BUILDING DESIGN CRITERIA		FOUNDATIONS:
GOVERNING CODE: 2017 OHIO BUILDING CODE IN CONJUNCTION RISK CATEGORY:	WITH ASCE 7-10	1. THE GENERAL CONTRACTOR AND THE FOU FAMILIARIZE THEMSELVES WITH THE SURV REPORT BEFORE STARTING CONSTRUCTION
FLOOR LIVE LOADS: CLASSROOMS (INCLUDES PARTITION LOAD) 55	5 PSF	2. NOTIFY THE A/E AND OWNER'S REPRESEN CONDITION THAT ARE IN VARIANCE WITH T OR SEEPAGE WATER ENCOUNTERED, OR V
CORRIDORS ABOVE FIRST FLOOR 80 FIRST FLOOR CORRIDORS 10 STAIRWAYS 11 MECHANICAL ROOM 11	0 PSF 00 PSF 00 PSF 50 PSF	MATERIAL IS EVIDENT AND THERE IS A QUE CAPACITY. 3 SET FOUNDATION AT ELEVATION SHOWN (
ROOF LIVE LOAD 20	0 PSF	MATERIAL OF DESIGN BEARING CAPACITY, GEOTECHNICAL ENGINEER SHALL VERIFY BEARING ON DESIGN MATERIAL.
GROUND SNOW LOAD, Pg: 24 FLAT ROOF SNOW LOAD, Pf: 25	0 PSF 2 PSF	A. ALL SOIL SURROUNDING AND UNDER ETC. SHALL BE PROTECTED FROM FF DURING CONSTRUCTION.
SNOW EXPOSURE FACTOR, Ce:1SNOW IMPORTANCE FACTOR:1THERMAL FACTOR, Ct:1SNOW DRIFT:P	.2 1 .0 ER ASCE-7	B. WHERE FOOTINGS ARE IN CLOSE PRO CONDUITS UNDER FLOOR PIPES, ETC SHALL BE AT OR BELOW INVERT ELEV
WIND LOAD:	15 MPH	 HEREIN. STEP FOOTINGS AT A RATIO OF ONE (1) VE WITH A MAXIMUM VERTICAL STEP OF 2'-0" I
NOMINAL DESIGN WIND SPEED (Vaid): 90 WIND EXPOSURE: B INTERNAL PRESSURE COEFFICIENT: ±0 ODDUCTION OF DEDUCTION ±0	0.18	 SITE PREPARATION, STRIPPING, PROOF RC SHALL BE DONE IN COMPLIANCE WITH PRO
SEISMIC LOAD:	EE TABLE S-002	REPORT. ALL FILL MATERIAL SHALL MEET PROJECT SPECIFICATIONS.
SEISMIC IMPORTANCE FACTOR 1 SITE SPECTRAL RESPONSE ACCELERATION (Ss): 0 SITE SPECTRAL RESPONSE ACCELERATION (S1): 0 SEISMIC SITE CLASS: C	25 127 055	 INUNDATION AND LONG TERM EXPOSURE (WILL RESULT IN DETERIORATION OF BEARI PREVENTED. EXCAVATION TO FINAL BEAR MADE UNTIL JUST PRIOR TO PLACING FOUL
DESIGN SPECTRAL RESPONSE ACCELERATION (Sds): 0. DESIGN SPECTRAL RESPONSE ACCELERATION (Sd1): 0. SEISMIC DESIGN CATEGORY: A SEISMIC FORCE RESISTING SYSTEM: IN	102 62 ITERMEDIATE REINFORCED	7. BACKFILLING AGAINST FOUNDATION SHALL SUPPORTING FLOORS ARE IN PLACE AND A IMPOSED LATERAL FORCES. EXCEPT FOR
RESPONSE MODIFICATION FACTOR R: 3 SEISMIC BASE SHEAR (V): 0 SEISMIC RESPONSE COFFEICIENT (Cs): 0	IASONRY WALLS 5 .036W KIPS .036	OR UNLESS NOTED OTHERWISE ON DRAW SUPPORTED BY THE FLOOR ABOVE AND BE BRACING MAY BE USED IN LIEU OF THE FLO DESIGN BY A PROFESSIONAL ENGINEER 1
ANALYSIS METHOD:	QUIVALENT LATERAL FORCE	 BRACING IS THE RESPONSIBILITY OF THE C BACKFILL AND FILL MATERIALS SHALL BE F MATERIAL, ORGANIC AND OTHER DELETER
		A. POROUS FILL (SUB-BASE FOR SLAB C LIMESTONE COMPACTED, (MINIMUM (GRADATION SHALL CONFORM WITH A
GENERAL CONDITIONS: SEE SPECIFICATIONS FOR QUALITY OF CONSTRUCTION OF WORK, MANUEACTURING AND INDUSTRY STANDARD:	REQUIRED, QUALITY	B. DRAINAGE FILL SHALL BE WASHED, U CRUSHED STONE OR UNCRUSHED GI RETAINING WALL HAVING THE FOLLO
PROPERTIES OF MATERIALS, CONFORMANCE TO CODES REGULATIONS GUARANTEE AND WARRANTY REQUIREM	S AND ENTS.	SIEVE SIZE TOTAL % PASSING
2. SEE ANSTITUE TORAL, ITVAC, PLUMBING, ELEVATOR, FIR ELECTRICAL DRAWINGS FOR OTHER PERTINENT INFORM STRUCTURAL WORK AND COORDINATE AS REQUIRED. (SHALL COORDINATE STRUCTURAL DRAWINGS WITH ALL	MATION RELATED TO CONTRACTOR OTHER DRAWINGS	3/8" 90-100 3/8" 20-55 NO. 4 0-10 NO. 8 0-5
 WITHIN THE CONTRACT DOCUMENTS. 3. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELE CONDITIONS RELATED TO EXISTING CONSTRUCTION FX 	VATIONS AND ISTING SERVICES.	C. WELL GRADED GRANULAR MATERIAL ASTM C33.
 4. CONSTRUCTION LOADS SHALL NOT EXCEED DESIGN LIV CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DESIGN LIV 		9. ALL EXCAVATIONS ARE SUBJECT TO THE A TESTING AGENCY WHO SHALL BE CONSUL OBSTRUCTIONS, PIPING, ADJACENT SEWEI EXCAVATIONS, ETC. ARE ENCOUNTERED
SUPPORT CONSTRUCTION EQUIPMENT USED IN CONSTR SUPPORT CONSTRUCTION EQUIPMENT USED IN CONSTR PROJECT. ALL EQUIPMENT SUPPORT DESIGN SHALL BE ENGINEER LICENSED IN THE STATE OF THE PROJECT. SI	RUCTING THIS PERFORMED BY AN HORING AND	 10. EXCAVATION AND COMPACTION:
 5. IF MATERIALS, QUANTITIES, STRENGTHS OR SIZES INDIC DRAWINGS OR SPECIFICATIONS ARE NOT IN AGREEMEN 	OK. ATED BY THE T WITH THESE	A. CARE SHALL BE TAKEN TO NOT TO DI EXCAVATION. EXCAVATION TO FINAL UNTIL JUST PRIOR TO PLACING CONC
 NOTES, THE BETTER QUALITY AND/OR QUANTITY, STREMINDICATED, SPECIFIED OR NOTED SHALL BE PROVIDED. 6. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE FORMER FORMER FOR THE FORMER FOR FOR THE FORMER FOR FORMER FOR FOR FORMER FOR FOR FOR FOR FOR FOR FOR FOR FOR FO	NGTH OR SIZE	B. KEEP FOUNDATION EXCAVATIONS FR REPLACE WEAKENED SOIL WITH LEAC. BACKFILL AND FILL SHALL BE PLACED
THAT WILL NOT BE REVIEWED BY THE OWNER, ARCHITE A. DEVIATIONS FROM CONTRACT DOCUMENTS.	CT OR ENGINEER:	DEPTH. EACH LIFT SHALL BE COMPA COMPACTOR OR SIMILAR EQUIPMEN COMPACTION OF THE MATERIAL.
 B. DIMENSIONS, ELEVATIONS AND CONDITIONS TO BE CORRELATED AT THE SITE. CORDUCTION PROCESS INFORMATION 	E CONFIRMED AND	11. DEWATERING OF THE SITE MAY BE REQUIP DEWATERING ARE THE CONTRACTORS RE OF WORK DRAINED AND FREE FROM ACCU
 C. FABRICATION PROCESS INFORMATION. D. MEANS, METHODS, TECHNIQUES, PROCEDURES O AND CONSTRUCTION SAFETY. 	F CONSTRUCTION	 AT ALL TIMES. PROVIDE, OPERATE AND MA EQUIPMENT, ETC. AS REQUIRED. 12. A TESTING AGENCY, PROVIDED BY THE OW
 E. COORDINATION OF THE WORK OF ALL TRADES. 7. ANY CHANGES TO THE STRUCTURAL SYSTEMS SHALL BI 	E REDESIGNED BY A	CONDITION AND ASSURE THE ADEQUACY (CAPACITY, FILL AND BACKFILLS BEFORE PL TEST RESULTS SHALL BE SENT TO THE EN
