





ORNAMENTAL TREES	CODE	ROTANICAL / COMMON NAME
$\bigcirc$	CCJN	Carpinus caroliniana 'J.N. Strain' / J.N. Strain American Hornbeam
( î	CECA	Cercis canadensis 'Columbus' / Columbus Strain Eastern Redbud
$\bigotimes$	МААМ	Maackia amurensis / Amur Maackia
OVERSTORY DECIDUOUS TREES	CODE	BOTANICAL / COMMON NAME
$\bigcirc$	ACMM	Acer miyabei 'Morton' / State Street™ Miyabe Maple
$\odot$	COPP	Celtis occidentalis 'Prairie Pride' / Prairie Pride Hackberry
$(\cdot)$	GIBI	Ginkgo biloba 'Autumn Gold' TM / Autumn Gold Maidenhair Tree
< · · · · · · · · · · · · · · · · · · ·	GBPS	Ginkgo biloba 'Princeton Sentry' / Princeton Sentry Maidenhair Tree
$(\cdot)$	GLTR	Gleditsia triacanthos inermis 'Shademaster' TM / Shademaster Locust
$\dot{\cdot}$	GYDE	Gymnocladus dioica 'Espresso' / Kentucky Coffeetree
$\odot$	PAMC	Platanus x acerifolia 'Morton Circle' / Exclamation!™ London Plane Tree
UPRIGHT EVERGREEN SHRUB	CODE	BOTANICAL / COMMON NAME
$\oplus$	тнос	Thuja occidentalis 'Emerald' / Emerald Arborvitae
	THTE	Thuja occidentalis 'Techny' / Techny Arborvitae
DECIDUOUS SHRUBS	CODE	BOTANICAL / COMMON NAME
$\odot$	ARME	Aronia melanocarpa 'Morton' TM / Iroquis Beauty Black Chokeberry
(°)	CLAH	Clethra alnifolia 'Hummingbird' / Hummingbird Summersweet
	COSE	Cornus sericea 'Farrow' / Arctic Fire® Red Twig Dogwood
× ×	FOVB	Forsythia viridissima 'Bronxensis' / Bronx Forsythia
	HPDP	Hydrangea paniculata 'Dvp Pinky' TM / Pinky Winky Panicle Hydrangea
	HPLQ	Hydrangea paniculata 'Little Quick Fire' / Little Quick Fire Hydrangea
$\bigcirc$	SYPA	Syringa x 'SMNJRPI' TM / Bloomerang Dwarf Pink Lilac
$(\cdot)$	VDLJ	Viburnum dentatum 'KLMseventeen' ∕ Little Joe™ Arrowwood Viburnum
EVERGREEN SHRUBS	CODE	BOTANICAL / COMMON NAME
£	BUGV	Buxus x 'Green Velvet' / Green Velvet Boxwood
	JCPK	Juniperus chinensis 'Pfitzerana Kallays Compacta' / Kally Pfitzer Compact Juniper
****	JUCH	Juniperus chinensis 'Sea Green' / Sea Green Juniper
$\bigotimes$	JUMA	Juniperus sabina 'Mini—Arcadia' / Mini Arcadia Juniper
PERENNIALS & GRASSES	CODE	BOTANICAL / COMMON NAME
 	ALSU	Allium x 'Summer Beauty' / Summer Beauty Allium Aquilegia canadensis / Eastern Columbine
	ASAZ	Aster azureus / Sky Blue Aster
	СААС	Calamagrostis x acutiflora 'Karl Foerster' / Karl Foerster Feather Reed Grass
0	CANE	Calamintha nepeta 'Montrose White' / Montrose White Catmint
$\odot$	ECPU	Echinacea purpurea 'PAS7Ø2917' / PowWow® Wild Berry Coneflower
See a second sec	LISK	Liatris spicata 'Kobold' / Kobold Spike Gayfeather
(÷	MNFI	Monarda fistulosa / Bergamot
O	PAVI	Panicum virgatum 'Shenandoah' / Shenandoah Switch Grass
and the second sec	PVNW	Panicum virgatum 'Northwind' / Northwind Switch Grass
$\oplus$	PNDT	Penstemon x 'Dark Towers' / Dark Towers Beardtongue
(+)	RUFU	Rudbeckia fulgida sullivantii 'Goldsturm' / Goldsturm Coneflower *
MAZ ZANA	scsc	Schizachyrium scoparium 'Prairie Blues' / Prairie Blues Little Bluestem *
*	SPHE	Sporobolus heterolepis 'Tara' / Prairie Dropseed

# PLANT SCHEDULE - STREET TREES S. PARK ST.

DIREET TREES	CODE	BUTANICAL / COMMON NAME	CONT	SIZE	
$\bigcirc$	CEOC	Celtis occidentalis Common Hackberry	B & B	2"Cal	1
$\bigcirc$	PLAM	Platanus x acerifolia 'Morton Circle' Exclamation!™ London Plane Tree	B & B	2"Cal	2
$\left( \cdot \right)$	ULNH	Ulmus x 'New Horizon' New Horizon Elm	B & B	2"Cal	2

## CONTRACTOR NOTES

 ALL LANDSCAPE AREAS TO RECEIVE SHREDDED HARDWOOD BARK MULCH UNLESS OTHERWISE SPECIFIED.
 SUBSURFACE UTILITIES HAVE BEEN INTENTIONALLY REMOVED FROM 10' SCALE SHEETS FOR PLAN LEGIBILITY. CONTRACTOR SHALL REFER TO L100 AND DETAILED CIVIL SHEETS FOR UTILITIES PRIOR TO PLANTING INSTALLATION.

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PLANT LIST	CODE	ROTANICAL / COMMON NAME
$\bigcirc$	CC/IN	Carpinus caroliniana '/N. Strain' / /N. Strain American Hornbeam
	CECA	Cercis canadensis 'Columbus' / Columbus Strain Fastern Redbud
	MAAM	Maackia amurensis / Amur Maackia
		Acer miyabel Morton / State Street " Miyabe Maple
$\underline{(\cdot)}$	COPP	Celtis occidentalis 'Prairie Pride' / Prairie Pride Hackberry
$\overline{(\cdot)}$	GIBI	Ginkgo biloba 'Autumn Gold' TM / Autumn Gold Maidenhair Tree
	GBPS	Ginkgo biloba 'Princeton Sentry' / Princeton Sentry Maidenhair Tree
$\overline{\mathbf{\cdot}}$	GLTR	Gleditsia triacanthos inermis 'Shademaster' TM / Shademaster Locust
$\bigcirc$	GYDE	Gymnocladus dioica 'Espresso' / Kentucky Coffeetree
$\odot$	PAMC	Platanus x acerifolia 'Morton Circle' ∕ Exclamation!™ London Plane Tree
IPRIGHT EVERGREEN SHRUB	CODE	BOTANICAL / COMMON NAME
	тнос	Thuja occidentalis 'Emerald' / Emerald Arborvitae
	THTE	Thuja occidentalis 'Techny' / Techny Arborvitae
ECIDUOUS SHRUBS	CODE	BOTANICAL / COMMON NAME
$(\cdot)$	ARME	Aronia melanocarpa 'Morton' TM / Iroquis Beauty Black Chokeberry
$\bigcirc$	CLAH	Clethra alnifolia 'Hummingbird' / Hummingbird Summersweet
$\bigoplus_{i=1}^{n}$	COSE	Cornus sericea 'Farrow' / Arctic Fire® Red Twig Dogwood
$\bigotimes$	FOVB	Forsythia viridissima 'Bronxensis' / Bronx Forsythia
$\bigcirc$	HPDP	Hydrangea paniculata 'Dvp Pinky' TM / Pinky Winky Panicle Hydrangea
	HPLQ	Hydrangea paniculata 'Little Quick Fire' / Little Quick Fire Hydrangea
$\bigcirc$	SYPA	Syringa x 'SMNJRPI' TM / Bloomerang Dwarf Pink Lilac
$\overline{\mathbf{\cdot}}$	VDLJ	Viburnum dentatum 'KLMseventeen' ∕ Little Joe™ Arrowwood Viburnum
VERGREEN SHRUBS دستی	CODE	BOTANICAL / COMMON NAME
	BUGV	Buxus x "Green Velvet" / Green Velvet Boxwood
<u></u>	JCPK	Juniperus chinensis 'Pfitzerana Kallays Compacta' / Kally Pfitzer Compact Junipe
<u> </u>	JUCH	Juniperus chinensis 'Sea Green' / Sea Green Juniper
$(\mathcal{S})$	JUMA	Juniperus sabina 'Mini–Arcadia' / Mini Arcadia Juniper
<u>erennials &amp; Grasses</u>	ALSU	BUTANICAL / CUMMUN NAME
 	4004	Aquilegia canadensis / Fastern Columbine
 £3	ASAZ	Aster azureus / Sky Blue Aster
	CAAC	Calamagrostis x acutiflora 'Karl Foerster' / Karl Foerster Feather Reed Grass
0	CANE	Calamintha nepeta 'Montrose White' / Montrose White Catmint
$\odot$	ECPU	Echinacea purpurea 'PAS7Ø2917' / PowWow® Wild Berry Coneflower
ŝŝ	LISK	Liatris spicata 'Kobold' / Kobold Spike Gayfeather
$\oplus$	MNFI	Monarda fistulosa / Bergamot
Julie State	PAVI	Panicum virgatum 'Shenandoah' / Shenandoah Switch Grass
	PVNW	Panicum virgatum 'Northwind' / Northwind Switch Grass
$\oplus$	PNDT	Penstemon x 'Dark Towers' / Dark Towers Beardtongue
(+)	RUFU	Rudbeckia fulgida sullivantii 'Goldsturm' / Goldsturm Coneflower *
	scsc	Schizachyrium scoparium 'Prairie Blues' / Prairie Blues Little Bluestem *
*	SPHE	Sporobolus heterolepis 'Tara' / Prairie Dropseed

