

INDEX OF SHEETS (CONST.)

-- SEE SHEET 1A

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS

FED. AID REGION NO.	TENN.	YEAR	SHEET NO.
4	N	1984	1
FED. AID PROJ. NO.		IR-40-5(82)267	
STATE PROJ. NO.		80001-3147-44	

SMITH COUNTY

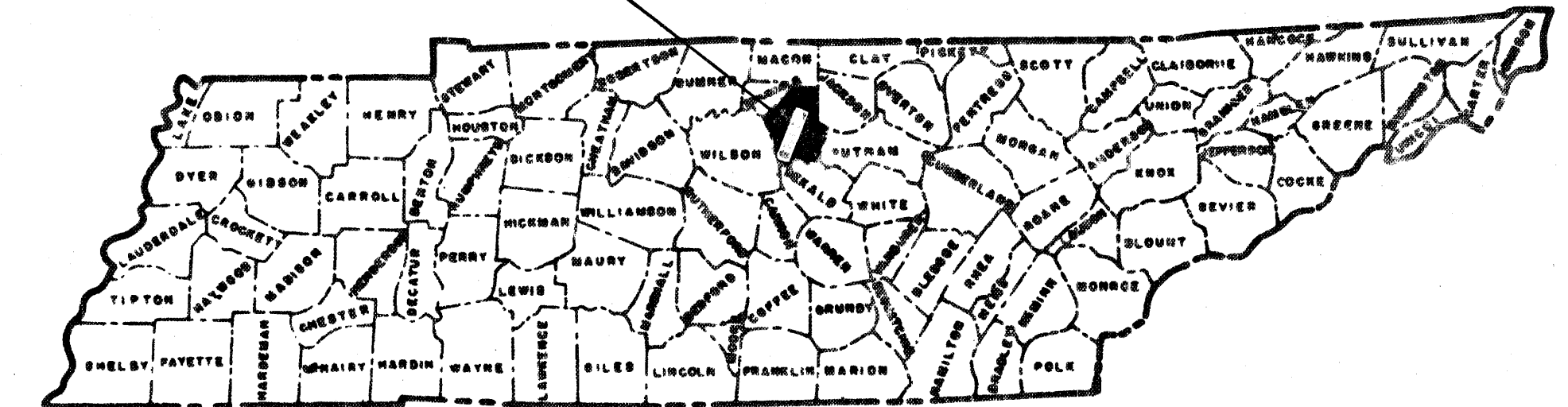
I-40 REST AREA
SITE NO.17

GRADE, DRAIN, PAVE, BUILDING, EXTERIOR LIGHTING & LANDSCAPING

INTERSTATE HIGHWAY NO. 40

F.A.H.S. NO. FAI-40

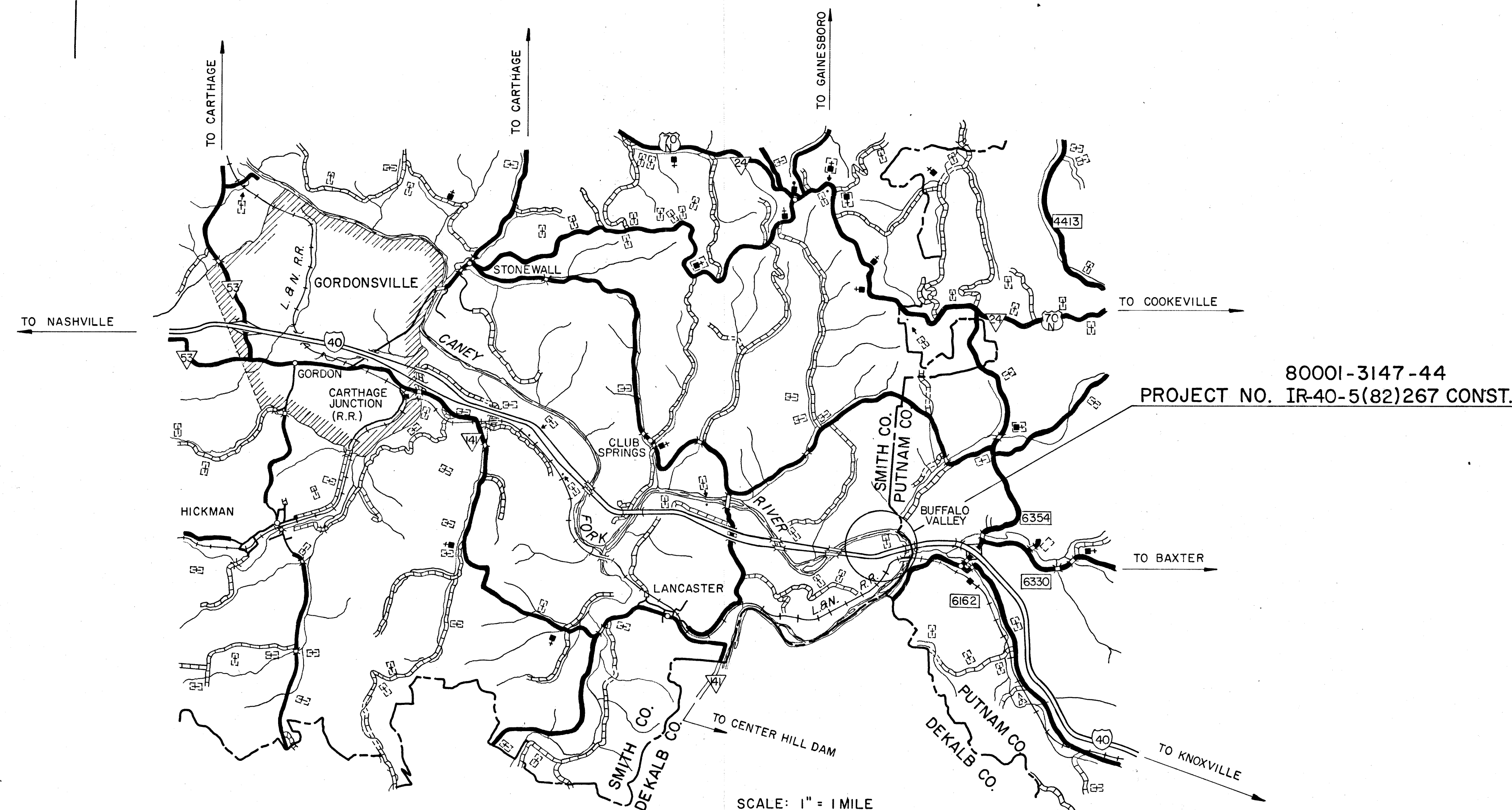
IR-40-5(82)267
SMITH CO.



NO EQUATIONS
NO EXCLUSIONS

TRAFFIC DATA

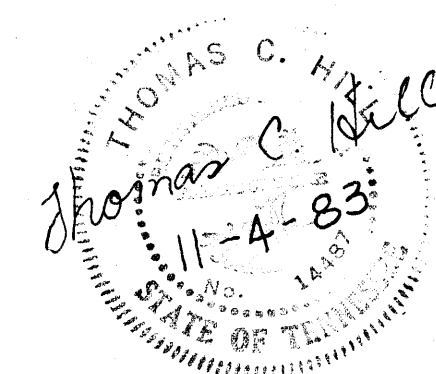
ADT (1984)	16,700
ADT (2004)	23,400
DHV (2004)	3,042
D	60-40
T	22
V	70 MPH



80001-3147-44
PROJECT NO. IR-40-5(82)267 CONST.

SPECIAL NOTE

PROPOSALS MAY BE REJECTED BY THE COMMISSIONER IF ANY OF THE UNIT PRICES CONTAINED THEREIN ARE OBVIOUSLY UNBALANCED, EITHER EXCESSIVE OR BELOW THE REASONABLE COST ANALYSIS VALUE.



THIS PROJECT TO BE CONSTRUCTED UNDER THE STANDARD SPECIFICATIONS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION DATED MARCH 1, 1981 AND ADDITIONAL SPECIFICATIONS AND SPECIAL PROVISIONS CONTAINED IN THE PLANS AND IN THE PROPOSAL CONTRACT.

DESIGNER HART-FREELAND-ROBERTS, INC.

CHECK BY

T. HILL

APPROVED *Louis Evans*
STATE TRANSPORTATION ENGINEER

DATE

APPROVED *Pat E. Hill*
COMMISSIONER

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED:

DIVISION ADMINISTRATOR

DATE

PROJECT LENGTH = 0.000 MI.
ROADWAY LENGTH = 0.000 MI.
BOX BRIDGE LENGTH = 0.000 MI.
BRIDGE LENGTH = 0.000 MI.

TENNESSEE HIGHWAYS
Plans File
Div. 160

ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	QUANTITY	UNIT
109-10.01	TRAINEE	1000	HOOR
201-01	CLEARING AND GRUBBING	1	L.S.
① 202-06.01	REMOVAL OF BUILDING (REST AREA BUILDING)	1	L.S.
202-06.02	REMOVAL OF BUILDING (13.5' x 17.5' FRAME STORAGE BUILDING)	1	L.S.
202-06.03	REMOVAL OF BUILDING (WATER TREATMENT BUILDING)	1	L.S.
203-01	ROAD AND DRAINAGE EXCAVATION (UNCLASSIFIED)	4,003	C.Y.
203-03	BORROW EXCAVATION (UNCLASSIFIED)	37,550	C.Y.
203-04	PLACING AND SPREADING TOPSOIL	2,023	C.Y.
203-06	WATER	92	M.G.
204-07	BEDDING MATERIAL (PIPE) CLASS (B)	61	C.Y.
209-01	TEMPORARY BERM	1600	L.F.
209-02	TEMPORARY SLOPE DRAIN	200	L.F.
209-06	BALED HAY OR STRAW EROSION CHECKS	420	BALE
303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING 'D'	1261	TON
307-03.12	BITUMINOUS PLANT MIX BASE (HOT MIX) (BPMB-HM) GRADING "C"	361	TON
306-01.01	PORTLAND CEMENT CONCRETE BASE (PLAIN) 6"	676	S.Y.
309-01.01	MINERAL AGGREGATE (A-CBC)	3,451	TON
309-01.02	PORTLAND CEMENT (A-CBC)	173	TON
309-01.03	PROCESSING AGGREGATE - CEMENT BASE COURSE (A-CBC)	10,198	S.Y.
309-02	BITUMINOUS MATERIAL (A-CBC)	9	TON
402-01	BITUMINOUS MATERIAL FOR PRIME COAT (PC)	1	TON
403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC)	1	TON
411-01.01	MINERAL AGGREGATE FOR ASPHALTIC CONCRETE SURFACE (ACS) GRADING 'D'	391	TON
411-01.02	ASPHALT CEMENT FOR ASPHALTIC CONCRETE SURFACE (ACS) GRADING 'D'	25	TON
501-01.02	PORTLAND CEMENT CONCRETE PAVEMENT (PLAIN 9")	9515	S.Y.
604-01.01	CLASS 'A' CONCRETE (ROADWAY)	10	C.Y.
604-01.02	STEEL BAR REINFORCEMENT (ROADWAY)	80	LB.
607-02.02	15" CONCRETE PIPE CULVERT (CLASS III)	48	L.F.
607-03.02	18" CONCRETE PIPE CULVERT (CLASS III)	584	L.F.
607-05.02	24" CONCRETE PIPE CULVERT (CLASS III)	366	L.F.
611-02.01	MANHOLES, TYPE 3, 5' DIAMETER, 0'-4' DEPTH	1	EACH
611-02.03	MANHOLES, TYPE 3, 5' DIAMETER, 6'-8' DEPTH	1	EACH
611-02.04	MANHOLES, TYPE 3, 5' DIAMETER, 8'-12' DEPTH	2	EACH
611-02.51	CAPPING EXISTING CATCH BASIN	4	EACH
611-03.01	CLASS 'A' CONCRETE (CATCHBASIN)	13	C.Y.
611-03.03	BRICK MASONRY (CATCHBASIN)	11	M. BRICK
611-03.04	GRAY IRON CASTINGS (CATCHBASIN)	8514	POUND
611-07.01	CLASS 'A' CONCRETE (PIPE ENDWALLS)	14	C.Y.
611-07.02	STEEL BAR REINFORCING (PIPE ENDWALLS)	140	LB.
611-07.04	STRUCTURAL STEEL (CATCH BASIN)	278	LB.
701-01.01	CONCRETE SIDEWALK (4 INCHES)	216	S.F.
⑨ 701-01.06	PEBBLE-FINISH SIDEWALK	12,712	S.F.
701-03	CONCRETE MEDIAN PAVEMENT	25	C.Y.
702-01	CONCRETE CURB	44	C.Y.
702-03	CONCRETE COMBINED CURB AND GUTTER	290	C.Y.
703-01	CEMENT CONCRETE DITCH PAVING	7	C.Y.
712-01	TRAFFIC CONTROL	1	L.S.
712-05.01	WARNING LIGHTS (TYPE A)	10	PER EACH
712-05.03	WARNING LIGHTS (TYPE C)	150	PER EACH
712-06	SIGNS (CONSTRUCTION)	291	S.F.
712-07.01	TEMPORARY BARRICADES (TYPE I)	970	L.F.
712-07.02	TEMPORARY BARRICADES (TYPE II)	106	L.F.
712-07.03	TEMPORARY BARRICADES (TYPE III)	30	L.F.
716-05.01	PAINTED PAVEMENT MARKING (LINE)	0.859	LIN MI
716-05.03	PAINTED PAVEMENT MARKING (CROSS-WALK)	320	L.F.
716-05.06	PAINTED PAVEMENT MARKING (TURN LANE ARROW)	1	EACH
716-06.01	PAINTED WORD PAVEMENT MARKING (ONLY)	1	EACH
712-09.01	REMOVABLE PAVEMENT MARKING LINE	2,981	L.F.
713-01.01	CLASS A CONCRETE (FOUNDATIONS FOR SIGN SUPPORTS)	4	C.Y.
713-01.02	STEEL BAR REINFORCEMENT (FOUNDATIONS FOR SIGN SUPPORTS)	866	LB.
713-05	STRUCTURAL STEEL HOLLOW SQUARE POSTS (BREAK-AWAY) FOR SIGN SUPPORTS	873	LB.
713-13.02	FLAT SHEET ALUMINUM SIGNS (0.080" THICK)	151	S.F.
713-13.04	FLAT SHEET ALUMINUM SIGNS (0.125" THICK)	18	S.F.
713-06	STRUCTURAL STEEL I-BEAMS AND W-BEAMS (BREAK-AWAY) FOR SIGN SUPPORTS	151	LB.

ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	QUANTITY	UNIT
717-01	MOBILIZATION	1	LUMP SUM
802-01.01	TREES (THORNLESS HONEY LOCUST, 1 3/4"-2" CAL.)	30	EACH
802-01.02	TREES (FOREST PANSY REDBUD, 1 1/2"-1 3/4" CAL.)	14	EACH
802-01.03	TREES (VIRGINIA PINE, 2 1/4"-2 1/2" CAL.)	90	EACH
802-01.04	TREES (RED OAK, 2 1/2"-3" CAL.)	22	EACH
802-01.05	TREES (AMERICAN SYCAMORE, 2 1/2"-3" CAL.)	22	EACH
802-01.06	TREES (PINK-FLOWERING DOGWOOD, 1 1/2"-1 3/4" CAL.)	6	EACH
802-01.07	TREES (BARTON WHITE-FLOWERING DOGWOOD, 1 1/2"-1 3/4" CAL.)	26	EACH
802-01.08	TREES (GOLDEN RAINTREE, 2 1/4"-2 1/2" CAL.)	17	EACH
802-01.09	TREES (TULIP OR YELLOW POPLAR, 2 1/2"-3" CAL.)	26	EACH
802-01.10	TREES (TULIP MAGNOLIA, 1-1 1/2" CAL.)	3	EACH
802-01.11	TREES (SOUTHERN MAGNOLIA, 2-2 1/2" CAL.)	1	EACH
802-03.01	SHRUBS (SHADOW'S CHESAPEAKE VIBURNUM, 36" B/B)	9	EACH
802-03.02	SHRUBS (DOUBLEFILE VIBURNUM, 36" B/B)	4	EACH
802-03.03	SHRUBS (LEATHERLEAF VIBURNUM, 36" B/B)	3	EACH
802-03.04	SHRUBS (ANTHONY WATERER SPIREA, 24" B/B)	14	EACH
802-03.05	SHRUBS (BRIDAL WREATH SPIREA, 24" B/B)	10	EACH
802-03.06	SHRUBS (JAPANESE ANDROMEDA, 24" B/B)	24	EACH
802-03.07	SHRUBS (ANGLOJAPANESE YEW, 24" B/B)	72	EACH
802-03.08	SHRUBS (FOSTER'S HOLLY, 36" B/B)	7	EACH
802-03.09	SHRUBS (BURNING BUSH, 24" B/B)	16	EACH
802-03.10	SHRUBS (OAKLEAF HYDRANGEA, 36" B/B)	9	EACH
802-03.11	SHRUBS (WHITE-FLOWERED RHODODENDRON, 24" B/B)	10	EACH
802-03.12	SHRUBS (LILAC-FLOWERED RHODODENDRON, 24" B/B)	5	EACH
⑥ 802-04.01	GROUND COVER (PERIWINKLE, 4" POT)	104	S.Y.
802-04.02	(HOSTA SPECIES, BULB)	494	EACH
801-01	SEEDING (WITH MULCH)	211	UNIT
801-03	WATER (SEEDING AND SODDING)	35	M.G.
801-07	SEED (SUPPLEMENTAL APPLICATION)	50	LB.
801-08	FERTILIZER (SUPPLEMENTAL APPLICATION)	1	TON.
803-01	SODDING (NEW SOD)	2420	S.Y.
BUILDING AND EQUIPMENT QUANTITIES			
ITEM NO.	DESCRIPTION	QUANTITY	UNIT
720-01	REST AREA BUILDING (SITE 17) COMPLETE	1	L.S.
⑤ 702-03.01	REMOVAL AND RELOCATION OF EXISTING PICNIC SHELTER	1	L.S.
714-01.65	EXTERIOR LIGHTING COMPLETE (ROADWAY, PATHWAY AND AREA SYSTEM)	1	L.S.
720-60.01	GARBAGE RECEPTACLE	28	EACH
720-60.02	TEMPORARY PUBLIC REST ROOM FACILITY	2	UNITS
⑩ ⑧ 720-60.03	TEMPORARY PUBLIC REST ROOM FACILITY (PORTABLE)	2	UNITS

- ① DISPOSAL AS APPROVED BY THE ENGINEER.
- ② QUANTITY MAY BE INCREASED, DECREASED, OR ELIMINATED AS DIRECTED BY THE ENGINEER.
- ③ FOR BOTANICAL NAMES AND REMARKS, SEE SHEETS 7 AND 7A.
- ④ INCLUDES ALL APPURTENANCES FOR BUILDING, FLAGPOLES, BENCHES, CONNECTIONS TO EXISTING UTILITIES, CHAINLINK FENCE, ETC. FOR SATISFACTORY COMPLETION OF BUILDING.
- ⑤ INCLUDES CONCRETE BASE FOR RELOCATED STRUCTURE, REMOVAL AND DISPOSAL OF EXISTING CONCRETE BASE, RELOCATION OF STRUCTURE, AND ANY NEEDED MATERIALS TO COMPLETE RELOCATION.
- ⑥ INCLUDES APPROXIMATELY 2,600 4" POTS SPACED AT 8" C.C.
- ⑦ INCLUDES 74 UNITS FOR SEEDING BORROW PITS.
- ⑧ INCLUDES ALL APPURTENANCES FOR THE TEMPORARY REST ROOM BUILDING, CONNECTIONS TO UTILITIES, ACCESS SIDEWALKS, AND MAINTENANCE AS DESCRIBED ON SHEET 2B, 2F & 9-C. TWO (2) SEPARATE UNITS WILL BE REQUIRED, ONE (1) FOR WOMEN, AND ONE (1) FOR MEN.
- ⑨ INCLUDES AREA FOR SETTING TRASH RECEPTACLES.
- ⑩ THE CONTRACTOR SHALL FURNISH A TEMPORARY REST ROOM FACILITY AS SHOWN ON SHEET NO. 2F. THE PRICE BID SHALL INCLUDE DESIGN; CONSTRUCTION; MAINTENANCE OF HARDWARE; INSTALLATION OF ALL APPURTENANCES AS DESCRIBED OR SHOWN HEREIN; DEMOLITION OR REMOVAL OF STRUCTURE; AND RETURNING SITE TO ORIGINAL CONDITIONS AND CONTOURS. THE CONTRACTOR SHALL SUBMIT BIDS ON BOTH ALTERNATES AS FOLLOWS:
1. ITEM NO. 720-60.02 TEMPORARY PUBLIC REST ROOM FACILITY
THIS ITEM SHALL BE AN ON-SITE CONSTRUCTED BUILDING OR PREFABRICATED BUILDING. THE PRICE BID SHALL INCLUDE DEMOLITION AND DISPOSAL AND/OR REMOVAL OF BUILDING MATERIALS FROM THE SITE.
2. ITEM NO. 720-60.03 TEMPORARY PUBLIC REST ROOM FACILITY (PORTABLE)
THIS ITEM SHALL BE A PREFABRICATED BUILDING EQUIPPED WITH AXELS, WHEELS, TIRES AND TRAILER HITCH AND SHALL BECOME PROPERTY OF THE STATE AT THE CONCLUSION OF THE PROJECT. THE BUILDING SHALL BE REMOVED TO THE PARKING AREA FOR PICKUP BY STATE MAINTENANCE FORCES.
PROPOSALS NOT CONTAINING UNIT BID PRICE FOR BOTH ALTERNATES SHALL BE SUBJECT TO REJECTION BY THE COMMISSIONER OF TRANSPORTATION. BIDS SHALL BE TABULATED AND AWARDED ON THE BASIS OF THE LOWEST ALTERNATE BID. THE STATE RESERVES THE RIGHT TO CHOOSE THE ALTERNATE TO BE CONSTRUCTED.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	84	IR-40-5(82)267	2

REV. 2-21-84: CHANGED QUANTITIES FOR 712-06.01, 712-05.03, 712-06 & 720-60.01. ADDED QUANTITIES TO 202-06.03, 712-07.01, 712-07.02, 712-09.01 & 720-60.02. DELETED 712-04.

REV. 3-8-84: ADDED ITEM NOS. 201-01, 202-07.01, 306-01.01, 713-01.01, 713-01.02, 713-05, 713-06, 713-13.02 AND 713-13.04. QUANTITIES CHANGED ITEM NOS. 203-06, 303-01, 307-03.12, 701-01.01, 712-06, 802-01.04, 802-01.05, 802-01.06, 802-01.07, 802-01.09. ADDED FOOTNOTE ⑨.

REV. 4-11-84: CHANGED ITEM NO. 802-06.01 TO 802-04.02. DELETED ITEM NO. 802-08.02. ADDED ITEM NO. 720-60.03. CHANGED QUANTITY & UNIT ON ITEM NO. 720-60.02. ADDED FOOTNOTE ⑩. DELETED ITEM NO. 702-07.01.

REV. 4-13-84: REVISED FOOTNOTES ⑧ & ⑩.

REV. 11-01-85: REVISED QUANTITIES FOR ITEM NOS. 204-07, 303-01, 307-03.12, 411-01.01, 411-01.02, 604-01.01, 607-03.02, 611-03.01, 611-07.01, 611-07.02, 611-07.04, 702-03, 713-01.01, 713-01.02, 713-05, & 713-13.02.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS

ESTIMATED
QUANTITIES

GRADING

- THE FINISHED GRADE SHOWN ON THE PROFILE IS THE SAME AS FINISHED GRADE SHOWN ON CROSS-SECTIONS AND FINISHED GRADE SHOWN ON THE TYPICAL SECTIONS.
- THE COST OF REMOVING EXISTING PAVEMENT IS TO BE INCLUDED IN THE PRICE BID FOR ITEM 203-01, ROAD AND DRAINAGE EXCAVATION(UNCLASSIFIED).
- EXCAVATION AND EMBANKMENT REQUIRED FOR PARKING LOTS AND BUILDING PAD SHALL BE MEASURED AND INCLUDED IN ITEMS 203-01, ROAD AND DRAINAGE EXCAVATION (UNCLASSIFIED) AND ITEM 203-03 BORROW EXCAVATION (UNCLASSIFIED). EXCAVATION FOR FOOTINGS FOR THE BUILDING SHALL BE INCLUDED IN THE COST OF ITEM 720-01 REST AREA BUILDING (SITE 17) COMPLETE.

PICNIC SHELTER RELOCATION

- DETAILS ON SHEET 2E FOR PICNIC SHELTERS ARE FOR INFORMATION PURPOSES. THE PROPOSED SHELTER SHOWN ON SHEET 4 IS TO BE SALVAGED FROM THE EXISTING SHELTER SHOWN TO BE REMOVED. ALL WORK IS TO BE PAID FOR UNDER ITEM 702-03.01. THIS ITEM SHALL INCLUDE CONSTRUCTION OF NEW CONCRETE BASE, REMOVAL AND DISPOSAL OF EXISTING CONCRETE BASE, RELOCATION OF STRUCTURE, AND ANY NEEDED MATERIALS TO COMPLETE RELOCATION.

WATER TREATMENT BUILDING

- THE STATE IS CURRENTLY WORKING TO BRING A PUBLIC WATER SOURCE TO THE PRESENT SITE AT THE LOCATION SHOWN ON SHEET II. THE CONTRACTOR SHALL COORDINATE WORK WITH THE WATER CONTRACTOR TO INSURE A CONSTANT WATER SOURCE. AFTER THE EXISTING SOURCE IS TAKEN OUT OF SERVICE, THE WATER TREATMENT BUILDING SHALL BE DEMOLISHED ACCORDING TO SECTION 202. EQUIPMENT INSIDE THE BUILDING IS TO BE SALVAGED BY THE CONTRACTOR AND SHALL BECOME HIS PROPERTY. COVER WITH 2' OF EARTH FILL, TOPSOIL AND SEED. REMOVAL TO BE PAID FOR UNDER ITEM 202-06.03.

DRAINAGE

- THE COST OF CULVERT EXCAVATION FOR PIPE CULVERTS, ENDWALLS, MANHOLES & JUNCTION BOXES IS TO BE INCLUDED IN THE PRICE BID PER LINEAR FOOT OF PIPE.
- THE COST OF EXCAVATION FOR CATCH BASINS IS TO BE INCLUDED IN THE PRICE BID FOR ITEM 611-03.01 CLASS A CONCRETE (CATCH BASIN).
- WHERE A CULVERT IS MOVED TO A NEW LOCATION OTHER THAN SHOWN ON THE PLANS, INCREASING OR DECREASING THE AMOUNT OF CULVERT EXCAVATION, NO INCREASE OR DECREASE IN THE AMOUNT OF PAYMENT WILL BE MADE DUE TO SUCH CHANGE.
- THE COST OF REMOVAL OF EXISTING ENDWALLS WHERE EXISTING PIPES ARE TO BE CONNECTED TO PROPOSED PIPES SHALL BE INCLUDED IN THE PRICE BID PER LINEAR FOOT OF PIPE.

TEMPORARY PUBLIC REST ROOM FACILITY (TRAILER)

- THE CONTRACTOR SHALL MAINTAIN IN GOOD WORKING CONDITION ALL EQUIPMENT AND FIXTURES IN THE TEMPORARY REST ROOMS. ALL COSTS TO BE INCLUDED IN ITEM NO. 720-60.02. CLEANING, RESTOCKING OF SUPPLIES, AND TRASH REMOVAL SHALL BE THE RESPONSIBILITY OF OTHERS.
- THE CONTRACTOR SHALL THOROUGHLY CLEAN THE FRAME STORAGE BUILDING PRESENTLY ON SITE AND INSTALL ELECTRICAL CONNECTIONS AS DESIGNATED ON SHEET 2F. THIS BUILDING SHALL BE USED BY STATE MAINTENANCE AS A STOREROOM AND OFFICE FOR CLEANUP PERSONNEL. AT SUCH TIME DEMOLITION OF THIS BUILDING BEGINS, THE CONTRACTOR SHALL PROVIDE ADEQUATE SPACE AND STORAGE ROOM ON SITE UNTIL SPACE IS PROVIDED IN THE NEW BUILDING.

UTILITIES

- UTILITY OWNERS FOR THIS PROJECT ARE:
ELECTRIC: UPPER CUMBERLAND ELECTRIC.
TELEPHONE: DEKALB COUNTY TELEPHONE COOPERATIVE.
- LOCATIONS OF UTILITIES SHOWN WITHIN THESE PLANS ARE APPROXIMATE ONLY. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD BY CONTACTING THE UTILITY COMPANIES INVOLVED.
- UNLESS OTHERWISE NOTED, UTILITY OWNERS ARE TO RESET, RELAY OR READJUST ALL PUBLIC AND PRIVATE UTILITIES CONFLICTING WITH PROPOSED IMPROVEMENT. THE CONTRACTOR WILL BE REQUIRED TO COOPERATE WITH THE OWNERS OF LOCAL UTILITIES IN THE ADJUSTMENT OF THEIR FACILITIES WHERE THEY INTERFERE WITH CONSTRUCTION.
- THE CONTRACTOR WILL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT. IN THE EVENT THAT SPECIAL EQUIPMENT IS REQUIRED TO WORK OVER AND AROUND UTILITIES, THE CONTRACTOR WILL BE REQUIRED TO FURNISH SUCH EQUIPMENT. THE COST OF PROTECTING UTILITIES FROM DAMAGE AND FURNISHING SPECIAL EQUIPMENT WILL BE INCLUDED IN THE UNIT PRICE BID FOR OTHER ITEMS OF CONSTRUCTION.
- THE CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR CONTACTING ALL AFFECTED UTILITIES PRIOR TO SUBMITTING HIS BID IN ORDER TO DETERMINE THE EXTENT TO WHICH UTILITY RELOCATIONS AND OR ADJUSTMENTS WILL HAVE UPON THE SCHEDULING OF THE WORK FOR THE PROJECT. SOME UTILITY FACILITIES MAY NEED TO BE ADJUSTED CONCURRENTLY WITH THE CONTRACTOR'S OPERATIONS, WHILE SOME WORK MAY BE REQUIRED "AROUND" UTILITY FACILITIES THAT WILL REMAIN IN PLACE. IT IS UNDERSTOOD AND AGREED THAT THE CONTRACTOR WILL RECEIVE NO ADDITIONAL COMPENSATION FOR ANY DELAYS OR INCONVENIENCE CAUSED BY THE UTILITY ADJUSTMENTS.
- THE CONTRACTOR SHALL NOTIFY EACH INDIVIDUAL UTILITY OWNER OF HIS PLAN OF OPERATION IN THE AREA OF THE UTILITIES PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL CONTACT THE UTILITY OWNERS AND REQUEST THEM TO PROPERLY LOCATE THEIR RESPECTIVE UTILITY ON THE GROUND. THIS NOTIFICATION SHALL BE GIVEN AT LEAST THREE BUSINESS DAYS PRIOR TO COMMENCEMENT OF OPERATIONS AROUND THE UTILITY.

MISCELLANEOUS

- WHERE EXISTING PAVEMENT IS TO BE REMOVED, THE PAVEMENT SHALL BE FIRST SAWED TO A SMOOTH CONSTRUCTION LINE BEFORE THE REMOVAL BEGINS.
- EXISTING TRASH RECEPTACLES SHALL BE USED DURING CONSTRUCTION. TRASH RECEPTACLES AROUND THE EXISTING BUILDING SHALL BE RELOCATED TO THE TEMPORARY REST ROOM FACILITY. AT COMPLETION OF THE PROJECT AND UPON PLACING OF PROPOSED TRASH RECEPTACLES, THE CONTRACTOR SHALL GATHER AND STORE AT AN AREA DESIGNATED BY THE ENGINEER EXISTING TRASH RECEPTACLES FOR PICK UP BY STATE MAINTENANCE. ALL COSTS TO BE INCLUDED IN OTHER ITEMS OF CONSTRUCTION.

