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SHEET INDEX					
SHEET NUMBER	SHEET TITLE				
G000	COVER SHEET				
C001	CIVIL GENERAL NOTES & LEGENDS				
C002	CIVIL GENERAL NOTES & LEGENDS				
CD01	EXISTING CONDITIONS & DEMOLITION PLAN				
C101	SITE PLAN - OVERALL				
C102	SITE PLAN - WEST				
C103	SITE PLAN - EAST				
C201	GRADING PLAN - OVERALL				
C202	GRADING PLAN - WEST				
C203	GRADING PLAN - EAST				
C250	STORMWATER POLLUTION PREVENTION PLAN - PRE-DURING CONSTRUCTION				
C251	STORMWATER POLLUTION PREVENTION PLAN - POST CONSTRUCTION				
C301	UTILITY PLAN				
C501	CONSTRUCTION DETAILS				
E501	ELECTRICAL SITE DETAILS				
L101	LANDSCAPE PLAN - OVERALL				
S1.01	RESTROOM STRUCTURAL GENERAL NOTES				
S1.02	RESTROOM SPECIAL INSPECTIONS				
S1.03	RESTROOM STRUCTURAL PLANS				
S1.04	RESTROOM STRUCTURAL DETAILS				
A001	ARCHITECTURAL GENERAL INFORMATION				
A1.01	RESTROOM PLANS				
A2.01	RESTROOM ELEVATIONS				
A3.01	BUILDING SECTION AND DETAILS				

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	<u> </u>	GENERA	L NOTES		4	FIXT
	1		ALL CONSTRUCTION PUBLIC OR PRIVATE SHALL BE IN ACCORDANCE	CE WITH IOWA STATEWIDE URBAN DESIGN AND	4.	TO (
	.	•	SPECIFICATIONS (SUDAS) AS AMENDED BY JOHNSON COUNTY, UN	ILESS OTHERWISE NOTED ON THE DRAWINGS.	5.	REM
	2	2.	ALL DIMENSION ARE TO BACK OF CURB UNLESS OTHERWISE NOTE	ED.		GRA
	3	8.	THE LOCATIONS OF UTILITY MAINS, STRUCTURES, AND SERVICE C	CONNECTIONS PLOTTED ON THIS DRAWING ARE APPROXIMATE	C	QUA
			MAINS. STRUCTURES AND SERVICE CONNECTIONS NOT KNOWN TO	O SHIVE-HATTERY, INC. THERE MAY BE OTHER EXISTING UTILITY O SHIVE-HATTERY, INC. AND NOT SHOWN ON THIS DRAWING.	0.	CON
			THE VERIFICATION OF EXISTENCE OF, AND THE DETERMINATION C	OF THE EXACT LOCATION OF, UTILITY MAINS, STRUCTURES AND		REM
			SERVICE CONNECTIONS SHALL BE THE RESPONSIBILITY OF THE C	ONSTRUCTION CONTRACTOR(S).		CON
	1 4		NOTIFY UTILITY COMPANIES WHOSE FACILITIES ARE SHOWN ON THE SCHEDULE PRIOR TO EACH STAGE OF CONSTRUCTION NOTIF	HE PLANS OR KNOWN TO BE WITHIN CONSTRUCTION LIMITS OF	7.	
			HOURS PRIOR TO BEGINNING CONSTRUCTION ON ANY FACILITIES	OWNED OR OPERATED BY THAT UTILITY.		NOT
	5	5.	PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL FIELD VERIFY	Y ALL DIMENSIONS, COORDINATES, ELEVATIONS, AND UTILITIES	8.	ALL
			AT CRITICAL LOCATIONS TO VERIFY EXACT HORIZONTAL AND VER	TICAL LOCATIONS. IMMEDIATELY NOTIFY THE ENGINEER OF		SITE
	F	5	ANY DISCREPANCIES SO THE CONFLICT MAY BE RESOLVED.	UCTED IN ACCORDANCE WITH THE RULES AND REGULATIONS		PER
			AND TO THE SATISFACTION OF THE APPLICABLE UTILITY OWNER(S	5).	9.	THE
	7		IOWA CODE 480, UNDERGROUND FACILITIES INFORMATION, REQUI	RES VERBAL NOTICE TO IOWA ONE-CALL 1-800-292-8989, NOT		ALL
	8	3.	NOTIFY THE APPROPRIATE GOVERNING AUTHORITY 48-72 HOURS I	PRIOR TO BEGINNING CONSTRUCTION WITHIN PUBLIC		SHA
			RIGHT-OF-WAY. JOHNSON COUNTY SHALL BE THE PUBLIC AGENCY	Y RESPONSIBLE FOR INSPECTION DURING CONSTRUCTION OF		MEA
		,	THE PUBLIC PORTIONS OF THE PROJECT.			DOC
			OF THEIR FACILITIES.	RDING RELOCATION, ADJUSTMENT, OR TEMPORARY SUPPORT	10.	THE
	1	0.	THE MEANS OF THE WORK AND THE SAFETY OF THE CONTRACTOR	R'S EMPLOYEES ARE SOLELY THE RESPONSIBILITY OF THE		PRO
		4	CONTRACTOR.			MISC
	1	1.	REPRESENTATIVE.	THOUT PRIOR AUTHORIZATION FROM THE OWNER'S		FOR
	1	2.	A PRE-CONSTRUCTION MEETING SHALL BE HELD FOLLOWING ISSU	JANCE OF THE NOTICE TO PROCEED BUT PRIOR TO	11.	CON
		0	COMMENCING WORK.		40	OPE
	1	з.	ABUT PUBLIC THROUGH-FARES AND ADJACENT PROPERTY	S SHALL BE PROVIDED WHERE CONSTRUCTION OPERATIONS	12.	CON GOV
	1	4.	ALL AREAS DISTURBED BY THE GENERAL CONTRACTOR OR SUB-C	CONTRACTORS SHALL BE RETURNED TO THE ORIGINAL	13.	ALL
		-	CONDITION OR BETTER, EXCEPT WHERE PROPOSED CONSTRUCTI	ION IS INDICATED ON THE PLANS.		MISC
	2	5.	COMPLIANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL	DE MEASURES (SIGNS, BARRICADES, FLAGGERS, ETC.) IN DEVICES (MUTCD) LATEST EDITION AND JOHNSON COUNTY		LEG
	-		STANDARDS.		14.	VOIE
	1	6.	ALL CONSTRUCTION STAKING, SCHEDULING, AND PAYMENT IS THE	E RESPONSIBILITY OF THE CONTRACTOR.		SHA
	1	7.	CURBS, PAVEMENT, UTILITIES, ETC.) NOT SPECIFICALLY NOTED FC	TO WALLS, TREES, LANDSCAPING, DRIVEWAYS, SIDEWALKS, DR REMOVAL, FEATURES NOT DESIGNATED FOR REMOVAL	15.	
			THAT ARE DAMAGED OR REMOVED BY THE CONTRACTOR SHALL B	BE REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S		DRA
					10	OTH
	1	8.	CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE ON THE SITE	THROUGHOUT CONSTRUCTION. ANY DAMAGE CAUSED BY A	16.	
	1	9.	CONTRACTOR SHALL ADJUST ALL VALVES, MANHOLES, CASTINGS,	, GAS VENTS, ETC., TO MATCH THE NEW SURFACE.		AND
			ADJUSTMENT SHALL BE COORDINATED WITH THE UTILITY COMPAN	NIES AND THE COST FOR ALL ADJUSTMENTS SHALL BE	17.	ALL
			INCIDENTAL TO THE CONSTRUCTION. AT NO ADDITIONAL COST TO AND APPURTENANCES THAT OCCUR DURING CONSTRUCTION	) THE OWNER, REPAIR ANY DAMAGE TO SAID STRUCTURES	18	BY E
$\vdash$	-2	20.	CONTRACTOR SHALL REFER TO BUILDING PLANS FOR BUILDING DI	IMENSIONS, STOOP SIZES AND LOCATIONS, AND BUILDING	10.	REM
			UTILITY ENTRANCE LOCATIONS AND ELEVATIONS.			CON
	2	21.	SITE CLEAN-UP SHALL BE PERFORMED ON A DAILY BASIS. SIDEWA	ALKS, PARKING LOTS, ROADWAYS, ETC. SHALL BE KEPT CLEAN	19	NON THE
	2	22.	KEEP ADJACENT PUBLIC STREETS AND IMPROVED LAND FREE FRO	OM SOIL AND DEBRIS GENERATED BY THE PROJECT.	10.	OF F
	2	27.	CONTROL DUST FROM ALL WORK AND STAGING AREAS.			FIEL
	2	28. 29	ALL OPEN EXCAVATIONS SHALL BE PROTECTED IN ACCORDANCE	WITH REGULATORY REQUIREMENTS.		
		.0.	SURVEYOR REGISTERED TO PRACTICE IN THE STATE OF IOWA.		19.1	
	3	80.	CONSTRUCTION ACTIVITIES ARE TO BE LIMITED TO THE EXISTING I	RIGHT-OF-WAY, TEMPORARY CONSTRUCTION EASEMENTS, OR	19.2	·-
			LIMITS OF THE PROJECT AS INDICATED ON THE PLANS. IF ADDITIO	NAL AREAS ARE NEEDED FOR STAGING, STORAGE, ETC., IT IS	19.3	•
	3		AGREEMENTS SHALL BE SUBMITTED TO THE OWNER'S REPRESEN	TATIVE PRIOR TO THE USE OF PROPERTY.	EROSI	<u>ON CO</u>
	3	81.	ALL INSPECTIONS REQUIRED FOR PUBLIC OR PRIVATE IMPROVEMI	ENTS SHALL BE FACILITATED BY THE OWNER.	1.	USE
	3	32.	REPAIR OR REPLACE EXISTING FACILITIES (CURBS, PAVEMENT, UT	ILITIES, ETC.) TO REMAIN, AT NO ADDITIONAL EXPENSE TO THE		CON
	:	33.	IT IS INTENDED THAT ALL COSTS OF MATERIALS, EQUIPMENT, TOO	LS, LABOR, AND INCIDENTALS BE PAID FOR UNDER THE ITEMS	2.	ERO
			LISTED ON THE BIDDER'S PROPOSAL. BEFORE SUBMITTING A BID	ON THIS PROJECT, THE CONTRACTOR SHALL EXAMINE ALL	3. 4	SILT
			DRAWINGS, SPECIFICATIONS, SPECIAL PROVISIONS, AND THE JOB	SITE. IF ANY DISCREPANCIES OR DELETIONS OCCUR IN THE	••	SEC
			WRITING AND OBTAIN WRITTEN CLARIFICATION AND/OR INSTRUCT	TONS ON HOW TO PROCEED.	070-	
	3	84.	WORK WHICH DOES NOT CONFORM TO THE REQUIREMENTS OF TH	HE CONTRACT WILL BE CONSIDERED UNACCEPTABLE.	SIORM	<u>1 VVATE</u>
			UNACCEPTABLE WORK, WHETHER THE RESULT OF POOR WORKMA	ANSHIP, USE OF DEFECTIVE MATERIALS, DAMAGE THROUGH	1.	A ST
			AND REPLACED IN AN ACCEPTABLE MANNER, AS REQUIRED BY SH	IVE-HATTERY, INC. AT THE CONTRACTOR'S EXPENSE. WORK	~	BE F
			DONE CONTRARY TO THE INSTRUCTIONS OF SHIVE-HATTERY, INC.	, WORK DONE BEYOND THE LINES SHOWN ON THE PLANS, OR	2.	
		25	ANY EXTRA WORK DONE WITHOUT AUTHORITY WILL NOT BE PAID I	FOR.		CON
	3	<i>.</i>	SUBSURFACE CONDITIONS ARE ENCOUNTERED, THE CONTRACTO	R SHALL NOTIFY THE OWNER REPRESENTATIVE IMMEDIATELY.	3.	THE
			THE CONTRACTOR SHALL VISIT THE SITE AND ACQUAINT HIM/HERS	SELF WITH ALL EXISTING CONDITIONS PRIOR TO	Λ	ACC
			BIDDING/CONSTRUCTION. POTENTIAL CONTRACTORS MAY MAKE A	A SUBSURFACE INVESTIGATION TO SATISFY THEMSELVES AS	ч.	то т
			COMMENCEMENT. A JOINT UTILITY MEETING AND LOCATE WILL BE	E REQUIRED PRIOR TO ANY EXCAVATION OPERATIONS.		
					<u>GRADI</u>	NG NO
	5	SITE PRI	EPARATION NOTES		1.	STR
	4  1		PROVIDE WASTE AREAS OR DISPOSAL SITES FOR EXCESS MATERI	IAL (EXCAVATED MATERIAL OR BROKEN CONCRETE) WHICH IS	2.	STR
	-		NOT DESIRABLE TO BE INCORPORATED INTO THE WORK INVOLVED	O ON THIS PROJECT. NO PAYMENT FOR OVERHAUL WILL BE		EXC TOP
			ALLOWED FOR MATERIAL HAULED TO THESE SITES. NO MATERIAL SPECIFICALLY STATED IN THE PLANS OF ADDROVED BY THE ENGINE	SHALL BE PLACED WITHIN THE EASEMENTS, UNLESS	3.	PRO
			ENGINEER. CONTRACTOR SHALL APPLY NECESSARY MOISTURE T	O THE CONSTRUCTION AREA AND TEMPORARY HAUL ROADS		IDEN
			TO PREVENT THE SPREAD OF DUST. OFF-SITE DISPOSAL SHALL BI	E IN ACCORDANCE WITH THE APPLICABLE GOVERNMENTAL	4	DEN REM
		)	REGULATIONS. WHERE A SECTION OF PAVEMENT CURR AND CUTTED OP SIDE WA			MOIS
			THE ENTIRE SECTION SHALL BE REMOVED AND REPLACED. PAVEN	MENT, CURBS, GUTTERS, AND SIDEWALKS SHALL BE REMOVED	5.	SCA
			A MINIMUM OF TWO FEET BEYOND THE EDGE OF THE TRENCH CUT	TAND TO THE NEAREST JOINT.		CON SUR
	3	<b>i</b> .	DOUBLE SAWCUT EDGES OF PAVEMENT FULL DEPTH PRIOR TO RE	INIOVAL TO PREVENT DAMAGE TO ADJACENT SLABS AND		
			Α	В		