PROFESSIONAL ENGINEER AT NO COST TO THE OWNER SUBMITTED TO THE A/E FOR REVIEW. SUBMITTAL SHALL ACKNOWLEDGED IN WRITING BEFORE BEGINNING CONS	OR THE A/E AND BE STRUCTION. IF	A. AT FOOTING SUBGRADES, AT LEAST (STRATUM WILL BE PERFORMED TO V CAPACITIES.
BE THE LEGAL AND FINANCIAL RESPONSIBILITY OF THE F CHANGE TO REPLACE OR REPAIR THE CONDITION AS DI	PARTY MAKING THE RECTED BY THE A/E.	B. TESTING AGENCY WILL TEST COMPA ACCORDING TO ASTM D1556, D2167, I APPLICABLE. TEST PER FOLLOWING:
8. DO NOT SCALE DRAWINGS		1. PAVED AND BUILDING SLAB ARE COMPACTED FILL LAYER, AT LE SQ. FT., BUT IN NO CASE LESS 1
GEOTECHNICAL REPORT: 1. REFERENCE THE GEOTECHNICAL REPORT COMPLETED	FOR THIS SITE BY	2. FOOTINGS: AT EACH COMPACT FOOTING OR ONE TEST FOR EA
INTERTEK/PSI DATED JULY 29, 2022 FOR FURTHER INFOF TO THE EXISTING SUBSURFACE SOIL CONDITIONS. 2. DESIGN SOIL BEARING PRESSURE = 2500 PSF.	RMATION RELATING	C. CONTRACTOR SHALL RECOMPACT AI COMPACTION IS OBTAINED.
3. ENGINEERED FILL SHALL BE PLACED IN LIFTS NOT EXCE SLAB ON GRADE CONSTRUCTION SHALL BE COMPACTED	EDING 8". FILL FOR	CAST IN PLACE CONCRETE:
98% MAXIMUM DENSITY BY ASTM D698. FILL FOR FOOTIN ENGINEERED FILL SHALL BE COMPACTED TO A MINIMUM BY ASTM D698.	NGS BEARING ON 1 OF 98% MAXIMUM	1. CAST-IN-PLACE CONCRETE WORK SHALL C CONCRETE INSTITUTE CODES AND STAND, SPECIFICATIONS FOR STRUCTURAL CONCI OF THESE DRAWINGS. ALL CONCRETE CO
		 TO ACI 301, EXCEPT AS EXPLICITLY MODIFII ALL CONCRETE WORK SHALL BE IN ACCOF BLUE DING CODE REQUIREMENTS FOR REIN
		3. ALL CONCRETE SHALL BE IN ACCORDANCE REQUIREMENTS FOR ENVIRONMENTAL EN
		 STRUCTURES". CONCRETE SHALL HAVE THE MINIMUM COI DAYS: (SUBMIT CONCRETE MIXES IN ACCO
EXCAVATION: 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AVOIDA		PLACING ANY CONCRETE). A. CLASS I: 4000 PSI FOR BUILDING FOO CONCRETE NOT OTHERWISE NOTED B. CLASS II: 4000 PSI WITH AIR ENTRAIN
OF STREET SPILLAGE OF EXCAVATED OR BACKFILL MAT OR LEAVING THE SITE. CLEANUP OF MAJOR SPILLS SHA IMMEDIATELY. OTHER SPILLS SHALL BE CLEANED, AT A ALL CLEANUP SHALL BE COMPLETED TO THE FULL SATIS	ERIALS ENTERING LL BE COMPLETED MINIMUM, DAILY. SFACTION OF THE	CONCRETE PERMANENTLY EXPOSED 0.45. C. CLASS III: 500 PSI FOR EARTH FILL (NO D. CLASS IV: 2500 PSI FOR MASONIDY OF
 OWNER AND CONSTRUCTION MANAGER. THE CONTRACTOR SHALL PROPERLY MOISTEN SURFAC PREVENT SOILS FROM BECOMING AIPPOPULS AND ODE A 	ES AS REQUIRED TO	AGGREGATE SIZE, 7" SLUMP). E. CLASS V: 4000 PSI FOR INTERIOR SLA
TO NEIGHBORING FACILITIES, THE PUBLIC, AND ANY CON ACTIVITIES. THE FINAL DETERMINATION OF THE SUCCES CONTROL MEASURES SHALL BE THE OWNER AND CONS	NCURRENT WORK SS OF DUST TRUCTION	5. REINFORCING BARS: ASTM 615, GRADE 60 WELDING A615 BARS SHALL NOT BE PERMI EACH WAY IN ALL CAST-IN-PLACE CONCRE
3. ANY SITE DE-WATERING NECESSARY TO MAINTAIN A SAI EXCAVATION EFFORT SHALL BE THE RESPONSIBILITY OF	FE AND EFFICIENT THE	6. REINFORCING BARS FOR WELDED APPLICA A706, 60KSI YIELD STRENGTH.
 4. ALL WORK SHALL BE EXECUTED AND INSPECTED IN ACC LOCAL, STATE AND FEDERAL CODES. RULES ORDINANCE 	ORDANCE WITH ALL ES AND	7. PROVIDE SYNTHETIC MACROFIBER IN ALL T PROVIDE WWF IN STAIR LANDINGS, EQUIPM GROUND UNO.
REGULATIONS PERTAINING TO SITE EXCAVATION, FILL A ACTIVITIES.		8. BEND ALL HORIZONTAL WALL AND BEAM B. UNLESS OTHERWISE NOTED. PROVIDE ACI
NOTED IN THE GEOTECHNICAL REPORT, OR AT A SHALL REQUIRED TO PROTECT WORKERS AND WORK IN PROG SLIPPAGE. ALL EXCAVATION ACTIVITIES SHALL BE COMP	OWER SLOPE IF RESS FROM SOIL PLETED IN	9. KEINFORCING BARS REQUIRED FOR PROP REINFORCING SHALL BE DETAILED AND SU WHETHER OR NOT THEY ARE INDICATED C BAR SIZE SHALL BE #4 AND THE MAXIMUM
 ACCORDANCE WITH OCCUPATIONAL SAFETY AND HEAL REQUIREMENTS AND ALL OTHER APPLICABLE CODES AN 6. ANY SHARP OR LARGE OBJECTS PROTRUDING ABOVE T 	I H (USHA) ND ORDINANCES. HE FINAL ROUGH	10. PROVIDE CORROSION RESISTANT ACCESS CHAIRS OR CHAIRS WITH COATED TIPS
GRADE SHALL BE REMOVED. RESULTING HOLES SHALL SELECT FILL MEETING THE REQUIREMENTS AS SET IN TH SPECIFICATIONS.	BE FILLED WITH HE PROJECT	CONSTRUCTION. PRECAST CONCRETE CL SHALL BE USED FOR THE SUPPORT OF RE CONCRETE BLOCK OR CLAY MASONRY BR
7. ALL EXCESS EXCAVATED MATERIALS THAT ARE NOT REI REMOVED FROM THE SITE PROPERLY AND LEGALLY DIS SITE LOCATION. REFERENCE SPECIFICATIONS FOR REC	USABLE SHALL BE POSED AT ON OFF QUIREMENTS	11. NO CONCRETE SHALL BE PLACED UNTIL TH AND TEST HAVE BEEN SUBMITTED TO AND AND AFTER THE CONTRACTOR HAS RECEI
 8. MUD-MATTING MAY BE REQUIRED TO PROVIDE STABLE \$ 	DR BACKFILL.	ACKNOWLEDGEMENT. 12. ALL CEMENT SHALL BE TYPE I OR TYPE III, I BE USED.
FORMING AND PLACEMENT OF REINFORCING STEEL ANI PLACEMENT OF CONCRETE, SEE PROJECT SPECIFICATION	J SUBSEQUENTLY ONS.	13. CONCRETE SHALL BE DISCHARGED AT THE WATER HAS BEEN ADDED TO THE CEMENT WATER TO THE MIX AT THE PROJECT OUTS
		WATER MUST BE ADDED AT THE BATCH PL ONLY THROUGH THE USE OF ADDITIONAL V OR HIGH RANGE WATER REDUCING ADMIX
		14. ALL CONCRETE SHALL CONTAIN A WATER CONFORMING TO ASTM C494, TYPE A, F OF
		 CALCIUM CHLORIDE SHALL NOT BE PERMIT CONTAINING CALCIUM CHLORIDE BE PERM ALL CONCRETE EXPOSED TO THE MEATURE
		VULNERABLE TO DEICERS SHALL CONTAIN CONFORMING TO ASTM C260. THE AMOUN 6%±1%.
		17. PROVIDE CONSTRUCTION JOINTS IN ACCO DRAWINGS SHOWING SEQUENCE AND DIRI SLAB SHRINKAGE FOR ENGINEER'S REVIEV
 1 7	2	Л