BUILDING

- ITEM 720-01 SHALL INCLUDE THE REST AREA BUILDING IN ITS ENTIRETY, INCLUDING ALL GENERAL CONTRACTOR'S WORK CONTAINED THEREIN WITH EXCEPTION ONLY OF THOSE ITEMS LISTED SEPARATELY UNDER THE BUILDING AND EQUIPMENT QUANTITIES SCHEDULE.
- MANUFACTURER'S NAMES AND TRADE NAMES HAVE BEEN USED TO SPECIFY THE DESIRED QUALITY OF MATERIALS. MATERIALS OF EQUAL QUALITY TO THOSE SPECIFIED MAY BE USED IF APPROVED BY THE ENGINEER.
- ALL NECESSARY LICENSE AND BUILDING PERMITS SHALL BE OBTAINED AND PAID FOR BY THE CONTRACTOR TOGETHER WITH ALL INSPECTION FEES, ETC., REQUIRED.
- WHERE THE WORD "ARCHITECT" IS USED IN REGARD TO APPROVAL OF MATERIALS AND/OR WORKMANSHIP THROUGHOUT THE SPECIAL PROVISIONS FOR THE REST AREA, IT SHALL BE CONSTRUED TO MEAN THE STATE'S ENGINEER.

TRAFFIC CONTROL

- THE TRAFFIC CONTROL PLAN SHOWN ON SHEETS 9-9C SHALL BE CONSIDERED A MINIMUM DESIGN. THE CONTRACTOR SHALL TAKE ALL MEASURES NECESSARY TO PROTECT THE TRAVELING PUBLIC INCLUDING ADDITIONAL FENCING AND FLAGMEN. COST INCURRED SHALL BE INCLUDED IN THE COST OF ITEM 712-01 TRAFFIC CONTROL.

SCOPE OF WORK

THIS PROJECT CONSISTS OF, BUT IS NOT LIMITED TO, THE FOLLOWING:

THE CONSTRUCTION OF A REST AREA BUILDING ON SITE 17 IN SMITH COUNTY.

THE GRADING, DRAINING, AND PAVING AT RAMPS AND PARKING AREAS TO THE LINES AND GRADES AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

THE CONSTRUCTION OF CONCRETE CURB, CURB AND GUTTER, PATIO AND SIDEWALKS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

RELOCATION OF ONE (1) PICNIC SHELTER INCLUDING ALL APPURTENANCES NECESSARY FOR CONSTRUCTION OR COMPLETION OF SUCH.

FURNISHING AND PLANTING OF LANDSCAPE ITEMS AS SHOWN ON THE PLANS.

THE INSTALLATION OF WATER LINES, CONNECTION TO EXISTING SANITARY SEWER SYSTEM, SEEDING, SODDING, TRAFFIC CONTROL, AND OTHER ITEMS NECESSARY TO COMPLETE THE PROJECT.

THE CONSTRUCTION OF TEMPORARY PUBLIC RESTROOM FACILITIES AND APPURTENANCES.

THE INSTALLATION OF EXTERIOR LIGHTING SYSTEM AS SHOWN ON THE PLANS.

SIGNING NOTES

- THE LETTERS, DIGITS, ARROWS, BORDERS, AND ALPHABET ACCESSORIES ON ALL FLAT SHEETS SIGNS SHALL BE APPLIED BY SILK SCREENING PROCESS, EXCEPT THAT CUT-OUT DIRECT APPLIED COPY SHALL BE USED ON ALL FLAT SHEET SIGNS WITH A GREEN BACKGROUND.
- THE LENGTHS OF ALL SIGN SUPPORTS SHOWN ON THE SIGN SCHEDULE ARE APPROXIMATE AND ARE FOR ESTIMATING PURPOSES ONLY.
- THE CONTRACTOR SHALL VERIFY ALL SUPPORT LENGTHS AT THE SITE PRIOR TO ERECTION.
- THE TOP OF THE SIGN FOOTINGS SHALL BE PLACED LEVEL WITH THE GROUND LINE.
- AFTER THE SIGN LOCATIONS HAVE BEEN STAKED, BUT PRIOR TO ORDERING ANY MATERIAL FOR THE SUPPORTS, THERE SHALL BE A FIELD INSPECTION AND APPROVAL BY THE REGIONAL CONSTRUCTION OFFICE.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	84	IR-40-582) 267	28

REV. 2-21-84: ADDED NOTE TO TEMPORARY PUBLIC REST ROOM FACILITY.

REV. 3-8-84: ADDED NOTE 3 TO GRADING, SIGNING NOTES. REVISED NOTE 1, WATER TREATMENT BLDG.; NOTE 1, DRAINAGE; NOTE 1, TEMP. PUBLIC RESTROOM; NOTE 1, TRAFFIC CONTROL.

REV. 4-11-84: DELETED NOTE 4 FROM BUILDING.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS

GENERAL NOTES
AND
SCOPE OF WORK

LEARN, SHARE, IMPROVE
PLANS FILED IN
Div. No. 1601
1601

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	84	IR-40-5(82)267	2C

REV. 3-8-84: DELETE MASONRY AND PRECAST CONC. HEADING UNDER MANHOLES.

CATCH BASINS											
CODE	STATION	LOCATION	STRUCTURE	DEPTH	CLASS "A" CONC. 611-03.01 CY.	STRUCT. STEEL 611-07.04 LB.	CLASS "A" CONC. 604-01.01 CY.	BRICK MASONRY 611-03.03 M BRICK	GRAY IRON CASTING 611-03.04 LB.	CAP EXIST. C.B. 611-02.51 EACH	REMARKS
1 CB	A 4+89	95' LT.	# 14 CB	4.0'	1.6	—	—	1.637	1,548		② - ③
4 CB	A 3+90	24' RT.	# 12 CB	3.88'	0.74	—	—	0.668	774		① - ③
5 CAP	A 3+93	1' RT.	EXIST. C.B.	—	—	—	—	—	—	1	TO BE CAPPED
8 CB	A 2+17	95' LT.	# 12 CB	4.0'	0.74	—	—	0.719	774		① - ③
11 CB	A 0+65	45' LT.	# 37 CB	2.17'	1.09	134	1.0	—	—		D-CB-3
13 CB	A 1+18	25' RT.	# 12 CB	4.0'	0.74	—	—	0.719	774		① - ③
15 CAP	A 1+02	1' RT.	EXIST. C.B.	—	—	—	—	—	—	1	TO BE CAPPED
19 CB	B 4+31	95' RT.	# 14 CB	7.0'	1.6	—	—	2.535	1,548		② - ③
21 CAP	B 3+93	1' LT.	EXIST. C.B.	—	—	—	—	—	—	1	TO BE CAPPED
23 CB	B 3+78	26' LT.	# 12 CB	4.0'	0.74	—	—	0.719	774		① - ③
25 CB	B 1+96	95' RT.	# 12 CB	9.1	0.74	—	—	1.816	774		① - ③
26 CB	B 1+09	26' LT.	# 12 CB	4.0'	0.74	—	—	0.719	774		① - ③
28 CAP	B 1+02	1' LT.	EXIST. C.B.	—	—	—	—	—	—	1	TO BE CAPPED
30 CB	C 0+97	24' LT.	# 36 CB	2.17'	0.77	72	0.73	—	—		D-CB-3
31 CB	C 1+00	35' LT.	# 12 CB	3.18'	0.74	—	—	0.585	774		① - ③
TOTALS					10.24	206	1.73	10.117	8514	4	

- ① STANDARD DRAWING D-CB-12
② STANDARD DRAWING D-CB-14
③ STANDARD DRAWING D-CBC-12

ENDWALLS							
CODE	STATION	LOCATION	STRUCTURE	PIPE SIZE	CLASS "A" CONC. 611-07.01 CY.	STEEL BAR REIN. 611-07.02 LB.	REMARKS
3 EW	A 4+72	146' LT.	"U"EW	24"	2.11	20	D-PE-4
7 EW	A 3+94	147' LT.	"U"EW	18"	1.39	20	D-PE-4
9 EW	A 2+80	159' LT.	"ST"EW	24"	1.62	—	D-PE-4
16 EW	B 5+26	62' RT.	"ST"EW	18"	1.04	—	D-PE-4
18 EW	B 3+78	155' RT.	"U"EW	24"	2.11	20	D-PE-4
24 EW	B 1+96	125' RT.	"U"EW	18"	1.39	20	D-PE-4
32 EW	C 0+89	19' RT.	"U"EW	18"	1.39	20	D-PE-4
34 EW	B 1+03	148' LT.	"U"EW	18"	1.39	20	D-PE-4
TOTALS					12.44	120	

JUNCTION BOXES						
CODE	STATION	LOCATION	DEPTH	CLASS "A" CONC. 604-01.01 CY.	STEEL BAR REIN. 604-01.02 LB.	REMARKS
6 JB	A 3+94	66' LT.	25	0.7	7	Ⓐ
10 JB	A 1+96	104' LT.	32	1.3	16	Ⓐ
14 JB	A 1+07	25' RT.	25	0.9	11	Ⓐ
22 JB	A 0+80	25' LT.	32	1.3	16	Ⓐ
20 JB	B 3+94	45' RT.	28	0.8	8	Ⓐ
22 JB	B 3+87	26' LT.	25	0.9	11	Ⓐ
27 JB	B 1+05	26' LT.	25	0.9	11	Ⓐ
TOTALS				6.8	80	

Ⓐ SEE DETAIL SHEET NO. 20

MANHOLES						
CODE	STATION	LOCATION	DEPTH	611-02.01 EA.	611-02.03 EA.	REMARKS
2 MH	A 5+34	67' LT.	10.4'	—	—	1
12 MH	A 1+12	50' LT.	12.0'	—	—	1
17 MH	B 4+35	120' RT.	6.7'	—	1	—
33 MH	—	ADJACENT BUILDING	4.0'	1		SEE SHEET 12N
TOTALS				1	1	2

GRADING QUANTITIES		
ITEM NO. 203-01 ① ROAD AND DRAINAGE EXCAVATION (UNCL.) C.Y.	ITEM NO. 203-03 ② BORROW EXCAVATION (UNCL.) C.Y.	ITEM NO. 203-04 PLACING AND SPREADING TOPSOIL C.Y.
4,003	37,550	2,023

- ① INCLUDES 1,923 C.Y. OF TOPSOIL FROM EMBANKMENTS AND 100 C.Y. FROM EXCAVATIONS.
② BORROW EXCAVATION CALCULATED USING A 20% SHRINKAGE FACTOR.

PIPE SCHEDULE						
LOCATION		REIN. CONC. PIPE			CLASS "B BEDDING 204-07 C.Y.	GRADE %
FROM	TO	15"	18"	24"		
1 C.B	2 M.H	—	50'	—	10.6	1.00
2 M.H	3 E.W	—	—	100'	10.6	1.00
6 J.B	7 E.W		80'	—	6.4	4.625
8 C.B	10 J.B	26'	—	—	—	51.92
11 C.B	29 J.B	—	24'	—	—	2.92
9 E.W	10 J.B	—	—	102'	—	0.34
10 J.B	12 M.H	—	—	98'	—	0.36
13 C.B	14 J.B	12'	—	—	—	2.50
16 E.W	17 M.H	—	108'	—	10.8	0.55
17 M.H	18 E.W	—	—	66'	—	0.45
19 C.B	17 M.H	—	24'	—	—	2.75
20 J.B	19 C.B	—	64'	—	13.6	0.89
23 C.B	22 J.B	8'	—	—	—	1.25
25 C.B	24 E.W	—	30'	—	—	2.87
33 M.H	34 E.W	—	92'	—	—	17.12
26 C.B	27 J.B	2'	—	—	—	15.00
30 C.B	31 C.B	—	14'	—	—	0.57
31 C.B	32 E.W	—	42'	—	4.2	0.50
TOTALS		48'	528'	366'	56.2	

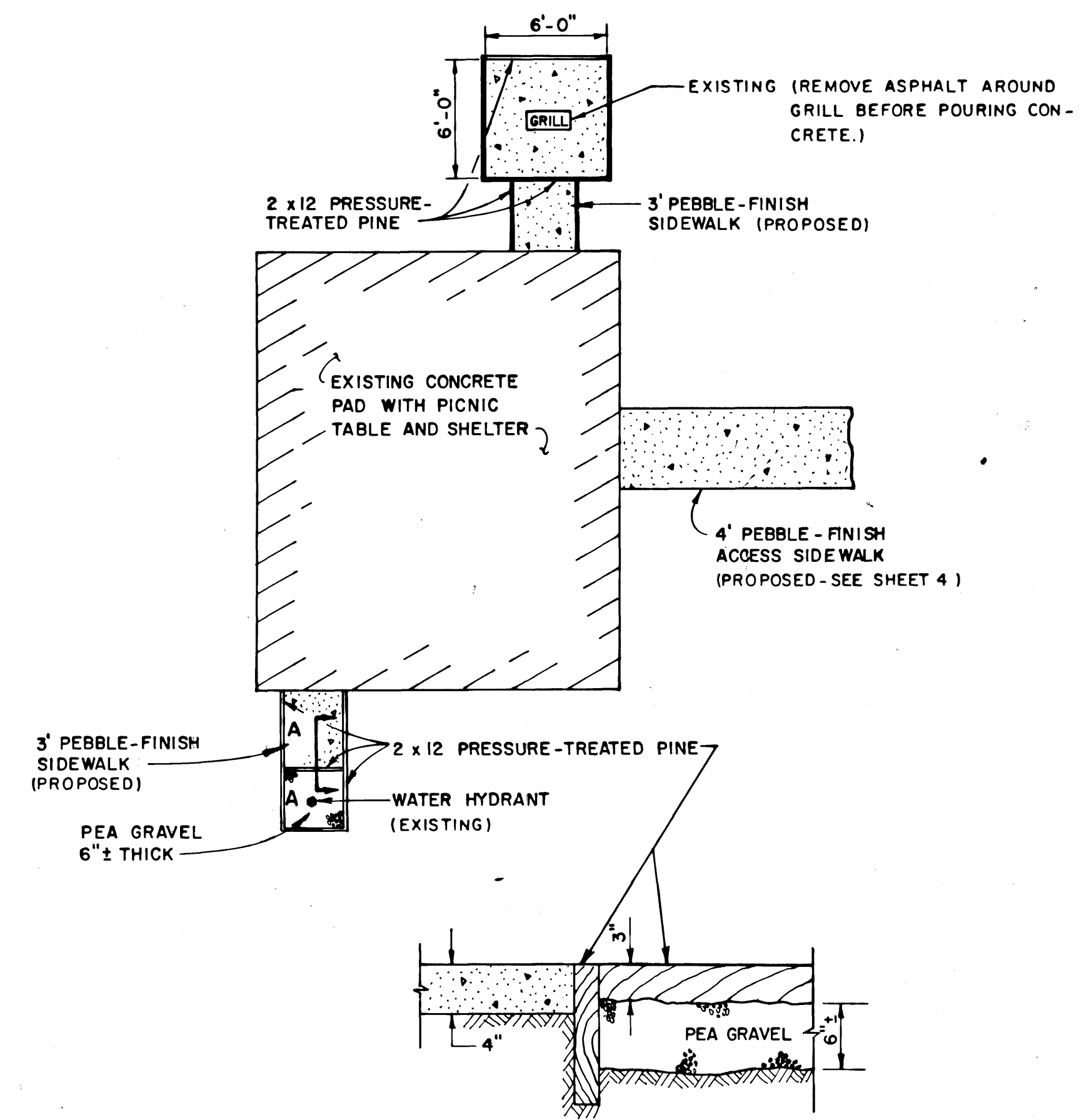
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS

TABULATED
QUANTITIES

TECHNICAL DRAWING
TENN. STATE HIGHWAYS
PLANS
DIVISION OF HIGHWAYS
PROJECT NO. 84
SHEET NO. 2D

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	84	IR-40-5(82)267	2D

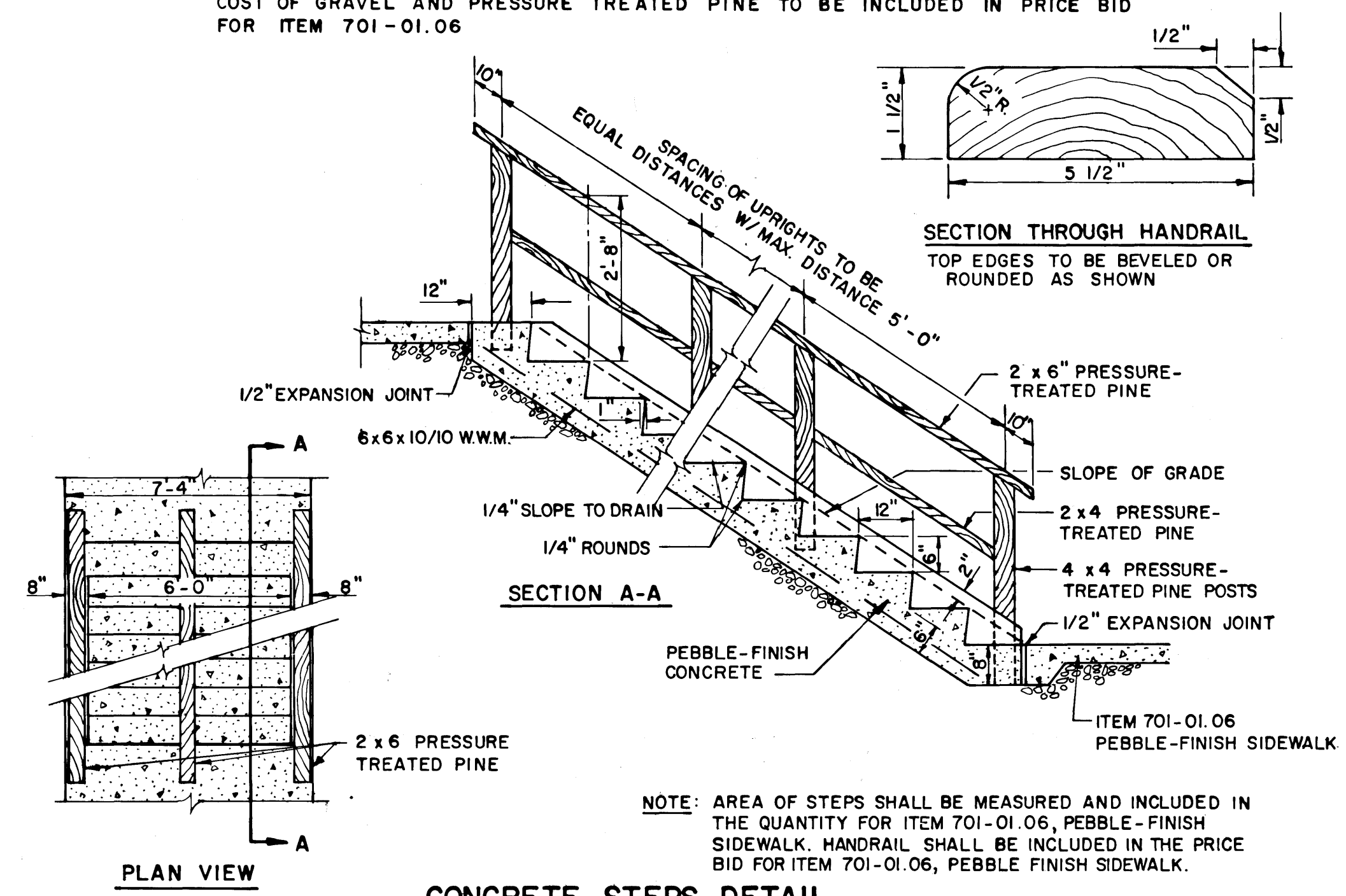
REV. 3-8-84: ADDED PARKING BARRIER. ADDED NOTE TO TYPICAL PICNIC SHELTER RENOVATION.
REV. 4-11-84: ADDED END VIEW OF PARKING BARRIER.



SECTION A-A

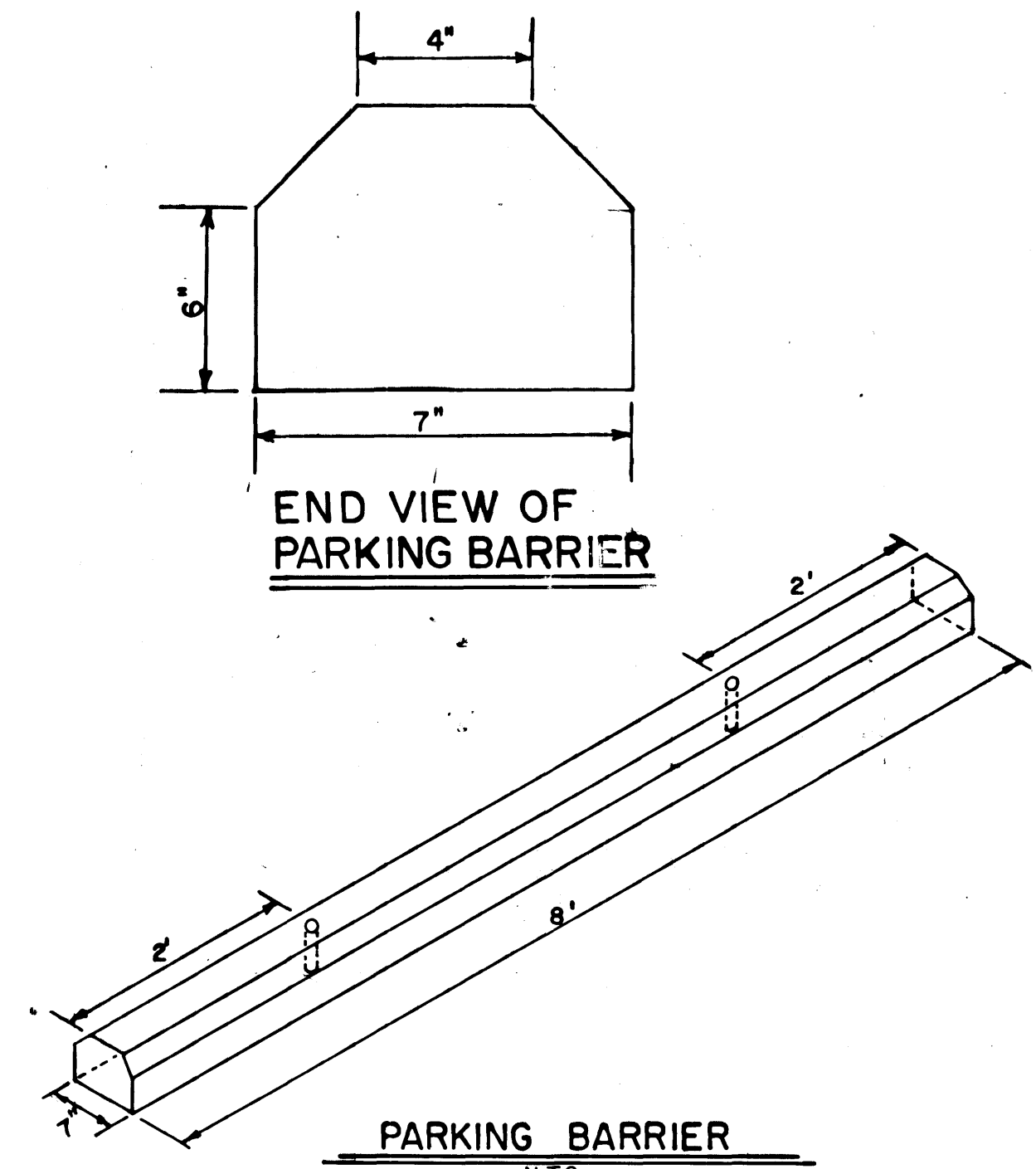
TYPICAL PICNIC SHELTER RENOVATION

N.T.S.
THIS WORK SHALL CONSIST OF PROVIDING CONNECTING SIDEWALKS TO EXISTING GRILLS AND WATER HYDRANTS TO THE SEVEN (7) PICNIC SHELTERS THAT ARE TO REMAIN, SIDEWALKS TO BE MEASURED AND PAID FOR UNDER ITEM 701-01.06. COST OF GRAVEL AND PRESSURE TREATED PINE TO BE INCLUDED IN PRICE BID FOR ITEM 701-01.06

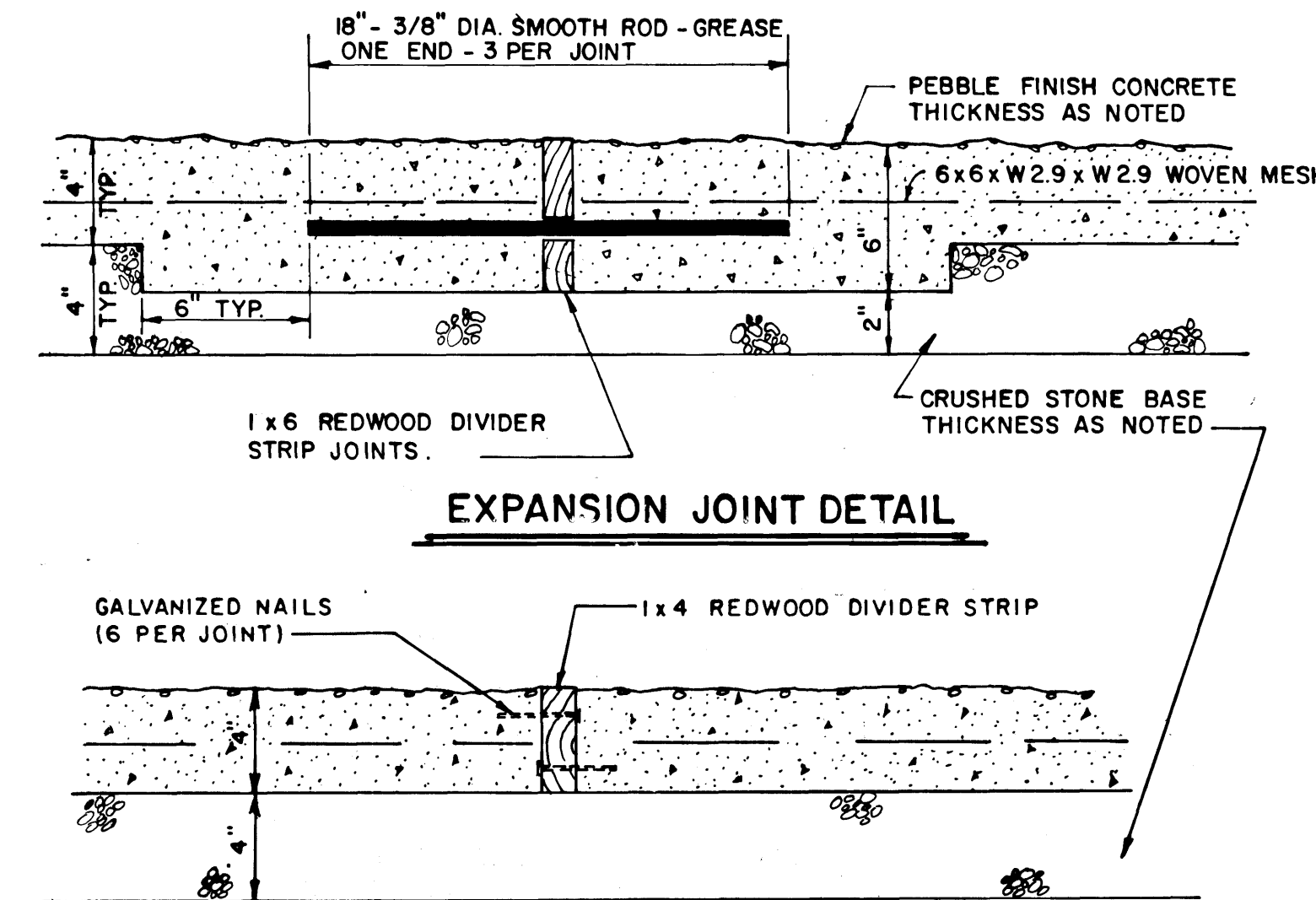


CONCRETE STEPS DETAIL

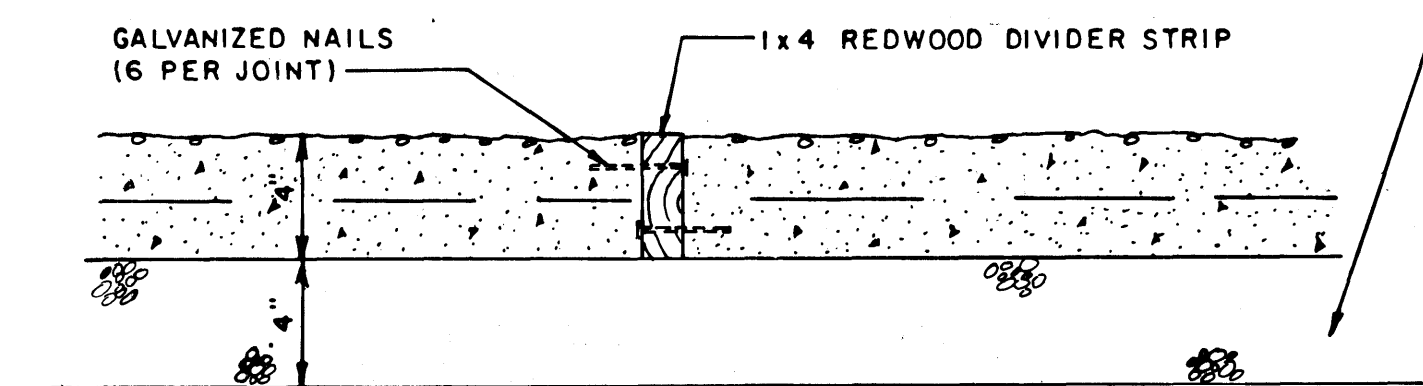
NOTE: AREA OF STEPS SHALL BE MEASURED AND INCLUDED IN THE QUANTITY FOR ITEM 701-01.06, PEBBLE-FINISH SIDEWALK. HANDRAIL SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 701-01.06, PEBBLE-FINISH SIDEWALK.



PARKING BARRIER
N.T.S.
NOTE: COST TO BE INCLUDED IN ITEM 701-01.01 CONCRETE SIDEWALK (4 INCHES)



EXPANSION JOINT DETAIL

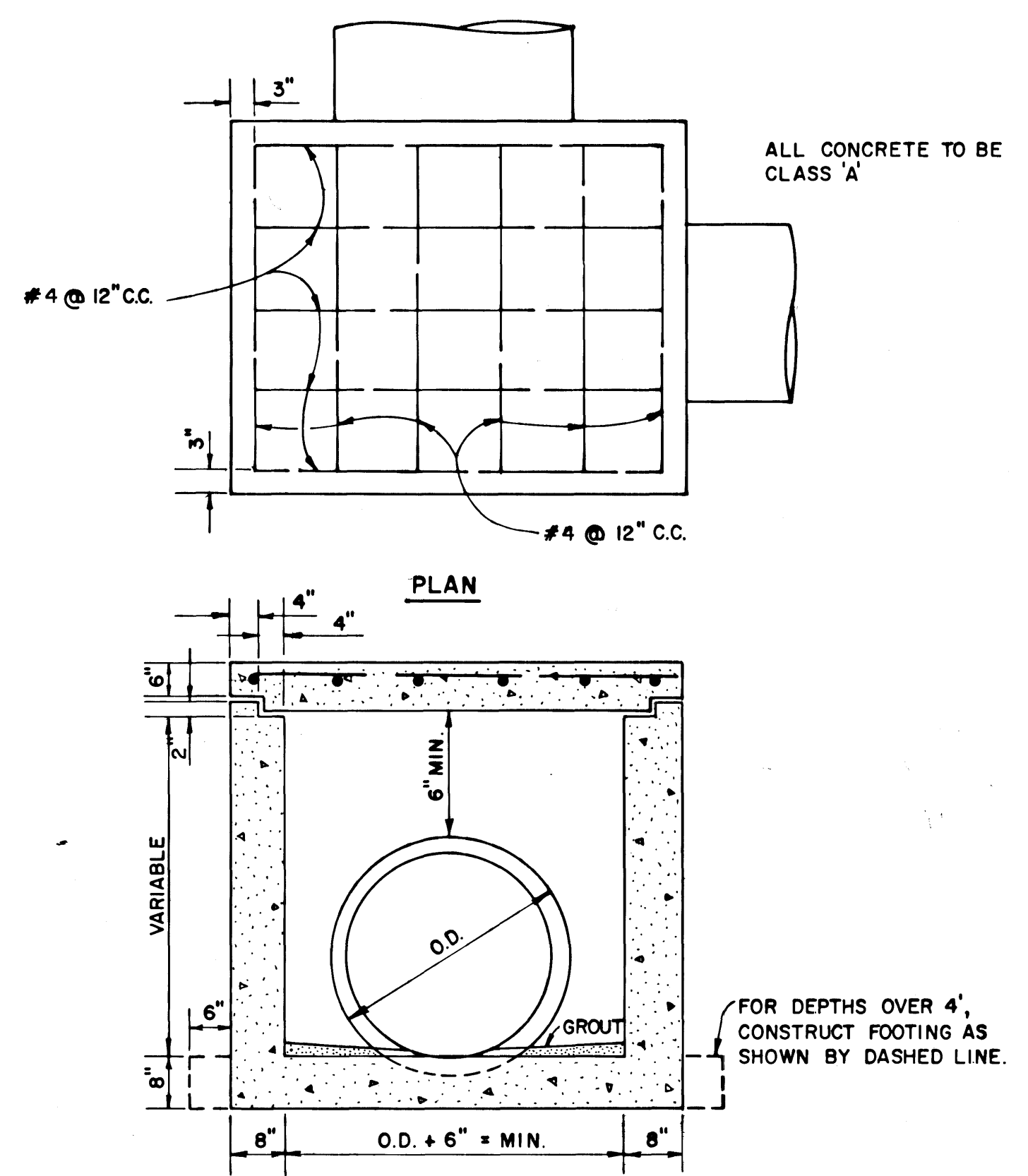


CONSTRUCTION JOINT DETAIL

PRIOR TO THE POURING OF ANY PEBBLE-FINISH WALKS, THE CONTRACTOR SHALL LAY A SAMPLE OF WALKWAY FOUR FEET WIDE BY SIX FEET LONG. THIS PANEL SHALL BE APPROVED BY THE ENGINEER BEFORE ANY PEBBLE-FINISH WALKS ARE POURED AND ALL SUCH WALKS SHALL MATCH APPROVED SAMPLE. WALKS AND PATIO SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTION 701, CEMENT CONCRETE SIDEWALKS AND DRIVEWAYS.