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	D	6	
URES. 1411 BE THE CONTRACTOR'S RESPONSIBILITY TO PROTE	CT ALL TREES AND SHRUBS IN PROJECT AREA FROM DAMAGE DUE	6.	DO NOT PLACE, SPREAD, OR COMPACT ANY FILL MATERIAL
ONSTRUCTION ACTIVITY UNLESS SHOWN ON THE PLANS	OR DIRECTED BY THE OWNER'S REPRESENTATIVE.	7.	PLACE FILL MATERIAL IN 8 INCH MAXIMUM LIFTS AND COMP
OVAL AND DISPOSAL OF EXISTING TREES AND SHRUBS V	VITHIN CONSTRUCTION LIMITS SHALL BE INCIDENTAL TO THE		98% STANDARD PROCTOR DENSITY FOR BUILDING PAD. FI
DING PORTION OF THE PROJECT. STUMPS ARE TO BE G	ROUND TO TWO FEET BELOW FINISHED GRADE. TREES THAT		OTHER DELETERIOUS SUBSTANCES.
LIFY FOR ENDANGERED BAT HABITAT ARE TO BE FELLED	BETWEEN OCTOBER 1ST AND MARCH 31ST.	8.	FILLS PLACED BELOW LAWN AREAS SHALL BE COMPACTED
DITION SALVAGED MATERIALS MAY BE USED UPON APP	ROVAL OF THE OWNER'S REPRESENTATIVE FENCES SHALL NOT BE	9	(ASTM D098). FILL MATERIAL OBTAINED FROM OFF-SITE SOURCES SHALL
OVED UNTIL PROPERTY OWNER HAS BEEN NOTIFIED. TE	MPORARY FENCING MAY BE REQUIRED OVERNIGHT DURING	0.	AND OTHER DELETERIOUS SUBSTANCES. IT SHALL CONTA
STRUCTION AND SHOULD BE INCIDENTAL TO THE PROJE	CT.		NOT MORE THAN 15% OF THE ROCKS OR LUMPS SHALL BE
TRACTOR SHALL OBTAIN ALL NECESSARY DEMOLITION P	ERMITS AND COORDINATE ALL DEMOLITION WORK WITH THE	10.	FILL PLACED IN AREAS TO BE PAVED SHOULD CONSIST OF
ICIPALITY AND OWNERS REPRESENTATIVE TO ENSURE F	ROTECTION AND MAINTENANCE OF EXISTING SITE FEATURES NOT	4.4	DEBRIS.
ED FOR REMOVAL. EROSION AND SEDIMENTATION CONTROL MEASURES AN	D DEVICES SHALL BE INSTALLED AND FUNCTIONAL BEFORE THE	11.	MAINTAIN OPTIMUM MOISTURE CONTENT OF FILL MATERIAL MATERIAL OF LOW/ PLASTICITY COHESIVE SOILS WITHIN -29
IS OTHERWISE DISTURBED. THEY SHALL BE KEPT OPER	ATIONAL AND MAINTAINED CONTINUOUSLY THROUGHOUT THE		MATERIAL OF ECONTRASTICITY CONLESIVE SOLES WITHIN -27
OD OF LAND DISTURBANCE UNTIL PERMANENT SITE STA	BILIZATION HAS BEEN ACHIEVED (SEE STORMWATER POLLUTION	12.	GRADING TOLERANCES: GRADE AREAS ADJACENT TO SUB
VENTION PLAN FOR ADDITIONAL INFORMATION AND DETA	NLS).		PREVENT PONDING. FINISH SURFACES FREE FROM IRREGU
PURPOSE OF THIS DRAWING IS TO CONVEY THE OVERAL	L SCOPE OF DEMOLITION WORK AND IT IS NOT INTENDED TO COVER	12.1.	
LETAILS OR SPECIFICATIONS REQUIRED TO COMPLY WIT	H GENERALLY ACCEPTED DEMOLITION PRACTICES. CONTRACTOR	12.2. 12.3	GRADING SUBFACES OF FULLUNDER BUILDING SU
PRIOR TO BIDDING AND COMMENCING THE WORK. THE I	DEMOLITION CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR	12.3.	SUBGRADE SURFACES: +/- 0.15 FEET
NS, METHODS, TECHNIQUES, OR PROCEDURES USED TO	COMPLETE THE WORK IN ACCORDANCE WITH THE CONSTRUCTION	13.	CONTRACTOR SHALL CAREFULLY PRESERVE ALL SITE BEN
UMENTS AND IS LIABLE FOR THE SAFETY OF THE PUBLIC	AND CONTRACTOR'S EMPLOYEES DURING THE COURSE OF THE		OPERATIONS.
		14.	CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE TO ALL
DEMOLITION PLAN IS INTENDED TO SHOW REMOVAL OF I	NOWN SHE FEATURES AND UTILITIES AS SHOWN ON THE SURVEY	15	SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDIT
ELLANEOUS ITEMS BOTH BURIED AND ABOVE GROUND	THAT ARE WITHIN THE LIMITS OF WORK THAT MAY REQUIRE	13.	NOT EXCEED 2% AND 5%. RESPECTIVELY.
OVAL FOR THE PROPOSED SITE IMPROVEMENTS BUT TH	AT ARE NOT SHOWN HEREIN. THE CONTRACTOR IS RESPONSIBLE	16.	MAXIMUM SLOPES WITHIN THE ADA ACCESSIBLE PARKING
THE REMOVAL OF SUCH ITEMS AT NO ADDITIONAL COST	TO THE OWNER.	17.	MAXIMUM GRADE DIFFERENCE BETWEEN PAVEMENT SURF
TRACTOR SHALL CONTACT THE RESPECTIVE UTILITY CO	MPANIES PRIOR TO COMMENCING ANY SITE DEMOLITION		ROUTE TO THE RESTROOM SHALL NOT EXCEED 1/4 INCH VI
RATIONS TO COORDINATE DISCONNECTION AND REMOVA	AL OF EXISTING UTILITIES WITHIN THE PROPOSED AREA OF WORK.	18.	ALL ADA ACCESSIBLE EXTERIOR DOORWAY LOCATIONS RE
ERNING AUTHORITIES.	STING ROADWATS AND UTILITIES WITH THE NECESSART	19.	EXCAVATION SHORING SHALL BE DONE AS NECESSARY FO
EXISTING BUILDINGS, FOUNDATIONS, CONCRETE OR ASF	HALT PAVEMENT OR WALKS, CURB AND GUTTER, AND		PERSONNEL. SHORING SHALL BE IN ACCORDANCE WITH AL
ELLANEOUS STRUCTURES (INCLUDING, BUT NOT LIMITEI	TO FENCES, POLES, YARD LIGHTS, ELECTRICAL PANELS, WHEEL	20.	ALL UNSUITABLE OR EXCESS MATERIAL SHALL BE DISPOSE
PS, AND MISCELLANEOUS DEBRIS) NOTED TO BE REMOV	ED SHALL BE DEMOLISHED, REMOVED FROM THE SITE, AND	21.	ALL TESTING, INSPECTION AND SUPERVISION OF SOIL QUA
ALLY DISPOSED OF BY THE CONTRACTOR.		22	SOILS RELATED OPERATIONS SHALL BE THE RESPONSIBILI
BE BACKFILLED IN ACCORDANCE WITH SUDAS SPECIE	CATION AND THE PROJECT SPECIFICATIONS	22.	THICKNESS OF THE PROPOSED PAVEMENT SECTION (ROAD
OON AS DEMOLITION WORK HAS BEEN COMPLETED, FIN	AL GRADE OF BACKFILL IN DEMOLITION AREAS SHALL BE	23.	CONTRACTOR SHALL PROVIDE SMOOTH VERTICAL CURVES
PACTED PER SUDAS SPECIFICATIONS TO PRESENT A NE	AT, WELL DRAINED APPEARANCE, AND TO PREVENT WATER FROM		ELEVATIONS ON THE PLANS. CONTRACTOR SHALL PROVIDE
NING UNNECESSARILY ONTO ADJACENT PROPERTIES. C	ONTRACTOR SHALL PROVIDE TEMPORARY DIVERSION SWALES OR		ANY RIDGES AND/OR DEPRESSIONS AS IDENTIFIED ON THE
ER MEANS OF MAINTAINING ADEQUATE SITE DRAINAGE.		24.	ALL PROPOSED GRADING, PAVEMENT, APRONS, CURBS, W
NOTED TO BE REMOVED SHALL BE REPAIRED AT CONTR	ACTOR'S EXPENSE AND TO THE SATISFACTION OF THE OWNER	25.	ALL EXISTING AND PROPOSED TOP OF RIM ELEVATIONS FC
OR ENGINEER.	ACTORS EXILENSE AND TO THE SATISFACTION OF THE SWITCH	26.	CONTRACTOR SHALL ENSURE POSITIVE SITE DRAINAGE AT
FIRE ACCESS LANES WITHIN THE PROJECT AREA SHALL I	REMAIN IN SERVICE, CLEAN OF DEBRIS, AND ACCESSIBLE FOR USE		OPERATIONS. FAILURE TO PROVIDE ADEQUATE DRAINAGE
MERGENCY VEHICLES.			COMPENSATION REQUESTED DUE TO DELAYS OR UNSUITA
EXISTING SANITARY SEWERS, STORM SEWERS, WATER N	IAINS OR IRRIGATION LINES AND APPURTENANCES NOTED FOR	27.	DRIVEWAYS SHALL BE CONSTRUCTED SO AS NOT TO IMPER
UVAL WITHIN THE AREA OF THE PROPOSED CONSTRUCT	ION SHALL BE REMOVED FROM THE SITE AND DISPOSED OF BY THE GGED AT BOTH ENDS WITH A MINIMUM OF TWO (2) FEET LONG	28.	FINISH CONTOURS AND SPOT ELEVATIONS SHOWN ARE TO
-SHRINK CONCRETE MORTAR PLUGS UNLESS OTHERWIS	E NOTED.	29.	UNSUITABLE SOILS MAY EXIST IN THE AREAS OF THE SITE I
CONTRACTOR SHALL NOTIFY THE ENGINEER IF A FIELD (	OR DRAIN TILE IS ENCOUNTERED AND SHALL INDICATE THE METHOD		REPLACED WITH STABILIZED SUBGRADE (CRUSHED AGGRE
ESOLVING THE CONFLICT. THE ENGINEER SHALL APPRO	VE THE PROPOSED METHOD. A RECORD OF THE LOCATION OF ALL		IF UNSUITABLE SOILS ARE ENCOUNTERED DURING CONSTR
D TILE OR DRAIN PIPE ENCOUNTERED SHALL BE KEPT BY	THE CONTRACTOR AND TURNED OVER TO THE OWNER AND/OR		SOILS ARE PROPERLY REMOVED AND REPLACED BY STABI
INEER UPON COMPLETION OF THE PROJECT AND ACCUR	ATELY SHOWN ON THE RECORD DRAWINGS. EXISTING FIELD TILE		NOTES
CONNECT TILE TO THE NEAREST STORM SEWER.	BT THE CONTRACTOR IN ONE OF THE FOLLOWING WATS.		
DAYLIGHT TO FINISHED GROUND.		1.	ALL SEWERS AND DRAINS SHALL FOLLOW DIVISION 4 SUDA
REPAIR TILE AND MAINTAIN SERVICE.		2.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING
NTROL NOTES			GROUNDWATER MONITORING WELLS ARE DAMAGED DURIN
ALL AVAILABLE MEANS TO MINIMIZE THE AMOUNT OF SO	IL EROSION CAUSED BY THE WORK OF THE PROJECT. THIS	2	WELL CONTRACTOR.
UDES RESPONSIBILITY FOR MAINTENANCE OF ALL SOIL E	ROSION CONTROL DEVICES INDICATED. REPAIRS TO SOIL EROSION	3.	SEWERS STORM SEWERS FTC. ANY CONFLICTS MUST IM
TROL DEVICES SHALL BE COMPLETED WITHIN 2 DAYS FR	OM NOTIFICATION.	4.	SITEWORK UTILITY CONTRACTOR TO EXTEND ALL PIPING T
SION CONTROL DEVICES SHALL BE CHECKED ONCE PER	WEEK AND AFTER EACH RAINFALL TO ENSURE WORKING ORDER.		BUILDING UTILITY CONTRACTOR UNLESS OTHERWISE INDIC
FENCE SHALL BE LOCATED AS SHOWN ON THE PLANS.	DAYS WITH A STABILIZING CROP PER IOWA DOT SPECIFICATIONS		WITH BUILDING PLANS.
TION 2601.		5.	CONTRACTOR SHALL EXCAVATE AND VERIFY IN FIELD ALL
			AT PROPOSED POINTS OF CONNECTION PRIOR TO COMME
R POLLUTION PREVENTION PLAN		6.	ADJUSTMENTS TO EXISTING UTILITY STRUCTURE MANHOL
			REPLACED AS NEEDED TO ADJUST TO THE PROPOSED ELE
ORM WATER POLLUTION PREVENTION PLAN (SWPPP) IS I	NCLUDED IN THE PROJECT DOCUMENTS. THE CONTRACTOR SHALL		MANHOLE CASTINGS EXTENDING INTO PAVEMENT SHALL M
CONTRACTOR AND ALL SUBCONTRACTORS ARE REQUIR	ED TO SIGN A COPY OF THE CERTIFICATION STATEMENT	_	NECESSARY.
TAINED IN THE PLAN, PRIOR TO START OF CONSTRUCTIO	N. THE SIGNED COPIES SHALL BE KEPT WITH THE SWPPP IN THE	۲. ۶	CONTRACTOR TO COORDINATE EDANCHISE LITHUTES
TRACTORS FIELD OFFICE UNTIL THE PROJECT IS COMPL	ETE.	9.	SEE STRUCTURAL PLANS FOR FOUNDATION DRAIN DESIGN
CONTRACTOR SHALL PROVIDE INSPECTION OF THE CON	STRUCTION SITE AND MAINTAIN INSPECTION RECORDS IN	10.	ALL PROPOSED CONNECTIONS TO EXISTING UTILITY STRU
UKDANCE WITH THE SWPPP.			GOVERNING AUTHORITY REQUIREMENTS AND SPECIFICATI
HE OWNER.	IGATIONS FILE ARED BT THE CONTRACTOR SHALL BE FORWARDED	11.	CONTRACTOR SHALL CONTINUOUSLY MAINTAIN ALL EXISTI
-		10	NECESSARY TO PREVENT SILT OR DEBRIS ACCUMULATION
TES		12.	DRAWINGS WILL BE SUBMITTED TO THE ENGINEER PRIOR 1

