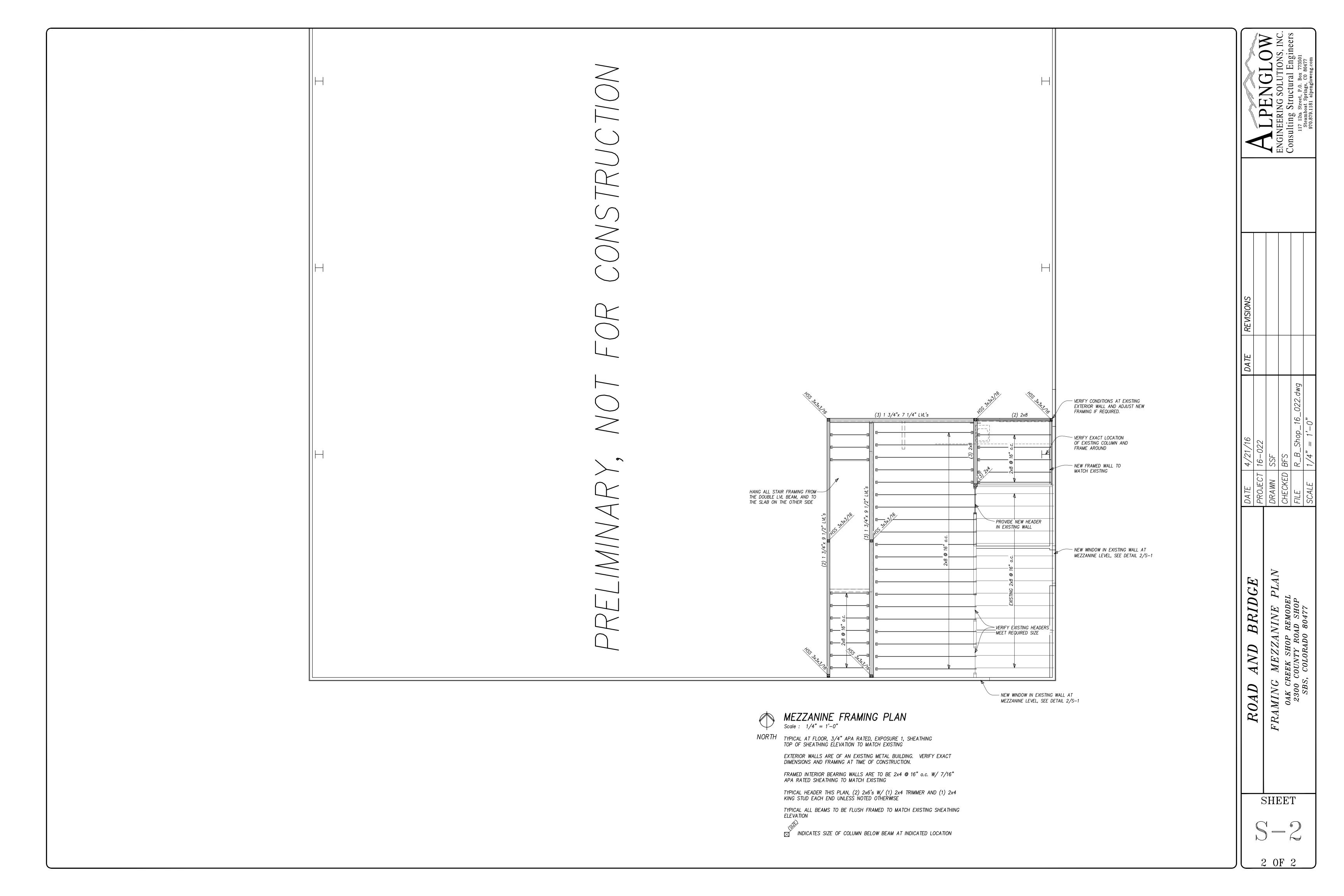
GENERAL NOTES DESIGN LIVE LOADS 6**'**-0" 7**'**-0" 13'-0" 13'-0" 7**'**-0" a. Pre-Manufactured Metal Building...... . See Olympia Steel Buildings Proj. #U1600196A 24'-0" d. Floors..... FOUNDATION DESIGN -(1)a. Design of individual and continuous footings is based on a maximum allowable bearing pressure of 1500 psf dead load plus live load and 500 psf min. dead load placed on the natural undisturbed soils below frost depth as described in soils report. b. Soils report 16-1031 by Northwest Colorado Consultants, Inc. REINFORCED CONCRETE a. Structural concrete shall have a minimum 28 day compressive strength of 3000 psi Type I. b. Reinforcing bars shall conform to ASTM Specification A615—79 and shall be Grade 60. c. At splices, lap bars 38 diameters. At corners and intersections, make horizontal bars continuous or provide matching corner bars. Around openings in walls and slabs, provide 2-#5, extending 2'-0" beyond edge of opening. EPOXY ADHESIVE ANCHORING SYSTEM a. Epoxy adhesive anchoring system shall be Hilti HIT—RE 500 or approved equal. b. Anchor rods shall be furnished with chamfered ends so that either end will accept a nut and washer and meet the requirements of ISO 898 Class 5.8. c. Anchors shall have the following minimum embedments: 3/4" \emptyset - 6 3/4", 5/8" \emptyset - 5 5/8", 1/2"ø – 4 1/2". STRUCTURAL ERECTION AND BRACING REQUIREMENTS a. The structural drawings illustrate the completed structure with all elements in their final positions, properly supported and braced. b. The Contractor, in the proper sequence, shall provide proper shoring and bracing as may be required during construction to achieve the final completed structure. SPECIAL INSPECTIONS 6" THICK CONCRETE SLAB REINFORCED W/ a. All special inspections shall comply with chapter 17 of the International Building Code (IBC). #4's @ 18"o.c. ON MIN. 6" COMPACTED These inspections are in addition to the inspections specified in Section 109 of the IBC. GRAVELS. CONTROL JOINTS MAX. 12'-0" o.c. b. The Special Inspector and testing agent shall be engaged by the Owner or the Owner's Agent, EA. WAY. (TYPICAL) TOP OF SLAB ELEVATION and not by the Contractor or Subcontractor whose work is to be inspected or tested. Any = 100'-0", PRIOR TO SLAB PLACEMENT, ____**|** REMOVE ALL EXISTING FILL \pm 6'-0" AND conflict of interest must be disclosed to the Building Official prior to commencing work. REPLACE W/ FREE DRANING GRANULAR FILL c. The Special Inspector shall be a qualified person who shall demonstrate competence, to the satisfaction of the Building Official, for inspection of the particular type of construction or operation requiring special inspection. d. The credentials of all inspectors, administrators and testing technicians shall be provided if e. The Special Inspector shall keep records of all inspections and shall furnish inspection reports to the Building Official and the Registered Design Professional in Responsible Charge. f. Discovered discrepancies shall be brought to the immediate attention of the Contractor for correction. If such discrepancies are not corrected, the discrepancies shall be brought to the attention of the