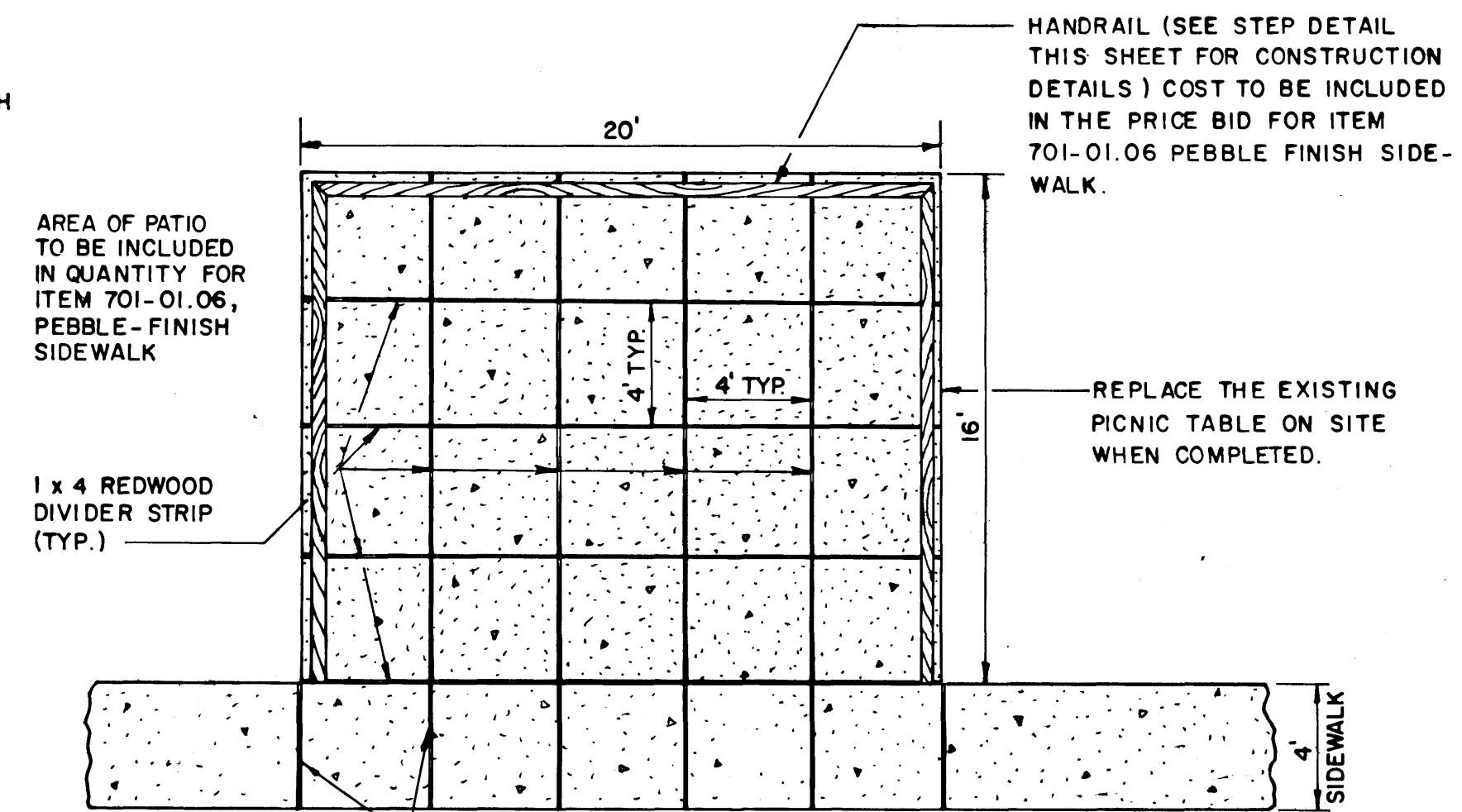
PEBBLE FINISH SIDEWALK

N.T.S.



JUNCTION BOX DETAIL

N.T.S.



PATIO DETAIL

N.T.S.

SEE PROPOSED LAYOUT SHEET NO. 4 FOR LOCATION.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS

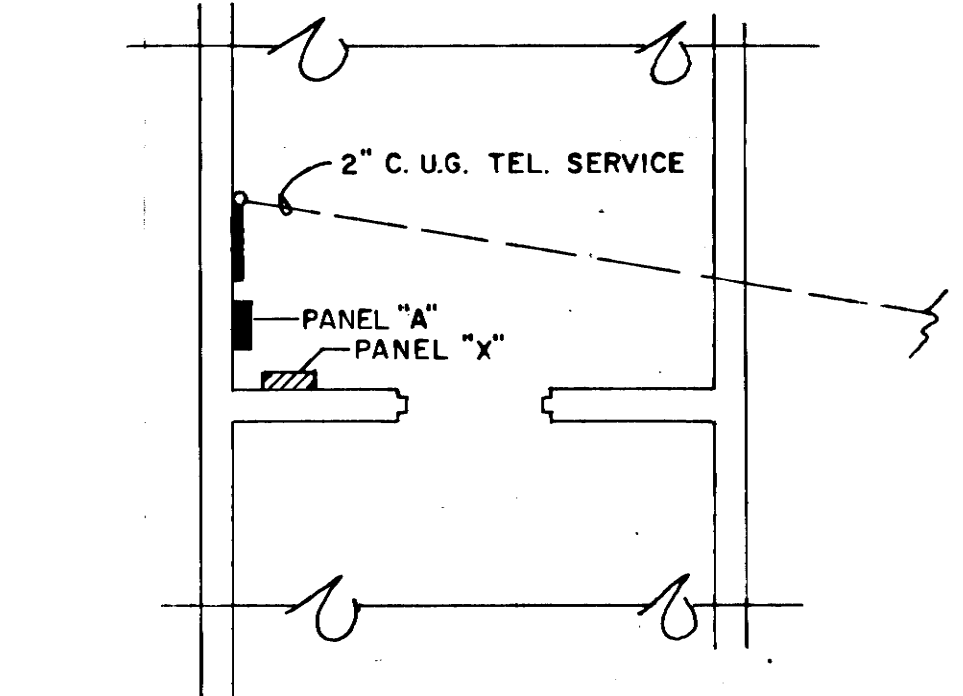
DETAILS

NOTE: Service Voltage Will Be 120/240 v-1Ø 3 Wire

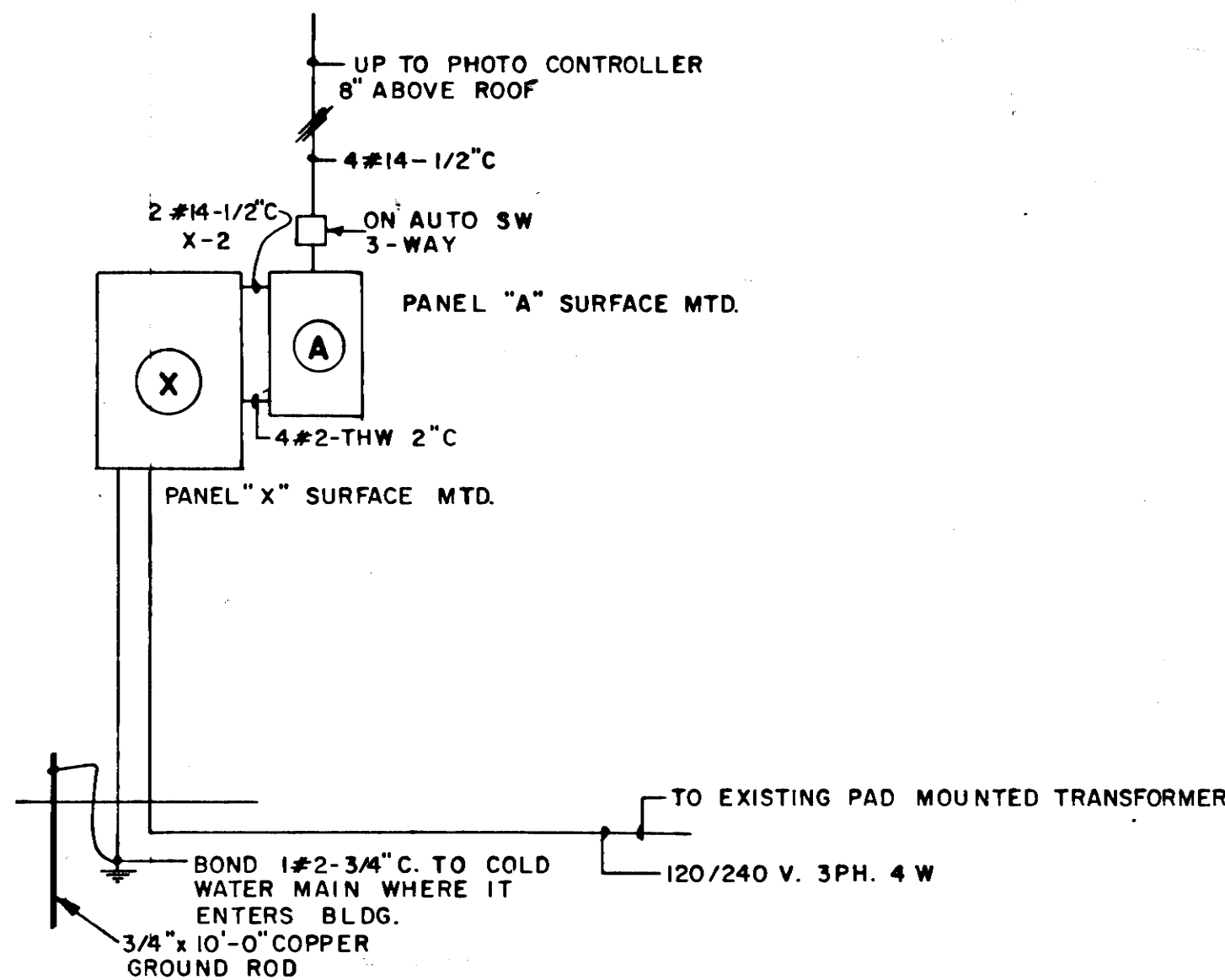
Panelboard Shall Be Grounded In Accordance
With The National Electrical Code.

PANELBOARD SCHEDULE				
MAINS RATING		VOLTAGE		PHASE
125 AMP MAIN BREAKER		120/240		1Ø-3W
CKT. NO.	NO. POLES	BKR. SETTING	REMARKS	
1	1	20 A.	REST ROOM LIGHTS	
2	1	30 A.	HAND DRYER	
3	1	30 A.	HAND DRYER	
4	1	30 A.	HAND DRYER	
5	1	30 A.	HAND DRYER	
6,8	2	40 A.	HEATER (7.5-KW-240-1Ø)	
7,9	2	40 A.	HEATER (7.5-KW-240-1Ø)	
10	1	15 A.	POWER VENTILATOR	
11	1	15 A.	POWER VENTILATOR	
12	1	20 A.	HEAT TAPE	

NOTE: PROVIDE 6, 1 POLE, 20A SPARE CIRCUIT BREAKERS.



EXISTING ELECTRICAL SERVICE EQUIPMENT
N.T.S.

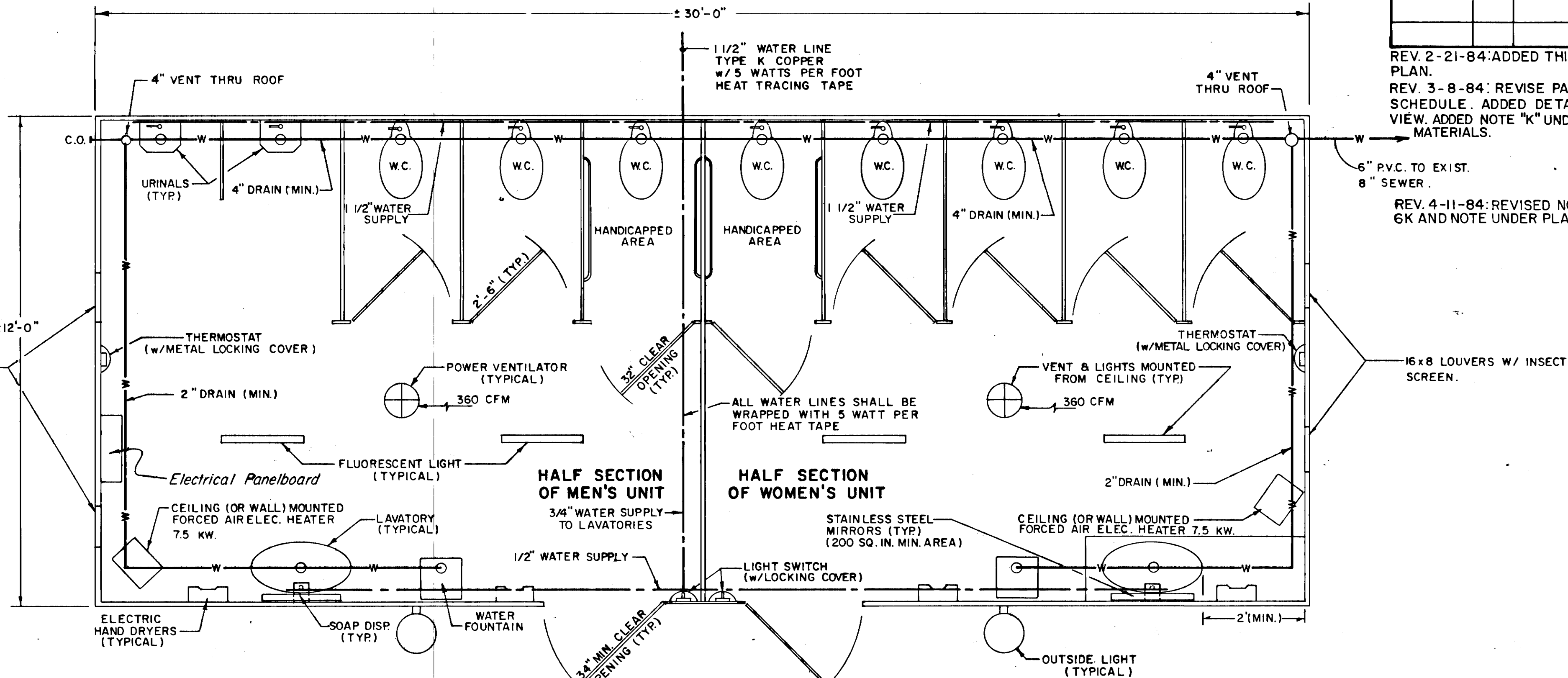


RISER DIAGRAM
N.T.S.

RELOCATED SERVICE EQUIPMENT

NOTES:

- THE CONTRACTOR SHALL RELOCATE THE EXISTING ELECTRICAL SERVICE EQUIPMENT (PANEL "X" AND PANEL "A") WITH ALL RELATED LIGHTING CONTROL EQUIPMENT FROM THE EXISTING BUILDING BEING DEMOLISHED TO THE STORAGE SHED AND RECONNECT.
- THE EXISTING FEEDER FOR THE SEWAGE TREATMENT PLANT AND THE EXISTING FEEDER FOR THE WATER TREATMENT PLANT SHALL BE REROUTED FROM THE BUILDING BEING DEMOLISHED TO THE STORAGE SHED AND RECONNECTED TO PANEL "X".
- ALL LIGHTING FEEDERS CONNECTED TO PANEL "A" IN BUILDING BEING DEMOLISHED SHALL BE REROUTED TO THE STORAGE SHED AND RECONNECTED TO PANEL "A".
- THE TELEPHONE SERVICE AND RELATED EQUIPMENT SHALL BE REMOVED FROM THE BUILDING BEING DEMOLISHED AND RECONNECTED TO PERFORM THE REQUIRED FUNCTIONS.
- THE PROGRESSIVE LOAD TRANSFER FROM THE EXISTING SOURCE OF ELECTRICAL ENERGY, WITHOUT INTERRUPTION TO ESSENTIAL SERVICES (THE REST AREA MUST REMAIN OPEN AT ALL TIMES), TO THE RELOCATED SOURCE WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE TRANSFER OF LOADS AND ALL POWER INTERRUPTIONS SHALL BE MADE ACCORDING TO SCHEDULES PREPARED BY THE CONTRACTOR AND APPROVED BY THE OWNER, OR HIS DULY AUTHORIZED REPRESENTATIVE.



PLAN VIEW

PLAN VIEW SHOWING PROPOSED FACILITY
THE CONTRACTOR SHALL SUPPLY TWO
UNITS (ONE MENS AND ONE WOMENS)

NOTES:

- DETAILS SHOWN ARE DIAGRAMMATIC AND ALTERNATE ARRANGEMENTS AND/OR FACILITIES MAY BE USED SUBJECT TO PRIOR APPROVAL BY THE ENGINEER.
- SEE SHEET II FOR LOCATION OF EXISTING WATER SUPPLY LINE.
- TEMPORARY SANITARY SEWER MAY BE PLACED ON NATURAL GROUND AND COVERED WITH 6" SOIL LAYER. THE AREA DISTURBED SHALL BE RETURNED TO ITS ORIGINAL CONTOURS, SEEDED, AND MULCHED AFTER REMOVAL OF SEWER LINE. ALL COST TO BE INCLUDED IN ITEM 801-01.
- ALL COST OF MATERIALS AND LABOR FOR CONNECTING TO EXISTING UTILITIES, DEMOLITION OF TEMPORARY UTILITY CONNECTIONS UPON COMPLETION, AND SALVAGE OF TEMPORARY POWER LINES, PIPES, ETC. SHOULD BE INCLUDED IN THE COST OF TEMPORARY PUBLIC REST ROOM FACILITIES.
- THE CONTRACTOR MAY AT HIS OPTION LEAVE ANY TEMPORARY UNDERGROUND UTILITIES THAT LIE ONE FOOT BELOW THE GROUND SURFACE AND DO NOT INTERFERE WITH THE PROPOSED CONSTRUCTION.
- MATERIALS:
 - FLUORESCENT LIGHTS SHALL BE 2 LAMP 40 WATT RAPID START TYPE.
 - ELECTRIC HEATERS SHALL BE 240 V-1Ø, FORCED AIR TYPE MOUNTED ON THE CEILING OR WALL.
 - URINAL SHALL BE STALL TYPE WITH WASHOUT ACTION. PROVIDE WITH 3/4" FLUSH VALVE AND BEEHIVE STRAINER.
 - LAVATORY SHALL BE WALL HUNG WITH 5" LEDGEBACK. PROVIDE 3/8" SUPPLY WITH STOPS, 1 1/4" P-TRAP.
 - DRINKING FOUNTAIN SHALL BE WALL HUNG PROVIDED WITH SUPPLY FITTING WITH NON-SQUIRTING BUBBLER, SELF-CLOSING CONTROL VALVE. FOUNTAIN SHALL NON-FREEZE TYPE.
 - WATER CLOSET, PROVIDE WITH 1/2" SUPPLY WITH STOP, BOLT CAPS, AND OPEN FRONT SEAT.
 - FEEDER FROM PANELBOARD IN TRAILER TO PANEL "X" RELOCATED TO STORAGE SHED SHALL BE 3#2-1#6 IN 1 1/4" PVC INSTALLED UNDERGROUND.
 - PANELBOARD SHALL BE IN ACCORDANCE WITH ABOVE SCHEDULE.
 - INSTALL TWO NEW 100A., 2 POLE CIRCUIT BREAKERS IN EXISTING PANEL "X" (ONE FOR EACH TRAILER) RELOCATED TO STORAGE SHED.
 - ELECTRICAL INSTALLATIONS IN UNITS SHALL COMPLY WITH THE LATEST REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE AND ALL STATE AND LOCAL CODES.
 - AIR CONDITIONING UNITS, 9000 BTU/HOUR THROUGH THE WALL UNIT. TWO (2) UNITS PER FACILITY. FOUR (4) TOTAL REQUIRED. FURNISH WITH WALL SLEEVE, GRILLE, AND SELF CONTAINED CONTROLS. PROVIDE 20AMP, 120 VOLT CIRCUIT, FOUR (4) EACH, SIX (6) FEET FROM THE FLOOR. COST TO BE INCLUDED IN COST FOR TEMPORARY PUBLIC REST ROOM FACILITY.

SPECIAL NOTE:

THE CONTRACTOR SHALL AT ALL TIMES ADEQUATELY INFORM THE PEDESTRIAN TRAFFIC OF CORRECT AND SAFE ON SITE PATHS TO THE TEMPORARY PUBLIC REST ROOM FACILITIES BY USE OF SIGNS, FLAGMEN, FENCES, PORTABLE BARRIERS, ETC. FINAL METHOD AND MATERIALS USED SHALL BE AS APPROVED BY THE ENGINEER. ACCESS TO THE TEMPORARY REST ROOM FACILITY SHALL BE HANDICAP ACCESSIBLE AS DEFINED IN THE FEDERAL REGISTER; VOL. 47, NO. 150; WEDNESDAY, AUGUST 4, 1982; RULES AND REGULATIONS; PART III, ARCHITECTURAL AND TRANSPORTATION BARRIERS COMPLIANCE BOARD, MINIMUM GUIDELINES AND REQUIREMENTS FOR ACCESSIBLE DESIGN. ALL COST TO BE INCLUDED IN COST OF ITEM 712-60.02 TEMPORARY PUBLIC REST ROOM FACILITIES.

* TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	1984	IR-40-5(82)267	2 F

REV. 2-21-84: ADDED THIS SHEET TO PLAN.
REV. 3-8-84: REVISE PANEL BOARD SCHEDULE. ADDED DETAILS TO PLAN-VIEW. ADDED NOTE "K" UNDER HEADING OF MATERIALS.

6" P.V.C. TO EXIST.
8" SEWER.
REV. 4-11-84: REVISED NOTES 3, 4, 6J, 6K AND NOTE UNDER PLAN VIEW.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS

TEMPORARY
PUBLIC REST ROOM
FACILITIES

FILE NO. 11
PLANS
DIVISION 166

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	84	IR-40-5(82) 267	3

REV. 2-21-84 REMOVED WATER TREATMENT BUILDING.

REV. 11-01-85: REVISED ACCESS TO HDGP. PARKING. ADDED RAMP TO PROVIDE EAST-WEST REDIRECTION OF TRAFFIC.

PL. & E.B.
 $\Delta = 200^\circ 48' 24''$ LT.
 $D = 71^\circ 37' 11''$
 $R = 80'$
 $L = 280.38'$
 $LC = 157.37'$

WATER TREATMENT BUILDING TO BE REMOVED ITEM NO. 202-06.03 SEE GENERAL NOTES SHEET 2B.

SYMBOLS

- LIGHT POST
- ELECTRICAL BOX W/ CONC. PAD
- WATER HYDRANT
- TRASH RECEPTACLE W/ CONC. PAD
- GRILL W/ 8" DIA. ASPHALT PAD
- BARRIER 8" I-BEAM POST W/ CHAIN (TO BE REMOVED)

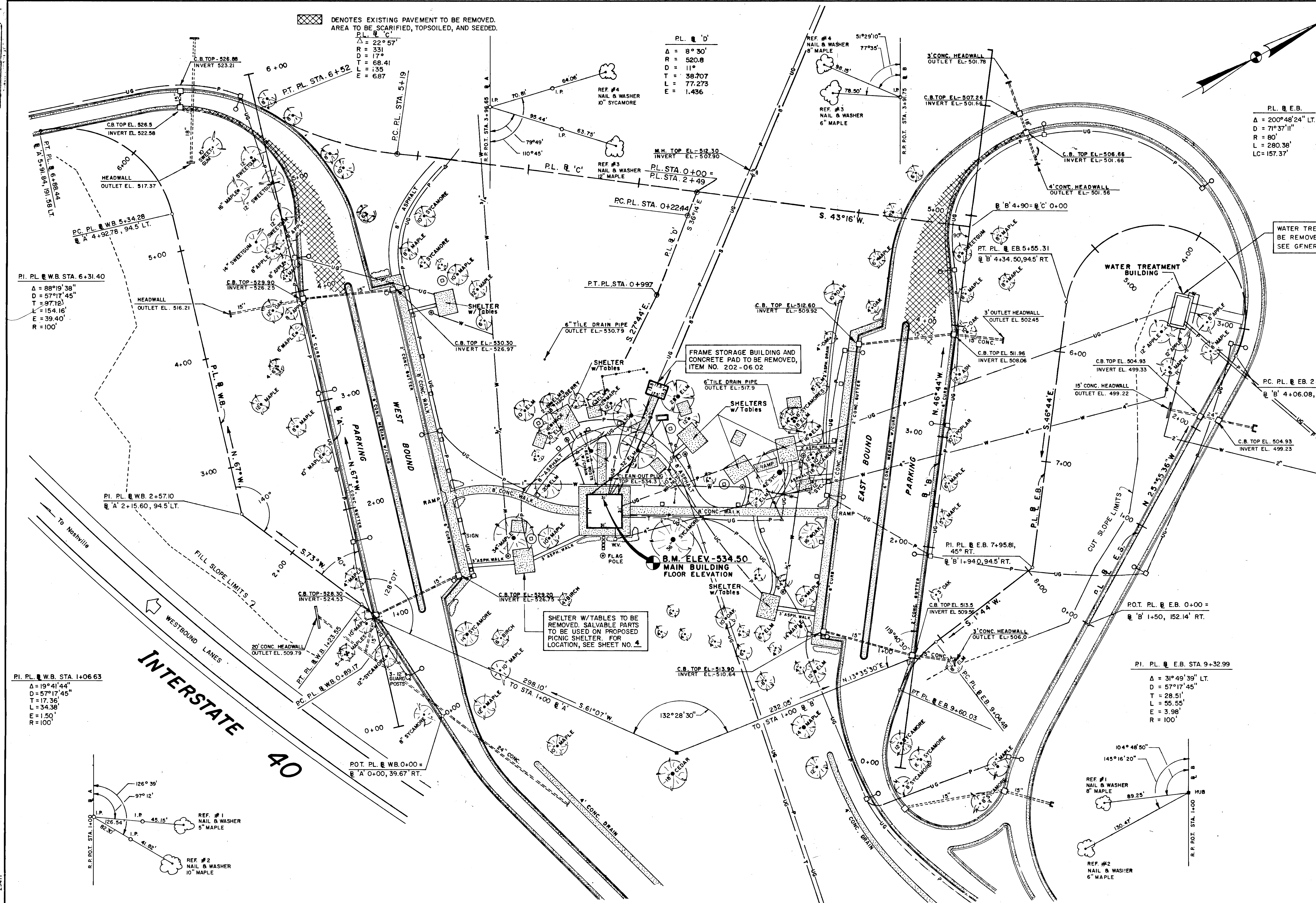
SCALE: 1" = 40'



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS

PRESENT LAYOUT

SCALE 1" = 40'



XXXXX DENOTES EXISTING PAVEMENT TO BE REMOVED.
AREA TO BE SCARIFIED, TOPSOILED, AND SEED.

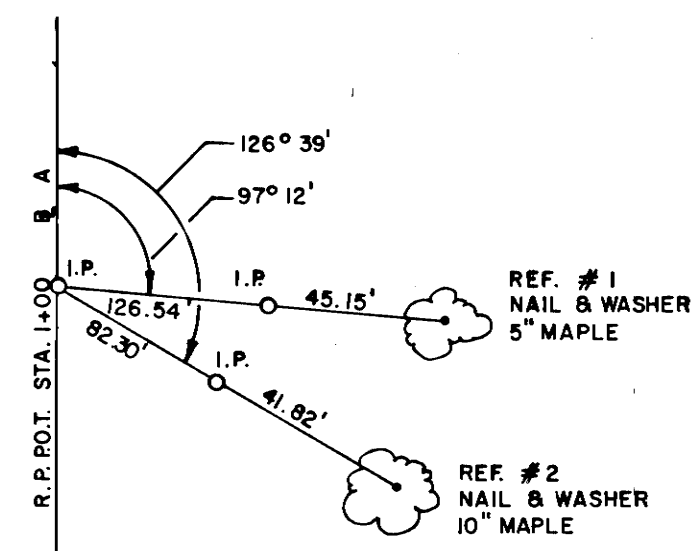
PL. & C.
 $\Delta = 22^\circ 57'$
 $R = 331'$
 $D = 17^\circ$
 $T = 68.41'$
 $L = 13.35'$
 $E = 6.87'$

PL. & D.
 $\Delta = 8^\circ 30'$
 $R = 520.8'$
 $D = 11^\circ$
 $T = 38.707'$
 $L = 77.273'$
 $E = 1.436'$

PI. PL. & W.B. STA. 6+31.40
 $\Delta = 88^\circ 19' 38''$
 $D = 57^\circ 17' 45''$
 $T = 97.12'$
 $L = 154.16'$
 $E = 39.40'$
 $R = 100'$

PI. PL. & W.B. STA. 1+06.63
 $\Delta = 19^\circ 41' 44''$
 $D = 57^\circ 17' 45''$
 $T = 17.36'$
 $L = 34.38'$
 $E = 1.50'$
 $R = 100'$

PI. PL. & E.B. STA. 9+32.99
 $\Delta = 31^\circ 49' 39''$ LT.
 $D = 57^\circ 17' 45''$
 $T = 28.51'$
 $L = 55.55'$
 $E = 3.98'$
 $R = 100'$



PIPE LOC.	FROM	TO	DIA.	LEN.	INLET INV.	OUTLET INV.
30-CB	31-CB	18"	14'	501.75	507.75	
31-CB	32-EW	18"	42'	507.75	507.5	
33-MH	34-EW	18"	92'	534.50	518.72	

DRAINAGE STRUCTURES				
CODE	STRUCTURE	TOP ELEVATION	INVERT ELEVATION	REMARKS
30	#36 C.B.	510.0	507.83	
31	#12 C.B.	510.93	507.75	
32	'U' EW		507.5	
33	MANHOLE	534.5	534.5	
34	'U' FW		518.75	
29	JUNCTION BOX	513.0	509.0	

TYPE	YEAR	PROJECT NO.
CONST.	84	IR-40-5(82)267

REV. 2-21-84: ADDED TEMPORARY FACILITIES, CHAIN LINK FENCE & NOTES.
REV. 3-8-84: ADDED PARKING BARRIER AND PERMANENT SIGNING. ADDED NOTES.

REV. 11-01-85: SIGN NO. 11 ELIMINATED. SIGN NOS. 20, 21, 21A, 22, 22A, 23, 24, 25, 26, 27, 28 & 29 ADDED.

REVISED ACCESS TO HDPC. PARKING. ADDED RAMP TO PROVIDE EAST-WEST REDIRECTION OF TRAFFIC.

