phone: 970 . 871 . 8711 Fax: 970 . 871 . 9089
E-mail: Steve@ssrcinc.com

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3 WALKWAY SECTION

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



4 WALKWAY SECTION

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

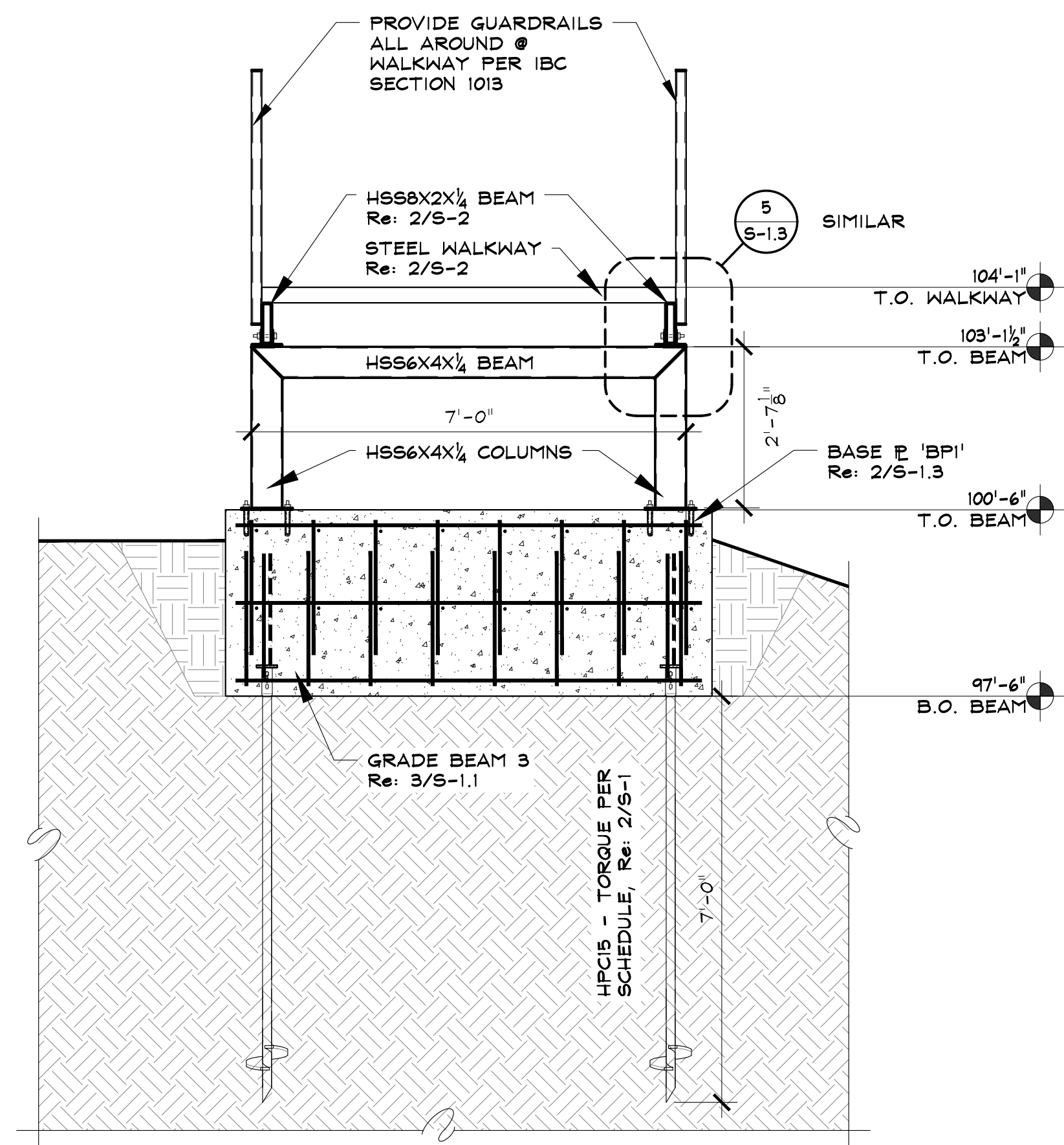
NOTE:

ALL EXTERIOR WALLS SHALL BE 1 hr. FIRE RATED PER GA FILE NO. WP8105 Re: SHEET A-1

CEILING SHALL BE 1 hr. FIRE RATED PER GA FILE NO. RC2601 Re: SHEET A-1

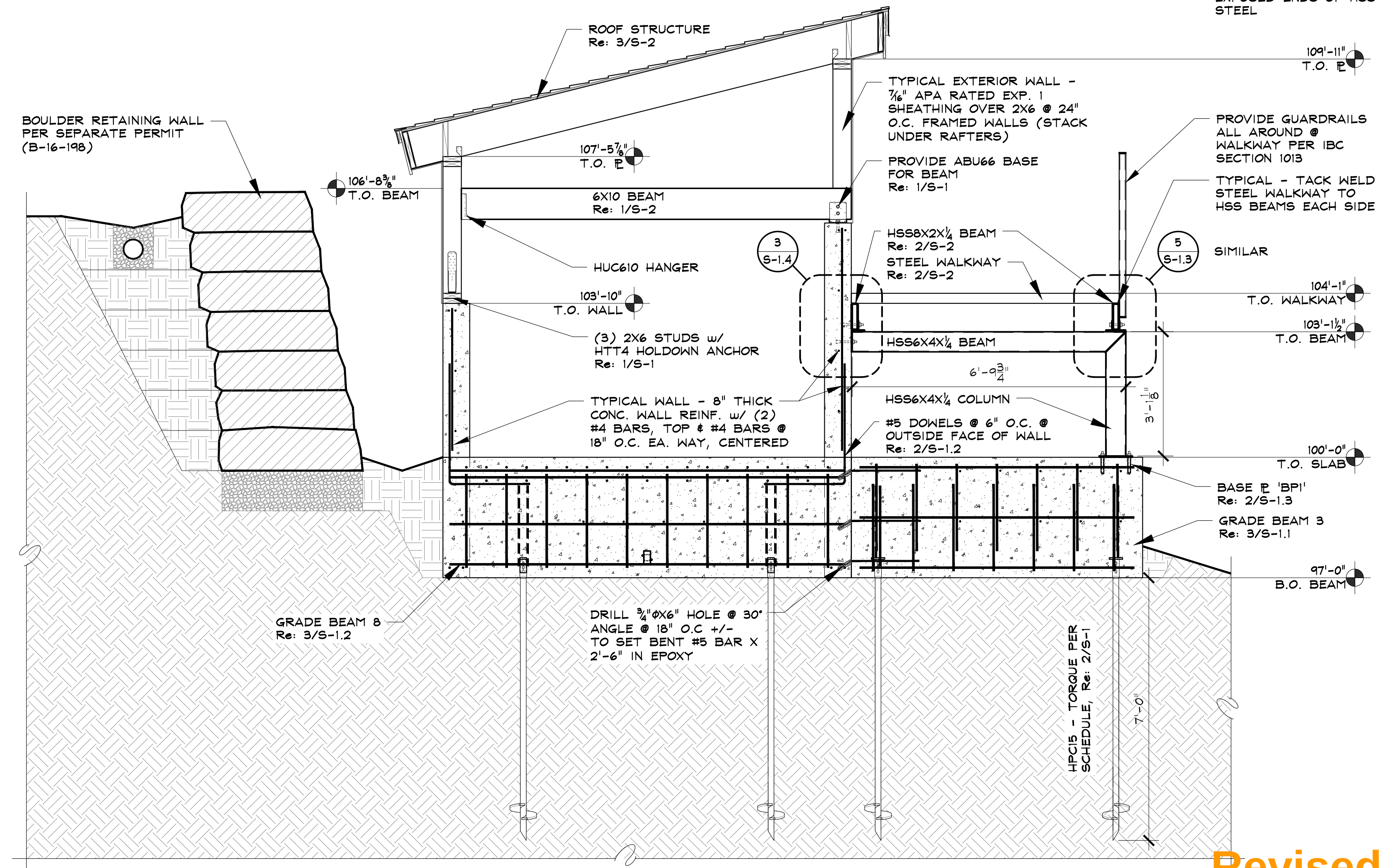
NOTE:

TYPICAL - PROVIDE 1/4" STEEL CAPS ON ALL EXPOSED ENDS OF HSS STEEL



2 FRAME 'F5' SECTION

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



1 FRAME 'F4' SECTION

Revised
09/07/2016 3:48:43 PM

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

TENSIONING STATION

2305 MT. WERNER CIRCLE
STEAMBOAT SPRINGS, COLORADO

A NEW STRUCTURE FOR:

SSRC - STEAMBOAT SKI & RESORT CORP.

