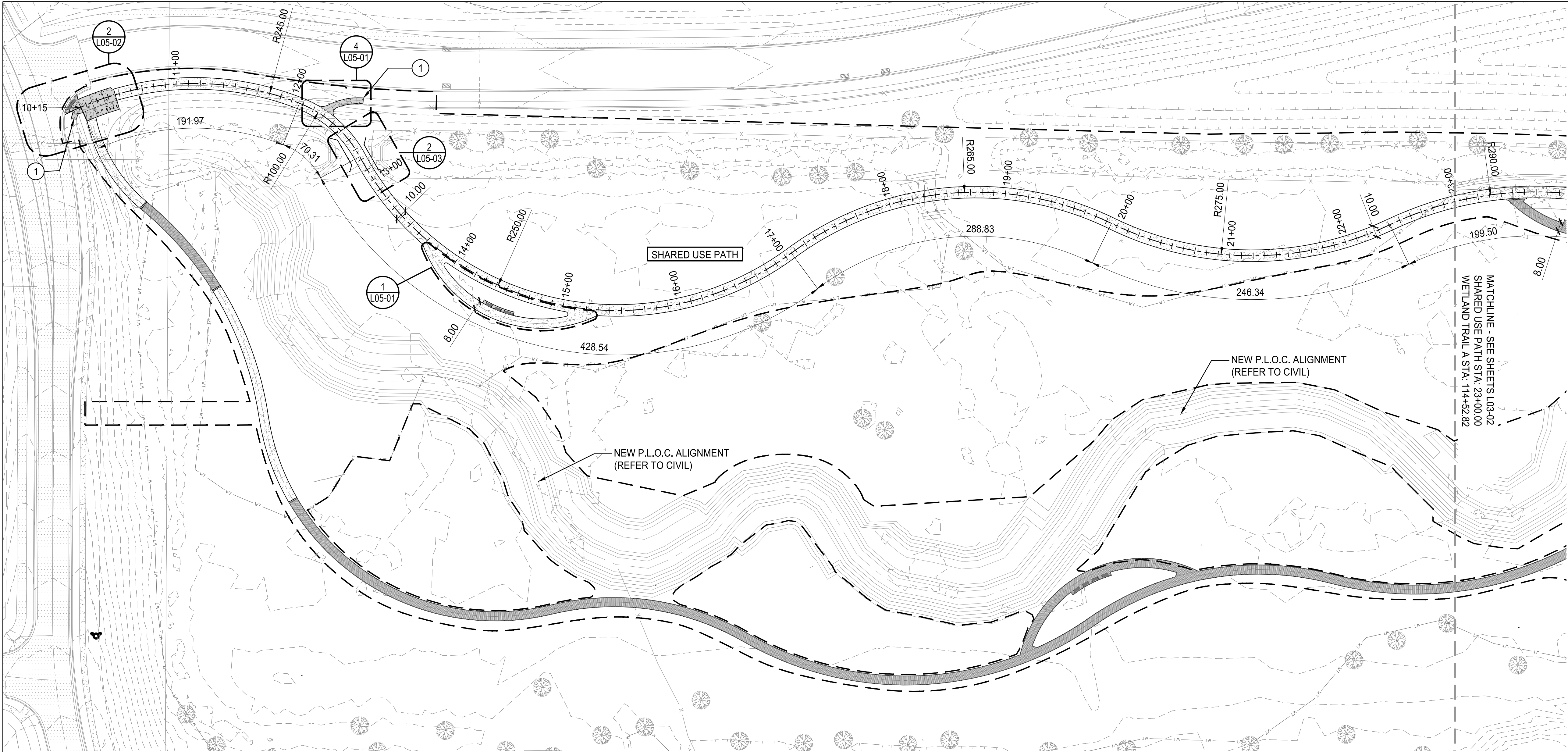


CADD USER: Harding Shi FILE: S:\PROJECTS\01818\18727-RIDGE CREEK PARK\CAD\CURRENT\SHEETS\18727-L03-SHARE USE TRAIL PLAN PROFILE.DWG PLOT SCALE: 1:2.5849 PLOT DATE: 9/4/2020 4:03 PM
e:\p\m\Design\2370\086\002370\086_Design Features.dwg Plot at 0 10/02/2019 11:07:32



