## IOWA DEPARTMENT OF NATURAL RESOURCES

# CONSTRUCTION DRAWINGS FOR ARCHERY BUILDING AND COURTYARD IMPROVEMENTS AT

50	HEM DESCRIPTION	QUANTITY
1	MOBILIZATION	1 LS
2	DEMOLITION	1 LS
3	CONSTRUCTION STAKING	1 LS
4	CLASS 10 EXCAVATION, COMMON EXCAVATION	150 CY
5	CLASS 10 EXCAVATION, WASTE	50 CY
6	SUBGRADE PREPARATION	328 SY
7	BIORETENTION CELL SOIL MEDIA, 18" LAYER	25 CY
8	CHOKER AGGREGATE, 3" LAYER	8 TONS
9	AGGREGATE SUBBASE, 12" LAYER	29 TONS
10	6" SUBDRAIN	261 LF
11	8" SUBDRAIN	34 LF
12	STORM SEWER, TRENCHED 8" HDPE	22 LF
13	SUBDRAIN CLEANOUT, TYPE A-1, 6"	4 EA
14	SUBDRAIN CLEANOUT, TYPE A-2, 8"	1 EA
15	SW-512 CIRCULAR AREA INTAKE, 18" W/ SW-604 TYPE 3A CASTING	1 EA
16	SW-512 CIRCULAR AREA INTAKE, 24" WITH SOLID CASTING	1 EA
17	8" TRENCH DRAIN	17 LF
18	TRENCH DRAIN PCC CHANNEL	3 CY
19	CORTEN STEEL CHANNEL, 12"	1 LS
20	6" PCC WITH DECORATIVE FINISHES, 6" THICKNESS	3 SY
21	PERMEABLE PAVERS	280 SY
22	BEDDING/JOINT FILLER AGGREGATE, 2" LAYER	29 TONS
23	FILTER AGGREGATE SUBBASE, 4" LAYER	59 TONS
24	STORAGE AGGREGATE SUBBASE, 8" LAYER	109 TONS
25	PCC EDGE, PERMEABLE PAVER EDGE RESTRAINT	504 LF
26	SOIL SEPARATION FABRIC	315 SY
27	METAL LANDSCAPE EDGING	101 LF
28	PERMANENT SEEDING, FERTILIZING, AND MULCHING	3,191 SF
29	NATIVE PLUGS	332 EA
30	SHRUBS, 3 GAL CONTINUOUS	36 EA
31	PERENNIALS, 1 GAL CONTINUOUS	226 EA
32	TREES, 2" CALIPER B&B	4 EA
33	DOUBLE SHREDDED HARDWOOD MULCH, 3" LAYER	35 CY
34	LIMESTONE BENCHES	10 EACH
35	LIMESTONE CUBES	10 EACH
36	SALVAGED BOULDERS	15 EA
37	2" RIVER ROCK	3 CY
38	4"-5" RIVER ROCK	2 CY
39	FLAGSTONE STEPPERS	2 TONS
40	BOARDWALK, 25'X6'	1 LS
41	FILTER SOCK AND INLET PROJECTION, 12"	317 LF
42	TREE PROTECTION FENCE	200 LF
43	ELECTRICAL - COURTYARD SITE, ARCHERY BUILDING, AND STAGE	1 LS
44	WOODFORD S-3 YARD HYDRANT AND ALL ASSOCIATED ITEMS	1 EA
45	STAGE BUILDING AND ALL ASSOCIATED ITEMS	1 LS
46	ARCHERY/STORAGE BUILDING AND ALL ASSOCIATED ITEMS	1 LS
47	SITE RESTORATION	1 LS
	ALTERNATE #1	
48	LEAD ENCAPSULATION - DNR PAVILION UPSTAIRS	1 LS

# DNR FAIRGROUNDS POLK COUNTY, IOWA

PROJECT # 24-05-77-01 PLANS PREPARED BY LAND AND WATERS BUREAU CONSERVATION AND RECREATION DIVISION

### PROJECT NARRATIVE

The contractor shall be responsible for providing and installing all items within this narrative, the drawings, and project manual unless specifically noted. This narrative is not meant to be a comprehensive account of all items to be covered by the contract, review all documents. The contractor is responsible for field verifying all dimensions and establishing all quantities that are dictated as "lump sum".

This project, DNR Fairgrounds - Archery Building and Courtyard Improvements, shall commence after the contract is executed and shall be completed no later than July 15, 2024.

The contractor shall clear the ground of all vegetation and grade for new Archery Building. The contractor shall coordinate with MidAmerican and the State Fair to reroute existing electrical line (State Fair) and gas line (MidAm) around the proposed building. Both State Fair and MidAm shall perform the reroute of their own respective utilities but the Contractor shall perform any probing, exploratory, or otherwise assisting to complete this work.

The Contractor shall route electric to the new building, stage, and site as shown on the plans. Contractor shall build a new unconditioned Archery/Storage building with large, decorative truss and stone column bases, as shown on the plans.

The Contractor shall also build a triangular deck platform (Stage) with a large decorative truss and roof structure, as shown on the plans. The Contractor shall run electric to the Stage as well as around the Courtyard as detailed in the electrical designs. The Contractor shall then build the Courtyard site improvements as shown on the plans.

In addition to the work previously stated, as an alternate, the Contractor shall spray paint and back-roll all walls in the DNR pavilion up-stairs level. The DNR is aware of paint in the upstairs level containing paint and this portion of the work is to encapsulated it entirely with two (2) coats of Sherwin Williams Exterior Acrylic Latex Duration paint or approved equal. Also part of the alternate, the Contractor shall also remove a portion of the existing drop ceiling in the upper level of the DNR pavilion and install a new 30 x 60 heavy-duty steel attic stair as specified on sheet A-500. Final location to be determined by DNR Inspector.



I hereby certify that this architectural document was pr





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pared by m a duy we of the         A-400         STAGE PLAN AND ELEVATION           3         A-401         STAGE SECTION AND DETAILS           A-402         TRUSS AND BRACKET DETAILS           A-500         ALTERNATE #1: DNR PAVILION UPSTAIRS           TE         A-600           ELECTRICAL         E           E-000         ELECTRICAL NOTES AND SYMBOLS           E-001         ELECTRICAL SITE REFERENCE PLAN           E-100         ENLARGED ELECTRICAL PLANS           E-200         ONE-LINE AND DETAILS           M a duy m a duy m a duy m a duy m a duy m a duy         E-200           Me State of Iowa.         E           2.3		A-301	BUILDING DETAILS
M a duty we of the we of the state of lowa.       A-401       STAGE SECTION AND DETAILS         3       A-402       TRUSS AND BRACKET DETAILS         A-500       ALTERNATE #1: DNR PAVILION UPSTAIRS         A-600       FINISH, DOOR & WINDOW SCHEDULES         ELECTRICAL       E-000         ELECTRICAL NOTES AND SYMBOLS         E-001       ELECTRICAL SITE REFERENCE PLAN         E-100       ENLARGED ELECTRICAL PLANS         E-200       ONE-LINE AND DETAILS         M a duty m a	pared by	A-400	STAGE PLAN AND ELEVATION
A-402         TRUSS AND BRACKET DETAILS           A-500         ALTERNATE #1: DNR PAVILION UPSTAIRS           A-600         FINISH, DOOR & WINDOW SCHEDULES           ELECTRICAL         E           E-000         ELECTRICAL NOTES AND SYMBOLS           E-001         ELECTRICAL SITE REFERENCE PLAN           E-100         ENLARGED ELECTRICAL PLANS           E-200         ONE-LINE AND DETAILS	aws of the	A-401	STAGE SECTION AND DETAILS
3       A-500       ALTERNATE #1: DNR PAVILION UPSTAIRS         TE       A-600       FINISH, DOOR & WINDOW SCHEDULES         ELECTRICAL       E         E-000       ELECTRICAL NOTES AND SYMBOLS         E-001       ELECTRICAL SITE REFERENCE PLAN         E-100       ENLARGED ELECTRICAL PLANS         E-200       ONE-LINE AND DETAILS         Pared by m a duly the State of Iowa.		A-402	TRUSS AND BRACKET DETAILS
TE       A-600       FINISH, DOOR & WINDOW SCHEDULES         ELECTRICAL       E-000       ELECTRICAL NOTES AND SYMBOLS         E-001       ELECTRICAL SITE REFERENCE PLAN         E-100       ENLARGED ELECTRICAL PLANS         E-200       ONE-LINE AND DETAILS         m a duly       Image: Comparison of the state of lowa.         A_3       Image: Comparison of the state of lowa.         Image: Comparison of the state of lowa.       Image: Comparison of the state of lowa.         Image: Comparison of the state of lowa.       Image: Comparison of the state of lowa.         Image: Comparison of the state of lowa.       Image: Comparison of the state of lowa.         Image: Comparison of the state of lowa.       Image: Comparison of the state of lowa.         Image: Comparison of the state of lowa.       Image: Comparison of the state of lowa.         Image: Comparison of the state of lowa.       Image: Comparison of the state of lowa.         Image: Comparison of the state of lowa.       Image: Comparison of the state of lowa.         Image: Comparison of the state of lowa.       Image: Comparison of the state of lowa.         Image: Comparison of the state of lowa.       Image: Comparison of the state of lowa.         Image: Comparison of the state of lowa.       Image: Comparison of the state of lowa.         Image: Comparison of the state of lowa.       Image: Comparison of	3	A-500	ALTERNATE #1: DNR PAVILION UPSTAIRS
ELECTRICAL           E-000         ELECTRICAL NOTES AND SYMBOLS           E-001         ELECTRICAL SITE REFERENCE PLAN           E-100         ENLARGED ELECTRICAL PLANS           E-200         ONE-LINE AND DETAILS           m a duly	TE	A-600	FINISH, DOOR & WINDOW SCHEDULES
E-000         ELECTRICAL NOTES AND SYMBOLS           E-001         ELECTRICAL SITE REFERENCE PLAN           E-100         ENLARGED ELECTRICAL PLANS           E-200         ONE-LINE AND DETAILS           m a duly		ELECTRICAL	
E-001         ELECTRICAL SITE REFERENCE PLAN           E-100         ENLARGED ELECTRICAL PLANS           E-200         ONE-LINE AND DETAILS           m a duly		E-000	ELECTRICAL NOTES AND SYMBOLS
E-100         ENLARGED ELECTRICAL PLANS           E-200         ONE-LINE AND DETAILS           in a duly		E-001	ELECTRICAL SITE REFERENCE PLAN
E-200         ONE-LINE AND DETAILS           m a duly		E-100	ENLARGED ELECTRICAL PLANS
pared by m a duly the State of Iowa:		E-200	ONE-LINE AND DETAILS
	pared by		
	the State of Iowa.		
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CONSULTANT:				
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IOWA DEPARTMENT OF	NATURAL RESOURCES	ENGINEERING SERVICES - WALLACE BUILDING 502 E. 9TH ST., DES MOINES, IA 50319-0034	P: 515.725.8200	F: 515.725.8202
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	- <u>[</u>	<b>_</b> }	J	
R SHEET	URTYARD IMPROVEMENTS FOR:	GROUNDS		DES MOINES, IA 50317
COVER SHEET	ARCHERY BUILDING AND COURTYARD IMPROVEMENTS FOR:	DNR FAIRGROUNDS		3000 EAST GRAND AVE.
COVER SHEET	ARCHERY BUILDING AND COURTYARD IMPROVEMENTS FOR:			3000 EAST GRAND AVE.
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	ARCHERY BUILDING AND COURTYARD IMPROVEMENTS FOR: ARCHERY BUILDING AND COURTYARD IMPROVEMENTS FOR: Date:	DNR FAIRGROUNDS		3000 EAST GRAND AVE. DES MOINES, IA 50317

	DIREC	TORY		
		DISTRICT INS	PECTOR	
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		ELECTRICAL	DESIGNER	
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	RYAN.RICHEY@DNR.IOWA.GOV	EMAIL	JLACROIX@KCLENGINEERING.COM	
NE	ER	LANDSCAPE ARCHITECT		
	LT LEON ASSOCIATES	COMPANY	LT LEON ASSOCIATES	
	500 E. LOCUST STREET, SUITE 400	ADDRESS	500 E. LOCUST STREET, SUITE 400	
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	·	FAX		
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- . IN INTERIOR SPACES THE ACTUAL DIMENSIONS MAY BE LESS IMPORTANT THAN IF AT TWO ELEMENTS IN THE BUILDING WERE TO BE EQUAL. IN THESE CASES, THE WORD "EQUAL OR EQ" IS USED IN LIEU OF THE ACTUAL DIMENSIONS.
- 2. WHEN A ROOM CENTERLINE IS INDICATED ONLY ONE SIDE OF THE ROOMS ELEMENTS MAY BE DIMENSIONED.
- 3. COLUMN IDENTIFICATION: DETAILS WILL GOVERN ALL DIMENSIONS AND NO DIMENSIONS WILL BE SHOWN ON SMALL SCALE PLANS.
- 4. PARTITION CENTERED ON COLUMN OR GRID LINES WILL NOT BE DIMENSIONED ON SMALL SCALE PLANS.
- 5. PARTITION WITH A FINISHED FACE FLUSH WITH FINISH FACE OF COLUMN WILL NOT be DIMENSIONED ON SMALL SCALE PLANS.
- 6. PARTITION FINISH FACE ON COLUMN OR GRID LINE WILL NOT BE DIMENSIONED ON SMALL SCALE PLANS .
- 7. WHEN ONE JAMB OCCURS AT A COLUMN OR GRID LINE NO DIMENSIONS WILL BE SHOWN ON THE SMALL SCALE PLANS. THE OPENING WIDTH WILL BE GOVERNED BY CRITERIA OR SCHEDULES.
- B. WHEN NEITHER JAMB OCCURS AT A COLUMN OR GRID LINE ONE JAMB WILL BE DIMENSIONED.
- 9. DOOR LOCATIONS ARE TO BE LOCATED BY ONE OF FOLLOWING:
- a. ONE JAMB FACE LOCATED BY A PARTITION AT RIGHT ANGLE. 4"TYPICAL UNLESS INDICATED ON PLAN.
- b. OR AS DIMENSIONED ON PLAN.

DIMENSION NOTES

10. PARTITIONS ARE DIMENSIONED TO FACE OF CMU OR FACE OF STUD UNLESS OTHERWISE NOTED.

11. DIMENSIONS ARE INDICATED IN THE DOCUMENTS. THE DRAWINGS SHALL NOT BE SCALED FOR DIMENSIONS.

	MATERIA	AL LEGEND	
	CONCRETE MASONRY UNIT	GYPSUM / STUCCO	MASONRY
COMPACTED EARTH	METAL STUD	GROUT	CONCRETE
GRASS	PARTICLE BOARD	TURF	CRUSHED STO
GRAVEL	PLYWOOD	FOAM INSULATION	CAST STONE/
CLAY	BATT INSULATION	RIGID INSULATION	STONE
FENCE	ACOUSTICAL CEILING TILE	ALUMINUM	GLASS
TURF BLOCK	PLASTIC	STEEL	WOOD BLOCKIN
PAVERS	САRРЕТ	FINISHED WOOD	
	SYMBOL	. LEGEND	
	NORTH ARROW	(000) (000)	ROOM/SPACE IDENTIFICATION
$(00) \frac{\text{TITLE}}{\text{SCALE: 0 = 0'-0"}}$	DRAWING / DETAIL IDENTIFICATION		DOOR TAG
	SECTION REFERENCE		WINDOW TAG
<u>A-000</u>			WALL TYPE REFERENCE KEYNOTE NUMBER -NEW
	DETAIL REFERENCE	00	C.S.I. DIVISION/KEY KEYNOTE – DEMOLITION
00 A-000	EXTERIOR ELEVATION	(00)	KEYNOTE – NEW/RENOVATION
00/A-100	INTERIOR ELEVATION	00	KEYNOTE – FINISH/ACCESSORY
ELEVATION : 0'-0"	ELEVATION TARGET	Æ	PROPERTY LINE REFERENCE
		¢.	CENTER LINE REFERENCE
	COLUMN GRID		LEVEL CHANGE REFERENCE
			DETAIL CUT LINE
	MATCH LINES		REVISION NUMBER AND CLOUD