UNDATION CONTRACTOR SHALL YEY AND THE GEOTECHNICAL ITATIVE OF ANY UNUSUAL SOIL

EST BORINGS, SUCH AS SPRING WHEN A DIFFERENT BEARING JESTION OF THE BEARING

, OR ON FIRM UNDISTURBED , WHICHEVER IS LOWER. THE THAT EACH FOOTING PLACED IS

R ALL FOOTINGS, FLOOR SLABS, REEZING AND FROST ACTION ROXIMITY OF SEWERS, DRAINS,

., BOTTOM OF ALL FOOTINGS VATIONS OF ELEMENTS NOTED ERTICAL TO TWO (2) HORIZONTAL,

UNLESS NOTED OTHERWISE. OLLING, FILLING AND BACKFILLING JECT SPECIFICATIONS AND IN IONS OF THE GEOTECHNICAL THE REQUIREMENTS OF THE

OF BEARING SURFACES, WHICH RING FORMATIONS SHALL BE RING ELEVATION SHALL NOT BE

NDATIONS. L NOT BE PERMITTED UNTIL THE ARE ABLE TO RESIST THE CANTILEVER RETAINING WALLS /INGS, THE WALLS ARE ELOW. PROPER TEMPORARY OOR SUPPORT BASED UPON THE HE DESIGN OF TEMPORARY ONTRACTOR. FREE OF DEBRIS, WASTE, FROZEN

RIOUS MATTER, ON GRADE) SHALL BE CRUSHED "THICK UNDER FLOOR SLABS). ASTM C33 SIZE #57.

JNIFORMLY GRADED MIXTURE OF RAVEL AT EXTERIOR WALLS AND OWING GRADATION:

L (#8) SHALL CONFORM WITH

PPROVAL OF THE OWNER AND TED WHEN POOR SOIL, WATER, RS, EXISTING FOOTINGS,

ISTURB THE BOTTOM OF THE GRADE SHALL NOT BE MADE CRETE.

REE OF WATER AT ALL TIMES. N CONCRETE (1500 PSI). D IN LIFTS OF 8" MAXIMUM LOOSE

CTED WITH A POWER VIBRATING TO ASSURE MAXIMUM RED. METHODS FOR SPONSIBILITY. KEEP THE AREA

JMULATION OF SURFACE WATER AINTAIN PUMPS, PUMPING NER, SHALL INSPECT THE

OF ALL SUBGRADES, BEARING LACEMENT OF FOUNDATIONS. GINEER AND TO THE OWNER. ONE TEST OF EACH SOIL **ERIFY DESIGN BEARING**

CTION OF SOILS IN PLACE 2922, AND ASTM D2937, AS

REAS: AT SUBGRADE AND AT EACH EAST ONE TEST FOR EVERY 2000 FHAN 3 TESTS.

ED BACKFILL LAYER AT EACH CH 100 FT OF WALL FOOTING. AND RETEST UNTIL SPECIFIED

ONFORM TO THE AMERICAN ARDS. ACI 301 "STANDARD RETE" IS HEREBY MADE A PART NSTRUCTION SHALL CONFORM

D HEREIN. DANCE WITH ACI 318, "THE FORCED CONCRETE". WITH ACI 350 "CODE GINEERING CONCRETE

MPRESSIVE STRENGTH AT 28 RDANCE WITH ACI 301 PRIOR TO INGS, PIERS AND ALL INTERIOR), MAX W/C RATIO=0.45. MENT (4%-7%) ALL EXTERIOR TO WEATHER, MAX W/C RATIO= TESTING REQUIRED). ROUT (3/8"Ø MAXIMUM

AB ON GRADE, MAX W/C RATIO=0.4 (UNO) WELDING OR TACK TTED. PROVIDE #5 AT 12"OC,

LE UNO ATIONS SHALL CONFORM WITH

TOPPING SLABS UNO, AND MENT PADS AND ALL SLABS ON

BARS AROUND ALL CORNERS, LAP EACH SIDE.

PER SUPPORT OF PRINCIPAL JPPLIED BY THE CONTRACTOR ON THE DRAWINGS. THE MINIMUM SPACING SHALL BE 36" ON

ORIES SUCH AS GRAY PLASTIC ALL EXPOSED CONCRETE UBES OR SAND PLATE CHAIRS INFORCING ON GRADE. RICK ARE NOT PERMITTED. HE PROPOSED CONCRETE MIX

REVIEWED BY THE ARCHITECT VED WRITTEN

BLENDED CEMENTS SHALL NOT

E SITE WITHIN 1 1/2 HOURS AFTER AND AGGREGATES, ADDITION OF WILL NOT BE PERMITTED. ALL ANT. SLUMP MAY BE ADJUSTED WATER REDUCING ADMIXTURE URE.

REDUCING ADMIXTURE ITTED.

TTED NOR SHALL ANY ADMIXTURE ER OR IN A LOCATION AN AIR-ENTRAINED ADMIXTURE T OF ENTRAINED AIR SHALL BE

RDANCE WITH ACI 318. SUBMIT RECTION OF POUR TO PERMIT

5

- CAST IN PLACE CONCRETE (CON'T):
- 20. WHERE CONSTRUCTION JOINTS ARE REQUIRED BUT ARE NOT INDICATED ON THE DRAWINGS, THEY SHALL BE LOCATED AT MIDSPAN OF SLABS AND WALLS, AND SHALL BE SUBJECT TO REVIEW BY THE A/E OR OWNER. UNLESS OTHERWISE NOTED OR SHOWN ON THE DRAWINGS, PROVIDE A CONTINUOUS SHEAR KEY IN SLABS AND WALLS. THE MINIMUM KEY SIZE SHALL BE 1 1/2" DEEP BY 1/3 THE DEPTH OR WIDTH OF THE MEMBER. AT CONCRETE SLABS ON STEEL DECK, SUPPORTED BY STEEL BEAMS, CONSTRUCTION JOINTS SHALL BE PLACED AT MIDSPAN OF DECK AND MID-