RIP EXISTING VEGETATION WITHIN THE PROJECT LIMITS AND AREAS TO RECEIVE FILL. HAUL OFF SITE BY CONTRACTOR. RIP EXISTING TOPSOIL 6" DEEP WITHIN THE PROJECT LIMITS AND AREAS TO RECEIVE FILL. STOCKPILE TOPSOIL FOR REUSE. CESS TOPSOIL MAY BE STOCKPILED ON SITE AT A LOCATION APPROVED BY THE OWNER'S REPRESENTATIVE. PLEASE NOTE OPSOIL DEPTHS MAY VARY ON-SITE.

COOF ROLL ALL FILL AREAS TO IDENTIFY SOFT OR DISTURBED AREAS IN THE SUBGRADE. ALL UNSUITABLE MATERIAL ENTIFIED SHALL BE REMOVED AND REPLACED WITH STRUCTURAL FILL AND RECOMPACTED TO 95% STANDARD PROCTOR ENSITY. PROOF ROLL WITH 25 TON MINIMUM GROSS VEHICLE WEIGHT.

MOVE AND RECOMPACT AREAS OF SUBGRADE WHICH ARE SOFT OR UNSTABLE TO MEET SPECIFIED LIMITS FOR DENSITY AND DISTURE CONTENT. PAVED AREAS TO BE COMPACTED TO 95%.

ARIFY AND RECOMPACT THE TOP 12 INCHES OF SUBGRADE IN ALL CUT AREAS AFTER ROUGH GRADING IS COMPLETED. MPACT THE ENTIRE PAVING SUBGRADE TO 95% STANDARD PROCTOR DRY DENSITY TO WITHIN 12 INCHES OF FINAL BGRADE. THE FINAL 12 INCHES OF FILL TO BE COMPACTED TO 95% STANDARD PROCTOR DRY DENSITY (ASTM D698).

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L DURING UNFAVORABLE WEATHER CONDITIONS AND DO NOT RESUME ND DENSITY OF IN-PLACE FILL MATERIAL ARE WITHIN SPECIFIED LIMITS. IPACTED TO 95% STANDARD PROCTOR DENSITY IN PAVED AREAS AND FILL MATERIAL SHALL BE FREE FROM ORGANIC MATTER, DEBRIS, AND D TO 90% OF MATERIALS MAXIMUM STANDARD PROCTOR DRY DENSITY L BE SOIL OR SOIL AND ROCK MIXTURE FREE FROM ORGANIC MATTER AIN NO ROCKS OR LUMPS OF 6 INCHES IN GREATEST DIMENSION AND E LARGER THAN 2-1/2 INCHES IN GREATEST DIMENSION. F APPROVED MATERIALS WHICH ARE FREE OF ORGANIC MATTER AND ALS TO ATTAIN REQUIRED COMPACTION DENSITY. PLACE FILL 2% TO +3% OF OPTIMUM MOISTURE CONTENT. FOR GRANULAR PTIMUM MOISTURE CONTENT. BSTATION EQUIPMENT AND DRAIN AWAY FROM STRUCTURES TO GULAR SURFACE CHANGES, AND AS FOLLOWS EAS AND SIDEWALKS: +/- 0.10 FEET	1	<b>SHAPACHLATTERATION</b> ARCHLITECTURE + ENGINEERING 4125 Westown Pkwy, Suite 100   West Des Moines, Iowa 50266 515.223.8104   www.shive-hattery.com Iowa   Illinois   Indiana   Nebraska   Wisconsin
NG AREAS AND SIDEWALKS: +/-0.15 FEET LAB +0.04 FEET TO -0.10 FEET NCHMARKS AND REFERENCE POINTS DURING CONSTRUCTION L STORM DRAINAGE STRUCTURES. AREAS OF SURFACE PONDING TIONAL EXPENSE TO THE OWNER. OR ALL CONCRETE SIDEWALKS AND ADA ACCESSIBLE ROUTES SHALL G AREAS SHALL NOT EXCEED 2% IN ANY DIRECTION. FACES AND ADJACENT CONCRETE SIDEWALKS FOR THE ACCESSIBLE /ERTICAL OR 1/2 INCH WHEN BEVELED. EQUIRE AN EXTERIOR LANDING THAT IS A MINIMUM OF FIVE (5) FEET IN TION. OR THE PROTECTION OF THE WORK AND FOR THE SAFETY OF ALL 0.S.H.A AND LOCAL REGULATIONS. SED OF LEGALLY OFFSITE. ALITY, UNSUITABLE SOIL REMOVAL AND ITS REPLACEMENT AND OTHER ITY OF THE OWNER. DITIONS. FOR ROUGH GRADING ELEVATIONS ALLOW FOR THE ADS, WALKS, DRIVE, ETC.) OR TOPSOIL AS INDICATED ON THE PLANS. ES THROUGH THE HIGH AND LOW POINTS INDICATED ON THE PLANS. ES THROUGH SLOPES BETWEEN NEW AND EXISTING GRADES AND AVOID IE PLAN SET. VALKS, ETC. SHALL MATCH EXISTING GRADES FLUSH. OR STORM, SANITARY, WATER AND OTHER UTILITY STRUCTURES SHALL DJECT LIMITS. IT THE END OF EACH WORKING DAY DURING CONSTRUCTION E WILL PRECLUDE THE CONTRACTOR FROM ANY POSSIBLE ABLE MATERIALS CREATED AS A RESULT. EDE THE SURFACE DRAINAGE SYSTEM. O TOP OF PAVEMENT OR TO TOP OF TOPSOIL, UNLESS OTHERWISE	2	CEDAR RIVER CROSSING & SUTLIFF BRIDGE - WEST AREA IMPROVEMENTS JOHNSON COUNTY CONSERVATION 5473 SUTLIFF ROAD NE, SOLON, IOWA 5233
REQUIRING FILL. THESE SOILS MAY NEED TO BE REMOVED AND REGATE). THE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER IRUCTION. CONSTRUCTION SHALL NOT PROCEED UNTIL UNSUITABLE SILIZED SUBGRADE MATERIALS TO THE SATISFACTION OF THE OWNER. AS SPECIFICATION SECTIONS. NG ALL EXISTING UTILITIES DAMAGED DURING CONSTRUCTION. IF ING THE PROJECT, THEY MUST BE REPAIRED BY A STATE CERTIFIED TIES PRIOR TO CONSTRUCTING PROPOSED WATER MAINS, SANITARY MEDIATELY BE BROUGHT TO THE ENGINEER'S ATTENTION. TO WITHIN 5 FEET OF BUILDING AND CAPPED FOR CONNECTION BY ICATED. COORDINATE ALL INVERT ELEVATIONS AND PIPING LOCATIONS . EXISTING UTILITY LOCATIONS, SIZES, CONDITIONS AND ELEVATIONS ENCING ANY UNDERGROUND CONSTRUCTION. CONTRACTOR SHALL DIES OR CONFLICTS PRIOR TO PROCEEDING WITH CONSTRUCTION.	3	PRELIMINARY - NOT FOR CONSTRUCTION
LE RIM ELEVATIONS REQUIRE BARREL SECTIONS TO BE REMOVED AND EVATION. ONLY 12 INCHES OF RISERS WILL BE ALLOWED. ALL MATCH PAVEMENT ELEVATIONS WITH ADDITIONAL ADJUSTMENTS AS ANS FOR LIGHTING AND ELECTRIC DESIGN. N. JCTURES OR PIPING SHALL BE IN ACCORDANCE WITH THE APPLICABLE TIONS. TING SEWER SYSTEMS DURING CONSTRUCTION OPERATIONS AS N. ET WITH WITNESS DIMENSIONS TO ALL CONNECTIONS. THESE TO FINAL ACCEPTANCE.	4	CIVIL GENERAL NOTES & LEGENDS     DRAWN:     MLH       APPROVED:     JMR       SSUED FOR:     BID       DATE:     11/19/2021       PROJECT NO: 4215460     FIELD BOOK:       CLIENT NO:

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		A	В		C D			E	
	TRENC	I, EXCAVATION AND BACKFILL NOTES		2	PLANS. MINIMUM CURING TIME FOR PAVING SHALL BE 7 DAYS. PAINT STRIPING PER LOCAL CODES WHERE SHOWN ON PLANS			LEGEND	
	1. 2.	TRENCH, EXCAVATION AND BACKFILL SHALL SHALL FOLLOW DIV THE CONTRACTOR SHALL MAKE PROVISIONS TO HANDLE WATER	VISION 3 SUDAS SPECIFICATION SECTIONS. R ENCOUNTERED DURING CONSTRUCTION. THE CONTRACTOR	2. 3.	PAVEMENT MARKINGS SHALL BE FAST DRY TRAFFIC LANE MARKING PAINT CONFORMING TO IOWA SPECIFICATION FOR HIGHWAY AND BRIDGE CONSTRUCTION, LATEST EDITION, SECTION 4183.03. IF	OOT STANDARD REQUIRED, REFLECTORIZED	PLAN MARK	SURVEY	
		SHALL OBTAIN APPROVAL FROM THE OWNER'S REPRESENTATIV	VE OF THE PROPOSED METHOD OF DEWATERING.		SPHERES FOR TRAFFIC PAINT SHALL MEET THE REQUIREMENTS OF IOWA DOT STANDARD SPECIFIC	CATION FOR HIGHWAY AND	BM	BENCH MARK	
	3. 4.	RCP STORM SEWER PIPE BEDDING SHALL BE SW-103	2, UNLESS NOTED OTHERWISE ON THE PLANS.	4.	PAINTING SHALL NOT BEGIN UNTIL PAVEMENT SURFACE HAS BEEN POWER BROOMED AND HAND S	WEPT AS NECESSARY TO	CP CP	CONTROL POINT	
	5.	SANITARY SERVICE PIPE BEDDING SHALL BE SW-103 CLASS F-3,	, UNLESS NOTED OTHERWISE ON THE PLANS.	-	REMOVE LOOSE MATERIALS AND DIRT; AND NOT BEFORE ADEQUATE CURING TIME HAS BEEN OBTA	INED ON THE PAVEMENT.		IRON ROD - FOUND	
	6.	WATER PIPE BEDDING SHALL BE PER SW-104 CLASS P-1, UNLEST LOCAL MUNICIPALITY.	S NOTED OTHERWISE ON THE PLANS OR DIRECTED BY THE	5.	APPLY PAINT AT MANUFACTURER'S RECOMMENDED RATES IN TWO SEPARATE COATS FOR ALL PAV STRIPES ARE 4 INCHES WIDE UNLESS OTHERWISE INDICATED. ADA SYMBOLS SHALL CONFORM TO	EMENT MARKINGS. ALL	0	IRON ROD - SET	
1					REGULATIONS.	-		SECTION CORNER FOUND	
	WATER	NOTES		PCC P	VEMENT NOTES				
	1.	ALL WATER MAIN CONSTRUCTION SHALL BE PERFORMED IN ACC	CORDANCE WITH THE NOTES IN THE PLANS AND THE				X	X CUT SET	
		STANDARDS, SPECIFICATIONS, CODES AND ORDINANCES OF TH MORE STRINGENT CODE SHALL TAKE PRECEDENCE.	HE LOCAL GOVERNING AUTHORITIES. IN CASE OF CONFLICT, THE	1.	CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS WITH 6-1/2 F ENTERTAINMENT AND LIMESTONE AGGREGATE 1-1/2 INCH MAXIMUM SIZE. PROVIDE CONTROL JOIN	'ERCENT± 1/2% AIR TS 14 FEET O/C MAXIMUM (7		RIGHT OF WAY MARKER	
	2.	WATER PIPE AND STRUCTURES SHALL BE FURNISHED AND INST	TALLED IN ACCORDANCE WITH SUDAS DIVISION 5.		INCH PAVEMENT) OR 12 FEET O/C MAXIMUM (6 INCH PAVEMENT) UNLESS NOTED OTHERWISE. INST	ALL TYPE "K" OR TYPE "L"	•		
	3.	ALL WATER VALVES EXTENDING THROUGH PAVEMENT SHALL BE SUDAS SPECIFICATION SECTION 5020.	E INSTALLED WITH SLIDE TYPE VALVE BOXES AND SHALL MEET		JOINTS AT 14 FEET O/C MAXIMUM (7 INCH PAVEMENT) OR 12 FEET O/C MAXIMUM (6 INCH PAVEMENT OTHERWISE. MATERIALS AND CONSTRUCTION FOR PORTLAND CEMENT CONCRETE PAVEMENTS SI	) UNLESS NOTED IALL MEET THE		STATION MARKER	
	4.	ALL PROPOSED WATER SHALL FOLLOW PROPOSED GRADES WIT	ITH 5 FEET OF COVER, TYP. UNLESS OTHERWISE SPECIFIED ON		REQUIREMENT OF IOWA DOT STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCT	ION, LATEST REVISION,	•	SOIL BORING	
	5.	WATER MAIN SHALL BE POLYVINYL CHLORIDE (PVC) PIPE IN ACC	CORDANCE WITH AMERICAN WATER WORKS ASSOCIATION	2.	CURBS SHALL BE CAST INTEGRAL WITH CONCRETE PAVEMENT UNLESS NOTED OTHERWISE. EDGE	S SHALL BE ROUNDED BUT	(00)	RECORD BEARING/DISTANCE	
	6	(AWWA) STANDARD C900 DR18 WITH PUSH-ON JOINTS CONFORM	MING TO ASTM C900, UNLESS OTHERWISE NOTED.	2	NOT ROLLED.		POB	MEASURED BEARING/DISTANCE	
	0.	THE PROPOSED FINISH GRADE INDICATED ON THE PLANS OR TO	O THE SPECIFIC TOP OF PIPE ELEVATION INDICATED ON THE	З.	APPROVAL PRIOR TO PAVEMENT OPERATIONS. DESIGN FILE AND ADDITIONAL PAVEMENT ELEVATION	ONS AT JOINTS CAN BE	POR	POINT OF REFERENCE	
		PLANS FOR THE WATER MAIN. NO BERMS ARE ALLOWED OVER W	WATER MAINS EXCLUSIVELY FOR THE PURPOSE OF OBTAINING	Δ	COORDINATED WITH ENGINEER TO FACILITATE STAKING, LAYOUT, AND DESIGNED DRAINAGE PATT	ERNS UPON REQUEST.			
	7.	CONTRACTOR SHALL INSTALL TRACER WIRE AND TRACER WIRE	E STATION ON ALL PROPOSED WATER LINES AS DICTATED IN	ч.	STANDARD DETAIL 7010.101.				
	8	SUDAS DIVISION 5 SPECIFICATIONS.	ATER MAIN PIPE AT THE END OF EACH CONSTRUCTION DAY	5.	WHERE ACCESS DRIVES INTERSECT EACH OTHER OR WHERE ACCESS DRIVES INTERSECT PARKIN	G AREAS, THE JOINTING PLAN		LEGEND	
	9.	UPON COMPLETION OF THE WATERMAIN CONSTRUCTION, ALL W	VATER MAIN SHALL BE TESTED IN ACCORDANCE WITH THE	6.	PAVEMENT LONGITUDINAL JOINTS SHALL BE TYPE "KT-1" OR "L-1", TYP.			GENERAL SITE	
	9.1.	FOLLOWING MINIMUM STANDARDS: HYDROSTATIC PRESSURE AND LEAKAGE TESTS IN ACC	CORDANCE WITH LOCAL REQUIREMENTS AND SPECIFICATIONS	7. 8.	PAVEMENT TRANSVERSE JOINTS SHALL BE TYPE "C", TYP. ALL JOINTS, INCLUDING "KT" OR "L" TYPE JOINTS, SHALL BE SEALED PER IOWA SUDAS STANDARD D	ETAIL 7010.101 DETAIL "A"		DESCRIPTION	
	0.0	AND SHALL BE WITNESSED BY THE LOCAL GOVERNING		0	AND IOWA SUDAS STANDARD SPECIFICATION SECTION 3.02 K.			EXISTING STRUCTURE	
2	9.2.	AND WITNESSED BY THE LOCAL GOVERNING AUTHORIT	TY.	9.	INSTALL 1 INCH EXPANSION JOINT AT ALL LOCATIONS WHERE PAVEMENT ABUTS A BUILDING, STOO	P, OR BACK-OF-CURB.	MB	MAILBOX	
	10.	WATER SERVICE PIPING AND STRUCTURES SHALL BE FURNISHE	ED AND INSTALLED IN ACCORDANCE WITH SUDAS DIVISION 5.	SURF/	CE RESTORATION		O PM	PARKING METER	
	11.	ACCORDANCE WITH AWWA C901. PROVIDE SOLVER WELD JOINT	TS FOR ALL PIPES. NO COUPLINGS SHALL BE PERMITTED	1.	ALL DISTURBED AREAS NOT PAVED OR HARD SURFACE ON THE SITE SHALL RECEIVE A MINIMUM O	6 INCHES OF TOPSOIL.	× *	FLAGPOLE	
	12	BETWEEN THE CORPORATION AND CURB STOPS OR BETWEEN T	THE CURB STOP AND THE BUILDING.		SCARIFY AREAS TO RECEIVE TOPSOIL TO A DEPTH OF 3 INCHES. REMOVE ALL STONES, WOOD, AND THAN 2 INCHES FROM AREAS TO RECEIVE TOPSOIL DO NOT COMPACT TOPSOIL	OTHER DEBRIS LARGER		HANDICAPPED PARKING SHRUB	
	12.	ACCORDANCE WITH SUDAS DIVISION 5.		2.	CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY TEMPORARY SEEDING PER SUDAS SPECIFICA	TIONS. OWNER IS		DECIDUOUS TREE	
	13.	SERVICE BOXES SHALL BE OF SUFFICIENT LENGTH TO PERMIT T EACH SERVICE BOX SHALL BE PROVIDED WITH A CAP WITH THE	THE TOP TO BE INSTALLED FLUSH WITH THE FINISHED GRADE.		RESPONSIBLE FOR PERMANENT SEEDING AND LANDSCAPING.		30000000000000000000000000000000000000	CONIFEROUS TREE	
	14.	VALVES, VALVE BOXES, OR VAULTS SHALL BE FURNISHED AND I	INSTALLED IN ACCORDANCE WITH SUDAS DIVISION 5.					SINGLE POLE SIGN	
	15.	SPECIFICATIONS AND SHALL INCLUDE THE INSTALLATION OF A F	FULL STAINLESS STEEL TAPPING SADDLE.					TRAFFIC SIGNAL WITH ARM	
	16.	TEMPORARY CONNECTIONS FOR CONSTRUCTION PURPOSES TO	O NEWLY INSTALLED OR EXISTING WATER MAINS SHALL BE				ð	TRAFFIC SIGNAL	
	17.	REQUIRED RIM ADJUSTMENTS SHALL BE MADE WITH PRECAST (	CONCRETE ADJUSTING RINGS NOT TO EXCEED A MAXIMUM OF				↓ X	UTILITY MARKER	
		EIGHT (8) INCHES IN OVERALL HEIGHT. A MAXIMUM OF TWO (2) A SHALL BE USED ON ALL JOINTS BETWEEN THE PRECAST ELEME	ADJUSTING RINGS ARE ALLOWED. BUTYLROPE JOINT SEALANT					TRAFFIC MANHOLE	
	18.	BENDS, TEES, AND CROSSES ON 4 INCH AND GREATER WATER L	LINES SHALL BE PROVIDED WITH THRUST BLOCKING OR				x	WIRE FENCE	
		RESTRAINED JOINTS PER SUDAS DIVISION 5 AND SUDAS CHAPTI	ER 4.						
	STORM	SEWER NOTES						RAILROAD	
	1.	STORM SEWER PIPE AND STRUCTURES SHALL BE FURNISHED A	AND INSTALLED IN ACCORDANCE WITH SUDAS DIVISIONS 4 AND 6.				· <del>· · · · · · · · ·</del> ·	GUARD RAIL	
	2.	ALL STORM SEWER CONSTRUCTION SHALL BE PERFORMED IN A STANDARDS, SPECIFICATIONS, CODES, AND ORDINANCES OF TH	ACCORDANCE WITH THE NOTES IN THE PLANS AND THE HE LOCAL GOVERNING AUTHORITIES. IN CASE OF CONFLICT. THE				621		
3		MORE STRINGENT CODE SHALL TAKE PRECEDENCE.					620	MAJOR CONTOUR	
	3.	ENGINEERING FABRIC. WHERE CROSSING WATER LINES, A RUB	BER O-RING OR PROFILE GASKET COMPLYING WITH ASTM C443			г			
		IS REQUIRED. STORM SEWER SHALL BE MARKED WITH THE DATI	E OF MANUFACTURE AND ASTM CLASS, AND SHALL BE					LEGEND	
		STORM SEWER SHALL BE B-WALL (AS DEFINED IN ASTM C76 AND	D ASTM C655).			F			DDODOC
	4.	HDPE STORM SEWER PIPE SHALL BE TYPE S CORRUGATED EXT PIPE PER AASHTO M294 WITH WATERTIGHT JOINTS CONFORMIN	ERIOR AND SMOOTH INTERIOR HIGH DENSITY POLYETHYLENE			-			
	5.	PVC STORM SEWER PIPE SHALL BE POLYVINYL CHLORIDE SDR 3 CONFORMING TO ASTM D3212 LINE ESS OTHERWISE NOTED	35 PIPE PER ASTM D3034 WITH WATERTIGHT JOINTS			-		ELECTRIC - UVERHEAD	
	6.	REQUIRED STORM STRUCTURE RIM ADJUSTMENTS SHALL BE M	ADE WITH ADJUSTING RINGS NOT TO EXCEED A MAXIMUM OF			-	——————————————————————————————————————	ELECTRIC - UNDERGROUND	
		I WELVE (12) INCHES IN OVERALL HEIGHT. JOINTING MATERIAL SUDAS DIVISION 6.	SHALL BE USED ON ALL JOINTS BETWEEN THE ELEMENTS PER			-		GAS MAIN	
	7.	CONTRACTOR SHALL CONNECT ALL DRAINS INTO STORM INTAK	ES. SUBDRAINS SHALL BE CAPPED INSIDE INTAKE WHERE			-			
						-		WATER MAIN	
	PAVEM	ENT GENERAL NOTES				-		SANITARY SEWER	<b></b> ,
	1.	SEE STRUCTURAL PLANS FOR ANY SPECIAL EXCAVATION AND F	FILL REQUIREMENTS.					SANITARY FORCE MAIN	
	Ζ.	SHALL NOT UTILIZE PRIVATE PROPERTY UNLESS THEY HAVE SU	JBMITTED A COPY OF THE PROPERTY OWNER'S WRITTEN			-			
	3.	PERMISSION TO THE OWNER'S REPRESENTATIVE. ALL SLOPES IN PAVEMENT SHALL BE UNIFORM TO AVOID PONDI	ING.			-	>	STORM SEWER	>
	4.	REMOVE AND REPLACE OR RESTORE ALL STREET SIGNS, PAVEN	MENT MARKINGS, SIDEWALK LAMPS, SIDEWALKS, STEPS,			-	OT	TELEPHONE - OVERHEAD	
4		OTHERWISE DAMAGED DURING THE COURSE OF THE WORK. SI	ES, AND ALL OTHER SURFACE STRUCTURES REMOVED OR IDEWALKS SHALL BE REMOVED AND REPLACED TO NEAREST				TT		
	5	JOINT BEYOND CONSTRUCTION AREA.	WITH GRADING NOTES			-		I ELEPHONE - UNDERGROUND	
	6.	MODIFIED SUBBASE FOR PAVEMENTS SHALL MEET THE LIMITS C	OF GRADUATION NO.14 IOWA DOT STANDARD SPECIFICATION			-	OC	CABLE LINE - OVERHEAD	
	7.	FOR HIGHWAY AND BRIDGE CONSTRUCTION SECTION 4123. ALL SIDEWALKS SHALL BE CONSTRUCTED PER SUDAS SECTION	<b>1</b> 7030.			ļ	C	CABLE LINE - UNDERGROUND	
	8.	ALL PCC PAVEMENT SHALL BE PROTECTED ACCORDING TO SUD	DAS SECTION 7010-3.04		UTILITY NOTE	ŀ	-		
	PAVEM	NT MARKING NOTES			THE LOCATIONS OF UTILITY MAINS, STRUCTURES, AND SERVICE CONNECTIONS PLOTTED ON THIS DRAWING ARE APPROXIMATE ONLY AND	-	— — — FO— — —	FIBER OPTICS	
	1.	PAINT PARKING STRIPING AND SIDEWALK CURBS TRAFFIC PER (	OWNER DIRECTION AND LOCAL CODES WHERE SHOWN ON		WERE OBTAINED FROM RECORDS MADE AVAILABLE TO SHIVE-HATTERY, INC. THERE MAY BE OTHER EXISTING UTILITY MAINS, STRUCTURES, AND SERVICE CONNECTIONS NOT AND AND ADD AND NOT	-		PROCESS/HEATING STEAM	
					SERVICE CONNECTIONS NOT KNOWN TO SHIVE-HATTERY, INC., AND NOT SHOWN ON THIS DRAWING.	L		I	<b>I</b>
		٨	R					<b>C</b>	