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		Thuja occidenta	niis 'Techny'				Min 6' toll	1 1				Cercis canade	ensis 'Columbus	.чтт б'
UOUS SHRUBS	CODE	Iechny Arborvito BOTANICAL / C	ae COMMON NAMI	Ē		CONT	SIZE	QTY		<u>/</u>		Columbus Str	ain Eastern Re	dbud
$\underbrace{\cdot}$	ARME	Aronia melanoc Iroquis Beauty	carpa 'Morton Black Chokei	n' TM berry		#5	Min. 24"	36			MAAM	Amur Maackia amui Amur Maackia		_
( • )	CLAH	Clethra alnifolia Hummingbird S	'Hummingbi `ummersweet	ird'		#5	Min. 24"	4	OVERSTORY DECT	w	ACMM	Acer miyabei	'Morton'	<u>.</u>
	COSE	Cornus sericea Arctic Fire® Rea	'Farrow' d Twig Dogw	ood		#7	Min. 36"	15		m		Celtis occiden	MIYADE MAPIE	ridaí
	HPDP	Hydrangea panı Pinky Winky Pa	iculata 'Dvp nicle Hydrang	Pinky' TM gea		#5	Min. 24"	1Ø	• بين		COPP	Prairie Pride	Hackberry	
	SYPA	Syringa x 'SMN Bloomerang Dw	IJRPI'TM arf Pink Lila	C		#5	Min. 24" ta	17 17			GIBI	Ginkgo biloba Autumn Gold	'Autumn Gold' Maidenhair Tre	TM e
FREEN SHRUBS	JCPK	Juniperus chine Kally Pfitzer Co	ensis 'Pfitzero ompact Junip	na Kallays Per	Compacta'	, , #5	Min. 24" wi	ide 1Ø			GBPS	Ginkgo biloba Princeton Ser	'Princeton Ser try Maidenhair	ntry' Tree
	JUCH	Juniperus chine Sea Green Juni	ensis 'Sea Gr iper	reen'		B & B	Min. 36" Wi	ide 12		$\overline{\boldsymbol{\mathcal{A}}}$	GLTR	Gleditsia triac	anthos inermis	'Shade
	JUMA	Juniperus sabin Mini Arcadia Ju	na 'Mini–Arca Iniper	ıdia'		#5	Min. 24" wi	ide 1Ø		$\sum_{n}$		Gymnocladus	dioica 'Espress	
VNIALS & GRASSES	CODE	BOTANICAL / C Allium x 'Sumn	COMMON NAMI	E		CONT	SIZE	QTY		لمح المح	GYDE	Kentucky Cofi	feetree	
3. S	CAAC	Summer Beauty Calamagrostis >	y Allium x acutiflora	'Karl Foerst	ter'	# 1	Min. 8 - 18	,			PAMC	Platanus x ac Exclamation!™	cerifolia 'Mortor London Plane	n Circle Tree
	CANF	Karl Foerster F Calamintha nep	eather Reed	Grass re White'		#1	Min 8"-18		STREET TREES	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	CODE	BOTANICAL /	COMMON NAME	
	ECPU	Montrose White Echinacea purp	Catmint ourea 'PAS70.	2917'		#1	Min 8"-18"	, <sub>25</sub>		- Solorian		Common Hac.	kberry	
Million and a second se	PAVI	Panicum virgati	um 'Shenana witch Crass	loah'		#1	Min. 8"-18'			J.	PLAM	Platanus x ac Exclamation!™	cerifolia 'Mortor ' London Plane	n Circle Tree
	SPHE	Sporobolus hete Prairie Dropsee	erolepis 'Tarc d	<i>י</i> ך'		#1	Min. 8"—18'	," 73		$\boldsymbol{\mathcal{G}}$	ULNH	Ulmus x 'New New Horizon	– Horizon' Elm	
								<b>`</b>	DECIDUOUS SHRU	JBS	CODE	BOTANICAL /	COMMON NAME	· TM
GUARANTEE: THE CONTRA PLANTS SHALL BE ALIVE A	ACTOR SHALL G	UARANTEE ALL PLA Y AND FLOURISHING	NTS THROUGH ( CONDITION AT	DNE (1) YEAR	AFTER ACCEP THE GUARANTE	TANCE BY THE	OWNER'S REPRES	SENTATIVE. SHALL			ARME	Iroquis Beauty Clethra alnifo	Black Choket	perry
	OWNER) ANY	PLANTS THAT ARE I	DEAD OR NOT IN	N A VIGOROUS	S THRIVING CON OWNER'S REPR	NDITION. REPL RESENTATIVE. R .ACE PLANTS D	ACEMENT PLANTS ESTORE BEDS AS AMAGED AT TIME	S SHALL BE S NECESSARY OF				Hummingbird Cornus serice	Summersweet a 'Farrow'	
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DUL		SE 2		-		GENERAL NOTES
	CODE	BOTANICAL / COMMON NAME	CONT	SIZE	QTY	GENERAL: ALL WORK IN TH     BE IN ACCORDANCE WITH LC     SHALL BE HELD HARMLESS
	CCJN	Carpinus caroliniana 'J.N. Strain' J.N. Strain American Hornbeam	B & B	1.5"Cal	6	BY THE OWNER/CONTRACTOR PLANS THAT MAY RESULT IN REGULATORY AGENCIES. LO CONSTRUCTION. THE CONTR ANY DAMAGE DONE TO UTIL
	CECA	Cercis canadensis 'Columbus' Columbus Strain Eastern Redbud	B & B	Multi-Stem	2	1-800-242-8511 FOR UTIL PRIOR TO DIGGING. HAND NEAR EXISTING UTILITIES. PF OTHER TRADES. CONTRACTO PI ANT MATERIALS FOR REVI
	MAAM	Maackia amurensis Amur Maackia	B & B	2.5"Cal	5	PLACEMENT AND SHALL COORESTORATION WITH THE GRA
TREES	CODE	BOTANICAL / COMMON NAME	CONT	SIZE	QTY	2. DELIVERY AND HANDLING: DO THAN CAN BE PLANTED IN APPROPRIATE AND SECURE OWNER'S REPRESENTATIVE.
	ACMM	Acer miyabei 'Morton' State Street™ Miyabe Maple	B & B	2.5"Cal	5	MATERIALS FROM WIND AND LEGIBLE IDENTIFICATION LABI AND DO NOT PRUNE PRIOR SHALL BE PLANTED ON THE POSSIBLE PROTECT THE PL
	COPP	Celtis occidentalis 'Prairie Pride' Prairie Pride Hackberry	B & B	2.5"Cal	4	THEM IN A SHADED, SECUR WITH WET SOIL, MULCH, HA CONTRACTOR TO KEEP ALL TO PREVENT ROOT DESICCA GROWN STOCK FROM CONTA
	GIBI	Ginkgo biloba 'Autumn Gold' TM Autumn Gold Maidenhair Tree	B & B	2.5"Cal	1	NOT PICK UP CONTAINER O ALL PLANTS SHALL BE LIFTI THE CONTAINER OR BALL. F WEATHER AND SOIL CONDITI LOCALLY ACCEPTED BEST H
	GBPS	Ginkgo biloba 'Princeton Sentry' Princeton Sentry Maidenhair Tree	B & B	2.5"Cal	6	3. MATERIALS – PLANTS: ALL VERSION OF THE AMERICAN Z60.1. PLANTS SHALL BE AND NURSERY GROWN IN A
	GLTR	Gleditsia triacanthos inermis 'Shademaster' TM Shademaster Locust	B & B	2.5"Cal	6	<ul> <li>PRACTICES UNDER CLIMATIC LOCALITY OF THE PROJECT</li> <li>BE FRESHLY DUG (DURING SEASON). PLANTS SHALL E</li> <li>APPEARANCE AS TO BE UNIT</li> </ul>
	GYDE	Gymnocladus dioica 'Espresso' Kentucky Coffeetree	B & B	2.5"Cal	4	COMPACTNESS, AND SYMMET VIGOROUS, WELL BRANCHED AND FREE OF DISEASE AND LARVAE). THEY SHALL HAVI SYSTEMS AND SHALL BE FR
	PAMC	Platanus x acerifolia 'Morton Circle' Exclamation!™ London Plane Tree	B & B	2.5"Cal	1	CONDITIONS THAT WOULD PI MORTALITY. PLANTS SHALL E TYPICAL GROWTH HABITS AN FREE OF INJURY. PARKWAY
	CODE	BOTANICAL / COMMON NAME	CONT	SIZE	QTY	GROUND TO ALLOW ADEQUA
	CEOC	Celtis occidentalis Common Hackberry	B & B	2"Cal	1	ANY INJURIES THAT OCCURF DOUBLE LEADERS, DEAD BR DURING THE PLANTING PROC BE THE ONLY PRUNING ALL
	PLAM	Platanus x acerifolia 'Morton Circle' Exclamation!™ London Plane Tree	B & B	2"Cal	2	TREE CARE OPERATIONS, AN WITH NAA GUIDELINES. DO ACCORDING TO STANDARD H OVER 3/4" IN DIAMETER AN THE INJURED CAMBIUM LAYE
	ULNH	Ulmus x 'New Horizon' New Horizon Elm	B & B	2"Cal	2	SMOOTH AND SHAPE WOUNE THE AREA WITH AN APPROV ANTISEPTIC TREE PAINT, IF PRUNE ANY OAK TREES DU
	CODE	BOTANICAL / COMMON NAME	CONT	SIZE	QTY	<ul> <li>OCTOBER.</li> <li>5. CLEANUP: THE WORK AREA</li> </ul>
	ARME	Aronia melanocarpa 'Morton' TM Iroquis Beauty Black Chokeberry	#5	Min. 24"	9	TIMES. DISPOSED OF EXCE WASTE MATERIALS. SOIL ANE MATERIALS, ANY REJECTED F RESULTING FROM ALL PLAN
	CLAH	Clethra alnifolia 'Hummingbird' Hummingbird Summersweet	#5	Min. 24"	39	AND REMOVE FROM THE PR SHALL THE ACCUMULATION ( ALLOWED UPON A PUBLIC F RESULT IN A PUBLIC SAFET
	COSE	Cornus sericea 'Farrow' Arctic Fire® Red Twig Dogwood	#7	Min. 36"	32	ALLOWED UPON ADJACENT F
	FOVB	Forsythia viridissima 'Bronxensis' Bronx Forsythia	#5	Min. 24"	36	APPROVED BY LANDSCAPE A     APPROVED BY LANDSCAPE A     T. CONTRACTOR TO VERIFY PLA     FOOTAGES OLIANTITIES SHOL
	HPLQ	Hydrangea paniculata 'Little Quick Fire' Little Quick Fire Hydrangea	#5	Min. 24"	16	
	SYPA	Syringa x 'SMNJRPI' TM Bloomerang Dwarf Pink Lilac	<i>#5</i>	Min. 24" tall	16	1. MATERIALS – PLANTING MIX SHRUBS, PERENNIALS AND BACKEILLED WITH TWO (2)
	VDLJ	Viburnum dentatum 'KLMseventeen' Little Joe™ Arrowwood Viburnum	#5	Min. 36"	19	ONE (1) PART COMPOST. PRIOR TO INSTALLATION.
	CODE	BOTANICAL / COMMON NAME Buxus x 'Green Velvet'	CONT #5	SIZE	QTY 21	A LOCAL SOURCE, FREE FR DIAMETER, AND FREE FROM MATERIALS. TOPSOIL SHAL
	JCPK	Green Velvet Boxwood Juniperus chinensis 'Pfitzerana Kallays Compacta'	#5	Min 24" wide	.37	TOPSOIL AND PLANTING SOI CONFORMANCE WITH THESE TO MEET THESE SPECIFICAT OWNER'S REPRESENTATIVE I
		Juniperus chinensis 'Sea Green'	R & R	Min 36" Wido	2	LANDSCAPE AREAS PER SO 3. MATERIALS – SHREDDED H
		Sea Green Juniper Juniperus sabina 'Mini–Arcadia'		Min. 56 Wiae	2	AREAS LABELED ON PLAN S SHREDDED HARDWOOD BAR CONSISTENT DEPTH OF 3-II MULCH SIZE & COLOR TO E
<u></u>		Mini <sup>'</sup> Arcadia Juniper	#5	Min. 24" wide	62 0TV	REPRESENTATIVE PRIOR TO ACCORDANCE WITH APPLICA REQUIREMENTS. SHREDDED
	ALSU	Allium x 'Summer Beauty'	#1	Min. 8"-18"	92	4. MATERIALS – TREE & SHRU
	AQCA	Aquilegia canadensis Fastern Columbine	#1	Min 8"-18"	42	<ul> <li>PLANTED IN SEEDED LAWN</li> <li>4' DIAMETER SHREDDED HA</li> <li>TO A CONSISTENT DEPTH O</li> <li>INSTALLED WITH A 5" DEPT</li> </ul>
	ASAZ	Aster azureus Sky Blue Aster	#1	Min 8"-18"	71	DEGREES INTO SOIL AT A S     TREE PLANTING. A PRE-EM     WEED-PREVENTER SHOULD     TREE RING AS WELL AS TO     TREE RING AS WELL AS TO
	CAAC	Calamagrostis x acutiflora 'Karl Foerster' Karl Foerster Feather Reed Grass	#1	Min. 8"-18"	48	5. MATERIALS – ALUMINUM ED ALUMINUM EDGING, MILL FIN
	CANE	Calamintha nepeta 'Montrose White' Montrose White Catmint	#1	Min. 8"-18"	6	
	ECPU	Echinacea purpurea 'PAS7Ø2917' PowWow® Wild Berry Coneflower	#1	Min 8"-18"	81	1. MATERIALS – TURFGRASS S ON PLAN AS SUCH, SHALL
	LISK	Liatris spicata 'Kobold' Kobold Spike Gayfeather	#1	Min. 8"-18"	32	<ul> <li>CARPET'S "MADISON PARKS" APPROVED BY THE OWNER'S MANUFACTURER'S RECOMME SEED, ANNUAL RYE SHALL</li> </ul>
	MNFI	Monarda fistulosa Bergamot	#1	Min 8"-18"	19	A RATE OF 1 1/2 LBS PER MULCH PER MANUFACTURER CERTIFIED NOXIOUS WEED S
	PAVI	Panicum virgatum 'Shenandoah' Shenandoah Switch Grass	#1	Min. 8"-18"	39	_
	PVNW	Panicum virgatum 'Northwind' Northwind Switch Grass	#1	Min 8"-18"	117	_
	PNDT	Penstemon x 'Dark Towers' Dark Towers Beardtongue	#1	Min 8"-18"	83	-
	RUFU	Rudbeckia fulgida sullivantii 'Goldsturm' Goldsturm Coneflower *	#1	Min. 8"-18"	93	-
	SCSC	Schizachyrium scoparium 'Prairie Blues' Prairie Blues Little Bluestern *	#1	Min. 8"-18"	1Ø2	_
	SPHE	Sporobolus heterolepis 'Tara' Prairie Dropseed	#1	Min. 8"-18"	52	-

### CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE DONE TO UTILITIES. CONTRACTOR MUST CALL 1-800-242-8511 FOR UTILITY LOCATIONS AT LEAST THREE DAYS PRIOR TO DIGGING. HAND DIG AND INSTALL ALL PLANTS THAT ARE NEAR EXISTING UTILITIES. PROTECT PREVIOUSLY INSTALLED WORK OF OTHER TRADES. CONTRACTOR IS RESPONSIBLE FOR STAKING THE PLANT MATERIALS FOR REVIEW BY OWNER PRIOR TO DIGGING AND PLACEMENT AND SHALL COORDINATE ALL FINE GRADING AND RESTORATION WITH THE GRADING CONTRACTOR. 2. DELIVERY AND HANDLING: DO NOT DELIVER MORE PLANT MATERIALS THAN CAN BE PLANTED IN ONE DAY, UNLESS ADEQUATE, APPROPRIATE AND SECURE STORAGE IS PROVIDED AND APPROVED B OWNER'S REPRESENTATIVE. AT ALL TIMES, PROTECT ALL PLANT MATERIALS FROM WIND AND DIRECT SUN. DELIVER PLANTS WITH LEGIBLE IDENTIFICATION LABELS. PROTECT PLANTS DURING DELIVERY AND DO NOT PRUNE PRIOR TO DELIVERY. ALL TREES AND SHRUBS SHALL BE PLANTED ON THE DAY OF DELIVERY: IF THIS IS NOT POSSIBLE, PROTECT THE PLANT MATERIALS NOT PLANTED BY STORING THEM IN A SHADED, SECURE AREA, PROTECTING THE ROOT MASS WITH WET SOIL, MULCH, HAY OR OTHER SUITABLE MEDIUM. CONTRACTOR TO KEEP ALL PLANT MATERIALS ADEQUATELY WATERED

REGULATORY AGENCIES. LOCATE ALL UTILITIES PRIOR TO

- GROWN STOCK FROM CONTAINERS BEFORE TIME OF PLANTING. DO NOT PICK UP CONTAINER OR BALLED PLANTS BY STEM OR ROOTS. ALL PLANTS SHALL BE LIFTED AND HANDLED FROM THE BOTTOM OF THE CONTAINER OR BALL. PERFORM ACTUAL PLANTING ONLY WHEN WEATHER AND SOIL CONDITIONS ARE SUITABLE IN ACCORDANCE WITH LOCALLY ACCEPTED BEST HORTICULTURAL PRACTICES. 3. MATERIALS - PLANTS: ALL PLANTS SHALL CONFORM TO THE LATEST VERSION OF THE AMERICAN STANDARD FOR NURSERY STOCK ANSI Z60.1. PLANTS SHALL BE TRUE TO SPECIES AND VARIETY SPECIFIED AND NURSERY GROWN IN ACCORDANCE WITH GOOD HORTICULTURAL PRACTICES UNDER CLIMATIC CONDITIONS SIMILAR TO THOSE IN THE LOCALITY OF THE PROJECT FOR AT LEAST 2 YEARS. PLANTS SHALL BE FRESHLY DUG (DURING THE MOST RECENT FAVORABLE HARVEST SEASON). PLANTS SHALL BE SO TRAINED IN DEVELOPMENT AND APPEARANCE AS TO BE UNQUESTIONABLY SUPERIOR IN FORM. COMPACTNESS, AND SYMMETRY. PLANTS SHALL BE SOUND, HEALTHY VIGOROUS, WELL BRANCHED AND DENSELY FOLIATED WHEN IN LEAF, AND FREE OF DISEASE AND INSECTS (ADULT EGGS, PUPAE OR LARVAE). THEY SHALL HAVE HEALTHY, WELL-DEVELOPED ROOT SYSTEMS AND SHALL BE FREE FROM PHYSICAL DAMAGE OR OTHER
- CONDITIONS THAT WOULD PREVENT THRIVING GROWTH OR PREMATURE MORTALITY. PLANTS SHALL BE OF THE HIGHEST QUALITY, POSSESS TYPICAL GROWTH HABITS AND FORM FOR THEIR SPECIES AND BE FREE OF INJURY. PARKWAY TREES AND PARKING LOT TREES SHALL HAVE A MINIMUM BRANCHING HEIGHT OF SIX (6) FEET ABOVE THE GROUND TO ALLOW ADEQUATE VISUAL AND PHYSICAL CLEARANCE. 4. PRUNING: THE CONTRACTOR SHALL PRUNE ALL TREES AND REPAIR ANY INJURIES THAT OCCURRED DURING THE PLANTING PROCESS. DOUBLE LEADERS, DEAD BRANCHES, AND LIMBS DAMAGED OR BROKEN
- DURING THE PLANTING PROCESS, SHALL BE PRUNED. THIS SHALL BE THE ONLY PRUNING ALLOWED AT PLANTING. PRUNING SHALL CONFORM TO THE LATEST VERSION OF THE AMERICAN STANDARD FOR TREE CARE OPERATIONS, ANSI A300. PRUNE TREES IN ACCORDANCE WITH NAA GUIDELINES. DO NOT TOP TREES. PRUNE SHRUBS ACCORDING TO STANDARD HORTICULTURAL PRACTICES. ON CUTS OVER 3/4" IN DIAMETER AND BRUISES OR SCARS ON BARK, TRACE THE INJURED CAMBIUM LAYER BACK TO LIVING TISSUE AND REMOVE SMOOTH AND SHAPE WOUNDS SO AS NOT TO RETAIN WATER. TREAT THE AREA WITH AN APPROVED INCONSPICUOUS LATEX BASED ANTISEPTIC TREE PAINT, IF PRUNING OCCURS "IN SEASON". DO NOT PRUNE ANY OAK TREES DURING THE MONTHS FROM APRIL TO OCTOBER.
- 5. CLEANUP: THE WORK AREA SHALL BE KEPT SAFE AND NEAT AT ALL TIMES. DISPOSED OF EXCESS SOIL. REMOVE ALL CUTTINGS AND WASTE MATERIALS. SOIL AND BRANCHES. BIND AND WRAP THESE MATERIALS, ANY REJECTED PLANTS, AND ANY OTHER DEBRIS RESULTING FROM ALL PLANTING TASKS AND PROMPTLY CLEAN UP AND REMOVE FROM THE PROJECT SITE. UNDER NO CIRCUMSTANCES SHALL THE ACCUMULATION OF SOIL, BRANCHES OR OTHER DEBRIS E ALLOWED UPON A PUBLIC PROPERTY IN SUCH A MANNER AS TO RESULT IN A PUBLIC SAFETY HAZARD OR DAMAGE. LIKEWISE, UNDER NO CIRCUMSTANCES SHALL ANY DEBRIS OR INCIDENTAL MATERIALS BE ALLOWED UPON ADJACENT PRIVATE PROPERTY
- 6. ANY SUBSTITUTIONS IN PLANT TYPE, LOCATION, OR SIZE SHALL BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION. 7. CONTRACTOR TO VERIFY PLANT MATERIAL QUANTITIES AND SQUARE FOOTAGES. QUANTITIES SHOWN ON PLAN TAKE PRECEDENCE OVER THOSE ON SCHEDULE.