02 POLK COUNTY – IOWA STATE FAIRGROUNDS SCALE: NTS



ITEM NUMBER	DESCRIPTION MOBILIZATION (LS)
	THIS ITEM INCLUDES PROVIDING AND REMOVING CONSTRUCTION EQUIPMENT TO THE SITE.
2	DEMOLITION (LS)
	THIS BID ITEM SHALL INCLUDE ALL DEMOLITION AND REMOVAL OF PAVEMENT, EXISTING STORM SEWER, EXISTING WATER FEATURE, V RUBBISH, AND MISCELLANEOUS DEBRIS ENCOUNTERED WITHIN THE CONSTRUCTION LIMITS AND AS NOTED IN THE CONTRACT DOCL
	DETAILS. ITEM INCLUDES FULL-DEPTH SAW CUTTING NECESSARY TO CREATE A CLEAN EDGE BETWEEN EXISTING AND PROPOSED PA
	PLAYHOUSE STRUCTURE AS SHOWN.
3	CONSTRUCTION STAKING (LS)
	THIS BID ITEM SHALL INCLUDE ALL SURVEY WORK NECESSARY FOR CONSTRUCTION OF THIS PROJECT AS INTENDED BY THE CONTRA WILL BE RESPONSIBLE FOR MAINTAINING ALL HORIZONTAL AND VERTICAL CONTROL WITHIN THE PROJECT LIMITS FOLLOWING COMF
	SHALL STAKE OUT CONSTRUCTION LIMITS PRIOR TO CONSTRUCTION.
4	
	QUANTITY INCLUDES ALL EXCAVATION, COMPACTION, AND SHAPING. OVERHAUL WILL NOT BE MEASURED OR PAID FOR, BUT SHALL E SUITABLE FILL MATERIAL AND TOPSOIL AS REQUIRED. ALL FILL MATERIAL SHALL CONSIST OF APPROVED MATERIALS THAT ARE FREE
	NOT BE LESS THAN 0% OR GREATER THAN 4% OF OPTIMUM MOISTURE CONTENT VALUE AS DETERMINED BY THE STANDARD PROCTO COMPACTION. FILL SHALL COMPLY WITH SPECIFICATION SECTION 31 23 16.
	CLASS 10 EXCAVATION WASTE (CV)
5	QUANTITY INCLUDES ALL EXCAVATION AND REMOVAL OF EXCESS EXCAVATED MATERIAL. WASTE MATERIAL SHALL BECOME PROPER
6	SUBGRADE PREPARATION (SY)
	CONTRACTOR SHALL COMPACT THE SUBGRADE FOR ALL PAVEMENT IN ACCORDANCE TO SPECIFICATIONS AND DETAILS.
7	BIORETENTION CELL SOIL MEDIA, 18-INCH LAYER (CY)
	QUANTITY INCLUDES PROVIDING SUITABLE SOIL MEDIA AND SHAPING. SOIL MEDIA SHALL BE A BLEND OF ORGANIC MATERIALS, SANL ORGANIC MATERIAL, 75-90% SAND AND 0-25% SOIL BY VOLUME AS SPECIFIED IN THE CONTRACT DOCUMENTS.
8	CHOKER AGGREGATE, 3-INCH LAYER (TON)
	ITEM INCLUDES PROVIDING AND PLACING CHOKER AGGREGATE FOR THE BIORETENTION CELL AS SPECIFIED IN THE CONTRACT DOC SECTION 4125, GRADATION 21
9	AGGREGATE SUBBASE, 12-INCH LAYER (TON) ITEM INCLUDES PROVIDING AND PLACING SUBBASE FOR THE BIORETENTION CELL AS SPECIFIED IN THE CONTRACT DOCUMENTS. SI
	CONSIDERED FULL COMPENSATION FOR FURNISHING ALL TOOLS, EQUIPMENT, LABOR, AND MATERIALS NECESSARY FOR SUBBASE A SUBBASE SHALL COMPLY WITH SUDAS AND IOWA DOT SPECIFICATIONS SECTION 4115, GRADATION 3.
10	
10	ITEM INCLUDES ALL TRENCH EXCAVATION, FURNISHING AND PLACING BEDDING AND BACKFILL MATERIAL, SUBDRAIN, CONNECTORS,
	CONSIDERED FULL COMPENSATION FOR FURNISHING ALL TOOLS, EQUIPMENT, LABOR, MATERIALS, TRENCH SHORING, AND DEWATER SUBDRAIN AS SPECIFIED IN THE CONTRACT DOCUMENTS. SUBDRAIN CONNECTIONS TO INTAKES AND SUBDRAIN CLEANOUTS ARE IN
	SUDAS DETAIL 4040.233 AND 4040.232 RESPECTIVELY.
11	8" SUBDRAIN (LF)
	ITEM INCLUDES ALL TRENCH EXCAVATION, FURNISHING AND PLACING BEDDING AND BACKFILL MATERIAL, SUBDRAIN, CONNECTORS, SHALL BE CONSIDERED FULL COMPENSATION FOR FURNISHING ALL TOOLS, EQUIPMENT, LABOR, MATERIALS, TRENCH SHORING, AND
	BACKFILL OF SUBDRAIN AS SPECIFIED IN THE CONTRACT DOCUMENTS. SUBDRAIN CONNECTIONS TO INTAKES AND SUBDRAIN CLEAN COMPLETED PER SUDAS DETAIL 4040.233 AND 4040.232 RESPECTIVELY.
10	STORM SEWER TRENCHED 8" HDPE (LE)
12	ITEM INCLUDES ALL GRANULAR BEDDING AND BACKFILL REQUIRED IN THE CONTRACT DOCUMENTS. STORM SEWER PIPE WILL BE ME
	ALONG PIPE CENTERLINE. THE CONTRACTOR WILL BE PAID THE CONTRACT UNIT PRICE PER LINEAR FOOT OF STORM SEWER PIPE INS FURNISHING ALL TOOLS, EQUIPMENT, LABOR, MATERIALS, TRENCH SHORING, AND DEWATERING NECESARY FOR THE INSTALLATION,
	CONTRACT DOCUMENTS. STORM SEWER SHALL COMPLY WITH SUDAS SPECIFICATION SECTION 4020.
13	SUBDRAIN CLEANOUT, TYPE A-1, 6" (EA)
	EQUIPMENT, LABOR, MATERIALS, TRENCH SHORING, AND DEWATERING NECESSARY FOR THE INSTALLATION, AND BACKFILL OF TYPE
	DOCUMENTS, COMPLY WITH FIGURE 4040.232.
14	SUBDRAIN CLEANOUT, TYPE A-2, 8" (EA) ITEM INCLUDES ALL GRANULAR BEDDING AND BACKFILL MATERIAL REQUIRED IN THE CONTRACT DOCUMENTS. THIS SHALL BE CONS
	EQUIPMENT, LABOR, MATERIALS, TRENCH SHORING, AND DEWATERING NECESSARY FOR THE INSTALLATION, AND BACKFILL OF TYPE
15	SW-512 CIRCULAR AREA INTAKE, 18" W/ SW-604 TYPE 3A CASTING (EA) ITEM INCLUDES ALL GRANULAR BEDDING AND BACKFILL MATERIAL REQUIRED IN THE CONTRACT DOCUMENTS. THIS SHALL BE CONS
	EQUIPMENT, LABOR, MATERIALS, TRENCH SHORING AND DEWATERING NECESSARY FOR THE INSTALLATION AND BACKFILL OF THE CI DOCUMENTS.
10	SW 512 CIPCUL AD ADEA INTAKE 24" WITH SOLID CASTING (EA)
16	ITEM INCLUDES ALL GRANULAR BEDDING AND BACKFILL MATERIAL REQUIRED IN THE CONTRACT DOCUMENTS. THIS SHALL BE CONS
	EQUIPMENT, LABOR, MATERIALS, TRENCH SHORING AND DEWATERING NECESSARY FOR THE INSTALLATION AND BACKFILL OF THE CI
17	8" TRENCH DRAIN (LF) THIS SHALL BE CONSIDERED FULL COMPENSATION FOR EURNISHING ALL TOOLS, EQUIPMENT, LABOR, MATERIALS, AND DEWATERING
	SPECIFIED AND PER MANUFACTURER SPECIFICATIONS. USE K200 KLASICKDRAIN 'DRAINLOK' LOAD CLASS C WITH "WAVE" PATTERN GI
18	TRENCH DRAIN PCC CHANNEL (CY)
	ALL LABOR AND MATERIALS REQUIRED TO CONSTRUCT THE PCC CHANNEL FOR THE 8" TRENCH DRAIN SHALL BE CONSIDERED INCIDE COMPENSATION FOR FURNISHING ALL TOOLS, EQUIPMENT, LABOR, AND MATERIALS NECESSARY FOR CHANNEL CONSTRUCTION AS S
	SHALL COMPLY WITH IOWA DOT CLASS 'C' MIX AND SUDAS SECTION 7010.
19	CORTEN STEEL CHANNEL, 12-INCH (LS)
	THIS SHALL BE CONSIDERED FULL COMPENSATION FOR FURNISHING ALL TOOLS, EQUIPMENT, LABOR, MATERIALS, AND DEWATERING CHANNEL AS SPECIFIED IN THE CONTRACT DOCUMENTS.
20	6" PCC WITH DECORATIVE FINISHES (SY)
	ALL LABOR AND MATERIALS REQUIRED TO CONSTRUCT THE FLATWORK SHALL BE CONSIDERED INCIDENTAL TO THIS ITEM. THIS SHALL TOOLS, FOLIDIMENT LABOR, AND MATERIALS NECESSARY FOR FLATWORK AS APPOINTED IN THE CONTRACT POOL TO THE FLATWORK AS APPOINTED IN THE CONTRACT POOL TO THE FLATWORK AS APPOINTED IN THE CONTRACT POOL TO THE FLATWORK AS APPOINTED IN THE CONTRACT POOL TO THE FLATWORK AS APPOINTED IN THE CONTRACT POOL TO THE FLATWORK AS APPOINTED IN THE CONTRACT POOL TO THE FLATWORK AS APPOINTED IN THE CONTRACT POOL TO THE FLATWORK AS APPOINTED IN THE CONTRACT POOL TO THE FLATWORK AS APPOINTED IN THE CONTRACT POOL TO THE FLATWORK AS APPOINTED IN THE CONTRACT POOL TO THE FLATWORK AS APPOINTED IN THE CONTRACT POOL TO THE FLATWORK AS APPOINTED.
	SUDAS SECTION 7010.
21	PERMEABLE PAVERS (SY)
	THIS SHALL BE CONSIDERED FULL COMPENSATION FOR FURNISHING ALL TOOLS, EQUIPMENT, LABOR, AND MATERIALS NECESSARY F

		ESTIMATE REFER
	ITEM NUMBER	DESCR BEDDING/JOINT FILLER AGGREGATE, 2-INCH LAYER (TON)
		ITEM INCLUDES PROVIDING AND PLACING BEDDING FOR THE PERMEABLE PAVERS
VEGETATION TREES SHRUBS STUMPS LANDSCAPE BOCKS		CONSIDERED FULL COMPENSATION FOR FURNISHING ALL TOOLS, EQUIPMENT, LA BEDDING SHALL COMPLY WITH SUDAS AND IOWA DOT SPECIFICATIONS SECTION
JMENTS. REFER TO C1.0 DEMO PLAN SHEET FOR LOCATIONS AND VEMENTS.TREE PROTECTION IS INCIDENTAL TO THIS ITEM. ACTOR TO REMOVE AND SALVAGE EXISTING BRIDGE AND	23	FILTER AGGREGATE SUBBASE, 4-INCH LAYER (TON)ITEM INCLUDES PROVIDING AND PLACING SUBBASE FOR THE PERMEABLE PAVERSCONSIDERED FULL COMPENSATION FOR FURNISHING ALL TOOLS, EQUIPMENT, LASUBBASE SHALL COMPLY WITH SUDAS AND IOWA DOT SPECIFICATIONS SECTION
	24	STORAGE AGGREGATE SUBBASE, 8-INCH LAYER (TON)
PLETION OF THE CONSTRUCTION ACTIVITIES. THE CONTRACTOR		CONSIDERED FULL COMPENSATION FOR FURNISHING ALL TOOLS, EQUIPMENT, LA SUBBASE SHALL COMPLY WITH SUDAS AND IOWA DOT SPECIFICATIONS SECTION
BE CONSIDERED INCIDENTAL. CONTRACTOR SHALL PROVIDE OF ORGANIC MATTER AND DEBRIS. MOISTURE CONTENT SHALL	25	PCC EDGE, PERMEABLE PAVER EDGE RESTRAINT (LF)         ALL LABOR AND MATERIALS REQUIRED TO CONSTRUCT THE PCC EDGE SHALL BE         TOOLS, EQUIPMENT, LABOR, AND MATERIALS NECESSARY FOR PCC EDGE AS SPE         OUD AD OF OTION 7010
	26	SOLAS SECTION 7010. SOIL SEPARATION FABRIC (SY)
TY OF THE CONTRACTOR.		ITEM INCLUDES PROVIDING AND PLACING SOIL SEPARATION FABRIC AS SPECIFIED EQUIPMENT, LABOR, AND MATERIALS NECESSARY FOR INSTALLING SOIL SEPARA DOT SECTION 4196.
	27	METAL LANDSCAPE EDGING (LF) ITEM INCLUDES PROVIDING AND PLACING METAL LANDSCAPE EDGING AS SPECIFI
AND SOIL TO PROVIDE A MIXTURE WITH 0-10% SUITABLE		EQUIPMENT, LABOR, AND MATERIALS NECESSARY FOR INSTALLING METAL LANDS
	28	PERMANENT SEEDING, FERTILIZING, AND MULCHING (TURF 'A' TYPE 1 SUDAS GRAS
UMENTS. CHOKER AGGREGATE SHALL MEET IOWA DOT		DOCUMENTS. THIS SHALL BE CONSIDERED FULL COMPENSATION FOR FURNISHIN MULCHING AS SPECIFIED IN THE CONTRACT DOCUMENTS. PERMANENT SEEDING, SPECIFIED IN CONTRACT DOCUMENTS. TOPSOIL STRIP AND RESPREAD IS INCIDEN
UBBASE WILL BE MEASURED BY ENGINEER. THIS SHALL BE AS SPECIFIED IN THE CONTRACT DOCUMENTS. GRANULAR	29	NATIVE PLUGS (EA)         ITEM INCLUDES PLANTING AND WATERING REQUIRED FOR BIORETENTION CELL AF         CONSIDERED FULL COMPENSATION FOR FURNISHING ALL TOOLS, EQUIPMENT, LA
	30	SHBUBS (EA)
	31	PERENNIALS (EA)
AND ELBOWS AND TEES FOR THE SITE. THIS SHALL BE RING NECESSARY FOR THE INSTALLATION, AND BACKFILL OF	32	TREES, 2-INCH CALIPER B&B (EA)
ICIDENTAL TO THIS BID ITEM AND SHALL BE COMPLETED PER		LOCATIONS, QUANTITIES, AND SIZES. THIS SHALL BE CONSIDERED FULL COMPEN WATERING AS SPECIFIED IN THE CONTRACT DOCUMENTS AND SUDAS SECTION 9
AND ELBOWS AND TEES FOR THE BIORETENTION CELL. THIS D DEWATERING NECESSARY FOR THE INSTALLATION, AND	33	DOUBLE SHREDDED HARDWOOD MULCH, 3-INCH LAYER (CY)         ITEM INCLUDES PROVIDING AND PLACING DOUBLE SHREDDED HARDWOOD BARK I         TOXIC SUBSTANCES, AND ANY OTHER FOREIGN MATERIAL.
NOUTS ARE INCIDENTAL TO THIS BID ITEM AND SHALL BE	34	LIMESTONE BENCHES, 18"x24"x4' (EA) ITEM INCLUDES SURFACE PREPARATION, LEVELING BASE MATERIAL, FURNISHING,
ASURED BY ENGINEER, FROM END OF PIPE TO END OF PIPE		FOR FINISHES AND INSTALLATION REQUIREMENTS.
AND BACKFILL OF STORM SEWER PIPE AS SPECIFIED IN THE	35	LIMESTONE CUBES, 18"x18"x18" (EA)         ITEM INCLUDES SURFACE PREPARATION, LEVELING BASE MATERIAL, FURNISHING,         FINISHES AND INSTALLATION REQUIREMENTS.
	36	SALVAGED BOULDERS (EA)
A-1 SUBDRAIN CLEANOUTS AS SPECIFIED IN THE CONTRACT		ITEM INCLUDES SURFACE PREPARATION, FURNISHING, PLACING, AND SECURING S SALVAGED BOULDERS SHALL MEET THE SIZE REQUIREMENTS AS SHOWN ON THE SALVAGE OF EXISTING BOULDERS FOR REUSE IS INCIDENTAL TO THIS BID ITEM.
IDERED FULL COMPENSATION FOR FURNISHING ALL TOOLS.	37	RIVER ROCK, 2" (CY
A-2 SUBDRAIN CLEANOUTS AS SPECIFIED IN THE CONTRACT		RIVER ROCK PLACEMENT AND SIZE. RIVER ROCK SAMPLE TO BE SUBMITTED TO OW
IDERED FULL COMPENSATION FOR FURNISHING ALL TOOLS,	38	RIVER ROCK, 4"-5" (CY)         ITEM INCLUDES SURFACE PREPARATION, FURNISHING, AND PLACING, RIVER ROCK         RIVER ROCK PLACEMENT AND SIZE. RIVER ROCK SAMPLE TO BE SUBMITTED TO OW
	39	FLAGSTONE STEPPERS, 2.5"-3" THICK IOWA BUFF (TON)         ITEM INCLUDES SURFACE PREPARATION, FURNISHING, AND PLACING FLAGSTONE
IDERED FULL COMPENSATION FOR FURNISHING ALL TOOLS, RCULAR AREA INTAKE AS SPECIFIED IN THE CONTRACT DOCUMENTS.	40	BOARDWALK, 25'x6' (LS) THIS SHALL BE CONSIDERED FULL COMPENSATION FOR FURNISHING ALL TOOLS, APPROXIMATELY 25'x6' BOARDWALK AS SPECIFIED IN THE CONTRACT DOCUMENTS PROVIDE ALL SHOP DRAWINGS BASED ON VERIFIED FIELD CONDITIONS FOR APPR
NECESSARY FOR INSTALLATION OF TRENCH DRAIN AS		
	41	FILTER SOCK & INLET PROTECTION, 12-INCH (LF)REFER TO C3.0 GRADING PLAN SHEET FOR LOCATIONS AND DETAILS. ITEM INCLUPROTECTION IN LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENG
SPECIFIED IN THE CONTRACT DOCUMENTS. PCC CHANNEL	42	TREE PROTECTION FENCE (LF)         THIS SHALL BE CONSIDERED FULL COMPENSATION FOR FURNISHING ALL TOOLS,         SPECIFIED IN THE CONTRACT DOCUMENTS AND AS SHOWN ON THE PLANS
NECESSARY FOR INSTALLATION OF THE CORTEN STEEL	L	
LL BE CONSIDERED FULL COMPENSATION FOR FURNISHING ALL WORK (6") SHALL COMPLY WITH IOWA DOT CLASS 'C' MIX AND		
FOR PERMEABLE PAVER INSTALLATION AS SPECIFIED IN THE		

### RENCE INFORMATION

RIPTION

AS AS SPECIFIED IN THE CONTRACT DOCUMENTS. BEDDING WILL BE MEASURED BY ENGINEER. THIS SHALL BE ABOR, AND MATERIALS NECESSARY FOR BEDDING AS SPECIFIED IN THE CONTRACT DOCUMENTS. GRANULAR 14125, GRADATION 21.

IS AS SPECIFIED IN THE CONTRACT DOCUMENTS. SUBBASE WILL BE MEASURED BY ENGINEER. THIS SHALL BE ABOR, AND MATERIALS NECESSARY FOR SUBBASE AS SPECIFIED IN THE CONTRACT DOCUMENTS. GRANULAR I 4115, GRADATION 3.

RS AS SPECIFIED IN THE CONTRACT DOCUMENTS. SUBBASE WILL BE MEASURED BY ENGINEER. THIS SHALL BE ABOR, AND MATERIALS NECESSARY FOR SUBBASE AS SPECIFIED IN THE CONTRACT DOCUMENTS. GRANULAR N 4122, GRADATION 13A, CLASS 2 DURABILITY.

E CONSIDERED INCIDENTAL TO THIS ITEM. THIS SHALL BE CONSIDERED FULL COMPENSATION FOR FURNISHING ALL ECIFIED IN THE CONTRACT DOCUMENTS. PCC EDGE (8"x12") SHALL COMPLY WITH IOWA DOT CLASS 'C' MIX AND

ED IN THE CONTRACT DOCUMENTS. THIS SHALL BE CONSIDERED FULL COMPENSATION FOR FURNISHING ALL TOOLS, ATION FABRIC AS SPECIFIED IN THE CONTRACT DOCUMENTS. SOIL SEPARATION FABRIC SHALL COMPLY WITH IOWA

FIED IN THE CONTRACT DOCUMENTS. THIS SHALL BE CONSIDERED FULL COMPENSATION FOR FURNISHING ALL TOOLS, DSCAPE EDGING AS SPECIFIED IN THE CONTRACT DOCUMENTS. FINISH COLOR, BLACK.

SS MIX AND TURF 'B' NO MOW FESCUE SEED MIX) (SF)

FOR ALL DISTURBED AREAS NOT INCLUDING THE BIORETENTION CELL AREAS AS SPECIFIED IN THE CONTRACT ING ALL TOOLS, EQUIPMENT, LABOR, AND MATERIALS NECESSARY FOR PERMANENT SEEDING, FERTILIZING, AND G, FERTILIZING, AND MULCHING SHALL COMPLY WITH SUDAS SECTION 9010. TYPE B NO MOW FESCUE MIXTURE AS ENTAL TO THIS BID ITEM.