ISSUE DATES

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PERMIT
08 . 11 . 16

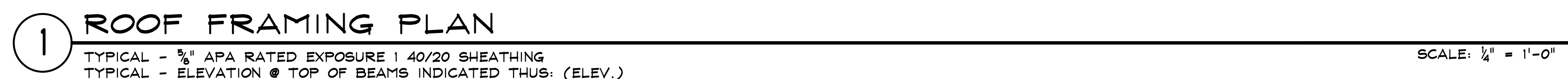
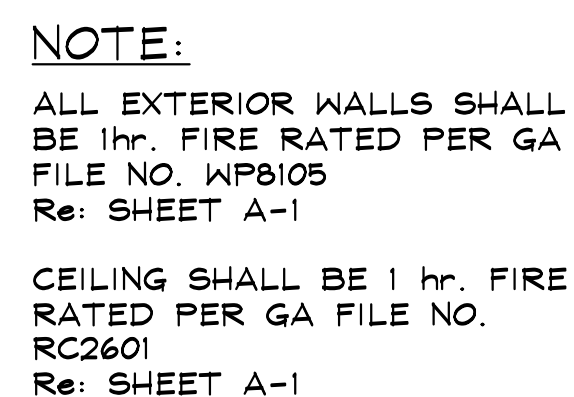
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PROJECT # 16020

FOUNDATION
SECTIONS

5-1.5

SHEET 9 of 10

SSRC
Steamboat Engineering & Architectural Design, Inc.
2740 Acre Lane Suite 'E' Steamboat Springs, CO 80467
9101 Fax: 970 . 871 . 9089
Email: Steve@ssadinc.com



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RECORD SET



TENSIONING STATION

2305 MT. WERNER CIRCLE
STEAMBOAT SPRINGS, COLORADO

SSBC - STEAMBOAT SKI & RESORT CORP.

ISSUE DATES

PROGRESS
08 . 03 . 16
PRICING SET
08 . 10 . 16
PERMIT
08 . 11 . 16

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PROJECT # 16020

FRAMING PLANS
& SECTIONS

S-2

SHEET 10 of 10

STRUCTURAL NOTES

- Design Live Loads:
A. Roofs 85 psf
B. Floors 40 psf
C. Wind 120 mph, Exposure B, ASCE 7-10
D. Seismic Design Category B, Soil Type D, 2009 IBC

- Foundation Criteria:
A. In lieu of a soils report, The Engineer of Record shall use local knowledge to approximate the soil conditions on site and a test pile shall be advanced near the location of the proposed pile installation(s) to determine the approximate depth and helix diameter(s) required to achieve the desired minimum torque(s).
B. The helical pile foundations and tiebacks are designed in accordance with the Practical Design and Inspection Guide for Helical Piles and Helical Tension Anchors Compiled and Prepared by John S. Pack, P.E. for I.M.R., Inc., Denver, Colorado, Revision 2, July 27, 2009.
C. The helical piles and tension anchors shall be installed to the minimum torques and lengths specified herein.
D. The installation of the helical piles and tension anchors shall be monitored and recorded by a representative of SEAD, Inc. or approved independent testing agency.

- Reinforced Concrete:
A. Structural concrete shall be Type I, and have a minimum 28 day strength of 4,000 psi, w/ min 6% entrained air for durability.
B. Reinforcing bars shall conform to ASTM spec. A615-79 and shall be Grade 60.
C. All concrete work shall conform to the requirements of ACI318 and 301, latest edition.
D. At splices, lap bars a minimum of 34 diameters. At corners and intersections, make horizontal continuous or provide matching corner bars. Around openings in walls and slabs, provide (2) #5 bars extending a minimum of 2 feet beyond the edge of the opening.
E. Concrete cover shall conform to ACI 318-08, 7.7. Unless a greater cover is required, concrete cast against earth shall have 3in. min. cover, concrete exposed to earth or weather shall have 1 1/2in. min. cover for No. 5 bars & smaller & 2in. min. cover for No. 6 bars & greater. Concrete not exposed to weather shall have 3/4" min. cover for No. 11 bars & smaller.

- Structural Steel:
A. All bolts, including anchor bolts, shall conform to ASTM spec. A307.
B. Structural steel rolled shapes, including plates and angles, shall be ASTM A36.
C. Expansion bolts called for on the drawings shall be Simpson "Weg-All", "Strong-Bolt 2" or approved wedge type anchors with the following minimum embedments: 3/4" diameter bolts - 3 3/8", 5/8" diameter bolts - 2 3/4", 1/2" diameter bolts - 2 1/4".
D. All epoxy shall be Simpson "Set-XP" and shall be installed per the "Anchoring and Fastening Systems For Concrete and Masonry" Simpson catalog RC-SAS-2012 by qualified personnel.
E. Field welded connections must be inspected by the Engineer Of Record or approved 3rd party.
F. Fillet welds indicated on the plans shall be of E70xx electrodes and shall be the minimum size specified in the AISC Manual of Steel Construction, Table J2.4.

- Structural Wood Framing:
A. Unless noted otherwise, all 2" lumber shall be Douglas Fir S4S No. 2 and better. All solid timber beams and posts shall be DF-L No. 1 or better.
B. Unless noted otherwise, minimum nailing shall be provided as specified in Table No. 2304.9.1, "Fastening Schedule", of the 2009 IBC or Table No. R602.3(1), "Fastener Schedule For Structural Members", of the 2009 IRC.
C. Wall and floor sheathing shall be APA rated with exterior glue and graded in accordance with APA standards. Panel identification and thickness shall be as noted on the drawings.
D. Where light gauge framing anchors are shown or required, they shall be Simpson "Strong Tie" (or equal approved by ICEO). They shall be installed with the number and type of fasteners recommended by the manufacturer to develop the rated capacity.
E. Laminated Veneer Lumber shall be of such stress grade to provide an allowable bending stress of 2,600 psi, allowable shear stress parallel to the glue line of 285 psi and a modulus of elasticity of 1,900,000 psi.