# LANDSCAPE MATERIAL NOTES

- MATERIALS PLANTING MIXTURE: ALL HOLES EXCAVATED FOR TREES SHRUBS, PERENNIALS AND ORNAMENTAL GRASSES SHALL BE BACKFILLED WITH TWO (2) PARTS TOPSOIL, ONE (1) PART SAND AND ONE (1) PART COMPOST. SOIL MIXTURE SHALL BE WELL BLENDED PRIOR TO INSTALLATION.
- 2. MATERIALS TOPSOIL: TOPSOIL TO BE CLEAN, FRIABLE LOAM FROM A LOCAL SOURCE, FREE FROM STONES OR DEBRIS OVER 3/4" IN DIAMETER, AND FREE FROM TOXINS OR OTHER DELETERIOUS MATERIALS. TOPSOIL SHALL HAVE A pH VALUE BETWEEN 6 AND 7 TOPSOIL AND PLANTING SOIL SHALL BE TESTED TO ENSURE CONFORMANCE WITH THESE SPECIFICATIONS AND SHALL BE AMENDED TO MEET THESE SPECIFICATIONS. PROVIDE TEST RESULTS TO OWNER'S REPRESENTATIVE PRIOR TO PLACEMENT. DO NOT PLACE FROZEN OR MUDDY TOPSOIL. APPLY SOIL AMENDMENTS TO ALL LANDSCAPE AREAS PER SOIL TEST.
- 3. MATERIALS SHREDDED HARDWOOD BARK MULCH: ALL PLANTING AREAS LABELED ON PLAN SHALL RECEIVE CERTIFIED WEED FREE SHREDDED HARDWOOD BARK MULCH INSTALLED TO A MINIMUM AND CONSISTENT DEPTH OF 3-INCHES. SHREDDED HARDWOOD BARK MULCH SIZE & COLOR TO BE APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION. FERTILIZER SHALL BE IN ACCORDANCE WITH APPLICABLE LOCAL, COUNTY AND STATE REQUIREMENTS. SHREDDED HARDWOOD BARK MULCH AREAS SHALL NOT RECEIVE WOVEN WEED BARRIER FABRIC.
- 4. MATERIALS TREE & SHRUB RINGS: ALL TREES AND/OR SHRUBS PLANTED IN SEEDED LAWN AREAS TO BE INSTALLED WITH A MINIMUM 4' DIAMETER SHREDDED HARDWOOD BARK MULCH TREE RING SPREAD TO A CONSISTENT DEPTH OF 3-INCHES. ALL TREE RINGS SHOULD BE INSTALLED WITH A 5" DEPTH SHOVEL CUT EDGE, ANGLED 45 DEGREES INTO SOIL AT A 5' DIAMETER ABOUT THE CENTER OF THE TREE PLANTING. A PRE-EMERGENT GRANULAR HERBICIDE WEED-PREVENTER SHOULD BE MIXED WITH MULCH USED TO INSTALL TREE RING AS WELL AS TOPICALLY APPLIED TO COMPLETED INSTALLATION OF TREE RING.
- 5. MATERIALS ALUMINUM EDGING: EDGING SHALL BE 1/8" X 4", ALUMINUM EDGING, MILL FINISH. OWNER'S REPRESENTATIVE SHALL APPROVE PRODUCT SPECIFICATION PROVIDED BY LANDSCAPE CONTRACTOR.

# **SEEDING NOTES**

. MATERIALS - TURFGRASS SEED: DISTURBED LAWN AREAS LABELED ON PLAN AS SUCH, SHALL RECEIVE 6" OF TOPSOIL AND EARTH CARPET'S "MADISON PARKS" GRASS SEED, OR EQUIVALENT AS APPROVED BY THE OWNER'S REPRESENTATIVE, INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. IN ADDITION TO TURFGRASS SEED, ANNUAL RYE SHALL BE APPLIED TO ALL DISTURBED AREAS AT A RATE OF 1 1/2 LBS PER 1000 SQUARE FEET. FERTILIZE AND MULCH PER MANUFACTURER'S RECOMMENDATIONS. MULCH SHALL BE CERTIFIED NOXIOUS WEED SEED-FREE



	DESIGN SPECIFICATIO	NS	GENERAL NOTES
1.	DESIGN IS IN ACCORDANCE WITH THE STATE OF WISCONSIN BUILDING CODE.	AND THE 2015 INTERNATIONAL	
	MINIMUM 28 DAY CONCRETE CYLINDER STRENGTH SHALL BI	Ξ:	1. FOOTINGS SHALL BE CAST ON UNDISTURBED
	PIERS 4000 PSI GRADE BEAMS 4000 PSI FOUNDATION WALLS 4000 PSI		ENCOUNTERED AT THE ELEVATIONS SHOWN BEFORE PROCEEDING.
	SLABS ON GRADE     4000 PSI       COLUMNS     5000 PSI       STRUCTURAL SLAB SYSTEMS     6000 PSI		<ol> <li>NO HOLES, TRENCHES OR DISTURBANCES OF DESCRIBED BY 45 DEGREE LINES SLOPING FI ARE REQUIRED, FOOTINGS MUST BE LOWFRI</li> </ol>
REINFO	RCING STEEL SHALL CONFORM TO ASTM A615 GRAD	E 60.	3. BACKFILL EVENLY ON EACH SIDE OF FOUNDA
POST	-TENSIONING STEEL SHALL CONFORM TO ASTM A416.		<ol> <li>DO NOT BACKFILL AGAINST BASEMENT WALL OR UNTIL WALLS ARE ADEQUATELY BRACED.</li> </ol>
CONC CONC	CRETE MASONRY UNITS SHALL CONFORM TO ASTM C90 CRETE MASONRY BRICK SHALL CONFORM TO ASTM C55	GRADE SW	<ol> <li>TOPSOIL AND FILL BELOW SLABS ON GROUN UNDER SLABS ON GROUND SHALL BE AS SPE DRAWINGS)</li> </ol>
MORT	AR SHALL CONFORM TO ASTM C270.		<ol> <li>BACKFILL AGAINST INTERIOR FOUNDATION V MAXIMUM 6-INCH LAYERS</li> </ol>
MAS BE f	ONRY GROUT SHALL CONFORM TO ASTM C476. MINIMUN g = 3000 PSI.	A COMPRESSIVE STRENGTH SHALL	<ol> <li>BACKFILL AGAINST EXTERIOR FOUNDATION MAXIMUM 6 INCH LAYERS</li> </ol>
MIN f' <sub>m</sub> =	IIMUM COMPRESSIVE STRENGTH OF CONCRETE MASONF 2500 PSI.	RY CONSTRUCTION SHALL BE	8. PROVIDE MINIMUM 24 INCHES OF FREE DRAI
ST ST	RUCTURAL STEEL W-SHAPES SHALL CONFORM TO ASTM	A992 GRADE 50. ER ROLLED MEMBERS SHALL	CONCRETE
CO RE(	NFORM TO ASTM A36. CTANGULAR OR SQUARE HSS MEMBERS SHALL CONFORI	M TO ASTM A500 GRADE B.	<ol> <li>FORMWORK SHALL BE DESIGNED IN ACCORE PRACTICE", LATEST EDITION.</li> </ol>
ROUI	ND HSS MEMBERS SHALL CONFORM TO ASTM A500 GRA	DE B.	2. REINFORCING STEEL SHALL BE DETAILED AN OF CONCRETE PRACTICE", LATEST EDITION,
STEEL	. PIPE SHALL CONFORM TO ASTM A53 GRADE B. MED BEARING CAPACITY FOR SPREAD FOOTINGS IS 50	00 PSF UNLESS NOTED OTHERWISE,	<ol> <li>LAP ALL WALL BARS 30 DIAMETERS WITH CLA WELDED WIRE MESH 6 INCHES.</li> </ol>
BASE AGGF	D UPON INSTALLATION OF RAMMED AGGREGATE PIER REGATE PIER INSTALLED.	S AS DESIGNED BY RAMMED	4. PROVIDE COLUMN AND WALL DOWELS OF TH COLUMN AND WALL REINFORCING UNLESS O
DESIG	IN LOADS: (PARKING GARAGE) FLOOR LIVE LOADS		<ol> <li>PROVIDE TWO #4 BARS AS STIRRUP CARRY E STIRRUPS.</li> </ol>
	GARAGES STAIRS AND EXIT WAYS LOBBIES	40 PSF 100 PSF 100 PSF	6. WHEREVER AN APPROVED PIPE OR CONDUIT ADDITIONAL STIRRUP ON EACH SIDE OF THE
	MECHANICAL ROOMS	50 PSF	7. CONCRETE PROTECTION FOR REINFORCING "BUILDING CODE REQUIREMENTS FOR STRUC
		20 PSF	8. SLABS ON GRADE SHALL BE CAST ALLOWING ADEQUATELY CONTROL SHRINKAGE CRACKI
	LIVE LOAD REDUCTION PER IBC 2015 SECTION 160	7.10 IS INCLUDED.	SAWCUT WILL NOT RAVEL CONCRETE OR WI OPERATION. MAXIMUM SIZE OF PANELS SHA GRADE. GENFRALLY JOINTS SHALL OCCUP
	ROOF SNOW LOAD (ASCE 7-10) RISK CATEGORY		9. SLABS ON GRADE SHALL BE 5 INCHES THICK
	INPORTANCE FACTOR GROUND SNOW LOAD FLAT ROOF SNOW LOAD	$P_{g} = 1.0$ $P_{g} = 30 \text{ PSF}$ $P_{f} = 25.2 \text{ PSF}$	10. ALLOW AT LEAST 24 HOURS BEFORE POURIN CONSTRUCTION JOINTS. MAXIMUM LENGTH
	EXPOSURE FACTOR THERMAL FACTOR	$C_e = 1.0$ $C_t = 1.2$	11. CONTRACTOR SHALL NOTIFY THE ENGINEER
	REFER TO PLAN SHEETS FOR SNOW DRIFT SURCH SNOW DRIFTS (w)	HARGE LOADS ( $P_D$ ) AND WIDTHS OF	12. CONCRETE SLABS ON METAL DECK SHALL BI
	ROOF RAIN LOAD BUILDING HAS BEEN DESIGNED FOR RAIN LOADS	PER IBC 2015 SECTION 1611.	13. CONSTRUCTION JOINTS IN BEAMS, JOISTS O AND CENTERLINE OF SPAN, OR AS DIRECTED
	WIND LOAD (ASCE 7-10) RISK CATEGORY ULTIMATE WIND SPEED	II V <sub>ult</sub> = 115 MPH	14. DO NOT PLACE OR CUT HOLES IN CONCRETE PRIOR APPROVAL OF THE ENGINEER.
	NOMINAL WIND SPEED EXPOSURE INTERNAL PRESSURE COEFFICIENT	$V_{asd}$ = 90 MPH C GC <sub>pi</sub> = +/- 0.55	15. EXTERIOR EXPOSED CONCRETE SHALL BE A (+/-1 1/2 PERCENT).
S	COMPONENTS AND CLADDING	REFER TO TABLE THIS SHEET	16. CAMBER CONCRETE MEMBERS FOR DEAD LC
0	RISK CATEGORY IMPORTANCE FACTOR	$  _{e} = 1.0$	17. PIPES AND CONDUITS EMBEDDED IN OR PASS APPROVED BY THE STRUCTURAL ENGINEER. SHALL NOT BE LARGER THAN 2 INCHES IN OU
	MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETERS DESIGN SPECTRAL RESONSE ACCELERATION	$S_{S} = 0.085 \text{ g}$ $S_{1} = 0.046 \text{ g}$ $S_{DS} = 0.091 \text{ g}$	FITTING OR 1/3 OF THE THICKNESS OF THE S
	SEISMIC RESPONSE COEFFICIENT RESPONSE MODIFICATION FACTOR SITE CLASS	Cs = 0.01 R = 3 D	SHALL BE LOCATED AND PLACED SO THAT:
	SEISMIC DESIGN CATEGORY SEISMIC FORCE-RESISTING SYSTEM	A ORDINARY REINFORCED CONCRETE MOMENT FRAMES	2. THE CONCRETE COVER IS NOT LESS 3. THEY RUN BETWEEN REINFORCING
	ANALYSIS PROCEDURE DESIGN BASE SHEAR	EQUIVALENT LATERAL FORCE PROCEDCURE 150 KIPS (N-S/E-W)	19. ALUMINUM CONDUITS SHALL NOT BE PLACED
DESIG	N LOADS: (EXISTING GROCERY)		20. CHAMFER ALL EXPOSED CONCRETE CORNEF FOR REQUIREMENTS.
	ROOF LIVE LOAD MINIMUM ROOF LIVE LOAD	20 PSF	21. CONCRETE SHALL BE TESTED BY THE OWNE REQUIREMENTS.
ľ	ROOF SNOW LOAD (ASCE 7-10) RISK CATEGORY	II	22. PROPER CURING PROCEDURES SHALL BE US 23. CALCIUM CHLORIDE SHALL NOT BE USED IN (
	IMPORTANCE FACTOR GROUND SNOW LOAD FLAT ROOF SNOW LOAD	I <sub>s</sub> = 1.0 P <sub>g</sub> = 30 PSF P <sub>f</sub> = 25.2 PSF	24. PROVIDE WATERSTOPS AT ALL CONSTRUCT SHOWN ON DRAWINGS. SEE SPECIFICATION
	EXPOSURE FACTOR THERMAL FACTOR	$C_e = 1.0$ $C_t = 1.0$	25. CONCRETE COVER REQUIREMENTS FOR MIL
	REFER TO PLAN SHEETS FOR SNOW DRIFT SURCH SNOW DRIFTS (w)	HARGE LOADS ( $P_D$ ) AND WIDTHS OF	<u>COMPONENT</u> FOOTINGS
	ROOF RAIN LOAD BUILDING HAS BEEN DESIGNED FOR RAIN LOADS	PER IBC 2015 SECTION 1611.	BEAMS (BOTTOM) BEAMS (TOP) SLABS (BOTTOM)
	WIND LOAD (ASCE 7-10) RISK CATEGORY	11	SLABS (DOTTOM) SLABS (TOP) WALLS (EXTERIOR FACE)
	ULTIMATE WIND SPEED NOMINAL WIND SPEED EXPOSURE	V <sub>ult</sub> = 115 MPH V <sub>asd</sub> = 90 MPH C	
	INTERNAL PRESSURE COEFFICIENT COMPONENTS AND CLADDING	GC <sub>pi</sub> = +/- 0.18 REFER TO TABLE THIS SHEET	PRODUCTION AND CONSTRUCTION OF CONC THE VIEW DIALO CODE DECUMPENT FOR CONC
DESIS.	TANCE TO LATERAL LOADS ON STRUCTURE IS REQUIRE	ED BY FLOOR DIAPHRAGMS	THE BUILDING CODE REQUIREMENTS FOR M
CONT	RACTOR SHALL PROVIDE SUFFICIENT TEMPORARY BR EMS ARE IN PLACE AND FUNCTIONAL.	ACING UNTIL ALL LATERAL SUPPORT	2. HOT AND COLD WEATHER CONSTRUCTION S (INTERNATIONAL MASONRY INDUSTRY ALL-W AND GUIDE SPECIFICATIONS FOR HOT AND (
	STRUCTURAL FRAMING AND CONNECTIONS HAVE BEEN /PLETED CONDITION AND HAVE NOT BEEN INVESTIGATE	DESIGNED FOR THE FINAL D FOR POTENTIAL LOADINGS	3. CALCIUM CHLORIDE OR ADMIXTURES CONTA
ENC. STRI CON	JOINTERED DURING ERECTION AND CONSTRUCTION. AN JCTURAL FRAMING AND CONNECTIONS FOR ADEQUACY STRUCTION PROCESS IS THE RESPONSIBILITY OF THE (	DURING THE ERECTION AND CONTRACTOR.	<ol> <li>MASONRY WALLS SHALL BE ADEQUATELY BF DESIGN SUPPORTS ARE IN PLACE AND FUNC CONTRACTOR.</li> </ol>
CON	TRACTOR IS RESPONSIBLE FOR MEANS AND METHODS TY.	OF CONSTRUCTION AND JOB SITE	5. PROVIDE DOWELS INTO FOUNDATION THE S
UALI			<ol> <li>LAP REINFORCING BARS 48 DIAMETERS.</li> <li>CONCRETE MASONRY WALLS SUME AS DEC.</li> </ol>
			1. CONGRETE MASONRY WALLS SHALL BE REIN LADDER TYPE JOINT REINFORCEMENT.
UAI			8. VERTICAL BARS SHOWN ON THE DESIGN DR UNOBSTRUCTED CELL OF NOT LESS THAN 3
			<ol> <li>VERTICAL BARS SHOWN ON THE DESIGN DR. UNOBSTRUCTED CELL OF NOT LESS THAN 3</li> <li>ALL BOND BEAMS AND PILASTERS SHALL BE DRAWINGS AND FILLED WITH GROUT.</li> </ol>
			<ol> <li>VERTICAL BARS SHOWN ON THE DESIGN DR UNOBSTRUCTED CELL OF NOT LESS THAN 3</li> <li>ALL BOND BEAMS AND PILASTERS SHALL BE DRAWINGS AND FILLED WITH GROUT.</li> <li>ALL DOOR AND WINDOW JAMBS SHALL BE GI OTHERWISE.</li> </ol>
			<ol> <li>VERTICAL BARS SHOWN ON THE DESIGN DR/ UNOBSTRUCTED CELL OF NOT LESS THAN 3</li> <li>ALL BOND BEAMS AND PILASTERS SHALL BE DRAWINGS AND FILLED WITH GROUT.</li> <li>ALL DOOR AND WINDOW JAMBS SHALL BE GF OTHERWISE.</li> <li>WHERE NOT SHOWN OTHERWISE, MINIMUM S REACTIONS SHALL BE 16 INCHES DEEP BY 32</li> </ol>