AREAS AS SPECIFIED IN THE CONTRACT DOCUMENTS. REFER TO L SHEETS FOR PLANT PLUGS. THIS SHALL BE ABOR, AND MATERIALS NECESSARY FOR PLANTING AND WATERING AS SPECIFIED IN THE CONTRACT DOCUMENTS.

INNIALS, AND PLUGS AS SPECIFIED IN THE CONTRACT DOCUMENTS. REFER TO L6.0-L6.2 SHEETS FOR PLANT NSATION FOR FURNISHING ALL TOOLS, EQUIPMENT, LABOR, AND MATERIALS NECESSARY FOR PLANTING AND 9030. TOPSOIL STRIP AND RE-SPREAD IS INCIDENTAL TO THIS BID ITEM.

MULCH WITH A 4-INCH MAXIMUM LENGTH COMPLYING WITH THE FOLLOWING: FREE FROM LEAVES, TWIGS, DUST

, AND PLACING LIMESTONE BENCHES AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. SEE DETAILS

, AND PLACING LIMESTONE CUBES AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. SEE DETAILS FOR

SALVAGED BOULDERS FROM THE EXISTING SITE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. E PLANS OR AS DIRECTED BY THE ENGINEER. OWNER TO APPROVE FINAL LAYOUT AND INSTALLATION. REMOVAL AND

( IN LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. REFER TO CONTRACT DOCUMENTS FOR WNER FOR APPROVAL PRIOR TO INSTALLATION.

K IN LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. REFER TO CONTRACT DOCUMENTS FOR WNER FOR APPROVAL PRIOR TO INSTALLATION.

E AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

S, EQUIPMENT, LABOR, FOOTINGS, HEADWALLS AND RELATED MATERIALS NECESSARY FOR INSTALLING THE TS AND AS SHOWN ON THE PLANS. MANUFACTURER TO PROVIDE DETAILS AND SPECIFICATIONS. CONTRACTOR TO ROVAL PRIOR TO ORDERING OR PURCHASING FOR INSTALLATION.

JDES SURFACE PREPARATION, FURNISHING, PLACING, SECURING, MAINTAINING, AND REMOVING FILTER SOCK & INLET GINEER. FILTER SOCK & INLET PROTECTION SHALL MEET THE REQUIREMENTS OF SUDAS, 2023 SECTION 9040, 2.04.

, EQUIPMENT, LABOR, AND MATERIALS NECESSARY FOR INSTALLING AND REMOVING THE TREE PROTECTION FENCE

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NO. REVISION BY DATE			DESIGNED: AET PROJECT NO.: 038.028	DRAFTED: AET FILE NUMBER: 038.028	CHECKED: LTL SHEET NO.: C0.1	SCALE: NA DATE: NOVEMBER 7 2023
	ARCHERY RUILDING AND COURTYARD IMPROVEMENTS FOR	DNR FAIRGROUNDS	3000 F GRAND AVE DES MOINES 10WA			
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### EX. WOOD / METAL FENCE

- EX. SANITARY SEWER LINE
- EX. STORM SEWER LINE
- EX. STORM SEWER MANHOLE
- EX. SANITARY SEWER MANHOLE
- EX. ELECTRICAL BOX/TRANSFORMER

### **DEMO LEGEND**

- PROPERTY LINE
- SETBACK
- STREET CENTERLINE
- LIMIT OF CONSTRUCTION
- REMOVE PAVEMENT
- **REMOVE ITEM**

### **DEMOLITION NOTES**

2

- REMOVAL OR ABANDONMENT OF PUBLIC AND PRIVATE UTILITIES SHALL BE FULLY COORDINATED WITH APPROPRIATE UTILITY SUPPLIER AND REGULATORY AGENCIES.
- ALL CONSTRUCTION/DEMOLITION DEBRIS SHALL BE DISPOSED OF OFF SITE IN FULL COMPLIANCE WITH CURRENT ENVIRONMENTAL REGULATIONS.

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- PROTECT ADJACENT PROPERTY DURING DEMOLITION. CONTRACTOR TO UTILIZE AND MAINTAIN EXISTING CONTRACTOR PARKING.
- PROTECT EXISTING UTILITIES WHICH ARE TO REMAIN. THE LOCATIONS OF ALL UTILITIES INDICATED ON THE PLANS ARE TAKEN FROM EXISTING RECORDS. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING THE EXACT LOCATION AND ELEVATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. BOTH PUBLIC AND PRIVATE. IT SHALL BE THE DUTY OF THE CONTRACTOR TO ASCERTAIN WHETHER ANY ADDITIONAL UTILITIES OTHER THAN THOSE SHOWN ON THE PLAN MAY BE PRESENT.
- REMOVE ALL DESIGNATED STREETS, DRIVEWAYS, AND CURBS IN THEIR ENTIRETY. BACKFILL ALL EXCAVATIONS WITH COHESIVE MATERIAL COMPACTED TO 98% STANDARD PROCTOR DENSITY.
- DEMOLITION NOTES AS SHOWN ON THE PLAN ARE NOT ALL INCLUSIVE. CONTRACTOR TO ABANDON IN PLACE OR REMOVE AND DISPOSE OF ALL EXISTING SITE IMPROVEMENTS ABOVE AND BELOW GROUND TO COMPLY WITH THE GENERAL INTENT OF THIS DOCUMENT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES PRIOR TO CONSTRUCTION. BOTH PUBLIC AND PRIVATE.
- CONTRACTOR SHALL COORDINATE REMOVAL AND REPLACEMENT OF UTILITY SERVICES WITH UTILITY OWNER.
- POTHOLING AND HAND DIGGING SHALL BE PERFORMED NEAR EXISTING ABOVE OR UNDERGROUND UTILITIES, STRUCTURE, STORMWATER AND ANY ABOVE OR UNDERGROUND FEATURES. 10. MAINTAIN POSITIVE DRAINAGE ON SITE FOR THE DURATION OF CONSTRUCTION.
- 11. PERFORM SITE CLEANUP ON A DAILY BASIS. KEEP ALL SIDEWALKS, DRIVES, PARKING LOTS, ETC CLEAN OF DEBRIS
- 12. CONTRACTOR SHALL REPLACE ANY PROPERTY MONUMENTS REMOVED OR DESTROYED DURING CONSTRUCTION. ALL MONUMENTATION SHALL BE COMPLETED BY A PROFESSIONAL LICENSED SURVEYOR.
- 13. ANY DAMAGE TO EXISTING FACILITIES (CURBS, PAVEMENT, UTILITIES, ETC) SHALL BE REPLACED BY THE CONTRACTOR AT NO EXPENSE TO THE PROPERTY OWNER.

### UTILITY WARNING





TREE PROTECTION FENCE DETAIL, TYP. <sup>/</sup>NOT TO SCALE

10'



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- PROVIDED BY CONTRACTOR.

19.51'

- R29.03'

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11.24'

CORNER -

OF PCC

<u>. R</u>8.79' -

BOARDWALK

CORNER

OF PCC

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46.26

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Band of

REMAIN FOR

FENCE POST

R5.29

18.48'



1. PREFABRICATED BOARDWALK SYSTEM - 6' WIDE X LENGTH SHOWN IN PLANS. CONTRACTOR TO VERIFY SIZING IN FIELD. 2. ALL CONCRETE FOOTINGS AND RELATED WORK TO BE

3. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR FINAL REVIEW AND APPROVAL BY THE OWNER PRIOR TO ORDERING MATERIALS, PERFORMING ANY RELATED CONSTRUCTION OPERATIONS AND INSTALLATION OF BOARDWALK FEATURE. 4. BOARDWALK FRAME: CORTEN STEEL, BENT/FABRICATED TO ACHIEVE RADIUS OF BOARDWALK PATH SHOWN IN PLANS. 5. BOARDWALK DECKING: TREATED SYP, ALL BOARDS TAPER CUT TO PROVIDE A  $\frac{1}{4}$ " MAX. GAP BETWEEN BOARDS. 6. BOARDWALK CURB: GALVANIZED STRUCTURAL STEEL.

7. INSTALL RIVER ROCK-MIX UNDER BOARDWALK IN BIOCELL PLANTING AREA. SHAPE RIVER ROCK TO FOLLOW CURVE OF BOARDWALK. SEE L6.0, L6.1 & L6.2.



### **GENERAL SITE PLAN NOTES**

- 1. TWO WEEKS PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL NOTIFY: 1.1. OWNER: DNR AND IOWA STATE FAIR BOARD
- 1.2. ENGINEER: LUIS LEON 515-422-7016 2. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH IOWA STATEWIDE URBAN DESIGN AND SPECIFICATIONS (SUDAS). ALL CONSTRUCTION TESTING TO BE IN ACCORDANCE WITH SUDAS AND IS AT THE EXPENSE OF THE CONTRACTOR.
- 3. IN THE EVENT THAT THERE IS A DISCREPANCY BETWEEN THE QUANTITIES AND THE PLANS. THE DETAILED PLANS SHALL GOVERN.
- 4. CONTRACTOR SHALL FIELD VERIFY EXISTING GRADES AND LOCATION OF EXISTING UTILITIES, CONDUIT LINES, POLES, TREES, PAVING, BUILDINGS AND OTHER SITE STRUCTURES PRIOR TO DEMOLITION OR CONSTRUCTION AND IMMEDIATELY INFORM THE ENGINEER OF ANY DISCREPANCIES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT ALL PUBLIC AND/OR PRIVATE UTILITIES SERVING THE AREA TO DETERMINE THE PRESENT EXTENT AND LOCATION OF THEIR FACILITIES BEFORE BEGINNING WORK. NO COMPENSATION WILL BE ALLOWED FOR DAMAGE RESULTING FROM FAILURE TO
- COMPLY WITH THIS REQUIREMENT 5. ALL DEBRIS SPILLED ON THE PUBLIC R.O.W. SHALL BE PICKED UP BY THE CONTRACTOR AT THE END OF EACH WORK DAY.
- 6. ALL WORK SHALL BE IN ACCORDANCE WITH OSHA CODES AND STANDARDS. NOTHING INDICATED ON THESE DRAWINGS SHALL RELIEVE THE CONTRACTOR FROM COMPLYING WITH ANY APPROPRIATE SAFETY **REGULATIONS.**
- 7. CONSTRUCTION LIMITS ARE INDICATED ON THE PLANS. STAGING LOCATION OF EQUIPMENT AND MATERIALS, WORK AREA, AND EMPLOYEE PARKING SHALL BE
- COORDINATED WITH AND APPROVED BY OWNER. 8. THE CONTRACTOR WILL HOLD THE OWNER AND OWNER'S CONSULTANTS HARMLESS FROM ANY AND ALL CLAIMS OF ANY TYPE WHATSOEVER RESULTING FROM DAMAGES TO ADJOINING PUBLIC OR PRIVATE PROPERTY, INCLUDING REASONABLE ATTORNEY FEES INCURRED TO THE OWNER.
- 9. THE CONTRACTOR IS REQUIRED TO UTILIZE THE UTILITY ONE-CALL SERVICE AT (800) 292-8989 AT LEAST 48 HOURS PRIOR TO EXCAVATING ANYWHERE ON THE PROJECT.
- 10. ALL NECESSARY CONSTRUCTION SIGNS, BARRICADES AND OTHER TRAFFIC CONTROL DEVICES REQUIRED DURING CONSTRUCTION WILL BE FURNISHED BY THE CONTRACTOR. SIGNS, BARRICADES AND OTHER TRAFFIC CONTROL DEVICES MUST BE IN CONFORMANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS."

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### **GRADING NOTES**

- STRIP TOPSOIL FROM ENTIRE PROJECT AREA. STOCKPILE IN AREA DESIGNATED BY OWNER. TOPSOIL TO BE REUSED AS TOP DRESSINGS ON ALL UNSURFACED AREA UPON COMPLETION OF THE ROUGH GRADING. TOP DRESSING SHALL BE A MINIMUM UNIFORM THICKNESS OF 6".
- 2. PROVIDE COMPACTED NON-EXPANSIVE COHESIVE SOIL BENEATH ALL PAVEMENT PER DESIGN DETAILS. FILL TO BE COMPACTED TO 98% PROCTOR DENSITY.
- 3. ALL FILL AND BACKFILL MATERIALS SHALL BE APPROVED BY THE ENGINEER. UTILIZE EXISTING SITE FILL SOILS WHEN FEASIBLE. EXISTING SITE FILL SOILS SHALL BE SORTED TO REMOVE ANY RUBBLE OR DEBRIS. MOISTURE CONDITIONING OF EXISTING SITE FILL SOILS IS ANTICIPATED. ALL FILL SHALL BE PLACED WITHIN 4% OF THE OPTIMUM MOISTURE CONTENT.
- 4. FINISH CONTOURS SHOWN ARE TOP OF PAVEMENT OR TOP OF TOPSOIL. SEE BUILDING PLANS AND CONSTRUCTION DETAILS FOR FINISHED SUBGRADE BELOW FINISHED FLOOR AND PAVEMENT SECTIONS.
- 5. SCARIFY SUBGRADE TO DEPTH OF 6" WHERE TOPSOIL IS SCHEDULED. SCARIFY IN AREAS WHERE EQUIPMENT USED FOR HAULING AND SPREADING TOPSOIL HAS CAUSED COMPACTED SUBSOIL.
- 6. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES PRIOR TO CONSTRUCTION, BOTH PUBLIC AND PRIVATE.
- SPOT ELEVATIONS ARE SHOWN AT TOP OF FINISHED GRADE. 8. SEE STRUCTURAL PLANS FOR ANY SPECIAL EXCAVATION AND FILL REQUIREMENTS.

### **EROSION CONTROL NOTES**

- DISTURB THE LEAST AREA POSSIBLE TO COMPLETE THE SCOPE OF THE PROJECT. ALL SEDIMENT AND EROSION CONTROL PRACTICES WILL BE INSPECTED AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS BY RESPONSIBLE PERSONNEL. ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE BEST MANAGEMENT PRACTICES SHALL BE MADE IMMEDIATELY. INSPECTIONS ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- SEEDING FOR TEMPORARY SOIL STABILIZATION SHALL BE WITH OATS 2 TO 3 3. BUSHELS PER ACRE - AND MULCH.
- 4. GENERAL CONTRACTOR SHALL IMPLEMENT ALL EROSION CONTROL ACTIVITY WITH THE ASSISTANCE OF THE UTILITY SUBCONTRACTORS, BUILDING CONTRACTORS AND SUPPLIERS.
- APPLY FREQUENT LIGHT WATERING TO GROUND SURFACE AS REQUIRED TO 5. CONTROL DUST.
- 6. UPON COMPLETION OF CONSTRUCTION, SEED ALL DISTURBED AREAS PER PROJECT SPECIFICATIONS. MAINTENANCE OF ALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES 7.
- IS THE RESPONSIBILITY OF THE CONTRACTOR AND/OR CONTRACTORS. CLEANING OF CONTROL DEVICES SHALL BEGIN WHEN THEY HAVE LOST 50% OF THEIR CAPACITY. 8. LOCATION OF SOLID WASTE CONTAINER AND PORTABLE RESTROOM TO BE
- SPECIFIED BY CONTRACTOR. WHERE CONSTRUCTION VEHICLE ACCESS ROUTES INTERSECT PAVED PUBLIC 9. ROADS, PROVISIONS SHALL BE MADE TO MINIMIZE THE TRANSPORT OF SEDIMENT BY VEHICULAR TRACKING ONTO THE PAVED SURFACE. WHERE SEDIMENT IS TRANSPORTED ONTO A PUBLIC ROAD SURFACE. THE ROAD SHALL BE CLEANED THOROUGHLY AT THE END OF EACH DAY AND PRIOR TO A RAIN EVENT. SEDIMENT SHALL BE REMOVED FROM THE ROADS BY SHOVELING OR SWEEPING AND TRANSPORTED TO A SEDIMENT CONTROL DISPOSAL AREA. STREET WASHING SHALL
- BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER. 10. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED, UNLESS OTHERWISE AUTHORIZED BY THE IMPLEMENTING AGENCY. TRAPPED SEDIMENT AND THE DISTURBED SOIL AREAS RESULTING FROM THE DISPOSITION OF TEMPORARY MEASURES SHALL BE PERMANENTLY STABILIZED TO PREVENT FURTHER EROSION AND SEDIMENT.
- 11. LIMIT DUST GENERATION BY CLEARING ONLY THOSE AREAS WHERE IMMEDIATE ACTIVITY WILL TAKE PLACE, LEAVING THE REMAINING AREA(S) IN THE ORIGINAL CONDITION, IF STABLE. MAINTAIN THE ORIGINAL GROUND COVER AS LONG AS PRACTICAL. VEGETATE OR MULCH AREAS WITH EXPOSED SOILS THAT WILL NOT RECEIVE VEHICLE TRAFFIC. IN AREAS WHERE PLANTING, MULCHING OR PAVING IS IMPRACTICAL, APPLY GRAVEL OR LANDSCAPING ROCK. ADD SURFACE GRAVEL TO REDUCE THE SOURCE OF DUST EMISSION. LIMIT THE AMOUNT OF FINE PARTICLES (THOSE SMALLER THAN 0.075MM) TO 10 TO 20 PERCENT. SPRINKLE THE SITE WITH WATER UNTIL SURFACE IS WET. REPEAT AS NEEDED TO PREVENT CARRYOUT OF MUD ONTO STREET. USE VACUUM STREET SWEEPERS TO SWEEP UP ANY TRACKED SEDIMENT. REMOVE MUD AND OTHER DIRT PROMPTLY SO IT DOES NOT DRY AND THEN TURN INTO DUST. LIMIT DUST CAUSING WORK ON WINDY DAYS.
- 12. PRIOR TO ANY LAND DISTURBING ACTIVITIES, CONTRACTOR IS REQUIRED TO INSTALL ALL EROSION CONTROL MEASURES.