6

- WAY BETWEEN BEAMS. 21. ALL CONSTRUCTION JOINTS BELOW GRADE SHALL HAVE WATERSTOPS, UNLESS NOTED OTHERWISE.
- 22. 3/4" CHAMFER FOR EXPOSED EDGES OF CONCRETE UNO 23. VERIFY WITH ARCHITECTURAL DRAWINGS FOR TOP OF STRUCTURAL SLAB,
- BONDED TOPPING, WEARING SLAB AND SLAB ON GRADE ELEVATIONS. 24. SEE ARCHITECTURAL DRAWINGS FOR LOCATION AND EXTENT OF SPECIAL
- FINISHES OR TREATMENTS TO CONCRETE. 25. COORDINATE ALL WORK RELATED TO OWNER-SUPPLIED EQUIPMENT OR EQUIPMENT SUPPLIED BY ANOTHER CONTRACTOR BY USING ONLY
- CERTIFIED EQUIPMENT DRAWINGS.
- 26. DETERMINE SIZE AND LOCATION OF MECHANICAL EQUIPMENT, AND MAKE PROVISIONS FOR BOLTS, SLEEVES, PADS, OPENINGS, DRAINS, ANCHOR RODS AND EMBEDDED ITEMS ETC. IN ACCORDANCE WITH THE MANUFACTURER'S CERTIFIED DRAWINGS. THIS WORK SHALL BE COORDINATED WITH ALL TRADES INVOLVED.
- 27. PROVIDE SAWCUT CONTROL JOINTS IN ALL SLABS ON GRADE. THE MAXIMUM SPACING OF JOINTS SHALL BE 36 TIMES THE SLAB THICKNESS IN BOTH DIRECTIONS, UNLESS OTHERWISE NOTED. 28. PROVIDE BOND BREAKER BETWEEN MASONRY BEARING WALLS AND ALL
- CAST-IN-PLACE CONCRETE SLABS AND BEAMS UNO 29. FOR BONDED TOPPING SLAB OVER PRECAST SEE PLANS. PROVIDE ULTIMATE COMPRESSIVE STRENGTH OF 4000 PSI IN 28 DAYS. PROVIDE
- SYNTHETIC MACROFIBER IN BONDED TOPPING. PRIOR TO PLACING CONCRETE TOPPING, THE PRECAST SURFACE MUST BE CLEAN AND DAMP WITH NO STANDING WATER. 30. OPENINGS:
- A. OPENINGS SHOWN ARE FOR BIDDING PURPOSES ONLY. RECONCILE THEIR EXACT SIZES AND LOCATIONS WITH HVAC, PLUMBING, AND OTHER REQUIREMENTS BEFORE PROCEEDING WITH WORK.
- B. OPENINGS SHALL NOT BE PROVIDED IN FRAMED SLABS, BEAMS, JOISTS, COLUMNS, AND WALLS UNLESS SHOWN ON STRUCTURAL DRAWINGS. IF ANY OPENING NOT SHOWN ON THE PLANS IS REQUIRED, SECURE APPROVAL OF THE A/E BEFORE PROCEEDING.
- C. PROVIDE 1/2 NUMBER OF BARS INTERRUPTED PLUS ONE TYPICAL EACH FACE OF OPENING. PROVIDE TWO #5 BARS AROUND ALL SLAB AND WALL OPENINGS, EXTENDING 2'-0" BEYOND OPENING IN EVERY DIRECTION UNLESS NOTED. OPENINGS NOT EXCEEDING 16"x16" MAY BE SLEEVED AS REQUIRED BY WORKING THE REINFORCING STEEL AROUND THEM.
- 31. REINFORCING BAR LAP SPLICES AND ANCHORAGE LENGTH SHALL CONFORM WITH TABLE MINIMUM LAP SPLICE AND ANCHORAGE DIMENSION TABLE AS PROVIDED WITHIN THESE GENERAL NOTES.
- 32. MECHANICAL BAR SPLICE DEVICES THAT PROVIDE A FULL TENSION SPLICE WITH A CAPACITY IF 125 PERCENT OF THE BAR YIELD STRENGTH MAY BE USED. ALL SPLICES SHALL BE VISUALLY INSPECTED BY A QUALIFIED INSPECTOR TO VERIFY THAT THE SPLICE HAS BEEN MADE PROPERLY. 33. BONDBREAKER MATERIAL SHALL BE 30 POUND FELT PAPER.

REINFORCING BAR CLEARANCE TABLE								
LOCATION	CLEARANCE							
CONCRETE CAST AGAINST & PERMANENTLY EXPOSED TO EARTH OR MUD SLAB	3"							
VERT REINF	2"							
WALLS INTERIOR FACE	1"							
WALLS EXTERIOR FACE #5 AND SMALLER	1 1/2"							
WALLS EXTERIOR FACE #6 AND LARGER	2"							
CURBS	1 1/2"							

CONCRETE REBAR COVER CATEGORY DETERMINATION TABLE CENTER TO CENTER BAR SPACING

CONCRETE COVER, C	≥ 3d	> 3d < 4d	≥ 4d < 6d	≥ 6d	Comments
C < d	1	3	5	6	LONGITUDINAL BARS IN BEAMS, COLUMNS, INNER LAYER OF WALLS AND SLABS
d< C < 2d	1	3	3	4	ALL OTHER REINFORCING BARS
C < 2d	1	3	5	6	ALL OTHER REINFORCING BARS
d = bar diameter					

		TOP BAR LENGTH (IN.) CATEGORY							IER BAR	OTHER BAR LENGTH (IN.)						
BAR									CATEGORY							
SIZE	1	2	3	4	5	6	1	2	3	4	5	6				
3	18"	18"	18"	18"	18"	18"	16"	16"	16"	16"	16"	16"				
4	26"	24"	24"	24"	24"	24"	20"	19"	19"	19"	19"	19"				
5	40"	32"	30"	30"	30"	30"	31"	25"	23"	23"	23"	23"				
6	57"	45"	40"	36"	36"	36"	44"	35"	31"	28"	28"	28"				
7	77"	62"	54"	43"	42"	42"	59"	48"	42"	33"	33"	33"				
8	102"	81"	71"	57"	51"	48"	78"	63"	55"	44"	39"	37"				
9	129"	103"	90"	72"	64"	55"	99"	79"	69"	56"	50"	42"				
10	163"	131"	114"	92"	82"	65"	126"	101"	88"	70"	63"	50"				
11	200"	160"	140"	112"	100"	80"	154"	123"	108"	86"	77"	62"				

6

- 1. USE ADHESIVE ANCHOR SYSTEMS WHEN INDICATED IN DRAWINGS. REPORT IN ACCORDANCE WITH THE APPLICABLE CODE.
- DRILLING SHALL BE PERFORMED WITH A ROTARY HAMMER DRILL AND
- ORDER TO PRODUCE A DRY, DUST-FREE HOLE.
- MANUFACTURER'S INSTRUCTIONS ACCOMPANYING PRODUCT AND
- APPLICABLE ICC-ES REPORT. 7. SPECIAL CONDITIONS SUCH AS WATER SATURATED CONCRETE. WATER-
- APPROVED BY THE ENGINEER OF RECORD AND COMPLY WITH THE APPLICABLE ICC-ES REPORT.
- CONTAMINANTS.