### EARTHWORK FOOTINGS SHALL BE CAST ON UNDISTURBED SUBSOIL. IF DESIGN CAPACITY IS NOT ENCOUNTERED AT THE ELEVATIONS SHOWN, FOOTINGS MUST BE LOWERED. CONSULT ENGINEER BEFORE PROCEEDING. NO HOLES, TRENCHES OR DISTURBANCES OF THE SOIL SHALL BE ALLOWED WITHIN THE VOLUME DESCRIBED BY 45 DEGREE LINES SLOPING FROM THE BOTTOM EDGE OF THE FOOTING. IF SUCH ARE REQUIRED, FOOTINGS MUST BE LOWERED. BACKFILL EVENLY ON EACH SIDE OF FOUNDATION WALLS AND RETAINING WALLS. DO NOT BACKFILL AGAINST BASEMENT WALLS UNTIL FLOOR SYSTEM IS IN PLACE AND FASTENED OR UNTIL WALLS ARE ADEQUATELY BRACED. BRACING SHALL BE DESIGNED BY THE CONTRACTOR. TOPSOIL AND FILL BELOW SLABS ON GROUND SHALL BE REMOVED. AGGREGATE BASE COURSE UNDER SLABS ON GROUND SHALL BE AS SPECIFIED (EXCEPT WHERE LOOSE FILL IS INDICATED ON DRAWINGS). BACKFILL AGAINST INTERIOR FOUNDATION WALLS SHALL BE AS SPECIFIED COMPACTED TO MAXIMUM 6-INCH LAYERS. BACKFILL AGAINST EXTERIOR FOUNDATION WALLS SHALL BE AS SPECIFIED COMPACTED TO MAXIMUM 6-INCH LAYERS. PROVIDE MINIMUM 24 INCHES OF FREE DRAINING AGGREGATE OVER ALL DRAIN TILES AND 4 INCHES BELOW. CONCRETE FORMWORK SHALL BE DESIGNED IN ACCORDANCE WITH THE ACI "MANUAL OF CONCRETE PRACTICE", LATEST EDITION. REINFORCING STEEL SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH THE ACI "MANUAL OF CONCRETE PRACTICE", LATEST EDITION, UNLESS OTHERWISE NOTED. LAP ALL WALL BARS 30 DIAMETERS WITH CLASS B SPLICES UNLESS OTHERWISE DETAILED. LAP WELDED WIRE MESH 6 INCHES. PROVIDE COLUMN AND WALL DOWELS OF THE SAME SIZE AND NUMBER AS THE RESPECTIVE COLUMN AND WALL REINFORCING UNLESS OTHERWISE DETAILED. PROVIDE TWO #4 BARS AS STIRRUP CARRY BARS WHERE NO TOP STEEL IS AVAILABLE TO HOLD STIRRUPS. WHEREVER AN APPROVED PIPE OR CONDUIT EXTENDS THROUGH A BEAM. PROVIDE ONE ADDITIONAL STIRRUP ON EACH SIDE OF THE OPENING. CONCRETE PROTECTION FOR REINFORCING BARS SHALL BE IN ACCORDANCE WITH THE "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE", ACI 318-14. SLABS ON GRADE SHALL BE CAST ALLOWING A SUFFICIENT NUMBER OF JOINTS TO ADEQUATELY CONTROL SHRINKAGE CRACKING. SAWCUTTING SHALL BE DONE AS SOON AS SAWCUT WILL NOT RAVEL CONCRETE OR WITHIN 24 HOURS MAXIMUM OF INITIAL POURING OPERATION. MAXIMUM SIZE OF PANELS SHALL BE 15 FEET BY 15 FEET FOR 5-INCH SLAB ON GRADE. GENERALLY, JOINTS SHALL OCCUR ON COLUMN CENTERLINES. SLABS ON GRADE SHALL BE 5 INCHES THICK AND REINFORCED AS SHOWN ON THE DRAWINGS. ALLOW AT LEAST 24 HOURS BEFORE POURING ADJACENT WALL SECTIONS BETWEEN CONSTRUCTION JOINTS. MAXIMUM LENGTH OF POUR TO BE 40 FEET, UNLESS CRACK INDUCERS ARE USED AS DETAILED ON THE DRAWINGS. CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 24 HOURS PRIOR TO PLACING CONCRETE. CONCRETE SLABS ON METAL DECK SHALL BE POURED TO A CONSTANT THICKNESS. CONSTRUCTION JOINTS IN BEAMS, JOISTS OR SLABS TO BE LOCATED BETWEEN THE 1/4 POINT AND CENTERLINE OF SPAN, OR AS DIRECTED BY THE ENGINEER. DO NOT PLACE OR CUT HOLES IN CONCRETE SLABS, BEAMS, WALLS OR COLUMNS WITHOUT PRIOR APPROVAL OF THE ENGINEER. EXTERIOR EXPOSED CONCRETE SHALL BE AIR-ENTRAINED. AIR CONTENT SHALL BE 6 PERCENT (+/-1 1/2 PERCENT). CAMBER CONCRETE MEMBERS FOR DEAD LOAD DEFLECTION BY ADJUSTING FORMS. PIPES AND CONDUITS EMBEDDED IN OR PASSING THROUGH STRUCTURAL MEMBERS MUST BE APPROVED BY THE STRUCTURAL ENGINEER. PIPE AND CONDUITS EMBEDDED IN CONCRETE SHALL NOT BE LARGER THAN 2 INCHES IN OUTSIDE DIAMETER AT THEIR WIDEST POINT OR FITTING OR 1/3 OF THE THICKNESS OF THE SLAB, BEAM OR WALL. ELECTRICAL CONDUIT OR PIPES EMBEDDED IN OR PASSING THROUGH SLABS, BEAMS OR WALLS SHALL BE LOCATED AND PLACED SO THAT: 1. THEY ARE NOT CLOSER THAN THREE DIAMETERS ON CENTER. 2. THE CONCRETE COVER IS NOT LESS THAN 2 INCHES. 3. THEY RUN BETWEEN REINFORCING AND DO NOT DISPLACE IT IN ANY MANNER. ALUMINUM CONDUITS SHALL NOT BE PLACED IN CONCRETE. CHAMFER ALL EXPOSED CONCRETE CORNERS. SEE ARCHITECTURAL/STRUCTURAL DRAWINGS FOR REQUIREMENTS. CONCRETE SHALL BE TESTED BY THE OWNER'S TESTING LAB. REFER TO SPECIFICATIONS FOR REQUIREMENTS. PROPER CURING PROCEDURES SHALL BE USED FOR SLAB ON GRADE TO PREVENT CURLING. . CALCIUM CHLORIDE SHALL NOT BE USED IN CONCRETE MIXES. PROVIDE WATERSTOPS AT ALL CONSTRUCTION JOINTS BELOW THE WATER TABLE AND AS SHOWN ON DRAWINGS. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION. CONCRETE COVER REQUIREMENTS FOR MILD REINFORCEMENT (MINIMUM) <u>COMPONENT</u> REQUIRED COVER FOOTINGS BEAMS (BOTTOM) 1 1/2" BEAMS (TOP) SLABS (BOTTOM) SLABS (TOP) WALLS (EXTERIOR FACE) COLUMN TIES **CONCRETE MASONRY** PRODUCTION AND CONSTRUCTION OF CONCRETE MASONRY SHALL BE IN ACCORDANCE WITH THE "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES", ACI 530-13, AND THE NCMA "TEK MANUAL FOR CONCRETE MASONRY DESIGN AND CONSTRUCTION", LATEST EDITION. HOT AND COLD WEATHER CONSTRUCTION SHALL BE IN COMPLIANCE WITH THE IMIAC (INTERNATIONAL MASONRY INDUSTRY ALL-WEATHER COUNCIL) "RECOMMENDED PRACTICES AND GUIDE SPECIFICATIONS FOR HOT AND COLD WEATHER MASONRY AND CONSTRUCTION". CALCIUM CHLORIDE OR ADMIXTURES CONTAINING CALCIUM CHLORIDE SHALL NOT BE USED. MASONRY WALLS SHALL BE ADEQUATELY BRACED TO RESIST WIND FORCES UNTIL PERMANENT DESIGN SUPPORTS ARE IN PLACE AND FUNCTIONAL. BRACING SHALL BE DESIGNED BY THE CONTRACTOR. PROVIDE DOWELS INTO FOUNDATION THE SAME SIZE AND NUMBER AS WALL REINFORCING. LAP REINFORCING BARS 48 DIAMETERS. CONCRETE MASONRY WALLS SHALL BE REINFORCED AT EVERY OTHER BED JOINT WITH 9 GAGE LADDER TYPE JOINT REINFORCEMENT. VERTICAL BARS SHOWN ON THE DESIGN DRAWINGS SHALL BE PLACED IN A CONTINUOUS UNOBSTRUCTED CELL OF NOT LESS THAN 3 INCHES BY 4 INCHES. ALL BOND BEAMS AND PILASTERS SHALL BE REINFORCED AS SHOWN ON THE DESIGN DRAWINGS AND FILLED WITH GROUT. ALL DOOR AND WINDOW JAMBS SHALL BE GROUTED SOLID 8 INCHES WIDE UNLESS SHOWN OTHERWISE. WHERE NOT SHOWN OTHERWISE. MINIMUM SOLID GROUTED MASONRY BELOW BEAM

- REACTIONS SHALL BE 16 INCHES DEEP BY 32 INCHES LONG. WHERE NOT SHOWN OTHERWISE, MINIMUM SOLID GROUTED MASONRY BELOW LINTEL REACTIONS SHALL BE 16 INCHES DEEP BY 16 INCHES LONG.

	PRECAST CONCRETE
1.	PRECAST CONCRETE MEMBERS SHALL BE DESIGNED IN ACCORDANCE WITH THE "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE", ACI 318-14.
2.	PRECAST CONCRETE SHALL BE DETAILED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE ACI "MANUAL OF CONCRETE PRACTICE", LATEST EDITION, AND THE AFOREMENTIONED

- CONCRETE PROVISIONS. 3. PRECAST CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER DESIGN AND REINFORCING OF PRECAST CONCRETE FOR HANDLING AND ERECTION STRESSES.
- 4. PRECAST MEMBERS SHALL BE ATTACHED AND SUPPORTED BY THE STRUCTURE AS INDICATED ON THE DRAWINGS. 5. PRECAST MEMBERS SHALL BE DESIGNED AND REINFORCED FOR SELF-WEIGHT AND ALL
- SUPERIMPOSED LOADS SHOWN ON THE DRAWINGS. 6. PRECAST MEMBERS SHALL BE CAPABLE OF SAFELY SUPPORTING ANY CONCENTRATED LOADS INDICATED BY THE STRUCTURAL, MECHANICAL, AND ARCHITECTURAL DRAWINGS.
- 7. PRECAST CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIALS (HANGERS, CLIPS, PLATES, HEADERS, ANCHORAGES, ETC.) WHICH MUST BE PRECAST INTO THE CONCRETE UNLESS OTHERWISE NOTED OR REQUIRED FOR CONNECTION OF PRECAST TO STRUCTURE.
- 8. CONTRACTOR SHALL COORDINATE LOCATIONS OF ALL HOLES OR OPENINGS WITH RESPECTIVE IRADES BEFORE FABRICATION. ANY DEVIATION FROM THESE LOCATIONS OR ADDITIONAL OPENINGS MUST BE APPROVED BY THE FABRICATOR. 9. GROUT IN PRECAST MEMBER KEYWAYS SHALL BE SAND-CEMENT GROUT. MINIMUM
- COMPRESSIVE STRENGTH SHALL BE 2500 PSI.
- 10. FIRE RATING OF PRECAST WALL PANELS SHALL BE 2 HOUR. 11. WALL PANEL JOINTS SHALL BE FILLED WITH APPROVED FIRE STOP MATERIAL AND POLYURETHANE JOINT SEALANT.