DRAINAGE STRUCTURES				
CODE	STRUCTURE	TOP ELEVATION	INVERT ELEVATION	REMARKS
1	#14 CB	526.93	522.9	
2	MANHOLE	527.5	517.1	
3	'U' EW		515.1	
4	#12 CB	530.33	526.45	
5	EXIST. CB	-	-	TO BE CAPPED
6	JUNCTION BOX	518.7	516.2	
7	'U' EW		512.5	
8	#17 CB	524.2	524.2	
9	'ST' EW		510.9	
10	JUNCTION BOX	513.55	510.35	
11	#37 CB	512.7	510.5	
12	MANHOLE	521.8	509.8	
13	#12 CB	529.5	525.5	
14	JUNCTION BOX	527.7	525.2	

DRAINAGE STRUCTURES				
CODE	STRUCTURE	TOP ELEVATION	INVERT ELEVATION	REMARKS
15	EXIST. CB	-	-	TO BE CAPPED
16	'ST' EW		501.30	
17	MANHOLE	507.2	500.5	
18	'U' EW		500.2	
19	#14 C.B.	508.66	501.66	
20	JUNCTION BOX	505.27	502.47	
21	EXIST. CB	-	-	TO BE CAPPED
22	JUNCTION BOX	511.12	508.62	
23	#12 CB	512.72	508.72	
24	'U' EW		502.0	
25	#12 CB	511.96	502.86	
26	#12 CB	514.30	510.30	
27	JUNCTION BOX	512.40	509.90	
28	EXIST. CB	-	-	TO BE CAPPED

PIPE LOC.	FROM	TO	DIA.	LEN.	INLET INV.	OUTLET INV.
1-CB	2-MH	18"	50'	522.9	522.4	
2-MH	3-EW	24"	100'	517.1	516.1	
6-JB	7-EW	18"	80'	516.1	512.5	
8-CB	10-JB	15"	26'	524.2	510.7	
11-CB	29-JB	18"	24'	510.5	509.8	
9-EW	10-JB	24"	102'	510.9	510.55	
10-JB	12-MH	24"	98'	510.35	510.0	
13-CB	14-JB	15"	12'	525.5	525.2	

PIPE LOC.	FROM	TO	DIA.	LEN.	INLET INV.	OUTLET INV.
16-EW	17-MH	18"	108'	501.3	500.7	
17-MH	18-EW	24"	66'	500.5	500.2	
19-CB	17-MH	18"	24'	501.66	501.0	
20-JB	19-CB	18"	64'	502.47	501.9	
25-CB	24-EW	18"	30'	502.86	502.0	
26-CB	27-JB	15"	2'	510.3	510.0	
23-JB	22-JB	15"	8'	511.72	508.62	

LEGEND	
◆	EXISTING WATER HYDRANT, TO REMAIN
△	EXISTING GRILL, TO REMAIN
□	PROPOSED GARBAGE RECEPTACLES
○	PROPOSED WATER HYDRANT
■	CONCRETE PAVEMENT
▨	ASPHALT PAVEMENT
♿	HANDICAP PARKING STALL (DO NOT PAINT SYMBOL)

NOTES: PROPOSED SIDEWALKS ITEM 701-01-01 ARE SHOWN ON LAYOUT, REMAINING WALKS SHALL BE ITEM 701-01-06

FOR TEMPORARY REST ROOM FACILITIES SEE SHEETS 2F, 9-9C.

EXISTING TREES 24" OR LARGER ARE SHOWN ON THIS SHEET FOR INFORMATION. FOR LOCATION OF ALL TREES, SEE PRESENT LAYOUT.

FOR TYPICAL DETAILS OF PICNIC SHELTER RENOVATIONS, SEE SHEET 2E.

EXISTING WALKS (ASPHALT AND CONCRETE) NOT SHOWN TO REMAIN SHALL BE REMOVED. DISTURBED AREA TO BE BACKFILLED, TOPSOILED AND SEED TO ORIGINAL GRADE. COST TO BE INCLUDED IN OTHER ITEMS OF CONSTRUCTION.

SEE SHEET 5 FOR EARTHWORK QUANTITIES.

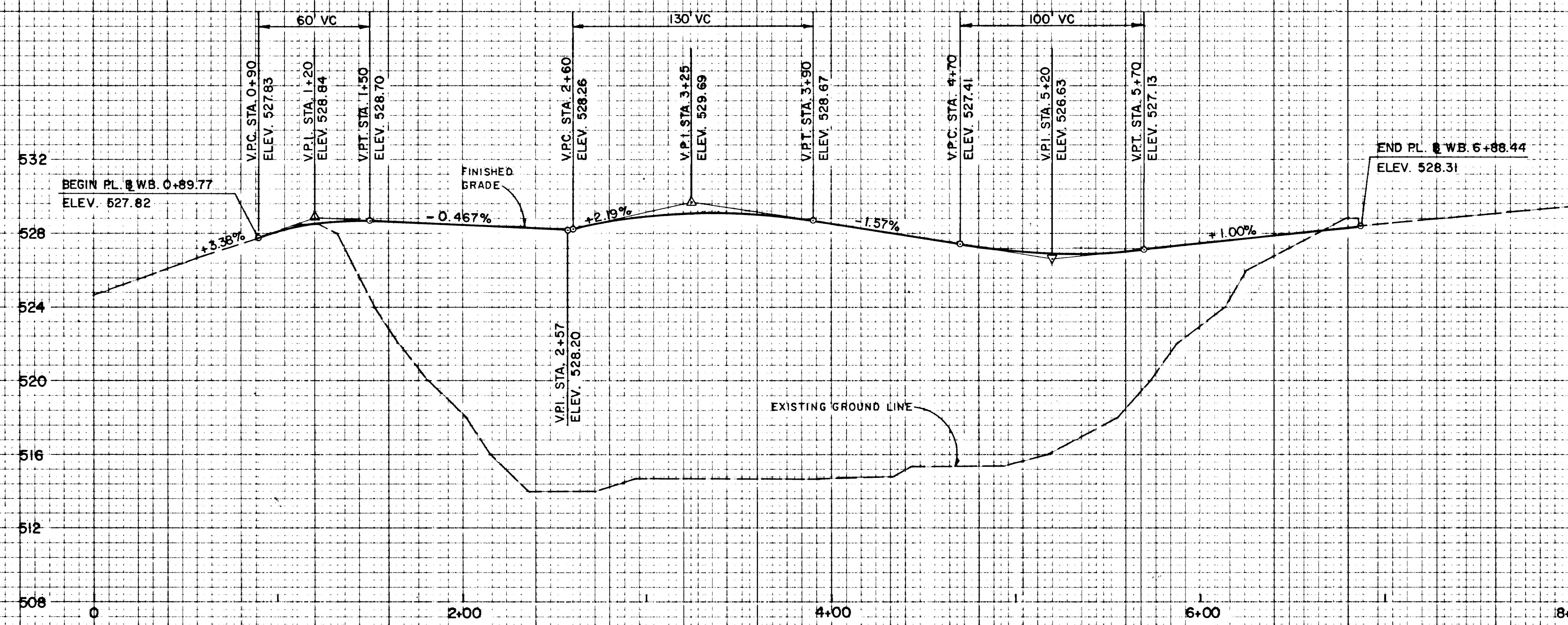
THE BUILDING SITE MUST BE SECURED BY THE CONTRACTOR AT ALL TIMES

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS

PROPOSED LAYOUT

SCALE 1"=40'

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	84	IR-40-5(82)267	5



PROFILE - P.L. BASELINE 'A' WESTBOUND

EARTHWORK (COMPLETE SITE)

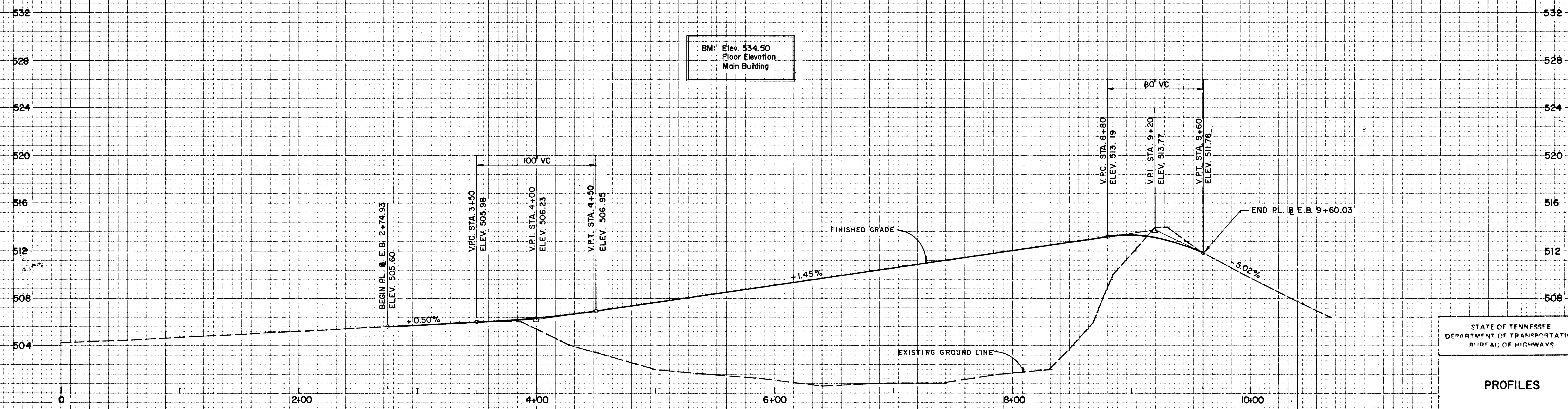
EXCAVATION (UNCL.) 4,003 C.Y.* INCLUDES 1,923 C.Y. TOPSOIL FROM EMBANKMENT AREAS AND 100 CY FROM EXCAVATION AREA.

EMBANKMENT 33,041 C.Y.** INCLUDES 1,923 C.Y. TO REPLACE STRIPPED TOPSOIL

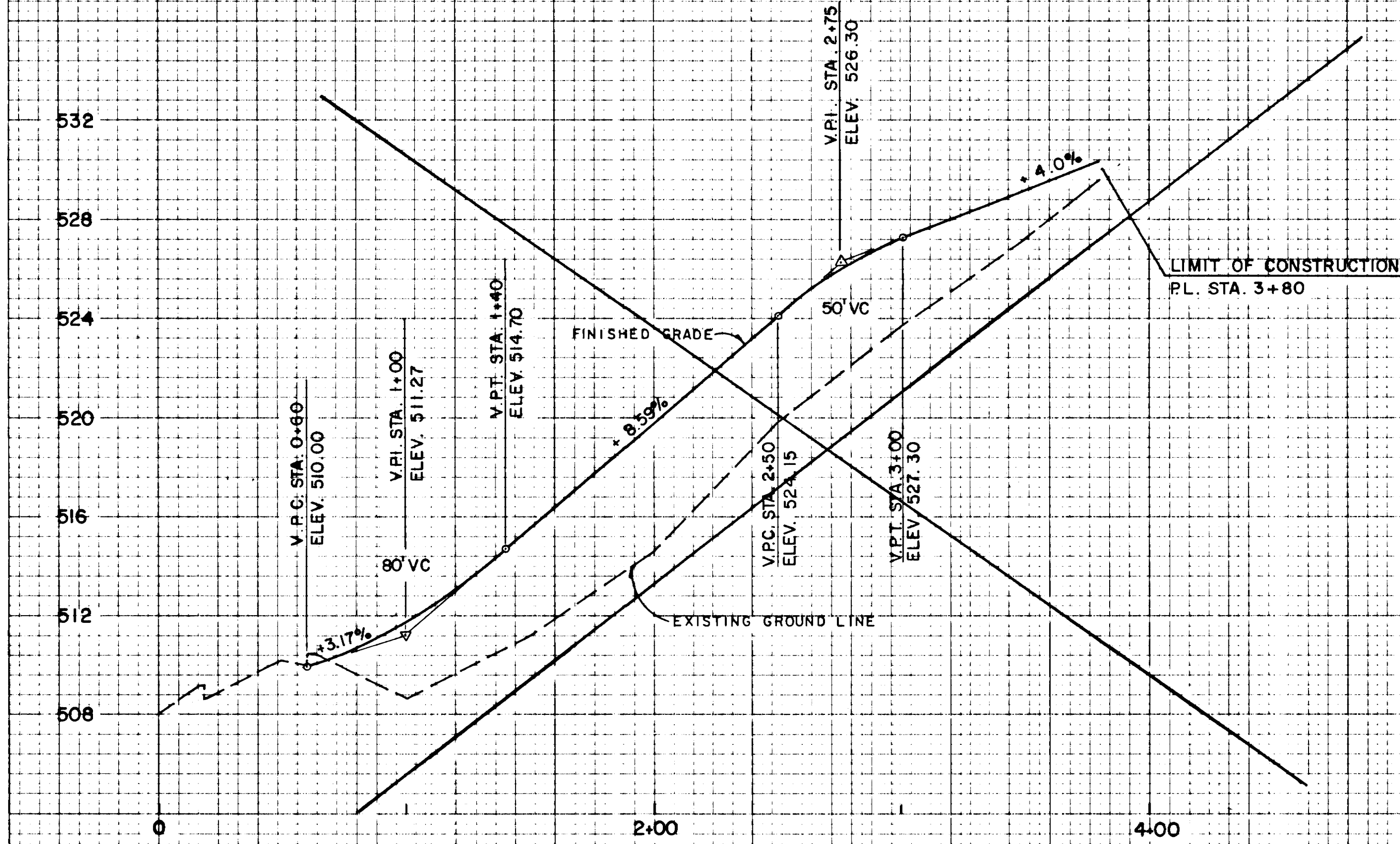
SHR. = 20%

BORROW EXCAVATION 37,550 C.Y. FOR BALANCE

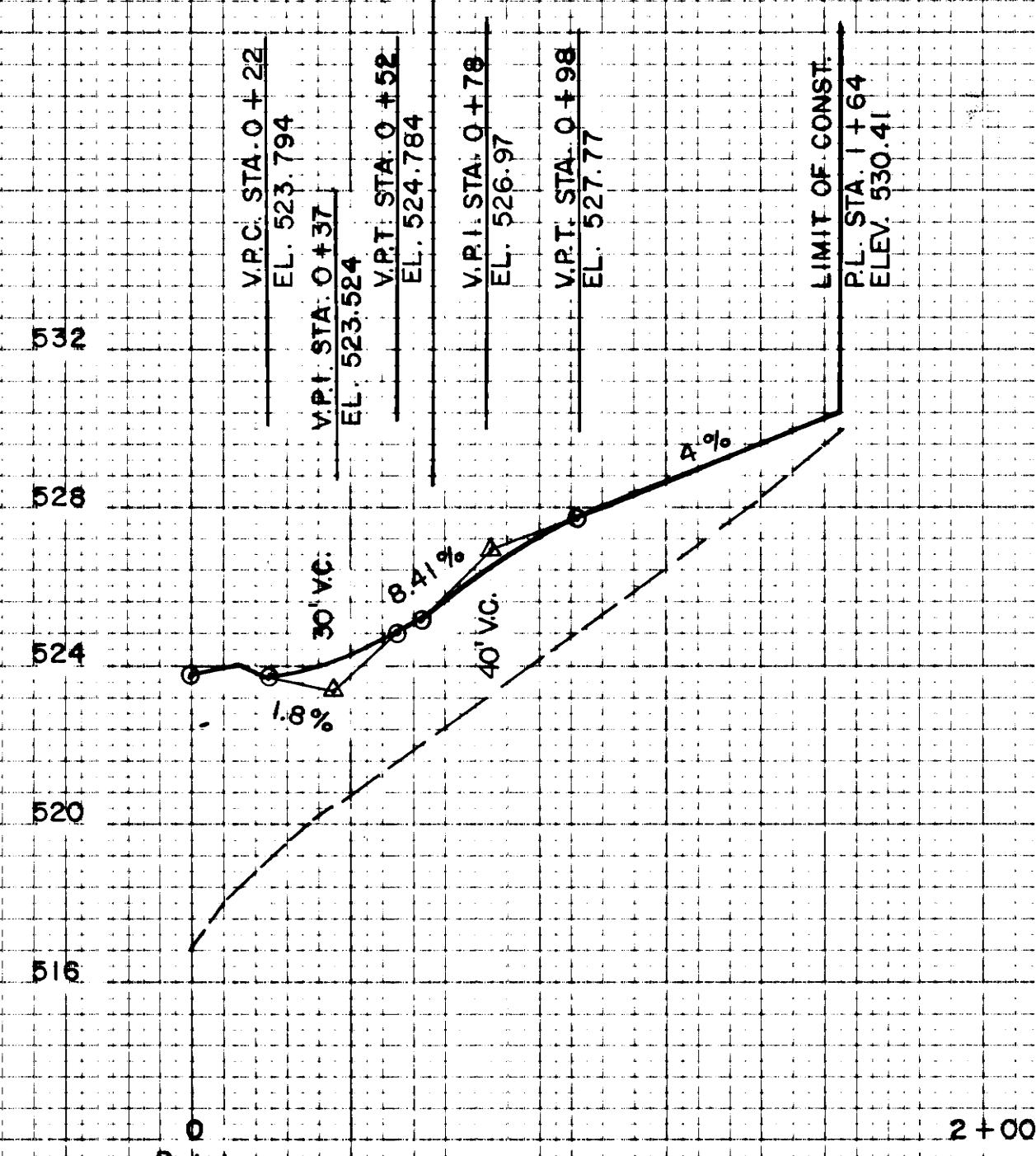
- * INCLUDES 500 CY TOPSOIL FROM BUILDING AREA NOT SHOWN ON CROSS-SECTIONS.
- ** INCLUDES 1,116 CY. FOR BUILDING AREA NOT SHOWN ON CROSS-SECTIONS.



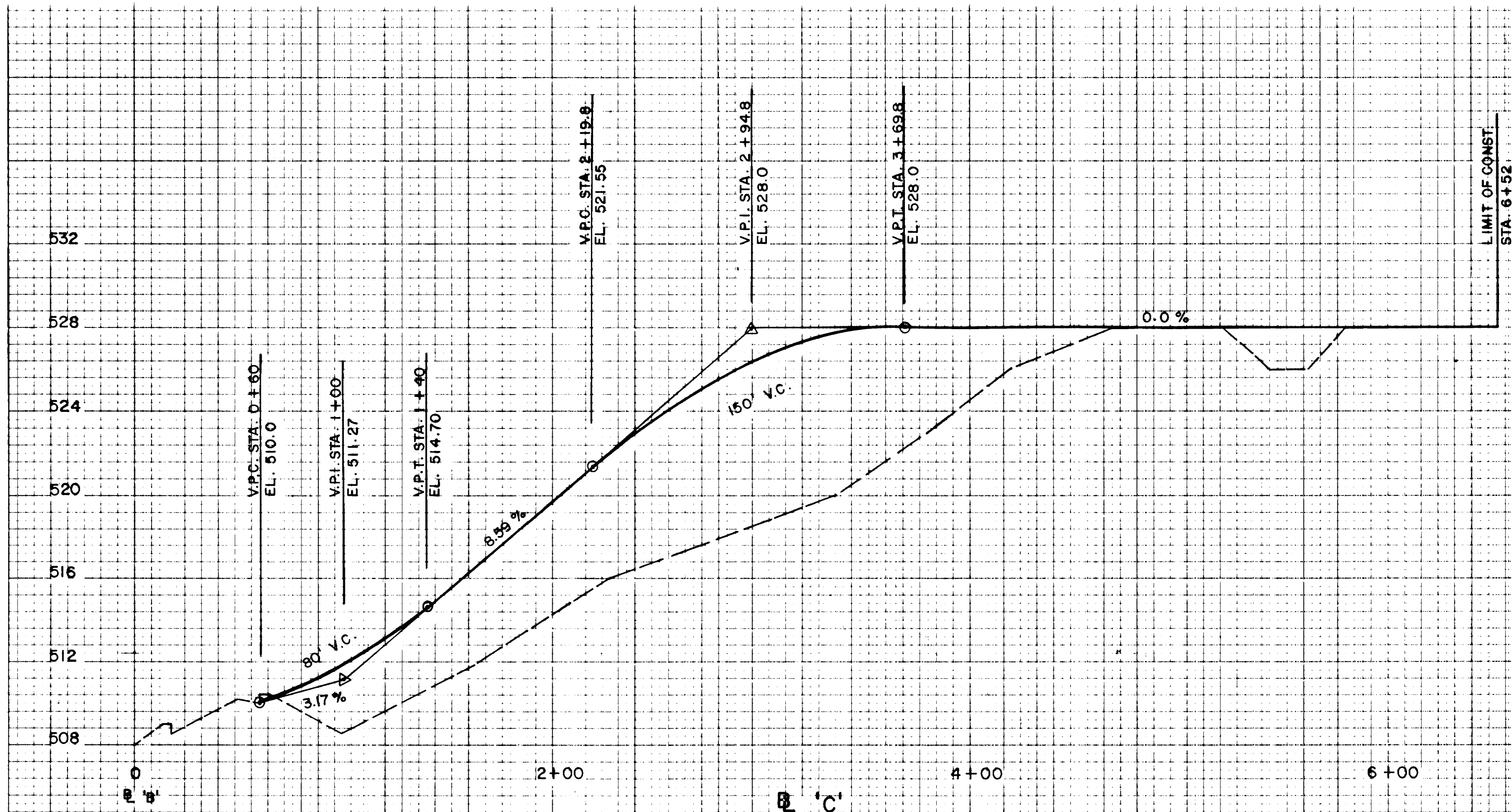
PROFILE - P.L. BASELINE 'B' EASTBOUND



PROFILE - PL. 'C' HANDICAP PARKING EASTBOUND



PROFILE - PL. 'D' HDCP. PKNG. ACCESS



PROFILE - PL. 'C'

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	84	IR-40-5(82)267	5A

REV. 11-1-85: REVISED BASELINE 'C' AND HDCP. PARKING ACCESS.

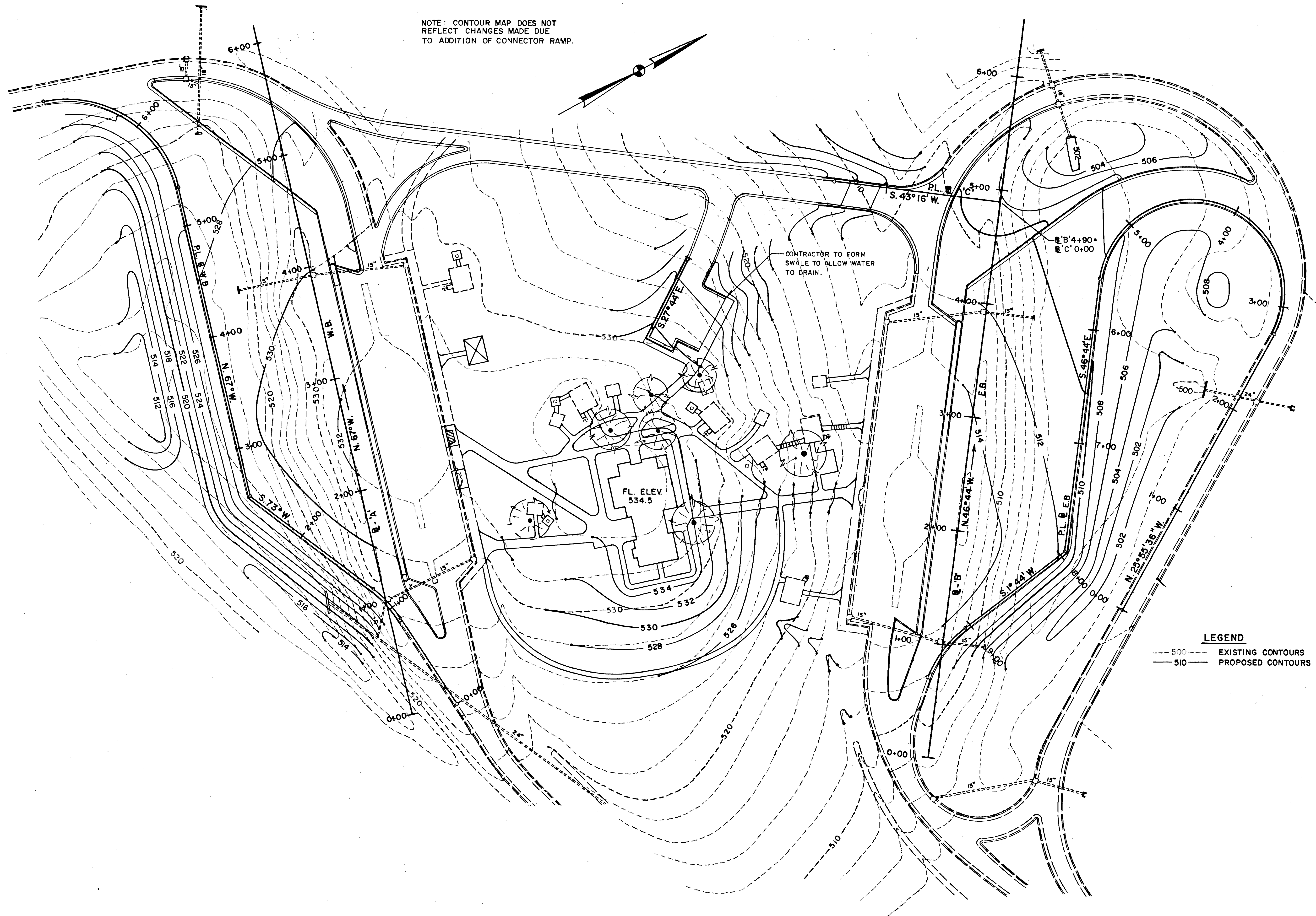
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS

PROFILES

SCALE: 1" = 40' HOR.
1" = 4' VERT.

REV. 2-21-84 DELETED WATER TREAT-
MENT BUILDING.

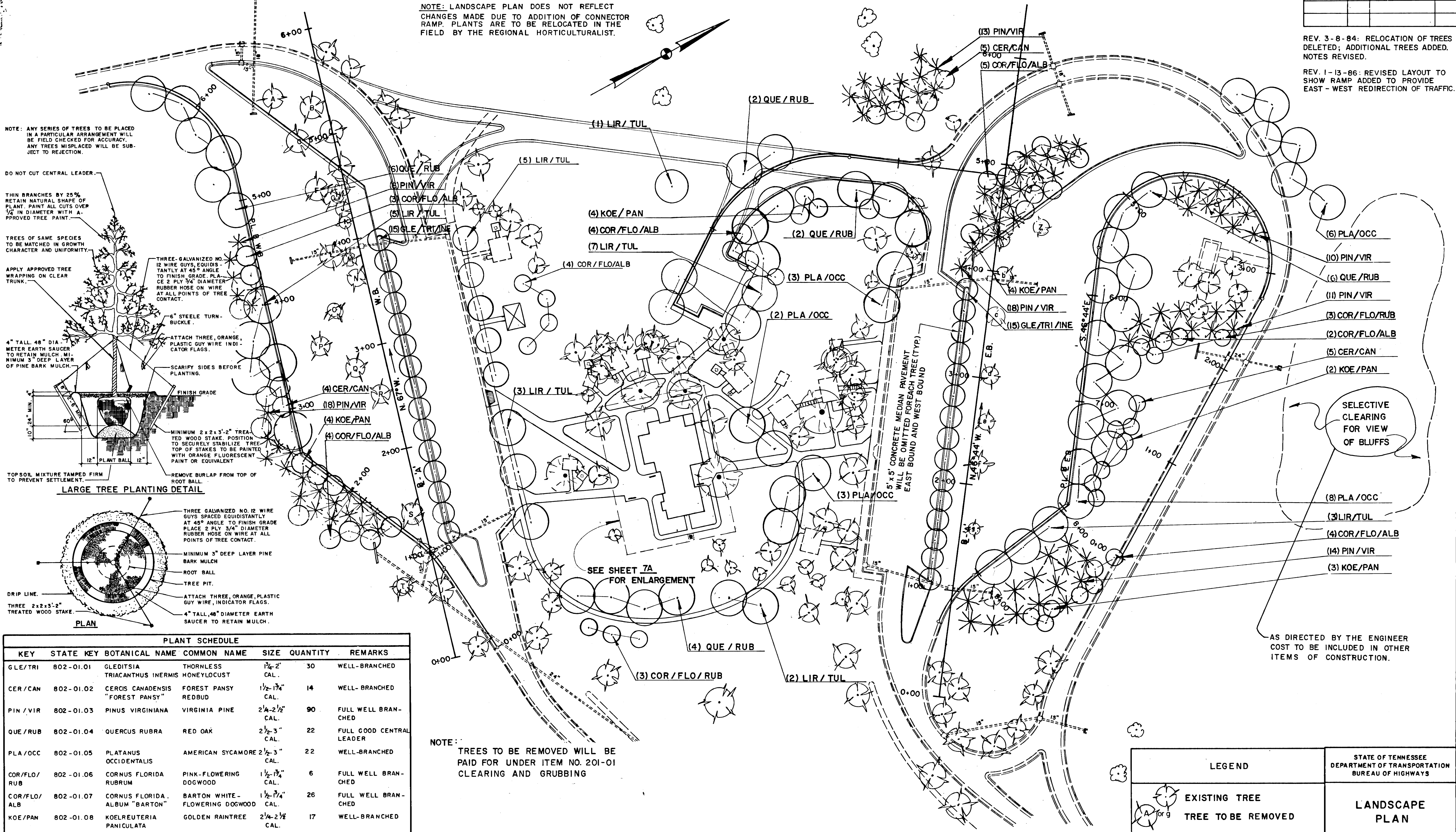
REV. 1-13-85: REVISED LAYOUT TO
SHOW RAMP ADDED TO PROVIDE
EAST - WEST REDIRECTION OF TRAFFIC.



TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	84	IR-40-5(82)267	7

REV. 3-8-84: RELOCATION OF TREES DELETED; ADDITIONAL TREES ADDED. NOTES REVISED.

REV. 1-13-86: REVISED LAYOUT TO SHOW RAMP ADDED TO PROVIDE EAST - WEST REDIRECTION OF TRAFFIC.