8

7

PRECAST CONCRETE: 1. PRECAST CONCRETE SHALL CONCRETE INSTITUTE AND T CODES AND STANDARDS. PO

7 8

- 2. ULTIMATE COMPRESSIVE STR 5000 PSI.
- 3. PRECAST UNITS MAY BE EITH WEIGHT CONCRETE.
- 4. ALL CONCRETE USED IN THE F ENTRAINING ADMIXTURE CON BE 6% ± 1%
- 5. ALL CEMENT SHALL BE TYPE I 6. WATER REDUCING, RETARDIN
- REDUCING ADMIXTURE SHALI 7. AGGREGATES SHALL CONFO COARSE AGGREGATE SHALL
- 8. WATER SHALL BE POTABLE A HARMFUL TO CONCRETE AND OTHERWISE. WELDING OR T
- 9. REINFORCING BARS: A615 GF SHALL NOT BE PERMITTED. 10. REINFORCING BARS FOR WEL
- A706, 60 KSI YIELD STRENGTH 11. PRESTRESSING STRAND: AST STRESS RELIEVED STRAND.
- 12. WELDED WIRE FABRIC: ASTM 13. GROUT SHALL BE A MIXTURE (SUFFICIENT FOR PLACEMENT
- 14. BEARING PADS: KOROLATH M PRECAST PLANK BEARING (O
- 15. ALL STEEL FOR CONNECTION TYPE 304. STAINLESS STEEL STRENGTH AND WELDS SHA CONTINUOUS OR SPOT STRU NUT AND BOLT SHALL BE ALL
- 16. HEADED STUDS SHALL CONFO WELDED TO STEEL MEMBER
- 17. ALL CONNECTIONS SHALL BE WEATHER NOR TO VIEW FROM
- 18. MINIMUM WALL REINFORCING 19. TOLERANCES FOR THE PREC PRESTRESSED CONCRETE IN
- 20. OPENINGS FOR MECHANICAL DRILLED THROUGH HOLLOW REINFORCEMENT AS REQUIR WITH MECHANICAL AND ELEC
- 21. PRECAST MANUFACTURER SI FRAMED OPENINGS. 22. COMPLY WITH ARCHITECTUR
- SPECIAL FINISHES AND TREA 23. SUBMIT SHOP DRAWINGS ANI PROFESSIONAL ENGINEER R FOR REVIEW. SHOP DRAWIN
- MUST ACCOMPANY THE CALC 24. PRECAST UNITS SHORTER T REBAR FOR LOAD CAPACITY OPENINGS REQUIRED FOR M PRECAST MANUFACTURER S FRAMED OPENINGS AND BLC SUBMIT CALCULATIONS STAN
- STATE OF THE PROJECT ADD THAN 12" SQUARE. SEE MEC OPENING LOCATIONS AND SIZ THE PRESTRESSED CONCRE
- 25. THE PRECAST CONCRETE M PROGRAM, PRIOR TO THE ST 26. REINFORCING PATTERNS FO PROPERLY DESIGNED, SIZED
- SEE SPECIFICATIONS FOR DE 27. DESIGN CRITERIA: IN ADDITIO LOADS THE PRECAST UNITS SUPERIMPOSED LOADS: A. TOPPING SLABS - 15 PS
- B. MASONRY WALLS SE ARCHITECTURAL DRAW
- C. MECHANICAL/EQUIPME WEIGHTS WITH MECHA 28. SUPERIMPOSED DEAD AND L TOPPING THICKNESS HAS BE TAPERS (DUE TO PLANK CAM
- PRECAST CONCRETE PLANK REJECTED. 29. SEE ARCHITECTURAL, STRU DRAWINGS FOR THE VARIOU
- IMPOSED ITEMS. 30. REFER TO ARCHITECTURAL SPECIAL FINISHES OR TREAT
- 31. THE CONTRACTOR SHALL PR
- DURING THE ERECTION OF P 32. EMBEDDED PLATES SHALL B 33. THE TOP SURFACE OF PREC
- ROUGHENED TO RECEIVE BO