# STRUCTURAL STEEI

- 1. STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE AISC "STEEL CONSTRUCTION MANUAL", FOURTEENTH EDITION, AND THE AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES", APRIL 14, 2010 EDITION. 2. WHERE INDICATED ON DRAWINGS, STRUCTURAL AND MISCELLANEOUS STEEL WHICH SHALL
- REMAIN EXPOSED TO VIEW SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE AISC "SPECIFICATION FOR ARCHITECTURALLY EXPOSED STRUCTURAL STEEL", LATEST EDITION, WITHOUT GAPS OR OPEN JOINTS.
- 3. STEEL JOIST FABRICATION AND ERECTION SHALL CONFORM TO THE STANDARD SPECIFICATIONS OF THE STEEL JOIST INSTITUTE. JOISTS SHALL BE MANUFACTURED WITH HOT-ROLLED TOP AND BOTTOM CHORD MEMBERS.
- 4. STEEL DECK FABRICATION AND ERECTION SHALL CONFORM TO THE STANDARD SPECIFICATIONS OF THE STEEL DECK INSTITUTE.
- 5. ALL WELDING SHALL COMPLY WITH AWS D1.1 USING E70XX ELECTRODES. ALL WELDING TO BE DONE BY AWS PREQUALIFIED WELDERS, CERTIFIED FOR WELDS MADE. PROVIDE CONTINUOUS MINIMUM SIZED WELDS PER AISC REQUIREMENTS, UNLESS NOTED OTHERWISE.
- 6. THE MINIMUM SIZE OF FILLET WELDS SHALL BE AS SPECIFIED IN TABLE J2.4 IN THE AISC "STEEL CONSTRUCTION MANUAL".
- 7. MINIMUM STRENGTH OF WELDED CONNECTIONS: UNLESS NOTED OTHERWISE ON THE DRAWINGS, ALL SHOP AND FIELD WELDS SHALL DEVELOP THE FULL TENSILE STRENGTH OF THE MEMBER OF ELEMENT JOINED. ALL MEMBERS WITH MOMENT CONNECTIONS, NOTED ON THE DRAWINGS, SHALL BE WELDED TO DEVELOP THE FULL FLEXURAL CAPACITY OF THE MEMBER, UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- 8. BOLTED CONNECTIONS SHALL BE MADE WITH ASTM A325 HIGH STRENGTH BOLTS (MINIMUM 3/4-INCH DIAMETER). BEAM-TO-COLUMN CONNECTIONS SHALL BE MADE WITH DOUBLE ANGLES UNLESS
- OTHERWISE DETAILED. 9. MINIMUM NUMBER OF BOLTS FOR END SHEAR REACTIONS ARE AS FOLLOWS: 1. W8, W10 OR W12: 2 3. W21 OR W24: 4 5. W33, W36 OR W40: 6 2. W14, W16 OR W18: 3 4. W27 OR W30: 5 6. W44: 7
- 10. BEAMS AND JOISTS SHALL BE EQUALLY SPACED IN A BAY UNLESS NOTED OTHERWISE ON PLAN.
- 11. ALL STRUTS, HANGERS, AND BRACES SHALL HAVE CONNECTIONS DESIGNED TO DEVELOP THE FULL ALLOWABLE TENSILE STRENGTH OF THE MEMBER UNLESS THE DESIGN FORCE IS INDICATED ON THE DRAWINGS, IN WHICH CASE THE CONNECTIONS SHALL BE DESIGNED FOR THE FORCE INDICATED.
- 12. COLUMN BASE PLATES SHALL HAVE OVERSIZED HOLES WITH PLATE WASHERS (MINIMUM 3/8-INCH THICK) PROVIDED WITH ANCHOR RODS. 13. GROUT UNDER BASE PLATES IN ACCORDANCE WITH THE "AISC CODE OF STANDARD
- PRACTICE FOR STEEL BUILDINGS AND BRIDGES", APRIL 14, 2010 EDITION. 14. WHERE BEAMS SUPPORT JOISTS FROM ONLY ONE SIDE, JOIST SEAT SHALL EXTEND 1-INCH
- BEYOND BEAM CENTERLINE. 15. JOISTS SHALL BE DESIGNED FOR NET UPLIFT SHOWN ON THE "WIND PROVISIONS FOR COMPONENTS AND CLADDING TABLE" THIS SHEET. JOIST SUPPLIER SHALL PROVIDE ALL
- ADDITIONAL BRIDGING AND BRACING AS REQUIRED BY THE STEEL JOIST INSTITUTE. 16. ALL JOISTS ADJACENT AND RUNNING PARALLEL TO BEAMS SHALL BE SUPPLIED WITH ONE HALF OF STANDARD CAMBER.
- 17. STEEL ROOF DECK SHALL BE WIDE RIB 1 1/2-INCH DEEP AND 18 GAGE THICKNESS UNLESS
- SHOWN OTHERWISE ON THE DRAWINGS. 18. DECK END LAPS SHALL BE 2-INCH MINIMUM AND SHALL OCCUR AT SUPPORTS. LOCATE AT
- VALLEYS AND RIDGES. 19. WHERE CONTINUOUS DIAPHRAGM CHORD ANGLES ARE INDICATED, PROVIDE A FULL
- PENETRATION WELD AT THE SPLICE LOCATIONS. 20. CLEAN, PREPARE, AND SHOP PRIME EXTERIOR EXPOSED STRUCTURAL STEEL MEMBERS IN
- ACCORDANCE WITH SSPC STANDARDS SP-1 AND SP-6.
- 21. CLEAN, PREPARE, AND SHOP PRIME INTERIOR EXPOSED STRUCTURAL STEEL MEMBERS IN ACCORDANCE WITH SSPC STANDARDS SP-1 AND SP-3.
- 22. WHILE THE DESIGN DOCUMENTS MAY REFERENCE OSHA, THEY ARE NOT INTENDED TO SPECIFICALLY IDENTIFY ALL APPLICABLE OSHA REQUIREMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO IDENTIFY AND COMPLY WITH ALL APPLICABLE OSHA REQUIREMENTS. 23. ALL STRUCTURAL STEEL PERMANENTLY EXPOSED TO THE WEATHER, INCLUDING MASONRY SHELF ANGLES, SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A123,
- UNLESS OTHERWISE NOTED. 24. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL MISCELLANEOUS STEEL.

# COLD-FORMED STEEL FRAMING

- 1. DESIGN, FABRICATION, AND ERECTION OF COLD-FORMED STEEL FRAMING SHALL BE IN ACCORDANCE WITH THE AISI "COLD-FORMED STEEL DESIGN MANUAL", LATEST EDITION. ALL FRAMING MEMBERS SHOWN ON PLANS ARE SCHEMATIC AND ARE SHOWN FOR INTENT ONLY. DESIGN AND CALCULATIONS WILL BE REVIEWED BY GRAEF.
- 2. STEEL STUD CURTAIN WALL AND CONNECTIONS TO BE DESIGNED BY SUPPLIER. STEEL STUD CURTAIN WALL AND CONNECTION DESIGN SHALL BE SEALED BY PROFESSIONAL ENGINEER EXPERIENCED IN THIS WORK AND REGISTERED IN THE STATE OF WISCONSIN.
- 3. LIVE LOAD DEFLECTION CRITERIA FOR COMPONENTS SHALL BE AS FOLLOWS:
- EXTERIOR WALL STUDS L/240 NOT TO EXCEED 1-INCH AT METAL PANELS L/600 FOR BRICK VENEER
- 4. MINIMUM DESIGN THICKNESS OF STUDS AND TRACK AT EXTERIOR OF BUILDING SHALL BE 18 GAGE.
- 5. LOAD BEARING STUDS SHALL BE DESIGNED TO CARRY ALL GRAVITY LOADS AND LATERAL FORCES INCLUDING BUT NOT LIMITED TO DEAD LOADS, LIVE LOADS, WIND LOADS, AND AXIAL LOAD ECCENTRICITY.
- 6. NON-LOAD BEARING STUDS SHALL TRANSFER LATERAL LOADS TO STRUCTURE BY MEANS OF SLIDE CLIPS TO ALLOW FOR VERTICAL MOVEMENT OF PRIMARY STRUCTURAL MEMBERS.
- 7. SPLICES IN AXIALLY LOADED STUDS ARE NOT PERMITTED.
- 8. STUDS, TRACK, AND ACCESSORIES SHALL BE GALVANIZED WITH A MINIMUM G90 COATING PER ASTM A653.
- 9. STUDS SHALL BE PLUMBED, ALIGNED, AND SECURELY ATTACHED TO FLANGES OR WEBS OF LOWER TRACK. STUDS SHALL BE SEATED TIGHT TO TRACK WEBS PRIOR TO ATTACHMENT.
- 10. JOISTS SHALL BE LOCATED DIRECTLY OVER BEARING STUDS OR A LOAD DISTRIBUTION MEMBER SHALL BE PROVIDED AT THE TOP OF THE WALL.
- 11. REFER TO ARCHITECTURAL WALL SECTIONS AND DETAILS FOR ADDITIONAL INFORMATION. 12, ALL MEMBERS 0.0566-INCH MINIMUM THICKNESS OR THICKER (16 GAGE OR LOWER) SHALL BE OF MINIMUM 50 KSI STEEL. ALL MEMBERS OF 0.0451-INCH MINIMUM THICKNESS OR THINNER (18 GAGE OR HIGHER) AND ALL ACCESSORIES SHALL BE OF MINIMUM 33 KSI STEEL
- 13. STEEL STUD ERECTOR SHALL CONSTRUCT ALL LIGHTGAGE FRAMING IN A MANNER WHICH PROTECTS LATERAL STABILITY OF THE STRUCTURE.
- 14. ALL WELDS PERFORMED ON GALVANIZED LIGHTGAGE COMPONENTS SHALL BE COATED WITH ZINC RICH PAINT FOR CORROSION PROTECTION IN ACCORDANCE WITH ASTM A780. CONTRACTOR SHALL NOTIFY THE ENGINEER TO ALLOW ADEQUATE TIME FOR WELDS TO BE REVIEWED BEFORE SYSTEMS ARE ENCLOSED.
- 15. STEEL STUD WALLS SHALL BE DESIGNED AND CONSTRUCTED TO PROVIDE REQUIRED CAPACITIES TO CARRY CONSTRUCTION LOADS. CONTRACTOR SHALL PROVIDE NECESSARY BRIDGING OR ATTACHMENT TO WALL SHEATHING BEFORE STRUCTURAL COMPONENTS ARE LOADED.

# **MISCELLANEOUS**

- 1. DIMENSIONS OF EXISTING CONSTRUCTION OR CONSTRUCTION IN PROGRESS SHALL BE VERIFIED AND COORDINATED PRIOR TO FABRICATION OF STRUCTURAL COMPONENTS.
- 2. VERIFY AND COORDINATE, WITH ALL CONTRACTORS, THE LOCATION OF ALL ARCHITECTURAL AND MECHANICAL APPURTENANCES AND OPENINGS.
- 3. PROTECTION TO BE PROVIDED AT ALL PIPE LOCATIONS PER TYPICAL DETAIL ON SHEET S521.
- 4. REFER TO PLUMBING DRAWINGS FOR ROOF DRAIN LOCATIONS.
- 5. EXPANSION ANCHORS SHALL BE HILTI KWIK BOLT TZ.
- 6. ADHESIVE ANCHORS SHALL BE HILTI HIT-HY 200.
- 7. SLEEVE ANCHORS SHALL BE HILTI HLC.
- 8. SCREW ANCHORS SHALL BE HILTI KWIK HUS.
- 9. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR THE FOLLOWING ITEMS PRIOR TO FABRICATION: CONCRETE REINFORCING, POST-TENSIONING, STRUCTURAL STEEL.

# POST-TENSIONING

- 1. POST-TENSIONING CABLES SHALL BE LOW RELAXATION 7-WIRE STRAND WITH ULTIMATE TENSILE CAPACITY OF 270 KSI.
- 2. ACTUAL LOSSES SHALL BE COMPUTED BY TENDON SUPPLIER AND FURNISHED TO THE ENGINEER FOR RECORD PURPOSES ONLY.
- 3. DEAD STRESSING ENDS IN A SLAB SHALL BE ANCHORED AT MID-DEPTH.
- 4. TENDONS SHALL BE DRAPED ON A PARABOLIC PROFILE WITH LOW POINTS AND HIGH POINTS AS DETAILED ON THE DRAWINGS. TENDON PLACEMENT SHALL NOT VARY VERTICALLY BY MORE THAN 1/8-INCH
- 5. PARTIAL STRANDS NEEDED IN ADDITION TO FULL LENGTH STRANDS SHALL BE ANCHORED AT THE 1/4 POINT OF THE ADJACENT SPAN.
- 6. PROVIDE MINIMUM OF TWO #4 BARS BEHIND ALL POST-TENSIONING ANCHORAGES. BARS SHALL BE CONTINUOUS FOR SLABS AND AS DETAILED FOR BEAMS.
- 7. A MINIMUM OF THREE 1/2-INCH DIAMETER OR TWO 0.6-INCH DIAMETER CABLES SHALL PASS THROUGH ALL COLUMNS IN EACH DIRECTION FOR SLAB SYSTEM CONSTRUCTION.
- 8. ALL ANCHORAGE HARDWARE SHALL MEET THE REQUIREMENTS OF PCI AND ACI. ANCHORS SHALL BE DESIGNED FOR 3750 PSI CONCRETE STRENGTH. SUBMIT ALL CALCULATIONS TO THE FNGINFFR.
- 9. THE GENERAL CONTRACTOR SHALL COORDINATE THE FINAL LOCATIONS OF CONSTRUCTION JOINTS WITH THE POST-TENSIONING SUPPLIER AND TO SUBMIT POURING AND STRESSING SEQUENCE TO THE ENGINEER DURING POST-TENSIONING SHOP DRAWING SUBMITTALS.
- 10. MAXIMUM LENGTH OF TENDONS WHICH CAN BE PULLED FROM ONE END TO BE 125 FEET. JACKING FROM BOTH ENDS SHALL BE PERFORMED WHEN THERE IS EXCESSIVE FRICTIONAL LOSS ANTICIPATED. POST-TENSIONING SUPPLIER TO SUBMIT ALL CALCULATIONS SHOWING POST TENSION LOSSES TO THE ENGINEER.
- 11. INSERTS AND FASTENING DEVICES DUE TO OTHER WORK: INSERTS MAY BE USED ONLY IN AREAS WHERE THERE WILL BE NO INTERFERENCE WITH POST-TENSIONING TENDONS AND/ OR ANCHORAGES. IN NO CASE MAY EMBEDDED ITEMS BE ATTACHED TO POST-TENSIONING STEEL, AND CARE SHALL BE TAKEN SO AS NOT TO HAVE THE TENDONS OUT OF THERE DESIGNED POSITIONS. POWDER-DRIVEN OR DRILLED-IN INSERTS WILL NOT BE PERMITTED, UNLESS OTHERWISE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER. AT A MINIMUM, POST TENSIONING TENDONS NEED TO BE LOCATED PRIOR TO DRILLING IN POST-TENSIONED CONCRETE SLABS, BEAMS, OR GIRDERS.

