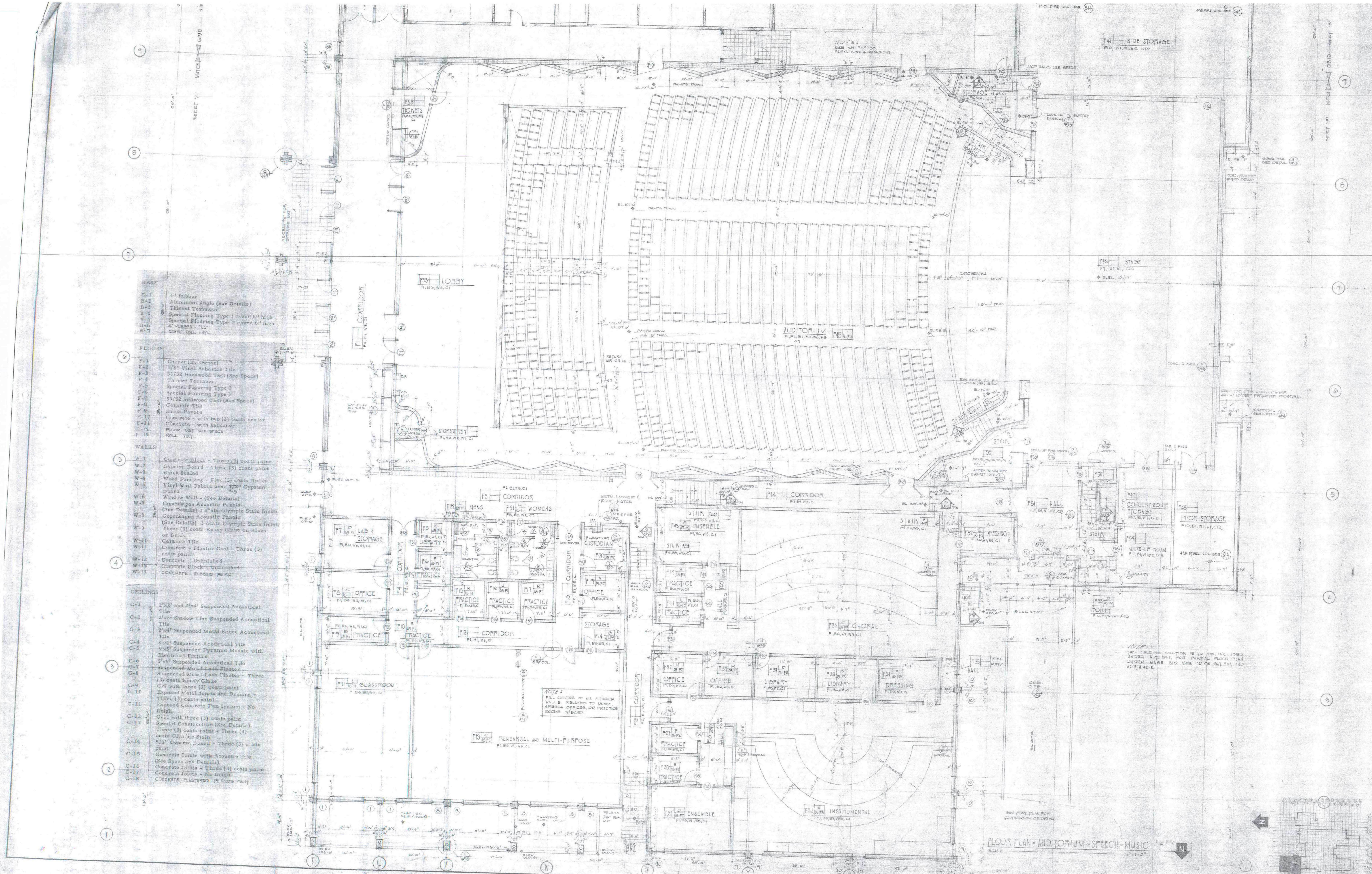

BASE	
B-1	4" Rubber
B-2	Aluminum Angle (See Details)
B-3	Thinset Terrazzo
B-4	Special Flooring Type I coved 6" high
B-5	Special Flooring Type II coved 6" high
B-6	4" RUBBER - FLAT
B-7	COVED ROLL VINYL

FLOORS	
F-1	Carpet (By Owner)
F-2	1/8" Vinyl Asbestos Tile
F-3	33/32 Hardwood T&G (See Specs)
F-4	Thinset Terrazzo
F-5	Special Flooring Type I
F-6	Special Flooring Type II
F-7	33/32 Softwood T&G (See Specs)
F-8	Ceramic Tile
F-9	Brick Pavers
F-10	Concrete - with two (2) coats sealer
F-11	Concrete - with hardener
F-12	FLOOR MAT SEE SPECS
F-13	ROLL VINYL

WALLS	
W-1	Concrete Block - Three (3) coats paint
W-2	Gypsum Board - Three (3) coats paint
W-3	Brick Sealed
W-4	Wood Paneling - Five (5) coats finish
W-5	Vinyl Wall Fabric over 5/8" Gypsum Board
W-6	Window Wall - (See Details)
W-7	Copenhagen Acoustic Panels (See Details) 3 coats Olympic Stain finish
W-8	Copenhagen Acoustic Panels (See Details) 3 coats Olympic Stain finish
W-9	Three (3) coats Epoxy Glaze on Block or Brick
W-10	Ceramic Tile
W-11	Concrete - Plaster Coat - Three (3) coats paint
W-12	Concrete - Unfinished
W-13	Concrete Block - Unfinished
W-14	CONCRETE - RUBBED FINISH

CEILINGS	
C-1	2'x2' and 2'x4' Suspended Acoustical Tile
C-2	2'x2' Shadow Line Suspended Acoustical Tile
C-3	2'x4' Suspended Metal Faced Acoustical Tile
C-4	2'x4' Suspended Acoustical Tile
C-5	5'x5' Suspended Pyramid Module with Electrical Fixture
C-6	5'x5' Suspended Acoustical Tile
C-7	Suspended Metal Lath Plaster
C-8	Suspended Metal Lath Plaster - Three (3) coats Epoxy Glaze
C-9	C-7 with three (3) coats paint
C-10	Exposed Metal Joists and Decking - Three (3) coats paint
C-11	Exposed Concrete Pan System - No finish
C-12	C-11 with three (3) coats paint
C-13	Special Construction (See Details) Three (3) coats paint - Three (3) coats Olympic Stain
C-14	5/8" Gypsum Board - Three (3) coats paint
C-15	Concrete Joists with Acoustic Tile (See Specs and Details)
C-16	Concrete Joists - Three (3) coats paint
C-17	Concrete Joists - No finish
C-18	CONCRETE - PLASTERED - (3) COATS PAINT

WILLARD C. NELSON · ASSOCIATES
ARCHITECTS
PROVO UTAH

HIGH SCHOOL BUILDING
PROVO CITY SCHOOL DISTRICT
PROVO UTAH

DRAWING SUBJECT: FLOOR PLAN · AREA "F"
AUDITORIUM · MUSIC · SPEECH & DRAMA

REVISIONS

DATE 1 MAY '74

SERIES

SHEET NO. F

NOTE:

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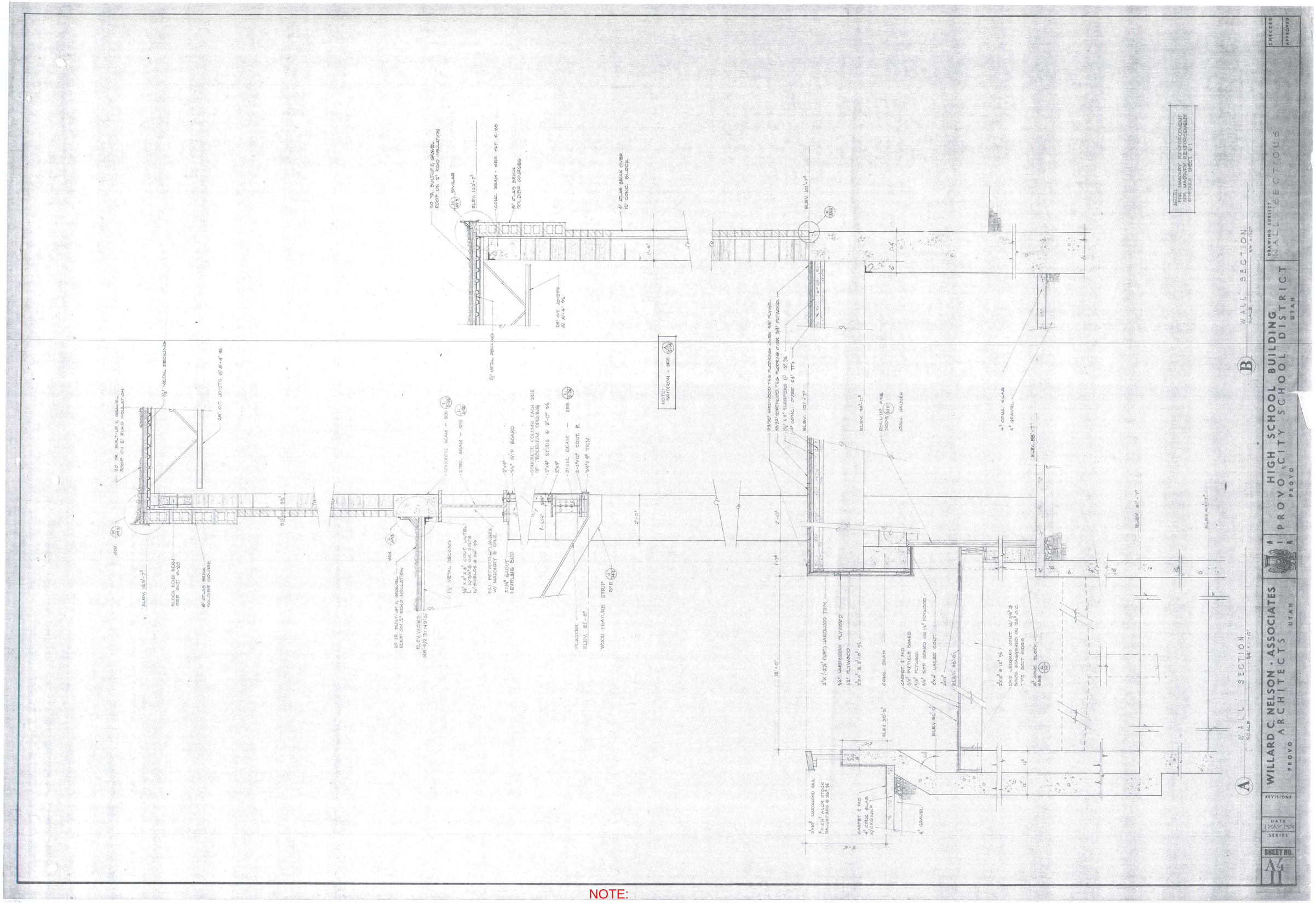

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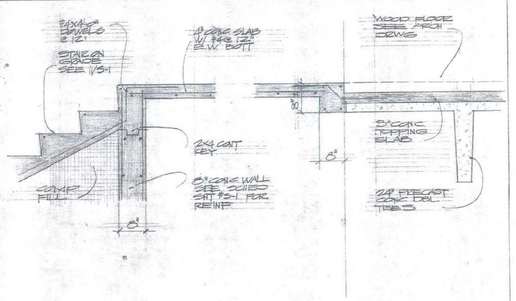
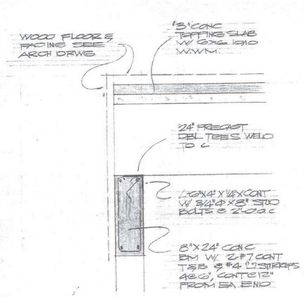
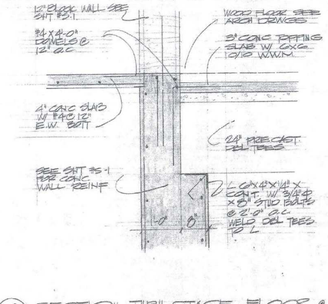


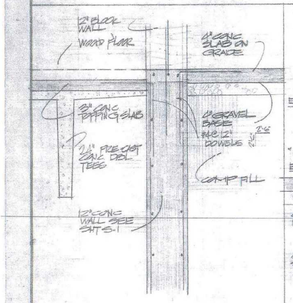
A 3/S3 SECTION THRU SIDE STAIRS TO STAGE FLOOR
SCALE : 3/4" = 1'-0"



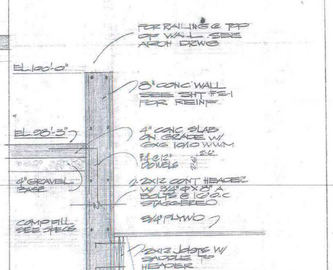
B 5/S3 SECTION THRU BEAM @ STAGE FLOOR @ FRONT
SCALE : 3/4" = 1'-0"



C 5/S3 SECTION THRU STAGE FLOOR @ FRONT WALL @ SIDE
SCALE : 3/4" = 1'-0"



D 6/S3 SECTION THRU SO. WALL OF STAGE
SCALE : 3/4" = 1'-0"



E 6/S3 SECTION THRU ORCHESTRA PIT @ FRONT WALL
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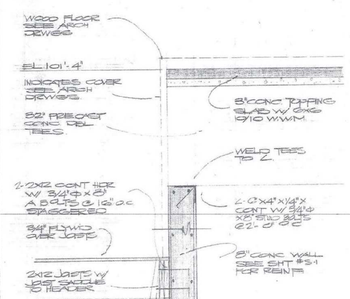
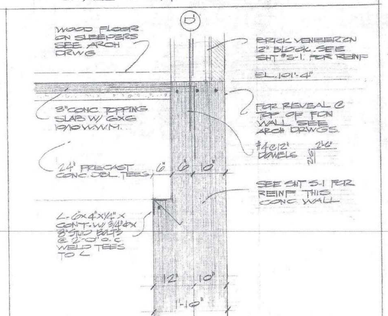
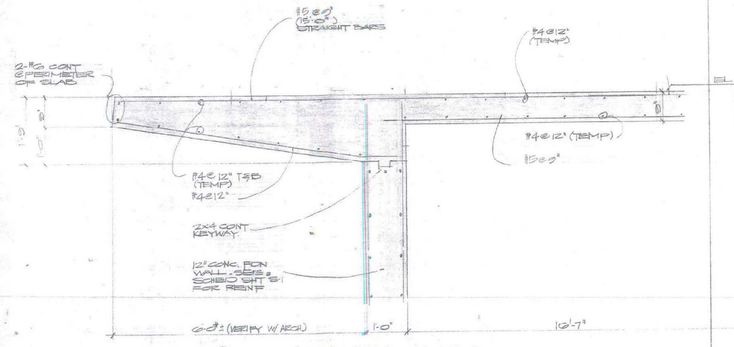


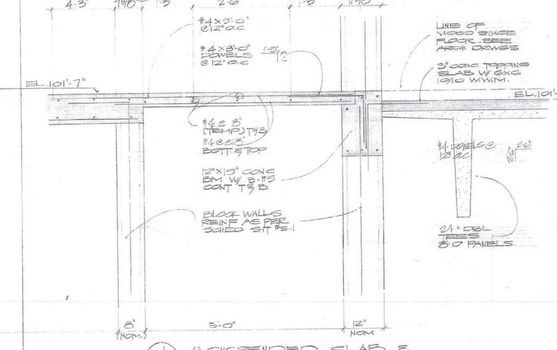
F 5/S3 SECTION THRU STAGE FLOOR @ FRONT
SCALE : 3/4" = 1'-0"



G 5/S3 SECTION THRU STAGE FLOOR @ REAR WALL
SCALE : 3/4" = 1'-0"



H 5/S3 CANTILEVERED SLAB & SUSPENDED SLAB SECTION
SCALE : 3/4" = 1'-0"