Building Official and the Registered Design Professional in Responsible The Special Inspection program does not relieve the Contractor of his or her responsibilities. A Final Report of Special Inspections documenting completion of all required Special Inspections, testing and correction of any discrepancies noted in the inspections shall be submitted prior to issuance of a Certificate of Use and Occupancy. i. Job site safety and means and methods of construction are solely the responsibility of the The Special Inspection program does not relieve the Contractor or any other entity of any contractual duties, including quality control, quality assurance, or safety. k. The Contractor is solely responsible for construction means, methods, and job site safety. I. Special inspection is required for the off site fabrication of structural steel load-bearing ITYPICAL, TENSION TIES+ members and assemblies unless the work is done on the premises of a fabricator registered SEE DETAIL 1/S-1 and approved to perform such work without special inspection. m. In addition to special inspections required by chapter 17 of the IBC and those required by the Building Official the following site specific inspections are required: 1. Installation and tightening of high strength bolts. CAST IN PLACE ANCHORS, SEE METAL BUILDING DRAWINGS FOR SIZE AND LAYOUT, SEE ANCHOR BOLT SCHEDULE FOR EMBEDMENT ON S-2 −6" THICK CONCRETE SLAB W/ #4's @ 18"o.c. EA. WAY TYPICAL, STEEL BUILDING BY-EXISTING STRUCTURE-CENTERED IN THE SLAB, REMOVE EXISTING FILL MATERIALS AND REPLACE W/ FREE DRAINING GRANULAR FILL FOUNDATION PLAN TYPICAL, 8" THICK CONCRETE WALL, -BASE PLATE REINFORCE W/ #4's @ 16" o.c. EA. SEE SCHEDULE WAY, CENTERED AND (2) #5's CONT. TOP AND BOTTOM, SEE PLAN FOR NORTH ELEVATION: XXXX.X = 100' 0" FOOTING SIZE AND REINFORCING ┎╪╒═╡═╡ SPREAD FOOTING SCHEDULE ANCHOR BOLT SCHEDULE -12" SQUARE TIE BEAM BETWEEN PILASTERS, REINFORCE W/ (4)#5's AND #3 TIES @ 16"o.c., REINFORCING 3'-0"X 3'-0"X 1'-0" (3) #5'S EA. WAY, BOTTOM WASHER SIZE **EMBEDMENT** BARS IN WALL W/ STANDARD HOOK. PROVIDE 4'-6"x 4'-6"x 1'-0" (5) #5's EA. WAY, BOTTOM MIN. 40" LAP ON BARS AND STAGGER BAR 2 1/2"x2 1/2"x3/8 SPLICE LOCATIONS ALONG LENGTH OF BEAM 6) #5's ONE WAY AND (4) THE OTHER DIRECTION, BOTTOM 6'-6"x 4'-0"x 1'-0" 3 1/2"x3 1/2"x1/2" -12"x 1'-8" PILASTER, REINFORCE W/ (6) 7'-0"x 7'-0"x 1'-0" (7) #5's EA. WAY, BOTTOM -CAST-IN-PLACE ANCHOR BOLT, #5 VERTS FROM FOOTING, #3 TIES @ THREADED ROD W/ PLATE WASHER, SEE ANCHOR BOLT SCHEDULE "i'-4" o.c. AND PROVIDE (2) TIES WITHIN (3) #5's EA. WAY, BOTTOM 2'-6"x 2'-6"x 1'-0" 6" OF TOP OF PILASTER SHEET STEEL COLUMN ON -COMPOTENT BEARING BEARING CAST-IN-PLACE CONCRETE 7**'**-0"



80'-0" 14'-0" 13'-0" 13'-0" 7**'**-0" 6'-0" 14'-0" 7**'**-0" GENERAL NOTES 24**'**-0" DESIGN LIVE LOADS See Capital Steel Job #14-B97224 a. Pre-Manufactured Metal Building.. 125 psf b. Floors..... FOUNDATION DESIGN TYPICAL. 