34. FOR BONDED TOPPING SLAB POST INSTALLED ANCHOR SYSTEM

9		10		11		12
	MAS	ONRY:			<u>LC</u>	OSE LINTELS FOR VENE
. CONFORM TO THE LATEST AMERICAN THE PRESTRESSED CONCRETE INSTITUTE CI-MNL 116 AND THE CONTRACT DOCUMENTS.	1.	MASONRY SHALL CONFO AND STANDARDS LISTED ADDITION TO ALL OTHER AND STANDARD PRACTIC)RM TO LATEST EDITIONS OF THE R) BELOW, EXCEPT AS MODIFIED HEI ₹ REQUIREMENTS OF THE CONTRA(CES:	REFERENCES REIN, IN CT DOCUMENTS	1.	THE CONTRACTOR S MASONRY OPENINGS LINTELS NOT SCHED SINGLE ANGLE WITH
RENGTH OF CONCRETE IN 28 DAYS SHALL BE		A. BUILDING CODE RE 530/ASCE 5/TMS 40	EQUIREMENTS FOR MASONRY STRU 2) AND SPECIFICATION FOR MASOF	UCTURES (ACI NRY	2	WALL THICKNESS, AN IN THE DETAIL SHEET
		B. BRICK INSTITUTE O)F AMERICA (BIA).		2.	SHALL BE GALVANIZE
NFORMING TO ASTM C260. THE AMOUNT SHALL	2	C. NATIONAL CONCRE	TE MASONRY ASSOCIATION (NCMA		3.	MASONRY BELOW BE
EI OR TYPE III. CONFORMING TO ASTM C150.	Ζ.	ASTM C90, TYPE I WITH A EACH MASONRY UNIT, NE	MINIMUM COMPRESSIVE STRENG TET CROSS SECTIONAL AREA. NET /	TH OF 2800 PSI, AREA	4.	MASONRY BELOW BE
LL CONFORM WITH ASTM C494.	3.	UNITS SHALL BE NORMAL	L WEIGHT UNITS WITH A DRY NET V	WEIGHT OF NOT	0.	THE WALL THICKNES BEAM EXCLUDING TH
BE 1".	4.	UNITS SHALL BE MANUFA	ACTURER'S STANDARD UNITS WITH	I NOMINAL FACE	6.	BOTTOM PLATES SHA WELD 3" LONG ON BO PLACEMENT OF WEL
ID EMBEDDED STEEL.	5.	PROVIDE SPECIAL SHAPE LINTELS, CORNERS, JAM	· ES WHERE SHOWN AND WHERE RE IBS, SASH, JOINTS, HEADERS, BONI	EQUIRED FOR DING AND OTHER		
ELDED APPLICATIONS SHALL CONFORM WITH	6.	MORTAR FOR ALL LOAD I ASTM C270 TYPE S UNLES	BEARING WALLS AND SHEAR WALL SS OTHERWISE NOTED, WITH A MI	.S SHALL BE NIMUM	<u>ST</u> 1.	EEL LINTEL SCHEDULE: THE CONTRACTOR SH
H. TM A416, GRADE 270, UNCOATED, 7 WIRE	7.	COMPRESSIVE STRENGT PREMIXED MASONRY CE	TH OF 2500 PSI IN 28 DAYS.			ARCHITECTURAL AND H OF OPENINGS. LINTELS
M A185.	8.	GROUT SHALL CONFORM	/ WITH ASTM C476 COARSE GROUT TE, WITH A MINIMUM COMPRESSIVE	Γ, 3/8" MAXIMUM E STRENGTH OF		SINGLE ANGLE WITH 3 THICKNESS, ANGLES S
E OF PORTLAND CEMENT, SAND, AND WATER T AND HYDRATION.	9.	2500 PSI IN 28 DAYS. DO NOT USE CALCIUM CH	HLORIDE OR ANY ADMIXTURES TH	AT CONTAINS		<u>MASONRY OPENING</u> 4'-0" OR LESS 4'-1" TO 6'-0"
MULTIMONOMER PLASTIC BEARING STRIP FOR	10.	CALCIUM CHLORIDE IN TH	HE MORTAR OR GROUT.	S THAT MATCH		6'-1" TO 7'-0" 7'-1" TO 8'-0" 8'-1" TO 10'-0"
NS SHALL BE STAINLESS STEEL ASTM A666 BOLTS SHALL BE FOUIVALENT TO A36 IN	11	THE WALL BAR SIZE AND	SPACING.		2.	10'-1" TO 12'-0" ALL LINTELS IN EXTERI
LL BE IN ACCORDANCE WITH AWS D1.1. UT TYPE INSERTS COMPLETE WITH SPRING, L STAINLESS STEEL	12.	THE FIRST COURSE OF A	ALL WALLS SHALL BE GROUTED SOI	LID.	3.	ALL ANGLE LINTELS SH BELOW BEARING END,
FORM TO ASTM A108 AND MUST BE IN END STUD	13.	PROVIDE THE FOLLOWIN UNLESS NOTED OTHERW	IG WALL CONSTRUCTION AT ALL MA	ASONRY WALLS	4.	ALL BEAM LINTELS SHA BEARING END, UNLESS
E DESIGNED SO AS NOT TO BE EXPOSED TO DM THE EXTERIOR.		A. MASONRY GROUTE OTHERWISE, CENT PRECAST BEAM, CA	ED SOLID, 32" LONG AND 16" HIGH U ERED UNDER WALL BEARING STEE AST IN PLACE CONCRETE BEAM, OF	JNLESS NOTED EL BEAM, R BOND BEAM AS	5.	BOTTOM PLATES ON BI THICKNESS, AND EXTE BEARING ENDS LINES
G SHALL BE IN ACCORDANCE WITH ACI-318.		B. CONTINUOUS MASC	DRAWINGS. ONRY GROUTED SOLID 8" HIGH, UN	IDER WALL	6.	BOTTOM PLATE SHALL
NSTITUTE SPECIFICATIONS.	14.	ALL CORES WHICH CONT	FAIN VERTICAL REINFORCING SHAL			SIDE TO SIDE.
L AND ELECTRICAL ITEMS SHALL BE CORE / CELLS ONLY, PROVIDE ADDITIONAL RED. COORDINATE LOCATIONS OF OPENINGS	15.	ALL MASONRY WALLS SH	TALL HAVE GALVANIZED HORIZONT	AL JOINT	<u>ST</u> 1.	EEL JOISTS: DETAIL, FABRICATE, <i>i</i>
SHALL PROVIDE REQUIRED HEADERS FOR ALL		A. TRUSS TYPE, #9 GA BEARING WALLS AN	AGE SIDE AND CROSS RODS, FOR IN ND PARTITIONS, SPACED 16" ON CE	NTERIOR NON- ENTER	2	LATEST SJI, AISC, AW CONTRACT DOCUME
RAL DRAWINGS FOR LOCATION EXTENT OF ATMENTS TO PRECAST CONCRETE.		B. TRUSS TYPE, 3/16"	SIDE RODS AND 3/16" CROSS RODS	S, FOR ALL	Ζ.	SPECIFICATIONS. EN MASONRY WALLS, CO SHALL BE WELDED T
ND CALCULATIONS STAMPED BY A REGISTERED IN THE STATE OF THE PROJECT NGS FOR ALL MEMBERS AND CONNECTIONS		C. LADDER TYPE, 3/16	S" SIDE RODS AND 3/16" CROSS ROE	DS, FOR ALL	3.	WELD ALL STEEL JOI
CULATIONS.		PARAPETS, SHEAR GROUTED WALLS, S	WALLS, AND VERTICALLY REINFOR SPACED 16" ON CENTER VERTICAL	RCED OR LY.	4.	ALL JOISTS SHALL HA
A COORDINATE LOCATION AND SIZE OF ALL MECHANICAL AND ELECTRICAL TRADES. SHALL PROVIDE HEADERS REQUIRED FOR	10.	BE CONTINUOUS THROU	GH EXPANSION OR CONTROL JOIN		5.	ALL "K" SERIES JOIST BEAMS OF 3" AND A M
MPED BY AN ENGINEER REGISTERED IN THE DRESSING ALL OPENING CONDITIONS GREATER	17.	CONFORMING WITH AST	M.		6.	CONCRETE OF 4". ALL "LH: SERIES JOIS
IZES.	10.	GRADE 60 KSI YIELD STR	ENGTH.	L, SHALL BE A015		STEEL BEAMS OF 5" A CONCRETE OF 6".
ETE INSTITUTE, PLANT CERTIFICATION TART OF PRODUCTION.	19.	(FACE SHELLS) WEBS, AN	ND COLLAR JOINTS, UNLESS NOTED	D OTHERWISE.	7.	WHEN THE MINIMUM DUE TO BUTTING JOI
OR ALL PLANKS, TREADS AND RISERS MUST BE D, AND SPACED BY PRECAST CONTRACTOR. ESIGN SUBMITTAL REQUIREMENTS.	20.	AMERICA, NATIONAL CON PREVIOUSLY MENTIONEE MASONRY CONSTRUCTIO	NCRETE, MASONRY ASSOCIATION A D CODES AND SPECIFICATIONS FOR ON.	AND THE R HOT WEATHER	8.	EXTEND ALL JOISTS 2 MEMBER. WHEN THE SUPPORTING MEMBE
ION TO THE OVERALL BUILDING DESIGN LIVE MUST INCLUDE THE FOLLOWING	21.	PROTECT ALL MASONRY DEGREES FAHRENHEIT A	FROM FREEZING WHEN TEMPERA AND FALLING, COMPLY WITH THE	TURE IS 40	9.	THE JOIST PANEL PO WITH EACH OTHER W
SF		CONCRETE MASONRY AS CODES AND SPECIFICATI	SSOCIATION AND THE PREVIOUSLY	A, NATIONAL MENTIONED IRY	10.	JOISTS SHALL BE ERI MEASURED AT THE C
E PLAN AND COORD. WALL LOCATIONS WITH VINGS	22.	DO NOT USE FROZEN MA	ATERIALS OR MATERIALS MIXED OR	R COATED WITH	11. 12	NO LOADS SHALL BE
ENT - SEE PLAN AND COORD. EQUIPMENT ANICAL DRAWINGS	23.	DO NOT BUILD ON FROZE	EN WORK, REMOVE AND REPLACE	MASONRY WORK	13	ATTACHED WITHIN 6"
LIVE LOADS ARE AS SHOWN ON PLANS. EEN SET TO 2" PLANK END BEARING. TOPPING	24.	TEMPORARILY BRACE AL	FREEZING. _L MASONRY WALLS TO PROVIDE S			MEETING FEDERAL S PER MANUFACTUREF
WEER) TO A MINIMUM OF 1" AT MIDSPAN. (WITH CAMBER GREATER THAN 1" WILL BE	25.	CONSTRUCTION UNTIL IN CAN STABILIZE THE WALL	HE DESIGNED STRUCTURE IS COM LS. JOINT STRIPS: SOLID RUBBER STRI	IPS WITH A	14.	WHERE COLUMN ARE STRUCTURAL STEEL EXTENDED SHALL BE PROVIDE LATERAL S
CTURAL, HVAC, PLUMBING & FIRE PROTECTION JS LAYOUTS AND LOCATIONS OF SPECIFIC		SHORE "A" DUROMETER SASH BLOCK AND MAINT,	HARDNESS OF 80. DESIGNED TO FI AIN LATERAL STABILITY IN MASONF	IT STANDARD RY WALL.	15	ALL STEEL JOISTS SH AREAS WHERE CEILI
DRAWINGS FOR LOCATION AND EXTENT OF IMENTS TO EXPOSED PRECAST CONCRETE.	26.	NO CHASES, RISERS, CO OCCUR WITHIN 17" ON CE CONCENTRATION.	INDUITS, OR TOOTHING OF MASONE ENTERLINE OF BEAM BEARING OR I	RY SHALL LOAD	16.	NET UPLIFT = SEE CC GENERAL NOTES. AD
ROVIDE TEMPORARY BRACING, AS REQUIRED, PRECAST UNITS.	27.	ALL INTERSECTING LOAD MASONRY BOND UNLESS) BEARING WALLS SHALL BE TIED T 3 NOTED OTHERWISE.	OGETHER IN	17	A I EACH END OF JOI
BE GALVANIZED ASTM A123 (UNO) CAST PLANKS SHALL BE INTENTIONALLY ONDED TOPPING.	28.	ALL INTERIOR NON-BEAR AT 96" OC THE MAX HEIG A. 6" CMU MAX HEIGH B. 8" CMU MAX HEIGH	RING MASONRY WALLS TO BE REINF HT LIMITS ARE AS FOLLOWS: IT = 14'-0" IT = 18'-0"	FORCED WITH #5		MEMBERS. PROVIDE TO ACHIEVE FULL JO
3 CAST IN PLACE SEE CONCRETE NOTES.		C. 10" CMU MAX HEIGH D. 12" CMU MAX HEIGH	HT = 20'-0" HT = 24'-0"		ST	EEL DECK:
					<u><u> </u></u>	

S	:	

. ADHESIVE ANCHOR SYSTEMS MUST COMPLY WITH THE LATEST REVISION OF ICC-ES ACCEPTANCE CRITERIA AC308 AND HAVE A VALID ICC-ES

CARBIDE TIPPED DRILL BIT IN ACCORDANCE WITH INSTRUCTIONS ACCOMPANYING ADHESIVE CARTRIDGES AND APPLICABLE ICC-ESR. 4. BORE HOLE CLEANING PROCEDURES MUST COMPLY WITH INSTRUCTIONS ACCOMPANYING THE ADHESIVE CARTRIDGE AND APPLICABLE ICC-ESR IN 5. INJECTION OF ADHESIVE SHALL BE PERFORMED IN ACCORDANCE WITH