SHEET NOTES

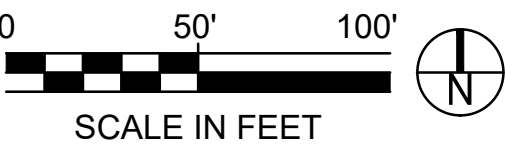
1. REFER TO BARR ENGINEERING PLANS FOR UTILITY AND STORMWATER IMPROVEMENTS, PLOC REALIGNMENT AND ESTABLISHMENT, AND PLANTINGS.
2. RIVERSIDE FIELDS PARK IMPROVEMENTS TO BE INCLUDED IN FUTURE PHASE.
3. REFER TO L01-01 FOR ALL HORIZONTAL CONTROLS & DIMENSIONS.

KEY NOTES

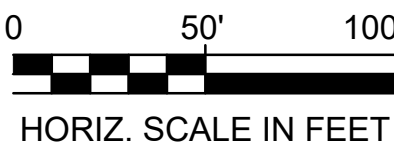
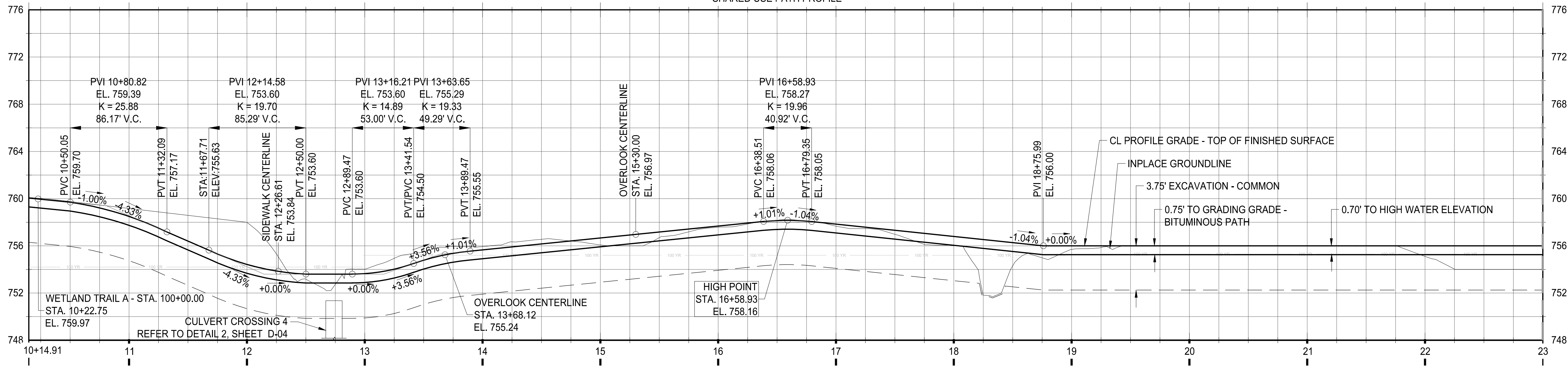
- 1 SAW CUT AND REMOVE EXISTING CONCRETE TO RECEIVE NEW CONCRETE PATH.
- 2 SAW CUT AND REMOVE EXISTING ASPHALT TO RECEIVE NEW ASPHALT PATH.
- 3 REFER TO S-02 FOR CORN CRIB LAYOUT AND DETAIL

SITE MATERIALS LEGEND

	BITUMINOUS TRAIL	1 L02-01
	CONCRETE PAVING	3 L02-01
	RAISED BOARDWALK	2 L02-01



SHARED USE PATH PROFILE



DRAFT ISSUE FOR BID
NOT FOR CONSTRUCTION

NO.	BY	CHK	APP.	DATE	REVISION DESCRIPTION

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINTED NAME: DARREN J. MEYER

SIGNATURE: _____

DATE: 09/04/2020 LICENSE #: 55670

CLIENT	10/04/19	03/17/20	04/29/20	09/04/20					
BID									
CONSTRUCTION									
RELEASED TO/FOR	A	B	C	0	1	2	3		
DATE RELEASED									