### AREA TO BE DISTURBED: 13,560 SF/.31 ACRES

	PROJECT NO. 038.028
CALL 811 / 1-800-292-8989 2 Working Days BEFORE YOU DIG DigSafeWait48.com	GRADING PLAN
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24" SURFACE **GRATE INTAKE** GRATE=801.96 FL(W)=799.23

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— G -	WV V	EXISTING WATER VALVE
		EXISTING LIGHT POLE

### 27" WATER MAIN MANHOLE W/ CHECK VALVE & METER

### UTILITY NOTES

- 1. WHERE PUBLIC UTILITY FIXTURES ARE SHOWN ON THE PLANS OR ENCOUNTERED WITHIN THE CONSTRUCTION AREA, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE OWNERS OF THOSE UTILITIES PRIOR TO THE BEGINNING OF ANY CONSTRUCTION 2. UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN
- PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. IT IS POSSIBLE THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN OR SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THEIR EXISTENCE AND EXACT LOCATION AND TO AVOID DAMAGE THERETO. NO CLAIMS FOR ADDITIONAL COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR FOR ANY
- INTERFERENCE OR DELAY CAUSED BY SUCH WORK. THE CONTRACTOR IS REQUIRED TO UTILIZE THE UTILITY ONE-CALL SERVICE AT (800) 292-8989 AT LEAST 48 HOURS PRIOR TO EXCAVATING ANYWHERE ON THE PROJECT. UTILITY CONFLICTS DISCOVERED DURING CONSTRUCTION WILL BE ADDRESSED AT THE TIME OF DISCOVERY.
- NOTIFY UTILITY COMPANIES PRIOR TO COMMENCING WORK. AVOID MAGE TO UTILITIES AND SERVICES DURING CONSTRUCTION. REPAIR ANY DAMAGE CAUSED BY THE CONTRACTOR'S CARELESSNESS AT THE CONTRACTOR'S EXPENSE. COORDINATE AND COOPERATE WITH UTILITY COMPANIES DURING CONSTRUCTION.
- COORDINATE WITH OWNER TO LOCATE EXISTING PRIVATE UTILITIES. PROTECT EXISTING UTILITIES WHICH ARE TO REMAIN. THE LOCATIONS OF ALL UTILITIES INDICATED ON THE PLANS ARE TAKEN FROM EXISTING RECORDS. THE EXACT LOCATION AND ELEVATION OF ALL UTILITIES MUST BE DETERMINED BY THE CONTRACTOR. IT SHALL BE THE DUTY OF THE CONTRACTOR TO ASCERTAIN WHETHER ANY ADDITIONAL FACILITIES OTHER THAN THOSE SHOWN ON THE PLAN MAY BE PRESENT AND TO AVOID DAMAGE TO UTILITIES. NO CLAIMS FOR ADDITIONAL COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR FOR ANY INTERFERENCE OR DELAY CAUSED BY DAMAGE
- SEE DETAILS FOR UTILITY TRENCH CONSTRUCTION REQUIREMENTS. 8. CONTRACTOR SHALL PROTECT EXISTING CURB AND PAVEMENT.
- 9. THE CONTRACTOR SHALL UTILIZE THE UTILITY ONE-CALL SERVICE AT (800)292-8989 AT LEAST 48 HOURS PRIOR TO EXCAVATING ANYWHERE ON THE PROJECT.
- 10. PROVIDE 1.5' MINIMUM VERTICAL CLEARANCE AT UTILITY CROSSINGS CONTACT ENGINEER IF CONFLICT EXISTS.



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		2. AL	L CONSTRUCTION SHALL BE IN
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		AN	ID DISEASE.
		6. AL	L PLANT MATERIAL SHALL CON
* * * *	TYPE A - TYPE 1 SUDAS GRASS	"AN	MERICAN STANDARD NURSERY
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890 08090- WWW////		12. TU	RF AREAS SHALL BE BACKFILL
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		IS. S⊓   ∩!	IRBS AND FINISHED SUBEACES
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		14. AL	L PLANTING BEDS EXCEPT BIO
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- BACKFILL WITH TOPSOIL PER SUDAS SPECIFICATIONS.

- 16. INSTALL WEED BARRIER FABRIC PER MANUF, SPECS,

- L6.2, SPECIFICATIONS AND SUDAS.
- CONSTRUCTION INCLUDING, BUT NOT LIMITED TO: - RE-SODDING/SEEDING OF DAMAGED/DISTURBED TURF GRASS;
- REPLACEMENT OF DAMAGED/DISTURBED TREES AND PLANTS
- THAT ARE BROKEN, INTERRUPTED, AND DEMOLISHED. EXISTING SYSTEM IF NECESSARY. FIELD VERIFY.

	BOTANICAL NAME	SIZE	SPACING	SIZE WxH	BLOOM
LEGHENY SERVICEBERRY	Amelanchier laevis	8' HT CLUMP	PER PLAN	15x25'	APR-MAY
MERICAN HORNBEAM	Curpinus caroliniana	2" B&B	PER PLAN	25x35'	FEB
ANNYBERRY VIBURNUM	Viburnum lentago (TREE FORM)	4' HT CLUMP	PER PLAN	10x15'	MAY
IERICAN CRANBERRYBUSH VIBURNUM	Viburnum trilobum	3 GAL. CONT.	PER PLAN	5x8'	AUG-FEB
	Physocarpus opulitolius 'Jefam'	3 GAL. CONT.	PER PLAN	5x6'	MAY-JUNE
PINE CURRANT	Ribes alpinum	3 GAL. CONT.	PER PLAN	4x3'	APRIL
MELIGHT HYDRANGEA	Hydrangea paniculata 'Lime Light'	3 GAL. CONT.	PER PLAN	8x8'	JULY-SEPT
ARF NORTHERN BUSH HONEYSUCKLE	Diervilla lonicera, dwarf var.	3 GAL. CONT.	PER PLAN	4x3'	JUNE-JULY
GENT SERVICEBERRY	Amelanchier alnifolia 'Regent'	3 GAL. CONT.	PER PLAN	4x6'	APRIL
JBY SPICE SUMMERSWEET	Clethera alnifolia 'Ruby Spice'	3 GAL. CONT.	PER PLAN	4x6'	JULY-SEPT
ANDING OVATION SERVICEBERRY	Amelanchier alnifolia 'Standing Ovation'	5 GAL. CONT.	PER PLAN	3x15'	AUG-FEB
STERN RED CEDAR 'TAYLOR'	Juniperus virginiana 'Taylor'	15 GAL. CONT.	PER PLAN	4X15'	AUG-FEB
UE GRAMA 'BLONDE AMBITION'	Bouteloua gracillis 'Blonde Ambition'	1 GAL. CONT.	PER PLAN	3x3'	AUG-FEB
DIANGRASS	Sorghastrum nutans	1 GAL. CONT.	PER PLAN	3x6'	AUG-FEB
ITLE BLUESTEM 'BLAZE'	Schizachyrium scoparium'Blaze'	1 GAL. CONT.	PER PLAN	2x3'	AUG-FEB
AIRIE DROPSEED 'TARA'	Sporobulus heterolepis 'Tara'	1 GAL. CONT.	PER PLAN	2x2'	AUG-OCT
VITCHGRASS 'SHENANDOAH'	Panicum virgatum 'Shenandoah'	1 GAL. CONT.	PER PLAN	3x4'	JULY-FEB
LOWERS)					
LIUM MILLENIUM	Allium 'Millenium'	1 GAL. CONT.	PER PLAN	1.5x1.5'	JULY-AUG
<u>ACK-EYED SUSAN 'GOLDSTRUM'</u>	Rudbeckia hirta 'Black-eyed Susan'	1 GAL. CONT.	PER PLAN	1x2'	JULY-OCT
ANKET FLOWER 'ARIZONA SUN'	Gaillardia 'Arizona Sun'	1 GAL. CONT.	PER PLAN	1x1.5'	MAY-SEPT
JTTERFLY MILKWEED	Asclepias tuberosa	1 GAL. CONT.	PER PLAN	3x2'	JUNE-SEPT
REY-HEADED CONEFLOWER	Ratibida pinnata	1 GAL. CONT.	PER PLAN	3-4'	JUNE-SEPT
DREOPSIS 'MOONBEAM'	Coreopsis verticillata 'Moonbeam'	1 GAL. CONT.	PER PLAN	2x2'	MAY-SEPT
IEEZEWEED	Helenium autumnale	1 GAL. CONT.	PER PLAN	2x4"	AUG-SEPT
NNIALS					
STILBE 'MAGGIE DALEY'	Astilbe 'Maggie Daley'	1 GAL. CONT.	PER PLAN	1x2'	JULY-AUG
ANCIS WILLIAMS HOSTA	Hosta sieboldiana 'Francis Williams'	1 GAL. CONT.	PER PLAN	3x2'	JUNE-JULY
EEDING HEART 'KING OF HEARTS'	Dicentra 'King of Hearts'	1 GAL. CONT.	PER PLAN	1x1.5'	JUNE-AUG
ORTHERN MAIDENHAIR FERN	Adiantum pedatum	1 GAL. CONT.	PER PLAN	1.5x2'	NA
OPARD PLANT 'OTHELLO'	Ligularia dentata 'Othello'	1 GAL. CONT.	PER PLAN	4x3'	JUNE-AUG
JM AND SUBSTANCE HOSTA	Hosta 'Sum and Substance'	1 GAL. CONT.	PER PLAN	5x3'	AUG
IDE BRIM HOSTA	Hosta 'Wide Brim'	1 GAL. CONT.	PER PLAN	3x-2'	JULY-AUG
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SUPERSEDE WRITTEN QUANTITIES WHERE DISCREPANCIES OCCUR.

OR PLANTING AND LANDSCAPE MATERIALS DETAILS, SEEDING NOTES, AND ANY

ON SHALL BE IN ACCORDANCE WITH IOWA SUDAS STANDARDS AND SPECIFICATIONS. ING UTILITIES PRIOR TO INSTALLATION OF PLANT MATERIAL. NOTIFY OWNER OF ANY TWEEN FIELD CONDITIONS AND THOSE SHOWN ON THE PLAN.

TOTAL QUANTITIES AS SHOWN ON THE PLANT LIST SHALL BE THE RESPONSIBILITY OF CONTRACTOR AND THE TOTAL QUANTITIES SHALL BE AS SHOWN ON THE PLAN. LL WARRANTY ALL PLANTS FOR ONE YEAR FROM FAILURE TO THRIVE, DEFECTS, DEATH,

IAL SHALL CONFORM WITH THE STANDARDS SET FORTH IN THE LATEST EDITION OF THE DARD NURSERY STOCK" ANSI Z60 PUBLISHED BY THE AMERICAN ASSOCIATION OF

DDED BARK MULCH IN ALL PLANTING BEDS, MULCH SHALL BE INSTALLED 1" BELOW MULCH SAMPLE TO BE SUBMITTED TO OWNER FOR APPROVAL PRIOR TO INSTALLATION. VE DRAINAGE IN ALL PLANTING BEDS AND AWAY FROM BUILDINGS AND STRUCTURES. GENT HERBICIDE TO ALL NEW PLANTING BEDS AT AT MANUFACTURER'S RECOMMENDED STALLATION OF MULCH.

LANT MATERIAL IN IMPERVIOUS SOILS, (i.e. HOLES WHICH , WHEN FILLED WITH WATER, ELY DRAIN WITHIN TWO HOURS.)

HALL BE REMOVED IMMEDIATELY AFTER INSTALLATION.

BE BACKFILLED WITH RESERVED OR IMPORTED TOPSOIL TO WITHIN 1" OF THE TOP OF HED SURFACES (SIDEWALKS, TRAILS, ETC.) WHERE APPLICABLE. COORDINATE WITH CIVIL FOR SUBGRADE ELEVATIONS.

ALL BE BACKFILLED WITH RESERVED OR IMPORTED TOPSOIL TO WITHIN 4" OF THE TOP OF HED SURFACES (SIDEWALKS, TRAILS, ETC.) WHERE APPLICABLE. COORDINATE WITH CIVIL FOR SUBGRADE ELEVATIONS.

DS EXCEPT BIORETENTION CELL TO BE EXCAVATED TO DEPTH OF 6" MINIMUM AND AMENDED TO A DEPTH OF 4" WITH THE SAME SOIL MIXTURE REQUIRED FOR PLANTING BACKFILL MATERIAL

15. INSTALL BLACK METAL LANDSCAPE EDGING PER MANUF. SPECS. ALONG ALL PLANTING BEDS WHERE THE BEDS ARE ADJACENT TO TURF GRASS OR PLAY MATERIAL, AND AT THE EDGE OF RIVER ROCK PER PLAN.

17. BEFORE BACKFILLING WITH IMPORTED OR RESERVED TOPSOIL, LANDSCAPE CONTRACTOR SHALL LOOSEN THE TOP 4-6" OF COMPACTED SUBGRADE BY ROTOTILLING OR OTHER APPROVED METHOD. 18. ALL NATIVE PRAIRIE SEED MIX/ FESCUE TURF MIX AREAS/DISTURBED AREAS TO BE SEEDED PER SHEET

19. CONTRACTOR SHALL WARRANTY ALL SEEDING FOR A PERIOD OF ONE YEAR FROM ANY DEFECTS IN SEEDING AREAS SUCH AS: WEEDY AREAS, ERODED AREAS, AND BARE SPOTS.

20. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPAIRS TO EXISTING SITE LANDSCAPING DUE TO NEW

- RECONNECTION, REPLACEMENT, AND REINSTALLATION OF EXISTING IRRIGATION LINES AND EQUIPMENT

- CONTRACTOR SHALL INSTALL SLEEVING ACROSS NEW ROADWAY(S) AND SIDEWALK(S) TO RECONNECT

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**GRAPHIC SCALE** 







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PLANTING PLAN

SHEET NO.

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### LEGEND

O	EXISTING WOOD / METAL FENCE
//	EXISTING CHAINLINK FENCE
	EXISTING PCC
	EXISTING LANDSCAPE ROCK
	PERMEABLE PAVERS
**************************************	6" PCC
605080808080	RIVER ROCK MULCH W/ FABRIC
$\bigcirc$	PROPOSED STORM STRUCTURE
	PROPOSED AREA INTAKE
۲	PROPOSED SUBDRAIN CLEANOUT
O a C	LANDSCAPE BOULDERS
\_/ <sup>\</sup> \	METAL EDGING

	BIO	RETE	NTION CELL BASIN PLANTING	SCHEDULE			
	QTY	ID	COMMON NAME	SCIENTIFIC NAME	SIZE	SPACING	BLOOM
	8	BBS	BIG BLUESTEM	Andropogon gerardii	1 GAL. CONT.	PER PLAN	SEPT-FEB
	27	BCG	GENTIAN 'BLUE CROSS'	Gentiana cruciata 'Blue Cross'	4" PLUG	12" O.C.	AUG-SEPT
G	59	BES	BLACK-EYED SUSAN 'GOLDSTRUM	Rudbekia fulgida 'Goldstrum'	4" PLUG	12" O.C.	JULY-OCT
Ď.	16	BFH	HYSSOP 'BLUE FORTUNE'	Agastache hybrida 'Blue Fortune'	4" PLUG	24" O.C.	JULY-SEPT
2	27	BMW	BUTTERFLY MILKWEED	Asclepias tuberosa	4" PLUG	12" O.C.	JUNE-SEPT
	30	GHC	GRAY-HEADED CONEFLOWER	Ratibida pinnata	4" PLUG	12" O.C.	JUNE-SEPT
00	23	LBS	LITTLE BLUESTEM 'BLAZE'	Schizachyrium scoparium'Blaze'	1 GAL. CONT.	PER PLAN	AUG-FEB
E S	20	MBC	COREOPSIS 'MOONBEAM'	Coreopsis 'Moonbeam'	4" PLUG	12" O.C.	MAY-SEPT
ΞS	17	PBS	PRAIRIE BLAZING STAR	Liatris spicata	4" PLUG	24" O.C.	AUG-SEPT
	30	PCF	CONEFLOWER 'CHEYENNE SPIRIT'	Echinacea purpurea 'Cheyenne Spirit'	4" PLUG	12" O.C.	JUNE-SEPT
	17	PDS	PRAIRIE DROPSEED 'TARA'	Sporobulus heterolepis 'Tara'	1 GAL. CONT.	PER PLAN	AUG-OCT
ZZ	14	SMW	SWAMP MILKWEED	Asclepias incarnata	4" PLUG	12" O.C.	JULY-SEPT
ΝŢ	10	SSF	SUMMER SUN FALSE SUNFLOWER	Heliopsis helianthoides	4" PLUG	24" O.C.	AUG-SEPT
ОL	25	SSG	SWITCHGRASS 'SHENANDOAH'	Panicum virgatum 'Shenandoah'	1 GAL. CONT.	PER PLAN	JULY-FEB
	7	YRW	YARROW 'BALVINRED'	Achillea hybirda 'Balvinred'	4" PLUG	12" O.C.	JUNE-SEPT
	10	YYW	YARROW 'MOONSHINE'	Achillea hybirda 'Moonshine'	4" PLUG	12" O.C.	JUNE-SEPT
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GRAPHIC SYMBOLS SUPERSEDE WRITTEN QUANTITIES WHERE DISCREPANCIES OCCUR.

### **BIORETENTION CELL PLANT SYMBOLS**



PLUG PLANTINGS, PER SCHEDULE

1 GAL. CONT. PLANTINGS, PER SCHEDULE

- 3. EXCAVATE THE TRENCH FOR THE SUBDRAIN SIMILAR TO SUDAS FIGURE 4040.231 FOR
- 4. EXCAVATE ACROSS THE BOTTOM OF THE BIORETENTION CELL FOR PLACEMENT OF THE
- MATERIAL AND REMAINS AT THE PROPER SUBGRADE ELEVATION TO ALLOW FOR
- TRENCH AND UP THE SIDES OF THE EXCAVATED AREA WITH ENOUGH MATERIALS TO OVERLAP 18 INCHES OVER THE TOP OF THE AGGREGATE. OVERLAP ADJACENT STRIPS
- 7. PLACE THE FIRST 2 INCHES OF THE AGGREGATE SUBBASE EVENLY OVER THE BOTTOM OF THE SUBDRAIN TRENCH. DO NOT OPERATE MACHINERY DIRECTLY ON THE EXCAVATED SUBGRADE OF THE MODIFIED SOIL LAYER DURING AGGREGATE SUBBASE
- 8. INSTALL SUBDRAIN AT THE ELEVATION SPECIFIED IN THE PLAN. INSTALL CLEANOUTS AT
- 10. F A CHOKER AGGREGATE LAYER IS SPECIFIED IN THE CONTRACT DOCUMENTS, INSTALL
- 11. PLACE MODIFIED SOIL IN 8 TO 12 INCH LIFTS TO THE ELEVATION SPECIFIED IN THE PLANS. DO NOT OPERATE HEAVY MACHINERY DIRECTLY ON THE SUBGRADE OF THE MODIFIED SOIL LAYERS DURING PLACEMENT. OVERFILL AREA WITH MODIFIED SOIL BY

- 12. AVOID OVER COMPACTION BY ALLOWING TIME FOR NATURAL SETTLEMENT. IF THE PROJECT SCHEDULE DOES NOT ALLOW FOR NATURAL SETTLEMENT OF SOIL AND THE CONTRACT DOCUMENTS REQUIRE COMPACTION BY SOAKING, COMPACT THE FILTER SOIL MATRIX BY SOAKING AS DESCRIBED BELOW:
  - APPLY WATER TO UNIFORMLY SATURATE SURFACE BY SPRAYING OR SPRINKLING. • ENSURE ENTIRE BIORETENTION CELL IS SATURATED. • ADD MODIFIED SOIL AS REQUIRED TO RESTORE SETTLED SURFACE TO FINISHED
- ELEVATION. 13. ROUGHEN SURFACE OF SIDE SLOPES THAT ARE 4(H):1(V) OR STEEPER TO REDUCE
- POTENTIAL FOR RILL EROSION ALONG EQUIPMENT TRACTS. 14. PERFORM STABILIZATION MEASURES AND INSTALL LANDSCAPING (SEED, SOD, NATIVE PLANTS, TREES, SHRUBS, ETC.) AS SPECIFIED IN THE PLANS.
- 15. INSTALL SIDE SLOPE EROSION AND SEDIMENT CONTROL MEASURES AS SPECIFIED IN THE PLANS.
- 16. UNIFORMLY GRADE AND RAKE THE TOP OF THE MODIFIED SOIL LAYER TO A FLAT, SMOOTH, UNIFORM SURFACE.
- 17. ENSURE GOOD HOUSEKEEPING MEASURES ARE TAKEN THROUGHOUT CONSTRUCTION, UNTIL FINAL ACCEPTANCE OF IMPROVEMENTS BY OWNER, TO PREVENT SEDIMENTATION AND EROSION THAT COULD REDUCE THE EFFECTIVENESS OF THE BIORETENTION CELL. ADDRESS ANY SUCH SEDIMENTATION AND EROSION SHOULD IT OCCUR, UNTIL FINAL ACCEPTANCE.
- 18. DO NOT STORE MATERIALS OR OPERATE HEAVY EQUIPMENT WITHIN OR NEAR THE FOOTPRINT OF THE BIORETENTION CELL PRACTICE AFTER INSTALLATION HAS BEEN COMPLETED.