STRUCTURE LEGEND

- = COLUMN BELOW
▣ = COLUMN ABOVE
■ = COLUMN CONTINUOUS THIS LEVEL
--- = RAFTER
--- = JOIST
--- = BEAM
--- = RIM
--- = LEDGER
--- = TYPICAL HEADER
--- = CLOSURE WALL
--- = HANGER
--- = CLIP

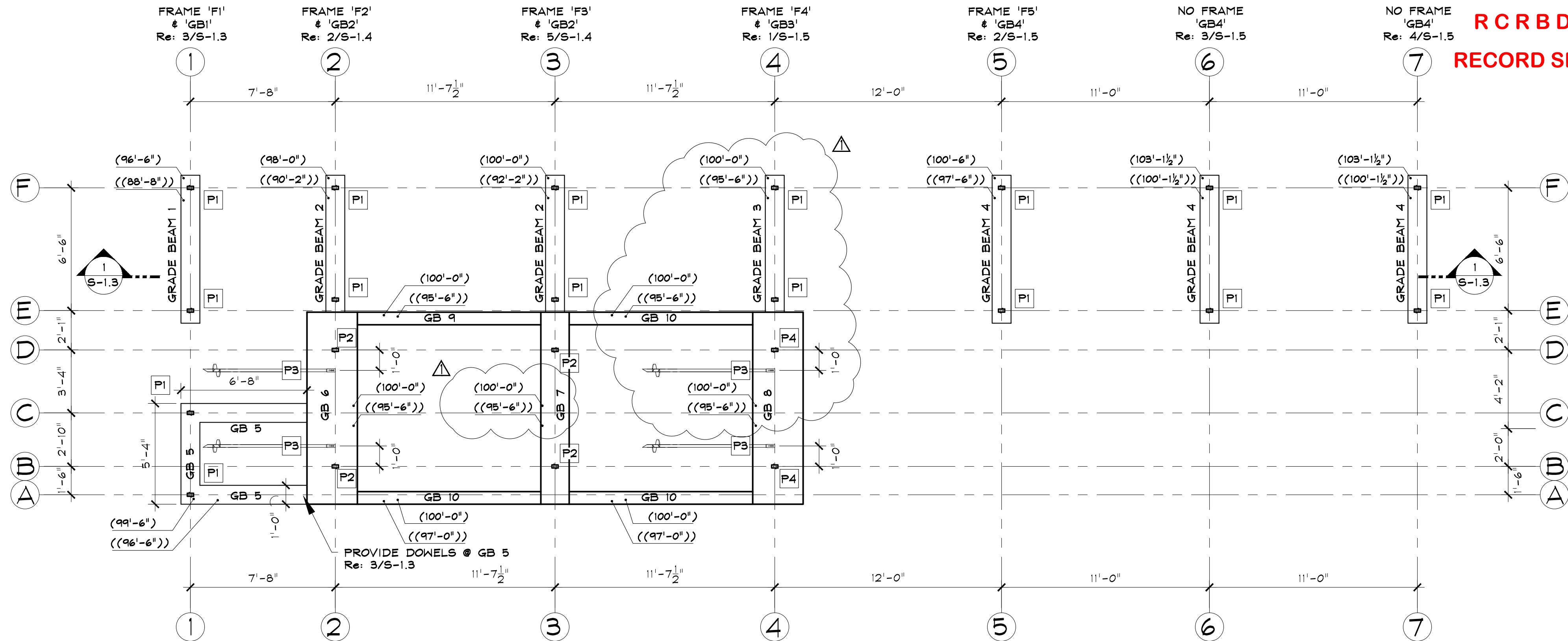
NOTE:

ALL EXTERIOR WALLS SHALL BE 1hr. FIRE RATED PER GA FILE NO. WP8105
Re: SHEET A-1

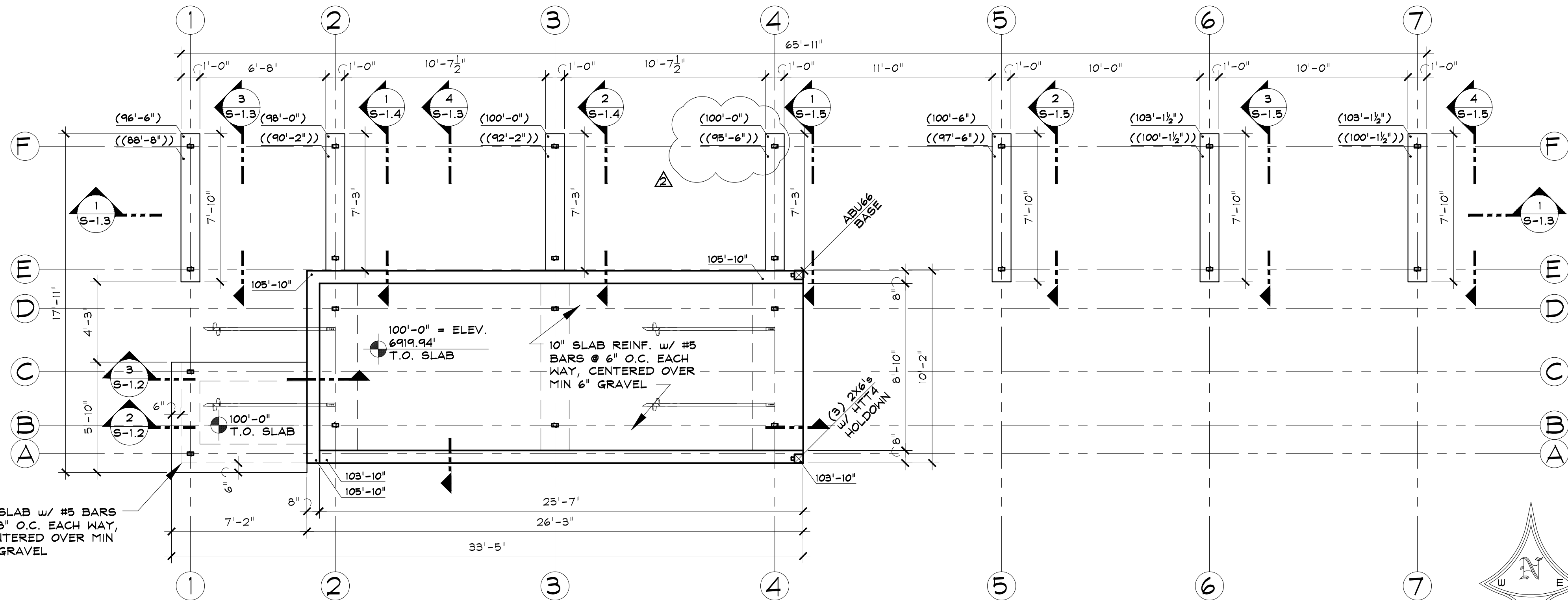
CEILING SHALL BE 1 hr. FIRE RATED PER GA FILE NO. RC2601
Re: SHEET A-1

GRADE BEAM SCHEDULE

BEAM I.D.	SIZE (lxwxh)	REINF.	BEAM I.D.	SIZE (lxwxh)	REINF.
GB 1	7'-10"x11'-0" X7'-10"	(2) #5 BARS @ 18" O.C. w/ STIRRUP 'A' @ 12" O.C., T4B & #5 VERTS @ 12" O.C.	GB 6	10'-2"x2'-8" X4'-6"	(4) #5 BARS @ T4B w/ (2) #5 BARS @ 14" O.C. w/ STIRRUP 'B' @ 12" O.C. & #4 TIES
GB 2	7'-3"x11'-0" X7'-10"	(2) #5 BARS @ 18" O.C. w/ STIRRUP 'A' @ 12" O.C., T4B & #5 VERTS @ 12" O.C.	GB 7	10'-2"x11'-6" X4'-6"	(2) #5 BARS @ 12" O.C. w/ STIRRUP 'C' @ 12" O.C. & #4 TIES
GB 3	7'-13"x11'-0" X4'-6"	(2) #5 BARS @ 16" O.C. w/ STIRRUP 'A' @ 12" O.C., T4B & #4 TIES	GB 8	10'-2"x2'-8" X4'-6"	(2) #5 BARS @ 12" O.C. w/ STIRRUP 'D' @ 12" O.C. & #4 TIES
GB 4	7'-10"x11'-0" X3'-0"	(2) #5 BARS @ 16" O.C. w/ STIRRUP 'A' @ 12" O.C., T4B & #4 TIES	GB 9	9'-8 1/2"x0'-8" X4'-6"	(2) #5 BARS @ TOP & BOTTOM w/ #4 DOWELS @ 18" O.C. INTO SLAB
GB 5	PER PLAN	(2) #5 BARS @ 16" O.C. w/ STIRRUP 'A' @ 12" O.C., T4B & #4 TIES	GB 10	9'-8 1/2"x0'-8" X4'-6"	(2) #5 BARS @ TOP & BOTTOM w/ #4 DOWELS @ 18" O.C. INTO SLAB