MKSK
LANDSCAPE ARCHITECTURE • URBAN PLANNING

504 RHETT STREET SUITE 204
GREENVILLE, SOUTH CAROLINA 29601
864 6265715 MKSKSTUDIOS.COM

Scale	AS SHOWN
Date	09/04/2020
Drawn	KG
Checked	BA
Designed	MKSK
Approved	DJM

CITY OF SHAKOPEE, MN
485 GORMAN ST., SHAKOPEE, MN 55379

RIDGE CREEK PARK & PLOC IMPROVEMENTS
SHAKOPEE, MN

SHARED USE TRAIL PLAN & PROFILE

PROJECT NO.	s18727.01
CLIENT PROJECT NO.	PR-19-001
DWG. NO.	L03-01
REV. NO.	

1. THESE NOTES ARE COMPLEMENTARY TO THE SPECIFICATIONS AND DRAWINGS AND REPRESENT MINIMUM REQUIREMENTS. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. DO NOT SCALE DRAWINGS.
3. THE STRUCTURAL DRAWINGS REPRESENT THE FINISHED STRUCTURE AND, EXCEPT WHERE SPECIFICALLY SHOWN, DO NOT INDICATE THE METHOD OR MEANS OF CONSTRUCTION.
4. FOLLOW MANUFACTURER'S INSTRUCTIONS FOR PREPARATION AND INSTALLATION OF PURCHASED MATERIALS AND EQUIPMENT.
5. TESTS WILL BE PAID FOR BY THE OWNER; HOWEVER, IN THE EVENT THAT WORK IS DEFECTIVE, THE CONTRACTOR WILL PAY FOR THE TESTS AND ANY ADDITIONAL TESTING AND WORK REQUIRED TO CONFIRM THAT THE DEFECTIVE WORK HAS BEEN CORRECTED AND COMPLIES WITH THIS SPECIFICATION.
6. PERFORM WORK IN COMPLIANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL CODES AND REGULATIONS.
 - a. 2012 INTERNATIONAL BUILDING CODE AND REFERENCED STANDARDS WITH 2015 MINNESOTA BUILDING CODE AMENDMENTS.

7. DESIGN LOADS
- a. DEAD LOAD:
 - 1) ROOF DEAD LOAD = 10 PSF
 - 2) FLOOR DEAD LOAD = 10 PSF
 - b. LIVE LOAD:
 - 1) FLOOR LIVE LOAD: LL = 100 PSF
 - 2) ROOF LIVE LOAD = 20 PSF
 - c. SNOW LOAD:
 - 1) GROUND SNOW (P_g) = 50 PSF
 - 2) FLAT ROOF SNOW (P_f) = 50.4 PSF
 - 3) EXPOSURE FACTOR (C_e) = 1.2
 - 4) IMPORTANCE FACTOR (I) = 1.0
 - 5) THERMAL FACTOR (C_t) = 1.2
 - 6) SLOPED ROOF FACTOR (SLIPPERY) = 0.86
 - d. WIND LOAD:
 - 1) ULTIMATE DESIGN WIND SPEED (3-SECOND GUST) (VULT) = 120 MPH
 - 2) NOMINAL DESIGN WIND SPEED (VASD) = 18.8 PSF
 - 3) RISK CATEGORY = III
 - 4) EXPOSURE CATEGORY = C
 - 5) INTERNAL PRESSURE COEFFICIENT (GCpi) = +/-0.18
 - 6) COMPONENTS AND CLADDING DESIGN WIND PRESSURE = 26.6 PSF

a. TERRACON, "GEOTECHNICAL ENGINEERING REPORT: RIDGE CREEK PARK, SHAKOPEE, MN", DATED MAY 13, 2019 (TERRACON PROJECT NO. MP195013).

a. VERTICAL DATUM - NORTH AMERICAN VERTICAL DATUM (NAVD88).

1. SEE SPECIAL PROVISION 2461 FOR ADDITIONAL REQUIREMENTS.
2. CONCRETE: MINIMUM 28-DAY SPECIFIED COMPRESSIVE STRENGTH: 4,500 PSI
3. REINFORCING BARS: ASTM A615,A706, OR A970 GR 60.

