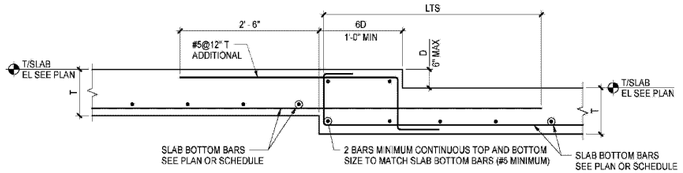
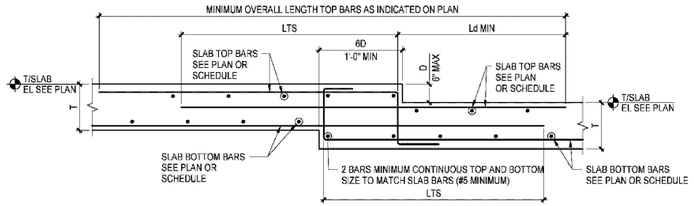


D LESS THAN T MINUS 2 INCHES
BOTTOM BARS INTERRUPTED BY STEP



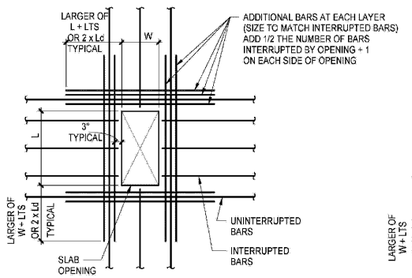
D LESS THAN T MINUS 2 INCHES
TOP AND BOTTOM BARS INTERRUPTED BY STEP

1 TYPICAL STEP IN SLAB DETAILS

NOT TO SCALE

NOTES:

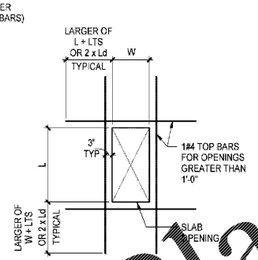
1. REFER TO PLANS FOR ADDITIONAL BARS AROUND OPENINGS
2. SEE STRUCTURAL DRAWINGS FOR QUANTITY AND LOCATIONS OF OPENINGS. CONTRACTOR SHALL VERIFY SIZE AND LOCATION OF ALL OPENINGS WITH MEP DRAWINGS NOTIFY STRUCTURAL ENGINEER IN WRITING OF ANY DISCREPANCIES FOR REVIEW AND APPROVAL
3. FOR TWO-WAY SLAB SEE TYPICAL TWO-WAY SLAB OPENING LIMITATIONS. FOR OPENING NOT MEETING LIMITATIONS OR GREATER THAN 3 FEET, SUBMIT OPENINGS TO SER FOR APPROVAL
4. FOR ONE-WAY SLABS WHERE THE OPENING DIMENSION PERPENDICULAR TO THE DIRECTION OF THE SPAN IS GREATER THAN 2 FEET, SUBMIT OPENINGS TO SER FOR APPROVAL
5. WHERE ADJACENT OPENINGS ARE NOT SEPARATED BY 2X THE LARGEST OPENING DIMENSION OR WOULD INTERRUPT THE ADDITIONAL REINFORCEMENT FROM THE ADJACENT OPENING, SUBMIT OPENINGS TO SER FOR APPROVAL