CONCRETE COVER REQUIREMENTS FOR POST-TENSIONED TENDONS REQUIRED COVER

<u>COMPONENT</u> UNRESTRAINED SLABS (BOTTOM) 1 1/2"

UNRESTRAINED SLABS (TOP) 2" 12. ALL TENDONS TO BE ENCAPSULATED PER ACI 362 AND PTI SPECIFICATIONS.

# WIND PROVISIONS FOR COMPONENTS AND CLADDING



FLAT ROOF BUILDING a = 21'-6"

= INTERIOR ZONE ROOF = ZONE 1 WALLS = ZONE 4				= END ZONE ROOF = ZONE 2 WALLS = ZONE 5				= CORNER ZONE ROOF = ZONE 3			
	DESIGN WIND PRESSURE, PSF										
		EFI	FECTIV	E WIND	) AREA,	SF					
ZONE	1	10	20	50	100	200	> 500	DESCRIPTION			
1	53	53	53	53	53	53	53	ROOF INTERIOR ZONE			
2	59.4	59.4	58.5	57.2	56.2	56.2	56.2	END ZONE REGION OF THE ROOF			
3	75.5	75.5	69.7	62	56.2	56.2	56.2	CORNER ZONE REGION OF THE ROOF			
4 (+)	46.6	46.6	45.1	43	41.5	40	37.9				
4 (-)	-49.5	-49.5	-47.9	-45.9	-44.4	-42.8	-40.8	WALL INTERIOR ZONE			
5 (+)	46.6	46.6	45.1	43	41.5	40	37.9	END ZONE REGION OF			
5 (-)	-58.2	-58.2	-55.5	-51	-47.9	-44.9	-44.8	THE WALL			

NOTES:

1. NEGATIVE WIND PRESSURES ACT AWAY FROM COMPONENT SURFACE. POSITIVE WIND PRESSURES ACT TOWARD COMPONENT SURFACES.



SHEET NUMBER

PROJEC	T INFORMATION:
PROJECT NUMBER:	20225013.00
DATE:	11/30/2023
DRAWN BY:	JL
CHECKED BY:	AMG
APPROVED BY:	DFW
SCALE:	AS NOTED
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GENERAL NOTES	

ISSUE: 11/30/2023 BID DOCUMENTS

808 HUGHES PLACE MADISON, WI 53713

PROJECT TITLE: PHASE 1 VILLAGE ON PARK PARKING STRUCTURE AND **GROCERY ALTERATION WORK** 

Madison Municipal Buildin 215 Martin Luther King Jr Blvd Suite 161 Madison, WI 53703



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# SYMBOL LEGEND

2





# CONCRETE MASONRY LEGEND

3



# CONCRETE TWO-WAY FLAT SLAB FRAMING PLAN LEGEND



# CONCRETE MASONRY PLAN LEGEND



# PRECAST CONCRETE LEGEND



PRECAST TEE (LONGITUDINAL)



# VIEW LOCATION LEGEND

D1	D2	D3	D4	D5	D6	
C1	C2	C3	C4	C5	C6	
B1	B2	B3	B4	B5	B6	
A1	A2	A3	A4	A5	A6	





# STEEL FRAMING PLAN LEGEND



5

# SHEET INDEX

S001	GENERAL NOTES
S002	GENERAL INFORMATION
S003	GENERAL FOUNDATION DETAILS
S004	GENERAL MASONRY DETAILS
S101	LEVEL ONE FOUNDATION PLAN
S102	LEVEL TWO FRAMING PLAN
S103	LEVEL THREE FRAMING PLAN
S104	LEVEL FOUR FRAMING PLAN
S105	LEVEL FIVE FRAMING PLAN
S106	LEVEL SIX FRAMING PLAN
S107	LEVEL SEVEN FRAMING PLAN
S108	EXISTING BUILDING FOUNDATION & ROOF PLAN
S201	BUILDING SECTIONS
S400	ENLARGED FLOOR PLANS
S401	ENLARGED FLOOR PLANS
S402	ENLARGED FLOOR PLANS
S403	ENLARGED FLOOR PLANS
S501	FOUNDATION DETAILS
S502	FOUNDATION DETAILS
S511	POST-TENSIONING DETAILS
S512	POST-TENSIONING DETAILS
S521	STRUCTURAL DETAILS
S522	STRUCTURAL DETAILS
S523	STRUCTURAL DETAILS
S524	STRUCTURAL DETAILS
S601	SCHEDULES
S602	MISCELLANEOUS SCHEDULES

# ABBREVIATIONS

1WAY	ONE-WAY	LD BRG LDH	LOAD-BEARING LONG DIMENSION HORIZONTAL	
AB ADDL	ADDITIONAL		LONG DIMENSION VERTICAL LIVE LOAD	
ADDM AHU	AIR HANDLING UNIT	LLBB	LONG LEG BACK TO BACK	
ALI	ALTERNATE APPROXIMATE	LLV LVL	LONG LEG VERTICAL LAMINATED VENEER LUMBER	
AR ARCH	AS REQUIRED ARCHITECT	LVR	LOUVER	
B PL	BASE PLATE	M MAX	MOMENT	
B/B BC	BACK TO BACK BOTTOM CHORD	MBR MC	MEMBER MOMENT CONNECTION	
BF BF	BOTH FACES BOTTOM FACE	MD MECH	METAL DECK MECHANICAL	
BLDG BM	BUILDING BEAM	MEZZ MFR	MEZZANINE MANUFACTURER	
BO BOT	BOTTOM OF (REFER TO TOP OF) BOTTOM	MFR REC	MANUFACTURER'S RECOMMENDATION	C
BRDG	BRIDGING	MIN		
BRG PL	BEARING PLATE	ML		
BSMT	BASEMENT	MTL	MASONRY OPENING METAL	
BW	BUTH WAYS	MULI	MULTIPLE	
C TO C	CENTER TO CENTER	N NF	NORTH NEAR FACE	
CANTIL	CANTILEVER CAST-IN-PLACE	NIC	NOT IN CONTRACT NON LOAD-BEARING	
C] CJ	CONSTRUCTION JOINT CONTROL JOINT	NO NOM	NUMBER NOMINAL	
CL CMU	CENTER LINE CONCRETE MASONRY UNIT	NS NTS	NEAR SIDE NOT TO SCALE	
COL CONC	COLUMN CONCRETE	OC	ON CENTER	
CONN CONSTR	CONNECT CONSTRUCTION	OD OF	OUTSIDE DIAMETER OUTSIDE FACE	
CONT	CONTRACTOR	OPNG OPH		
CPRS	COMPRESSIBLE	OPP	OPPOSITE OPTIONAL	
CU	CUBIC	0/0	OUT TO OUT	
		PCC		
		PCF PL	POUNDS PER CUBIC FOOT PLATE	
D D	DEEP DEPTH	PLF PLYWD	POUNDS PER LINEAR FOOT PLYWOOD	
DBE DBL	DECK BEARING ELEVATION DOUBLE	PRCST PRELIM	PRECAST PRELIMINARY	
DEG DET	DEGREE DETAIL	PS CONC PSF	PRESTRESSED CONCRETE POUNDS PER SQUARE FOOT	
DEMO DIA	DEMOLITION DIAMETER	PSI PT	POUNDS PER SQUARE INCH POST-TENSIONED	
DIAG DIM	DIAGONAL DIMENSION	PT PT CONC	PRESSURE TREATED POST-TENSIONED CONCRETE	
DIR	DIRECTION	ΟΤΥ		
DWG	DRAWING	R	RADIUS	
E FA	EAST	RD	ROOF DRAIN REFERENCE	
EE	EACH END	REINF	REINFORCE	В
EJ	EXPANSION JOINT	REV	REVISION	
ELEC	ELECTRIC	RS RTU	ROOF TOP UNIT	
ELEV ENGR	ELEVATOR ENGINEER	S	SOUTH	
EOD EOG	EDGE OF DECK EDGE OF GRATING	SCHED SCHEM	SCHEDULE SCHEMATIC	
EOS EQ	EDGE OF SLAB EQUAL	SE SECT	STRUCTURAL ENGINEER SECTION	
EQL SP EQUIP	EQUALLY SPACED EQUIPMENT	SF SHT	SQUARE FOOT (FEET) SHEET	
EQUIV EW	EQUIVALENT EACH WAY	SIM SL	SIMILAR SLAB	
EXC EXIST. (E)	EXCAVATE EXISTING	SLBB SP	SHORT LEG BACK TO BACK	
EXP EXP BT	EXPANSION EXPANSION BOLT	SPCL	SPECIAL SPECIFICATION	
EXT	EXTERIOR	SQ	SQUARE	
FD	FLOOR DRAIN	SQ YD	SQUARE YARD	
FF	FAR FACE	STIF	STIFFENER	
FR	FRAME	STRUC	STEEL JUIST STRUCTURAL	
rə FSTNR	FASTENER	JIMM		
FI FTG	FOOTING	TB	THROUGH BOLT	
FUſ	FUTURE	IC TEMJ	TOP CHORD TOP ELEVATION MATCHES JOIST	
ga Galv	GAGE GALVANIZED	TEMP THK	I EMPORARY THICKNESS	
GC GLU LAM	GENERAL CONTRACTOR GLUE LAMINATED WOOD	THRU TOB	THROUGH TOP OF BEAM	
GR BM GRTG	GRADE BEAM GRATING	TOC TOCF	TOP OF CONCRETE TOP OF COLD-FORMED	
Н	HIGH	TOD TODP	TOP OF DECK TOP OF DRILLED PIER	
HDR HGR	HEADER HANGER	TOF TOG	TOP OF FOUNDATION TOP OF GRATING	
HORIZ, H HS	HORIZONTAL HIGH STRENGTH	TOGB TOP	TOP OF GRADE BEAM	
HSKPG	HOUSEKEEPING	TOPC	TOP OF PILE CAP	
		TOW	TOP OF WALL TUBE STEEL	A
ID IE		TYP	TYPICAL	
INFO		UNO	UNLESS NOTED OTHERWISE	
			VARIES	
JST BRG	JOIST BEARING	VERT, V VIF	VERIFY IN FIELD	
K KB	KIP (ONE THOUSAND POUNDS)	W	WEST WIDF	
KLF KOP		W/	WITH WITHOUT	
KSF	KIPS PER SQUARE FOOT	WBL	WOOD BLOCKING	
rəi KWY	NIFO FER OQUARE INUH KEYWAY	WF	WIDE FLANGE	
L	ANGLE	WT	WORK POINT WEIGHT	
laīl LB	LATERAL POUND	WWF WWM	WELDED WIRE FABRIC	

YD YARD



PROJECT NUMBER: 20225013.00 11/30/2023 DATE: DRAWN BY: CHECKED BY: AMG DFW APPROVED BY: AS NOTED SCALE:

PROJECT INFORMATION:



808 HUGHES PLACE MADISON, WI 53713

Madison, WI 53703

PHASE 1 VILLAGE ON PARK PARKING STRUCTURE AND **GROCERY ALTERATION WORK** 

PROJECT TITLE:

CDA Madison Municipal Building 215 Martin Luther King Jr Blvd Suite 161



CLIENT: Community Development Authority of the City of Madison

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CONSULTANTS:

GRZEF 1010 East Washington Avenue, Suite 202 Madison, WI 53703 608 / 242 1550

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FOOTING STEP (A4)

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SHEET NUMBER:

SCALE:	AS NOTED
	SHEET TITLE
GENERAL	FOUNDATION DETAILS

PROJECT NUMBER: 20225013.00 DATE: DRAWN BY: CHECKED BY: APPROVED BY: DFW

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PHASE 1 VILLAGE ON PARK PARKING STRUCTURE AND **GROCERY ALTERATION WORK** 

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3













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![](_page_10_Figure_2.jpeg)

# ISOMETRIC KEY PLAN - LEVEL 2

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![](_page_10_Picture_6.jpeg)

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**GREEF** 

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PROJECT NUMBER: 20225013.00

![](_page_11_Picture_5.jpeg)

PARKING STRUCTURE AND GROCERY ALTERATION WORK

808 HUGHES PLACE

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![](_page_11_Picture_8.jpeg)

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![](_page_12_Figure_2.jpeg)

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![](_page_12_Picture_4.jpeg)

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![](_page_12_Picture_8.jpeg)

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![](_page_13_Picture_3.jpeg)

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![](_page_13_Picture_5.jpeg)

![](_page_13_Picture_6.jpeg)

PROJECT TITLE: PHASE 1 VILLAGE ON PARK PARKING STRUCTURE AND GROCERY ALTERATION WORK

![](_page_13_Picture_8.jpeg)

Madison, WI 53703

MADISON, WI 53713

Community Development Authority of the City of Madison

![](_page_13_Picture_10.jpeg)

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![](_page_14_Figure_0.jpeg)

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![](_page_14_Figure_3.jpeg)

NOTES: DEAD AND SNOW LOADS GIVEN AT SERVICE LEVEL. • WIND LOADS GIVEN AT ULTIMATE AND ARE REVERSIBLE.

z

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6

MARK

LATERAL LOADING DIRECTION GIVEN RELATIVE TO TRUE NORTH.