2 HELICAL PILE / GRADE BEAM PLAN - GRADE BEAMS 6-10 TO BE POURED MONOLITHICALLY
TYPICAL - ELEVATION @ TOP OF CONCRETE GRADE BEAM INDICATED THUS: (ELEV.)
TYPICAL - ELEVATION @ BOTTOM OF CONCRETE GRADE BEAM INDICATED THUS: ((ELEV.))
SCALE: 1/4" = 1'-0"



1 FOUNDATION PLAN - POUR SLAB MONOLITHICALLY w/ GRADE BEAMS 6, 7, 8, 9 & 10
TYPICAL - ELEVATION @ TOP OF CONCRETE WALL INDICATED THUS: ELEV.
TYPICAL - ELEVATION @ TOP OF CONCRETE GRADE BEAM INDICATED THUS: (ELEV.)
TYPICAL - ELEVATION @ BOTTOM OF CONCRETE GRADE BEAM INDICATED THUS: ((ELEV.))
TYPICAL - COLUMNS THAT BEGIN THIS LEVEL ARE INDICATED ON PLAN
SCALE: 1/4" = 1'-0"

HELICAL PILE SCHEDULE

PILE I.D.	PILE TYPE	ORIENTATION	MIN. LENGTH Feet	MIN. TORQUE Ft. - Lbs.	QUANTITY
P1	HPC15	VERTICAL	7	3,000	(16)
P2	HPC15	VERTICAL	7	5,000	(4)
P3	HPC15	BATTERED 30°	8	5,000	(4)
P4	HPC15	VERTICAL	7	4,000	(2)

- NOTES:
1. MINIMUM TORQUE INCLUDES F.S. = 2 FOR HELICAL PILES
2. PROVIDE RC150 PILE CAP FOR ALL PILES

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TENSIONING STATION

2305 MT. WERNER CIRCLE
STEAMBOAT SPRINGS, COLORADO
A NEW STRUCTURE FOR:
SSRC - STEAMBOAT SKI & RESORT CORP.

ISSUE DATES

- PROGRESS
08 . 03 . 16
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08 . 10 . 16
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08 . 11 . 16
09 . 01 . 16
09 . 07 . 16