J 4/S3 SUSPENDED SLAB & STAGE FLOOR SECTION
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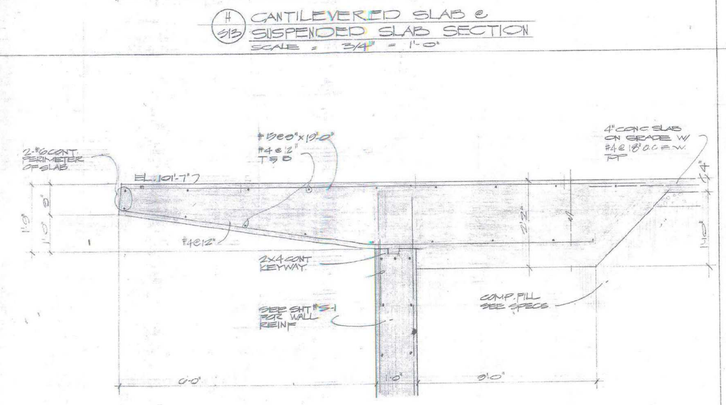
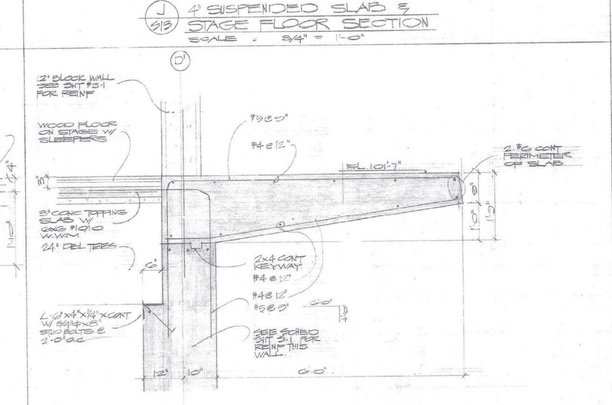
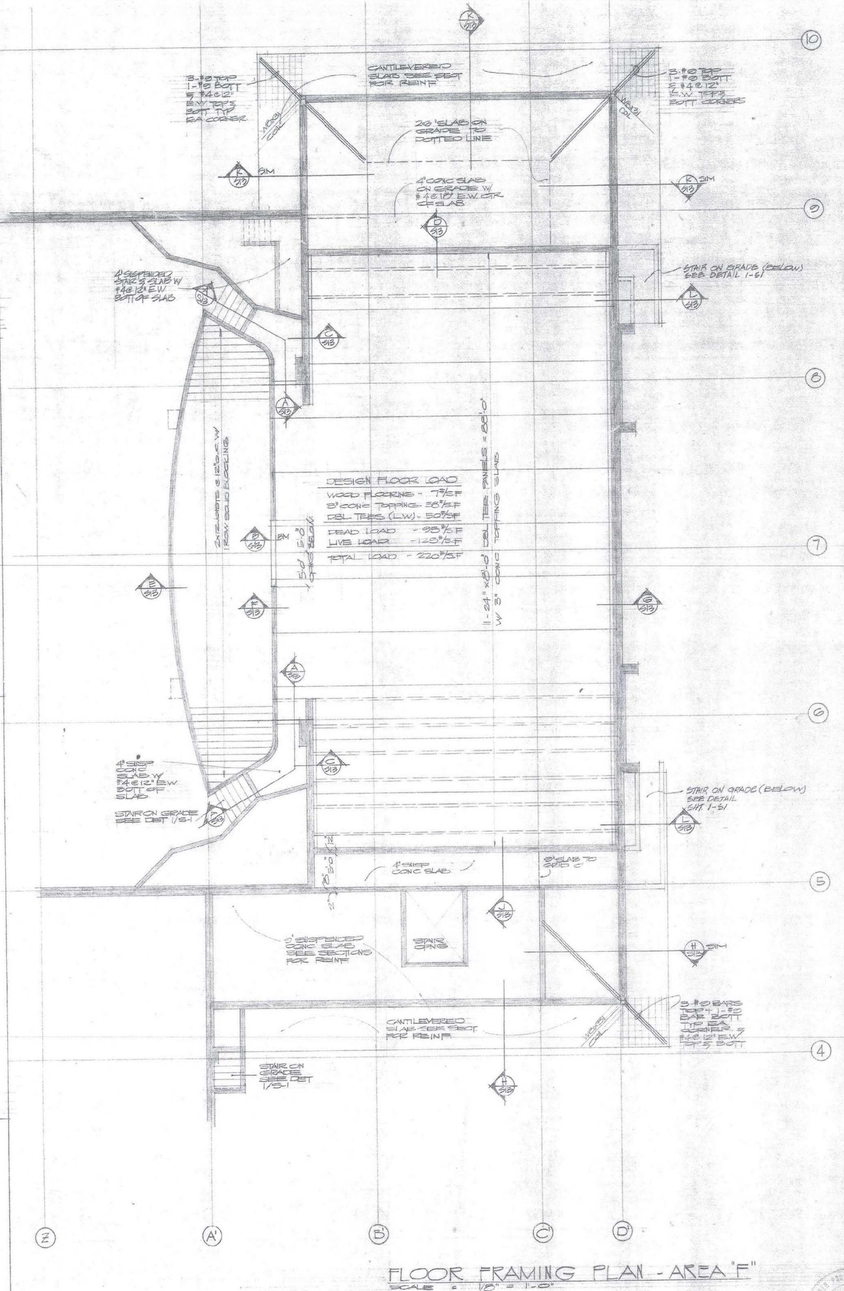


K 3/S3 CANTILEVERED SLAB @ SLAB ON GRADE SECTION
SCALE : 3/4" = 1'-0"



L 3/S3 CANTILEVERED SLAB @ STAGE FLOOR SECTION
SCALE : 3/4" = 1'-0"



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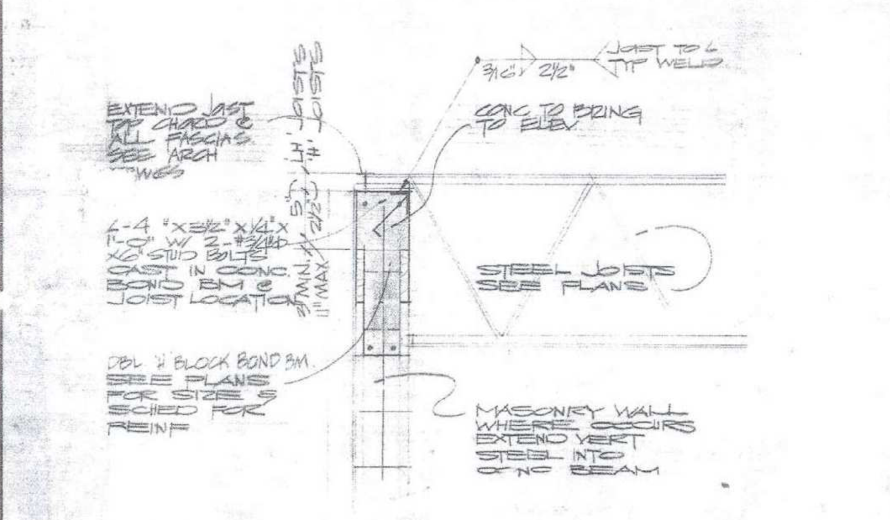
DRAWING SUBJECT
STRUCTURAL
FLOOR FRAMING PLAN - AREA "F"