1.	ALL PLANT MATERIAL SHALL CONFORM WITH THE STANDARDS SET FORTH IN THE
	LATEST EDITION OF THE "AMERICAN STANDARD NURSERY STOCK" ANSI Z60
	PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN.
2.	ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL DEEPARTMENT OF
	NATURAL RESOURCES (DNR) STANDARDS AND SPECIFICATIONS AND IN
	ACCORDANCE WITH IOWA STATEWIDE URBAN DESIGN AND SPECIFICATIONS (SUDAS
З.	ALL CONSTRUCTION TESTING TO BE IN ACCORDANCE WITH SUDAS AND IS AT THE
	EXPENSE OF THE CONTRACTOR.
4.	LOCATE ALL EXISTING UTILITIES PRIOR TO INSTALLATION OF PLANT MATERIAL. NOTIF
	OWNER OF ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND THOSE SHOWN
	ON THE PLAN.
5.	VERIFICATION OF TOTAL QUANTITIES AS SHOWN ON THE PLANT LIST SHALL BE THE
	RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR AND THE TOTAL QUANTITIES
	SHALL BE AS SHOWN ON THE PLAN.
6.	CONTRACTOR SHALL WARRANTY ALL PLANTS FOR ONE YEAR FROM FAILURE TO
	THRIVE, DEFECTS, DEATH, AND DISEASE , PER SUDAS SECTION 9030.
7.	ESTABLISH POSITIVE DRAINAGE IN ALL PLANTING BEDS AND AWAY FROM BUILDINGS
	AND STRUCTURES.
8.	APPLY PRE-EMERGENT HERBICIDE TO ALL NEW PLANTING BEDS AT
	MANUFACTURER'S RECOMMENDED RATE PRIOR TO INSTALLATION OF MULCH.
9.	DO NOT INSTALL PLANT MATERIAL IN IMPERVIOUS SOILS, (i.e. HOLES WHICH , WHEN
	FILLED WITH WATER, DO NOT COMPLETELY DRAIN WITHIN TWO HOURS.)
10.	SEE ENGINEER'S PLAN FOR BIORETENTION CELL DESIGN, SIZING, AND
	TOPSOIL/MATERIAL PLACEMENT.
11.	ALL TURF AREAS/DISTURBED AREAS TO BE SEEDED PER PLANS AND SUDAS SECTION
	9010.
12.	INSTALL 3-INCH DEPTH SHREDDED HARDWOOD MULCH IN BIORETENTION CELL
	PLANTING AREA PER SUDAS SECTION 9030.
13.	LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPAIRS TO EXISTING
	SITE LANDSCAPING DUE TO NEW CONSTRUCTION INCLUDING, BUT NOT LIMITED TO:
	-RE-SODDING/SEEDING OF DAMAGED/DISTURBED TURF GRASS SWALES;
	-REPLACEMENT OF DAMAGED/DISTURBED TREES;AND
	-RECONNECTION, REPLACEMENT, AND REINSTALLATION OF EXISTING
	IRRIGATION LINES AND EQUIPMENT THAT ARE BROKEN, INTERRUPTED,

AND DEMOLISHED. CONTRACTOR SHALL INSTALL SLEEVING ACROSS NEW ROADWAY(S) AND SIDEWALK(S) TO RECONNECT EXISTING SYSTEM IF NECESSARY. FIELD VERIFY.

DESCRIPTION	METHOD	FREQUENCY	SEASON
SOIL			
INSPECT AND REPAIR EROSION	VISUAL	MONTHLY	ALL
PLANTS			
REPLACE ANY DEAD OR DISEASED VEGETATION	SEE PLANTING SPECIFICATIONS	TWICE PER YEAR	SPRING SUMMER
TREAT ALL DISEASED PLANTS NOT TO BE REMOVED	MECHANICAL OR BY HAND	AS NEEDED	ALL
WATER PLANT MATERIAL AT END OF EACH DAY FOR 14 CONSECUTIVE DAYS AFTER PLANTING	BY HAND	IMMEDIATELY AFTER PROJECT COMPLETION	N/A
REMOVE ALL VOLUNTEER PLANTS OF INVASIVE SPECIES	BY HAND	MONTHLY	ALL
MOWING PLANTS TO HEIGHT OF 4-5"	BY HAND HELD STRING TRIMMERS	MONTHLY	1ST GROW SEASON O



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PLANTING PLAN -**BIORETENTION CELL** 

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### GENERAL PLANTING AND TOPSOIL NOTES:

1. THE CONTRACTOR SHALL MAINTAIN A QUALIFIED SUPERVISOR ON THE SITE AT ALL TIMES DURING CONSTRUCTION THROUGH COMPLETION OF FINAL PUNCHLIST WORK.

2. THE CONTRACTOR SHALL VERIFY ALL PLANT MATERIAL QUANTITIES PRIOR TO INSTALLATION. ANY PLANT MATERIAL QUANTITIES LISTED ARE FOR THE CONVENIENCE OF THE CONTRACTOR. ACTUAL NUMBER OF SYMBOLS SHALL HAVE PRIORITY OVER QUANTITY DESIGNATED.

3. THE CONTRACTOR SHALL FURNISH AND PAY FOR ALL CONTAINER OR FIELD GROWN TREES, SHRUBS AND VINES, INCLUDING SEEDED AND SODDED TURF, HYDROMULCHES AND FLATTED GROUNDCOVERS. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE AND PAY FOR: PLANTING OF ALL PLANT MATERIALS; THE SPECIFIED GUARANTEE OF ALL PLANT MATERIALS; THE STAKING AND GUYING OF TREES AND THE CONTINUOUS PROTECTION OF ALL PLANT MATERIALS UPON THEIR ARRIVAL AT THE SITE. CONTRACTOR SHALL PROVIDE A WARRANTY ON ALL TREES, SHRUBS, AND PERENNIALS FOR ONE YEAR.

4. ALL PLANT MATERIAL SHALL BE SUBJECT TO APPROVAL BY THE LANDSCAPE ARCHITECT AND/OR OWNER PRIOR TO INSTALLATION.

5. TOPSOIL: TOPSOIL TO BE PLACED BY GENERAL/GRADING CONTRACTOR. COORDINATE TOPSOIL PLACEMENT WITH GENERAL/GRADING CONTRACTOR AND REFERENCE CIVIL SHEETS FOR MORE INFORMATION. REFER TO CIVIL SHEETS FOR TOPSOIL AND MULCHING REQUIREMENTS IN BIORETENTION CELLS.

- ALL TURF GRASS AND NATIVE GRASS AREAS SHALL RECEIVE A MIN. OF 6" OF RESERVED OR IMPORTED TOPSOIL, COMPLY WITH SUDAS.
- ALL SHRUB AND GROUNDCOVER AREAS SHALL RECEIVE A MIN. OF 8" OF RESERVED OR IMPORTED TOPSOIL, COMPLY WITH SUDAS.
- TOPSOIL SHALL BE FREE OF ROCKS, BOULDERS, BRANCHES, STICKS, GARBAGE, ETC. AND SHALL BE SCREENED TO ELIMINATE ROCKS LARGER THAN 2" DIAMETER. IMPORTED TOPSOIL MIX IF USED SHALL CONTAIN 10% ORGANIC MATTER (40% COMPOST). SOIL PORTION MUST BE SANDY LOAM AS DEFINED BY THE USDA.
- SHRUB BEDS: PLACE 4" IMPORTED OR RESERVED TOPSOIL MIX ON SURFACE AND TILL INTO 2" OF SOIL. PLACE SECOND LIFT OF 4" IMPORTED OR RESERVED TOPSOIL MIX ON SURFACE. RAKE BEDS TO SMOOTH AND REMOVE SURFACE ROCKS OVER 2" DIAMETER
- TURF GRASS AREAS: PLACE 3" IMPORTED OR RESERVED TOPSOIL MIX ON SURFACE AND TILL INTO 2" OF SOIL. PLACE SECOND LIFT OF 3" IMPORTED OR RESERVED TOPSOIL MIX ON SURFACE. WATER OR ROLL TO COMPACT SOIL TO 85% OF MAXIMUM. RAKE TO LEVEL AND SMOOTH AND REMOVE SURFACE ROCKS OVER 1" DIAMETER.
- NATIVE GRASS AREAS: PLACE 6" IMPORTED OR RESERVED TOPSOIL MIX ON SURFACE • AND DRAG OR RAKE TO SMOOTH. WATER OR ROLL TO COMPACT SOIL TO 85% OF MAXIMUM. RAKE TO LEVEL AND SMOOTH AND REMOVE SURFACE ROCKS OVER 1" DIAMETER.

6. FOR AREA TO BE LANDSCAPED, THE FOLLOWING AMENDMENTS SHALL BE UNIFORMLY BROADCAST AND THOROUGHLY INCORPORATED BY MEANS OF A ROTOTILLER OR EQUAL.

AMOUNT PER 1,000 SQUARE FEET: 1 CY COMPOST

7. THIRTY (30) DAYS AFTER INSTALLATION ALL LANDSCAPE SHALL BE FERTILIZED WITH BEST FERTILIZER COMPANY 18-0-10 OR APPROVED EQUAL, APPLIED AT THE RATE OF SIX POUNDS (6 LBS.) PER 1,000 SQUARE FEET. FERTILIZER APPLICATION SHALL BE CONTINUED THEREAFTER AT MONTHLY INTERVALS.

### GENERAL TREE PLANTING NOTES:

1. PLANTING MATERIALS MUST MEET THE MINIMUM ACCEPTABLE STANDARD SET BY THE AMERICAN ASSOCIATION OF NURSERYMEN'S AMERICAN STANDARD FOR NURSERY STOCK 2. ONLY CLASS 1 (SMALL GROWING) TREES ARE PERMITTED TO BE PLANTED UNDER OR WITHIN FIFTEEN FEET (15') OF OVERHEAD UTILITY LINES.

- 3. PRUNE ONLY BROKEN OR DAMAGED BRANCHES.
- 4. DO NOT APPLY FERTILIZER AT TIME OF PLANTING.

5. THE DEPTH OF THE ROOT BALL SHALL BE MEASURED FROM THE BOTTOM OF THE TRUNK FLARE TO THE BOTTOM OF THE BALL, HANDLE B&B PLANTS CAREFULLY WHEN TRANSFERRING TO PLANTING HOLE. DO NOT DROP. LIFT OR CARRY BY HOLDING THE ROOT BALL, NOT THE TRUNK.

6. REMOVE ANY EXCESS SOIL FROM TOP OF ROOT BALL TO EXPOSE THE TRUNK FLARE. PLANT WITH TRUNK FLARE LEVEL WITH OR UP TO 1" ABOVE FINISHED GRADE.

- 7. REMOVE ALL WIRE BASKETS, BURLAP, AND ROPE FROM ROOT BALL
- 8. STRAIGHTEN OR CUT AND REMOVE ANY CIRCLING ROOTS.

9. BACKFILL PLANTING HOLE 2/3 FULL WITH EXISTING SOIL. SETTLE WITH WATER. CONTINUE TO FILL WITH SOIL, WATER AGAIN, WATER THOROUGHLY AFTER INSTALLATION TO ELIMINATE AIR POCKETS.

10. DO NOT INSTALL TREES IN IMPERVIOUS SOILS (I.E. HOLES WHICH, WHEN FILLED WITH WATER, DO NOT COMPLETELY DRAIN WITHIN TWO HOURS.

11. ANY TREE WRAP SHALL BE REMOVED IMMEDIATELY AFTER INSTALLATION.

10. STAKES AND TIES. USE ONLY IF NECESSARY FOR STABILITY. PROVIDE STAKING PER SUDAS SECTION 9030 USING 3 STEEL POSTS (CAN BE USED FOR DEER PROTECTION FENCING ALSO). SET STAKES PARALLEL TO PREVAILING WIND AND OUTSIDE THE ROOT BALL. TIES MUST BE WIDE (MINIMUM 1") FLEXIBLE BELT-LIKE STRAPPING. DO NOT USE ROPE OR WIRE. DO NOT OVER-TIGHTEN AROUND TREE. TIES SHOULD BE TIGHT ENOUGH TO SUPPORT THE TREE WHILE ALLOWING IT TO SWAY. REMOVE STAKES AND TIES WITHIN ONE YEAR. 11. PROVIDE DEER PROTECTION FENCE: INSTALL A 4-FOOT TALL FENCE AROUND EACH TREE WITH A 3-FOOT DIAMETER. USE A 14-GUAGE WIRE FABRIC FENCE FASTENED TO A MIN. OF 3 STEEL POSTS WITH A MIN. OF 2 CABLE TIES PER POST.

### **SEEDING NOTES:**

1. ALL SEED SHALL BE DELIVERED TO THE JOB SITE IN UNOPENED BAGS BEARING THE SEED SUPPLIER'S TAG SHOWING THE PROPORTIONS AND MIX COMPONENTS OF THE SEED CONTAINED IN EACH BAG INCLUDING THE AREA TO BE COVERED BY THE SEED CONTAINED IN EACH BAG.

2. CONTRACTOR SHALL PROVIDE THE PACKING LIST FROM THE SEED SUPPLIER LISTING ALL THE SEED DELIVERED TO THE JOB SITE PER APPLICATION AND SEED SPECIES LISTED IN THE PLANS AND SPECIFICATIONS.

3. THERE SHALL BE 32 LBS PER ACRE OF OATS (AVENA SATIVA) OR OTHER SEASONALLY APPROPRIATE COVER CROP AS APPROVED ADDED TO THE MIX. 4. ALL SEEDING OF SLOPES SHALL BE INSTALLED WITH AN APPROVED TACKIFIER OR EROSION CONTROL BLANKET, OR APPROVED EQUAL. 5. USE SUDAS TYPE 4 SEEDING PER TABLE 9010.09 FOR EROSION CONTROL (NOT SHOWN ON PLAN) IN ALL DISTURBED AREAS WHEN REQUIRED BASED ON SPECIFIED DATES FOR PERMANENT SEEDING. COMPLY WITH SUDAS 9010 SECTION 2.02. 6. ALL SEEDING AREAS TO RECEIVE STRAW BLANKET, OR APPROVED EQUAL, STAPLED SECURELY IN PLACE IMMEDIATELY FOLLOWING SEEDING.

SEED - PROVIDE FRESH, CLEAN, NEW-CROP SEED COMPLYING WITH TOLERANCE OF PURITY AND GERMINATION ESTABLISHED BY THE OFFICIAL SEED ANALYSIS OF NORTH AMERICA. PROVIDE SEED MIXTURE COMPOSED OF GRASS SPECIES AND PERCENTAGES AS FOLLOWS:

PROVIDE MIXTURE COMPOSED OF GRASS AND FERTILIZER IN PERCENTAGES AS FOLLOWS: SEED:

FERTILIZER: FALL SEEDING - AUGUST 10 - SEPTEMBER 30 SPRING SEEDING - MARCH 1 - MAY 31

TURF 'A'	TYPE 1 SEED MIXTURE SUDAS TABLE 9010.06				
COMMON	NAME		PLS		
GRASSES			lbs/acre		
Creeping red fescue			25		
Turf-type perennial ryegrass (2)			20		
Turf-type perennial ryegrass (2)			20		
Kentucky bluegrass cultivar (3)			65		
Kentucky bluegrass cultivar (3) 65		65			
Kentucky bluegrass cultivar (3)			65		

(1) A commercial mixture may be used if it contains a high percentage of similar bluegrass; it may or may not contain creeping fescue. (2) Choose two different cultivars of turf-type perennial ryegrass, at 20 lbs/acre each.

(3) Choose three different cultivars of Kentucky bluegrass, at 65 lbs/acre each

TURF 'B'	NO MOW FESCUE SEED MIXTURE					
COMMO	N NAME	SCIENTIFIC NAME	PLS			
GRASSES			lbs/acre			
Hard Fesc	ue	Festuca longifolia	55			
Chewing F	escue	Festuca rubra var. commutate	55			
Creeping Red Fescue		Creeping Red Fescue Festuca rubra var. rubra				
Sheeps Fe	escue	Festuca ovina	55			











SHEET NO.

AND DETAILS

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1. 2.	PROPOSED BUILDING, REFER TO REFERENCE FLOOR PLAN SHEET A-100. EXISTING DNR PAVILION BUILDING TO REMAIN, LEAD ABATEMENT AND ATTIC STAIR TO BE INSTALL IN
3	EXISTING COURTYARD AREA TO REMAIN REFER TO CIVIL DRAWINGS
 	PROPOSED STACE AREA REFER TO REFERENCE FLOOR PLAN SHEET A=400
	EXISTING STORM-SEWER LINE TO REMAIN PROTECT IN PLACE
6	EXISTING STORM SEWER EINE TO REMAIN, FROTEOF IN TEROLE.
	COORDINATE NEW FLECTRICAL LINE RELOCATION WITH IOWA STATE FAIR STAFE. RESTORE ALL
	DISTURBED AREAS, INCLUDING CONCRETE PARKING SLAB, FROM RELOCATION.
7.	EXISTING GAS LINE TO BE REROUTED BY MID AMERICAN ENERGY, COORDINATE NEW GAS LINE
	RELOCATION WITH MID AMERICAN ENERGY. RESTORE ALL DISTURBED AREAS, INCLUDING CONCRETE
	PARKING SLAB, FROM RELOCATION.
8.	EXISTING ELECTRICAL TRANSFORMER TO REMAIN.
9.	EXISTING TELEPHONE/ELECTRICAL POLE TO REMAIN.
10.	REMOVE AND SALVAGE POLE LIGHT, RETURN POLE AND LIGHT HEADS TO DNR FOR FUTURE USE.
11.	EXISTING POLE LIGHT TO REMAIN, REWIRE TO NEW BUILDING PANEL, REFER TO ELECTRICAL DRAWINGS.
12.	DEMOLISH PORTIONS OF THE EXISTING FENCE, AS NEEDED, TO ALLOW FOR CONSTRUCTION OF BUILDING
	AND STAGE. SALVAGE FENCE BOARDS AND REINSTALL FENCE TO FACE OF BUILDING AND STAGE TO
	PROVIDE A COMPLETED FENCE AFTER CONSTRUCTION IS COMPLETED.
13	DEMOLISH COURTYARD AREA. REFER TO CIVIL PLANS FOR EXTENT OF DEMOLITION AND RENOVATION.