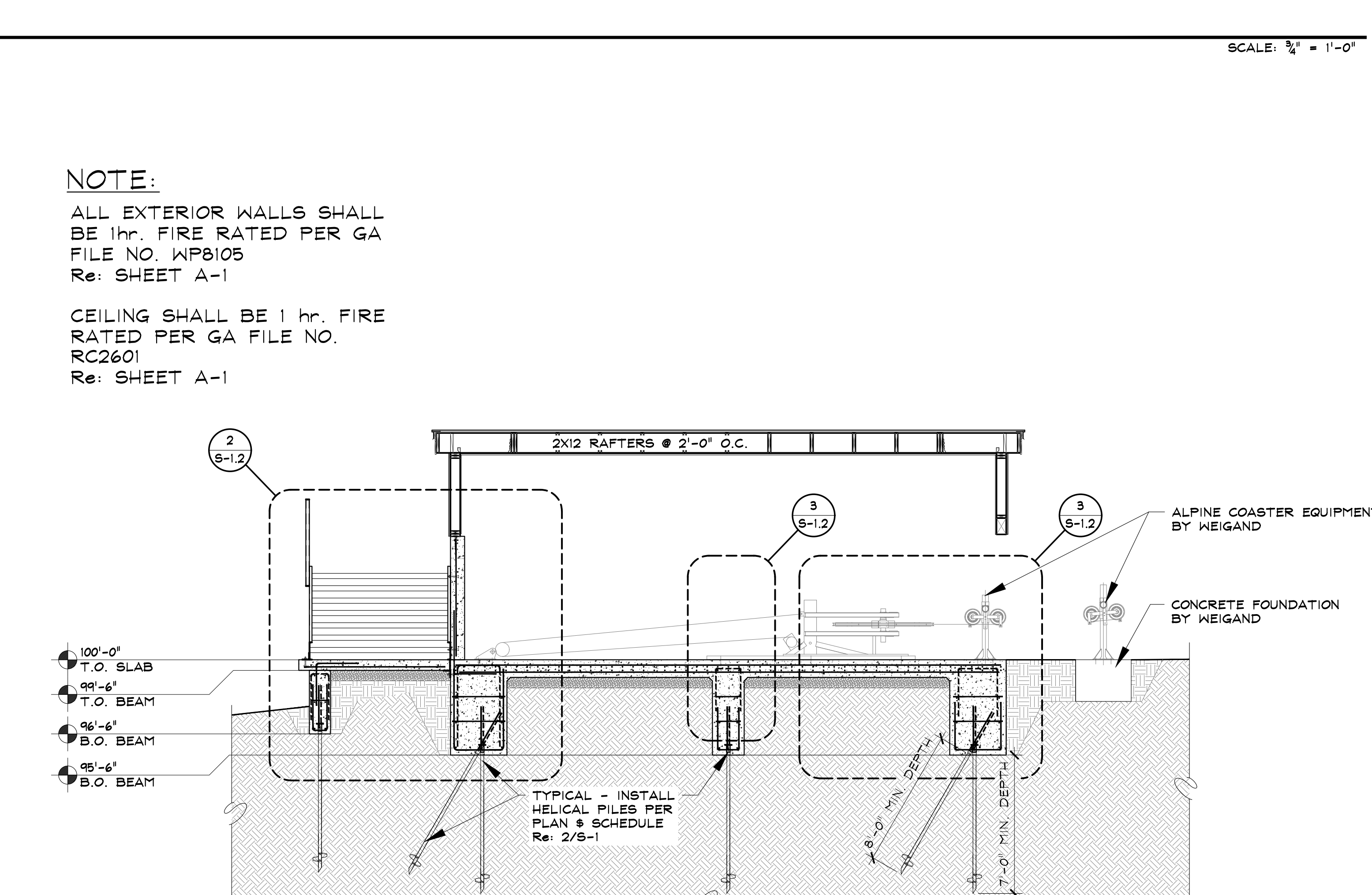
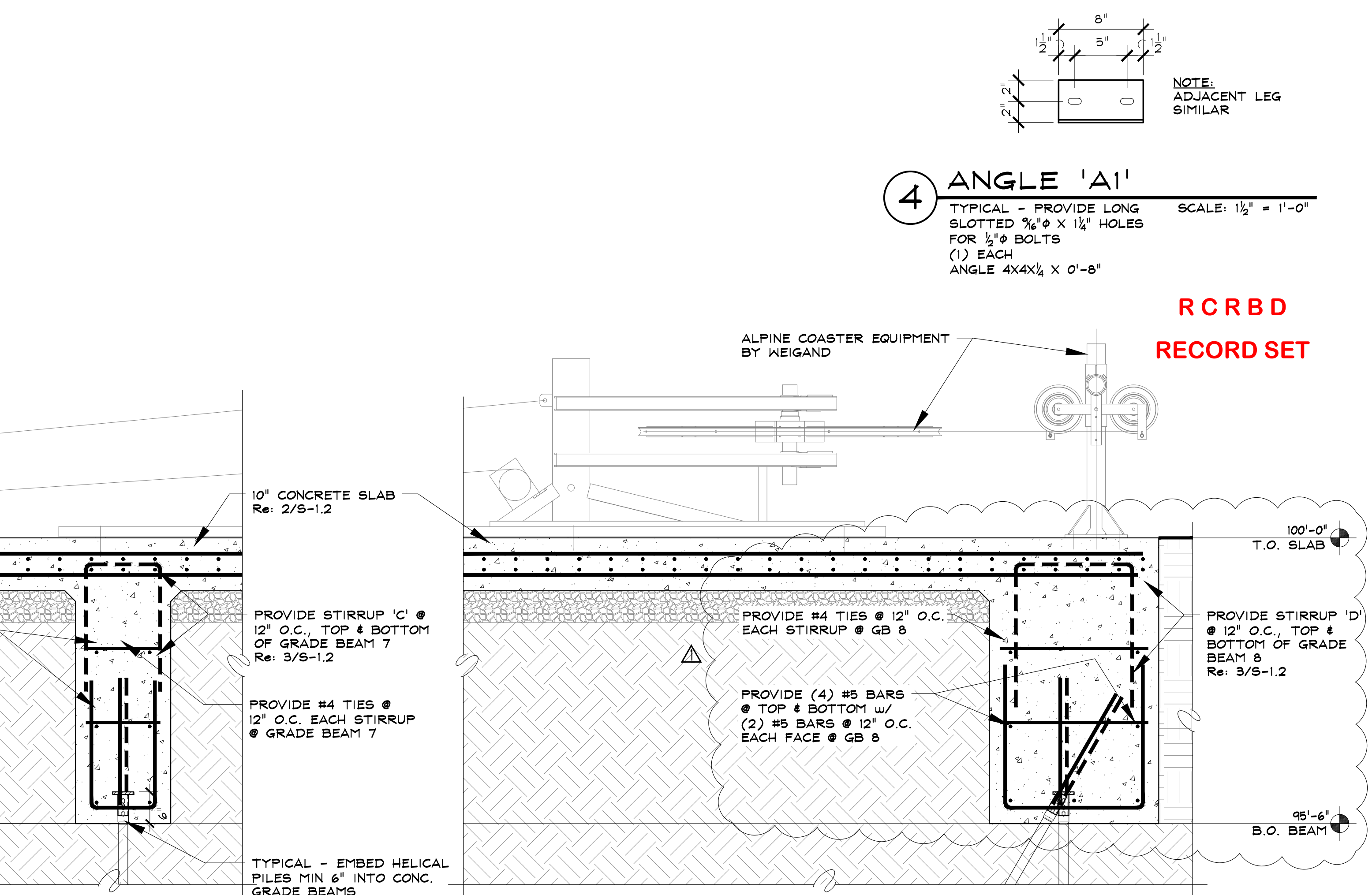
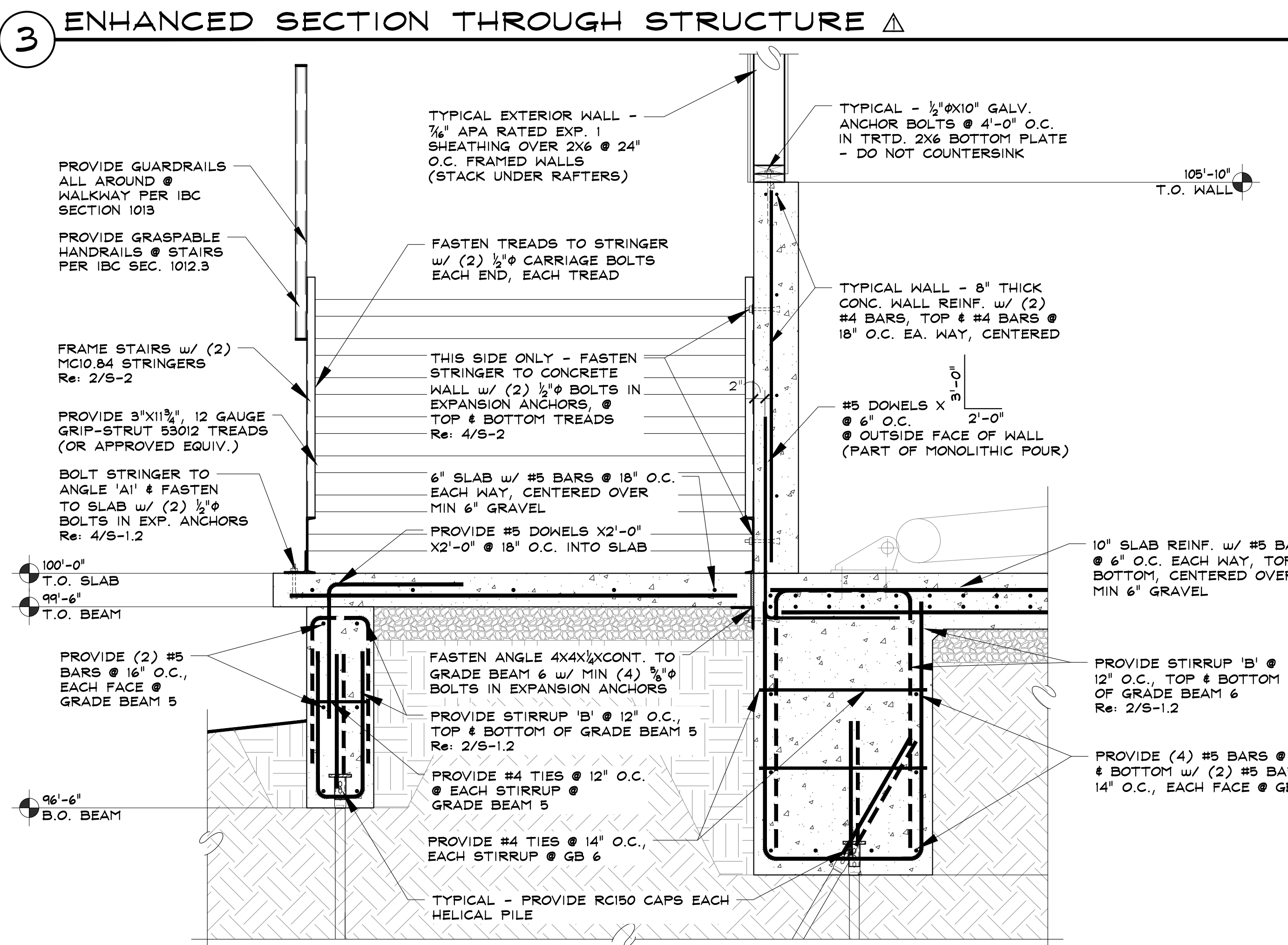
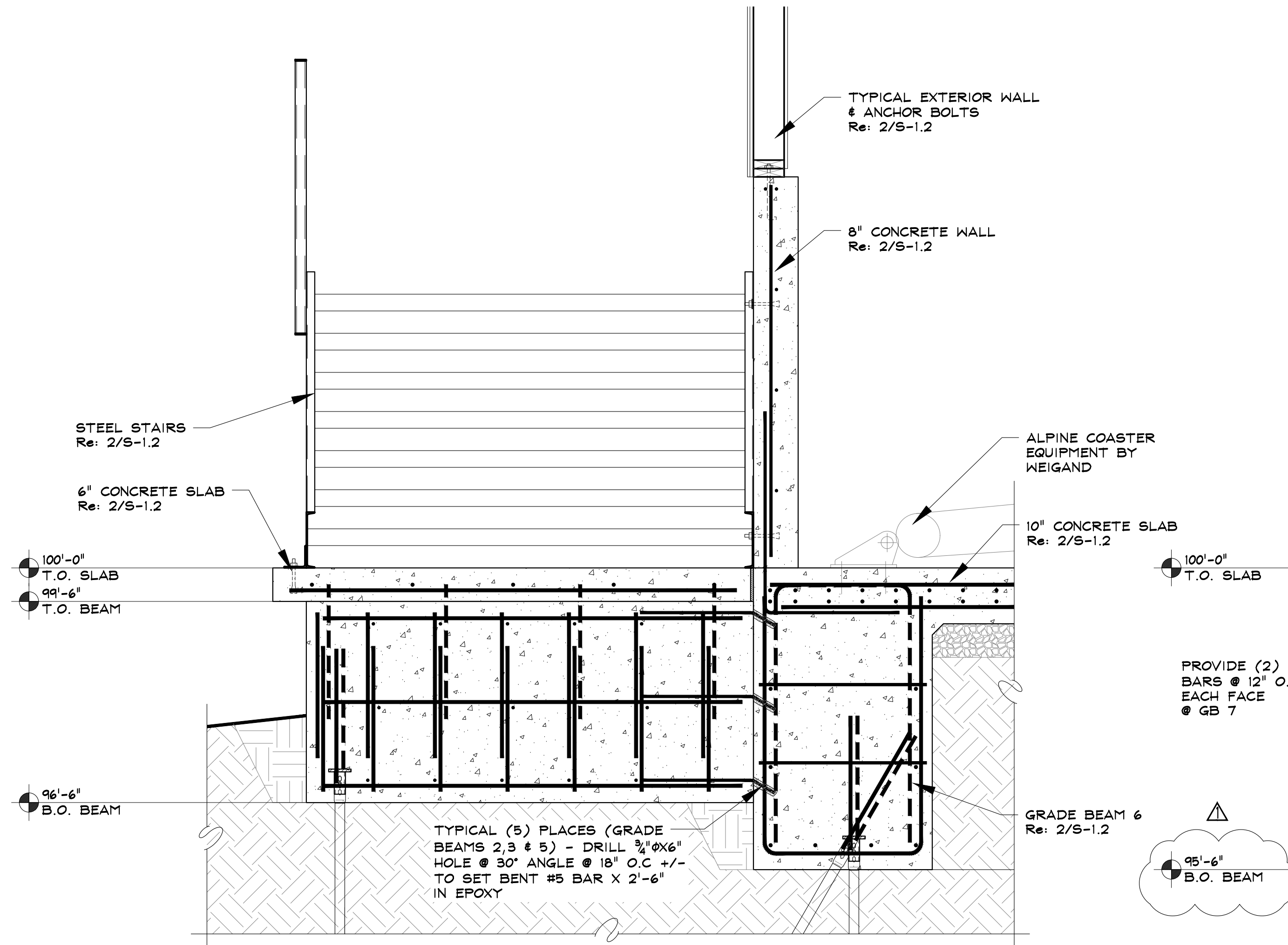
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PROJECT # 16020