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	UTILITY END CAP		25 W 8.223 Ma
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	© CABLE IV PEDESTAL		μZ
	JUNCTION BOX		ЦЩ
	F FIBER OPTIC BOX		
	Omega     MANHOLE       D     DRAINAGE MANHOLE		
	ELECTRICAL MANHOLE		
	S SANITARY MANHOLE		$\infty$ (r)
	Image: U     Image: Telephone manhole       Image: Telephone pedestal		
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			A			В	
			MATE	ERIAL LIST			
		THE SYMBOLS AND THE MAT VERIFICATION OF QUANTITIE WORKING SYSTEM.	ERIAL LIST ARE FOR THE CONVENI	ENCE OF THE CONTRACTOR. EACH C	ONTRACTOR SHALL B OR NOT, TO PRODUC	E RESPONSIBLE FOR E A SATISFACTORY	
		CATALOG NUMBERS SHALL N NO MATERIAL SHALL BE ORD DESCRIPTION OF THE MATER "STANDARD COLOR" INDICAT	NOT BE CONSIDERED COMLETE BU DERED BY MANUFACTURER AND CA RIAL ON THESE DRAWINGS AND SPI FED FACTORY FINISH AVAILABLE AT	T ARE GIVEN ONLY TO AID THE CONT TALOG NUMBER ONLY. EACH CONTR ECIFICATIONS. THE FIRST MANUFACT I NO ADDITIONAL CHARGE.	RACTOR IN THE SEAR ACTOR SHALL FIRST F URER LISTED IS THE F	CH FOR MATERIAL. READ THE COMPLETE BASIS OF DESIGN.	
	1	SYMBOL	DES	SCRIPTION			
					BY OWNER	R	
			LOAD CENTER, 20" WIDE SURFACE CIRCUIT BREAKER, COPPER BUS, G 3R, LOCKABLE, UL LISTED. SERVICE FURNISH WITH (1) 30A, 2P BREAKEF	MOUNTED, 120/240V, 1 PHASE, 3 WIRE, GROUND BUS, FULLY RATED BREAKERS E ENTRANCE RATED. R; (3) 20A, 1P BREAKERS.	60A MAIN S, NEMA EATON	)	
		WP/GFI RECEPTACLE WP,GFI $\bigoplus$	DUPLEX RECEPTACLE, GROUND FA STYLE, 20 AMP, 125 VOLT, 3-WIRE O GRADE, STRAIGHT BLADE, NEMA 5- AND RESET BUTTONS IN FACE, LOO IS NOT FUNCTIONING, UL LISTED. PROVIDE WITH CAST ALUMINUM W BUBBLE COVER, LOCKABLE.	AULT CIRCUIT INTERRUPTING (GFCI), D GROUNDING TYPE, INDUSTRIAL SPECIF -20R, NYLON FACE, SIDE AND BACK WI CKOUT ACTION TO PREVENT USE IF GF ET LOCATION WHILE-IN-USE	ECORA LEVITON 7 ICATION HUBBELL RED, TEST PASS & SE CI CIRCUIT COOPER	7899-G EYMOUR	
		LIGHT FIXTURE	LED EXTERIOR WALL PACK, 4000K BLACK, ZERO UPLIGHT.	, TYPE IV, 980 LUMENS, INTEGRAL PHC	TOCELL, HUBBELL LNC-5LU EQUAL	J-4K-4-2-PC(1)	
		<b>GENE</b> 1. "TX/1" INDIC	RAL ELECTRIC	CAL NOTES:	LIST		
	2	2. ALL ELECTI 3. ABBREVIAT AFF ABC C. CON EC ELEC GC GEN MC MCC	RICAL CONDUCTORS SHALL BE COF TON KEY: DVE FINISH FLOOR DUIT CTRICAL CONTRACTOR IERAL CONTRACTOR CHANICAL CONTRACTOR	PPER.			
		NIC NOT NL NIGH TYP TYP UG UND +#' MOU	IN CONTRACT IT LIGHT VICAL DERGROUND INTING HEIGHT FROM FINISHED FLC	DOR TO CENTERLINE			
		4. LINE TYPE 	KEY: 	CONTRACTOR (DARK SOLD LINE) R UNDERGROUND BY THIS CONTRACT	OR (DARK LONG		
			DASHED LINE) NEW WORK BY OTHERS AND/	OR EXISTING TO REMAIN (LIGHT SOLI		E	
		6. ELECTRICA ELECTRICA SUPPLIED E	L EQUIPMENT SHALL BE MOUNTED L AND MECHANICAL EQUIPMENT. A BY ANOTHER CONTRACTOR SHALL I	TO AVOID IMPEDANCE OF OPERATION ALL MOUNTING OF ELECTRICAL GEAR BE APPROVED IN ADVANCE BY THE O	I AND/OR ACCESS TO ON EQUIPMENT THER CONTRACTOR.	-	
		7. CONTRACT REPAIRED ALL CONDU PENETRATE INTUMESCE MATERIALS AS A SYSTE MANUFACT	OR SHALL BE RESPONSIBLE FOR AI TO MATCH EXISTING BY A QUALIFIE JITS THROUGH WALLS SHALL BE GR ES WALLS AND FLOORS, SEAL WITH ENT CAULK, PUTTY, OR SHEET INST & USED TO SEAL PENETRATIONS OF EM PER ASTM E814 STANDARDS FOI URED BY 3M OR APPROVED EQUAL	LL OPENINGS REQUIRED IN WALLS. A D CONTRACTOR AT THE EXPENSE OF COUTED OR SEALED INTO OPENINGS. I A U.L. LISTED SEALANT. SEAL PENE <sup>-</sup> ALLED PER MANUFACTURER'S RECOM FIRE WALLS AND FLOORS SHALL BE R FIRE TESTS OR THROUGH-PENETR/	LL OPENINGS SHALL B THIS CONTRACTOR. WHERE CONDUIT RATIONS WITH IMENDATION. ALL IESTED AND CERTIFIE ITION FIRESTOPS AS	E	
	3	8. ALL PANEL SERVED AN	BOARDS SHALL BE COMPLETE WITH ND ASSOCIATED AREA OR ROOM LC	H TYPED CIRCUIT DIRECTORY CARD II DCATED.	DENTIFYING LOAD		
				CTION NOTES:	_		
		2. CONDUIT SI	HALL BE 1" MINIMUM UNLESS NOTE	D OTHERWISE.			
		3. ALL WORK S CODE (NEC)	NHALL CONFORM TO OR EXCEED TH 1, 2014 EDITION. OR SHALL PROVIDE ALL LABOR MAD			-	
		4. CONTRACTO ALL ELECTR 5. NO ENERGIZ	RICAL WORK. ZED CONDUCTORS SHALL BF FXPO	SED AT ANYTIME EXCEPT WHEN THE	MMEDIATE AREA IS		3-#2AWG, 1-1/4"C
		6. ALL MATERI GUARANTEE	SUPERVISION OF A QUALIFIED ELE ALS FURNISHED BY THE CONTRACT E OR WARRANTY AND SHALL BE LIS	CTRICIAN. TOR SHALL BE NEW, COMPLETE WITH TED BY UNDERWRITERS LABORATOR	MANUFACTURER'S IES (UL) INC.		
		<ol> <li>ALL WORK S</li> <li>THIS CONTR INSTALL HIS PATCHING F</li> </ol>	SHALL PRESENT A NEAT MECHANIC/ RACTOR SHALL BE RESPONSIBLE FO WORK. HE SHALL COORDINATE WI REQUIRED. ALL LINDLE OR LINTIME	AL APPEARANCE WHEN COMPLETED. DR ALL CUTTING AND FITTING NECES: ITH OTHER TRADES TO MINIMIZE THE Y MUTILATION MARRING OR SOULING	SARY TO PROPERLY DAMAGE AND AMOUN	T OF TO ES	UTILITY
		9. SHALL BE RI 10. CONTRACTO	EPAIRED BY THE PROPER TRADES	EAN OF ALL DEBRIS AND SHALL KEEF	MATERIALS IN AREAS		
		DESIGNATE	D BY THE OWNER. CIRCUIT NUMBER SHALL BE MARKE	D ON THE BACKBOX OF ALL RECEPT	CLES AND LIGHT		COURDINATE PRIMARY AND     SECONDARY SIDE CONDUITS     AND CONDUCTOR     BEOLIDE MENTO MUTULE
,	4	SWITCHES E 12. CONDUCTO VOLT INSUL #8 OR LARG	3Y INDELIBLE PEN. RS USED THROUGHOUT THIS PROJI ATION (THW, THHN, THWN OR XHHV IER SHALL BE STRANDED. ALL WIRIN	ECT SHALL BE COPPER. ALL CONDUC W), SUITABLE FOR THE LOCATION PER NG SHALL BE IN APPROVED RACEWAY	TORS SHALL HAVE 600 NEC. ALL CONDUCTO S.	) RS	REQUIREMENTS WITH UTILITY PRIOR TO INSTALLATION. REFER TO SITE PLAN C301 FOR MORE DETAILS.
		13. SPLICES AN ALL CONDU	ID CONNECTIONS TO CONDUCTORS CTORS #8 AND SMALLER THAT ARE	S LARGER THAN #8 SHALL BE BY MEAN TO BE PIGTAIL SPLICED SHALL BE JC	IS OF COMPRESSION T INED WITH WIRE NUTS	TYPE.	
		14. PROVIDE PL GALVANIZEI GROUNDING	JLL, JUNCTION AND OUTLET BOXES D SHEET STEEL. FASTEN BOXES RIG G CONNECTIONS FOR INSTALLED BO	IN ACCORDANCE WITH THE NEC. ALL GIDLY TO STRUCTURAL SURFACES. P OXES.	BOXES SHALL BE ROVIDE ELECTRICAL		NOT TO SCALE
		15. THE ELECT REQUIREME GROUND SH GROUNDING CARRYING (	RICAL SYSTEM GROUND SHALL BE F ENTS OF THE NEC. THE ELECTRICA HALL BE MADE TO ALL METAL, NON- G CONDUCTORS, GREEN INSULATIO CONDUCTORS WITHOUT EXCEPTION	PROVIDED AND IN NO CASE SHALL IT L GROUND SHALL CONSIST OF THE E CURRENT CARRYING PARTS OF THE I DN, SHALL BE RUN IN THE SAME COND N PER NEC 250.	BE LESS THAN THE QUIPMENT GROUND. ELECTRICAL EQUIPMEI UIT AS THE CURRENT	NT.	
			Α			B	