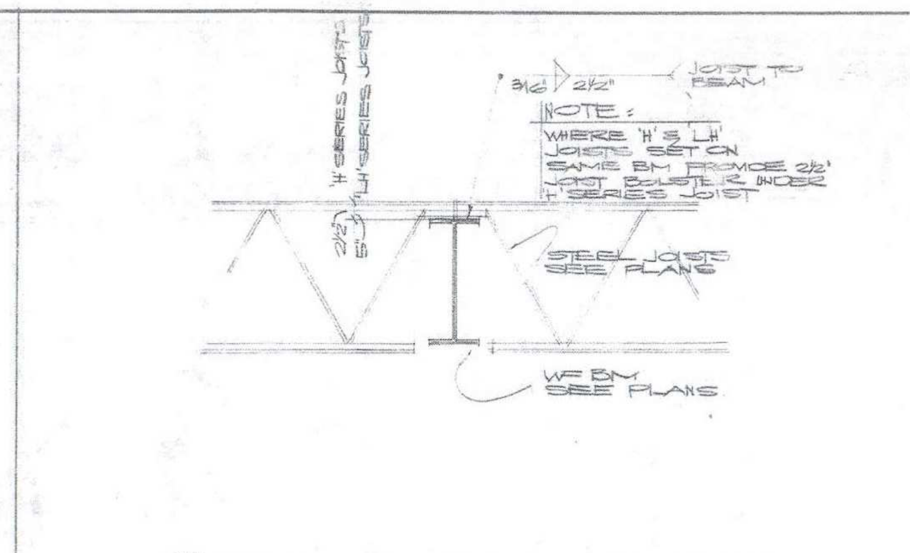
HIGH SCHOOL BUILDING
PROVO CITY SCHOOL DISTRICT
PROVO UTAH

WILLARD C. NELSON - ASSOCIATES
ARCHITECTS
PROVO UTAH

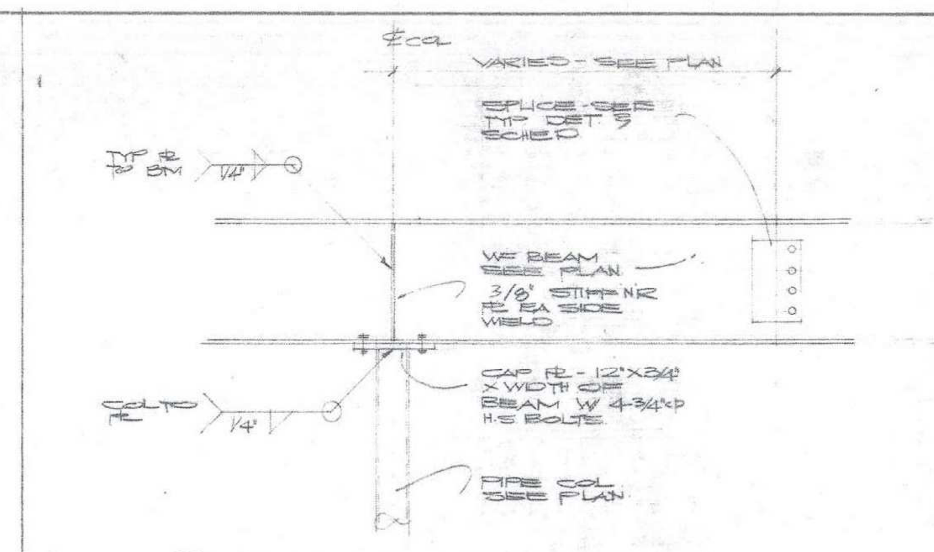
REVISIONS
DATE
SERIES
SHEET NO. S13



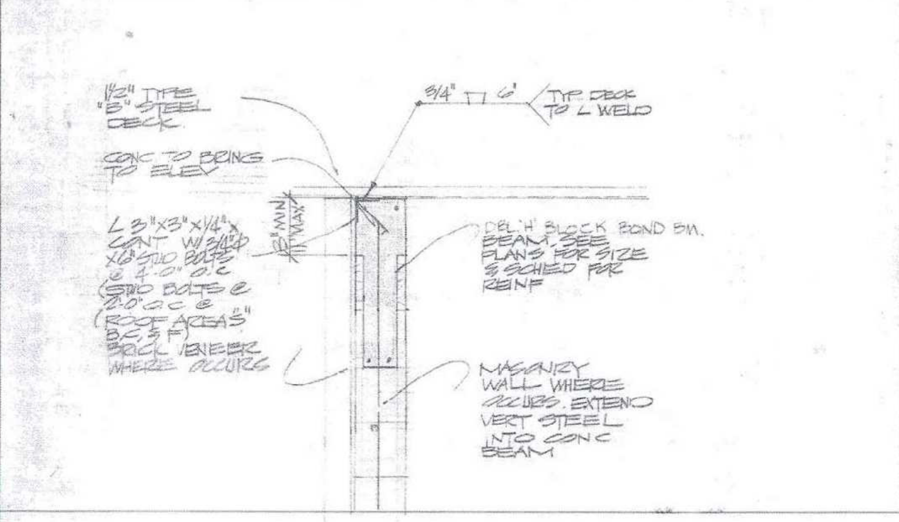
6/S-1 TYPICAL STEEL JOIST TO CONC BEAM CONN. DETAIL
SCALE = 3/4" = 1'-0"



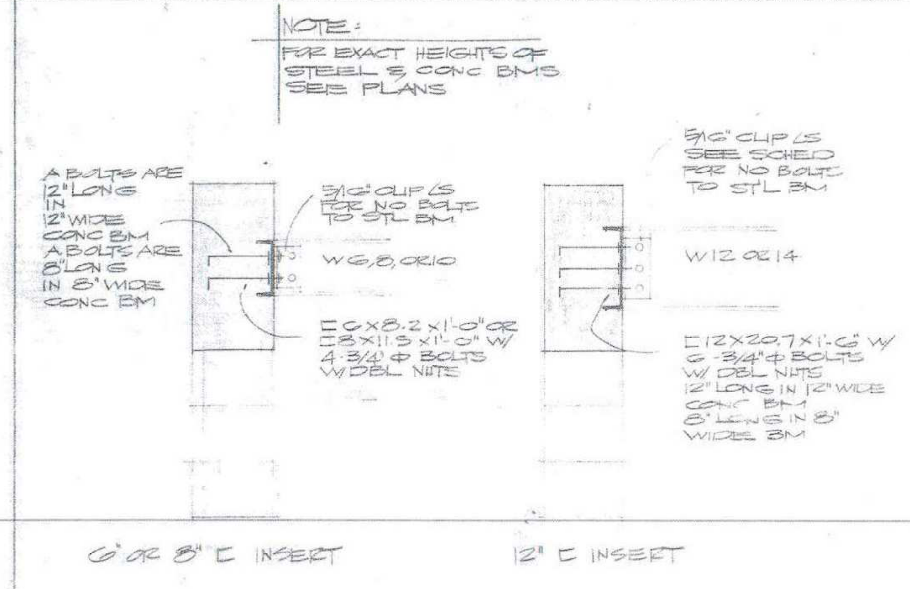
7/S-1 TYPICAL STEEL JOIST TO WF BEAM CONN. DETAIL
SCALE = 3/4" = 1'-0"



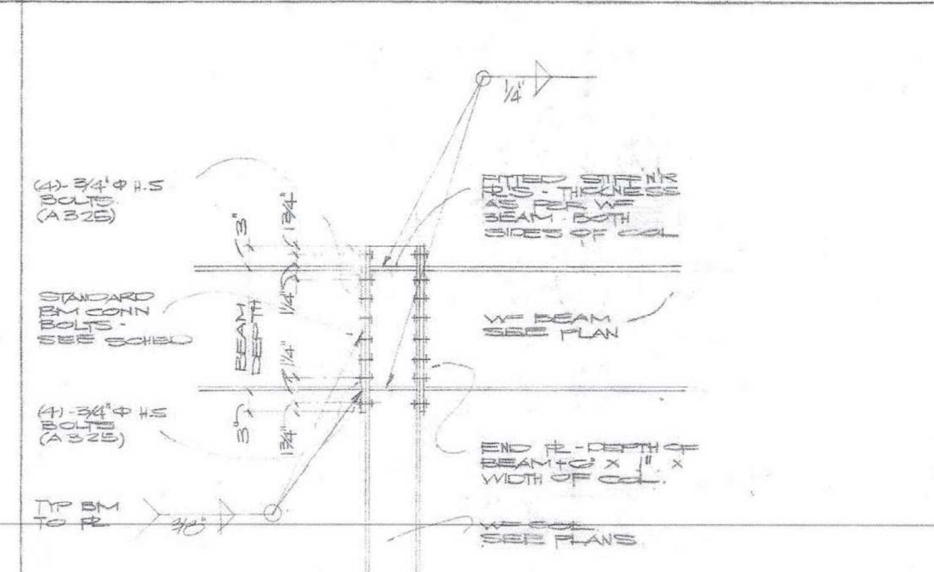
3/S-1 TYPICAL PIPE COLUMN TO WF BEAM DETAIL
SCALE = 3/4" = 1'-0"