FOUNDATION
PLAN & NOTES

S-1

SHEET 4 of 10

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NOTE:
ALL EXTERIOR WALLS SHALL BE 1hr. FIRE RATED PER GA FILE NO. WP8105
Re: SHEET A-1
CEILING SHALL BE 1 hr. FIRE RATED PER GA FILE NO. RC2601
Re: SHEET A-1

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Steamboat Engineering & Architectural Design, Inc.
2740 Ace Lane Suite 'E' Steamboat Springs, CO 80487
Phone: 970.970.8771 Fax: 970.970.9089
E-mail: Steve@seadinc.com

TENSIONING STATION

2305 MT. WERNER CIRCLE
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A NEW STRUCTURE FOR:
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ISSUE DATES

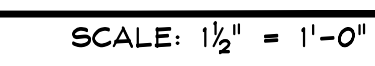
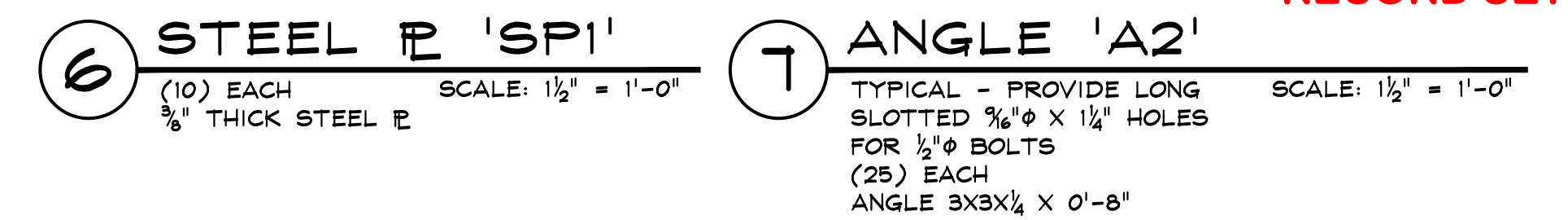
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PERMIT	08 . 11 . 16
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SJM/JEM
PROJECT # 16020

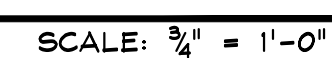
FOUNDATION SECTIONS

S-1.2

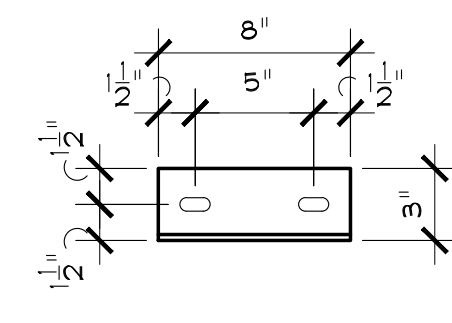
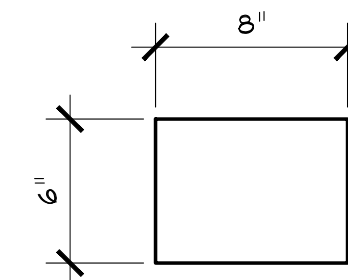
SHEET 6 of 10



BOULDER RETAINING WALL
PER SEPARATE PERMIT
(TB-16-198)



SCALE: $\frac{1}{4}'' = 1'-0''$



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Steamboat Engineering & Architectural Design, Inc.
2740 Acre Lane Suite E Steamboat Springs, CO 80487
Phone: 970 . 871 . 9101 Fax: 970 . 871 . 9089
E-mail: Steve@seadinc.com