							CONSULTANT		
0.0 = 58'-0" T.D. = 48'-10"							OWA DEPARTMENT OF	NATURAL RESOURCES NGINEERING SERVICES - WALLACE BUILDING 502 E. 9TH ST., DES MOINES, IA 50319-0034	P: 515.725.8200 F: 515.725.8202
							LIFE SAFETY PLAN	ARCHERY BUILDING AND COURTYARD IMPROVEMENTS FOR: DNR FAIRGROUNDS	ast grand ave. Des moines, la 50317
<u>STATE OF IOWA - RECOGNIZED AND ENFORCED CODES:</u> 2015 International Building Code - Iowa Administrative Rule 661-201 and 661-301 2015 International Fire Code - Iowa Administrative Rule 661-201 2012 International Energy Conservation Code - Iowa Administrative Rule 661-303	SUMMARY Allowable bldg area (IBC TBL 503)	REQUIRED 17,500 SF	PROVIDED 1,150 SF	SYMBOL           E-E         EXI           T.D.         TRA	LIFE SAFET DESCRIPTION T TO EXIT IN LINEAR FEET AVEL DISTANCE FROM M.R.P.	Y       LEGEND         LINE TYPE            Image: Imag	NO. BY DATE	REVISION	3000 E
2015 International Existing Building Code — Iowa Administrative Rule 661-301 and 661-350 2012 NFPA 101 Life Safety Code — Iowa Administrative Rule 661-205 2010 Americans with Disabilities Act — Iowa Administrative Rule 661-302 Smoke Alarms/Detectors — Iowa Administrative Rule 661-210 (effective July 1, 2021) Carbon Monoxide Alarms — Iowa Administrative Rule 661-211 State Mechanical Code— the Department of Public Health Iowa Administrative Rule 641-61 State Plumbing Code — the Department of Public Health Iowa Administrative Rule 641-25 State Electrical Code — the State Electrical Licensing Board Iowa Administrative Rule 661-504	HEIGHT LIMITATION (IBC TBL 503) AUTOMATIC SPRINKLER SYSTEM (NFPA 13) EXIT ACCESS TRAVEL DISTANCE (IBC 1016.1) EXIT ACCESS DOORWAYS (IBC TBL 1019.1)	2 STORIES (40') NO 200'-0" 1	1 STORIES (17'-6") NO 48'-10" 1	D.D. DIA © EXI MOS EGF -FEC - FIRM	AGONAL DISTANCE T LIGHT ST REMOTE POINT (M.R.P.) RESS DOOR E EXTINGUISHER		DRAWN B	Y: PROJECT NUMBER: 24-05-77-01 DATE: 11.07.2023	
	EGRESS WIDTH PER OCCUPANT (IBC TBL 1005.1) LEVEL [ .2"]	(.2") X 4 = 0.8"	1 DOORS @ 36"= 36"				SHEET NO	A-02	0



KEYNOTES
<ol> <li>DOOR AS SCHEDULED, REFER TO SHEET A-600.</li> <li>WINDOW AS SCHEDULED, REFER TO SHEET A-600.</li> <li>6" CONCRETE FLOOR SLAB WITH #4 REBAR 24" O.C. BOTH DIRECTIONS, OVEF SMOOTH TROWEL FINISH, REFER TO SHEET A-600.</li> <li>EXTERIOR WALL, REFER TO WALL TYPES SHEET A-002.</li> <li>OVERHEAD GARAGE DOOR, REFER TO DOOR SCHEDULE SHEET A-600.</li> <li>ROOF LINE ABOVE.</li> <li>6X6 ROUGH-SAWN DOUGLAS-FIR COLUMNS ON STONE COLUMN BASE, REFER 05/A-300.</li> <li>6" EXTERIOR CONCRETE SIDEWALK WITH #4 REBAR 24" O.C. BOTH DIRECTION SUBBASE, BROOM FINISH.</li> <li>STOOP FOOTING WITH EXTERIOR CONCRETE, BROOM FINISH, REFER TO DETAIL</li> <li>IN-FILL SLAB WHERE EXISTING CONCRETE WAS SAW-CUT. POUR 6" THICK E WITH #4 REBAR 24" O.C. AND #4 DOWELS 24" O.C. INTO EXISTING SLAB. <sup>1</sup>/<sub>2</sub>" MATERIAL WITH SELF-LEVELING POLYURETHANE SEALANT, CONTINUOUS.</li> <li><sup>1</sup>/<sub>2</sub>" EXPANSION JOINT MATERIAL WITH SELF-LEVELING POLYURETHANE SEALANT CONCRETE POURS MEET.</li> </ol>



ID FASCIA.	<ol> <li>LP SMARTSIDE CEDAR TRIM (LP-2), BUILDING CORNERS TO MATCH SIDING (PNT-4), WINDOW AND DOOR TRIM TO BE FIELD PAINTED DARK BRONZE (PNT-3), REFER TO SHEET A-600.</li> <li>ADA ACCESSIBLE DOOR THRESHOLD.</li> <li>2X8 FASCIA, WRAP IN DARK BRONZE BREAK METAL TO MATCH GUTTERS.</li> </ol>	34. 35.	4" HONED INDIANA LIMES JOINT BETWEEN CAP AND CONTINUOUSLY AROUND F ‡" OVERSIZED MILD-STEE
JARDS, DARK BRONZE. TS OF SPAR URETHANE. A—002.	<ol> <li>22. GARAGE DOOR HEADER BY BUILDING SUPPLIER.</li> <li>23. LP SMARTSIDE CEDAR SHAKE SIDING (LP-3), REFER TO SHEET A-600.</li> <li>24. OVERHEAD GARAGE DOOR, REFER TO SHEET A-600.</li> <li>25. 6" CONCRETE BUILDING SLAB WITH #4 REBAR 24" O.C. BOTH DIRECTIONS OVER 15 MIL TAPE AND SEALED VAPOR BARRIER AND 6" COMPACTED SUBBASE, SMOOTH TROWEL FINISH.</li> </ol>	36. 37.	GALVANIZED WITH LOCK TO 02/A-402 FOR MORE MILD-STEEL COLUMN BAS COLUMNS, REFER TO 03/ <sup>1</sup> / <sub>2</sub> " X 10" ANCHOR BOLT
ES ONLY.	<ol> <li>WALL FINISH AS SCHEDULED, REFER TO SHEET A-600.</li> <li>METAL FLASHING, MATCH SOFFIT AND GUTTER COLOR.</li> <li>BACKER ROD AND POLYURETHANE SEALANT.</li> <li>6X6 ROUGH-SAWN DOUGLAS FIR COLUMN, STAIN WITH TWO (2) COATS TWP 116.</li> <li>HEAVY TIMBER, ROUGH-SAWN DOUGLAS FIR TRUSS, STAIN TWO (2) COATS TWP 116 WITH OVERSIZED METAL BRACKETS AS SHOWN, POWDER COAT BLACK, REFER TO SHEET A-402.</li> <li>SELF-ADHERED, 40MIL WATER AND ICE ROOFING UNDERLAYMENT OVER ENTIRE ROOF.</li> </ol>	38. 39. 40. 41.	2X6 OUTRIGGER EAVE, 24 6" THICK, THREE SIDED S ALL DIRECTIONS, 4'-0" DEEP, CAST-IN-PL DIRECTIONS. REFER TO I DRIP EDGE / GUTTER AP
WITH #5 REBAR, 12" 3 LEDGE, AS SHOWN. NCRETE GRAY.	<ol> <li>6" EXTERIOR CONCRETE SIDEWALK WITH #4 REBAR 24" O.C. BOTH DIRECTIONS OVER 6" SUBBASE UNDER ENTIRE BUILDING SLAB, BROOM FINISH.</li> <li>ROUND SIDE OUT GRANITE BOULDERS – THIN VENEER BY EDEN STONE, OR APPROVED EQUAL. MORTAR TO BE WHITE BASED ASTM C270, COLOR BUFF. REFER TO SHEET A-400.</li> </ol>		

![](_page_16_Figure_0.jpeg)

<ol> <li>IP SMARTSIDE CEDAR TRIM (LP-2), BUILDING CORNERS TO MATCH SIDING (PNT-4), WINDOW AND DOOR TRIM TO BE FIELD PAINTED DARK BRONZE (PNT-3), REFER TO SHEET A-600.</li> <li>AD A ACCESSIBLE DOOR THRESHOLD.</li> <li>2XB FASCIA, WRAP IN DARK BRONZE BREAK METAL TO MATCH GUTTERS.</li> <li>2XB FASCIA, WRAP IN DARK BRONZE BREAK METAL TO MATCH GUTTERS.</li> <li>2XB FASCIA, WRAP IN DARK BRONZE BREAK METAL TO MATCH GUTTERS.</li> <li>2XB FASCIA, WRAP IN DARK BRONZE BREAK METAL TO MATCH GUTTERS.</li> <li>2XB FASCIA, WRAP IN DARK BRONZE BREAK METAL TO MATCH GUTTERS.</li> <li>2XB FASCIA, WRAP IN DARK BRONZE BREAK METAL TO MATCH GUTTERS.</li> <li>2XB FASCIA, WRAP IN DARK BRONZE BREAK METAL TO MATCH GUTTERS.</li> <li>2XB FASCIA, WRAP IN DARK BRONZE BREAK METAL TO MATCH GUTTERS.</li> <li>2XB FASCIA, WRAP IN DARK BRONZE BREAK METAL TO MATCH GUTTERS.</li> <li>2XB FASCIA, WRAP IN DARK BRONZE BREAK METAL TO MATCH GUTTERS.</li> <li>2XB FASCIA, WRAP IN DARK BRONZE BREAK METAL TO MATCH GUTTERS.</li> <li>3YB ASCIE CEDAR SHAKE SIDING (LP-3), REFER TO SHEET A-600.</li> <li>3YB CONCRETE BUILDING SLAB WITH #4 REBAR 24" O.C. BOTH DIRECTIONS OVER 15 MIL TAPE AND SEALED VAPOR BARRIER AND 6" COMPACTED SUBBASE TO A-600.</li> <li>3YB ASCHER DOU AND POLYURETHANE SEALANT.</li> <li>4XB BACKER ROD AND POLYURETHANE SEALANT.</li> <li>4XB BACKER ROD AND POLYURETHANE SEALANT.</li> <li>4XB CACKER ROD AND POLYURETHANE SEALANT.</li> <li>4XB CACKER ROD AND POLYURETHANE SEALANT.</li> <li>4XB ASCKER ROD AND POLYURETHANE SO SHOWN, NOWDER COAT BLACK, REFER TO SHEET A-402.</li> <li>4YB WITH #5 REBAR, 12"</li> <li>4YB CREAR, 12"</li> <l< th=""><th></th><th>KEYNOIES</th><th></th></l<></ol>		KEYNOIES	
MORTAR TO BE WHITE BASED ASTM C270 COLOR BUFE REFER TO SHEET A-400	D FASCIA. ARDS, DARK BRONZE. S OF SPAR URETHANE. A-002. ES ONLY. WITH #5 REBAR, 12" LEDGE, AS SHOWN. NCRETE GRAY.	<ol> <li>I.P. SMARTSIDE CEDAR TRIM (LP-2), BUILDING CORNERS TO MATCH SIDING (PNT-4), WINDOW AND DOOR TRIM TO BE FIELD PAINTED DARK BRONZE (PNT-3), REFER TO SHEET A-600.</li> <li>ADA ACCESSIBLE DOOR THRESHOLD.</li> <li>2X8 FASCIA, WRAP IN DARK BRONZE BREAK METAL TO MATCH GUTTERS.</li> <li>GARAGE DOOR HEADER BY BUILDING SUPPLIER.</li> <li>I.P. SMARTSIDE CEDAR SHAKE SIDING (LP-3), REFER TO SHEET A-600.</li> <li>OVERHEAD GARAGE DOOR, REFER TO SHEET A-600.</li> <li>OVERHEAD GARAGE DOOR, REFER TO SHEET A-600.</li> <li>G' CONCRETE BUILDING SLAB WITH #4 REBAR 24" O.C. BOTH DIRECTIONS OVER 15 MIL TAPE AND SEALED VAPOR BARRIER AND 6" COMPACTED SUBBASE, SMOOTH TROWEL FINISH.</li> <li>WALL FINISH AS SCHEDULED, REFER TO SHEET A-600.</li> <li>METAL FLASHING, MATCH SOFFIT AND GUTTER COLOR.</li> <li>BACKER ROD AND POLYURETHANE SEALANT.</li> <li>6X6 ROUGH-SAWN DOUGLAS FIR COLUMN, STAIN WITH TWO (2) COATS TWP 116.</li> <li>HEAVY TIMBER, ROUGH-SAWN DOUGLAS FIR TRUSS, STAIN TWO (2) COATS TWP 116 WITH OVERSIZED METAL BRACKETS AS SHOWN, POWDER COAT BLACK, REFER TO SHEET A-402.</li> <li>SELF-ADHERED, 40MIL WATER AND ICE ROOFING UNDERLAYMENT OVER ENTIRE ROOF.</li> <li>G'' EXTERIOR CONCRETE SIDEWALK WITH #4 REBAR 24" O.C. BOTH DIRECTIONS OVER 6" SUBBASE UNDER ENTIRE BUILDING SLAB, BROOM FINISH.</li> <li>ROUND SIDE OUT GRANITE BOULDERS - THIN VENEER BY EDEN STONE, OR APPROVED EQUAL. MORTAR TO BE WHITE BASED ASTM C270 COLOR BLIFF. REFER TO SHEFT A-400</li> </ol>	<ol> <li>4" HONED INDIANA LIMESTONE COLUMN CAP, BUFF COLORED. FULLY BED JOINT BETWEEN CAP AND CONCRETE BASE OVER 40MIL EPDM MEMBRANE. CONTINUOUSLY AROUND PERIMETER. CAP TO BE PRE-DRILLED FOR BOLT</li> <li><sup>1</sup>/<sub>4</sub>" OVERSIZED MILD-STEEL TRUSS BRACKET, POWDER COAT BLACK. ALL GALVANIZED WITH LOCK WASHERS. BRACKETS TO BE PLACED ON BOTH S TO 02/A-402 FOR MORE INFORMATION.</li> <li>MILD-STEEL COLUMN BASE PLATE, POWDER COATED BLACK. ANCHOR BO COLUMNS, REFER TO 03/A-402 FOR MORE INFORMATION.</li> <li><sup>1</sup>/<sub>4</sub>" X 10" ANCHOR BOLT 4'-0" O.C</li> <li>2X6 OUTRIGGER EAVE, 24" OVERHANG, BY BUILDING TRUSS MANUFACTURE</li> <li>6" THICK, THREE SIDED STOOP FOOTING, OVER FOOTINGS TO GO 4'-0" E ALL DIRECTIONS,</li> <li>4'-0" DEEP, CAST-IN-PLACE CONCRETE COLUMN FOOTING WITH #5 REBAI DIRECTIONS. REFER TO DETAILS 04 &amp; 05/A-300.</li> <li>41. DRIP EDGE / GUTTER APRON, COLOR TO MATCH GUTTERS AND FASCIA MI</li> </ol>

$06 \frac{\text{NOT USED}}{\text{scale: 1/4"} = 1'-0"}$	05
03 <u>DETAIL – ROOF GABLE OUTRIGGER</u> scale: 1 1/2" = 1'-0"	02
	<ol> <li>WINDOW AS SCHEDULED, REFER TO SHEET A-600.</li> <li>LP SMARTSIDE CEDAR LAPSIDING (LP-1), REFER TO SHEET A-600.</li> <li>26 GAUGE METAL VENTED V-SOFFIT PANEL. COLOR TO MATCH GUTTERS AN</li> <li>ROOF SHINGLES, REFER TO SHINGLE REQUIREMENTS ON SHEET A-600.</li> <li>DOOR AS SCHEDULED, REFER TO SHEET A-600.</li> <li>6" SEAMLESS GUTTER AND DOWNSPOUT SYSTEM WITH SHUR-FLO GUTTER GU.</li> <li>3X6 DOUGLAS FIR T&amp;G ROOF DECKING, SEAL UNDERSIDE WITH TWO (2) COAT REFER TO ROOF DECKING NARRATIVE FOR INSTALLATION INFORMATION SHEET</li> <li>2X BLOCKING AS REQUIRED.</li> <li>TRUSS TIE (SPECIFIED BY BUILDING MANUFACTURER).</li> <li>TRUSS TIE (SPECIFIED BY BUILDING MANUFACTURER).</li> <li>TRUSS (DESIGNED BY TRUSS MANUFACTURER), FOR DEMONSTRATION PURPOSI</li> <li>2X6 STUD WALL, REFER TO A-002 FOR WALL TYPES.</li> <li>BUILDING WRAP, PER BUILDING MANUFACTURER'S RECOMMENDATIONS.</li> <li>DOUBLE 2X6 TOP PLATE.</li> <li>§" OSB ROOF DECK SHEATHING.</li> <li>SHINGLE RIDGE VENT, BE SHINGLE MANUFACTURER.</li> <li>8" WIDE X 4'-0" DEEP, FORMED, CAST-IN-PLACE CONCRETE FOOTING WALL O.C. ALL DIRECTIONS. 8" WIDE SILL EXTENSION TO EXTEND 12" ABOVE SLAB</li> <li>½" EXPANSION JOINT WITH CONTINUOUS POLYURETHANE SEALANT, COLOR COI 18. 2X6 TREATED SILL PLATE.</li> </ol>