![](_page_14_Picture_6.jpeg)

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![](_page_16_Figure_0.jpeg)

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## GENERAL SHEET NOTES

- EXISTING STRUCTURE CONSTRUCTED OF METAL ROOF DECK ON OPEN-WEB BAR JOISTS, SEE PLAN.
- TOP OF STEEL ELEVATIONS AS NOTED ON PLAN. • SEE "S522 - STRUCTURAL DETAILS" SHEET FOR THE FOLLOWING DETAILS:
- TYPICAL WELDED BEAM SPLICE
- TYPICAL CONNECTION OF BEAM TO WF GIRDER - TYPICAL JOIST TO WF BEAM TRANSFER DETAIL
- EXISTING SUSPENDED CEILING, ELECTRICAL, MECHANICAL, AND PLUMBING COMPONENTS TO BE TEMPORARILY REMOVED AND REINSTALLED WITHIN AFFECTED ZONE OF EXISTING COMMERCIAL SPACE TO FACILITATE INSTALLATION OF NEW STRUCTURAL STEEL MEMBERS AND DETAILS.
- EXISTING BUILDING NOTE: INFORMATION PERTAINING TO THE EXISTING CONDITIONS PROVIDED IN THESE CONSTRUCTION DOCUMENTS REPRESENTS, TO THE BEST OF THE KNOWLEDGE OF THE ENGINEER, ACTUAL, EXISTING FIELD CONDITIONS. DIMENSIONS OF EXISTING CONSTRUCTION SHALL BE FIELD VERIFIED AND COORDINATED PRIOR TO THE FABRICATION OF STRUCTURAL COMPONENTS. DISCREPANCIES BETWEEN THESE DRAWINGS AND FIELD CONDITIONS SHALL BE REPORTED TO THE ARCHITECT/ENGINEER FOR REVIEW. ANY WORK PERFORMED PRIOR TO RESOLUTION OF DISCREPANCIES BY THE ARCHITECT/ENGINEER IS SUBJECT TO REMOVAL AND REPLACEMENT AT NO ADDITIONAL COST TO THE CONTRACT. EXISTING STRUCTURAL COMPONENTS ARE SHOWN AS HALFTONE. FIELD VERIFY THAT ALL EXISTING STRUCTURAL COMPONENTS MATCH EXISTING PLANS.
- CONTRACTOR IS RESPONSIBLE FOR THE DESIGN, ERECTION AND SEQUENCING OF ALL TEMPORARY SHORING. ALL LOCATIONS OF TEMPORARY BRACING, SHORING AND UNDERPINNING IS TO BE DETERMINED BY THE CONTRACTOR AND THE CONTRACTORS ENGINEER. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- IN ORDER TO TURN AROUND THE SPACE TO THE PROSPECTIVE NEW GROCERY TENANT THE STRUCTURAL ROOF SUPPORT WORK IN THE GROCERY STORE SHALL OCCUR SHORTLY AFTER THE CONCTRACT IS SIGNED AND SAID WORK AND THE RESTORATION OF THE SPACE SHOULD BE COMPLETED IN A TIMELY MANNER TO MINIMIZE ANY DOWN TIME.

## SHEET KEYNOTES

- 06 BEAM SPLICES AT CONTRACTOR'S OPTION, TYPICAL. SPLICED SECTIONS SHALL BE NO LESS THAN 5'-0".
- 07 EXISTING 1" ROOF DECK AND INSULATION. 08 NEW 1 1/2" 20GA ROOF DECK WITH SLOPING INSULATION. FASTEN WITH #12 TEK SCREWS IN 36/4
- PATTERN. 09 PROVIDE CONTINUOUS GALVANIZED L3x3x5/16" FOR DECK BEARING. FASTEN TO CMU OR CONCRETE WALL USING 1/2" DIA x 4" LONG HILTI KWIK EZ CONCRETE SCREW ANCHORS AT 16" OC MAX.

![](_page_16_Picture_19.jpeg)

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![](_page_16_Picture_24.jpeg)

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![](_page_16_Picture_28.jpeg)

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![](_page_17_Figure_4.jpeg)

SECTION THROUGH SNOW CHUTE 1/2" = 1'-0"

5

(A5)

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6

![](_page_17_Picture_7.jpeg)

6

SHEET NUMBER:

PROJEC	T INFORMATION:
PROJECT NUMBER:	20225013.00
DATE:	11/30/2023
DRAWN BY:	JL
CHECKED BY:	AMG
APPROVED BY:	DFW
SCALE:	AS NOTED
	SHEET TITLE:
BUILDING SECTIONS	5

808 HUGHES PLACE MADISON, WI 53713 ISSUE: 11/30/2023 BID DOCUMENTS

![](_page_17_Picture_11.jpeg)

PHASE 1 VILLAGE ON PARK

PARKING STRUCTURE AND

GROCERY ALTERATION WORK

![](_page_17_Picture_12.jpeg)

CLIENT: Community Development Authority of the City of Madison

![](_page_17_Picture_14.jpeg)

1010 East Washington Avenue, Suite 202 Madison, WI 53703 608 / 242 1550

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![](_page_17_Picture_16.jpeg)

![](_page_18_Figure_0.jpeg)

2

2

![](_page_18_Figure_2.jpeg)

- TYPICAL FLOOR = 10" TWO-WAY FLAT SLAB. ADDITIONAL TOP AND BOTTOM BARS AS NOTED ON PLAN. PROVIDE STANDARD 90-DEGREE HOOK ON ALL BARS THAT TERINATE NEAR SLAB EDGE
- TOP OF CONCRETE SLAB ELEVATION AS NOTED ON PLAN
- SEE "SCHEDULES" SHEET FOR CONCRETE BEAM AND SHEARHEAD SCHEDULES.
- MAINTAIN SPECIFIED SLAB THICKNESS THROUGHOUT FLAT SLAB UNLESS NOTED OTHERWISE.
- SEE ELECTRICAL, PLUMBING, FIRE PROTECTION, HVAC AND ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATIONS OF SLAB OPENINGS AND PIPE SLEEVES. PROVIDE SLEEVES WITH DIAMETER 1" LARGER THAN CONDUIT. ALL SLEEVES TO BE SCHEDULE 40 STEEL PIPE.
- NO RECESSED AREAS IN SLAB ARE ALLOWED WITHOUT PRIOR APPROVAL FROM THE STRUCTURAL ENGINEER.

# SHEET KEYNOTES

10 (2)#4 x 5'-0" LONG LOCATED 1" BELOW TOP OF SLAB. PROVIDE AT ALL SLAB RE-ENTRANT CORNERS. ÀLL LOCATIONS NOT SHOWN ON PLAN. 15 COLD-FORM STEEL JOISTS REFER TO A3/S108.

![](_page_18_Picture_15.jpeg)

PROJEC	T INFORMATION:
PROJECT NUMBER:	20225013.00
DATE:	11/30/2023
DRAWN BY:	JLL
CHECKED BY:	BDM
APPROVED BY:	DFW
SCALE:	AS NOTED
	SHEET TITLE:
ENLARGED FLOOR	PLANS

![](_page_18_Picture_17.jpeg)

ISSUE:

![](_page_18_Picture_18.jpeg)

808 HUGHES PLACE MADISON, WI 53713

Madison Municipal Building 215 Martin Luther King Jr Blvd Suite 161 Madison, WI 53703

![](_page_18_Picture_20.jpeg)

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![](_page_18_Picture_24.jpeg)

![](_page_19_Figure_0.jpeg)

Autodesk Docs://20225013.00 - Village on Park Garage/202 11/29/2023 10:27:38 AM

2

![](_page_19_Figure_2.jpeg)

![](_page_19_Picture_3.jpeg)

![](_page_19_Picture_4.jpeg)

![](_page_19_Figure_5.jpeg)

A3 NORTH STAIR AND ELEVATOR LOBBY - HIGH ROOF

# GENERAL SHEET NOTES

- TYPICAL FLOOR = 10" TWO-WAY FLAT SLAB. ADDITIONAL TOP AND BOTTOM BARS AS NOTED ON PLAN. PROVIDE STANDARD 90-DEGREE HOOK ON ALL BARS THAT TERINATE NEAR SLAB EDGE
- TOP OF CONCRETE SLAB ELEVATION AS NOTED ON PLAN
- SEE "SCHEDULES" SHEET FOR CONCRETE BEAM AND SHEARHEAD SCHEDULES.
- MAINTAIN SPECIFIED SLAB THICKNESS THROUGHOUT FLAT SLAB UNLESS NOTED OTHERWISE.
- SEE ELECTRICAL, PLUMBING, FIRE PROTECTION, HVAC AND ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATIONS OF SLAB OPENINGS AND PIPE SLEEVES. PROVIDE SLEEVES WITH
- DIAMETER 1" LARGER THAN CONDUIT. ALL SLEEVES TO BE SCHEDULE 40 STEEL PIPE.
- NO RECESSED AREAS IN SLAB ARE ALLOWED WITHOUT PRIOR APPROVAL FROM THE STRUCTURAL ENGINEER.

# SHEET KEYNOTES

- 10 (2)#4 x 5'-0" LONG LOCATED 1" BELOW TOP OF SLAB. PROVIDE AT ALL SLAB RE-ENTRANT CORNERS. ALL LOCATIONS NOT SHOWN ON PLAN.
- ELEVATOR SAFETY/HOIST BEAM. VERIFY LOCATION AND ORIENTATION WITH ELEVATOR SUPPLIER.
   8" THICK HOLLOW CORE PRECAST PLANK. HOLLOW CORE PRECAST PLANK SUPERIMPOSED DEAD
- LOAD OF 15 PSF. SUPERIMPOSED ROOF LIVE LOAD OF 20 PSF. 18 PREFABRICATED ROOF ANCHOR/DAVIT, COORDINATE WITH OWNER'S VENDOR AND PRECAST SUPPLIER.

5

![](_page_19_Picture_21.jpeg)

SHEET NUMBER:

PROJEC	T INFORMATION:
PROJECT NUMBER:	20225013.00
DATE:	11/30/2023
DRAWN BY:	JLL
CHECKED BY:	BDM
APPROVED BY:	DFW
SCALE:	AS NOTED
	SHEET TITLE:
ENLARGED FLOOR	PLANS

808 HUGHES PLACE MADISON, WI 53713 ISSUE: 11/30/2023 BID DOCUMENTS

Madison, WI 53703 PROJECT TITLE: PHASE 1 VILLAGE ON PARK PARKING STRUCTURE AND GROCERY ALTERATION WORK

![](_page_19_Picture_26.jpeg)

Suite 161

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![](_page_19_Picture_30.jpeg)

![](_page_20_Figure_0.jpeg)

![](_page_20_Figure_1.jpeg)

![](_page_20_Figure_2.jpeg)

![](_page_20_Picture_4.jpeg)

PROJEC	T INFORMATION:
PROJECT NUMBER:	20225013.00
DATE:	11/30/2023
DRAWN BY:	JLL
CHECKED BY:	BDM
APPROVED BY:	DFW
SCALE:	AS NOTED
	SHEET TITLE:
ENLARGED FLOOR	PLANS

![](_page_20_Picture_6.jpeg)

PROJECT TITLE: PHASE 1 VILLAGE ON PARK PARKING STRUCTURE AND GROCERY ALTERATION WORK

![](_page_20_Picture_8.jpeg)

215 Martin Luther King Jr Blvd

Suite 161

Madison, WI 53703

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![](_page_21_Figure_0.jpeg)

![](_page_21_Figure_1.jpeg)

![](_page_21_Picture_2.jpeg)

![](_page_21_Picture_3.jpeg)

SOUTH STAIR - LEVEL SIX

4

![](_page_21_Picture_5.jpeg)

3

![](_page_21_Figure_6.jpeg)

![](_page_21_Figure_7.jpeg)

G

![](_page_21_Figure_8.jpeg)

5

![](_page_21_Picture_10.jpeg)

PROJECT NUMBER: 20225013.00 DATE: 11/30/2023 DRAWN BY: JLL BDM CHECKED BY: DFW APPROVED BY: AS NOTED SCALE: SHEET TITLE: ENLARGED FLOOR PLANS

PROJECT INFORMATION:

11/30/2023 BID DOCUMENTS

ISSUE:

808 HUGHES PLACE MADISON, WI 53713

PROJECT TITLE: PHASE 1 VILLAGE ON PARK PARKING STRUCTURE AND GROCERY ALTERATION WORK

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![](_page_21_Picture_18.jpeg)

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![](_page_21_Picture_22.jpeg)

![](_page_22_Figure_0.jpeg)

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![](_page_22_Figure_2.jpeg)

![](_page_22_Figure_3.jpeg)

![](_page_22_Figure_4.jpeg)

![](_page_22_Figure_5.jpeg)

![](_page_22_Figure_6.jpeg)

![](_page_22_Figure_7.jpeg)

![](_page_22_Picture_9.jpeg)

![](_page_22_Picture_10.jpeg)

	PROJEC	T INFORMATION:
PROJECT	NUMBER:	20225013.00
DATE:		11/30/2023
DRAWN BY	': :	JL
CHECKED	BY:	AMG
APPROVED	) BY:	DFW
SCALE:		AS NOTED
		SHEET TITLE:
FOUNDATI	ON DETA	ILS

11/30/2023 BID DOCUMENTS

![](_page_22_Picture_13.jpeg)

ISSUE:

PROJECT TITLE: PHASE 1 VILLAGE ON PARK PARKING STRUCTURE AND **GROCERY ALTERATION WORK** 

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![](_page_22_Picture_16.jpeg)

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 $\sim$ <u>8</u> Autodesk Docs://20225013. 11/29/2023 10:27:42 AM 2

(A3)

1/2" = 1'-0"

3

![](_page_23_Figure_3.jpeg)

3

4

![](_page_23_Figure_4.jpeg)

5

![](_page_23_Figure_5.jpeg)

5

![](_page_23_Picture_7.jpeg)

6

SHEET NUMBER:

PROJEC	CT INFORMATION:
PROJECT NUMBER	: 20225013.00
DATE:	11/30/2023
DRAWN BY:	JL
CHECKED BY:	AMG
APPROVED BY:	DFW
SCALE:	AS NOTED
	SHEET TITLE:
FOUNDATION DETA	NLS

![](_page_23_Picture_10.jpeg)

PROJECT TITLE: PHASE 1 VILLAGE ON PARK PARKING STRUCTURE AND GROCERY ALTERATION WORK

![](_page_23_Picture_12.jpeg)

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Suite 161

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![](_page_23_Picture_14.jpeg)

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![](_page_23_Picture_17.jpeg)

CONSULTANTS:

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![](_page_24_Figure_0.jpeg)

8

![](_page_24_Figure_1.jpeg)

![](_page_24_Figure_2.jpeg)

![](_page_24_Picture_4.jpeg)

GRAEF

![](_page_25_Figure_0.jpeg)

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2

![](_page_25_Figure_3.jpeg)

3

4

5

GROUP A = TOP BARS IN N-S DIRECTION, SEE PLAN

![](_page_25_Figure_6.jpeg)

GROUP A - SEE SCHEDULE

UNIFORMLY SPACED W

1.5T

1.5T

![](_page_25_Figure_7.jpeg)

6

1" = 1'-0"

5

![](_page_25_Picture_9.jpeg)

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![](_page_25_Picture_12.jpeg)

![](_page_26_Figure_0.jpeg)

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![](_page_26_Figure_2.jpeg)

![](_page_26_Picture_4.jpeg)

GRZEF

![](_page_27_Figure_0.jpeg)

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2

![](_page_27_Figure_3.jpeg)

![](_page_27_Picture_6.jpeg)

![](_page_27_Picture_7.jpeg)

PROJECT TITLE: PHASE 1 VILLAGE ON PARK PARKING STRUCTURE AND **GROCERY ALTERATION WORK** 

808 HUGHES PLACE

CDA Madison Municipal Building 215 Martin Luther King Jr Blvd Suite 161 Madison, WI 53703

![](_page_27_Picture_10.jpeg)

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![](_page_27_Picture_14.jpeg)

![](_page_28_Figure_0.jpeg)

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2

![](_page_28_Picture_2.jpeg)

SHEET NUMBER:

PROJEC	CT INFORMATION:
PROJECT NUMBER:	20225013.00
DATE:	11/30/2023
DRAWN BY:	JL
CHECKED BY:	AMG
APPROVED BY:	DFW
SCALE:	AS NOTED
	SHEET TITLE:
STRUCTURAL DETA	ALS

ISSUE: 11/30/2023 BID DOCUMENTS

![](_page_28_Picture_6.jpeg)

Madison Municipal Building 215 Martin Luther King Jr Blvd Suite 161 Madison, WI 53703 PROJECT TITLE:

PHASE 1 VILLAGE ON PARK

808 HUGHES PLACE MADISON, WI 53713

![](_page_28_Picture_8.jpeg)

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![](_page_28_Picture_12.jpeg)

![](_page_29_Figure_0.jpeg)

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# 

# 

# 

# 

![](_page_29_Picture_22.jpeg)

![](_page_29_Picture_23.jpeg)

GRaef

![](_page_30_Figure_0.jpeg)

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SHEARHEAD SCHEDULE							
HEAD NUMBER	ION (I, E, C)	ER OF RAILS	ER OF STUDS/RAIL	STUD SPACING	(INCH)	DIAMETER (INCH)	IN TYPE (S, C)
SHEAR	LOCAT	NUMBE	NUMBE	S1	S	STUD [	COLUN
SH01	-	12	6	3	5.75	3/4	S
SH02	Е	9	5	3	5.75	3/4	S
SH03	E	7	5	3	5.75	3/4	S
SH04	С	4	5	3	5.75	3/4	S
SH05	E	9	7	3	3.75	3/4	S

## SHEARHEAD SCHEDULE NOTES:

- 1. FOR LOCATION: I = INTERIOR, SEE INTERIOR COLUMN DETAIL THIS SHEET FOR SHEARHEAD LAYOUT. E = EXTERIOR, SEE EDGE COLUMN
- DETAIL THIS SHEET FOR SHEARHEAD LAYOUT. C = CORNER, SEE CORNER COLUMN DETAIL THIS SHEET FOR SHEARHEAD LAYOUT.
- 2. FOR COLUMN TYPE: S = SQUARE OR RECTANGULAR C = CIRCULAR
- 3. FOR SECTION AT STUDRAIL SEE STUDRAIL DIAGRAM DETAIL THIS SHEET.