1. SEE SPECIAL PROVISION 2471 FOR ADDITIONAL REQUIREMENTS.

2. WT SHAPES: ASTM A992
3. PLATES: ASTM A36
4. BOLTS: ASTM A325, ASTM A307
5. THREADED RODS: ASTM F1554 GR 36
6. ALL STEEL COMPONENTS TO BE HOT DIPPED GALVANIZED

1. SEE SPECIAL ARCHITECTURAL (SA) 2402 FOR ADDITIONAL REQUIREMENTS.

2. HORIZONTAL WALL SLATS: WESTERN CEDAR, STUD GRADE OR STRONGER
 - a. MIN FB: 550 PSI (ASTM D6112)
 - b. MIN FV: 155 PSI (ASTM D2344)
3. COLUMNS: TREATED GLU-LAM 24F-E18 DF BALANCED OR STRONGER (ANSI/AITC A190.1)
 - a. MIN FB: 2,600 PSI
 - b. MIN FV: 300 PSI
 - c. MIN FC: 805 PSI
4. JOISTS AND BEAMS: TREATED SOUTHERN PINE NO. 1 GRADE OR STRONGER
 - a. MIN FB: 1,500 PSI (ASTM D6112)
 - b. MIN FV: 175 PSI (ASTM D2344)
5. FLOOR AND ROOF BOARDS: IPE
6. ALL JOIST HANGERS TO BE ZMAX/HDG GALVANIZED. USE HDG FASTENERS MEETING AS

SUPPORTED MEMBER	END REACTION (SERVICE LEVEL, UNFACTORED)	SIMPSON JOIST HANGER (OR APPRD EQ)
2X4	210 LBS	LU24, 10d
2X8	635 LBS	LU26, 10d
(2) 2X6	705 LBS	U26-2, 10d
(2) 2X12	1,900 LBS	LUS24-2, 16d

1. SEE SPECIFICATION 2452 PILING FOR ADDITIONAL REQUIREMENTS.
2. ALL HELICAL PILES TO BE CHANCE 10/12/14 W/ 1 1/4" SQUARE SHAFT OR EQUAL.
3. MINIMUM ALLOWABLE CAPACITY OF 7,200 LBS/PILE REQUIRED.
4. 20' EMBEDMENT DEPTH ANTICIPATED. CAPACITY TO BE CONFIRMED BY INSTALLER.
5. PILES AND ASSOCIATED ACCESSORIES SUCH AS TERMINATION DEVICES TO BE DESIGNED AND PROVIDED BY SUPPLIER.

1) STATEMENT OF SPECIAL INSPECTIONS

1. SPECIAL INSPECTIONS ARE REQUIRED IN ACCORDANCE WITH THE 2006 IBC CHAPTER 17. OWNER SHALL ENGAGE THE SERVICES OF A QUALIFIED SPECIAL INSPECTOR, WHO SHALL PROVIDE ALL SERVICES NECESSARY TO MEET THE IBC SPECIAL INSPECTION REQUIREMENTS.
2. SPECIAL INSPECTIONS SHALL BE PROVIDED DURING ALL FABRICATION AND CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH THE FOLLOWING NOTES AND SCHEDULES.

1. REFER TO SECTION 1702 AND CHAPTER 2 OF THE 2006 IBC FOR DEFINITIONS OF TERMS APPLICABLE TO SPECIAL INSPECTIONS AND STRUCTURAL OBSERVATIONS.
 - a. SPECIFIC OBSERVATIONS:
HIGH STRENGTH BOLTS - AN ASTM A325 OR A490 BOLT, AN ASTM F 1852 TWIST-OFF-TYPE TENSION-CONTROL BOLT OF AN ALTERNATE-DESIGN FASTENER THAT MEETS THE REQUIREMENTS IN AISC 360 SECTION 2.8.

A. REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION

1. THE SPECIAL INSPECTIONS AND VERIFICATIONS FOR CONCRETE CONSTRUCTION SHALL BE AS REQUIRED BY IBC 2012 SECTION 1705.3 AND THE FOLLOWING TABLE.