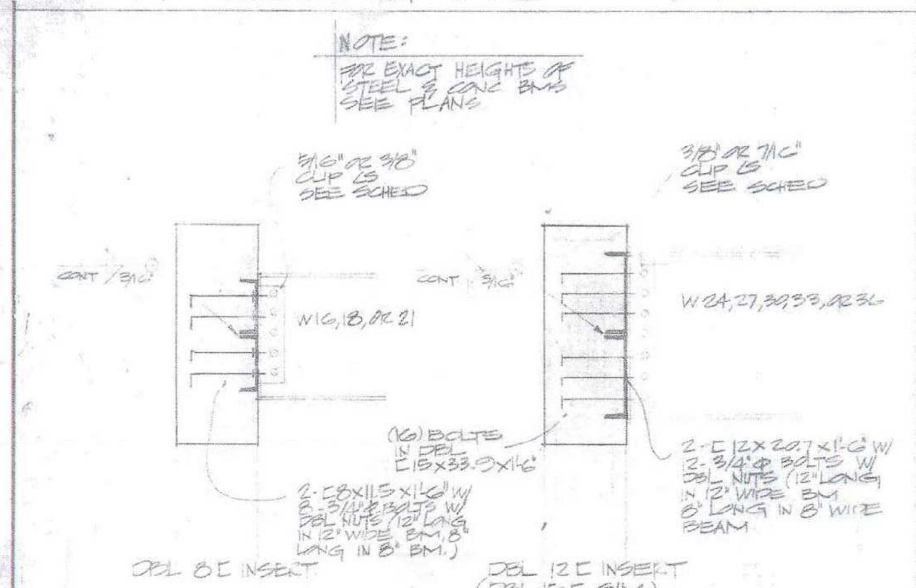
8/S-1 TYPICAL DECK CONN TO CONC ROOF BEAM DET
SCALE = 3/4" = 1'-0"



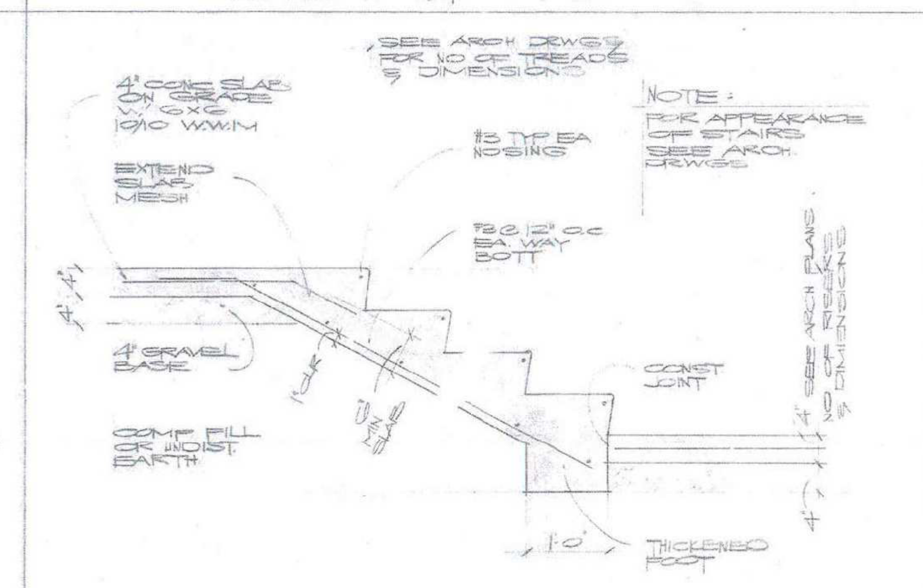
9/S-1 TYPICAL STEEL BEAM TO CONC BEAM CONN. DETAIL
SCALE = 3/4" = 1'-0"



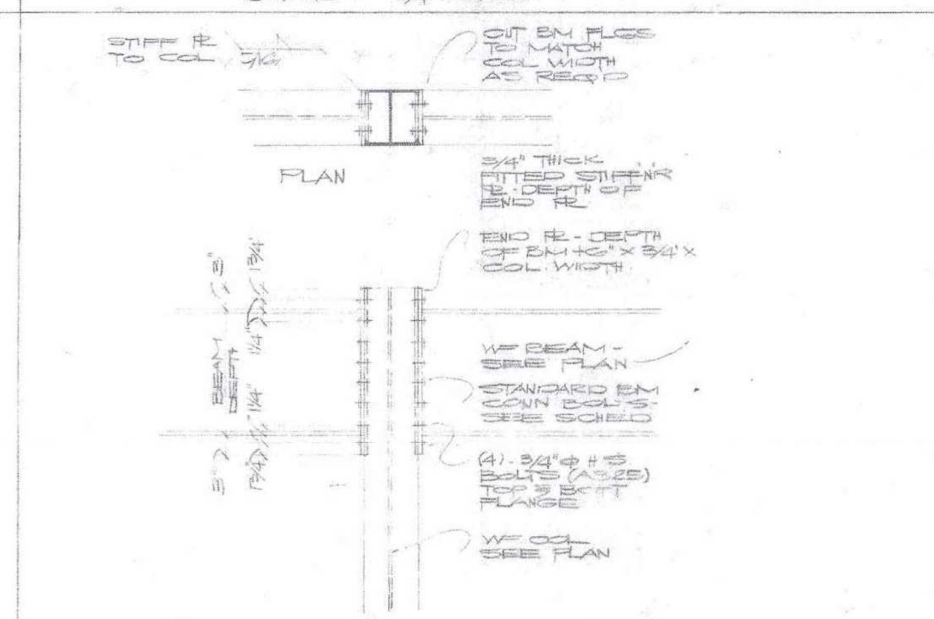
4/S-1 TYPICAL MOMENT CONN. - WF COL TO WF BEAM
SCALE = 3/4" = 1'-0"



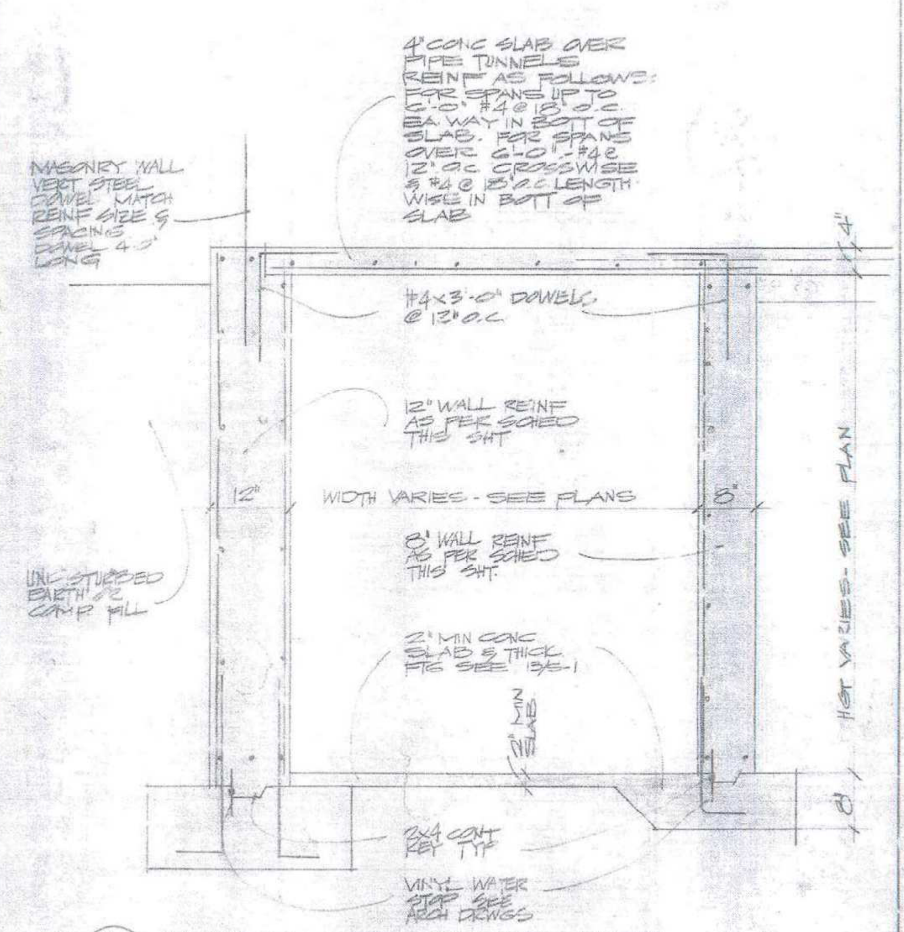
10/S-1 TYPICAL STEEL BEAM TO CONC BEAM CONN. DETAIL
SCALE = 3/4" = 1'-0"



