STRUCTURAL NOTES

SOIL PRESSURE : ASSUMED AT 2000 PSF.

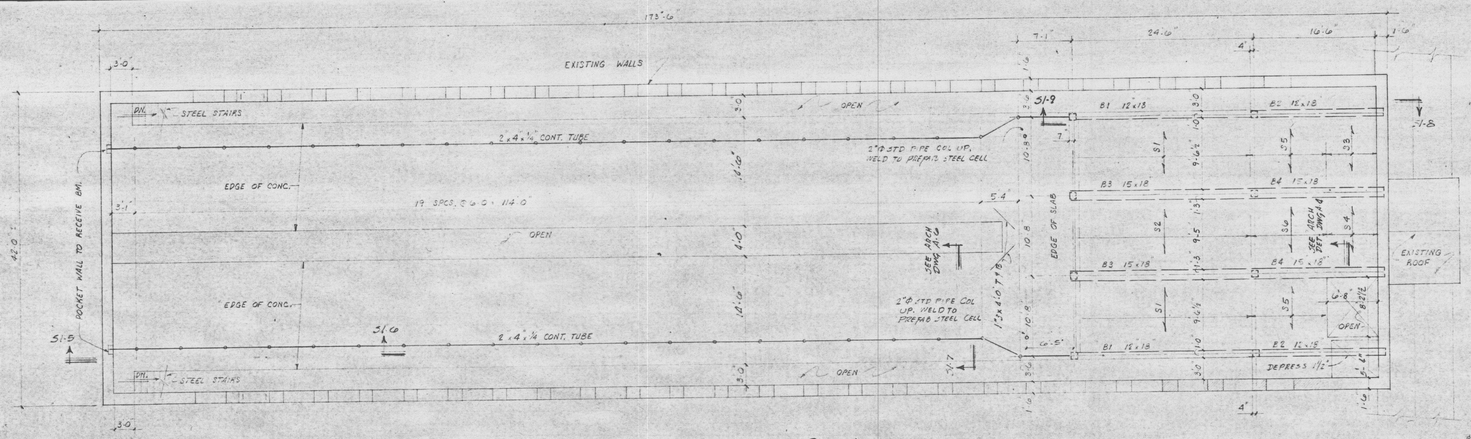
LIVE LOAD : CELL BLOCKS 40 PSF; INMATE AND OFFICER'S CORRIDORS 40 PSF; STORAGE AND RECREATION AREA AND STAIRS 100 PSF. NEW CEILING LOAD ON EXISTING TRUSSES 7 PSF.

CONCRETE : PRESCRIPTION CONCRETE D.C. CODE MAX. SLUMP 5" f'c = 3000 psi.

REINFORCING STEEL: ASTM A-615 GRADE 60 (TIES & STIRRUPS GRADE 40) W.W.M. A-185.

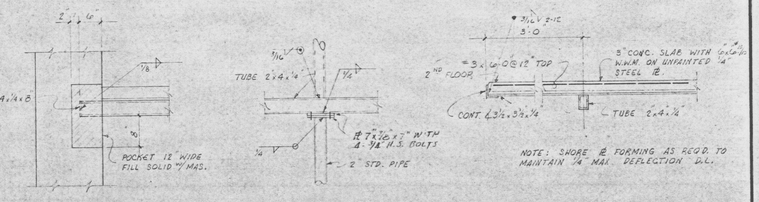
STRUCTURAL STEEL: AISC SPECS AND D.C. BUILDING CODE ASTM A-36. WELDING PER D.C. CODE AND AWS STANDARDS.

COMPACTED FILL: SELECTED MATERIAL PLACED AND COMPACTED IN ACCORDANCE WITH AASHO T-99.



SECOND FLOOR FRAMING PLAN 1/4"=1'-0"