VERIFICATION AND INSPECTION TASK		FREQUENCY OF INSPECTION		REFERENCED STANDARD	IBC REFERENCED	PROJECT APPLICABILITY
		CONTINUOUS	PERIODIC			
1.	INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS AND PLACEMENT	-	X	ACI 318: 3.5, 7.1-7.7	1910.4	N/A
2.	INSPECTION OF REINFORCING STEEL WELDING IN ACCORDANCE WITH TABLE 1705.2.2, ITEM 2B	-	-	AWS D1.4 ACI 318: 3.5.2	-	N/A
3.	INSPECTION OF ANCHORS CAST IN CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED OR WHERE STRENGTH DESIGN IS USED	-	X	ACI 318: 8.1.3, 21.2.8	1908.5, 1909.1	X
4.	INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS (b)	-	X	ACI 318: 3.8.6, 8.1.3, 21.2.8	1909.1	X
5.	VERIFYING USE OF REQUIRED DESIGN MIX	-	X	ACI 318: Ch. 4, 5.2, 5.4	1904.2, 1910.2, 1910.3	X
6.	AT THE TIME FRESH CONCRETE IS SAMPLED TO 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: 5.6, 5.8	1910.10	X
7.	INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	X	-	ACI 318: 5.9, 5.10	1910.6, 1910.7, 1910.8	X
8.	INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES	-	X	ACI 318: 3.8.6, 5.11, 5.13	1910.9	X

A. REQUIRED VERIFICATION AND DRIVEN DEEP FOUNDATIONS

1. SPECIAL INSPECTIONS FOR EXISTING SITE SOIL CONDITIONS, FILL PLACEMENT AND LOAD-BEARING REQUIREMENTS SHALL BE AS REQUIRED BY IBC 2012 SECTION 1706.7 AND THE FOLLOWING TABLE.

TYPE		CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION
1.	VERIFY ELEMENT MATERIALS, SIZES AND LENGTHS COMPLY WITH THE REQUIREMENTS.	X	—
2.	DETERMINE CAOACITIES OF TEST ELEMENTS AND CONDUCT ADDITIONAL LOAD TESTS, AS REQUIRED.	X	—
3.	INSPECT DRIVING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH ELEMENT.	X	—
4.	VERIFY PLACEMENT LOCATIONS AND PLUMBNESS, CONFIRM TYPE AND SIZE OF HAMMER, RECORD NUMBER OF BLOWS PER FOOT OF PENETRATION, DETERMINE REQUIRED PENETRATIONS TO ACHIEVE DESIGN CAPACITY, RECORD TIP AND BUTT ELEVATIONS AND DOCUMENT ANY DAMAGE TO FOUNDATION ELEMENT.	—	—
5.	FOR STEEL ELEMENTS, PERFORM ADDITIONAL SPECIAL INSPECTIONS IN ACCORDANCE WITH SECTION 1705.2.	—	—
6.	FOR CONCRETE ELEMENTS AND CONCRETE-FILLED ELEMENTS, PERFORM TESTS AND ADDITIONAL SPECIAL INSPECTIONS IN ACCORDANCE WITH SECTION 1705.3.	—	—
7.	FOR SPECIALTY ELEMENTS, PERFORM ADDITIONAL INSPECTIONS AS DETERMINED BY THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE.	—	—

INFORMATION, OR MY DIRECT INTEREST, IN ANY OF THE	CLIENT	10/04/19		03/17/20		04/29/20	9/4/20					
RELEASED TO/FOR	A	B	C	D								
	DATE RELEASED											
 Corporate Headquarters: Minneapolis, Minnesota Ph: 1-800-632-2277												
Project Office: BARR ENGINEERING COMPANY 4300 MARKETPOINTE DRIVE SUITE 200 MINNEAPOLIS, MN 55435 Ph: 1-800-632-2277 Fax: (952) 832-2601 www.barr.com												
	Scale											
	Date	()										
	Drawn											
	Checked											
	Designed											
	Approved											