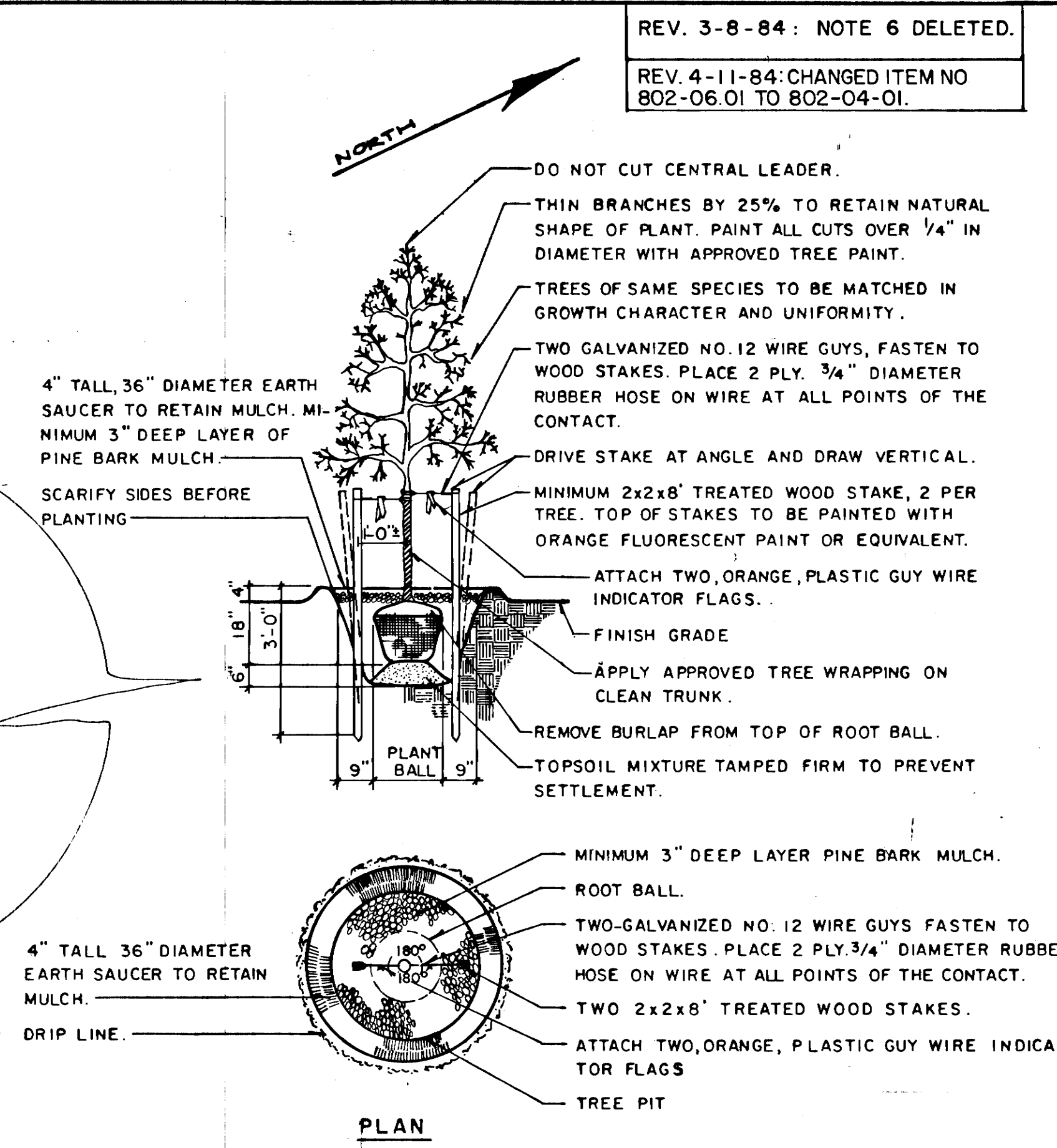
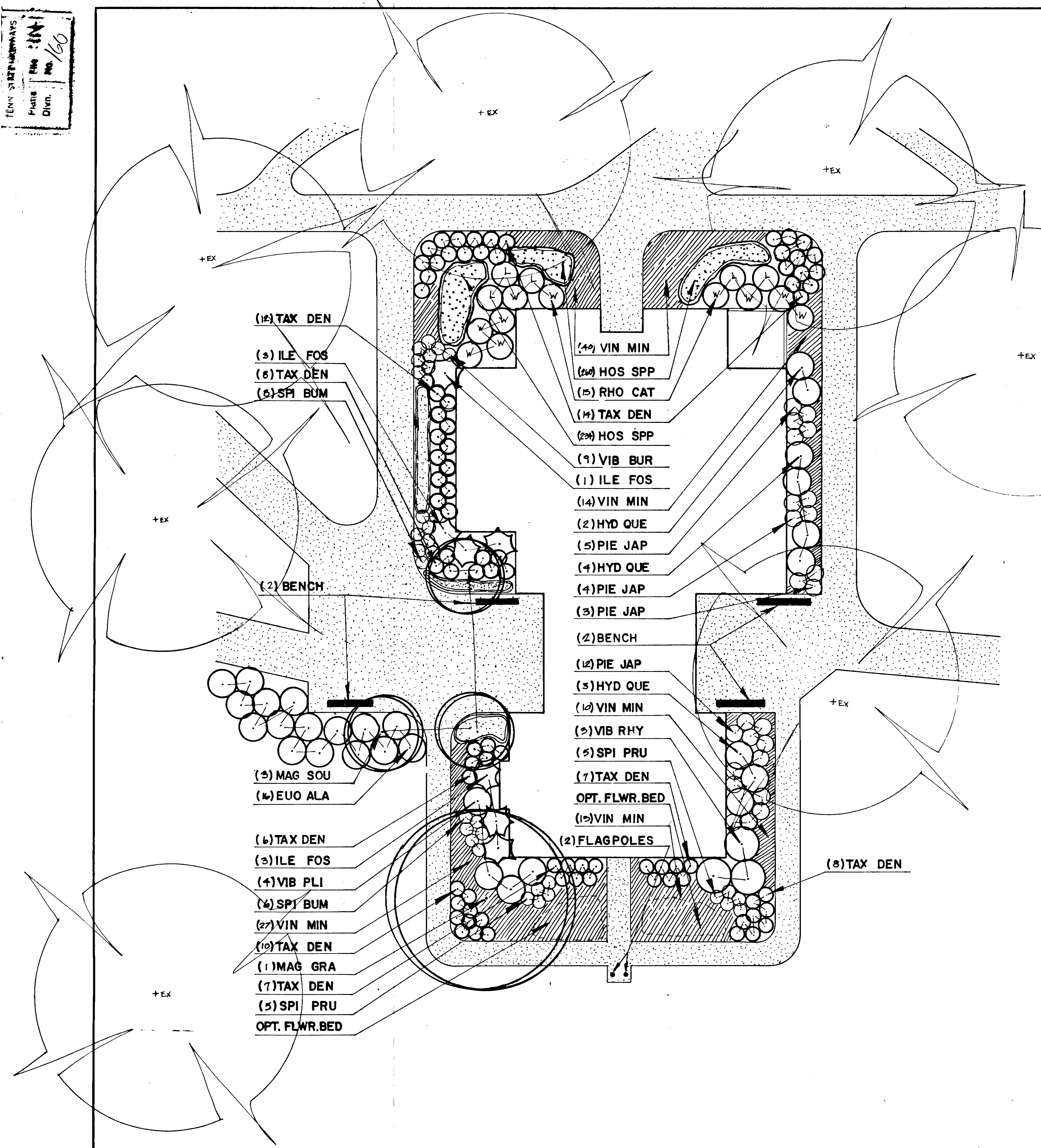


PLANT SCHEDULE						
KEY	STATE KEY	BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY	REMARKS
GLE/TRI	802-01.01	GLEDITSIA TRIACANTHUS INERMIS	THORNLESS HONEYLOCUST	1 1/2-2' CAL.	30	WELL-BRANCHED
CER/CAN	802-01.02	CERCIS CANADENSIS "FOREST PANSY"	FOREST PANSY REDBUD	1 1/2-1 3/4" CAL.	14	WELL-BRANCHED
PIN/VIR	802-01.03	PINUS VIRGINIANA	VIRGINIA PINE	2 1/4-2 1/2" CAL.	90	FULL WELL BRANCHED
QUE/RUB	802-01.04	QUERCUS RUBRA	RED OAK	2 1/2-3" CAL.	22	FULL GOOD CENTRAL LEADER
PLA/OCC	802-01.05	PLATANUS OCCIDENTALIS	AMERICAN SYCAMORE	2 1/2-3" CAL.	22	WELL-BRANCHED
COR/FLO/RUB	802-01.06	CORNUS FLORIDA RUBRUM	PINK-FLOWERING DOGWOOD	1 1/2-1 3/4" CAL.	6	FULL WELL BRANCHED
COR/FLO/ALB	802-01.07	CORNUS FLORIDA ALBUM "BARTON"	BARTON WHITE-FLOWERING DOGWOOD	1 1/2-1 3/4" CAL.	26	FULL WELL BRANCHED
KOE/PAN	802-01.08	KOELREUTERIA PANICULATA	GOLDEN RAINTREE	2 1/4-2 1/2" CAL.	17	WELL-BRANCHED
LIR/TUL	802-01.09	LILIODENDRON TULIPIFERA	TULIP OR YELLOW POPLAR	2 1/2-3" CAL.	26	FULL,GOOD CENTRAL LEADER.

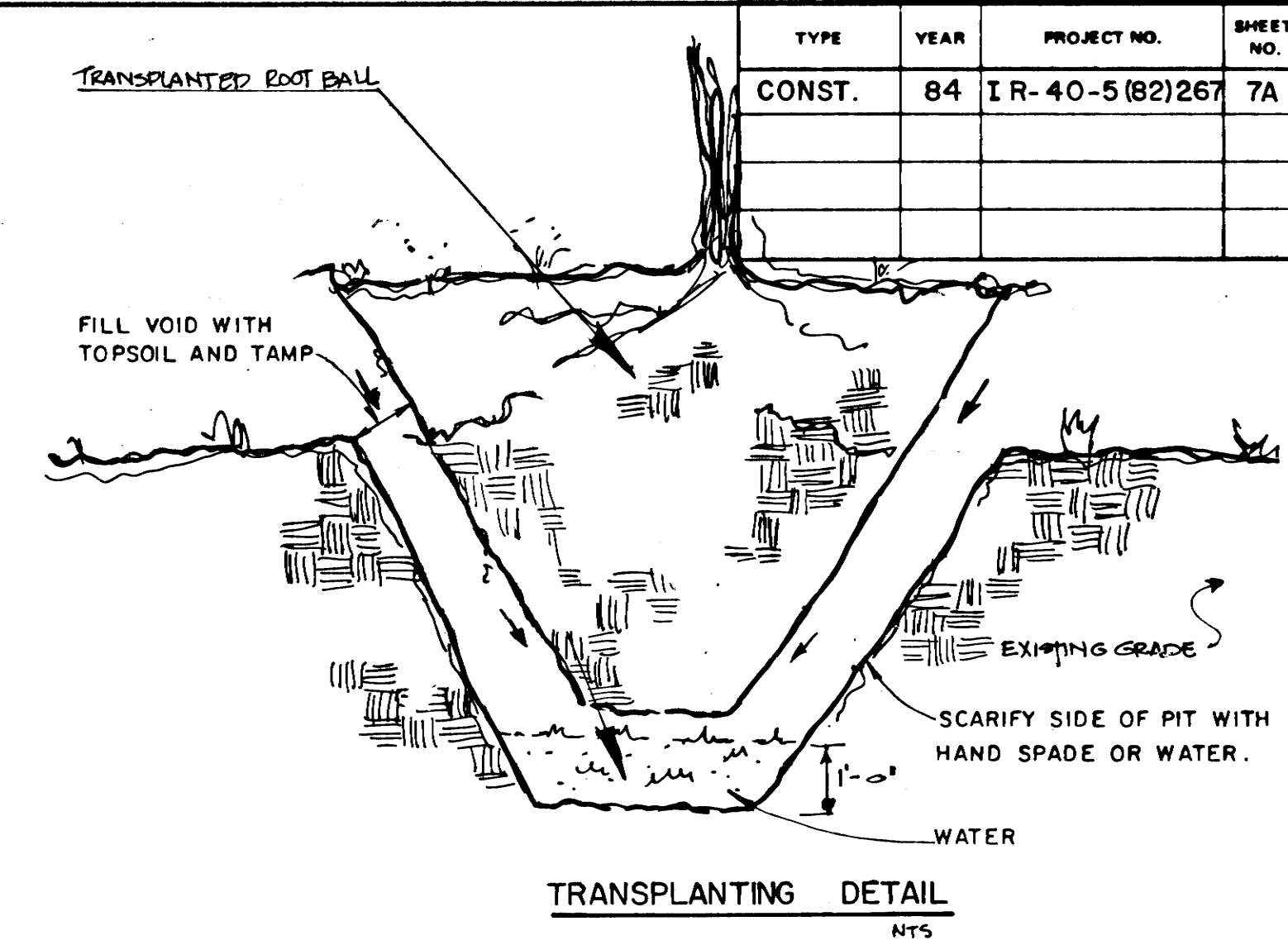
NOTE: TREES TO BE REMOVED WILL BE PAID FOR UNDER ITEM NO. 201-01 CLEARING AND GRUBBING

LEGEND		STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION BUREAU OF HIGHWAYS
	EXISTING TREE	LANDSCAPE PLAN SCALE 1"=40'
	TREE TO BE REMOVED	
	NEW TREE	

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	84	I R- 40-5 (82) 267	7A



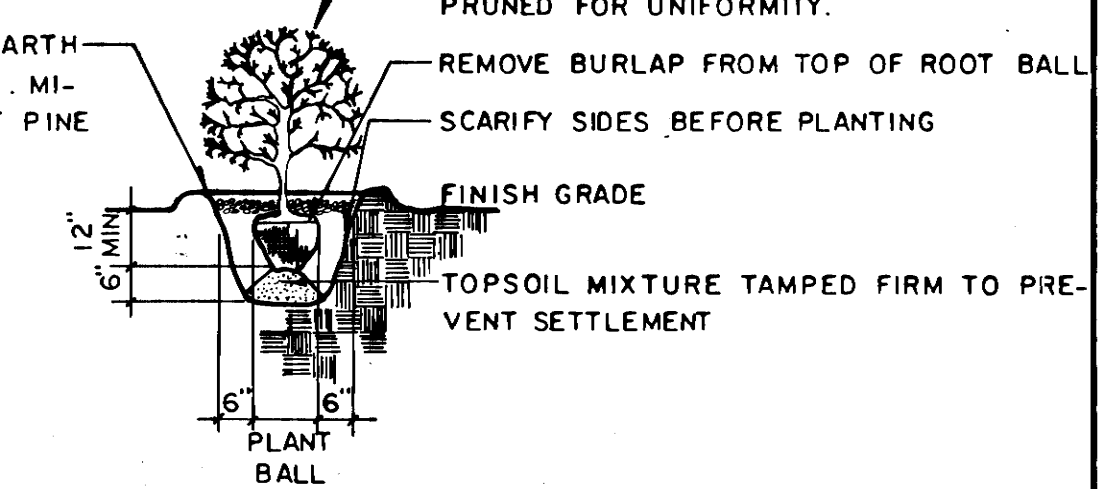
SMALL TREE PLANTING DETAIL
N.T.S.



TRANSPLANTING DETAIL
NTS

NOTE: CONTAINER GROWN PLANT
MATERIAL MAY BE SUBSTITUTED
FOR BURLAP MATERIAL.

PLANT MATERIAL SHALL NOT BE PRUNED PRIOR INSTALLATION; AFTER PLANTS HAVE BEEN INSTALLED, EACH PLANT SHALL BE PRUNED FOR UNIFORMITY.



TYPICAL SHRUB PLANTING DETAIL
N.T.S.

PLANT SCHEDULE

PLANT SCHEDULE						
KEY	STATE KEY	BOTANICAL NAME	COMMON NAME	SIZE	QUAN.	NOTES
MAG/SOU	802-01.10	MAGNOLIA SOULANGIANA	TULIP MAGNOLIA	1-1 1/2" CAL.	3	SPECIMEN QUALITY
MAG/GRA	802-01.11	MAGNOLIA GRANDIFLORA	SOUTHERN MAGNOLIA	2-2 1/2" CAL.	1	SPECIMEN QUALITY
VIB/BUR	802-03.01	VIBURNUM BURKWOODII 'CHESAPEAKE'	SHADOW'S CHESAPEAKE VIBURNUM	36" B/B	9	WELL-BRANCHED, ROUND FORM
VIB/PLI	802-03.02	VIBURNUM PLICATUM 'MARIESI'	DOUBLEFILE VIBURNUM	36" B/B	4	WELL-BRANCHED
VIB/RHY	802-03.03	VIBURNUM RHYTIDOPHYLLUM	LEATHERLEAF VIBURNUM	36" B/B	3	WELL-BRANCHED
SPI/BUM	802-03.04	SPIREA BUMALDA 'ANTHONY WATERER'	ANTHONY WATERER SPIREA	24" B/B	14	WELL-BRANCHED
SPI/PRU	802-03.05	SPIREA PRUNIFOLIA	BRIDALWREATH SPIREA	24" B/B	10	ROUNDED, WELL-BRANCHED
PIE/JAP	802-03.06	PIERIS JAPONICA	JAP. ANDROMEDA	24" B/B	24	WELL-BRANCHED
TAX/DEN	802-03.07	TAXUS DENSIFORMIS	ANGLOJAP. YEW	24" B/B	72	ROUNDED FORM
ILE/FOS	802-03.08	ILEX X FOSTERS NO. 2'	FOSTER'S HOLLY	36" B/B	7	UPRIGHT FORM, WELL-BRANCHED
EUO/ALA	802-03.09	EUONYMUS ALATA COMPACTA	BURNING BUSH	24" B/B	16	ROUNDED, WELL-BRANCHED
HYD/QUE	802-03.10	HYDRANGEA QUERCIFOLIA	OAKLEAF HYDRANGEA	36" B/B	9	MULTI-STEMMED IRREGULAR FORM
RHO/CAT/ ALB	802-03.11	RHODODENDRON CATAWBIENSE ALBUM	WHITE-FLOWERED RHODODENDRON	24" B/B	10	WELL-BRANCHED
RHO/CAT/ ARN	802-03.12	RHODODENDRON CATAWBIENSE 'ARNO'	LIL AC-FLOWERED RHODODENDRON	24" B/B	5	WELL-BRANCHED
HOS/SPP	802-04.02	LILIUM SPP.	HOSTA SPECIES, GREEN AND VARIE- GATED MARGIN RECOMMENDED MIX	1" BULB	494	BULBS IN GOOD CONDITION, FALL PLANTING
VIN/MIN	802-04.01	VINCA MINOR	PERIWINKLE	4" POT	104 SY.	6" TRAILERS, MIN. 3 PER POT

GENERAL NOTES :