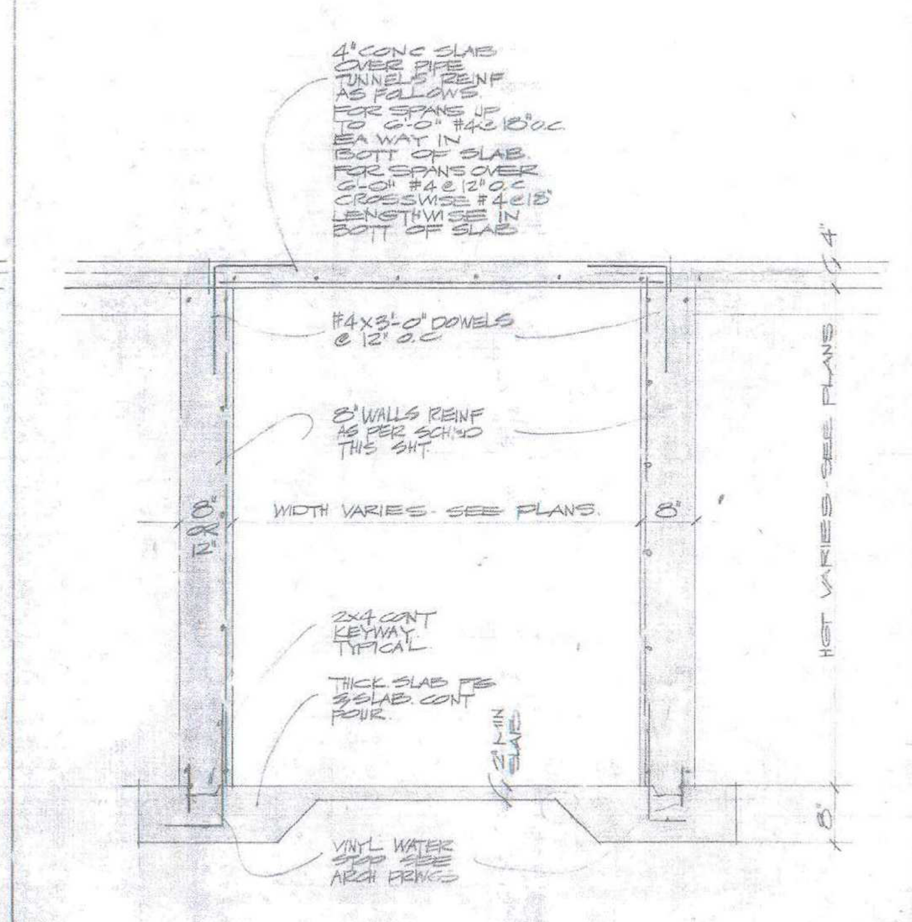
11/S-1 TYPICAL CONC STAIR ON GRADE DETAIL
SCALE = 3/4" = 1'-0"



5/S-1 TYPICAL MOMENT CONN. - WF COL TO WF BEAM
SCALE = 3/4" = 1'-0"



12/S1 TYPICAL EXTERIOR PIPE TUNNEL SECTION
SCALE = 3/4" = 1'-0"



13/S1 TYPICAL INTERIOR PIPE TUNNEL SECTION
SCALE = 3/4" = 1'-0"

STANDARD STEEL BEAM CONNECTION TABLE

BEAM SIZE	CLIP ANGLE OR SPLICE PL THICKNESS	TOTAL NO OF 3/4" Φ A-325 H.S. BOLTS
W6	5/16"	2
W8 & W10	5/16"	4
W12 & W14	5/16"	6
W16 & W18	5/16"	8
W21	3/8"	10
W24	3/8"	12
W27	3/8"	14
W30	3/8"	16
W33	7/16"	18
W36	7/16"	20

NOTE: THIS TABLE TO BE USED FOR ALL STEEL BEAM TO BEAM; BEAM TO COLUMN & BEAM TO CHANNEL INSERT CAST IN CONCRETE BEAMS UNLESS NOTED OTHERWISE.

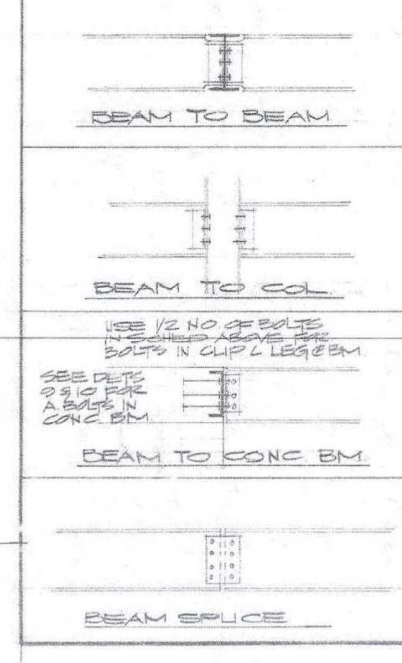


TABLE ABOVE INDICATES TOTAL NO OF BOLTS IN OUTSTANDING LEGS OF ANGLES OR END PLATES

D.O.

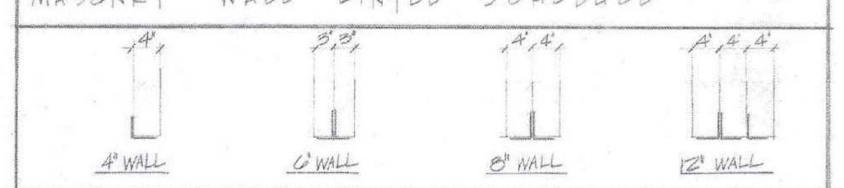
CHANNEL INSERTS IN CONC BEAM AS FOLLOWS FOR WF BEAMS:

WF BEAMS	CHANNEL INSERTS
W6	1 - [6×8.2×1'-0"
W8 & 10	1 - [8×11.5×1'-0"
W12 & 14	1 - [12×20.7×1'-6"
W16, 18 & 21	*2 - [8×11.5×1'-6"
W24 & 27	*2 - [12×20.7×1'-6"
W30, 33, 36	*2 - [15×33.9×1'-6"

* WELD LEGS OF DBL CHL TOGETHER

TABLE INDICATES TOTAL NO. OF BOLTS PER CONNECTION

MASONRY WALL LINTEL SCHEDULE



OPENING SIZE	ANGLE SIZE FOR EA. 4" WIDTH	ANGLE SIZE FOR EACH 3" WIDTH
UP TO 5'-0"	3½"×2½"×¼"	3½"×2½"×¼"
5'-0" TO 7'-0"	3½"×3"×¼"	WT 7×11 (6" WIDTH O.A.)
7'-0" TO 9'-0"	4"×3½"×¼"	
9'-0" TO 10'-0"	5"×3½"×¼"	
10'-0" TO 12'-0"	6"×4"×5/16"	
12'-0" AND OVER	SEE FRAMING PLANS	D.O.