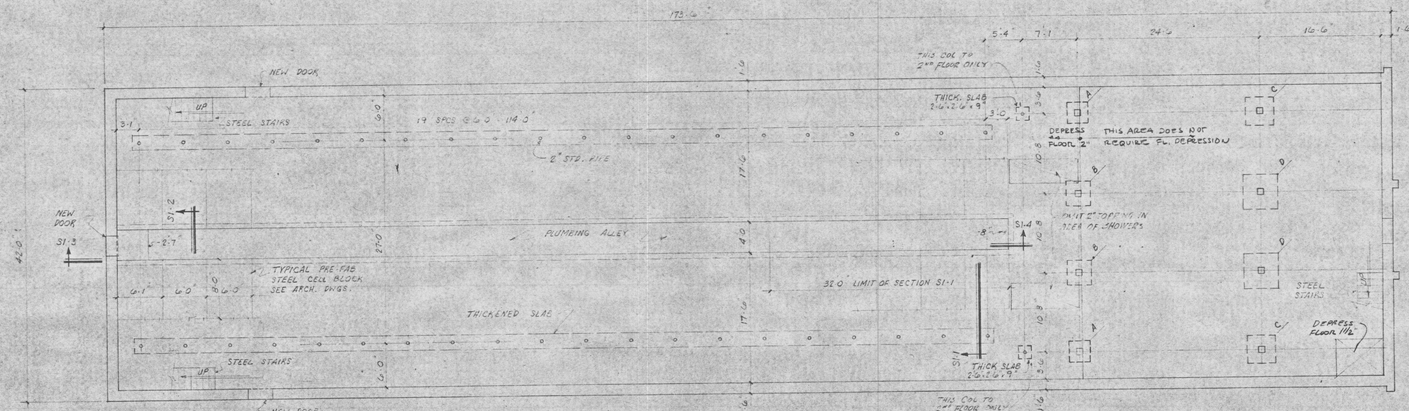
1. FLOOR SLAB TO BE 3" CONC. OVER 1/4" R OF PREFAB CELL UNITS UNLESS NOTED.



SECTION S1-5 3/4"=1'-0"

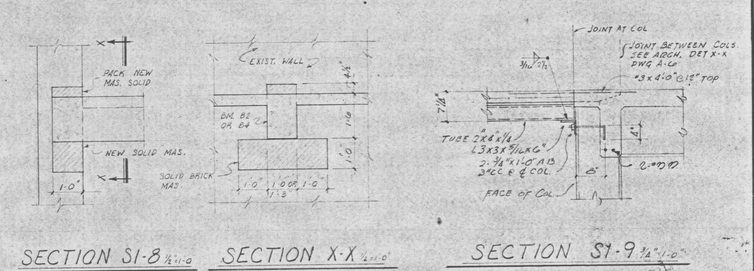
SECTION S1-6 3/4"=1'-0"

SECTION S1-7 3/4"=1'-0"



FOUNDATION & FLOOR PLAN 1/4"=1'-0"

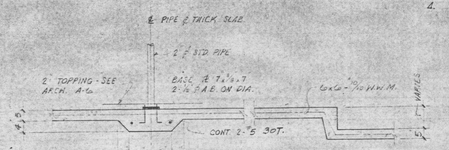
1. FLOOR SLAB TO BE 5" CONC. W/ 6x6 - 4/0 W.W.M. OVER 5" GRAVEL.
2. PROVIDE 2" TOPPING OVER STRUCTURAL SLAB W/ 2x2 #16 W.W.M.
3. DEPTH OF TRENCH GIVEN BELOW TOP OF TOPPING.
4. ALL EXISTING FLOOR SLAB TO BE REMOVED



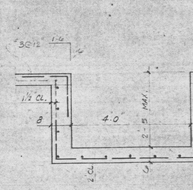
SECTION S1-8 1/2"=1'-0"

SECTION X-X 1/2"=1'-0"

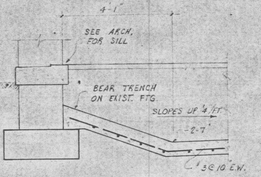
SECTION S1-9 3/4"=1'-0"



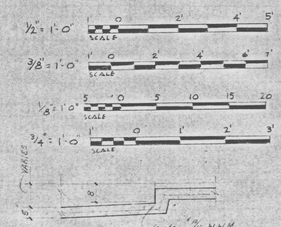
SECTION S1-1 1/2"=1'-0"



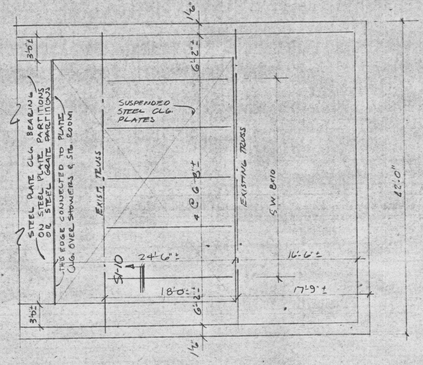
SECTION S1-2 1/2"=1'-0"