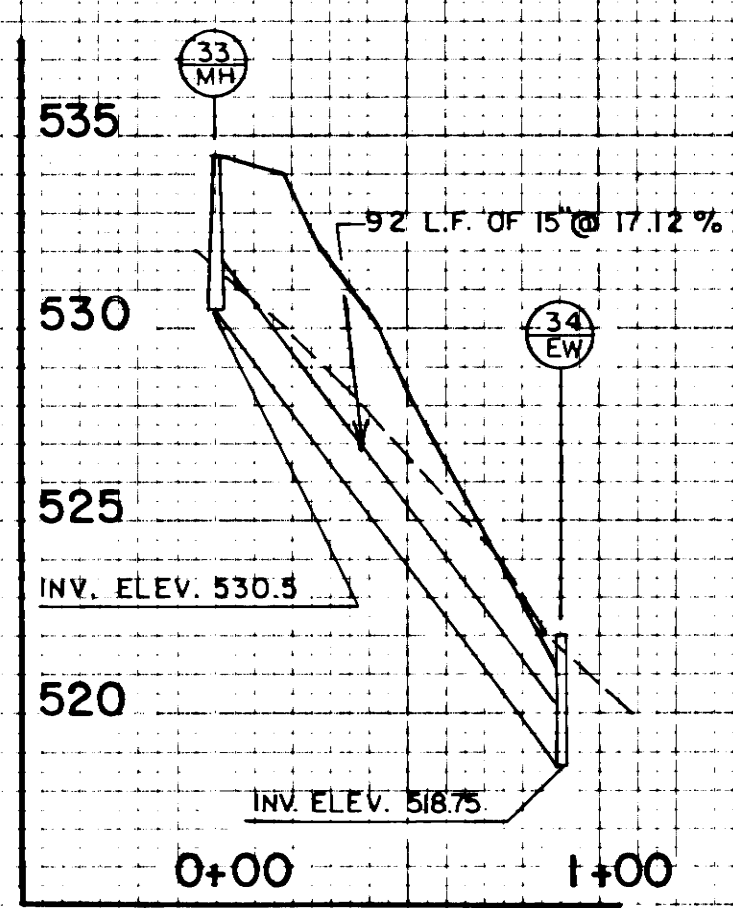
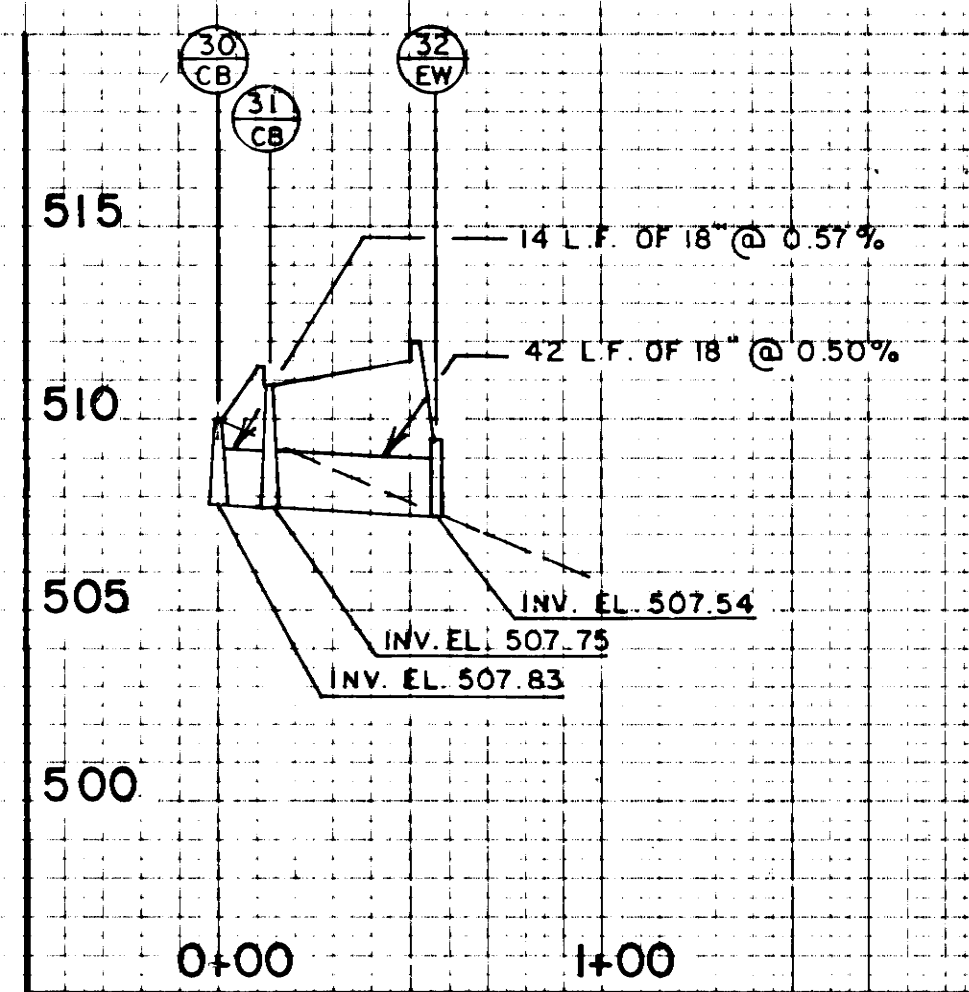
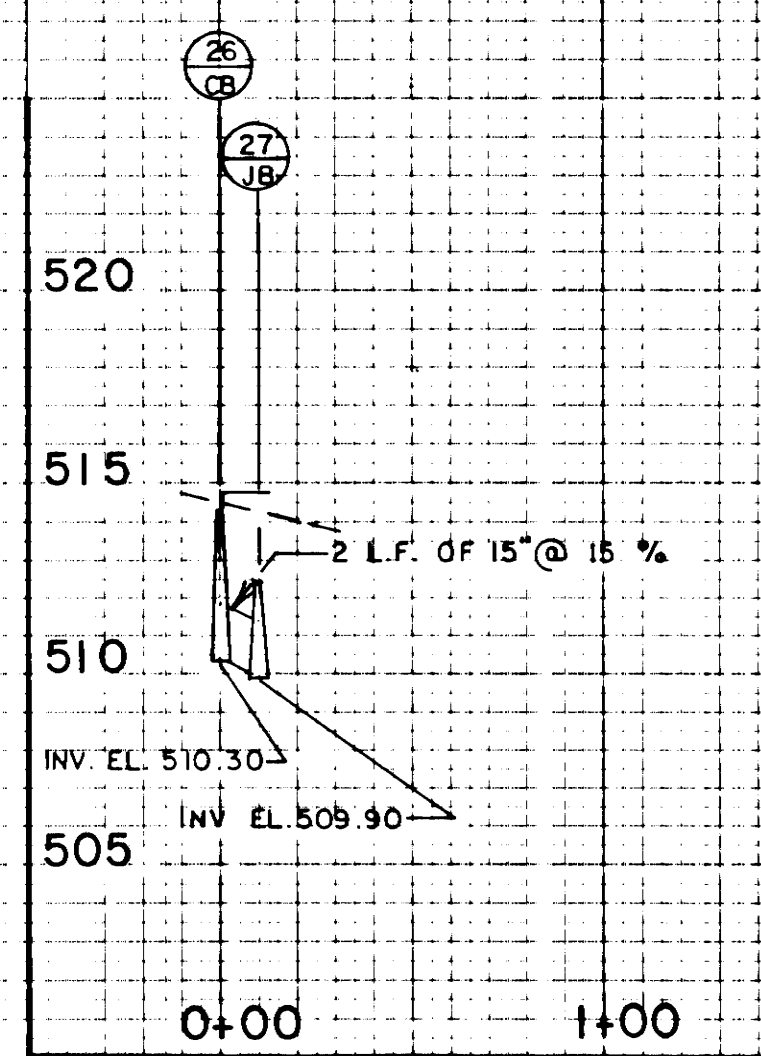
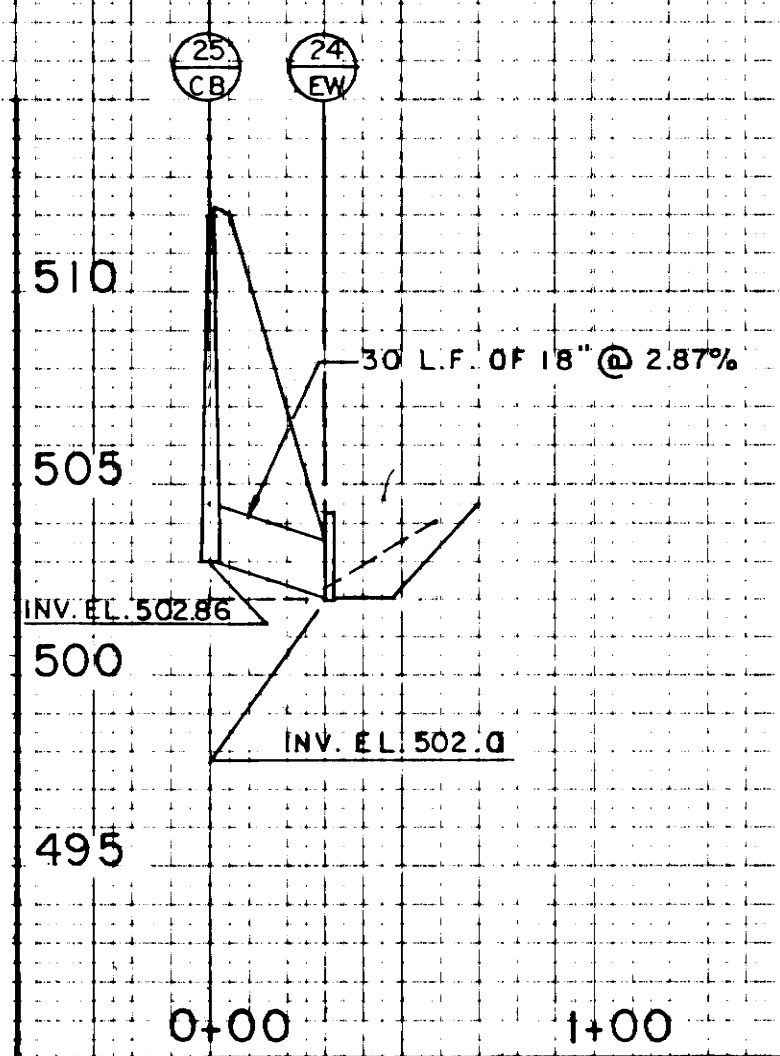
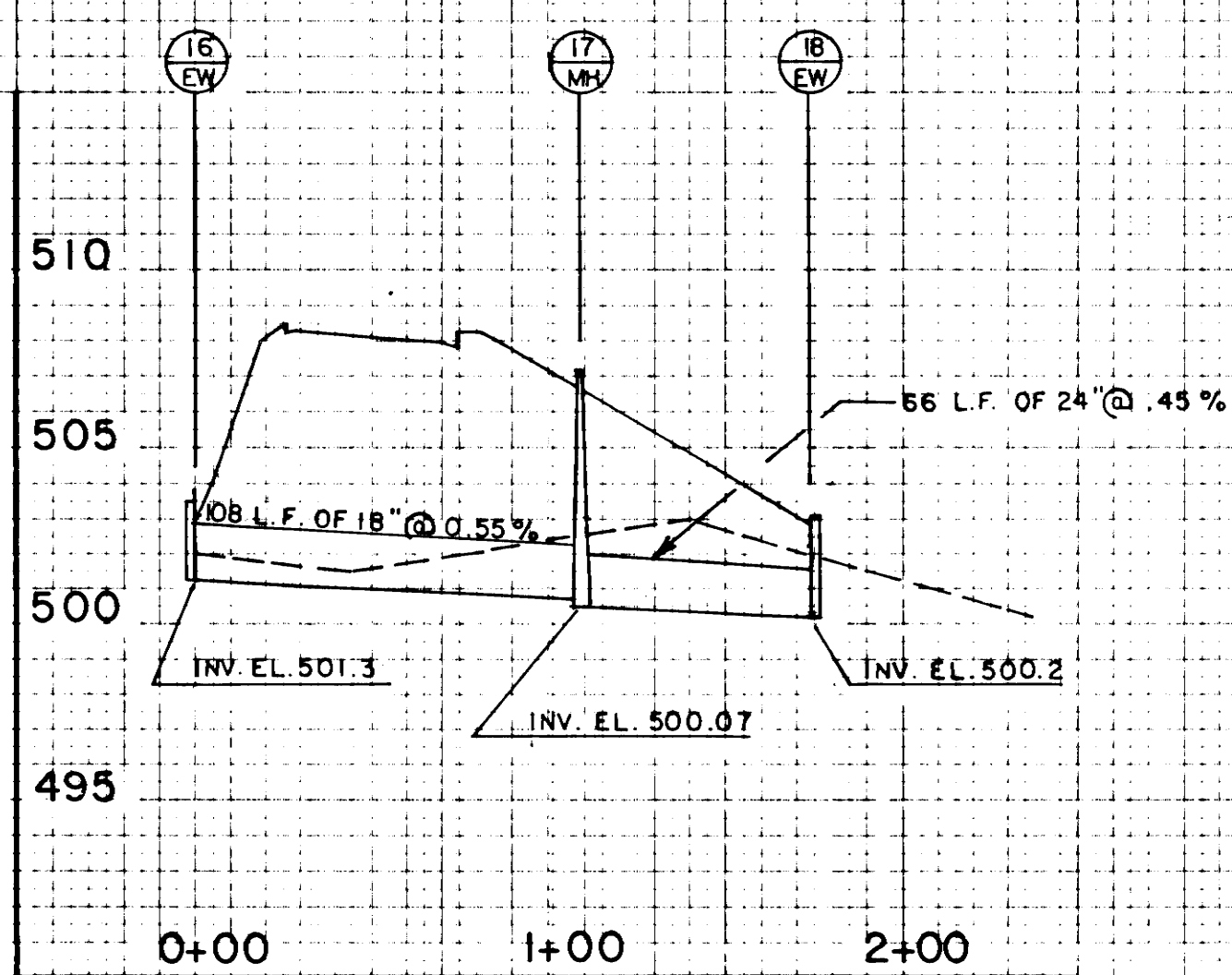
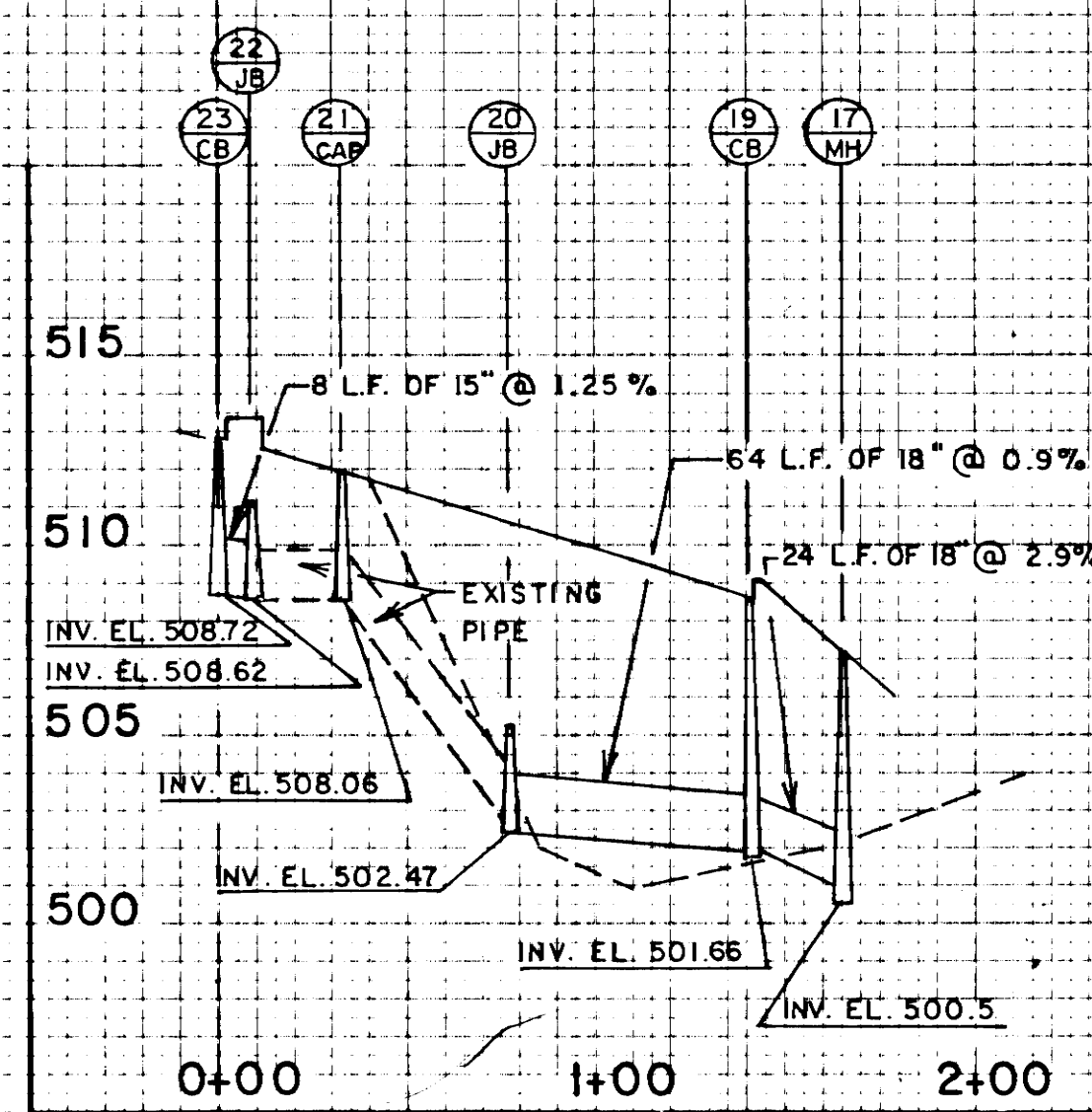
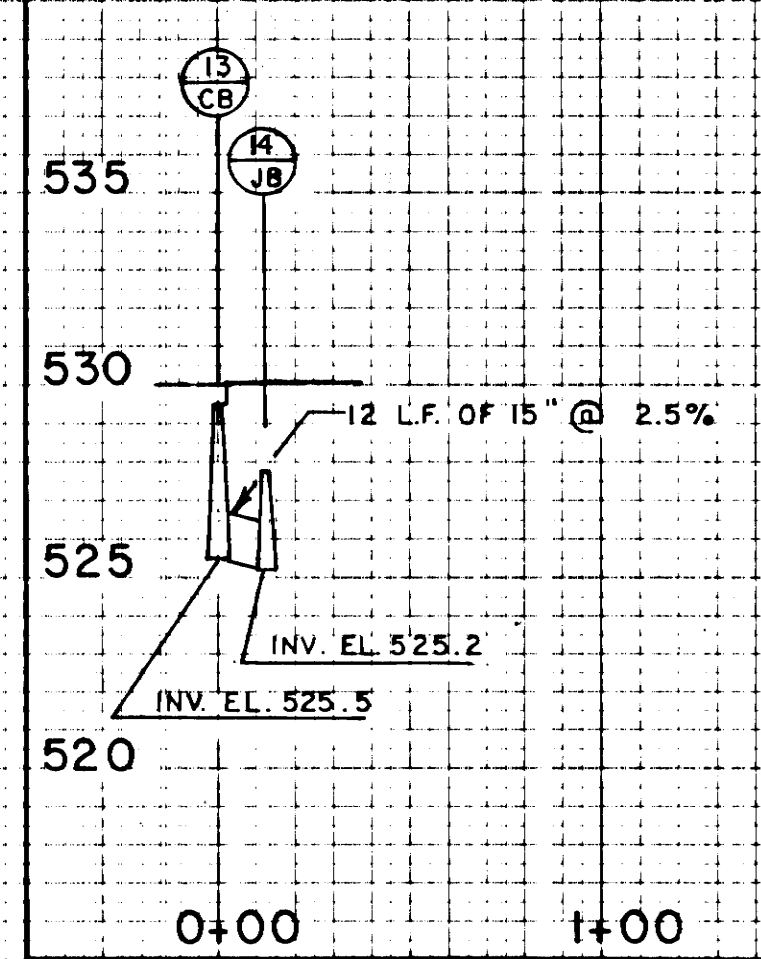
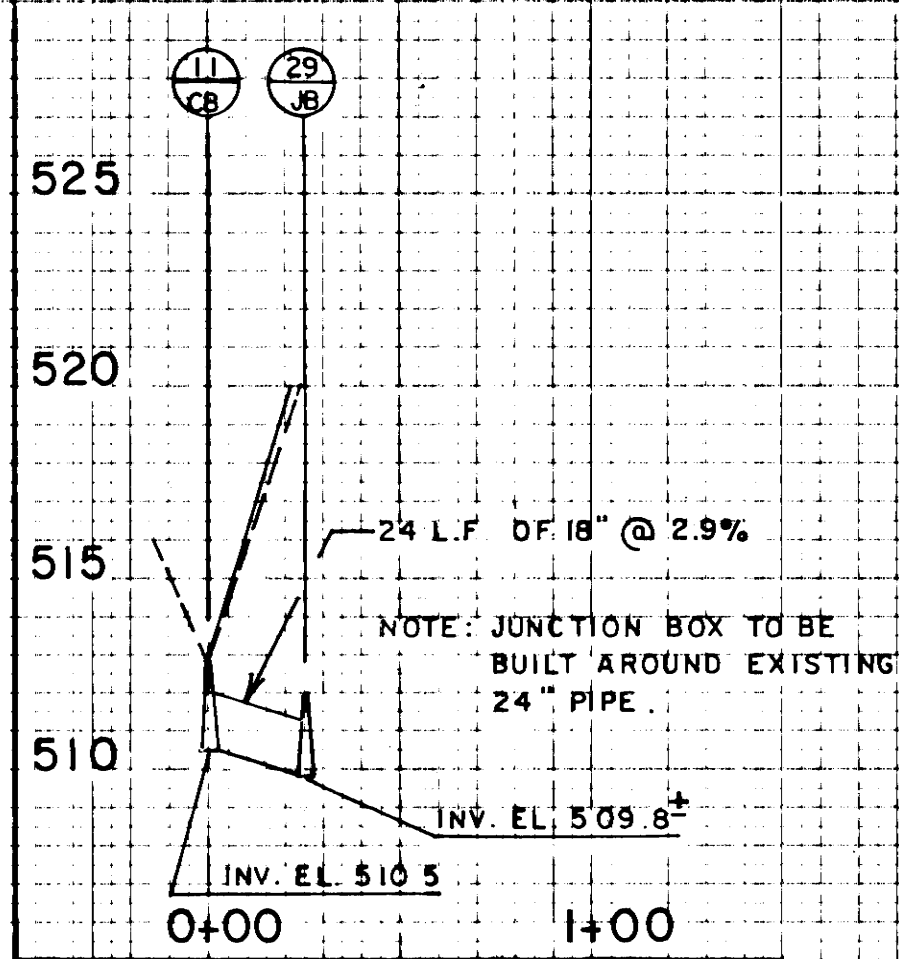
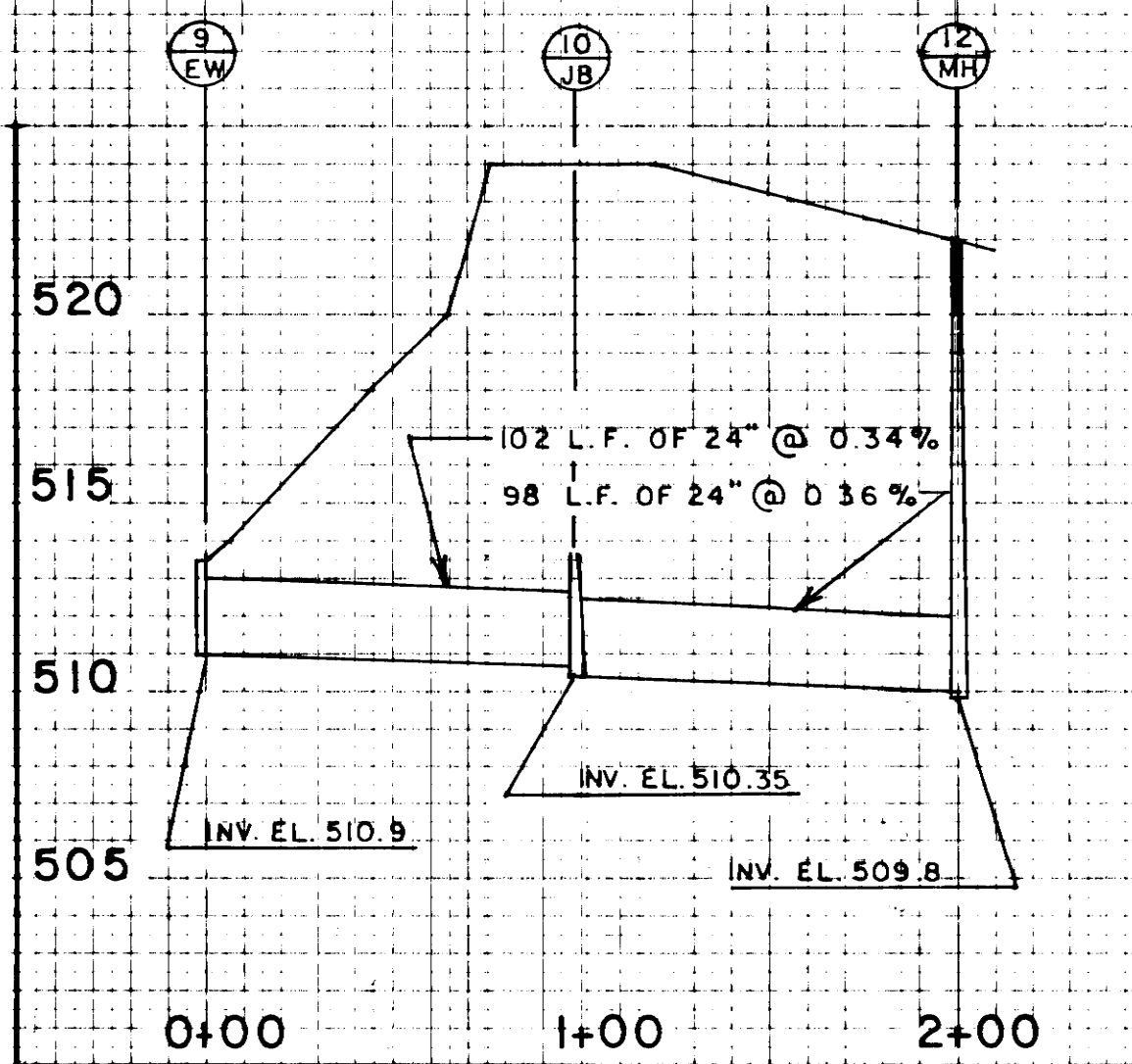
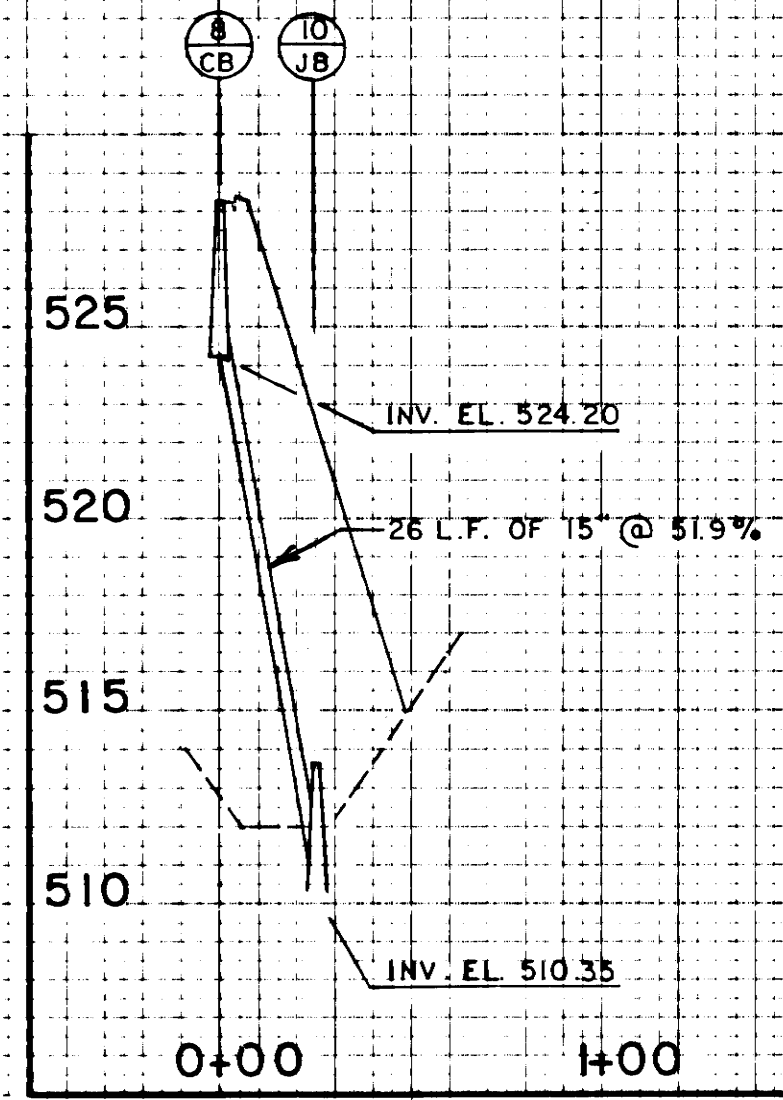
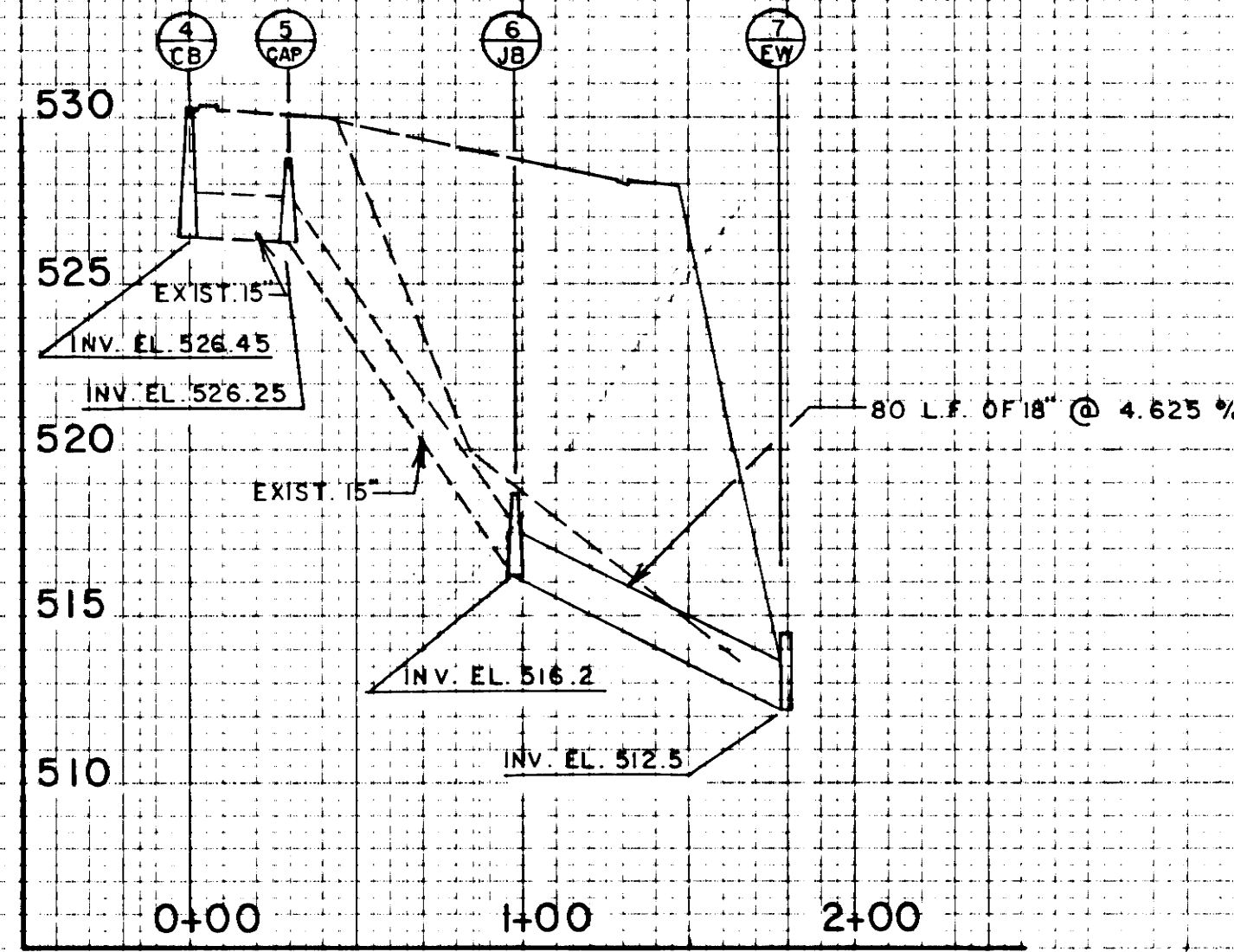
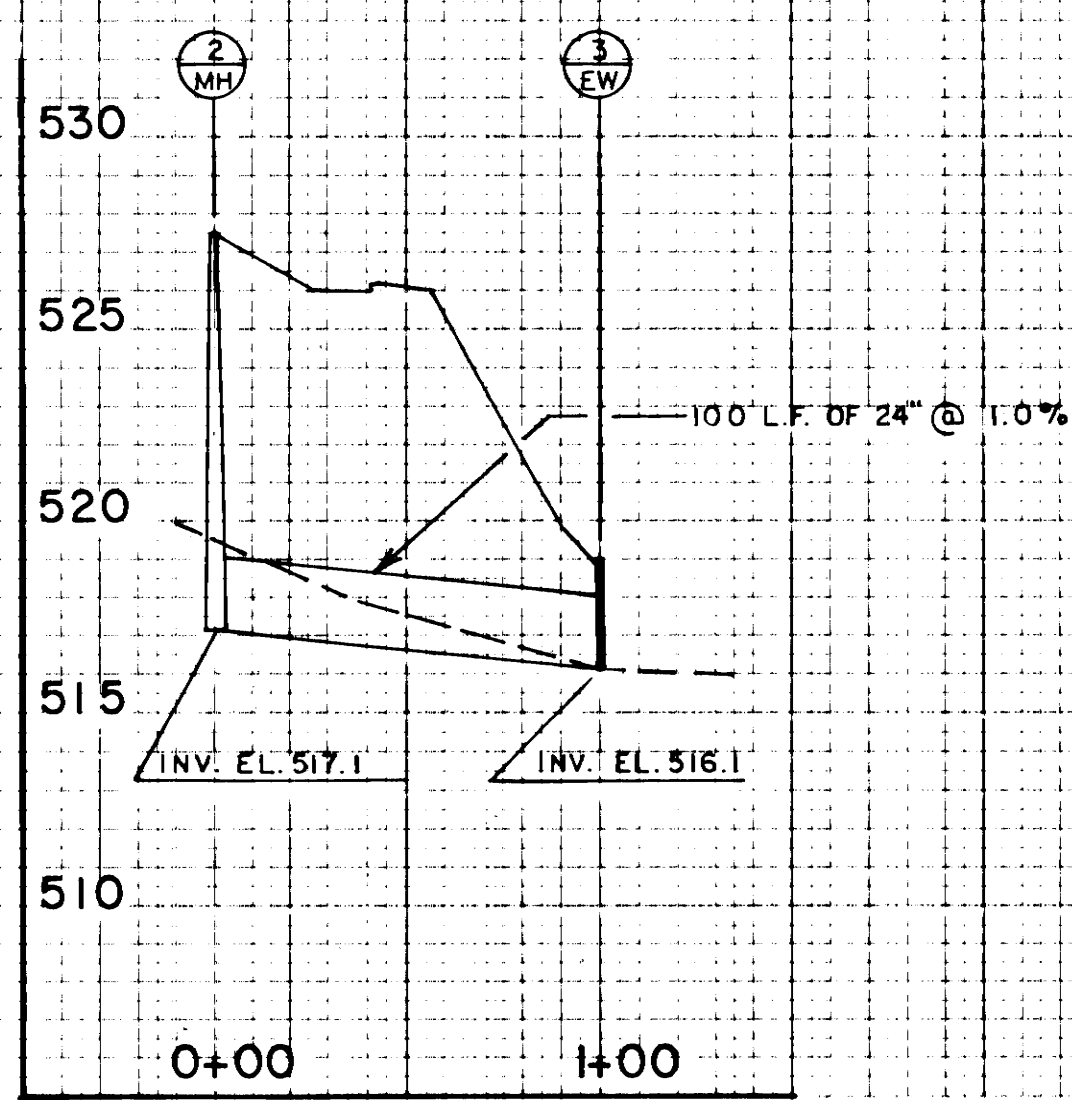
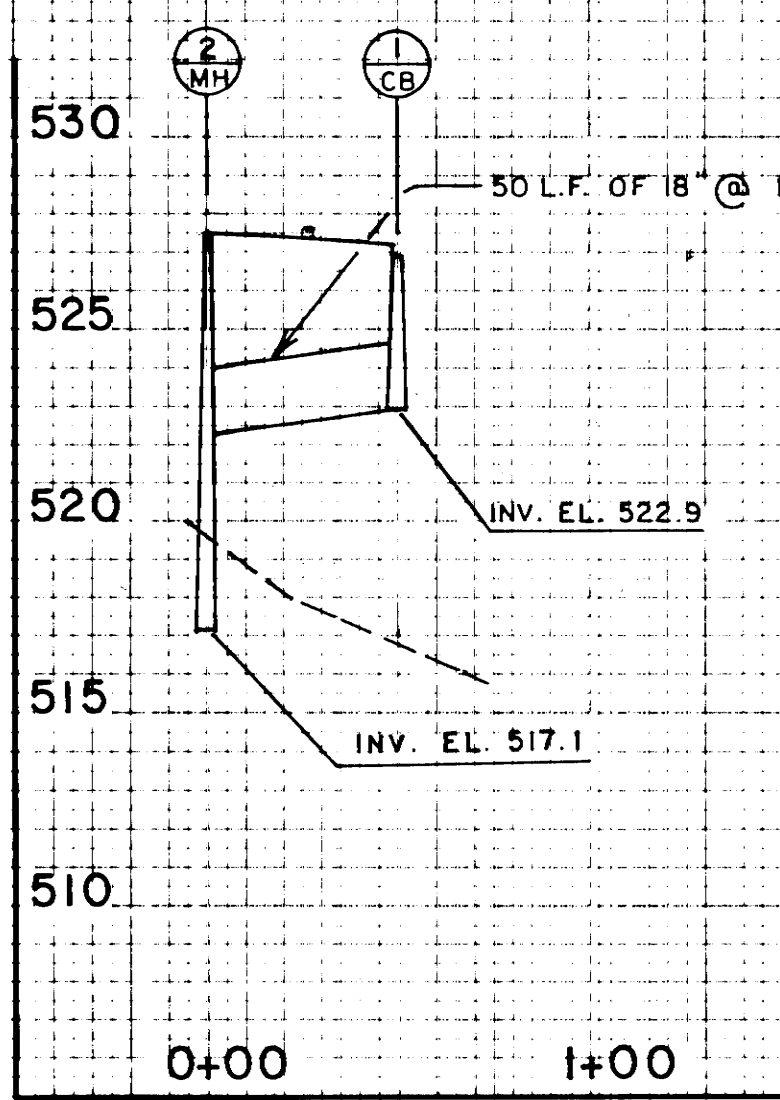
1. Hosta bulbs to be 8" o.c. and installed in late fall or early spring. Beds should be well mulched.
2. Taxus should be clipped to a max. of 2.5' tall.
3. Vinca is to be planted on 8" centers.
4. Ball size on transplanted trees to be 10" per caliper inch 72" maximum.
5. Measure caliper size at 8-10" above ground level.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS

LANDSCAPE PLAN

SCALE: 1" = 10'

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	84	IR-40-5(82)267	8



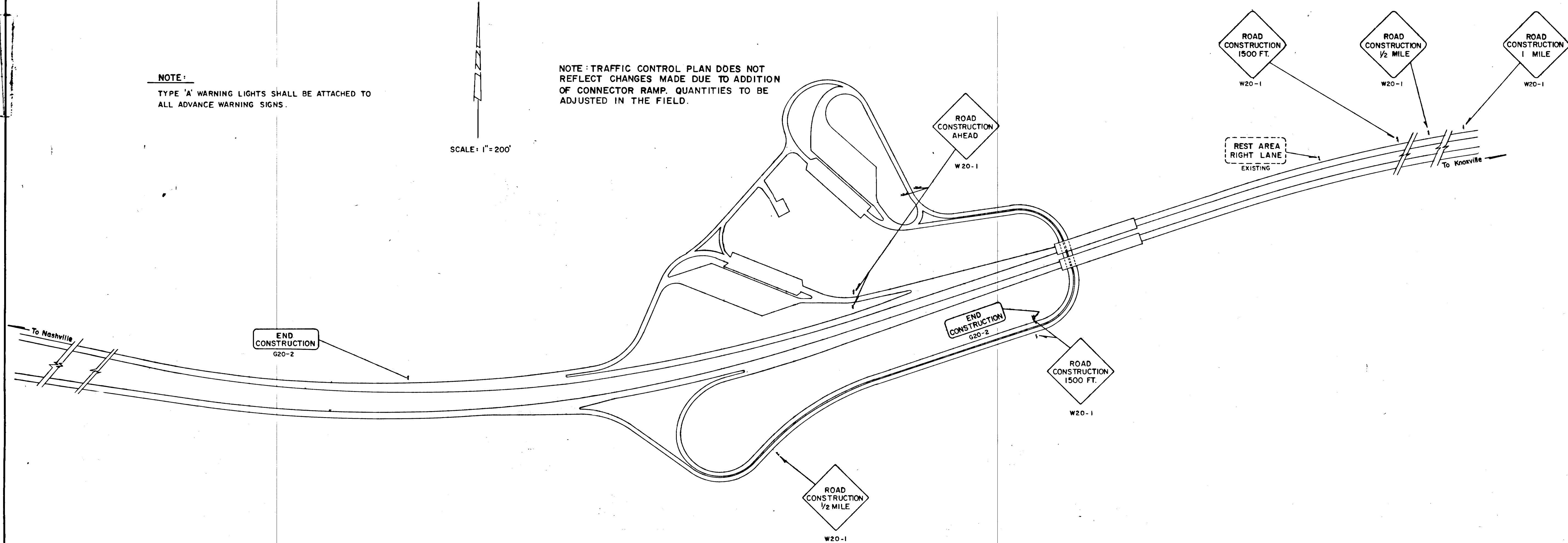
STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION
 BUREAU OF HIGHWAYS

**STORM SEWER
 PROFILE**
 SCALE: 1"=50'
 1"=5'

TYPE 'A' WARNING LIGHTS SHALL BE ATTACHED TO ALL ADVANCE WARNING SIGNS.

NOTE : TRAFFIC CONTROL PLAN DOES NOT REFLECT CHANGES MADE DUE TO ADDITION OF CONNECTOR RAMP. QUANTITIES TO BE ADJUSTED IN THE FIELD.

SCALE: 1" = 200'



TRAFFIC CONTROL NOTES

1. THE TRAFFIC CONTROL PLAN SHOWN SHOULD BE CONSIDERED A MINIMUM. ALTERNATE SCHEMES MAY BE USED UPON APPROVAL OF THE ENGINEER.
2. THE APPROPRIATE TRAFFIC CONTROL DEVICES SHALL BE INSTALLED AT THE INCEPTION OF EACH STAGE OF CONSTRUCTION AND SHALL BE PROPERLY MAINTAINED AND/OR OPERATED DURING THE TIME SUCH SPECIAL CONDITIONS EXIST. THEY SHALL REMAIN IN PLACE ONLY AS LONG AS THEY ARE NEEDED AND SHALL BE IMMEDIATELY REMOVED THEREAFTER.
3. ALL REGULATORY AND WARNING SIGNS WHICH ARE NO LONGER APPROPRIATE BECAUSE OF THE CONSTRUCTION SHALL BE COVERED.
4. ALL TRAFFIC CONTROL DEVICES AND THEIR INSTALLATION SHALL MEET THE STANDARDS PRESCRIBED IN THE STATE OF TENNESSEE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND SHALL COMPLY WITH THE TENNESSEE HIGHWAY SPECIFICATIONS, 1981 AND APPLICABLE SPECIAL PROVISIONS.

ITEM 712-06 SIGNS (CONSTRUCTION)

TYPE	DESCRIPTION	QUANTITY EACH	AREA/EACH S F	TOTAL S.F.
D9-6	GENERAL SERVICE	4	4	16
G20-2	END OF CONSTRUCTION	2	10	20
M6-1	DIRECTIONAL ARROW	2	3	6
M6-3	DIRECTIONAL ARROW	2	3	6
R1-1	STOP	1	6	6
R1-2	YIELD	1	4	4
R3-2	TURN PROHIBITION	2	4	8
R5-1	DO NOT ENTER	2	7	14
R5-9	WRONG WAY	2	6	12
R7-8	URBAN PARKING AND STOPPING	4	4	16
-	TRUCK AND CAR PARKING	1	12	12
W20-1	ADVANCE ROAD CONSTRUCTION	10	16	160
R6-1R	ONE WAY	1	3	3
M4-7A	PARKING	4	2	8
TOTAL				291

① SIGN TO BE 36" x 48", LETTERS TO BE 6" 'C' LETTERS.

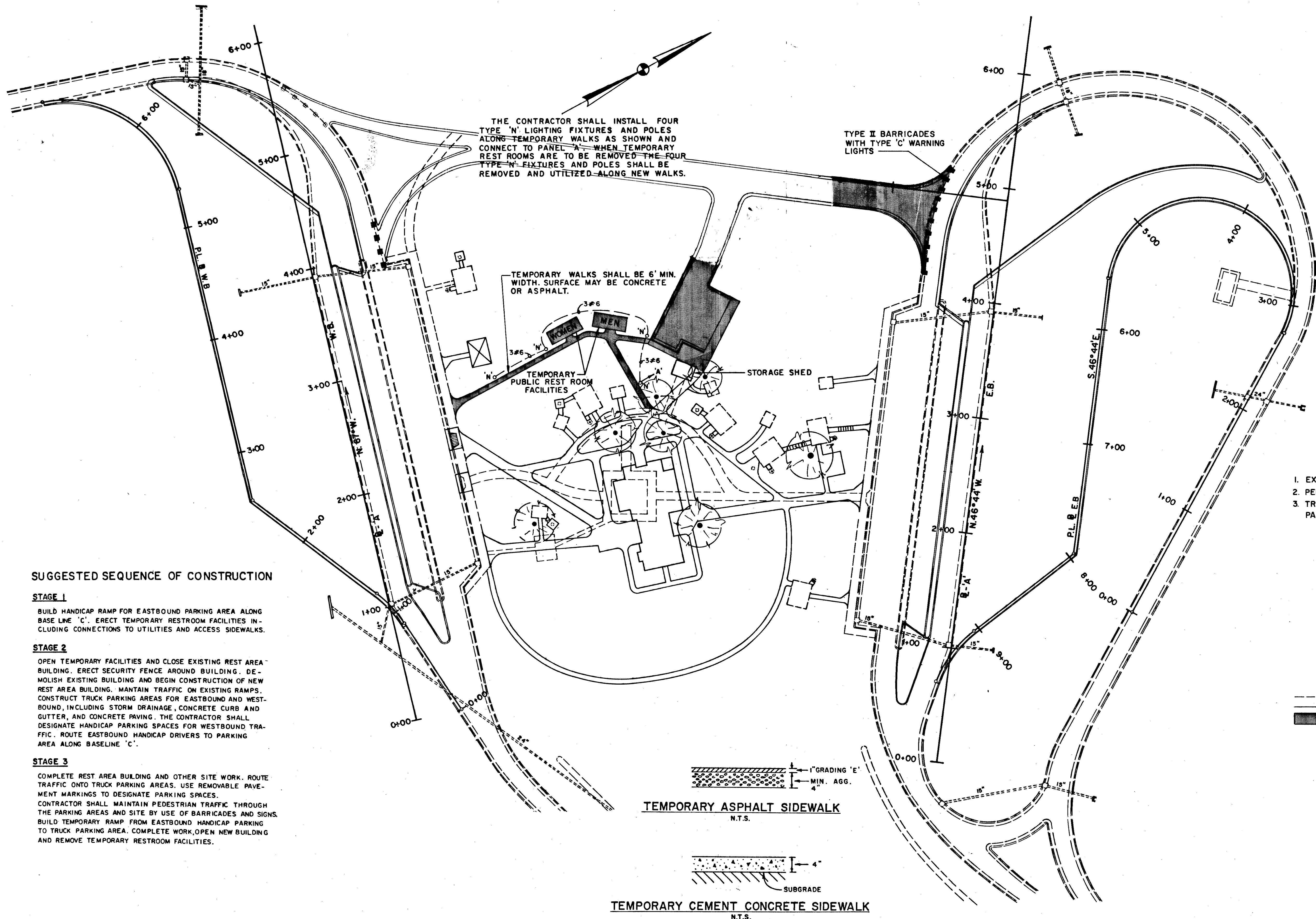
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS

TRAFFIC CONTROL PLAN

TOWN STATE HIGHWAYS
 Plans
 Div. No. 160

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	84	IR-40-5(82)267	9 A

REV. 2-21-84: THIS SHEET ADDED TO PLANS.