![](_page_14_Figure_3.jpeg)

![](_page_14_Figure_5.jpeg)

- 3-#2AWG, 1#8GND, 1-1/4"C

PANEL WEATHERPROOF LOAD CENTER IF 60A MCB MOUNTED ON BUILDING EXTERIOR WITH LOCKABLE COVER. 120/240V

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![](_page_14_Figure_8.jpeg)

## **GROUNDING SYSTEM DETAIL** NOT TO SCALE

![](_page_14_Picture_20.jpeg)

D

![](_page_15_Figure_0.jpeg)

		A B	
S	TRUC	TURAL GENERAL NOTES	
1	. ELEV RESP BOT	ATIONS GIVEN ON THE PLANS ARE TO TOP (UNLESS NOTED OTHERWISE) OF BEAMS, WALLS, ETC. WITH PECT TO THE REFERENCE ELEVATION OF THE FINISHED FLOOR. ELEVATIONS FOR LINTELS ARE TO THE FOM OF LINTELS.	
2	. GOV	ERNING BUILDING CODE: 2018 INTERNATIONAL BUILDING CODE (IBC).	
3	. CON	TRACTOR TO VERIFY ALL FIELD CONDITIONS AND DIMENSIONS PRIOR TO FABRICATION OR INSTALLATION OF S	
4	. STRI	JCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, SHOP	
_	DRA	WINGS, AND SPECIFICATIONS.	
5	. THE LATE SHAI STRI AND	COMPLETED LATERAL-FORCE RESISTING SYSTEMS AND DIAPHRAGMS ARE REQUIRED FOR THE STRUCTURE TO RESIST RAL LOADS AND PROVIDE STABILITY UNDER GRAVITY LOADS. DURING THE CONSTRUCTION PROCESS, THE CONTRACTOR L PROVIDE ALL REQUIRED BRACING DURING CONSTRUCTION TO MAINTAIN THE STABILITY AND SAFETY OF ALL JCTURAL ELEMENTS UNTIL THE LATERAL-LOAD RESISTING OR STABILITY-PROVIDING SYSTEM IS COMPLETELY INSTALLED THE STRUCTURE IS COMPLETELY TIED TOGETHER.	
6	. UNLE	ESS OTHERWISE NOTED, DETAILS SHOWN ON ANY DRAWING ARE TO BE CONSIDERED TYPICAL FOR ALL SIMILAR CONDITIONS.	
7.	. GOV	ERNING DESIGN CODE IS THE INTERNATIONAL BUILDING CODE 2018 EDITION.	
	7.1.	RISK CATEGORY: II	
	7.2.	LIVE LOADS	
		7.2.1. FLOOR LIVE LOAD: 100 PSF	
	7.0	7.2.2. ROOF LIVE LOAD: 20 PSF	
	7.3.		
	74	SEISMIC LOAD	
	7.4.	7.4.1 RISK CATEGORY: II	
		7.4.2. IMPORTANCE FACTOR: 1.00 7.4.3. SITE CLASS: "D"	
		<ul> <li>7.4.4. MAPPED SPECTRAL RESPONSE COEFFICIENTS: Ss=0.083 S1=0.053</li> <li>7.4.5. SEISMIC DESIGN CATEGORY: "B"</li> </ul>	
		<ul><li>7.4.6. SPECTRAL RESPONSE COEFFICIENTS: Sds = 0.089 Sd1 = 0.085</li><li>7.4.7. ANALYSIS PROCEDURE USED: EQUIVALENT LATERAL FORCE PROCEDURE</li></ul>	
		7.4.10. SEISMIC RESPONSE COEFFICIENT: Cs = 0.030 7.4.11. RESPONSE MODIFICATION FACTOR: R = 3.0	
	7.5.	WIND PRESSURE ON BUILDING	
		7.5.1. BASIC WIND SPEED (3-SECOND GUST): 115 MPH	
		<ul> <li>7.5.2. RISK CATEGORY: II</li> <li>7.5.3. EXPOSURE CATEGORY: C</li> <li>7.5.4. INTERNAL PRESSURE COEFFICIENT: ± 0.18</li> <li>7.5.5. COMPONENTS AND CLADDING: ZONE 4 = 24 PSF ZONE 5 = 32.5 PSF</li> </ul>	
	7.6.	SOIL NET ALLOWABLE BEARING CAPACITY: 1500 PSF	
	7.7.	ROOF SNOW LOADS	
		<ul> <li>7.7.1. GROUND SNOW LOAD: 25 PSF</li> <li>7.7.2. FLAT-ROOF SNOW LOAD: Pf = 21 PSF</li> <li>7.7.3. SLOPED-ROOF SNOW LOAD: Ps = 21 PSF</li> <li>7.7.4. MINIMUM LOW-SLOPE SNOW LOAD: Pm = 20 PSF</li> <li>7.7.5. SNOW EXPOSURE FACTOR: Ce = 1.0</li> <li>7.7.6. SNOW LOAD IMPORTANCE FACTOR: I = 1.0</li> <li>7.7.7. THERMAL FACTOR: Ct = 1.2</li> </ul>	
8		CONCRETE	
	8.1.	CONCRETE SHALL BE 5,000 PSI, STRENGTH ATTAINABLE AFTER 28 DAYS (ASTM C39). SLAB-ON-GRADE CONCRETE SHALL BE 4,000 PSI AT 28 DAYS. SLUMP OF CONCRETE SHALL BE TESTED ON SITE AT TIME OF DELIVERY AND SHALL NOT EXCEED 4". ALL FORMED SURFACES SHALL BE DAMPENED; PLACE CONCRETE IN SUCCESSIVE LIFTS NOT TO EXCEED 48" IN HEIGHT IN WALLS. WHILE PLACING, VIBRATE MIXTURE AND TAMP FORMS TO ENSURE CONSOLIDATION OF MATERIAL IN FORMWORK. SEE SPECIFICATIONS FOR ADDITIONAL MATERIAL AND CURE REQUIREMENTS.	
	8.2.	CONCRETE FINISHES	
		<ul> <li>8.2.1. VAULT SURFACES TO RECEIVE XYPEX COATING: PREPARE CONCRETE SURFACE AND APPLY AND CURE XYPEX PRODUCT TO SURFACE OF CONCRETE PER PRODUCT MANUFACTURER RECOMMENDATIONS.</li> <li>8.2.2. SLAB-ON-GRADE: BROOM FINISH. APPLY CONCRETE DENSIFIER/HARDENER TO SURFACE OF FRESH CONCRETE PER MANUFACTURER REQUIREMENTS. DO NOT OVER APPLY PRODUCT. DO NOT ALLOW MATERIAL TO PUDDLE ON THE SURFACE. APPROVED PRODUCT: LIQUI-HARD ULTRA BY W.R. MEADOWS.</li> <li>8.2.3. FOR REMAINING SURFACES, REFER TO SPECIFICATIONS.</li> </ul>	
	8.3.	REINFORCING: MILD STEEL REINFORCING MINIMUM YIELD STRENGTH 60 KSI, EPOXY COATED WHERE INDICATED.	
	8.4.	REINFORCEMENT PROTECTION:	
		8.4.1. CONCRETE PLACED AGAINST EARTH: 3" 8.4.2. CONCRETE PLACED IN FORMS BUT EXPOSED TO WEATHER OR EARTH	
		8.4.2.1. BARS #5 AND SMALLER: 2" 8.4.2.2. BARS LARGER THAN #5: 2" 8.4.2.3. STRUCTURAL SLABS (TOP AND BOTTOM): 2"	
	8.5.	NO SPLICES OF REINFORCEMENT PERMITTED EXCEPT AS DETAILED OR AUTHORIZED BY ENGINEER. MAKE BARS CONTINUOUS AROUND CORNERS. WHERE PERMITTED PROVIDE SPLICES BY CONTACT LAP. WHERE CLASSES ARE NOT CALLED OUT ON DRAWINGS USE CLASS "B" TENSION SPLICE.	
	8.6.	DETAIL BARS IN ACCORDANCE WITH "ACI DETAILING MANUAL", PUBLICATION SP-66, AND "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE", ACI 318.	
	8.7.	ROUGHEN ALL CONSTRUCTION JOINTS TO AN AMPLITUDE OF AT LEAST 1/4".	
	8.8.	EPOXY FOR EPOXY DOWELS SHALL BE HILTI HIT-HY 200, OR APPROVED EQUAL	
			_
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### METALS

- 9.1. STRUCTURAL STEEL: MINIMUM YIELD STRENGTH 50 KSI FOR WIDE FLANGES, 35 KSI FOR PIPE, 46 KSI FOR TUBES, AND 36 KSI ALL ELSE UNLESS NOTED OTHERWISE.
- 9.2. USE STANDARD FRAMED BEAM CONNECTIONS FOR WIDE FLANGE AND CHANNEL CONNECTIONS AND SINGLE PLATE SHEAR CONNECTIONS FOR PIPE AND HSS CONNECTIONS MEETING REQUIREMENTS OF "MANUAL OF STEEL CONSTRUCTION", 14TH EDITION, WITH 3/4" MINIMUM DIAMETER A325 BOLTS (OR WELDED EQUIVALENT) UNLESS OTHERWISE NOTED. MINIMUM OF TWO (2) ROWS OF BOLTS PER CONNECTION. SIZE CONNECTION FOR 3/4 OF TOTAL UNIFORM LOAD CAPACITY OF THE BEAMS.
- 9.3. USE E70XX ELECTRODES FOR ALL SHOP AND FIELD WELDS. PROVIDE WELD SIZE IN ACCORDANCE WITH THE AISC SPECIFICATIONS, BUT NOT LESS THAN 3/16" FILLET, CONTINUOUS UNLESS OTHERWISE NOTED. GRIND SMOOTH ALL WELDS. GRIND AND CLEAN UP WELD SPLATTER.
- 9.4. WELDERS: SHOW CURRENT EVIDENCE OF PASSING THE APPROPRIATE A.W.S. CERTIFICATION TESTS.
- 9.5. THERE SHALL BE NO FIELD CUTTING OF STRUCTURAL STEEL MEMBERS FOR THE WORK OF OTHER TRADES WITHOUT PRIOR APPROVAL OF THE ENGINEER.
- 9.6. ANCHOR BOLTS SHALL BE STAINLESS STEEL, ASTM F593, ALLOY 304, CONDITION CW, WITH STAINLESS STEEL HEAVY HEX NUTS, ASTM F594, ALLOY 304, CONDITION CW, AND STAINLESS STEEL WASHERS, ASTM A240, ALLOY 304.
- 9.7. ALL STEEL COLUMNS SHALL HAVE A 1/4" CAP PLATE WELDED TO TOP WHERE TOP IS EXPOSED.
- 9.8. ALL BASE PLATES ARE 10"x10"x1/2" WITH (4) 3/4" DIAMETER ANCHOR BOLTS AND 1 1/2" NON-SHRINK GROUT FOR LEVELING.
- 9.9. AFTER FABRICATION, ALL STEEL SHALL BE CLEANED OF ALL RUST, LOOSE MILL SCALE, AND OTHER FOREIGN MATERIALS. STEEL SHALL BE CLEANED IN ACCORDANCE WITH THE SPECIFICATIONS. PREP AND APPLY COATINGS TO STEEL PER MANUFACTURER'S RECOMMENDATIONS. ALL AREAS OF STRUCTURAL STEEL MEMBERS IN WHICH THE PAINTED SURFACE IS DAMAGED DURING CONSTRUCTION SHALL BE PREPARED AND PAINTED ACCORDING TO COATING MANUFACTURER'S RECOMMENDATIONS. ALL EXTERIOR EXPOSED STRUCTURAL STEEL SHALL RECEIVE THE FOLLOWING COATING SYSTEM:
  - TNEMEC SERIES N69 H.B. EPOXOLINE II (TWO COATS AT 3 MILS.)
     TNEMEC SERIES 1075U ENDURA-SHIELD II (ONE COAT AT 3 MILS.)