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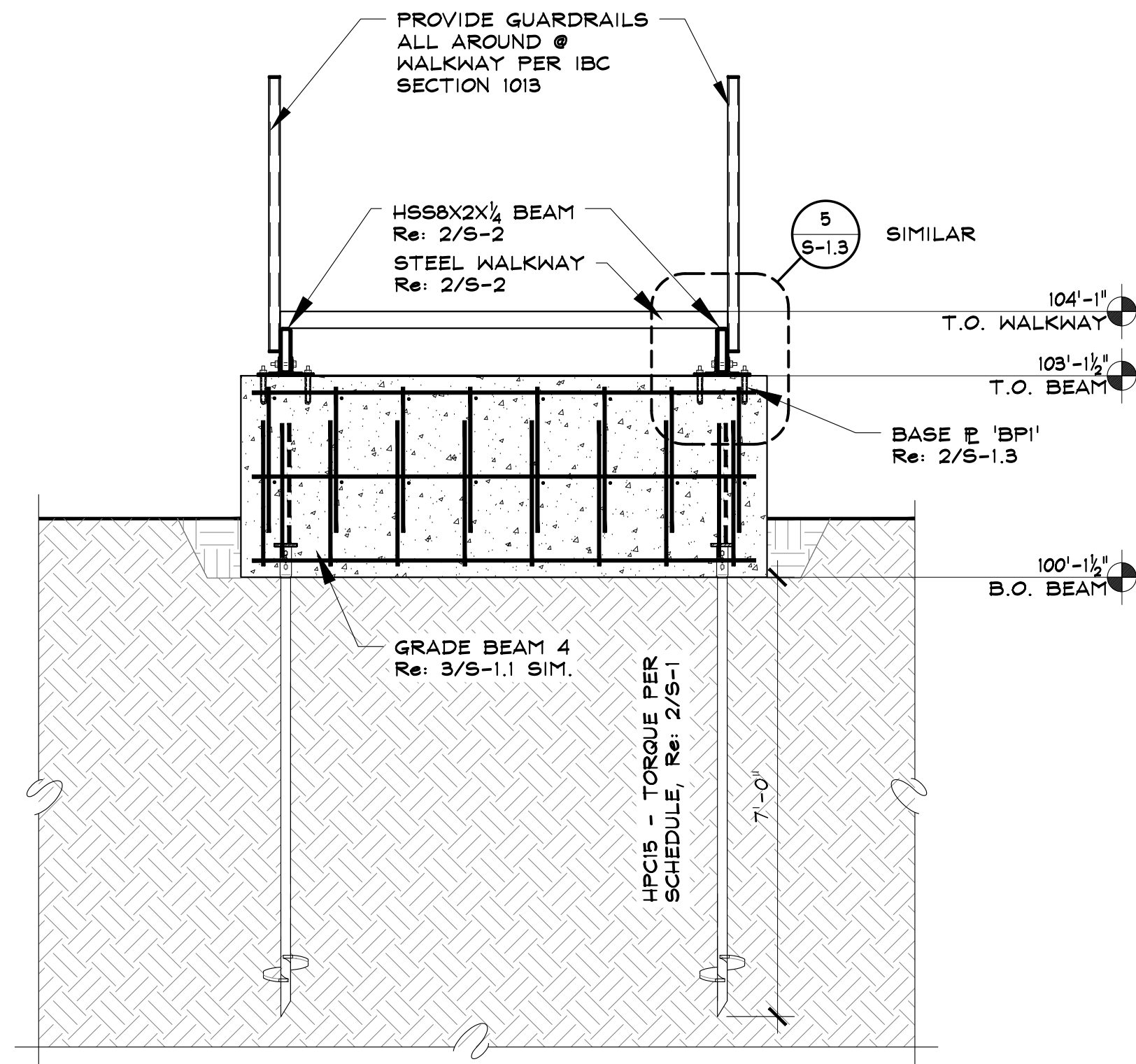
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FOUNDATION SECTIONS