APPLICABLE ICC-ESR TO PRODUCE AN AIR-VOID FREE INJECTION. 6. ALTERNATE DRILLING METHODS, SUCH AS DIAMOND CORING, MUST BE APPROVED BY THE ENGINEER OF RECORD AND COMPLY WITH THE

FILLER HOLES, UNDERWATER AND OVERHEAD INSTALLATIONS MUST BE

8. SPECIAL INSPECTION SHALL BE PROVIDED IN ACCORDANCE WITH THE ICC-ES REPORT AND AS PRESCRIBED BY THE APPLICABLE BUILDING CODE. 9. FASTENING ELEMENTS (THREADED RODS, REBAR AND INTERNALLY THREADED INSERTS) MUST BE CLEAN, DRY AND FREE OF ANY OIL OR

MASONRY REBAR LAP AND SPLICE LENGTH TABLE f'm = 2500 PSI , Fy=60 KSI REINF, NON-COATED REBAR **CENTERED IN CELL** EA. FACE OF CELL BAR SIZE 10" CMU 10" CMU 12" CMU 8" CMU 12" CMU 8" CMU 29" 29" 29" 45" 45" #6 5/"

- DETAIL, FABRICATE LATEST STEEL DECH DOCUMENTS. DECK AS ADOPTED BY THE ROOF DECK PROFILE REQUIREMENTS. ROOF DECK SHALL ASTM A611 GRADE C COMPOSITE FLOOR I CONFORMING TO AS
- COMPOSITE FLOOR I A924-94, CLASS G-90. 6. ROOF DECK SHALL I
- ROOF DECK SHALL MEMBERS WITH A 36 FASTENERS] WITH TO THE SUPPORTS. TAPPING SCREWS.
- COMPOSITE FLOOR I STRUCTURAL STEEL POWDER ACTUATED SHEET ATTACHED TO (3) #10 SELF TAPPING
- 9. DECK SHALL INCLUD STOPS, DRAIN SUMP REQUIRED TO MAKE GALVANIZED G90. 10. NO LOADS SHALL BE
- 11. ALL DECK LIGHTER T CONNECTION OF DEC 12. PLACE DECK UNITS C SPAN 4 OR MORE SU
- THAN 2". SIDE LAP IN CONTRACTED. DECK 13. MAXIMUM SIZE OF O
- SUPPORT SHALL NOT HAVE STRUCTURAL 14. FOR SLOPING DECK
- ACHIEVE FULL DECK 15. DECK SHALL HAVE T
- 1-1/2" x 20GA (TYPE V S = 0.218 I = 0
- S = 0.234 I = 0 3" x 20GA (TYPE NA)