SUGGESTED SEQUENCE OF CONSTRUCTION

STAGE 1

BUILD HANDICAP RAMP FOR EASTBOUND PARKING AREA ALONG BASE LINE 'C'. ERECT TEMPORARY RESTROOM FACILITIES INCLUDING CONNECTIONS TO UTILITIES AND ACCESS SIDEWALKS.

STAGE 2

OPEN TEMPORARY FACILITIES AND CLOSE EXISTING REST AREA BUILDING. ERECT SECURITY FENCE AROUND BUILDING. DEMOLISH EXISTING BUILDING AND BEGIN CONSTRUCTION OF NEW REST AREA BUILDING. MAINTAIN TRAFFIC ON EXISTING RAMPS. CONSTRUCT TRUCK PARKING AREAS FOR EASTBOUND AND WESTBOUND, INCLUDING STORM DRAINAGE, CONCRETE CURB AND GUTTER, AND CONCRETE PAVING. THE CONTRACTOR SHALL DESIGNATE HANDICAP PARKING SPACES FOR WESTBOUND TRAFFIC. ROUTE EASTBOUND HANDICAP DRIVERS TO PARKING AREA ALONG BASELINE 'C'.

STAGE 3

COMPLETE REST AREA BUILDING AND OTHER SITE WORK. ROUTE TRAFFIC ONTO TRUCK PARKING AREAS. USE REMOVABLE PAVEMENT MARKINGS TO DESIGNATE PARKING SPACES. CONTRACTOR SHALL MAINTAIN PEDESTRIAN TRAFFIC THROUGH THE PARKING AREAS AND SITE BY USE OF BARRICADES AND SIGNS. BUILD TEMPORARY RAMP FROM EASTBOUND HANDICAP PARKING TO TRUCK PARKING AREA. COMPLETE WORK, OPEN NEW BUILDING AND REMOVE TEMPORARY RESTROOM FACILITIES.

STAGE I NOTES

1. EXISTING BUILDING TO REMAIN IN USE.
2. PEDESTRIANS TO USE EXISTING WALKS.
3. TRAFFIC TO REMAIN ON EXISTING PARKING AREAS.

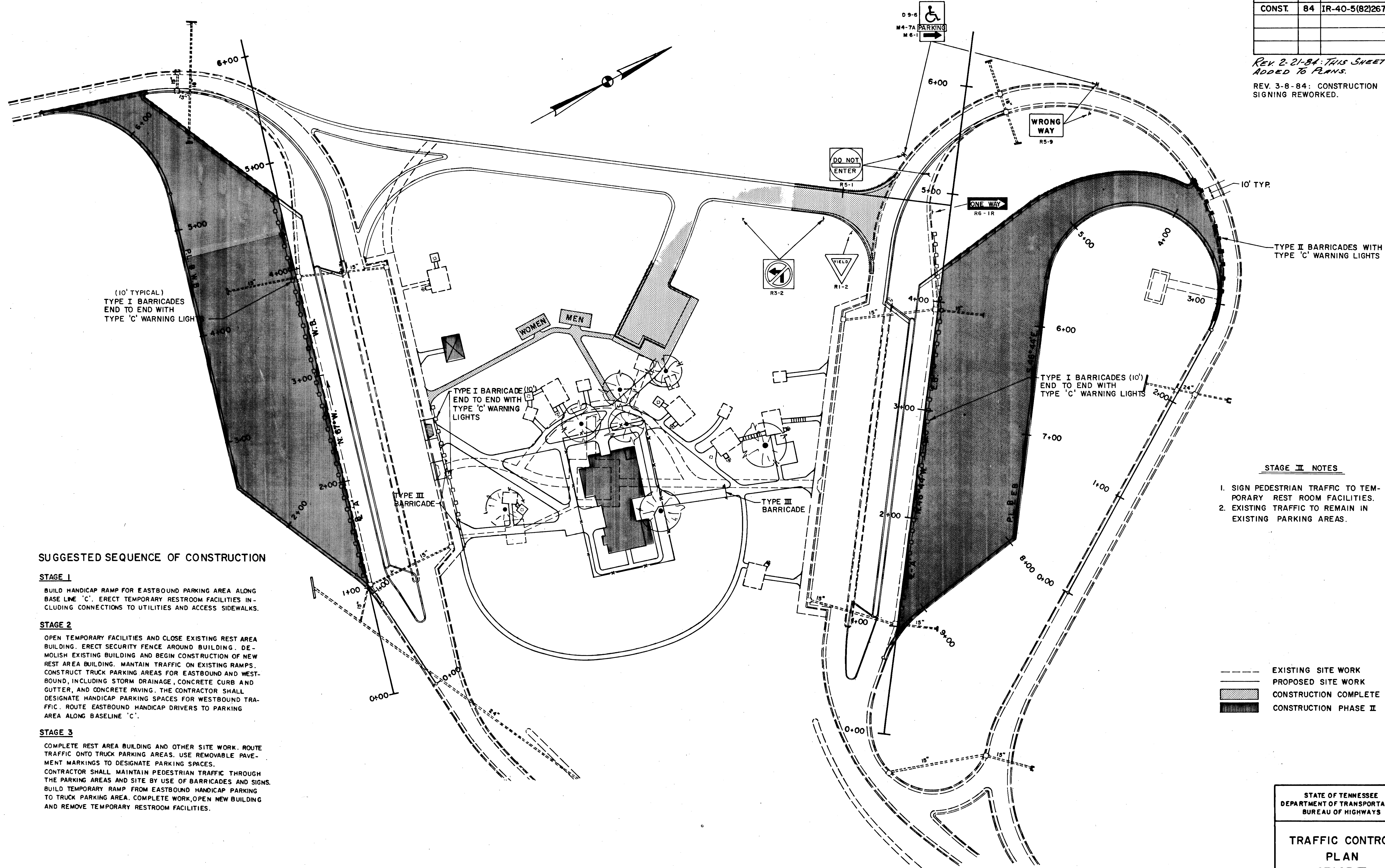
--- EXISTING SITE WORK
 --- PROPOSED SITE WORK
 ■ CONSTRUCTION STAGE I

STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION
 BUREAU OF HIGHWAYS

TRAFFIC CONTROL
 PLAN
 STAGE I
 SCALE 1"=40'

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	84	IR-40-5(82)267	9B

REV. 2-21-84: THIS SHEET
ADDED TO PLANS.
REV. 3-8-84: CONSTRUCTION
SIGNING REWORKED.



SUGGESTED SEQUENCE OF CONSTRUCTION

STAGE 1

BUILD HANDICAP RAMP FOR EASTBOUND PARKING AREA ALONG BASE LINE 'C'. ERECT TEMPORARY RESTROOM FACILITIES INCLUDING CONNECTIONS TO UTILITIES AND ACCESS SIDEWALKS.

STAGE 2

OPEN TEMPORARY FACILITIES AND CLOSE EXISTING REST AREA BUILDING. ERECT SECURITY FENCE AROUND BUILDING. DEMOLISH EXISTING BUILDING AND BEGIN CONSTRUCTION OF NEW REST AREA BUILDING. MAINTAIN TRAFFIC ON EXISTING RAMPS. CONSTRUCT TRUCK PARKING AREAS FOR EASTBOUND AND WESTBOUND, INCLUDING STORM DRAINAGE, CONCRETE CURB AND GUTTER, AND CONCRETE PAVING. THE CONTRACTOR SHALL DESIGNATE HANDICAP PARKING SPACES FOR WESTBOUND TRAFFIC. ROUTE EASTBOUND HANDICAP DRIVERS TO PARKING AREA ALONG BASELINE 'C'.

STAGE 3

COMPLETE REST AREA BUILDING AND OTHER SITE WORK. ROUTE TRAFFIC ONTO TRUCK PARKING AREAS. USE REMOVABLE PAVEMENT MARKINGS TO DESIGNATE PARKING SPACES. CONTRACTOR SHALL MAINTAIN PEDESTRIAN TRAFFIC THROUGH THE PARKING AREAS AND SITE BY USE OF BARRICADES AND SIGNS. BUILD TEMPORARY RAMP FROM EASTBOUND HANDICAP PARKING TO TRUCK PARKING AREA. COMPLETE WORK, OPEN NEW BUILDING AND REMOVE TEMPORARY RESTROOM FACILITIES.

STAGE II NOTES

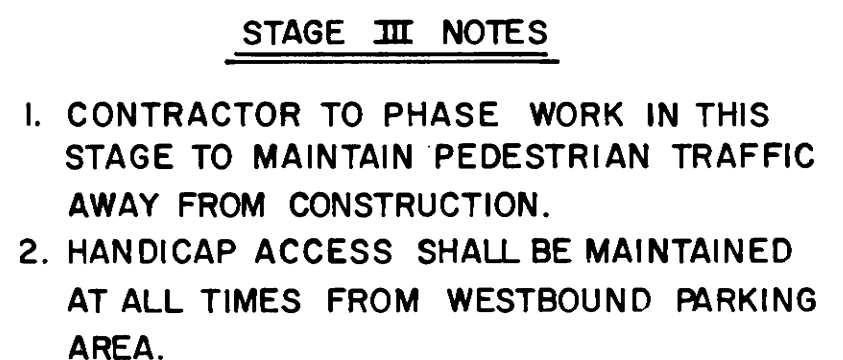
1. SIGN PEDESTRIAN TRAFFIC TO TEMPORARY REST ROOM FACILITIES.
2. EXISTING TRAFFIC TO REMAIN IN EXISTING PARKING AREAS.

- EXISTING SITE WORK
- PROPOSED SITE WORK
- ▨ CONSTRUCTION COMPLETE
- CONSTRUCTION PHASE II

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS

TRAFFIC CONTROL
PLAN
STAGE II
SCALE 1"=40'

REV. 3-8-84: CONSTRUCTION
SIGNING REWORKED.



 EXISTING SITE WORK
 PROPOSED SITE WORK
 CONSTRUCTION COMPLETE
 CONSTRUCTION STAGE III

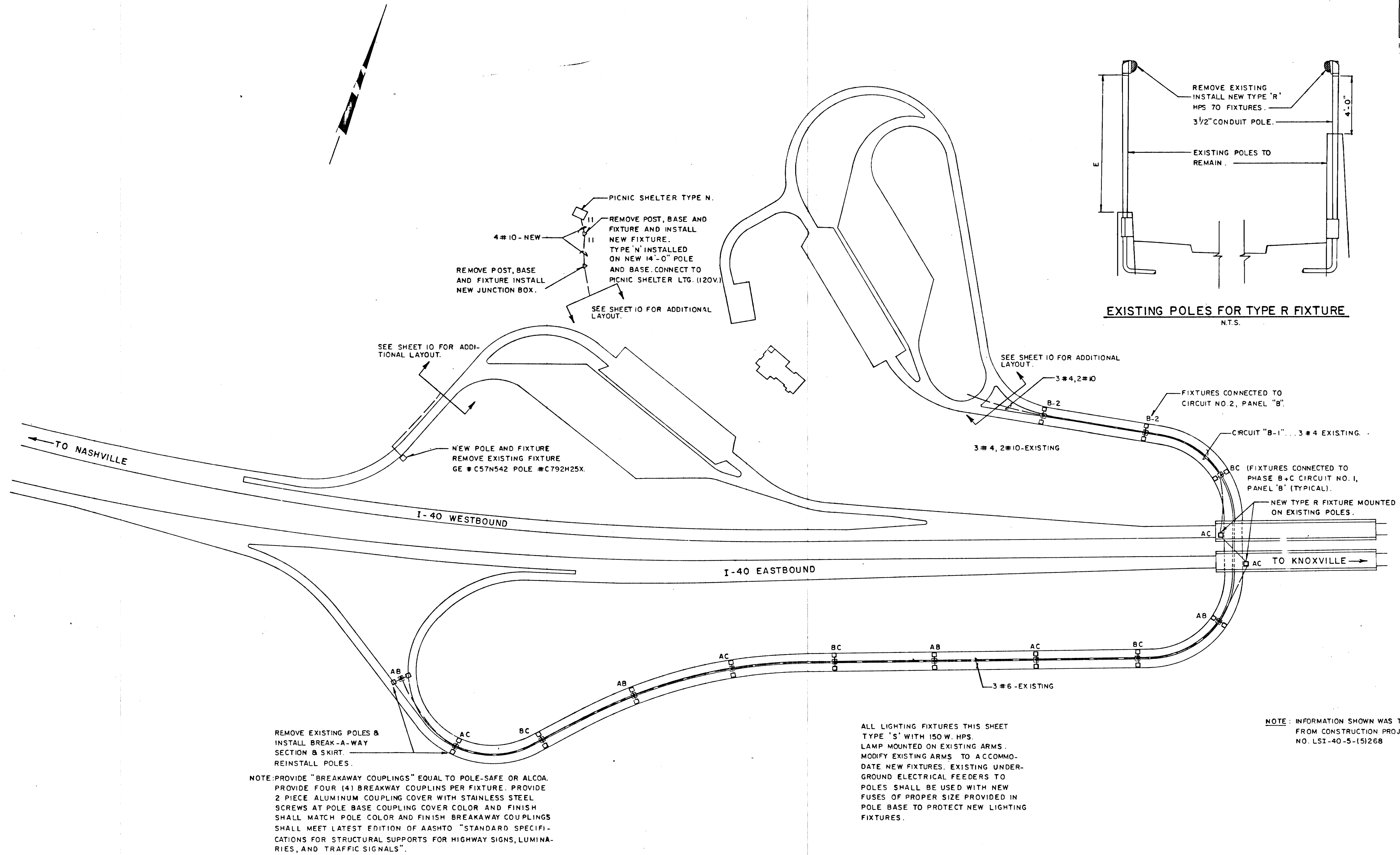
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS

TRAFFIC CONTROL
PLAN
STAGE III
SCALE 1"=40'

FILE NO. 160
DATE
BY

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	84	IR-40-5(82)267	10A

REV. 3-8-84: DELETED REFERENCES TO SINGLE BRAND NAMES.



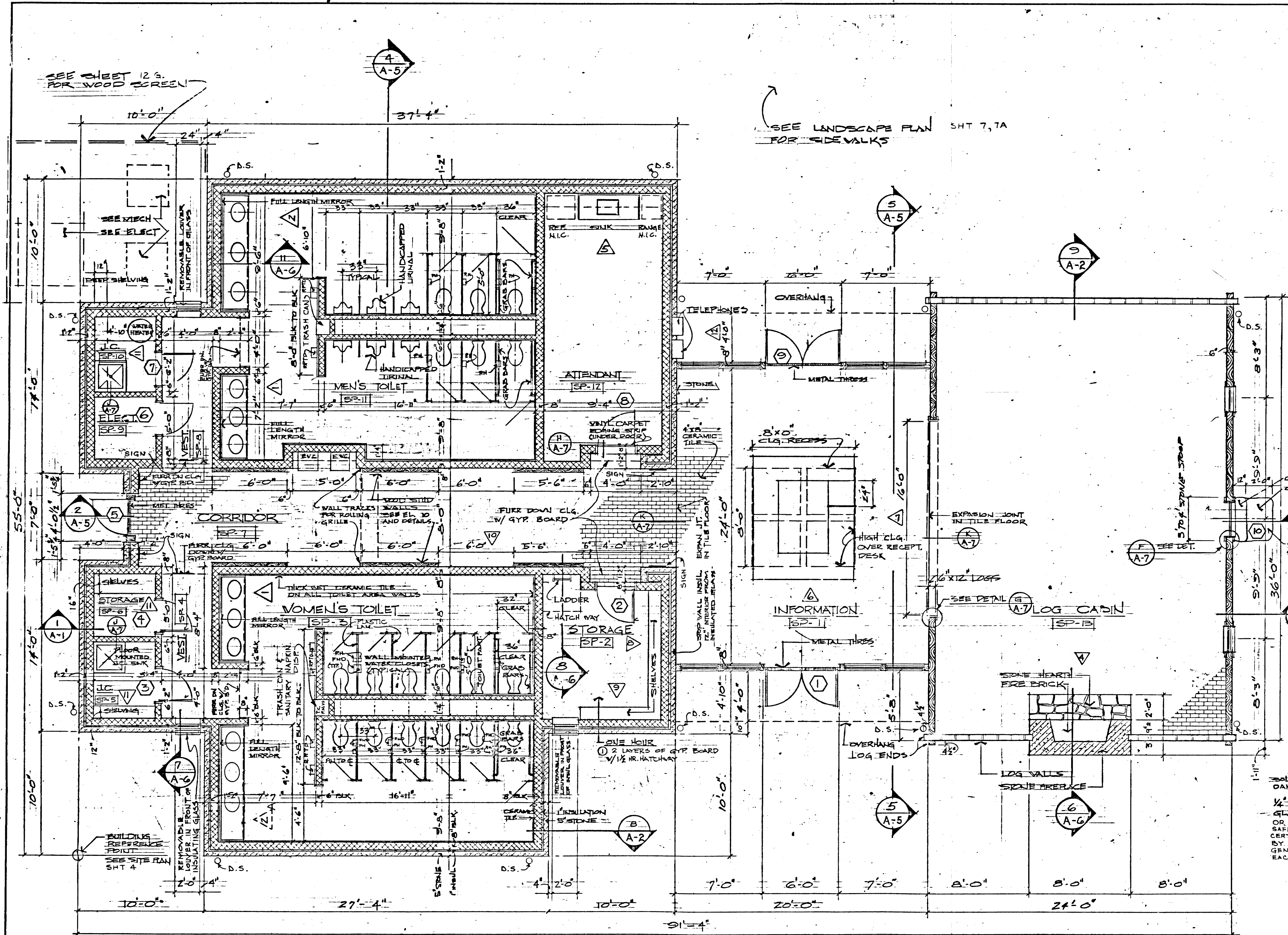
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS

ELECTRICAL
SITE PLAN

SCALE 1" = 100'

FILE NO. 160
DWG. NO. 160

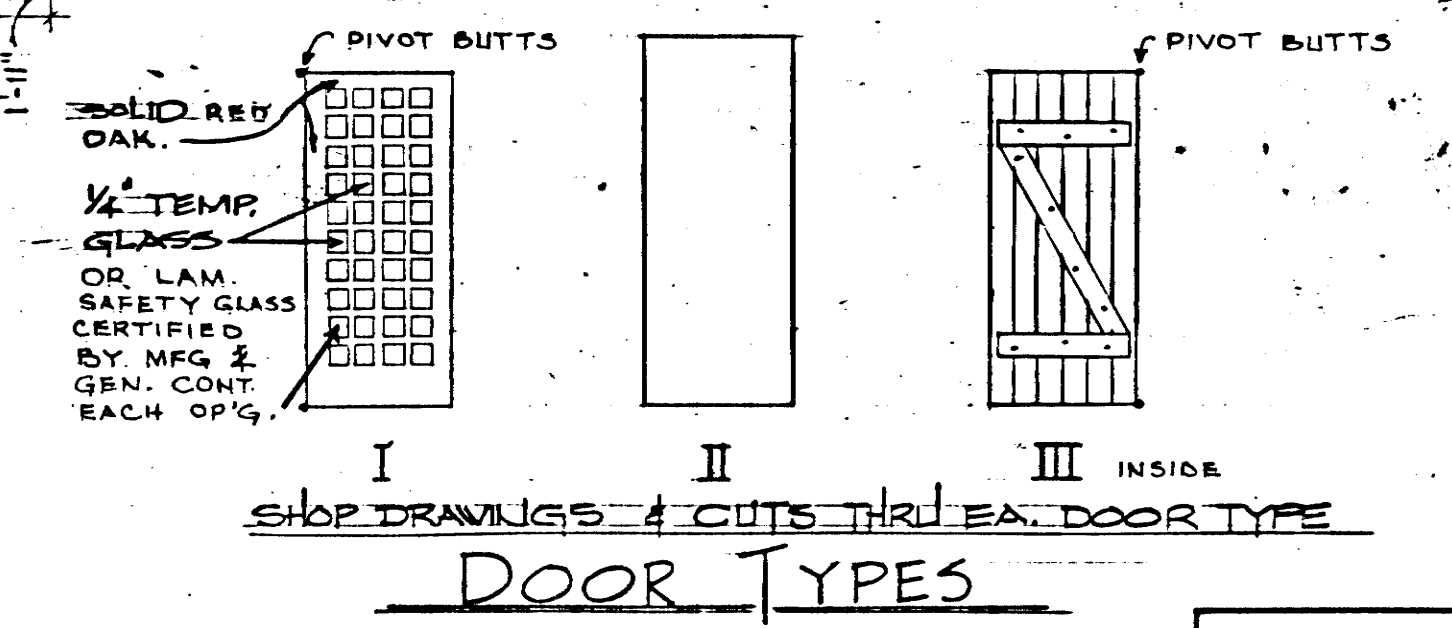
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	84	IR-40-5(82)267	12



DOOR SCHEDULE											
DOOR NUMBER	DOOR				FRAME				FIRE RATING		
	PAIR	WIDTH	HEIGHT	TYPE	MATERIAL	THICKNESS	MATERIAL	THICKNESS	LABEL	HOUR	REMARKS
1		3'-0"	7'-0"		OAK	1 1/2"	WOOD (OAK)	1 1/2"	A	0	
2		3'-0"	7'-0"		H.M.	1 1/2"	H.M.	1 1/2"	B	0	
3		2'-0"	7'-0"		H.M.	1 1/2"	H.M.	1 1/2"	C	0	
4		2'-0"	7'-0"		H.M.	1 1/2"	H.M.	1 1/2"	C	0	
5		3'-0"	7'-0"		OAK	1 1/2"	WOOD (OAK)	1 1/2"	D	0	
6		2'-0"	7'-0"		H.M.	1 1/2"	H.M.	1 1/2"	E	0	
7		2'-0"	7'-0"		H.M.	1 1/2"	H.M.	1 1/2"	F	0	
8		3'-0"	7'-0"		H.M.	1 1/2"	H.M.	1 1/2"	G	0	
9		3'-0"	7'-0"		OAK	1 1/2"	WOOD (OAK)	1 1/2"	H	0	
10		2'-0"	6'-8"		OAK	1 1/2"	WOOD (OAK)	1 1/2"	I	0	OAK * SEE DET. 2

FINISH SCHEDULE											
SPACE NAME	FLOOR	BASE	WALLS	CLGS.	HT.	REMARKS					
1. INFORM.	1	6	4	11	17	9'-5"	BASE ON LOG WALL ONLY				
2. STORAGE	1	3	8	10	17	9'-5"	WATER RESIST. DRY WALL				
3. WOMEN'S T.	1	7	12	13	17	9'-5"	WATER RESIST. DRY WALL				
4. VEST.	1	7	12	13	17	9'-5"	WATER RESIST. DRY WALL				
5. JAN. CL.	1	4	8	14	17	9'-5"	WATER RESIST. DRY WALL				
6. STOR.	1	4	8	14	17	9'-5"	WATER RESIST. DRY WALL				
7. CORRIDOR	1	7	12	14	17	9'-5"	WATER RESIST. DRY WALL				
8. VEST.	1	7	12	14	17	9'-5"	WATER RESIST. DRY WALL				
9. ELECT.	1	4	8	14	17	9'-5"	WATER RESIST. DRY WALL				
10. JAN. CLOS.	1	4	8	14	17	9'-5"	WATER RESIST. DRY WALL				
11. MEN'S T.	1	7	12	13	17	9'-5"	WATER RESIST. DRY WALL				
12. ATTENDANT	2	3	10	13	17	9'-5"	WATER RESIST. DRY WALL				
13. LOG CABIN	1	6	10	13	17	9'-5"	WATER RESIST. DRY WALL				

NOTE: 2 LAYERS OF 5/8" GYP BOARD ON CLGS. IN SPACE 2, 5, 6, & 10.



FLOOR PLAN
SC: 1/4" = 1'-0"

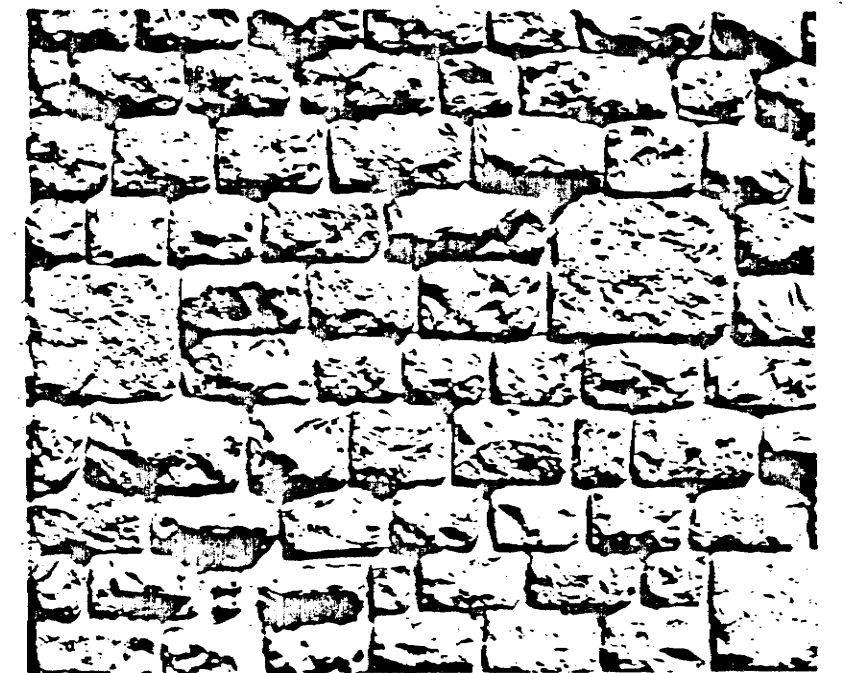


STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS

SMITH CO. REST AREA
BUILDING
I-40 REST AREA 17

A-1

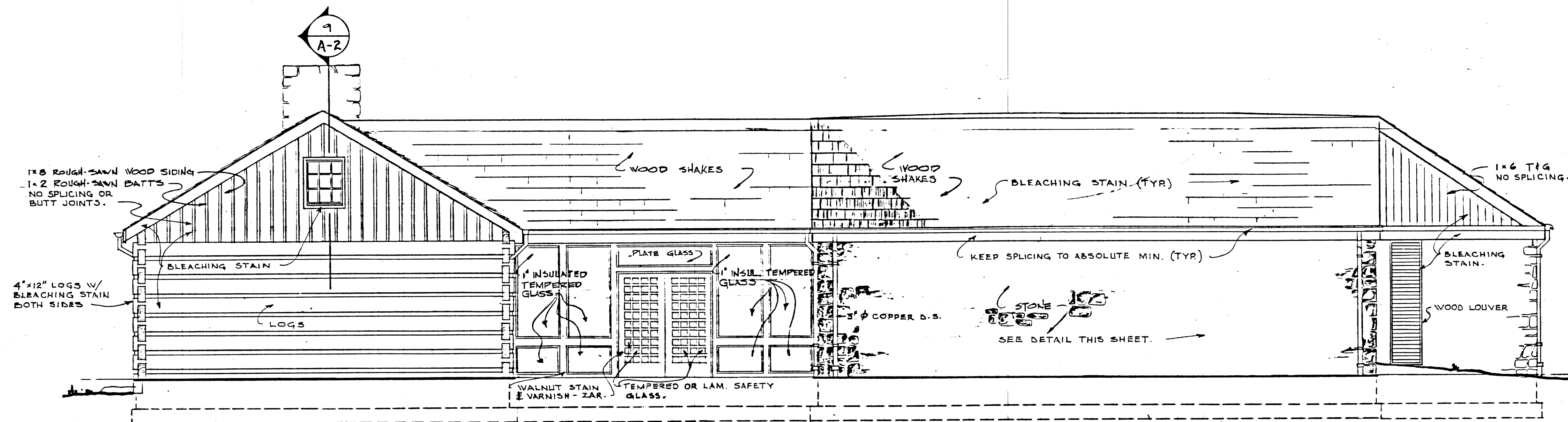
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	84	IR-40-5(82)267	12 A



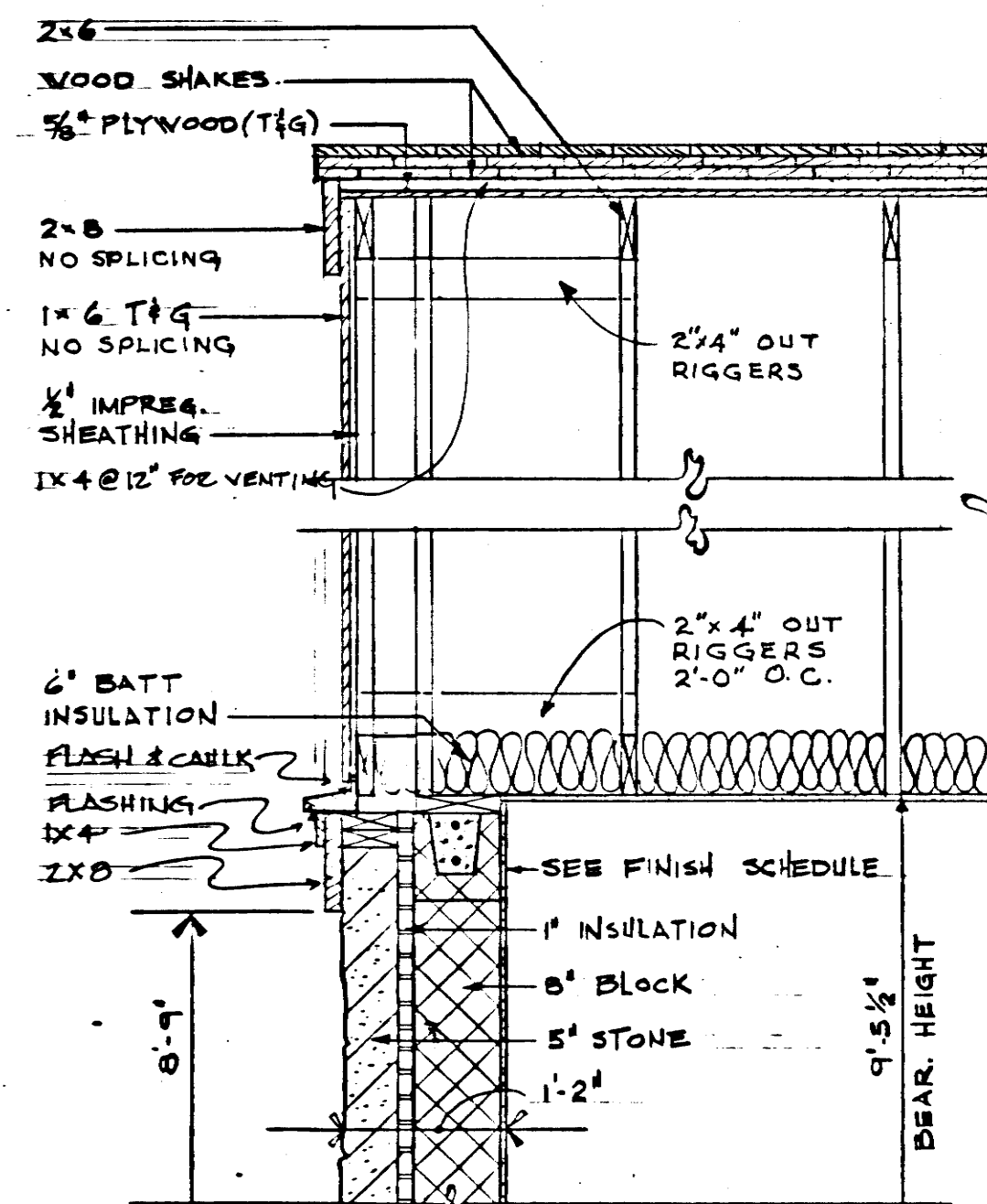
STONE ELEV. DETAIL

NOT TO SCALE

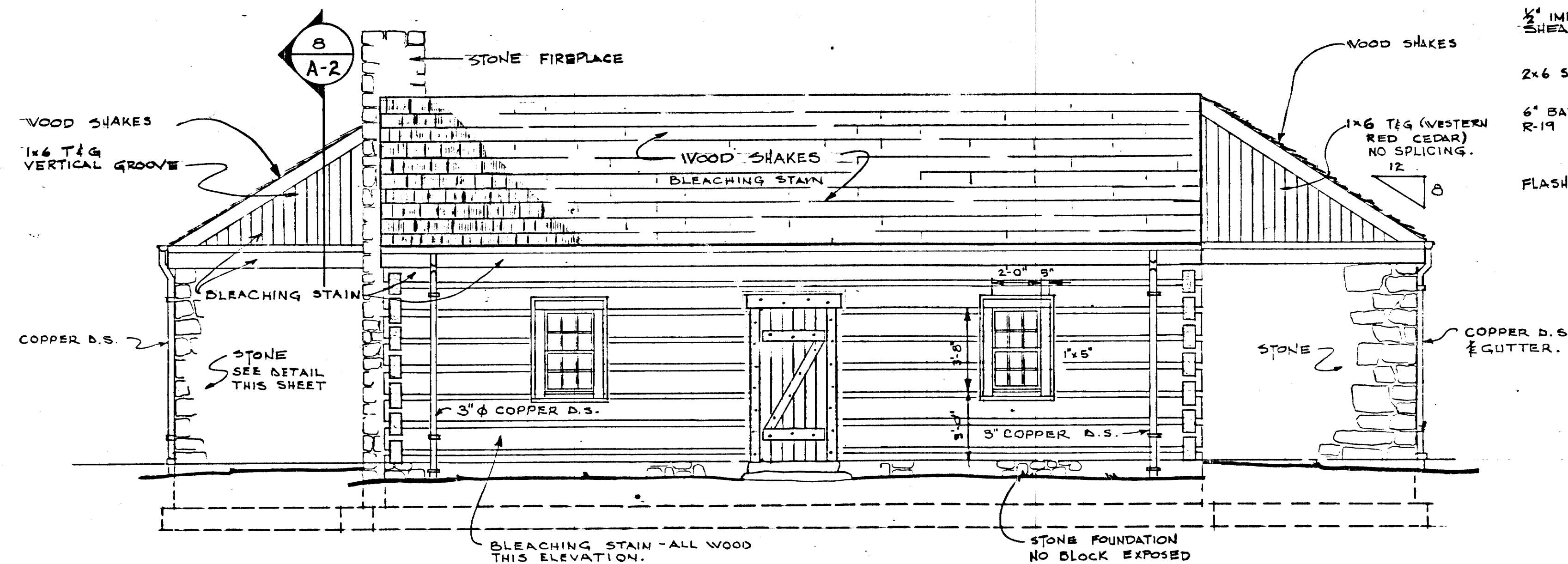
STONE SHALL BE 4" TO 5" THICK,
6" TO 22" HEIGHT AND 10" TO 24" O.W.G.