2'-0" DEEP EXTERIOR a. Foundation design was based upon Subsoil and Foundation Investigation provided by Northwest GRADE BEAMS, SEE SECTION Colorado Consultants, Inc. and all design values shall be field verified prior to construction. b. Design of straight—shaft drilled piers is based on a maximum allowable skin friction value of —TYPICAL, ADDITIONAL REINFORCING IN THE SLABS BETWEEN THE END WALLS AND 3000 psf in bed rock and 30,000 psf end bearing. FIRST GRADE BEAM, #5's 18"o.c. IN c. Soils report 16—10301 by Northwest Colorado Consultants, Inc. BOTTOM MAT FOR NET 9" SPACING REINFORCED CONCRETE TYPICAL, ADDITIONAL REINFORCING IN THE LONG a. Structural concrete shall have a minimum 28 day compressive strength of 3000 psi Type I. DIRECTION OF SLAB 12'-0" OVER INTERIOR b. Reinforcing bars shall conform to ASTM Specification A615—79 and shall be Grade 60. PEIRS, (4) #5's @ 24"o.c IN THE TOP AND c. At splices, lap bars 38 diameters. At corners and intersections, make horizontal bars continuous BOTTOM OF SLAB FOR NET 12" SPACING. or provide matching corner bars. Around openings in walls and slabs, provide 2-#5, extending 2'-0" beyond edge of opening. EPOXY ADHESIVE ANCHORING SYSTEM a. Epoxy adhesive anchoring system shall be Hilti HIT—RE 500 or approved equal. b. Anchor rods shall be furnished with chamfered ends so that either end will accept a nut and washer and meet the requirements of ISO 898 Class 5.8. 12'-0" c. Anchors shall have the following minimum embedments: 3/4" \emptyset – 6 3/4", 5/8" \emptyset – 5 5/8", 1/2"ø – 4 1/2". TYPICAL, ADDITIONAL REINFORCING IN THE-SHORT DIRECTION OF SLAB 12'-0" OVER STRUCTURAL ERECTION AND BRACING REQUIREMENTS INTERIOR GRADE BEAMS, #5's @ 18"o.c IN THE LONG SPAN -TYPICAL, 10" SLAB REINFORCED W/ #5's TOP OF THE SLAB FOR NET 9" SPACING. a. The structural drawings illustrate the completed structure with all elements in their final positions, @ 18"o.c IN SHORT DIRECTIONS AND properly supported and braced. 24"o.c. IN LONG DIRECTION, ADDITIONAL b. The Contractor, in the proper sequence, shall provide proper shoring and bracing as may be REINFORCING REQUIRED IN PLACES NOTED ON THE PLAN AND SECTION 1/S-1 required during construction to achieve the final completed structure. SPECIAL INSPECTIONS a. All special inspections shall comply with chapter 17 of the International Building Code (IBC). These inspections are in addition to the inspections specified in Section 109 of the IBC. b. The Special Inspector and testing agent shall be engaged by the Owner or the Owner's Agent, and not by the Contractor or Subcontractor whose work is to be inspected or tested. Any conflict of interest must be disclosed to the Building Official prior to commencing work. c. The Special Inspector shall be a qualified person who shall demonstrate competence, to the satisfaction of the Building Official, for inspection of the particular type of construction or operation requiring special inspection. d. The credentials of all inspectors, administrators and testing technicians shall be provided if TYPICAL, 2'-0" DEEP EXTERIOR | GRADE BEAMS, SEE SECTION e. The Special Inspector shall keep records of all inspections and shall furnish inspection reports to 1/S-1 the Building Official and the Registered Design Professional in Responsible Charge. f. Discovered discrepancies shall be brought to the immediate attention of the Contractor for correction. If such discrepancies are not corrected, the discrepancies