SEALANTS

10.1. FLOOR SEALANTS AND CONSTRUCTION JOINT SEALANTS: REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.

PRECAST CONCRETE

- 11.1. PRECAST MANUFACTURER SHALL VERIFY WEIGHT OF PRECAST WITH ENGINEER PRIOR TO CONSTRUCTION.
- 11.2. PRECAST ELEMENTS SHALL BE DESIGNED BY THE PRECAST MANUFACTURER ACCORDING TO THE APPLICABLE BUILDING CODE FOR GRAVITY AND LATERAL LOADS, INCLUDING BUILDING LOADS LISTED IN THESE NOTES AS WELL AS ANY OTHER ADDITIONAL LOADS INDICATED ON THE PLANS. SEE SPECIFICATIONS FOR DESIGN REQUIREMENTS.
- 11.3. ALL EMBEDDED PLATES AND CONNECTIONS SHALL BE STAINLESS STEEL. CONTROL HEAT DURING WELDING OF STAINLESS STEEL TO PREVENT CRACKING OF SURROUNDING CONCRETE. PRECAST CONNECTIONS SHALL BE CONCEALED OR RECESSED AND PATCHED, EXCEPT THAT EMBEDS FLUSH WITH THE SURROUNDING PANEL SURFACE ARE ACCEPTABLE AS LONG AS CONNECTION HARDWARE DOES NOT PROJECT BEYOND THE PANEL SURFACE. CONNECTIONS SHALL NOT BE VISIBLE ON THE EXTERIOR, UNLESS SHOWN OTHERWISE IN THE DRAWINGS.
- 11.4. VERIFY OPENINGS THROUGH FLOORS AND WALLS WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PROCESS REQUIREMENTS. CHANGES IN SIZE, LOCATION OR NUMBER OF OPENINGS SHALL NOT BE PERMITTED WITHOUT WRITTEN APPROVAL BY THE ENGINEER.

FOUNDATIONS

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- 12.1. FOUNDATIONS DESIGNED FOR ASSUMED BEARING CAPACITY LISTED ABOVE. SEE SPECIFICATIONS FOR STRUCTURAL EXCAVATION AND BACKFILL REQUIREMENTS.
- 12.2. CONTRACTOR SHALL VERIFY IN-SITU SOIL BEARING CAPACITY AND SHALL NOTIFY ENGINEER OF ANY UNUSUAL SOIL CONDITIONS THAT ARE IN VARIANCE WITH THE ASSUMED BEARING PRESSURE.

BUILDING	ELEVA
BUILDING NAME	ACTI ELEVA
WEST SIDE BATHROOM	689

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ELEVATION TAE ACTUAL REF ELEVATION ELE 689.29'	BLE FERENCE EVATION 100'-0"	Γ	<b>SHITECTURE + ENGINEERING</b>	4125 Westown Pkwy, Suite 100   West Des Moines, Iowa 50266 515.223.8104   www.shive-hattery.com Iowa   Illinois   Indiana   Nebraska   Wisconsin
			CEDAR RIVER CROSSING & SUTLIFF BRIDGE - WEST AREA IMPROVEMENTS	JOHNSON COUNTY CONSERVATION 5473 SUTLIFF ROAD NE, SOLON, IOWA 52333
			<sup>3</sup> BRELIMINARY	- NUL FUR CONSTRUCTION
			RESTROOM STRUCTURAL GENERAL NOTES	DAIE: 11/19/2021 PROJECT #: 4215460 FIELD BOOK:
		F	S1	.01
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		A B			
		STATEMENT OF SPECIAL INSPECTIONS	<b>PR</b>	EC	
		and Structural Testing requirements of the Building Code. It includes a schedule of Special Inspection services applicable to the structural components of this project. If applicable, it includes Requirements for Seismic Resistance and/or Requirements for Wind Resistance. This Statement of Special Inspections Encompasses the following disciplines:	2.	E	ONTR
		[X] Structural [] Mechanical / Electrical / Plumbing [] Architectural [] Other The Special Inspection Coordinates shall keep records of all inspections and shall furnish inspection reports to the Building		А. В.	COI COI PEF BOI
	1	Official and the Registered Design Professional in Responsible Charge. Discovered discrepancies shall be brought to the immediate attention of the Contractor for correction. If such discrepancies are not corrected, the discrepancies shall be brought to the attention of the Building Official and the Registered Design Professional in Responsible Charge. The Special professional in Responsible Charge.	3.	VI PI	
		Interim reports shall be submitted to the Building Official and the Registered Design Professional in Responsible Charge. A Final Report of Special Inspections documenting completion of all required Special Inspections, testing and corrections of any discrepancies noted in the inspections shall be submitted prior to issuance of a Certificate of Use and Occupancy. Job site		0 S	F SHC
		safety and means and methods of construction are solely the responsibility of the Contractor.           QUALIFICATIONS OF INSPECTORS AND TESTING TECHNICIANS			
		The qualifications of all personnel performing Special Inspection and testing activities are subject to the approval of the Building Official. The credentials of all Inspectors and testing technicians shall be provided if requested.			PETE
		Key for Minimum Qualifications of Inspection Agents:	1.		ISPEC
		stipulated test or inspection have a specific certification or license as indicated below, such designations shall appear below the Agent on the Schedule.		AI PI RI O	ND GF RESTI EINFC THER
		PE/SE Structural Engineer - A licensed SE or PE specializing in the design of building structures PE/GE Geotechnical Engineer - A licensed PE specializing in soil mechanics and foundations EIT Engineer-In-Training - A graduate engineer who has passed the Fundaments of Engineering examination		L/ B/ O	APS A ARS A F CHA
		American Concrete Institute (ACI) Certification ACI-CFTT Concrete Field Testing Technician - Grade 1	2.	R	
		ACI-CCI Concrete Construction Inspector ACI-LTT Laboratory Testing Technician - Grade 1 & 2		A.	
		ACI-STT Strength Testing Technician American Welding Society (AWS) Certification		C.	. ALL
		AWS-CWI Certified Welding Inspector AWS/AISC-SSI Certified Structural Steel Inspector	3.	IN O	ISPEC F ANC
		American Society of Non-Destructive Testing (ASNT) Inspection		PI Al	LACEI NCHO
	2	International Code Council (ICC) Certification	4.	IN S	ISPEC
		ICC-SMSI Structural Masonry Special Inspector ICC-SFSI Spray-Applied Fireproofing Special Inspector			UNCR ICLUE NCHO
		ICC-RCSI Reinforced Concrete Special Inspector		CI	LEANI DGE D
		National Institute of Certification in Engineering Technologies (NICET)			GHTE
		NICET-CT Concrete Technician - Levels I, II, III, & IV NICET-ST Soils Technician - Levels I, II, III & IV NICET CET Contracting Technician - Level L, II, III & IV	5.	R	EVIEV OMPL
		Exterior Design Institute (EDI) Certification		VI  N	ERIFY OT EX
		EDI-EIFS EIFS Third Party Inspector	6.	TE (A	EST C
-		QUALITY ASSURANCE PLAN Quality Assurance for Seismic Resistance:		TE	EMPE
		Seismic Design Category:     B     Statement of Special Inspections for Seismic Resistance required (V/N):     N	7.	IN SI	ISPEC HOTC
		<ol> <li>3. Description of Seismic-Force Resisting System subject to Special Inspection</li> <li>An An A</li></ol>		SI	EGRE
		4. Description of main Wind Force-Resisting System subject to Special Inspection NA for Wind Resistance:	8.	IN	ISPEC
		5. Description of Wind Force-Resisting components subject to Special Inspection NA of Wind Resistance:	9.	IN	ISPEC
		<ol> <li>Each Contractor responsible for the construction and fabrication of a system or component described above must submit a Statement of Responsibility.</li> </ol>	10.		
		Quality Assurance Plan for Wind Requirements:		P(	DSTR DST-T FMOV
	3	1. Nominal Design Wind Speed, Vasd =902. Wind Exposure Category:C		A	ND ST
		<ol> <li>Statement for Special Inspection for Wind Resistance Required (Y/N):</li> <li>Description of main Wind Force-Resisting System subject to Special Inspection</li> <li>NA</li> </ol>	11.		ERFO ESTIN ND FI
		5. Description of Wind Force-Resisting components subject to Special Inspection NA		<b>_</b>	
		<ol> <li>Each Contractor responsible for the construction or fabrication of a system or component described above must submit a Statement of Responsibility.</li> </ol>			
		CONTRACTOR'S RESPONSIBILITY REGARDING INSPECTIONS			
		<ol> <li>The contractor is responsible for scheduling inspections and tests. Sufficient notice and lead time must be allowed for the inspection and testing to be performed without impending construction operations.</li> </ol>	SO	ILS	6
		<ol> <li>The contractor must cooperate with the inspections and testing agencies. Safe access must be provided to all inspection and test to be performed. This may require the contractor to provide scaffolding, ladders or lifts.</li> </ol>	1.	VI F(	ERIFY DUND
-		<ol> <li>When deficiencies are identified, the contractor must take corrective actions to comply with the contract documents or remedy the deficiencies as directed by the registered design professional.</li> </ol>	2.		ESIGN
		<ol> <li>The special inspection and quality assurance program does not relieve the contractor of his or her responsibility to perform quality control.</li> </ol>		M	ATER
		5. The contractor is responsible for testing services that are required for material submittals and that not part of the special inspections program (e.g. aggregate tests, concrete mix designs, testing of controlled fill, materials, etc.).	3.	PI  M	ERFO ODIFI ACH S
			4.	VI	ERIFY
				AI DI	ND CO
			5.	P	RIOR
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CONCRETE CONSTRUCTION	SERVICE	EXTENT	AGENT
EW PLANT OPERATIONS AND QUALITY ROL PROCEDURES	PCI CERTIFIED PLANT REQUIRED BY SPECIFICATION	PERIODIC	
TION OF PRECAST CONCRETE MEMBERS			
ISPECT IN ACCORDANCE WITH ONSTRUCTION DOCUMENTS	FIELD INSPECTION	PERIODIC	
ERFORM INSPECTION OF WELDING AND OLTING IN ACCORANCE WITH STEEL ONSTRUCTION	FIELD INSPECTION	PERIODIC	
ICATION OF IN-SITU CONCRETE STRENGTH, R TO STRESSING OF TENDONS IN POST IONED CONCRETE AND PRIOR TO REMOVAL IORES AND FORMS FROM BEAMS AND CTURAL SLABS.	REVIEW FIELD TESTING AND LABORATORY REPORTS	PERIODIC	

	1		
TE CONSTRUCTION	SERVICE	EXTENT	AGENT
ECT SIZE, SPACING, COVER, POSITIONING GRADE OF REINFORCING STEEL AND STRESSING STEEL. VERIFY THAT FORCING BARS ARE FREE OF FORM OIL OR ER DELETERIOUS MATERIALS. INSPECT BAR AND MECHANICAL SPLICES. VERIFY THAT S ARE ADEQUATELY TIED AND SUPPORTED HAIRS OR BOLSTERS.	FIELD INSPECTION	PERIODIC	ACI-CCI, ICC-RCSI
FORCING STEEL WELDING	FIELD INSPECTION		
/ERIFICATION OF WELDABILITY OF STEEL DTHER THAN ASTM A706		PERIODIC	
NSPECT SINGLE PASS FILLET WELDS < 5/16"		PERIODIC	
ALL OTHER WELDS	CONTINUOUS		
ECT SIZE, POSITIONING, AND EMBEDMENT NCHOR RODS. INSPECT CONCRETE CEMENTS AND CONSOLIDATION AROUND HORS	FIELD INSPECTION	PERIODIC	
ECTION OF ANCHORS AND REINFORCING EL POST-INSTALLED IN HARDENED CRETE: PER RESEARCH REPORTS UDING VERIFICATION OF ANCHOR TYPE, HOR DIMENSIONS, HOLE DIMENSIONS, HOLE ANING PROCEDURES, ANCHOR SPACING, E DISTANCES, CONCRETE MINIMUM KNESS, ANCHOR EMBEDMENT, AND TENING TORQUE.	FIELD INSPECTION	CONTINUOUS FOR HORIZONTAL OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS. PERIODIC FOR ALL OTHER ACHORS	ACI-CCI, ICC-RCSI
EW CONCRETE BATCH TICKETS AND VERIFY PLIANCE WITH APPROVED MIX DESIGN. FY THAT WATER ADDED AT THE SITE DOES EXCEED THAT ALLOWED BY THE MIX DESIGN	FIELD INSPECTION	PERIODIC	ACI-CCI, ICC-RCSI
CONCRETE COMPRESSION STRENGTH M C31 & C39), SLUMP (ASTM C143), CONTENT (ASTM C231 OR C173) AND PERATURE (ASTM C1064)	FIELD INSPECTION	CONTINUOUS	ACI-CFTT, ACI-STT
ECT PLACEMENT OF CONCRETE AND TCRETE. VERIFY THAT CONCRETE VEYANCE AND DEPOSITING AVOIDS REGATION OR CONTAMINATION. VERIFY F CONCRETE IS PROPERLY CONSOLIDADTED.	FIELD INSPECTION	CONTINUOUS	ACI-CCI, ICC-RCSI
ECTION OF MAINTENANCE OF SPECIFIED NG TEMPERATURE AND TECHNIQUES	FIELD INSPECTION	PERIODIC	ACI-CCI, ICC-RCSI
ECTION OF FORMWORK FOR SHAPE, LINES, ATION, AND DIMENSIONS	FIELD INSPECTION	PERIODIC	ACI-CCI, ICC-RCSI
TIFY IN-SITU CONCRETE STRENGTH, PRIOR TRESSING OF TENDONS IN T-TENSIONED CONCRETE AND PRIOR TO OVAL OF SHORES AND FORMS FROM BEAMS STRUCTURAL SLAB.	FIELD TESTING AND REVIEW OF LABORATORY REPORTS	PERIODIC	
FORM FLOOR FLATNESS AND/OR LEVELNESS TING (ASTM E1155) FOR ALL SLAB-ON-GRADE ELEVATED SLAB PER SPECIFICATION.	FIELD INSPECTION	PERIODIC AT ALL BOLTED CONNECTIONS	ACI-CCI, ICC-RCSI