1. BEARING OF ANGLES SHOULD BE ONE INCH (1") FOR EA. FOOT OF OPENING, EACH SIDE. MIN. BRG. 6" 2. STEEL TO BE A-36

GENERAL NOTES

1. ALL FOOTINGS TO BE ON UNDISTURBED EARTH (THICKENED SLABS TO BE ON FILL COMPACTED TO 95% MAXIMUM DENSITY BASED ON A.A.S.H.O. MODIFIED T-180)
2. ALL CONC. FOOTINGS SHALL HAVE A COMPRESSIVE STRENGTH EQUAL TO 3,000 LBS PER SQ. INCH. WITHIN 28 DAYS AFTER POURING. ALL OTHERS TO BE 4,000 P.S.I.
3. ALL METAL REINFORCEMENT TO BE DEFORMED TYPE BARS (EXCEPT #2 BARS) AND SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS A.S.T.M. A615 GRADE 60
4. ALL STRUCTURAL STEEL TO BE A.S.T.M. A-36 AND SHALL COMPLY WITH THE "STANDARD SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS" OF THE A.I.S.C. AND WITH THE A.I.S.C. CODE OF STANDARD PRACTICE.
5. ALL REINFORCEMENT BARS SHALL BE SECURELY ANCHORED AND SHALL BE SPACED FROM THE FORMS (UNLESS NOTED OTHERWISE) AS FOLLOWS: 1½" IN BEAMS & COLUMNS, ¾" IN JOISTS, ¾" IN PROTECTED WALLS & SUSPENDED SLABS, 2" IN UNPROTECTED WALLS, & 3" ABOVE BOTTOM OF FOOTINGS
6. UNLESS NOTED OTHERWISE MAKE ALL CONC. SLABS ON EARTH AT LEAST 4" THICK & REINF W/ 6"×6" 10/10 W.W. MESH OR EQUAL. BEARING EARTH TO BE UNDISTURBED SOIL OR FILL COMPACTED TO 95% MAXIMUM DENSITY BASED ON A.A.S.H.O. MODIFIED T-180
7. ALL SPLICES IN CONTINUOUS REINFORCING BARS SHALL LAP 36 DIAMETERS ALL SUCH SPLICES SHALL BE MADE IN A REGION OF COMPRESSION UNLESS NOTED OTHERWISE
8. ALL OPENINGS IN CONCRETE WALLS TO BE REINFORCED WITH 2-#5 EACH FACE OF OPENING PLUS 2-#5 BARS @ EACH CORNER PLACED @ 45° TO THE HORIZONTAL
9. WALL FOOTINGS TO BE PROVIDED W/ CONT. 2"×4" KEY WAY IN ALL RETAIN TYPE WALLS. ALL WALL FOOTINGS TO HAVE VERTICAL DOWELS TO MATCH VERTICAL WALL STEEL OR A MINIMUM OF #4 BARS @ 18" O.C. UNLESS NOTED OTHERWISE
10. ALL CONCRETE CONSTRUCTION JOINTS TO BE KEYED W/ A 1½" DEEP KEY WAY W/ A WIDTH 2" LESS THAN THE MEMBER AND A DEPTH 1/3 OF THE MEMBER LOCATED @ THE CENTER OF THE MEMBER.
11. CONCRETE CONSTRUCTION JOINTS TO BE LOCATED @ MID SPAN OF MEMBERS ONLY AND AS APPROVED BY ARCHITECT.
12. ALL BOLTS FOR STEEL TO STEEL OR STEEL TO CONCRETE (FOR CHANNEL INSERTS) TO BE A.S.T.M. A-325 HIGH STRENGTH BOLTS, W/ CARBORIZED WASHERS UNDER TURNING END AND TORQUED TO 28,600 LBS. - BOLTS FOR BASE PL ANCHOR BOLTS TO BE A-36 STEEL.
13. ALL STEEL TO STEEL BEAM CONNECTIONS NOT SHOWN TO BE AS SHOWN IN A.I.S.C. FRAMED BEAM CONNECTIONS W/ 3/4 Φ A-325 BOLTS AND 5/16" CLIP ANGLES OR END PLATES.
14. STEEL JOISTS TO BE FABRICATED & ERECTED ACCORDING TO LATEST SPECIFICATIONS OF STEEL JOIST INSTITUTE
15. MINIMUM COMPRESSIVE STRENGTH OF MASONRY:
    CONTRACTOR IS TO PROVIDE, PRIOR TO ANY MASONRY WORK, & THERE AFTER FOR EVERY 5,000 SQ. FT. OF MASONRY WORK, 3 SETS OF GROUTED TEST PRISMS. CONSTRUCT SAMPLE AS "FIELD MASONRY" TO BE TESTED BY APPROVED TESTING LABORATORY TO DETERMINE ULTIMATE COMPRESSIVE STRENGTH (f'M) OF THE PRISM OF MASONRY. PRISMS SHALL CONSIST OF TWO (2) STACKED BRICKS W/ ONE (1) CELL GROUTED, & ARE TO BE CURED & TESTED ACCORDING TO U.B.C. SECTION 2404, TO FAILURE. PRISMS SHALL BE SPLIT VERTICALLY BEFORE TESTING. THE REQUIRED MINIMUM 28 DAY COMPRESSIVE STRENGTH FOR THE PRISMS IS TO BE 3000 P.S.I. IN ORDER TO ACCOMPLISH THE REQUIRED COMPRESSIVE STRENGTH, THE FOLLOWING COMPONENT STRENGTHS ARE RECOMENDED AS PER U.B.C. =
    BRICK : COMPRESSIVE STRENGTH = 6000 P.S.I.
    MORTAR: TYPE 'S' COMPRESSIVE STRENGTH = 2000 P.S.I.
    GROUT: (MINIMUM 6 BAG MIX) WITH ONE PART PORTLAND CEMENT, THREE PARTS SAND, TWO PARTS PEA GRAVEL (BY VOLUME) = 2000 P.S.I.
16. CONTRACTOR TO BE RESPONSIBLE FOR LATERALLY SUPPORTING ALL RETAINING-TYPE FOUNDATION WALLS WHILE COMPACTING BEHIND WALLS AND UNTIL ALL SUPPORTING MEMBERS HAVE BEEN PLACED, I.E.; FLOOR SLABS, ETC.

CONC. WALL REINFORCEMENT SCHED.

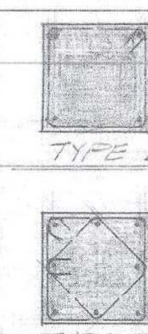
THICKNESS OF WALL	INTERIOR WALLS (EARTH TO BOTH SIDES)	EXTERIOR & RETAINING TYPE WALLS
6"	2-#4 CONT TOP & BOTT OF WALL	#4 @ 18" O.C EA WAY CTR OF WALL + 2-#4 CONT TOP & BOTT
8"	2-#5 CONT TOP & BOTT OF WALL	#4 @ 18" O.C EA WAY EA FACE OF WALL + 2-#5 CONT TOP & BOTT
10" & 12"	3-#6 CONT TOP & BOTT OF WALL	#4 @ 12" O.C EA WAY EA FACE OF WALL + 3-#6 CONT TOP & BOTT
LARGER THAN 12"	4-#6 CONT TOP & BOTT OF WALL	#4 @ 12" O.C EA WAY EA FACE OF WALL + 4-#6 CONT TOP & BOTT
8" PIPE TUNNEL WALL	————	#4 @ 18" O.C E.W. INSIDE FACE W/ 2-#5 TOP & BOTT