ADDITIONAL BARS WHERE BARS ARE INTERRUPTED

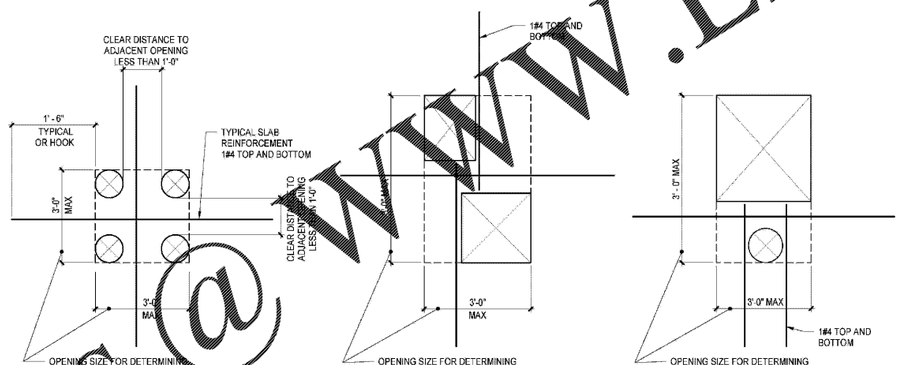
NOTES: ADDITIONAL BARS

1. PROVIDE ADDITIONAL BARS ON EACH SIDE OF OPENING FOR TOP AND BOTTOM BARS THAT ARE INTERRUPTED BY OPENINGS DISTRIBUTE REPLACEMENT BARS EQUALLY TO BOTH SIDES OF OPENING AT 3" SPACING
2. PROVIDE A MINIMUM OF 2 BARS EACH SIDE OF OPENING TOP AND BOTTOM WHERE NO TOP BARS ARE PRESENT, PROVIDE ADDITIONAL TOP BARS SHOWN ABOVE
3. AT CLUSTERED OPENINGS, PROVIDE THESE ADDITIONAL BARS AROUND THE CLUSTER PLUS THE ADDITIONAL BARS SHOWN IN THE CLUSTERED OPENING DETAIL



ADDITIONAL TOP BARS WHERE NO TOP BARS ARE PRESENT

ADDITIONAL TOP BARS	
OPENING SIZE (LARGER DIMENSION OF OPENING)	TOP BARS ALL SIDES
0 - 12"	NONE
12" - 36"	(1) #4



TYPE 1

TYPE 2
SEE TYPE 1 FOR INFORMATION NOT SHOWN

TYPE 3
SEE TYPE 1 FOR INFORMATION NOT SHOWN

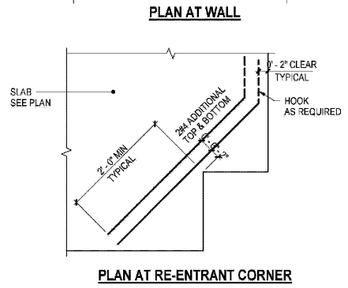
CLUSTERED OPENING ADDITIONAL REINFORCEMENT

NOTES: CLUSTERED OPENINGS

1. THE REINFORCEMENT REQUIREMENTS AT CLUSTERED OPENINGS ARE IN ADDITION TO THE TYPICAL SLAB OPENING DETAIL REQUIREMENTS AROUND THE ENTIRE CLUSTER
2. FOR ONE-WAY SLABS, WHEN CLUSTERED OPENING IS GREATER THAN 2 FEET, SUBMIT TO SER FOR APPROVAL.
3. FOR TWO-WAY SLABS, WHEN CLUSTERED OPENING DOES NOT MEET TWO-WAY SLAB OPENING LIMITATIONS OR IS GREATER THAN 3 FEET, SUBMIT TO SER FOR APPROVAL

2 TYPICAL SLAB OPENING DETAILS

NOT TO SCALE

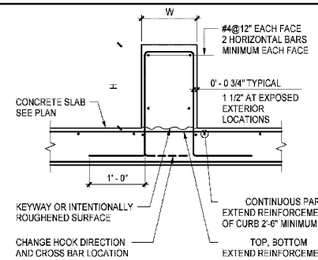


PLAN AT WALL

PLAN AT RE-ENTRANT CORNER

3 TYPICAL CORNER SLAB DETAILS

NOT TO SCALE



CURB WIDTH 8" OR MORE

NOTES:

1. FOR SIZE AND LOCATION SEE ARCH, MEP, OR STRUCTURAL DRAWINGS
2. ROUGHEN SURFACE OF SLAB TO 1/4" AMPLITUDE CLEAN THOROUGHLY AND APPLY BONDING AGENT IMMEDIATELY BEFORE CASTING CURB
3. THIS DETAIL IS APPLICABLE TO CURBS SUPPORTING EXTERIOR WALLS. SEE ADDITIONAL DETAILS FOR CURTAIN WALL SUPPORT. SEE ARCH DRAWINGS FOR EMBEDDED PLATES AND BLOCKOUTS
4. SEE ARCH DRAWINGS FOR EMBEDDED PLATES AND BLOCKOUTS. REPLACE REINFORCEMENT INTERRUPTED BY BLOCKOUTS
5. AT CONTRACTORS OPTION DRILLED-IN DOWELS WITH ADHESIVE ANCHORS MAY BE PERMITTED BAR SIZE AND SPACING MAY CHANGE DEPENDING ON EMBEDMENT REQUIRED CONTRACTOR TO VERIFY WITH SER

CURB DIMENSION AND REINFORCEMENT SCHEDULE			
W	H	X@Y"	Z"
8"	2'-4"	#4@12"	-
8"	0'-4"	#4@12"	-

4 TYPICAL CURB DETAILS (AT EXTERIOR)

NOT TO SCALE

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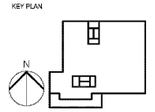
KEY PLAN



REVISION NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
22808.001
DATE
05/22/2020
ISSUE
PERMIT SET

SHEET TITLE
TYPICAL CONCRETE SLAB DETAILS

S4.04

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