	SERVICE	EXTENT	AGENT
FY MATERIALS BELOW SHALLOW NDATIONS ARE ADEQUATE TO ACHIEVE THE GN	FIELD INSPECTION	PERIODIC	PE/GE/EIT
FY EXCAVATIONS ARE EXTENDED TO PER DEPTH AND HAVE REACHED PROPER ERIAL	FIELD INSPECTION	PERIODIC	PE/GE/EIT
FORM SIEVE TESTS (ASTM D422 & D1140) AND IFIED PROCTOR TESTS (ASTM D1557) OF H SOURSE OF FILL MATERIAL	FIELD INSPECTION	PERIODIC	PE/GE/EIT
FY USE OF PROPER MATERIALS, DENSITIES, LIFT THICKNESSES DURING PLACEMENT COMPACTION OF COMPACTED FILL. TEST SITY OF EACH LIFT OR FILL BY NUCLEAR HODS (ASTM D2922)	FIELD INSPECTION	CONTINUOUS	PE/GE/EIT
R TO PLACEMENT OF COMPACTED FILL, ERVE SUBGRADE AND VERIFY THAT THE SITE BEEN PREPARED PROPERLY	FIELD INSPECTION	PERIODIC	PE/GE/EIT

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STE	EL CO	DNSTRUCTION	SERVICE	EXTENT	AGENT	
1.	FABR	ICATOR CERTIFICATION	AISC CERTIFIED FABRICATOR			
<u> </u>			REQUIRED BY SPECIFICATION			
2.	MATE MILL MARK STRE ELEC	RIAL VERIFICATION. REVIEW CERTIFIED TEST REPORTS AND IDENTIFICATION (INGS ON WIDE-FLANGE SHAPES, HIGH NGTH BOLTS, NUTS, AND WELDING TRODES	FIELD INSPECTION	PERIODIC		
3.	EMBE LENG CONS	DMENTS: VERIFY DIAMETER, GRADE, TYPE, TH, AND EMBEDMENT. SEE CONCRETE TRUCTION FOR ANCHORS	FIELD INSPECTION	PERIODIC		
1.	VERIF SITFF DETA CONS	Y MEMBER LOCATIONS, BRACES, ENERS, AND APPLICATION OF JOINT ILS AT EACH CONNECTION COMPLY WITH TRUCTION DOCUMENTS	FIELD INSPECTION	PERIODIC		
5.	STRU					
	A. IN (C J( Al	ISPECTION TASKS PRIOR TO WELDING DBSERVE OR PERFORM FOR EACH WELDED DINT OR MEMBER, THE QA TASKS LISTED IN ISC 360, TABLE N5.4-1)	FIELD INSPECTION	PERIODIC AT ALL WELDED JOINTS		
	B. IN (C JC Al	ISPECTION TASKS DURING WELDING DBSERVE OR PERFORM FOR EACH WELDED DINT OR MEMBER, THE QA TASKS LISTED IN ISC 360, TABLE N5.4-2)	FIELD INSPECTION	PERIODIC AT ALL WELDED JOINTS		
	C. IN (C JC Al	ISPECTION TASKS AFTER WELDING DESERVE OR PERFORM FOR EACH WELDED DINT OR MEMBER, THE QA TASKS LISTED IN ISC 360, TABLE N5.4-3)	FIELD INSPECTION	PERIODIC AT ALL WELDED JOINTS		
	D. N	ON-DESTRUCTIVE TESTING (NDT) OF				
	1)	COMPLETE PENETRATION WELDS WHEN	FIELD ULTRASONIC TESTING -	PERIODIC		
	2)	WELDED JOINTS SUBJECT TO FATIGUE WHEN REQUIRED BY AISC 360, APPENDIX 3, TABLE A-3.2	FIELD RADIOGRAPHIC OR ULTRASONIC TESTING	PERIODIC		
	3)	FABRICATOR'S NDT REPORTS WHEN FABRICATOR PERFORMS NDT	VERIFY REPORTS	EACH SUBMITTAL		
б.	STRU	CTURAL STEEL BOLTING:				
	A. IN (C B( Q	ISPECTION TASKS PRIOR TO BOLTING DBSERVE OR PERFORM TASKS FOR EACH OLTED CONNECTION, IN ACCORDANCE WITH A TASKS LISTED IN AISC 360, TABLE N5.6-1)	FIELD INSPECTION	PERIODIC AT ALL BOLTED CONNECTIONS		
	B. IN (C T/	ISPECTION TASKS DURING BOLTING DBSERVE THE QA TASKS LISTED IN AISC 360, ABLE N5.6-2)	FIELD INSPECTION	PERIODIC AT ALL BOLTED CONNECTIONS		
	1)	PRE-TENSIONED AND SLIP-CRITICAL JOINTS				
		a. TURN-OF-NUT WITH MATCHING		CONTINUOUS		
		b. DIRECT TENSION INDICATOR		CONTINUOUS		
		c. TWIST-OFF TYPE TENSION CONTROL		CONTINUOUS		
		d. TURN-OF-NUT WITHOUT MATCHING				
				CONTINUOUS		
	2)	SNUG-TIGHT JOINTS				
	C. IN (F C' T/	ISPECTION TASKS AFTER BOLTING PERFORM TASKS FOR EACH BOLTED ONNECTION IN ACCORDANCE WITH QA ASKS LISTED IN AISC 360, TABLE N5.6-3	FIELD INSPECTION	PERIODIC AT ALL BOLTED CONNECTIONS		
7.	INSPE COMF CONC NUME CONN DEGR CONN ALL Q	ECTION OF STEEL ELEMENTS OF POSITE CONSTRUCTION PRIOR TO RETE PLACEMENT: INSPECT SIZE, BER, POSITIONING, AND WELDING OF SHEAR RECTORS. INSPECT STUDS FOR FULL 360 REE FLASH. PING TEST ALL SHEAR RECTORS WITH A 3 LB HAMMER. BEND TEST RUESTIONABLE STUDS TO 15 DEGREES	FIELD INSPECTION AND TESTING	PERIODIC		
3.	MATE STEE	RIAL VERIFICATION OF COLD-FORMED L DECK: IDENTIFICATION MARKINGS	FIELD INSPECTION	PERIODIC		
€.	CONN SUPP AND S FLOO APPR	IECTION OF COLD-FORMED STEEL DECK TO ORTING STRUCTURE: INSPECT WELDING SIDE-LAP FASTENING OF METAL ROOF AND R DECK IS IN CONFORMANCE WITH OVED SUBMITTAL.	FIELD INSPECTION	PERIODIC		
10.	COLD FEET PERM INSTA APPR	-FORMED STEEL TRUSSES SPANNING 60 OR GREATER: VERIFY TEMPORARY AND IANENT RESTRAINT/BRACING ARE ILLED IN ACCORDANCE WITH THE OVED TRUSS SUBMITTAL PACKAGE	FIELD INSPECTION	PERIODIC		
11.	OPEN INSTA AND E WITH	WEB STEEL JOIST: INSPECT ALLATION, FIELD WELDING, FIELD BOLTING, BRIDGING OF JOIST IS IN CONFORMANCE APPROVED SUBMITTAL	FIELD INSPECTION	PERIODIC		

Е

Е

С

![](_page_17_Figure_9.jpeg)

F

![](_page_18_Figure_0.jpeg)

![](_page_19_Figure_0.jpeg)

		A		В	
	1				
	2				
	3				
	4				
M					
11/18/2021 12:45:16 PN		Α		В	
			1		<u> </u>

![](_page_20_Figure_1.jpeg)

С

![](_page_20_Figure_2.jpeg)

D

**4 TYPICAL FIXTURE CLEAR FLOOR SPACE REQUIREMENTS** 1/4" = 1'-0"

![](_page_20_Figure_4.jpeg)

ACCESSIBLE LAV CODE

REQUIRED CLEARANCES

![](_page_20_Figure_5.jpeg)

TYPICAL ACCESSIBLE

TOILET CODE REQUIRED

CLEARANCES

![](_page_20_Figure_6.jpeg)

![](_page_20_Figure_7.jpeg)

DOOR PULL APPROACH - FRONT

REQUIRED CLEAR AREA

С

![](_page_20_Figure_8.jpeg)

DOOR PUSH APPROACH - FRONT

P

REQUIRED CLEAR AREA

![](_page_20_Figure_9.jpeg)

DOOR PULL APPROACH - LATCH SIDE

REQUIRED CLEAR AREA

![](_page_20_Figure_10.jpeg)

DOOR PULL APPROACH - HINGE SIDE

REQUIRED CLEAR AREA

![](_page_20_Figure_11.jpeg)

0

![](_page_20_Figure_12.jpeg)

![](_page_20_Figure_13.jpeg)

![](_page_20_Figure_14.jpeg)

3'-9"

MAX

Е

![](_page_20_Figure_16.jpeg)

![](_page_21_Figure_0.jpeg)

![](_page_21_Figure_1.jpeg)

D

### 3 RESTROOM ROOF PLAN 1/4" = 1'-0"

# ROOM FINISH SCHEDULE

E

				WA	LLS	
ROOM NAME	FLR	BASE	NORTH	EAST	SOUTH	
TOILET	CONC DNSFR	-	EPXY PNT	EPXY PNT	EPXY PNT	
TOILET	CONC DNSFR	-	EPXY PNT	EPXY PNT	EPXY PNT	
TOILET	CONC DNSFR	-	EPXY PNT	EPXY PNT	EPXY PNT	
TOILET	CONC DNSFR	-	EPXY PNT	EPXY PNT	EPXY PNT	
	ROOM NAME TOILET TOILET TOILET TOILET	ROOM NAMEFLRTOILETCONC DNSFRTOILETCONC DNSFRTOILETCONC DNSFRTOILETCONC DNSFR	ROOM NAMEFLRBASETOILETCONC DNSFR-TOILETCONC DNSFR-TOILETCONC DNSFR-TOILETCONC DNSFR-	ROOM NAMEFLRBASENORTHTOILETCONC DNSFR-EPXY PNTTOILETCONC DNSFR-EPXY PNTTOILETCONC DNSFR-EPXY PNTTOILETCONC DNSFR-EPXY PNT	ROOM NAMEFLRBASENORTHEASTTOILETCONC DNSFR-EPXY PNTEPXY PNTTOILETCONC DNSFR-EPXY PNTEPXY PNTTOILETCONC DNSFR-EPXY PNTEPXY PNTTOILETCONC DNSFR-EPXY PNTEPXY PNTTOILETCONC DNSFR-EPXY PNTEPXY PNT	ROOM NAMEFLRBASEWALLSTOILETCONC DNSFR-EPXY PNTEASTSOUTHTOILETCONC DNSFR-EPXY PNTEPXY PNTEPXY PNTTOILETCONC DNSFR-EPXY PNTEPXY PNTEPXY PNTTOILETCONC DNSFR-EPXY PNTEPXY PNTEPXY PNTTOILETCONC DNSFR-EPXY PNTEPXY PNTEPXY PNT

# DOOR AND FRAME SCHEDULE

DOOR	SWING		SIZE				
NUMBER	TYPE	WD	HT	ТК	LEAF TYPE	LEAF MTRL	LEAF G
101	S	3'-0"	7'-0"	1 3/4"	HL	FRP	-
102	S	3'-0"	7'-0"	1 3/4"	HL	FRP	-
103	S	3'-0"	7'-0"	1 3/4"	HL	FRP	-
104	S	3'-0"	7'-0"	1 3/4"	HL	FRP	-

![](_page_21_Figure_8.jpeg)

D

![](_page_21_Figure_12.jpeg)

![](_page_22_Figure_0.jpeg)

![](_page_23_Figure_0.jpeg)