A. GENERAL

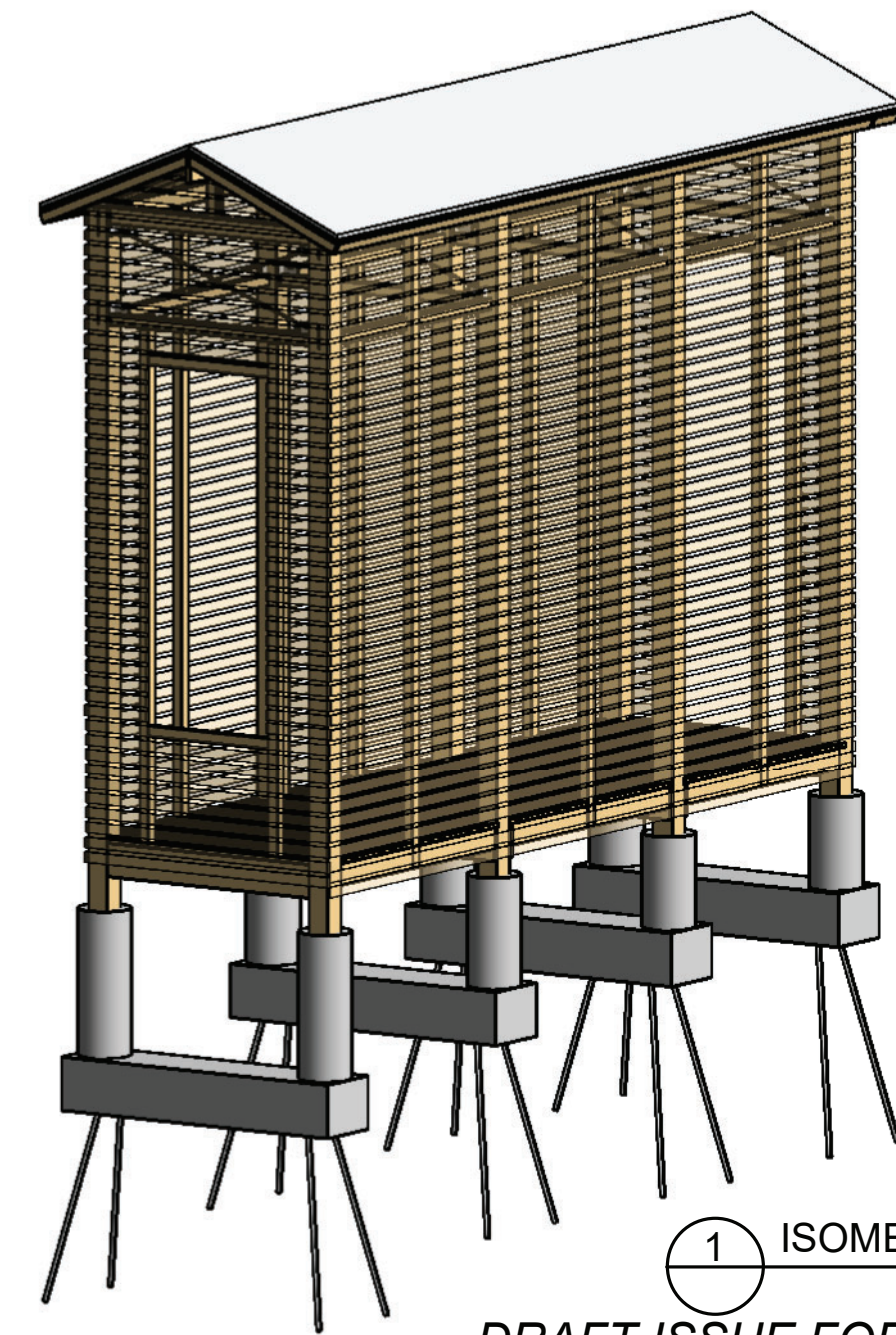
1. SPECIAL INSPECTION FOR STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE QUALITY ASSURANCE AND QUALITY CONTROL INSPECTION REQUIREMENTS OF AISC 360-10 (IBC 2012, SECTION 1705.2.1).
2. CONTRACTOR IS RESPONSIBLE FOR QUALITY CONTROL PROCEDURES IN ACCORDANCE WITH THE REQUIREMENTS OF AISC 360-10 CHAPTER N.
3. THE INSPECTION TABLES AND NOTES PROVIDED ON THIS SHEET ARE INTENDED ONLY TO ASSIST THE CONSTRUCTION PERSONNEL IN MEETING QUALITY CONTROL AND QUALITY ASSURANCE REQUIREMENTS. THE REQUIREMENTS OF AISC 360-10 CHAPTER N ARE MINIMUM REQUIREMENTS, AND THE QUALITY CONTROL INSPECTOR(S) AND QUALITY ASSURANCE INSPECTOR(S) ARE RESPONSIBLE FOR MEETING ALL REQUIREMENTS OF AISC 360-10 CHAPTER N, WHETHER INDICATED ON THIS SHEET OR NOT. IF ANY INSPECTIONS ARE REQUIRED IN ADDITION TO THE AISC 360-10 CHAPTER N INSPECTIONS, SUCH INSPECTIONS ARE INDICATED ON THIS SHEET. IF A DISCREPANCY EXISTS BETWEEN THE REQUIREMENTS OF AISC 360-10 CHAPTER N AND THE REQUIREMENTS OF THIS DRAWING, THE MORE STRINGENT REQUIREMENT SHALL APPLY, UNLESS OTHERWISE APPROVED BY THE STRUCTURAL ENGINEER OF RECORD.

B. REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION

C. TABLE 1704.3 FROM IBC 2006

VERIFICATION AND INSPECTION TASK			CONTINUOUS	PERIODIC	REFERENCED STANDARD	IBC REFERENCED	PROJECT APPLICABILITY
1.	MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS						
	a.	IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS	—	X	APPLICABLE ASTM MATERIAL SPECIFICATIONS AISC 360, SECTION A3.3	—	X
	b.	MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED	—	X	—	—	X
2.	INSPECTION OF HIGH-STRENGTH BOLTING						
	a.	BEARING TYPE CONNECTIONS	—	X	AISC 360 SECTION M2.5	1704.3.3	X
3.	MATERIAL VERIFICATION OF STRUCTURAL STEEL						
	a.	IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS	—	X	ASTM A6 OR ASTM A568	1708.4	X
	b.	MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED	—	X	ASTM A6 OR ASTM A568	1708.4	X
4.	MATERIAL VERIFICATION OF WELD FILLER MATERIALS						
	a.	IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS	—	—	AISC 360, SECTION A3.5	—	X
	b.	MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED	—	—	—	—	X
5.	INSPECTION OF WELDING						
	a.	STRUCTURAL STEEL					
		1) SINGLE-PASS FILLET WELDS <=5/16"	—	X	AWS D1.1	1704.3.1	X
6.	INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS						
	a.	DETAILS SUCH AS BRACING AND STIFFENING	—	X	—	1704.3.2	NA
	b.	MEMBER LOCATION	—	X	—	1704.3.2	NA
	c.	APPLICATION OF JOINT DETAILS AT EACH CONNECTION	—	X	—	1704.3.2	X

APPRD	APPROVED
CE	CENTERLINE
CTRD	CENTERED
EA	EACH
EW	EACH WAY
EL	ELEVATION
MIN	MINIMUM
MAX	MAXIMUM
OC	ON CENTER
PL	PLATE
SP	SOUTHERN PINE
STL	STEEL
TO	TOP OF
TOC	TOP OF CONCRETE
T&B	TOP & BOTTOM
TYP	TYPICAL



NOTE:
ISOMETRIC VIEW IS PRESENTED FOR INFORMATION ONLY AND SHOULD NOT, UNDER ANY CIRCUMSTANCES, BE USED FOR CONSTRUCTION, QUANTITY COMPUTATIONS, OR ANY OTHER DETAILED CONSTRUCTION RELATED TASK. ISOMETRIC VIEW IS NOT TO SCALE AND SHOULD NOT BE SCALED. NOT ALL ELEMENTS ARE SHOWN.

① ISOMETRIC: CRIB FRAMING

*DRAFT ISSUE FOR BID
NOT FOR CONSTRUCTION*

CORN CRIB OVERLOOK
NOTES AND ISOMETRIC

[illegible]