(C4)

1/2" = 1'-0"

CONCRETE FOOTING SCHEDULE							
		SIZE		REINFORCEME	NT		
MARK	LENGTH	WIDTH	THICKNESS	BOTTOM	TOP	REMARKS	
F02	9'-0"	9'-0"	2'-0"	(7) #8 EACH WAY			
F03	12'-0"	12'-0"	2'-6"	(12) #8 EACH WAY			
F04	14'-0"	14'-0"	2'-8"	(18) #8 EACH WAY			
F05	16'-0"	21'-0"	2'-6"	(18) #8 SHORT, (13) #8 LONG			
F06	8'-0"	9'-0"	2'-0"	(6) #8 EACH WAY			

![](_page_30_Figure_12.jpeg)

CONCRETE COLUMN TYPES

- 2. PLACING TOLERANCES FOR ALL REINFORCEMENT TO CONFORM TO CRSI RECOMMENDED PRACTICES FOR PLACING REINFORCEMENT BARS
- PERTAINING TO BEAM SCHEDULE UNLESS NOTED OTHERWISE IN
- 4. SEE TYPICAL INTERIOR AND EXTERIOR BEAM DETAILS THIS SHEET FOR
- 5. SEE TYPICAL BEAM CONSTRUCTION JOINT DETAIL THIS SHEET FOR
- 6. PROVIDE INDIVIDUAL SHOP DRAWING PLANS AND SCHEDULES FOR
- WHEN CONTINUOUS TOP BARS ARE INDICATED IN SCHEDULE PROVIDE CLASS B TENSION LAP SPLICE AT CENTERLINE OF SPAN OF BEAM.

![](_page_30_Figure_22.jpeg)

- 3

![](_page_30_Figure_24.jpeg)

![](_page_30_Picture_25.jpeg)

TYPICAL EXTERIOR BEAM 1/2" = 1'-0"

![](_page_30_Figure_27.jpeg)

![](_page_30_Figure_28.jpeg)

	CONCRETE CO	LUMN SCH	EDULE			
MARK		C01	C02	C03	C04	C05
TOCC LEVEL SIX						
SEE PLAN	SIZE (WxL)	24" x 24"	24" x 24"	48" x 24"	16" x 16"	18" x 18"
	VERTICALS	(12) #9	(12) #8	(16) #8	(8) #8	(8) #8
	TIES	#4@9" OC				
	TYPE	IV	IV	IV		II II
TOCC LEVEL FIVE	CONCRETE STRENGTH (PSI)	5000	5000	5000	5000	5000
SEE PLAN	SIZE (WxL)	24" x 24"	24" x 24"	48" x 24"	16" x 16"	18" x 18"
	VERTICALS	(12) #9	(12) #8	(16) #8	(8) #8	(8) #8
	TIES	#4@9" OC				
	TYPE	IV	IV	IV		
TOCC LEVEL FOUR	CONCRETE STRENGTH (PSI)	5000	5000	5000	5000	5000
SEE PLAN	SIZE (WxL)	24" x 24"	48" x 24"	48" x 24"	16" x 16"	18" x 18"
	VERTICALS	(12) #9	(16) #8	(16) #8	(8) #8	(8) #8
	TIES	#4@9" OC				
	TYPE	IV	IV	IV		
TOCC LEVEL THREE	CONCRETE STRENGTH (PSI)	5000	5000	5000	5000	5000
SEE PLAN	SIZE (WxL)	24" x 24"	48" x 24"	48" x 24"	16" x 16"	18" x 18"
	VERTICALS	(12) #9	(16) #8	(16) #8	(8) #8	(8) #8
	TIES	#4@9" OC				
	TYPE	IV	IV	IV		I
TOCC LEVEL TWO	CONCRETE STRENGTH (PSI)	5000	5000	5000	5000	5000
SEE PLAN	SIZE (WxL)	24" x 24"	48" x 24"	48" x 24"	16" x 16"	18" x 18"
	VERTICALS	(12) #9	(16) #8	(16) #8	(8) #8	(8) #8
	TIES	#4@9" OC				
	TYPE	IV	IV	IV	=	
TOCC LEVEL ONE	CONCRETE STRENGTH (PSI)	5000	5000	5000	5000	5000
SEE PLAN	SIZE (WxL)	24" x 24"	48" x 24"	48" x 24"	16" x 16"	18" x 18"
	VERTICALS	(12) #9	(16) #8	(16) #8	(8) #8	(8) #8
	TIES	#4@9" OC				
	TYPE	IV	IV	IV		
TOF	CONCRETE STRENGTH (PSI)	5000	5000	5000	5000	5000

CONCRETE COLUMN SCHEDULE NOTES:

SEE PLAN

1. SEE TYPICAL COLUMN DIAGRAM DETAIL THIS SHEET FOR INFORMATION PERTAINING TO COLUMN SCHEDULE.

2. COLUMN REINFORCING TO BE CONTINUOUS OR TENSION-SPLICED IN ACCORDANCE WITH ACI 318-14, SECTION 25.5.7 BY WELDED OR MECHANICAL SPLICES. SPLICES OF ADJACENT BARS SHALL BE STAGGERED A MINIMUM OF 2'-6". LAP SPLICES IN COLUMNS SHALL NOT BE PERMITTED. \_\_\_\_\_ / EQUAL EQUAL EQUAL | EQU FOLIAL FOUAL \_/ - SEE NOTE 1 + $\chi \chi$ VERTICALS \_\_\_\_\_\_TI 1/2" CLEAR \_\_\_\_\_TI 1/ o"MIN 1 1/2" CLEAR 1 1/2" CLEAR LAPLENGTH TYPICAL <u>TYPE III</u> <u>TYPE II</u> TYPE IV <u>TYPE V</u>

1. STAGGER HOOK LOCATIONS FOR SUCCESSIVE CIRCULAR TIES. ADJACENT CIRCULAR TIES SHOULD NOT ENGAGE THE SAME LOGITUDINAL BAR.

![](_page_30_Figure_34.jpeg)

NOTE: PROVIDE HOLES IN EMBED PLATES TO ACCOMODATE LIGHT POLE ANCHOR BOLTS. PROVIDE SLOTTED HOLE TO ACOOMODATE EMBEDDED CONDUITS. COORDINATE SIZES AND LOCATIONS WITH ELECTRICAL SUBCONTRACTOR.

![](_page_30_Picture_36.jpeg)

- 5

![](_page_30_Figure_37.jpeg)

![](_page_30_Picture_38.jpeg)

![](_page_30_Picture_39.jpeg)

PROJEC	T INFORMATION:
PROJECT NUMBER:	20225013.00
DATE:	11/30/2023
DRAWN BY:	JL
CHECKED BY:	AMG
APPROVED BY:	DFW
SCALE:	AS NOTED
	SHEET TITLE:
SCHEDULES	

![](_page_30_Picture_41.jpeg)

PROJECT TITLE: PHASE 1 VILLAGE ON PARK PARKING STRUCTURE AND **GROCERY ALTERATION WORK** 

808 HUGHES PLACE

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![](_page_30_Picture_44.jpeg)

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![](_page_30_Picture_48.jpeg)

![](_page_31_Figure_0.jpeg)

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22

IARKS
MENTS, SEE DETAIL FOR S1, S2 SPACING
CATIONS WITH POST TENSIONING. SEE NOTE 2
ERTICAL EDGE DISTANCE = 5" WITH 14" LONG HWS
PACING
NATED WITH CANOPY SUPPLIER
PLANS AND NOTE 2

MASONRY WALL SCHEDULE				
MARK	NOMINAL THICKNESS	TYPE	VERTICAL REINFORCEMENT	REMARKS
MW1	8"	А	#5@48" OC	
MW2	10"	В	#5@16" OC	

- 1. PROVIDE TYPICAL VERTICAL REINFORCEMENT AT WALL ENDS AND EACH SIDE OF CONTROL JOINTS. REINFORCE FIRST TWO CELLS EACH SIDE OF OPENINGS FULL HEIGHT OF WALL. WHERE THE USE OF STEEL OR PRECAST LINTELS INTERRUPTS VERTICAL CONTINUITY OF WALL REINFORCEMENT, SHIFT REINFORCED CELLS PAST LINTEL BEARING AND GROUT WALL SOLID BELOW ENDS OF LINTELS.
- 2. PROVIDE DOWELS FOR VERTICAL REINFORCEMENT INTO FOUNDATION WALLS AND FOOTINGS BELOW PER DETAILS.
- 3. SEE GENERAL NOTES AND DETAILS FOR HORIZONTAL JOINT REINFORCEMENT AND BOND BEAM REQUIREMENTS.
- 4. UNLESS DETAILED OR OTHERWISE CALLED OUT, PROVIDE CMU LINTELS PER LINTEL SCHEDULE OVER OPENINGS IN MASONRY WALLS.
- 5. PROVIDE CONTINUOUS HORIZONTAL JOINT REINFORCEMENT IN ALL WALLS AS PER SPECIFICATIONS.
- 6. OPENINGS IN WALLS PROVIDED FOR MECHANICAL DUCTWORK SHALL BE CENTERED IN BETWEEN BEAM BEARING LOCATIONS OR POSITIONED WITH THE NEAREST EDGE NO CLOSER THAN 24" EITHER SIDE OF BEAM BEARING LOCATIONS.
- 7. SEE PLAN AND DETAILS FOR ADDITIONAL WALL REINFORCEMENT AND GROUTING REQUIREMENTS NOT COVERED IN THIS SCHEDULE.

![](_page_31_Figure_11.jpeg)

![](_page_31_Figure_12.jpeg)

- 3

- GROUT WALL SOLID 1'-4" H x 1'-4" V AT BEAM BEARING LOCATIONS

## LINTEL SCHEDULE

RK	TYPE	SIZE	BEARING LENGTH	REMARKS					
A	I	8" BOND BEAM WITH (2) #5 BOTTOM	8"	ALL INTERIOR NON-LOAD BEARING WALL OPENINGS LESS THAN OR EQUAL TO 6'-0". SEE DETAIL A.					
A	II	16" BOND BEAM WITH (2) #5 BOTTOM (FOR OPENINGS LESS THAN OR EQUAL TO 10'-0")	8"	ALL INTERIOR NON-LOAD BEARING WALL OPENINGS GREATER THAN 6'-0" BUT LESS THAN OR EQUAL TO 12'-0". SEE DETAIL A.					
1	I	8" BOND BEAM WITH (2) #5 BOTTOM	8"	SEE DETAIL B					
2	Ш	16" BOND BEAM WITH (2) #5 BOTTOM	8"	SEE DETAIL B					
				·					

LINTEL SCHEDULE NOTES:

1. SEE ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATION OF ALL OPENINGS.

2. COORDINATE BOTTOM OF LINTEL ELEVATION WITH ARCHITECTURAL DRAWINGS.

3. ALL DIMENSIONS ARE NOMINAL MASONRY DIMENSIONS UNLESS NOTED OTHERWISE.

4. PROVIDE MINIMUM 6" BEARING EACH END UNLESS NOTED OTHERWISE.

5. FOR PRECAST CONCRETE LINTELS, WIDTH OF LINTEL = NOMINAL MASONRY WALL THICKNESS - 3/8".

6. FOR CMU LINTELS, CONTRACTOR TO PROVIDE TEMPORARY SHORING UNTIL MASONRY HAS PROPERLY SET (3 DAYS MINIMUM).

7. FOR STEEL LINTELS, PROVIDE 1/4" BOTTOM PLATE UNLESS NOTED OTHERWISE. WIDTH OF PLATE = NOMINAL MASONRY THICKNESS (INCLUDING VENEER) - 1" EXTEND PLATE FULL LENGTH OF LINTEL UNLESS NOTED OTHERWISE.

8. FOR STEEL LINTELS GREATER THAN OR EQUAL TO 12'-0" LONG, PROVIDE 1/2" DIAMETER x 4" LONG HEADED WELDED STUDS AT 32" OC ON TOP FLANGE. STEEL LINTELS LESS THAN 10'-0" LONG MAY BE PLACED LOOSE WITHOUT ANCHOR BOLTS OR BEARING PLATES, UNLESS NOTED OTHERWISE.

9. ALL STEEL LINTELS TO HAVE Fy = 50 KSI.

10. PROVIDE LOOSE LINTELS PER ARCHITECTURAL, SEE TYPE III AND DETAIL A.

![](_page_31_Figure_27.jpeg)

![](_page_31_Figure_28.jpeg)

5

![](_page_31_Picture_30.jpeg)

SHEET NUMBER:

SCALE:	AS NOTED				
	SHEET TITLE:				
MISCELLANEOUS SCHEDULES					

DATE: DRAWN BY: CHECKED BY: APPROVED BY: DFW

11/30/2023 JL AMG

PROJECT INFORMATION: PROJECT NUMBER: 20225013.00

11/30/2023 BID DOCUMENTS

808 HUGHES PLACE MADISON, WI 53713

ISSUE:

PROJECT TITLE: PHASE 1 VILLAGE ON PARK PARKING STRUCTURE AND **GROCERY ALTERATION WORK** 

Madison Municipal Building 215 Martin Luther King Jr Blvd Suite 161 Madison, WI 53703

![](_page_31_Picture_42.jpeg)

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