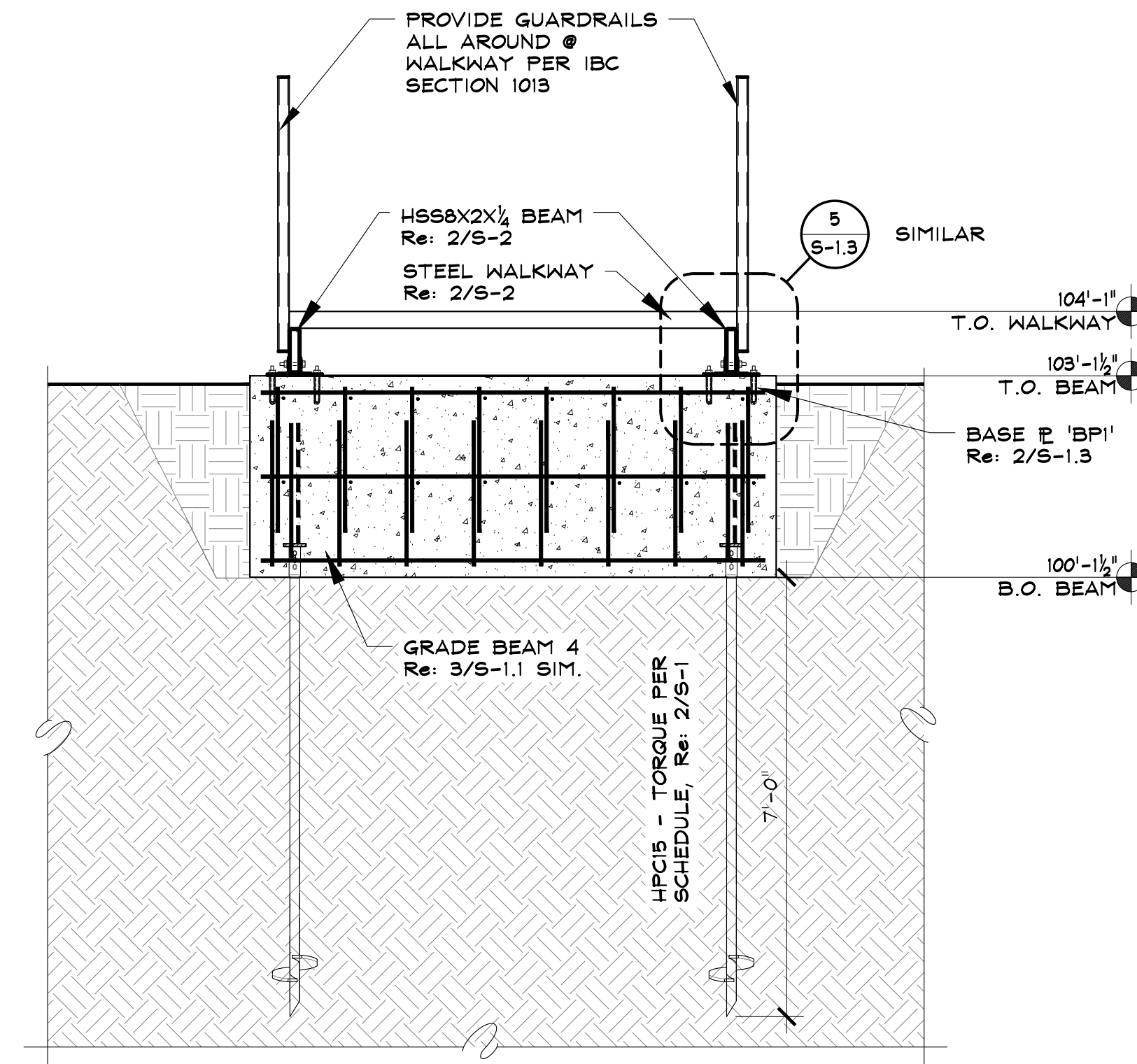
S-1.3

SHEET 7 of 10



3 WALKWAY SECTION

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



4 WALKWAY SECTION

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

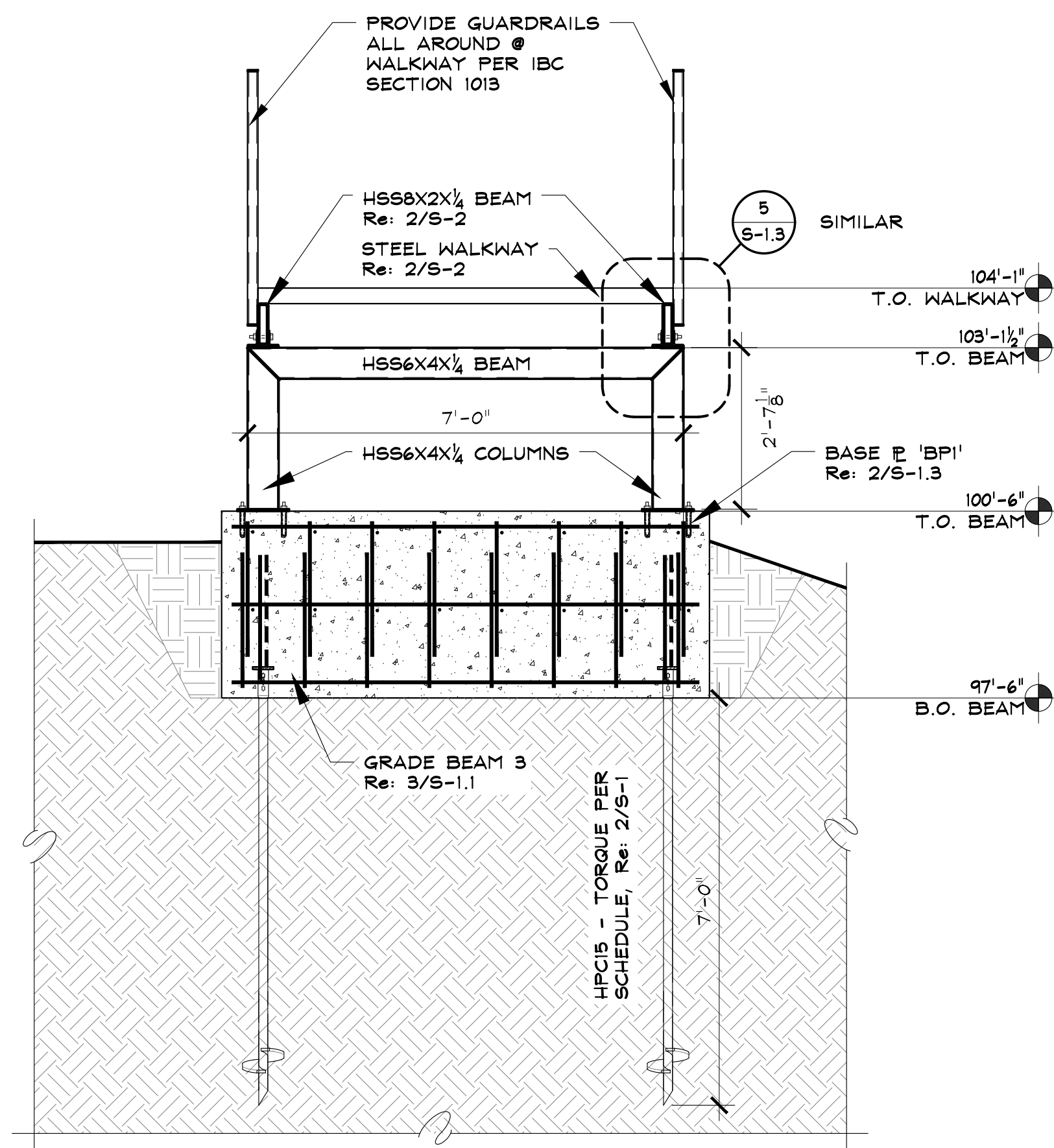
NOTE:

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CEILING SHALL BE 1 hr. FIRE RATED PER GA FILE NO. RC2601 Re: SHEET A-1

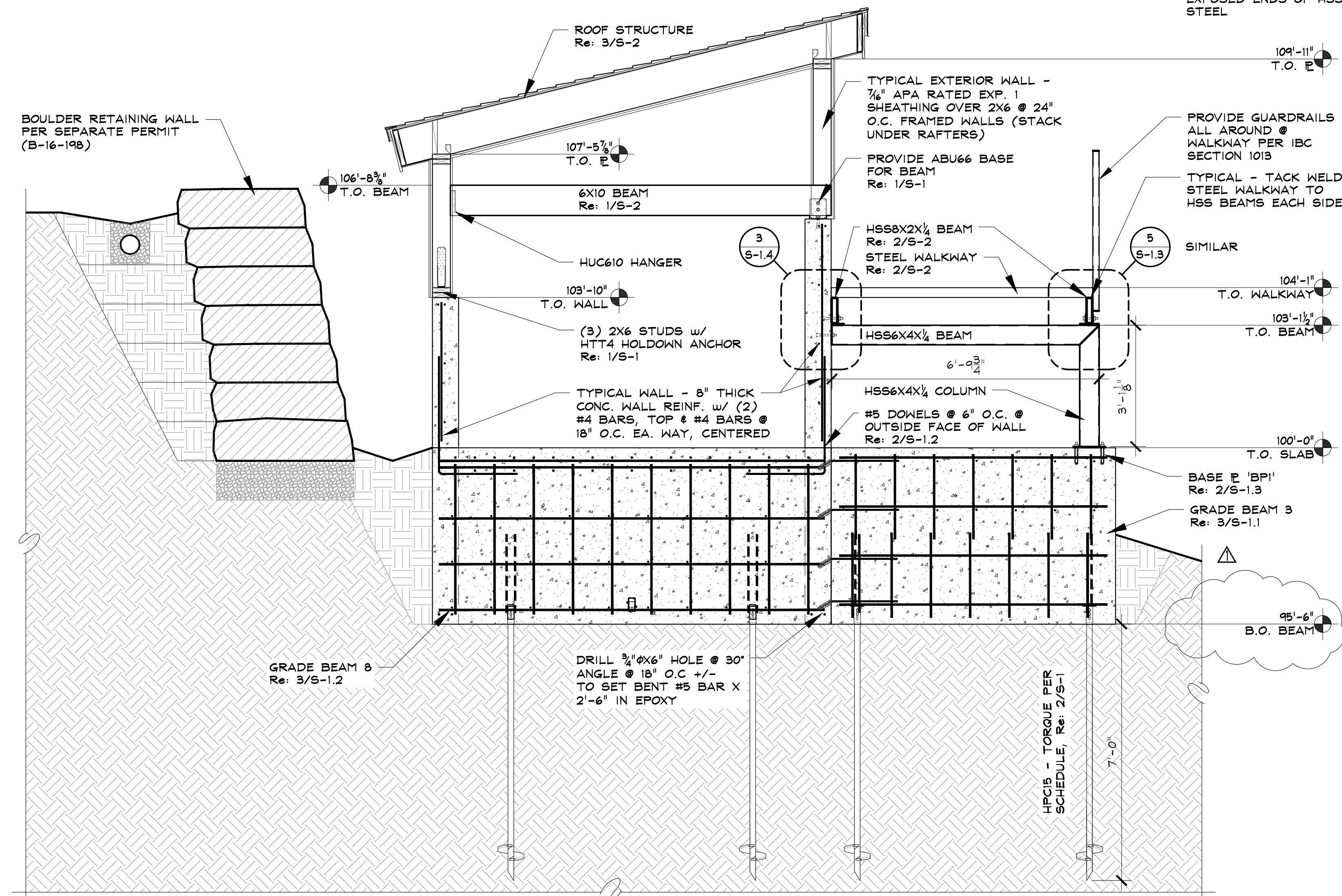
NOTE:

TYPICAL - PROVIDE 1/4" STEEL CAPS ON ALL EXPOSED ENDS OF HSS STEEL



2 FRAME 'F5' SECTION

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



1 FRAME 'F4' SECTION

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

TENSIONING STATION

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FOUNDATION
SECTIONS

S-1.5

SHEET 9 of 10

SEAD
Steamboat Engineering & Architectural Design, Inc.
2740 Acra Lane Suite 'E' Steamboat Springs, CO 80467
970.970.8711 Fax: 970.871.9089
Email: Steve@seadinc.com