$02 \frac{ DE A  _{-1}}{ SCALE: 1 1/2" = 1'-0"}$	CG TRUSS OVERHANG	
	KEYNOTES	
RS AND FASCIA. ER GUARDS, DARK BRONZE. COATS OF SPAR URETHANE. SHEET A-002. JRPOSES ONLY. WALL WITH #5 REBAR, 12" SLAB LEDGE, AS SHOWN. DR CONCRETE GRAY.	<ol> <li>I.P. SMARTSIDE CEDAR TRIM (LP-2), BUILDING CORNERS TO MATCH SIDING (PNT-4), WINDOW AND DOOR TRIM TO BE FIELD PAINTED DARK BRONZE (PNT-3), REFER TO SHEET A-600.</li> <li>ADA ACCESSIBLE DOOR THRESHOLD.</li> <li>2X8 FASCIA, WRAP IN DARK BRONZE BREAK METAL TO MATCH GUTTERS.</li> <li>GARAGE DOOR HEADER BY BUILDING SUPPLIER.</li> <li>I.P. SMARTSIDE CEDAR SHAKE SIDING (LP-3), REFER TO SHEET A-600.</li> <li>OVERHEAD GARAGE DOOR, REFER TO SHEET A-600.</li> <li>6" CONCRETE BUILDING SLAB WITH #4 REBAR 24" O.C. BOTH DIRECTIONS OVER 15 MIL TAPE AND SEALED VAPOR BARRIER AND 6" COMPACTED SUBBASE, SMOOTH TROWEL FINISH.</li> <li>WALL FINISH AS SCHEDULED, REFER TO SHEET A-600.</li> <li>METAL FLASHING, MATCH SOFFIT AND GUTTER COLOR.</li> <li>BACKER ROD AND POLYURETHANE SEALANT.</li> <li>6X6 ROUGH-SAWN DOUGLAS FIR COLUMN, STAIN WITH TWO (2) COATS TWP 116.</li> <li>HEAVY TIMBER, ROUGH-SAWN DOUGLAS FIR TRUSS, STAIN TWO (2) COATS TWP 116 WITH OVERSIZED METAL BRACKETS AS SHOWN, POWDER COAT BLACK, REFER TO SHEET A-402.</li> <li>SELF-ADHERED, 40MIL WATER AND ICE ROOFING UNDERLAYMENT OVER ENTIRE ROOF.</li> <li>6" EXTERIOR CONCRETE SIDEWALK WITH #4 REBAR 24" O.C. BOTH DIRECTIONS OVER 6" SUBBASE UNDER ENTIRE BUILDING SLAB, BROOM FINISH.</li> <li>ROUND SIDE OUT GRANITE BOULDERS – THIN VENEER BY EDEN STONE, OR APPROVED EQUAL. MORTAR TO BE WHITE BASED ASTM C270, COLOR BUFF. REFER TO SHEET A-400.</li> </ol>	<ol> <li>4" HONED INDIANA LIMESTONE COLUMN CAP, BUFI JOINT BETWEEN CAP AND CONCRETE BASE OVER CONTINUOUSLY AROUND PERIMETER. CAP TO BE</li> <li>4" OVERSIZED MILD-STEEL TRUSS BRACKET, POWE GALVANIZED WITH LOCK WASHERS. BRACKETS TO TO 02/A-402 FOR MORE INFORMATION.</li> <li>MILD-STEEL COLUMN BASE PLATE, POWDER COAT COLUMNS, REFER TO 03/A-402 FOR MORE INFOR</li> <li>1" X 10" ANCHOR BOLT 4'-0" O.C</li> <li>2X6 OUTRIGGER EAVE, 24" OVERHANG, BY BUILDII</li> <li>6" THICK, THREE SIDED STOOP FOOTING, OVER F ALL DIRECTIONS,</li> <li>4'-0" DEEP, CAST-IN-PLACE CONCRETE COLUMN DIRECTIONS. REFER TO DETAILS 04 &amp; 05/A-300</li> <li>DRIP EDGE / GUTTER APRON, COLOR TO MATCH F</li> </ol>

![](_page_17_Figure_2.jpeg)

NOT USED scale: 1/4" = 1'-0"

![](_page_18_Figure_0.jpeg)

![](_page_19_Figure_0.jpeg)

R TO SHEET A-600. ER GUARDS, DARK BROWN. COATS OF SPAR URETHANE. SHFFT A-002.	17. 18. 19. 20.	6X6 ROUGH-SAWN DOUGLAS FIR COLUMN, STAIN WITH TWO (2) COATS TWP 116. HEAVY TIMBER, ROUGH-SAWN DOUGLAS FIR TRUSS, STAIN TWO (2) COATS TWP 116 WITH OVERSIZED METAL BRACKETS AS SHOWN, POWDER COAT BLACK, REFER TO SHEET A-402. SELF-ADHERED, 40MIL WATER AND ICE ROOFING UNDERLAYMENT OVER ENTIRE ROOF. $\frac{1}{4}$ " OVERSIZED MILD-STEEL TRUSS BRACKET, POWDER COAT BLACK. ALL HARDWARE TO BE $\frac{3}{4}$ " GALVANIZED WITH LOCK WASHERS BRACKETS TO BE PLACED ON BOTH SIDES OF TRUSS REFER TO	29. 30. 31. 32.	1X DOUGLAS FIR TRIM, WRAP BEAM/BLOCKING ENTIR 6" OF CLASS "A" GRAVEL UNDER ENTIRE STAGE AR 2X4 STUD WALL, FOR CLOSET AREA. 2X10 PRESSURE TREATED DECK EDGE BEAM BOTH S CARRIAGE BOLTS AT ALL POSTS. 2X6 TREATED BOX TREAD 2X6 BLOCKING 16" O C
SHELT A UUZ.	21.	02/A-402 FOR MORE INFORMATION. MILD-STEEL COLUMN BASE PLATE, POWDER COATED BLACK. ANCHOR BOLTS TO BE UNDER COLUMNS, REFER TO $03/A-402$ FOR MORE INFORMATION. $4^{\circ}$ x 6° ANCHOR BOLT $4^{\circ}-0^{\circ}$ 0.0	33. 34.	ATTACH TO DECK EDGE BEAM WITH $1 - \frac{1}{4}$ " X 5" HD SECURELY IN ROCK BENEATH. BUILDING WRAP, PER BUILDING MANUFACTURER'S RE
WALL WITH #5 REBAR, 12" O.C. B LEDGE, AS SHOWN.	22. 23. 24. 25.	DRIP EDGE / GUTTER APRON, COLOR TO MATCH GUTTERS AND FASCIA METAL. DOUBLE 2X6 RAFTER BEAM, CONNECT TO RIDGE BEAM, SCREW T&G DECKING TO RAFTER. DOUBLE 2X8 RIDGE BEAM, BOLT TO WALL AND CONNECT TO TIMBER TRUSS WITH BEAM SADDLE.	55.	INSTRUCTIONS.
(-4), WINDOW AND DOOR TRIM TO BAR, 12" O.C. ALL DIRECTIONS,	26. 27.	TREX SELECT DECKING (CDB-1) OR APPROVED EQUAL, ATTACH TO JOISTS WITH STAINLESS STEEL COUNTER-SUNK, FACE-SCREWED FASTENER SYSTEM, PER MANUFACTURER'S INSTALL INSTRUCTIONS. 2X10 PRESSURE TREATED JOISTS, 16" O.C., 2X10 PRESSURE TREATED TRANSVERSE BLOCKING EVERY 4'-0" O.C. HANG FROM BEAMS WITH EXTERIOR RATED JOIST HANGERS		
	28.	2X10 PRESSURE TREATED LEDGER BEAM, BOLT TO CONCRETE WALL/COLUMN WITH $2 - \frac{1}{2}$ " X 6" HDG WEDGE ANCHOR BOLTS 24" O.C.		

![](_page_20_Figure_0.jpeg)

![](_page_20_Figure_1.jpeg)

KEYNOTES
<ol> <li><sup>1</sup>/<sub>2</sub>" THICK STEEL COLUMN BASE PLATE WITH <sup>3</sup>/<sub>8</sub>" THICK VERTICAL CONNECTOR TONG 5.5" X <sup>1</sup>/<sub>2</sub>" THICK COLUMN PLATE CENTERED BEHIND STEEL VERTICAL BRACKET TO WOOD COLUMN ABOVE BOTTOM PLATE, WITH 2" DIAMETER HOLE FOR ANCHOR BC DETAIL 03/A-402, POWDER COAT BASE PLATE BLACK. <sup>3</sup>/<sub>4</sub>" X 16" LONG ANCHOR UNDER COLUMNS, EPOXY SET ANCHOR BOLTS INTO CONCRETE BASE, LEVEL PLAT</li> <li>6X6 ROUGH-SAWN DOUGLAS FIR COLUMN, STAIN WITH TWO (2) COATS TWP 116. PLATE WITH TWO (2) - <sup>3</sup>/<sub>4</sub>" DIAMETER, HOT-DIPPED GALVANIZED HEX-HEAD BOLT WASHERS BOTH SIDES, NUT AND LOCK WASHER.</li> <li>4X12 ROUGH-SAWN DOUGLAS FIR TRUSS BOTTOM CHORD, STAIN TWO (2) COATS TWI 5. 4X6 ROUGH-SAWN DOUGLAS FIR TRUSS TOP CHORD, STAIN TWO (2) COATS TWI 5. 4X6 ROUGH-SAWN DOUGLAS FIR TRUSS WEB, STAIN TWO (2) COATS TWI 6. <sup>1</sup>/<sub>4</sub>" OVERSIZED MILD-STEEL TRUSS BRACKET, POWDER COAT BLACK. ALL HARDW/ DIAMETER, HOT-DIPPED GALVANIZED HEX-HEAD BOLTS WITH FENDER WASHERS B AND LOCK WASHER. BRACKETS TO BE PLACED ON BOTH SIDES OF TRUSS.</li> <li>7. STEEL SADDLE FOR DOUBLE 2X8 RIDGE BEAM.</li> </ol>

![](_page_21_Picture_0.jpeg)

![](_page_21_Picture_1.jpeg)

![](_page_21_Picture_2.jpeg)

![](_page_21_Picture_3.jpeg)

![](_page_22_Figure_0.jpeg)

BA	ASE	NORTH WALL	NOC EA WA	SCHE	DULE	/EST /ALL	CEILING			NOTES				
	-	PLY-1 LP-1	FIN PLY LP	ISH FIN Y-1 PL' -1 LP	SH FI '-1 P -1 L	NISH LY-1 P-1	PLY-1 -	PRI	ME AND	PAINT TWO (2) COATS AL –	L PLYWOOD			
												ISULTANT:		
												O O		
	 FIN	ISH S	CHE	DULE										
RER IN	NFO PROL	DUCT NUMBER	R	DIMENSION		COLOR		FINIS	SH	COMMENTS				
		_		_		CLEAR		МАТ	TE	SILANE, SILOXANE OR S	SILICONATE	·.	1997) 	
		_		1/2"4X8		_		PNT	-1	SECURE TO TRUSSES	24" O.C.	TOF	CES UILDING 9-0034	
												VEN.	DUR( LLACE B IA 5031'	0 0
	INTER	- NOR DURATIC	N	1/2" – 4X8 –		- TBD		PNT FLA	-1 T	SECURE TO WALLS ' WOOD PRIMER AND 2X C	16" O.C. COATS PNT-1	ARTA	RESC CES - WA MOINES,	5.725.820 5.725.820
												<b>DEP</b>	<b>JRAL</b> NG SERVI H ST., DES	P: 51 F: 51
	38 SER 440 SEF	ES CEDAR T	EXT. IEXT.	- 11.84" 5.5" & 9.21	' PNT	- PNT-4 -3 & PN	↓T-4	-		SEE ROOFING NARF 2X COATS SW EXT. D WINDOW & DOOR TRIP	RATIVE DURATION M PNT-3	OWA	NGINEERI 502 E. 9TI	
	38 SER EX	T. DURATION	EXI.	_ 	COLOR M SW6152	PNT-4 MATCH D. SUPERIOF	BRONZE 8 BRONZE	SAT SAT	IN IN	2X COATS SW EXT. L WINDOW AND DOOF LAP SIDING AND BUILDIN	R TRIM		ш	
	V—GF	200VE VENTE - -	D	26GA 3X6 1" SQUARE	M#	ATCH FAS CLEAR DLAND BI	CIA	– SEMI–G	LOSS	ALL EAVES AND OVE TWO (2) COATS SPAR- DECK, STAIRS, AND	RHANGS -URETHANE RISERS		$\sim$	2
				-0										J
		KE IIN	20. W	-S VOOD WINDOW SUBMIT SHOP VINDOW DESIGI	FRAME / BI DRAWINGS FO	RICK MOL OR APPRO	DING, DVAL OF S WITH					ES		3317
ILL PL , AS AS SO FOR	LATE. SCHEDUL CHEDULEI EXTERIOF	ED. ). R DOORS.	E F 21. V V	XTERIOR POL' PAINT TWO (2) VOOD WINDOW VITH EXTERIOR	URETHANE ( COATS, EN STOP/DRAIN POLYURETH	CAULK, P TIRE WOO I PLANE, ANE CAU	RIME AND D FRAME. CAULK LK.					EDUL	S FOR:	10 INES, IA 50
WALL	COVERIN	IG, PAINT	22. <del>‡</del> C 23. V	CLEAR ACR CUSTOM WINDO VINDOW SILL, I	W FRAME. PART OF CU	SECURED	in Idow.					SCHI		DES N
DU 1e	JLE										]	NO		
THR	RESHOLD	Түре		FINISH	FIRE RATING LABEL	SET #	HARDWAR KEYSIDI	E E ROOM IBER		COMMENTS			DURTYAR	
01,	/A-600 _	F-1	DAF	RK BRONZE -		1	E>	(T. -	CHI 32	EXT. STEELCRAFT "L" SE	RIES K BRONZE	& ≶		
01,	- /A-600	F_1	DAF	- RK BRONZE		1	E)	- (T.	CHI 32	EXT. STEELCRAFT "L" SE	RIES	OCR		
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			NICL	QUANTI	Υ				COMMEN	TS		DRAWN BY	PROJECT NUMBER: 24-05-77-01	
L -600		- PNT-3	& PN	T-1 3	CUS	Tom Buil	.T WOOD V	VINDOWS V	WITH 1/4	" CLEAR ACRYLIC WINDOW	/S	CHK'D BY:	DATE: 11.07.2023	
												SHEET NO:		n

![](_page_23_Picture_0.jpeg)

![](_page_23_Picture_1.jpeg)

UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN SHOWN BASED UPON INFORMATION OBTAINED FROM FIELD LOCATIONS BY UTILITY COMPANIES, AVAILABLE SURVEYS AND RECORDS. THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. IT IS ALSO POSSIBLE THAT THERE MAY BE OTHER UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES IN EXISTENCE THAT ARE NOT SHOWN. IT IS THE RESPONSIBILITY OF EACH INDIVIDUAL PARTY REFERENCING THIS PLAN TO DETERMINE THE EXACT LOCATION AND TYPE OF UNDERGROUND FACILITIES ON THE SITE. HAND EXCAVATE AT CRITICAL POINTS AS NECESSARY TO VERIFY LOCATIONS, SIZES, ELEVATIONS, FLOW LINES, ETC. IF A PROBLEM OR INTERFERENCE EXISTS,

### **GENERAL NOTES - ELECTRICAL**

- COORDINATE LOCATION/INSTALLATION OF ELECTRICAL WORK WITH ALL 1. OTHER TRADES. BEGIN INSTALLATION AND ROUGH-IN ONLY AFTER PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION IS COMPLETE. COORDINATE WITH BUILDING STRUCTURE, ARCHITECTURE, MECHANICAL SHEET METAL, ALL PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, EQUIPMENT ACCESS/CLEARANCE, ETC. REFER TO ALL CIVIL, LANDSCAPE ARCHITECTURAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT. CONTRACTOR IS RESPONSIBLE FOR REWORK OF INSTALLED EQUIPMENT RESULTING FROM INSUFFICIENT COORDINATION.
- 2. ELECTRICAL DRAWINGS ARE ONLY A PORTION OF THE COMPLETE SET OF PLANS AND CONTRACT DOCUMENTS. THE ELECTRICAL SCOPE OF WORK IS DEFINED BY THE COMPLETE SET OF CONTRACT DOCUMENTS. THIS INCLUDES BUT IS NOT LIMITED TO REFERENCING; CIVIL OR LANDSCAPE ARCHITECTURAL PLANS FOR DIMENSIONS AND DETAILS; EQUIPMENT PLANS FOR ROUGH-IN REQUIREMENTS.

### PROJECT DELIVERY NOTES - ELECTRICAL

THE DELIVERY METHOD FOR THIS PROJECT IS INDIVIDUAL SUB-1. CONTRACTS TO ONE GENERAL CONTRACTOR. THIS CONTRACTOR IS RESPONSIBLE FOR MEETING WITH ALL SUB-CONTRACTORS TO COORDINATE LOCATIONS AND INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. REWORK OF INSTALLED EQUIPMENT WILL BE AT CONTRACTORS EXPENSE.

### **CODE NOTES - ELECTRICAL**

- PROVIDE ELECTRICAL INSTALLATION IN ACCORDANCE WITH ALL LOCAL, 1. STATE, AND NATIONAL CODES.
- THE CURRENT ADOPTED EDITION OF THE ELECTRICAL CODE IS THE 2. STANDARD FOR THE ELECTRICAL INSTALLATION. VERIFY WITH LOCAL OFFICIALS WHEN PERMITS ARE OBTAINED. NOTIFY DESIGN TEAM OF ANY DESCREPANCIES BETWEEN THE PROJECT MANUAL OR DRAWINGS AND THE GOVERNING CODE.
- INSTALLATION SHALL FOLLOW REQUIREMENTS OF THE ADAAG -AMERICANS 3. WITH DISABILITIES ACT.
- REFER TO PROJECT MANUAL AND PROJECT CODE REVIEW SHEET FOR LIST 4 OF APPLICABLE CODES.

### **INSTALLATION NOTES - ELECTRICAL**

- BECOME FAMILIAR WITH EXISTING CONDITIONS PRIOR TO BID. 1.
- 2. INCREASE CONDUCTOR SIZES ON 20A 120V-1 PHASE CIRCUITS EXCEEDING 100 FEET TO CENTER OF LOAD TO ACCOUNT FOR VOLTAGE DROP.
- RACEWAYS AND BOXES ARE SHOWN DIAGRAMMATICALLY ONLY AND INDICATE 3. GENERAL AND APPROXIMATE LOCATIONS. LAYOUTS DO NOT ALWAYS SHOW THE TOTAL NUMBER OF RACEWAYS OR BOXES FOR THE CIRCUITS REQUIRED, NOR ARE THE LOCATIONS OF INDICATED RUNS INTENDED TO SHOW THE ACTUAL ROUTING OF THE RACEWAYS.
- PROVIDE A DEDICATED GREEN INSULATED GROUND CONDUCTOR TO ALL 4. DEVICES. DO NOT USE CONDUIT SYSTEM AS THE ONLY EQUIPMENT GROUNDING METHOD.
- DO NOT INSTALL BOXES BACK-TO-BACK ON OPPOSITE SIDES OF THE SAME 5. WALL. MAINTAIN MINIMUM OF 8" DISTANCE BETWEEN BOXES WHEREVER APPLICABLE.
- BALANCE PANEL LOADS DURING INSTALLATION. CIRCUIT NUMBERING SHOWN 6. ON PLANS MAY BE ADJUSTED TO ACCOMODATE.
- 7. PROVIDE TYPED PANEL DIRECTORY AT PROJECT COMPLETION FOR NEW PANELS AND EXISTING PANELS WITH CIRCUITS MODIFIED AS A RESULT OF THIS PROJECT. USE OWNER'S CURRENT ROOM NUMBERS AND EQUIPMENT NAMES.
- CONTRATOR IS RESPONSIBLE FOR OPENINGS IN WALLS, FLOORS, CEILINGS, 8. AND ROOFS THAT ARE REQUIRED TO COMPLETE THEIR SCOPE OF WORK. SEAL PENETRATIONS IN ACCORDANCE WITH THE RATING OF THE AFFECTED ASSEMBLY. REFER TO ARCHITECTURAL CODE PLAN FOR RATED WALLS, FLOORS, AND CEILINGS.

### **SITE NOTES - ELECTRICAL**

- UTILITIES SHOWN ON ELECTRICAL SITE PLAN ARE SCHEMATIC 1. ONLY. VERIFY ALL SITE CONDITIONS AND DIMENSIONS ON SITE PRIOR TO SUBMITTING BID AND ORDERING EQUIPMENT.
- REPAIR ALL AFFECTED SURFACES AND RESTORE TO EXISTING 2. CONDITIONS AT COMPLETION OF PROJECT.
- WARNING CALL BEFORE YOU DIG: LAW REQUIRES ANYONE 3. DOING EXCAVATION, FENCING, PLANTING OR DRILLING TO CALL 48 HOURS IN ADVANCE. HAND DIG WITHIN 18 INCHES OF ANY LOCATE MARK OR FLAG. ONE-CALL 811.