12		13		14		PROJECT	NO 3-1
THE CONTRACTOR SHAL MASONRY OPENINGS AN LINTELS NOT SCHEDULE SINGLE ANGLE WITH 3 1/2 WALL THICKNESS, ANGLE IN THE DETAIL SHEETS. ALL LINTELS EXPOSED TO SHALL BE GALVANIZED. ALL BEAM LINTELS SHALL MASONRY BELOW BEAR! ALL ANGLE LINTELS SHALL MASONRY BELOW BEAR! BOTTOM PLATES ON BEA THE WALL THICKNESS AN BEAM EXCLUDING THE B BOTTOM PLATES SHALL I WELD 3" LONG ON BOTH PLACEMENT OF WELDS F LINTEL SCHEDULE: THE CONTRACTOR SHALL I WELD 3" LONG ON BOTH PLACEMENT OF WELDS F CONTRACTOR SHALL I MASONRY OPENINGS AND RCHITECTURAL AND HVA OF OPENINGS. LINTELS NC SINGLE ANGLE WITH 3 1/2" HICKNESS, ANGLES SHAL MASONRY OPENING '-0" OR LESS '-1" TO 6-0" '-1" TO 10'0" O'-1" TO 12'-0" ALL LINTELS IN EXTERIOR V ALL ANGLE LINTELS SHALL FARING END, UNLESS NO CONTOM PLATES ON BEAM HICKNESS, AND EXTERIOR V ALL ANGLE LINTELS SHALL FEARING END, UNLESS NO COTTOM PLATES ON BEAM HICKNESS, AND EXTERIOR V ALL ANGLE LINTELS SHALL FEARING END, UNLESS NO COTTOM PLATES ON BEAM HICKNESS, AND EXTERIOR V ALL ANGLE LINTELS SHALL F FEARING END, UNLESS NO COTTOM PLATES ON BEAM HICKNESS, AND EXTEND I FEARING ENDS, UNLESS NO COTTOM PLATES ON BEAM HICKNESS AND EXTEND I FEARING ENDS, UNLESS NO COTTOM PLATES ON BEAM HICKNESS AND EXTEND I FEARING ENDS, UNLESS NO COTTOM PLATES ON BEAM HICKNESS AND EXTEND I FEARING ENDS, UNLESS NO COTTOM PLATES ON BEAM HICKNESS AND EXTEND I FEARING ENDS, UNLESS NO COTTOM PLATES ON BEAM	2: L SUPPLY LOOSE LINTI ID RECESSES UNLESS D ON DRAWINGS SHAL 2" LEGS HORIZONTAL F ES SHALL BE AS SHOW O THE EXTERIOR OR IN L HAVE 24"x 3 COURSE ING END, UNLESS NOTI LL HAVE 16"x 3 COURSE ING END, UNLESS NOTI MS SHALL BR 1/2" LES ND EXTEND FOR THE F EARING ENDS UNLESS BE WELDED TO BEAM VI SIDES @ 8" ON CENTE FROM SIDE TO SIDE. SUPPLY LOOSE LINTEL RECESSES UNLESS NO C DRAWINGS FOR LOO OT SCHEDULED ON DRA LEG HORIZONTAL FOR L BE AS FOLLOWS: <u>ANGLE SIZE</u> 3 1/2 x 3 1/2 x 5/16 4 x 3 1/2 x 5/16 5 x 3 1/2 x 3/8 6 x 3 1/2 x 5/16 W8x28 w/ 5/16" BOTT. P W16x26 w/ 5/16" BOTT. P W16x26 w/ 5/16" BOTT. WALLS SHALL BE HOT I . HAVE 16" x 3 COURSES TED OTHER WISE. IS SHALL BE 1" LESS IN FOR THE FULL LENGTH OTED OTHER WISE. WELDED TO BEAM WIT 3" ON CENTER. STAGGE A STALL BE 1" LESS IN FOR THE FULL LENGTH OTED OTHER WISE. WELDED TO BEAM WIT 3" ON CENTER. STAGGE	EL ANGLES OVER ALL NOTED OTHERWISE. L CONSIST OF A OR EACH 4" OF N IN THE SCHEDULE EXTERIOR WALLS S OF SOLID ED OTHERWISE. S OF SOLID ED OTHERWISE. S IN WIDTH THAN JUL LENGTH OF NOTED OTHERWISE. WITH A 1/4" FILLET R, STAGGER ANGLES OVER ALL DTED OTHERWISE. REFER T ATION, NUMBER AND SIZES WINGS SHALL CONSIST OF EACH 4" OF WALL BEARING EACH END 6" L1 6" L2 8" L3 8" L4 LATE 12" L5 PLATE 12" L6 DIP GALVANIZED. S OF SOLID MASONRY SE. OF SOLID MASONRY BELOW WIDTH THAN THE WALL OF BEAM INCLUDING THE H A 1/4" FILLET WELD 3" ER PLACEMENT OF WELDS	Ο Α Ω		ARCHITECTURAL VISION GROUP. LTD	ARC HITECTS O PLANNERS	23850 SPERRY DRIVE CLEVELAND, OHIO 44145
CONTRACT DOCUMENTS PROVIDE BRIDGING IN AG SPECIFICATIONS. END OF MASONRY WALLS, CONC SHALL BE WELDED TO JO STRUCTURAL INTEGRITY WELD ALL STEEL JOISTS AS SHOWN ON THE DRAV ALL JOISTS SHALL HAVE WITH SJI STANDARD SPE ALL "K" SERIES JOISTS SI BEAMS OF 3" AND A MINII CONCRETE OF 4". ALL "LH: SERIES JOISTS SI STEEL BEAMS OF 5" AND CONCRETE OF 6". WHEN THE MINIMUM BEA DUE TO BUTTING JOISTS EXTEND ALL JOISTS 2" M MEMBER. WHEN THERE A SUPPORTING MEMBER, U THE JOIST PANEL POINTS WITH EACH OTHER WITH JOISTS SHALL BE ERECT MEASURED AT THE CENT	CORDANCE WITH THE F BRIDGING LINES SHA RETE WALLS, OR STEE DISTS IN SUCH A MANN OF THE JOISTS. TO SUPPORTING STRU WINGS, AND ACCORDIN STANDARD MINIMUM O CIFICATIONS. HALL HAVE A MINIMUM MUM BEARING LENGTH SHALL HAVE A MINIMUM A CAPS BEARING LENGTH ARING LENGTH OF THE , THE JOISTS SHALL BE INIMUM PAST CENTERI ARE JOISTS ON ONLY O JNO S FOR THE FULL WIDTH IN A TOLERANCE OF 1' ED STRAIGHT. SWEEPS FER.	LATEST SJI L BE ANCHORED TO L BEAMS. ALL BRIDGING ER AS TO NOT IMPAIR THE JCTURAL STEEL MEMBERS IG TO SJI AS MINIMUM. AMBER IN ACCORDANCE BEARING LENGTH ON STEE ON MASONRY OR 4 BEARING LENGTH ON STH ON MASONRY OR JOIST CANNOT BE ACHIEVE STAGGERED. INE OF THE SUPPORTING OF EACH BAY MUST LINE U ±. S SHALL BE A MAXIMUM OF 7 RIDGING.	L D IP 1"		PROFESSIONAL SEAL:	MICHAE LINDAV PE.82	F OAN SIDEL G. WAN 391 ERED INVITU
ANY LOADS SUPPORTED ATTACHED WITHIN 6" OF STEEL JOISTS SHALL BE MEETING FEDERAL SPEC PER MANUFACTURER'S S WHERE COLUMN ARE NO STRUCTURAL STEEL MEN EXTENDED SHALL BE FIE PROVIDE LATERAL STABI ALL STEEL JOISTS SHALL AREAS WHERE CEILINGS NET UPLIFT = SEE COMP	FROM THE JOIST BOT A PANEL POINT (SUCH PRIME PAINTED WITH I DIFICATION TT-P-636. PA STANDARDS. OT FRAMED IN AT LEAS MBERS, A BAR JOIST W LD BOLTED TOP AND E ILITY. HAVE A CEILING EXTE ARE HUNG OR DIRECT ONENTS AND CLADDIN	TOM CHORD MUST BE AS SPRINKLER HANGERS). RUST INHIBITIVE PAINT INT DRY FILM THICKNESS T TWO DIRECTIONS WITH ITH BOTTOM CHORD OTTOM TO COLUMNS TO NSION PROVIDED IN THE LY ATTACHED TO THE JOIST G TABLE OF THESE	Т.		F :LNU (216) 861-3 (216) 861-3	OSBC Perior Avenue - Suite 300 2020	DE DE DE SENS Cleveland, OH 44114 www.osborn-eng.com
GENERAL NOTES. ADD BA AT EACH END OF JOISTS PROVIDE FULL BEARING MEMBERS. PROVIDE SHII TO ACHIEVE FULL JOIST DACHIEVE FULL JOIST DETAIL, FABRICATE AND LATEST STEEL DECK INS DOCUMENTS. DECK SHA AS ADOPTED BY THE STE ROOF DECK PROFILE SH REQUIREMENTS. ROOF DECK SHALL BE M ASTM A611 GRADE C, D C COMPOSITE FLOOR DEC CONFORMING TO ASTM / COMPOSITE FLOOR DEC CONFORMING TO ASTM / COMPOSITE FLOOR DEC A924-94, CLASS G-90. ROOF DECK SHALL BE G/ ROOF DECK SHALL BE G/ ROOF DECK SHALL BE G/ ROOF DECK SHALL BE G/ STRUCTURAL STEEL MEN POWDER ACTUATED FAS SHEET ATTACHED TO TH (3) #10 SELF TAPPING SC DECK SHALL INCLUDE AN STOPS, DRAIN SUMP PAN REQUIRED TO MAKE A CO GALVANIZED G90. NO LOADS SHALL BE HUN ALL DECK LIGHTER THAN	OTTOM CHORD BRIDGI UNDER JOIST SEATS F MS OR BEARING SEAT BEARING. ERECT STEEL DECK IN TITUTE SPECIFICATION LL CONFORM TO "BASI EEL DECK INSTITUTE. ALL CONFORM TO FAC ANUFACTURED FROM DR E, GR 33 OR HIGHEF K SHALL BE MANUFAC A653-94, GR 33 OR HIGHEF K SHALL BE MANUFAC A653-94, GR 33 OR HIGHEF K SHALL BE MANUFAC A653-94, GR 33 OR HIGHEF K SHALL BE MANUFAC ALVANIZED AND SHOP ONNECTED TO SUPPOI ATTERN WITH [HILTI X-F IRST AND LAST RIBS O ELAPS SHALL BE SCREV K SHALL BE CONNECTI MBERS WITH 36/4 PATT STENERS] WITH THE FII IE SUPPORTS. SIDELAF REWS. NY MISCELLANEOUS CL NS, REINFORCING ARO OMPLETE JOB. MISCEL NG FROM THE ROOF DI	NG AT FIRST PANEL POINT OR SLOPPING SUPPORT JNDER JOIST, AS REQUIRED ACCORDANCE WITH THE S, AWS AND CONTRACT C DESIGN SPECIFICATIONS" TORY MUTUAL STEEL CONFORMING TO C. URED FROM STEEL IER. CONFORM TO ASTM PRIMED. RTING STRUCTURAL STEEL ISN24 POWDER ACTUATED F EACH SHEET ATTACHED VED WITH (3) #10 SELF ED TO SUPPORTING ERN WITH [HILTI X-HSN24 RST AND LAST RIBS OF EACH S SHALL BE SCREWED WITH OSURE PIECES, POUR JND OPENINGS, ETC., LANEOUS ITEMS SHALL BE ECK.	D, T		D MASSILLON CITY SCHOOL	MASSILLON WEST ELEMENTARY	250 29TH STREET NW, MASSILLON, OHIO 44646 MASSILLON CITY SCHOOL DISTRICT MASSILLON, OHIO
ALL DECK LIGHTER THAN CONNECTION OF DECK T PLACE DECK UNITS ON S SPAN 4 OR MORE SUPPO THAN 2". SIDE LAP INTER CONTRACTED. DECK SH/ MAXIMUM SIZE OF OPENI SUPPORT SHALL NOT EX HAVE STRUCTURAL SUPI FOR SLOPING DECK PRO ACHIEVE FULL DECK BEA DECK SHALL HAVE THE F 1-1/2" x 20GA (TYPE VLI) C S = 0.218 I = 0.182 1-1/2" x 20GA (TYPE B,BA S = 0.234 I = 0.201 3" x 20GA (TYPE NA) S = 0.501 I = 0.848	O STEEL SUPPORT. SUPPORTING STEEL FR ORTS (3 SPANS). LAP EN LOCKS SHALL NOT BE ALL BEAR A MINIMUM C INGS IN DECK WITHOU CEED 10". OPENINGS (PORT ON ALL SIDES OF OVIDE CONTINUOUS SH ARING ON SUPPORTING FOLLOWING MINIMUM F COMPOSITE FLOOR DEC) ROOF DECK	AMEWORK IN LENGTHS TO IDS OF DECK NOT LESS STRETCHED OR F 3" ON SUPPORTS. T STRUCTURAL FRAMING GREATER THAN 10" MUST THE OPENING. IMS, AS REQUIRED TO MEMBERS. ROPERTIES.			B PROJECT DRAWN CHECKEI DATE	- NO 2203-1 BY OEC D BY OEC	7.12.23 100% BID PERMIT SET MARK DATE ISSUED AS:
					A SCALE: /	IERAL I As indicated SHEET N	NOTES

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