shall be brought to the 16'-7 1/2" 22'-8 1/2" 22'-8 1/2" 16'-7 1/2" attention of the Building Official and the Registered Design Professional in Responsible Charge. The Special Inspection program does not relieve the Contractor of his or her responsibilities. h. A Final Report of Special Inspections documenting completion of all required Special Inspections, -TYPICAL, 2'-0" DEEP INTERIOR testing and correction of any discrepancies noted in the inspections shall be submitted prior to GRADE BEAMS, SEE SECTION issuance of a Certificate of Use and Occupancy. i. Job site safety and means and methods of construction are solely the responsibility of the Contractor. j. The Special Inspection program does not relieve the Contractor or any other entity of any contractual duties, including quality control, quality assurance, or safety. k. The Contractor is solely responsible for construction means, methods, and job site safety. I. Special inspection is required for the off site fabrication of structural steel load—bearing members TYPICAL, ADDITIONAL REINFORCING IN THE and assemblies unless the work is done on the premises of a fabricator registered and approved SLABS BETWEEN THE END WALLS AND to perform such work without special inspection. FIRST GRADE BEAM, #5's 18"o.c. IN m. In addition to special inspections required by chapter 17 of the IBC and those required by the BOTTOM MAT FOR NET 9" SPACING Building Official the following site specific inspections are required: 1. Installation and tightening of high strength bolts. 2. Drilled pier foundation EXISTING STRUCTURE-TYPICAL, STEEL BUILDING BY OTHERS -ADDITIONAL #5's x 12'-0" CENTERED OVER GRADE BEAM-@ 18" o.c. FOR NET 9" SPACING IN THE TOP MAT -10" THICK STRUCTURAL CONCRETE SLAB ON 6" OF FREE DRAINING FILL, TYPICAL REINFORCING IS #5's @ 18"o.c. TOP AND BOTTOM SHORT DIRECTION AND #5's -STEEL COLUMN @ 24"o.c. TOP AND BOTTOM IN LONG DIRECTION ADDITIONAL (4) #5's x 12'-0" @ 24"o.c.--BASE PLATE OVER INTERIOR GRADE BEAM, TOP AND SEE SCHEDULE ANCHOR BOLT SCHEDULE BOTTOM MATS FOR NET 12" SPACING FOUNDATION PLAN MINIMUM PLATE MINIMUM ANCHOR ROD Ø WASHER SIZE **EMBEDMENT** Scale: 3/16" = 1'-0"FINISH— 2 1/2"x2 1/2"x3/8' 3/4" 12" GRADE NORTH ELEVATION: XXXX.X = 100' 0" 3 1/2"x3 1/2"x1/2" -ADDITIONAL #5's @ 18"o.c. SPANNING FROM END WALL TO FIRST GRADE BEAM IN BOTTOM MAT FOR NET 9" SPACING (TYPICAL EA. END) -REINFORCE GRADE BEAM W/ (6) #5's AS REINFORCE GRADE BEAM SHOWN AND #4 STIRRUPS @ 12" o.c., W/ (5) #5's AS SHOWN -CAST-IN-PLACE ANCHOR BOLT, ADDITIONAL (12) STIRRUPS REQUIRED TO NET AND #4 STIRRUPS @ 12"o.c. THREADED ROD W/ PLATE WASHER, 6"o.c. FOR 12" SECTION CENTERED OVER PEIR SEE ANCHOR BOLT SCHEDULE -SOCKET PIER STEEL COLUMN ON SHEET IN BEDROCK IN BEDROCK CAST-IN-PLACE CONCRETE TYPICAL 16" OCONCRETE PIER W/ (4) #5 VERTS. TYPICAL 16"ø CONCRETE PIER W/ (4) #5 VERTS. FULL PIER HEIGHT, EXTEND REINFORCING 1'-6" FULL PIER HEIGHT, EXTEND REINFORCING 1'-6" MIN. INTO GRADE BEAM, CASING AND DEWATERING MIN. INTO GRADE BEAM, CASING AND DEWATERING EQUIPMENT WILL LIKELY BE REQUIRED TO REDUCE EQUIPMENT WILL LIKELY BE REQUIRED TO REDUCE WATER INFILTRATION AND CAVING IN THE PEIR WATER INFILTRATION AND CAVING IN THE PEIR