NOTE: UNLESS NOTED OTHERWISE ON DETAILS, USE THIS TABLE FOR REINF IN ALL WALLS

TYP. COLUMN BASE PL & PIER REINFORCING SCHEDULE

COLUMN SIZE	BASE PL SIZE	ANCHOR BOLTS	CONC PIER OR CONC. COL	REINF VERT	REINF TIES
W6	11"×3/4"×11"	4-3/4"Φ×12"	SEE PLAN	4-#6	#4 @ 12"
W8	13"×3/4"×13"	4-3/4"Φ×12"	D.O.	D.O.	D.O.
W12 & W10	12"×3/4"×12"	4-3/4"Φ×12"	D.O.	D.O.	D.O.
W16	12"×3/4"×16"	4-1"Φ×16"	NONE	NONE	NONE
3½" Φ PIPE	9"×3/4"×9"	4-3/4"Φ×12"	SEE PLANS	4-#6	#4 @ 12"
4" Φ PIPE	10"×3/4"×10"	4-3/4"Φ×12"	D.O.	D.O.	D.O.
5" Φ PIPE	11"×3/4"×11"	4-3/4"Φ×12"	D.O.	D.O.	D.O.
6" Φ PIPE	11"×3/4"×11"	4-3/4"Φ×12"	D.O.	D.O.	D.O.
6" Φ PIPE	11"×3/4"×11"	4-3/4"Φ×12"	D.O.	D.O.	D.O.
8" Φ PIPE	13"×3/4"×13"	4-3/4"Φ×12"	D.O.	D.O.	D.O.
C-1 SEE PLANS			TYPE 1	4-#6	#4 @ 12"
C-2 SEE PLANS				4-#9	#4 @ 16"
C-3 SEE PLANS				4-#5	#4 @ 10"
C-4 SEE PLANS			D.O.	4-#7	#4 @ 14"
C-5 SEE PLANS			TYPE 2	8-#8	#4 @ 16"

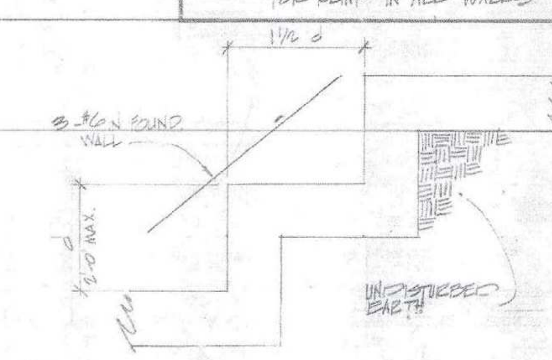
* WHERE APLICABLE, SEE FOOTING & FOUNDATION PLAN



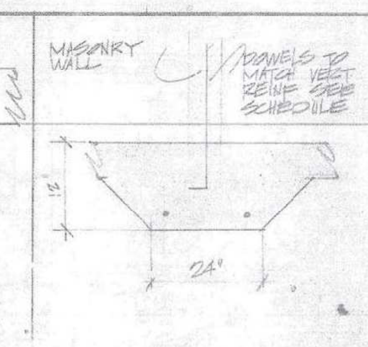
MASONRY WALL REINFORCEMENT SCHEDULE

WALL TYPE & THICKNESS	VERTICAL REINFORCEMENT	HORIZONTAL REINF.
6" BLOCK	#6 @ 48"	1-#5 @ 48" IN SINGLE 'H' BLOCK. FILL W/ CONC
8" BLOCK OR 10" BLOCK	#7 @ 48"	2-#4 @ 48" IN SINGLE 'H' BLOCK. FILL W/ CONC
12" BLOCK	#8 @ 48"	2-#4 @ 48" IN SINGLE 'H' BLOCK. FILL W/ CONC.
6" ATLAS BRICK	#6 @ 48"	2-3/16" RODS W/ (IN JOINT) LADDER TIES @ 16" O.C
8" ATLAS BRICK	#7 @ 48"	2-3/16" RODS W/ (IN JOINT) LADDER TIES @ 12" O.C
4" BRICK W/ 4" BLOCK SEE DET	#7 @ 48" (IN GROUT SPACE)	#4 @ 24" IN GROUTED SPACE
12" ATLAS BRICK (8"×12" TURNED 90° TO WALL) GYMS, NATATORIUM	2-#6 @ 48"	2-H BRICKS W/ 2-#4 CONT @ 48" O.C

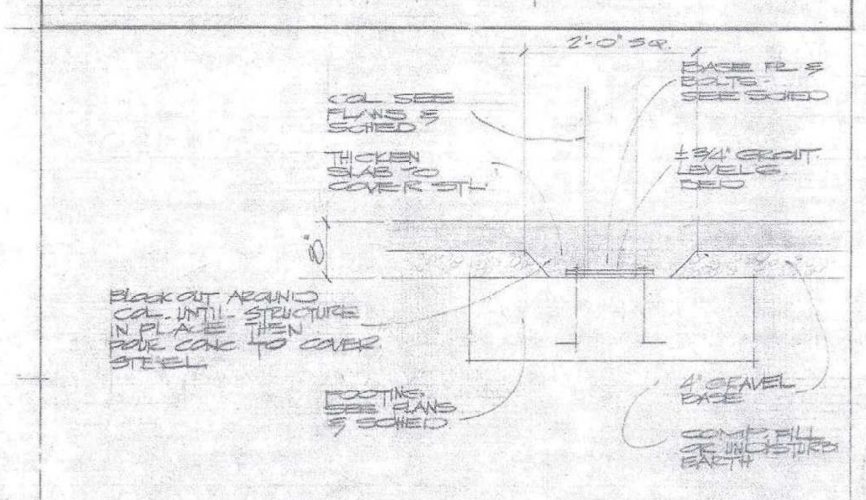
SEE NOTE # GENERAL NOTES FOR GROUTED CELLS



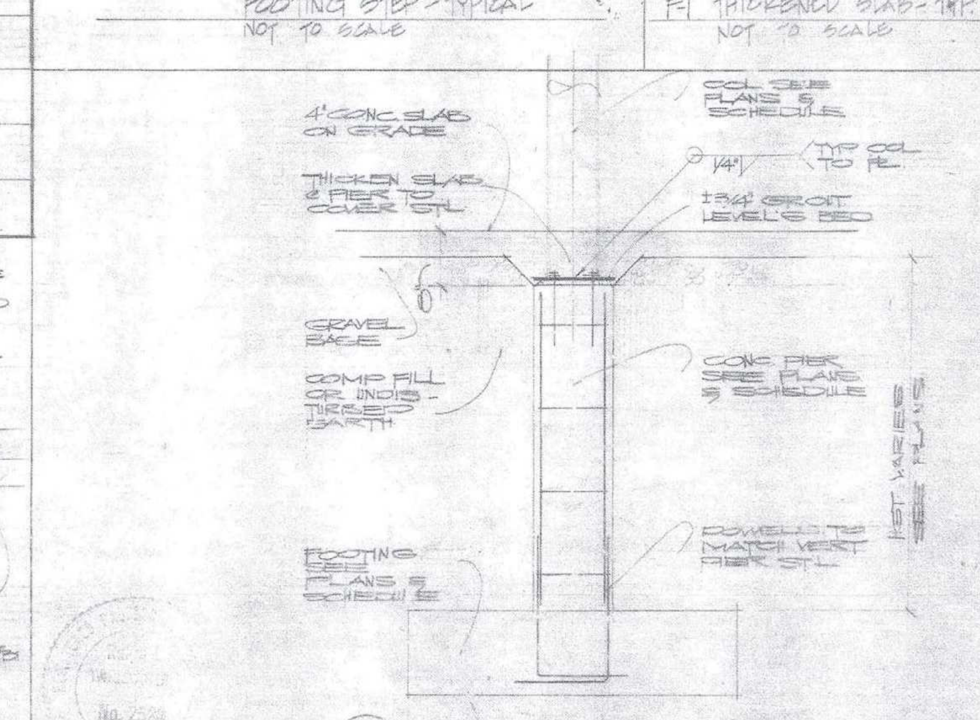
FOOTING STEP - TYPICAL
NOT TO SCALE



F-1 THICKENED SLAB - TYP.
NOT TO SCALE



2/S-1 TYPICAL COLUMN BASE PL TO FOOTING DETAIL
NOT TO SCALE



1/S1 TYPICAL CONCRETE PIER & COL BASE PL DET
NOT TO SCALE

CHECKED | APPROVED

DRAWING SUBJECT: STRUCTURAL TABLES & GENERAL NOTES

HIGH SCHOOL BUILDING
PROVO CITY SCHOOL DISTRICT
PROVO UTAH

WILLARD C. NELSON · ASSOCIATES
ARCHITECTS
PROVO UTAH

REVISIONS
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