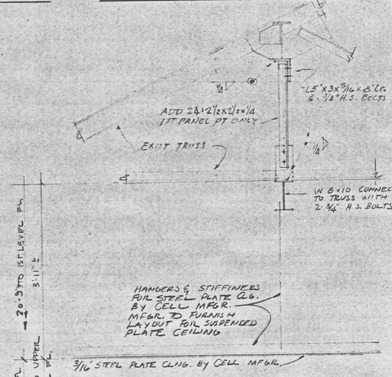
SECTION S1-3 1/2"=1'-0"



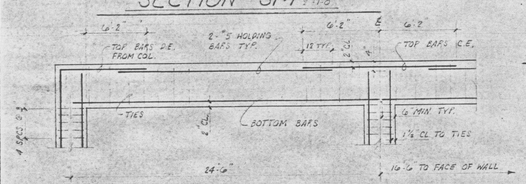
SECTION S1-4 1/2"=1'-0"



PLAN OF CEILING FRAMING 1/8"=1'-0"



SECTION S1-10 3/4"=1'-0"

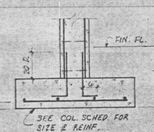


BEAM SCHEDULE

MARK	SIZE W	SIZE D	REINFORCING BOTTOM	REINFORCING TOP D.E.	REINFORCING TOP C.E.	#3 TIES	REMARKS
B1	12	18	2-#7	2-#7	2-#8	6@4@8	TOP BARS DE FROM COL.
B2	12	18	2-#6	2-#6	—	6@4@8	
B3	15	18	2-#9	2-#9	2-#9, 1-#8	6@284, 2@6@468, 6@483, 4@5@693	TOP BARS DE FROM COL.
B4	15	18	2-#7	2-#6	—	6@488, 6@284@468	

COLUMN SCHEDULE

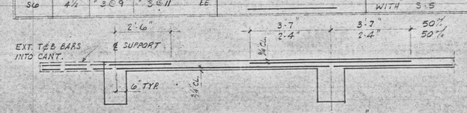
	COL.	A	B	C	D
COLUMN	LOAD	24" 12	11" 30	37" 21	13" 45
	SIZE	12" x 12"	12" x 12"	12" x 12"	12" x 12"
	REINF.	4-#7	4-#6	4-#9	4-#6
	TIES	#3 @ 12"	#3 @ 12"	#3 @ 12"	#3 @ 12"
FOOTING	SIZE	3'-0" x 3'-0"	4'-6" x 4'-6"	3'-6" x 3'-6"	5'-0" x 5'-0"
	DEPTH	12"	12"	12"	12"
	REINF. EW	3-#4	5-#4	4-#4	6-#5



COL. FTG. DETAIL 1/2"=1'-0"

SLAB SCHEDULE

MARK	DEPTH	REINFORCING BOTTOM	REINFORCING TOP	REINFORCING END	DETAIL	REMARKS
S1	4 1/2	#3 @ 8	#3 @ 10	DE		
S2	4 1/2	#3 @ 9	#3 @ 7	EE		
S3	4 1/2	#3 @ 8	#3 @ 10	FL	CANT.	ALT. TOP BARS WITH S-4
S4	4 1/2	#3 @ 8	#3 @ 10	EE		Do. WITH S-3
S5	4 1/2	#3 @ 8	#3 @ 11	FL	CANT.	Do. WITH S-6
S6	4 1/2	#3 @ 9	#3 @ 11	EE		Do. WITH S-5



SLAB DETAIL 3/4"=1'-0"

AS-BUILT JUN 1 1977

DESIGNED
DRAWN
CHECKED

CERTIFICATION
STRUCTURAL PLANS CERTIFIED AS PROVIDED IN SECTIONS 3-159 (a) AND (b) OF THE 1961 D.C. BUILDING CODE.

ASSISTANT DIRECTOR FOR BUREAU OF DESIGN AND ENGINEERING
DATE

REGISTRATION NO. 3704
DATE 4/12/71
ARCHITECT
DATE

REVISION	DATE	DESCRIPTION	BY	APP.

PROJECT DRAWINGS

PLANS & DETAILS

INSTALLATION OF CELLS - BUILDING P-5
LORTON REFORMATORY - LORTON, VIRGINIA
DEPARTMENT OF CORRECTIONS

NELSON, TILGHMAN ASSOCIATES · ARCHITECTS
815 THAYER AVENUE · SILVER SPRING, MARYLAND · 20910

GOVERNMENT OF THE DISTRICT OF COLUMBIA
DEPARTMENT OF GENERAL SERVICES

DRAWING NO. S-1

PROJECT NO. Z2-1115-70
DATE APRIL 12, 1971
SHEET 7 OF 10

7