### **GENERAL SYMBOLS**

![](_page_23_Picture_28.jpeg)

KEYNOTE

SHEET REFERENCE DETAIL DRAWING REFERENCE TAG, SIM-SIMILAR, TYP-TYPICAL, OPP-OPPOSITE

### POWER SYMBOLS

G,W	SURFACE MOUNTED DUPLEX RECEPTACLE, GFCI AND WEATHERPROOF
G ₽	SURFACE MOUNTED DUPLEX RECEPTACLE, GFCI
Φ	CEILING MOUNTED DUPLEX RECEPTACLE
	GARAGE DOOR OPERATOR
۲	EQUIPMENT CONNECTION
	PANELBOARD - SURFACE MOUNTED
НН	HAND HOLE

### LIGHTING SYMBOLS

6	WALL MOUNTED LINEAR FIXTURE, SEE LIGHTING FIXTURE SCHEDULE
	EXTERIOR SURFACE MOUNTED LINEAR FIXTURE, SEE LIGHTING FIXTURE SCHEDUL
⊢⊶	INDUSTRIAL STRIP LIGHT FIXTURE, SEE LIGHTING FIXTURE SCHEDULE
다	EXTERIOR WALL PACK, SEE LIGHTING FIXTURE SCHEDULE
$\otimes$	RECESSED ROUND DOWNLIGHT, SEE LIGHTING FIXTURE SCHEDULE
$\varkappa$	CEILING MOUTNED FAN
<b>\$</b> a	SINGLE POLE SWITCH, WALL MOUNT +48", OR AS NOTED, LETTER INDICATES SWITCH LEG
<mark>3</mark> \$ <sup>3</sup> а	THREE-WAY SWITCH, WALL MOUNT +48", OR AS NOTED, LETTER INDICATES SWITCH LEG

### LIGHTING PLANS NOTATION KEY

![](_page_23_Figure_36.jpeg)

- UPPERCASE LETTERING INDICATES FIXTURE TYPE. REFER TO LUMINAIRE SCHEDULE - +## INDICATES FIXTURE MOUNTING HEIGHT FROM BOTTOM OF FIXTURE TO FINISHED FLOOR. COORDINATE ALL FIXTURE ELEVATIONS WITH ARCHITECTURAL RCP PRIOR TO ROUGH-IN AND SHOP SUBMITTALS. C - LOWERCASE LETTERING INDICATES SWITCH LEG.

![](_page_23_Figure_38.jpeg)

### SITE NOTES - ELECTRICAL

- UTILITIES SHOWN ON ELECTRICAL SITE PLAN ARE SCHEMATIC ONLY. VERIFY ALL SITE CONDITIONS AND DIMENSIONS ON SITE PRIOR TO SUBMITTING BID AND ORDERING EQUIPMENT.
- REPAIR ALL AFFECTED SURFACES AND RESTORE TO EXISTING 2. CONDITIONS AT COMPLETION OF PROJECT.
- WARNING CALL BEFORE YOU DIG: LAW REQUIRES ANYONE 3. DOING EXCAVATION, FENCING, PLANTING OR DRILLING TO CALL 48 HOURS IN ADVANCE. HAND DIG WITHIN 18 INCHES OF ANY LOCATE MARK OR FLAG. ONE-CALL 811.

### ELECTRICAL DEMOLITION NOTES

- 1 CONDITIONS AND MAJOR ELECTRICAL ITEMS. THEY ARE NOT TO BE CONSTRUED AS COMPLETE IN REPRESENTATION OF ACCESSORIES AND INCIDENTALS TO BE REMOVED, REPLACED, OR REWORKED. NOR SHOULD ACCESSIBILITY BE INFERRED. THE CONTRACTOR IS RESPONSIBLE TO FAMILIARIZE THEMSELVES WITH THE BUILDING, SITE AND EXISTING CONDITIONS, PRIOR TO THE SUBMITTING OF A BID FOR THIS PROJECT.
- 2. REMOVE ELECTRICAL FACILITIES AND CLEAR THE AREA TO RECEIVE THE NEW WORK TO BE PROVIDED UNDER THIS CONTRACT.
- THIS ELECTRICAL DEMOLITION DRAWING SHOWING EXISTING 3. CONDITIONS HAS BEEN PREPARED BASED ON FIELD OBSERVATION AND ORIGINAL DRAWINGS. ADDITIONAL COMPONENTS MAY EXIST WHICH DO NOT SHOW, AND SUCH ITEMS SHALL BE DEALT WITH IN A MANNER SIMILAR TO THOSE ITEMS WHICH DO SHOW. CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH EXISTING CONDITIONS.

4

5.

7.

- CONDUITS, BOXES, ETC., SHALL BE REMOVED AS REQUIRED BY WALL AND CEILING DEMOLITION AND REMOVALS. WIRING SHALL BE REMOVED. ALL WIRING FOR THE REMODELED AREAS SHALL BE NEW UNLESS SPECIFICALLY NOTED OTHERWISE. ALL BRANCH CIRCUITS TO BE DISCONNECTED SHALL BE IDENTIFIED AS TO LOCATION OR ITEM SERVED BEFORE DISCONNECTING. CIRCUITS SERVING AREAS BEYOND THE IMMEDIATE DEMOLITION AREA SHALL BE MAINTAINED.
- CONTRACTOR SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH EXISTING ELECTRICAL SYSTEM WHICH WILL BE AFFECTED BY THE DEMOLITION WORK. CONTRACTOR SHALL OBTAIN PERMISSION FROM OWNER'S REPRESENTATIVE TO SHUT OFF SERVICES OR SYSTEMS WHICH MAY AFFECT OTHER AREAS BEYOND THE LIMITS OF THE IMMEDIATE DEMOLITION AREA. SUCH PERMISSION WILL BE GRANTED ONLY AFTER OWNER'S REPRESENTATIVE IS INFORMED OF THE REASON FOR AND DURATION OF THE SHUTDOWN AND IS SATISFIED THAT THE SHUTDOWN CAN BE MADE WITH AS LITTLE INCONVENIENCE TO OTHER AREAS AS POSSIBLE.
- PANELBOARDS, DISCONNECTS, FIXTURES, WIRING DEVICES, SIGNAL DEVICES, ETC., SHOWN ON PLANS SHALL BE REMOVED UNLESS NOTED OTHERWISE. REMOVAL SHALL BE DONE IN A TIMELY MANNER IN ACCORDANCE WITH THE GENERAL DEMOLITION WORK. COORDINATE WITH THE OWNER AND OTHER CONTRACTORS.
- ABBREVIATIONS:
  - E EXISTING ITEM TO REMAIN **ER - NEW LOCATION OF EXISTING ITEM** N - NEW ITEM IN EXISTING LOCATION R - EXISTING ITEM TO BE REMOVED, PATCH AND/OR
  - COVER RN - REPLACE EXISTING WITH NEW

DEMOLITION DRAWINGS PRESENT LAYOUT OF EXISTING

RR - EXISTING ITEM TO BE REMOVED AND RELOCATED

![](_page_24_Figure_25.jpeg)

ELECTRICAL SITE REFERENCE AND DEMOLITION PLAN

![](_page_25_Figure_0.jpeg)

![](_page_25_Figure_1.jpeg)

### NOTES:

- 1. ALL FIXTURES SHALL BE U.L. OR SIMILARLY LISTED. 2. INCLUDE A MINIMUM 1 YEAR WARRANTY FOR LIGHTING FIXTURES, WHERE NOT OTHERWISE SPECIFIED.
- 3. REFER TO ARCHITECTURAL DOCUMENTS FOR EXACT MOUNTING LOCATIONS, DETAILS, AND CONFIGURATIONS OF ALL LUMINAIRES. IF ARCHITECTURAL DRAWINGS DO NOT CLARIFY EXACT MOUNTING
- LOCATION OR DETAIL, ISSUE AN RFI FOR ARCHITECT TO SPECIFICALLY CLARIFY PRIOR TO FIXTURE ROUGH-IN. 4. VERIFY COMPATIBILITY OF LIGHT FIXTURES WITH CEILING MATERIAL, ADJACENT CONSTRUCTION, AND ADJACENT FINISHES PRIOR TO SHOP DRAWINGS SUBMITTAL
- NOTIFY THE ARCHITECT OF ANY CONFLICTS WITH THE PROPOSED INSTALLATION. 5. CONTRACTOR IS RESPONSIBLE FOR ALL MISCELLANEOUS HARDWARE NECESSARY TO INSTALL AND SUPPORT THE LUMINAIRES.
- 6. AIM AND TARGET ADJUSTABLE INTERIOR AND EXTERIOR LIGHT FIXTURES UNDER THE OBSERVATION AND IN COMPLIANCE WITH RECOMMENDATIONS OF THE ARCHITECT. INCLUDE LABOR AND MATERIAL COSTS MADE NECESSARY BY THIS REQUIREMENT.
- 7. CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND FILLING OUT ALL UTILITY REBATE FORMS FOR OWNER.

											DESIGNED BY: DLB
<b>TYPE</b>	MANUFACTURER	MODEL	DESCRIPTION	<b>FINISH</b>	<b>LUMENS</b>	<u>CRI</u>	DRIVER TYPE	SOURCE-CCT	VOLTAGE	LOAD-VA	APPROVED EQUALS
F1	CURRENT LIGHTING	HEM-4'-40K-ML-RFA-E-U-XEHC	SURFACE MOUNT UTILITY FIXTURE 4' LENGTH, CURVED RIBBED LENS, GENERAL DISTRIBUTION, RATED TO -40 C DEGREES, IP65 RATED	WHITE	1500	80	NON-DIMMING	LED-3000K	120 V	47 VA	LITHONIA LIGHTING, METALUX, OR AS APPROVED BY ENGINEER
F2	KELVIX LIGHTING	Z7AC-4-15-C-X-30-50-L3-BK-LV // Z-7AC-FML-20 // Z-7AC-FMC-1 // Z-7AC-END-DMX	EXTERIOR RATED SURFACE MOUNT NOMINAL 3" X 3" WIDE LINEAR LUMINAIRE, 50 DEGREE RGBW FLOOD, ENCLOSED AND GASKETED LENS, IP66 RATED, PROVIDE LEADER CABLE, JUMPER CABLES, END CAP, AND 2" STAND OFF MOUNTING ACCESSORIES FOR A COMPLETE SYSTEM AND INSTALLATION. COORDINATE DMX CONTROLLER LOCATIONS WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN. PROVIDE INITIAL STARTUP AND PROGRAM (8) COLOR AND STATIC WHITE SCENES AS SELECTED BY OWNER.	BLACK	2400	80	DMX DIMMABLE	LED-RGBW	120 V	60 VA	LLI+FRESCO CONTROL, LUMINII, ACROLYTE, Q-TRAN, CORE, OR AS APPROVED BY ENGINEER
F3	LITHONIA LIGHTING	BLWP2-8L-PDSM-GZ10-LP830	WALL MOUNT UTILITY FIXTURE 2' LENGTH, PRISMATIC LENS, WIDE DISTRIBUTION	WHITE	800	80	0-10V DIMMING TO 10%	LED-3000K	120 V	17 VA	HUBBELL, METALUX, OR AS APPROVED BY ENGINEER
F4	COOPER HALO	HOUSING HC5-07-D010 // ENGINE HM6-0525-830 // TRIM 61-WD-WB	RECESSED 6" ROUND BAFFLE DOWNLIGHT, WET LOCATION UNDER CANOPY, WHITE TRIM RING	WHITE	750	80	NON-DIMMING	LED-3000K	120 V	8 VA	GOTHAM, PRESCOLITE, OR AS APPROVED BY ENGINEER
W2	CURRENT LIGHTING	TRP1-24L-15-3K8-4W-UNV-DBT-EH	EXTERIOR RATED TRAPEZOIDAL WALL PACK, FULL CUT-OFF OPTICS, COLD-WEATHER RATED EMERGENCY BATTERY PACK, IP66 RATED	BRONZE	700	80	NON-DIMMING	LED-3000K	120 V	15 VA	LITHONIA LIGHTING, MCRAW EDISON, OR AS APPROVED BY ENGINEER

### BRANCH PANEL: P1

### VOLTAGE: 120/240 SINGLE PHASES: 1 **WIRES:** 3

### SCCR RATING: 10,000 MAINS TYPE: MCB MAINS RATING: 100 A MAIN BREAKER: 100 A

### NOTES:

CIRCUIT DESCRIPTION	P	AMP	CKT NO		Α		В	CKT NO	AMP	Р	CIRCUIT DESCRIPTION
GARAGE DOOR	1	20 A	1	920	920			2	20 A	1	GARAGE DOOR
ARCHERY RECEPTACLES	1	20 A	3			720	720	4	20 A	1	ARCHERY RECEPTACLES
ARCHERY LIGHTING	1	20 A	5	763	0			6	20 A	1	SPARE
FAN	1	20 A	7			100	0	8	20 A	1	SPARE
SPARE	1	20 A	9	0	0			10	20 A	1	SPARE
SPARE	1	20 A	11			0	0	12	20 A	1	SPARE
				260	)3 VA	154	0 VA				

13 A

LEGEND:

"G" INDICATES GFCI TYPE BREAKER.

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED	PANEL	TOTALS
LIGHTING	763 VA	125.00%	954 VA		
Motor	100 VA	125.00%	125 VA	TOTAL CONN. LOAD:	4143 VA
POWER	1840 VA	100.00%	1840 VA	TOTAL EST. DEMAND:	4359 VA
RECEPTACLE	1440 VA	100.00%	1440 VA	TOTAL CONN.:	17 A
				TOTAL EST. DEMAND:	18 A

22 A

NOTES:

BRANCH PANEL: P	2										
LOCATION: ST	AGE BL	JILDING			VOLTAGE	: 120/240 \$	SINGLE		SCC	R RAT	<b>FING:</b> 10,000
SUPPLY FROM: PA	NEL P1				PHASES	: 1			MA	NNS T	YPE: MCB
MOUNTING: SI	IRFACE				WIRES	: 3			MAIN	S RAT	<b>FING:</b> 100 A
ENCLOSURE: T	PE 1								MAIN	BREA	<b>KER:</b> 50 A
'ES:											
CIRCUIT DESCRIPTION	Р	AMP	CKT NO		A		В	CKT NO	AMP	Р	CIRCUIT DESCRIPTION
CIRCUIT DESCRIPTION STAGE RECEPTACLES	<b>P</b>	<b>AMP</b> 20 A	<b>CKT</b> <b>NO</b> 1	540	<b>A</b> 137		B	CKT NO 2	<b>AMP</b> 20 A	<b>P</b>	CIRCUIT DESCRIPTION STAGE LIGHTING
CIRCUIT DESCRIPTION STAGE RECEPTACLES SITE RECEPTACLES	<b>P</b> 1	<b>AMP</b> 20 A 20 A	<b>CKT</b> <b>NO</b> 1 3	540	<b>A</b> 137	900	<b>B</b> 180	CKT           NO           2           4	<b>AMP</b> 20 A 20 A	<b>P</b> 1 1	CIRCUIT DESCRIPTION STAGE LIGHTING RECEPTACLE
CIRCUIT DESCRIPTION STAGE RECEPTACLES SITE RECEPTACLES CEILING CAMERA	<b>P</b> 1 1 1	<b>AMP</b> 20 A 20 A 20 A	CKT NO           1           3           5	540	A 137 180	900	B 180	CKT NO           2           4           6	AMP 20 A 20 A 20 A	<b>P</b> 1 1 1	CIRCUIT DESCRIPTION STAGE LIGHTING RECEPTACLE RECEPTACLE
CIRCUIT DESCRIPTION STAGE RECEPTACLES SITE RECEPTACLES CEILING CAMERA SPARE	P 1 1 1 1 1	AMP 20 A 20 A 20 A 20 A 20 A	CKT NO           1           3           5           7	540 180	A 137 180	900	B 180 0	CKT NO           2           4           6           8	AMP           20 A           20 A           20 A           20 A           20 A	<b>P</b> 1 1 1 1 1 1	CIRCUIT DESCRIPTION STAGE LIGHTING RECEPTACLE RECEPTACLE SPARE
CIRCUIT DESCRIPTION STAGE RECEPTACLES SITE RECEPTACLES CEILING CAMERA SPARE SPARE	P 1 1 1 1 1 1 1	AMP 20 A 20 A 20 A 20 A 20 A	CKT NO           1           3           5           7           9	540 180 0	A 137 180 0	900	B 180 0	CKT NO           2           4           6           8           10	AMP           20 A           20 A	P       1       1       1       1       1       1       1	CIRCUIT DESCRIPTION STAGE LIGHTING RECEPTACLE RECEPTACLE SPARE SPARE

LEGEND: "G" INDICATES GFCI TYPE BREAKER.

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED	PANEL	TOTALS	
LIGHTING	137 VA	125.00%	171 VA			
RECEPTACLE	1980 VA	100.00%	1980 VA	TOTAL CONN. LOAD:	2117 VA	
				TOTAL EST. DEMAND:	2151 VA	
				TOTAL CONN.:	9 A	
				TOTAL EST. DEMAND:	9 A	

9 A

9 A

NOTES:

### LIGHTING FIXTURE SCHEDULE

![](_page_26_Figure_26.jpeg)

- DIAGRAM INDICATES OVERALL LAYOUT OF ELECTRICAL Α. DISTRIBUTION SYSTEM. REFER TO FLOOR PLANS FOR EQUIPMENT LOCATIONS. USE COPPER CONDUCTORS UNLESS OTHERWISE INDICATED. Β. MATCH NEUTRAL CONDUCTOR SIZE TO THE PHASE C. CONDUCTORS UNLESS OTHERWISE NOTED.
- D. Ε.

![](_page_26_Figure_30.jpeg)

1 ONE-LINE DIAGRAM NOT TO SCALE

![](_page_26_Figure_32.jpeg)

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	300 4th S West Des Moi 50265	515-724-79
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CONSULTANT		ENGI
		ŠEÁL ŠEÁL
IOWA DEPARTMENT OF	NATURAL RESOURCES ENGINEERING SERVICES - WALLACE BUILDING	502 E. 9TH ST., DES MOINES, IA 50319-0034 P: 515.725.8200 F: 515.725.8202
	N N	
D DETAILS	RARD IMPROVEMENTS FOR:	DES MOINES, IA 50317
ONE-LINE AN	ARCHERY BUILDING AND COURT DNR FAIRG	3000 EAST GRAND AVE.
NO. BY DATE	REVISION	
DRAWN BY: DEB CHK'D BY: JTL	PROJECT NUMBER 24-05-77-01 DATE: 11.07.2023	
SHEET NO:	E-200	)

ALL WIRING SHALL BE IN RACEWAY AS NOTED. REFER TO SPECIFICATIONS FOR CONDUIT APPLICATION REQUIREMENTS. INSTALL UTILITY TRANSFORMER PAD, METERING EQUIPMENT, AND SERVICE ENTRANCE FEEDERS IN ACCORDANCE WITH