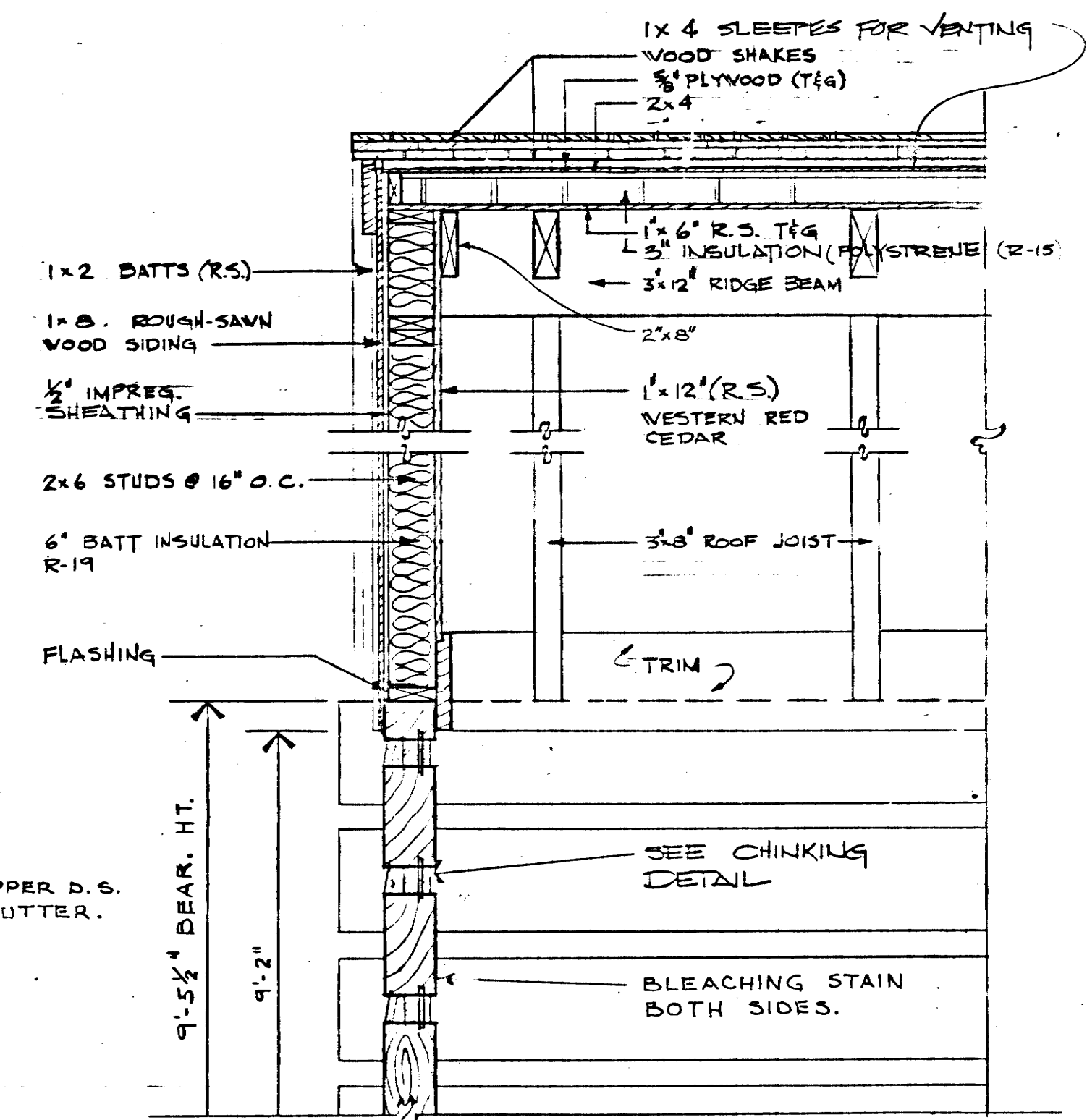
NORTH ELEVATION



SECTION
SCALE: $\frac{3}{4}" = 1'-0"$



EAST ELEVATION



SECTION
SCALE: $\frac{3}{4}" = 1'$

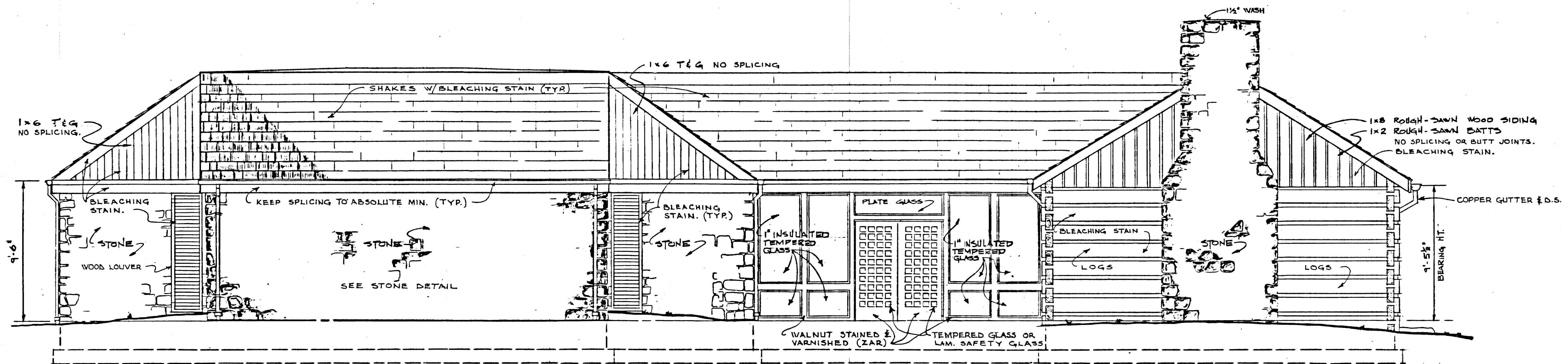


STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS

**SMITH CO.
REST AREA
BUILDING
I-40 REST AREA 17**

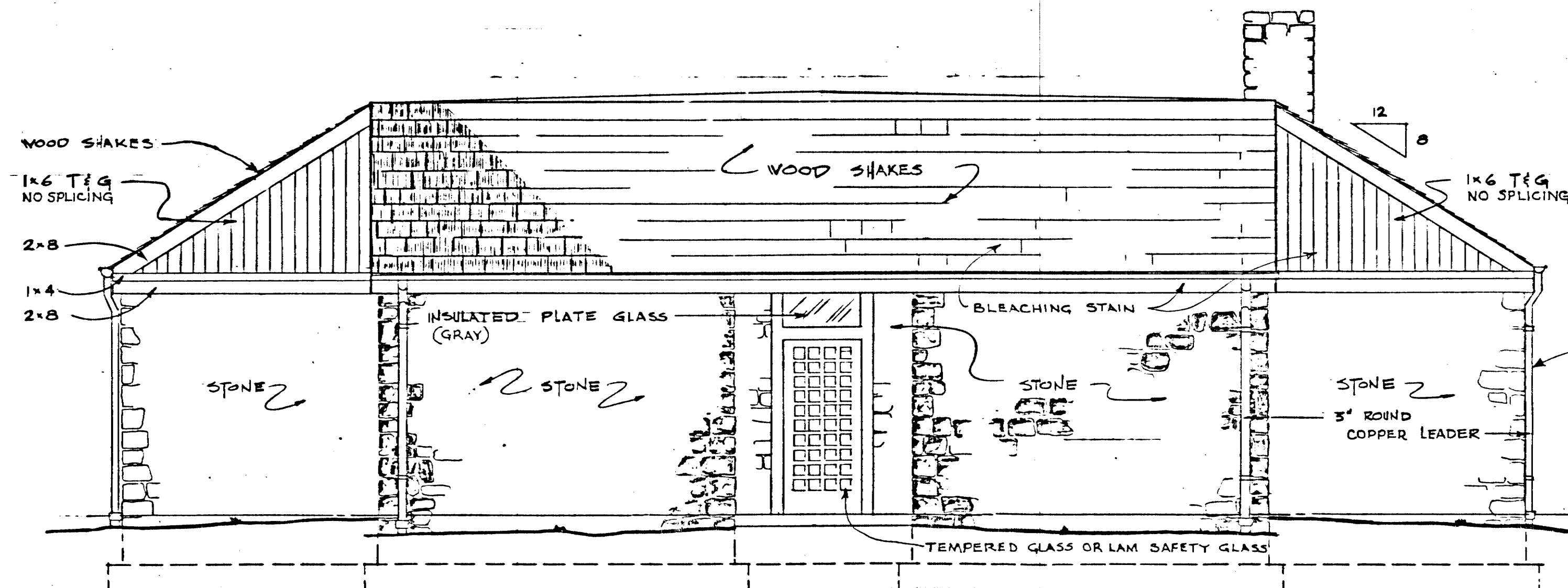
A-2

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	84	IR-40-5(82)267	12 B



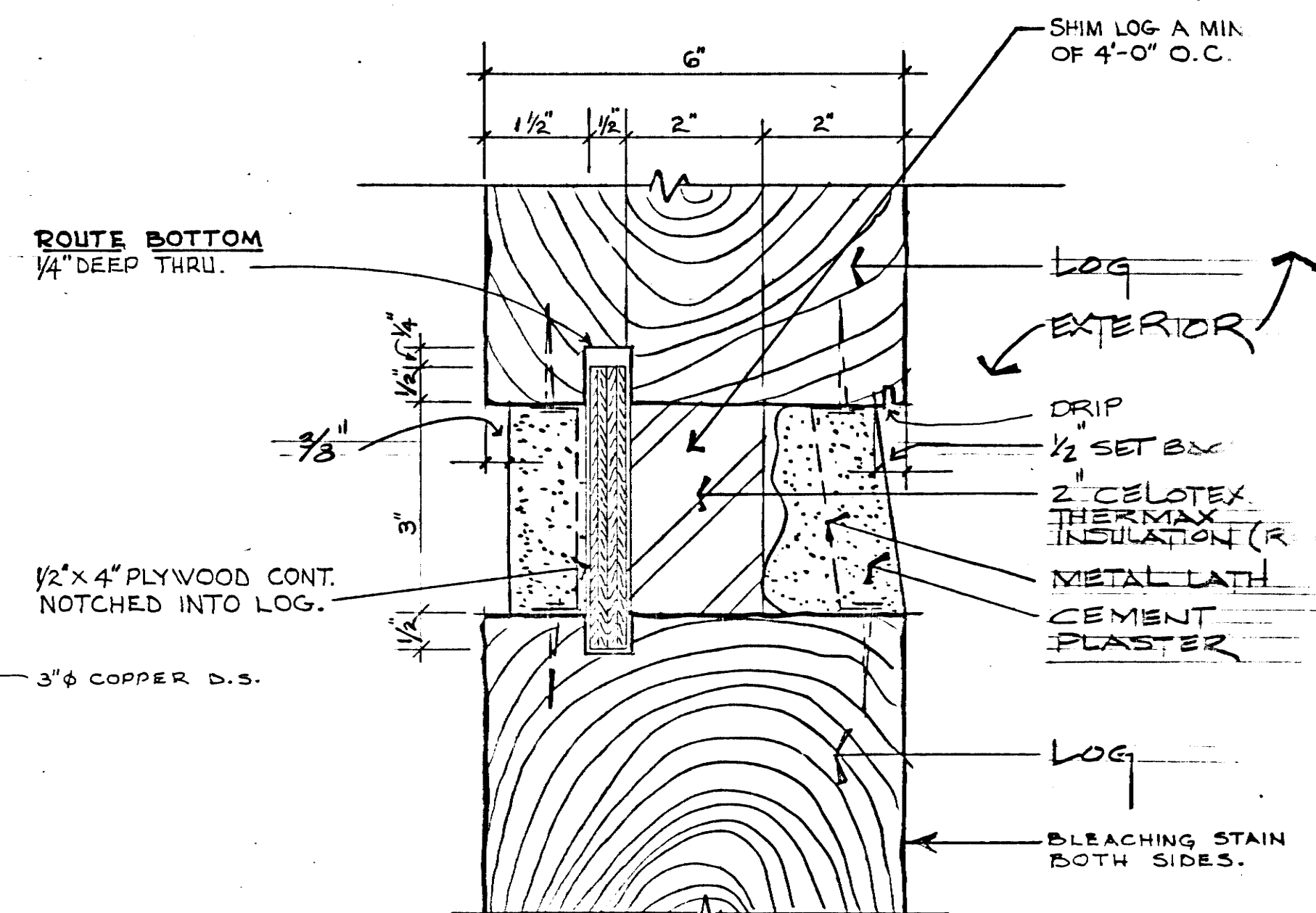
SOUTH ELEVATION

SC: 1/4" = 1'-0"



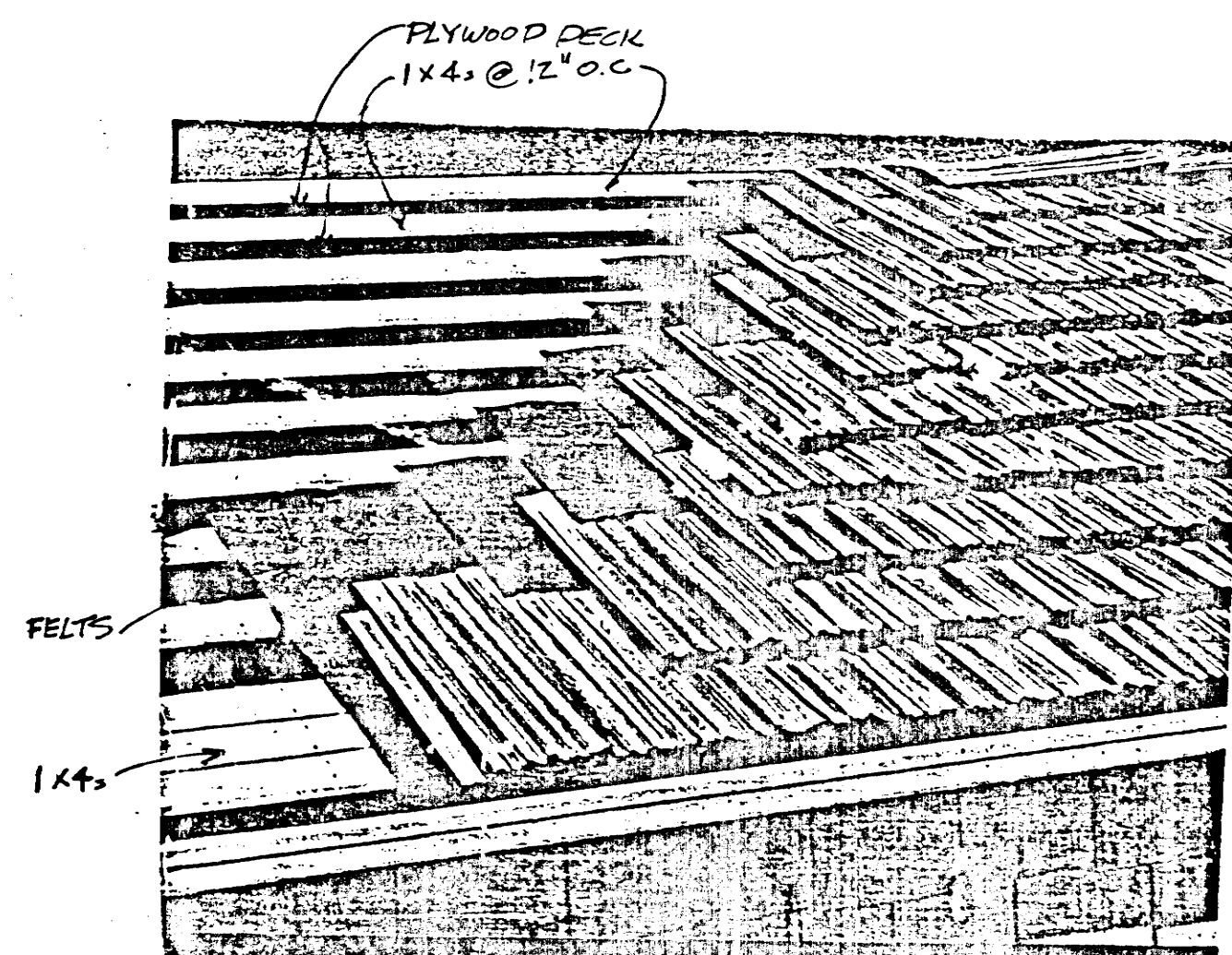
WEST ELEVATION

SC: 1/4" = 1'-0"

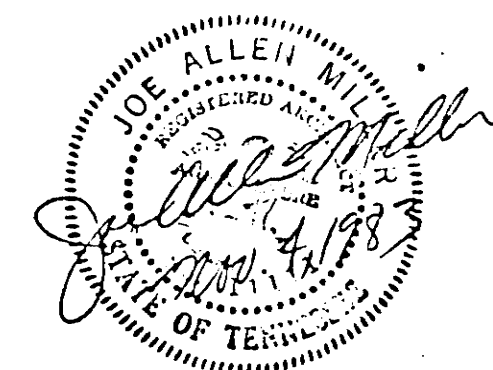


LOG CHINKING DETAIL

1/2" SIZE



ISOMETRIC ROOF DETAIL



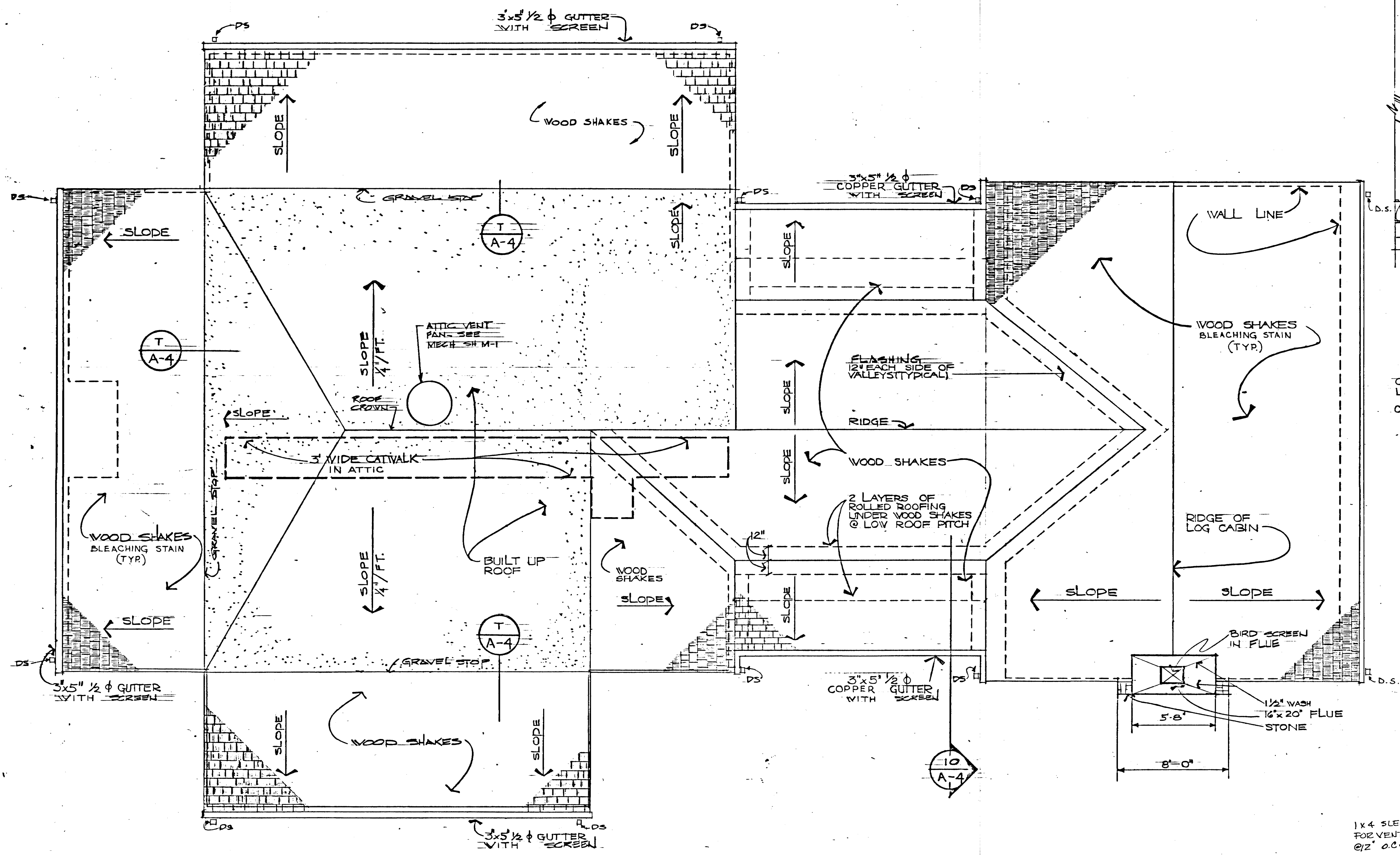
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS

SMITH CO.
REST AREA
BUILDING
I-40 REST AREA 17

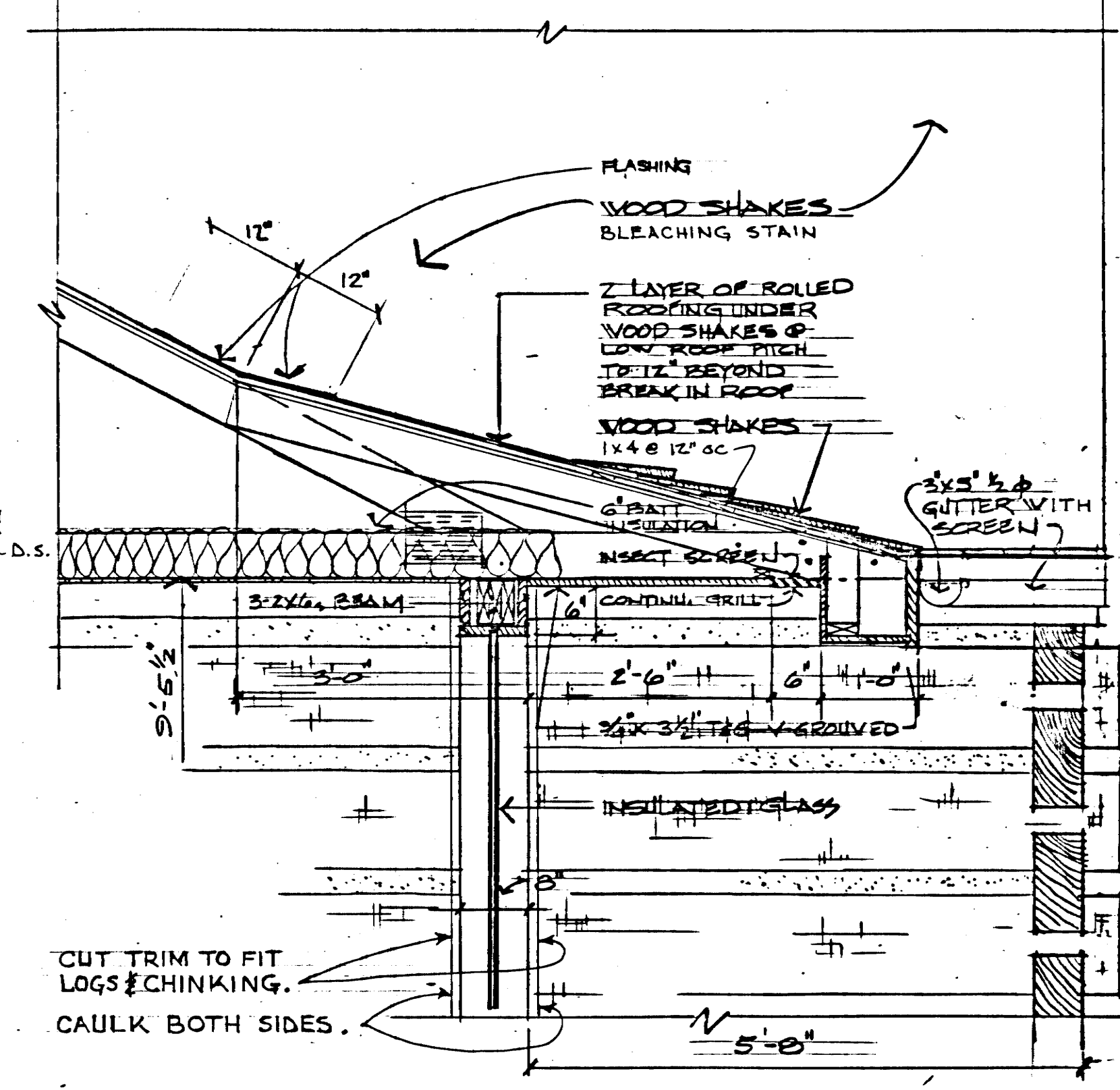
A-3

STATE HIGHWAY
 DIVISION
 PROJECT NO. 100-1000

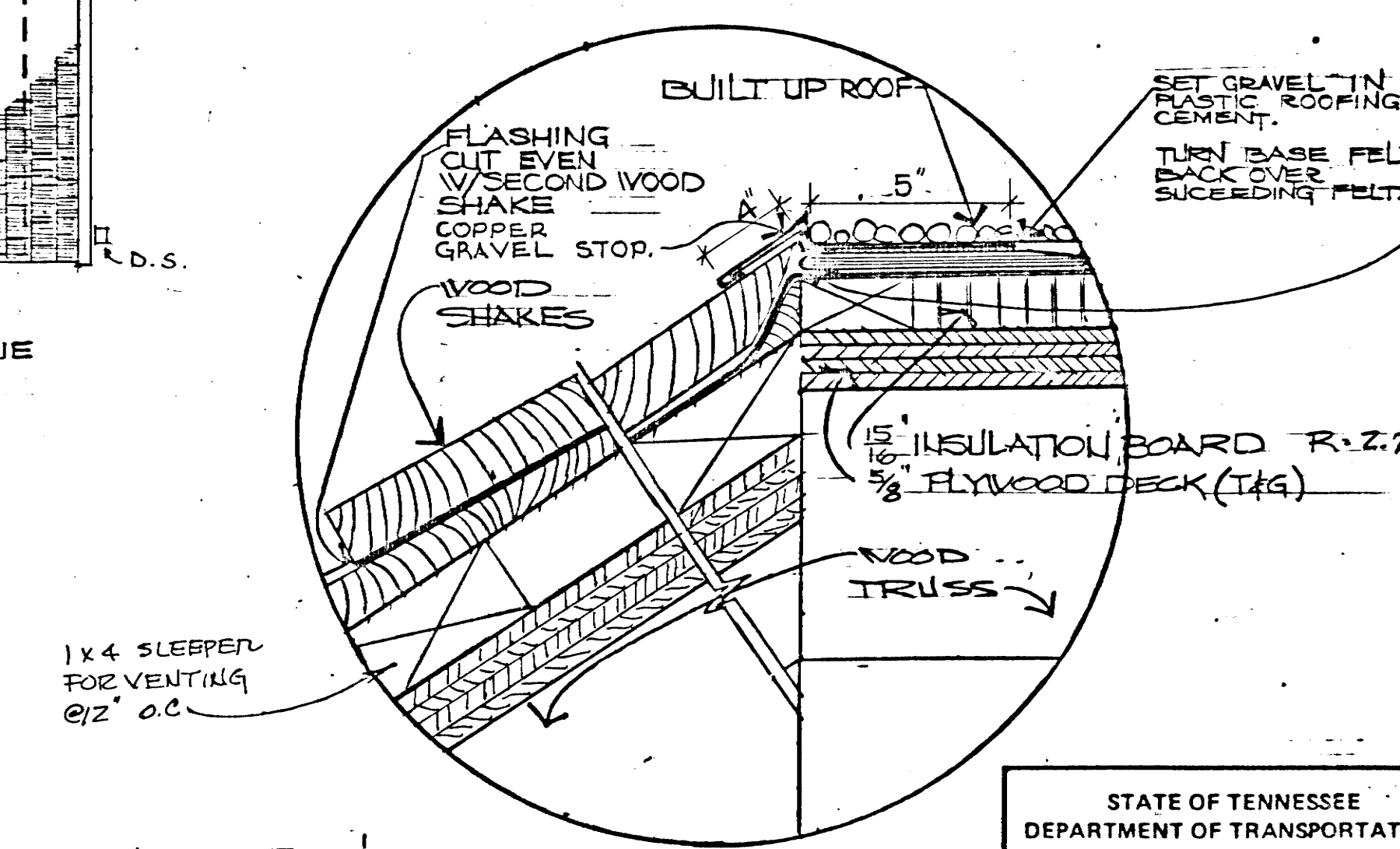
TYPE	YEAR	PROJECT NO.
CONST.	84	IR-40-5(82)267



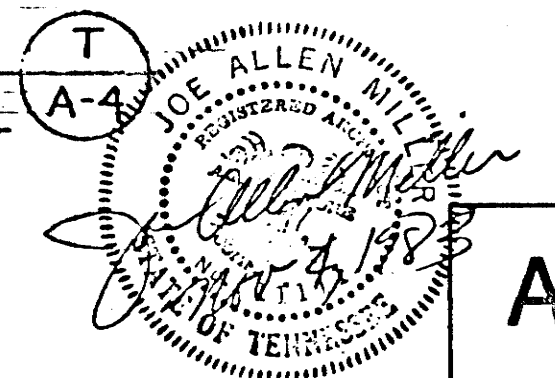
ROOF PLAN
 SC: 1/4" = 1'-0"



SECTION A-A
 SCALE 3/4" = 1'-0"



DETAIL T-T
 3/4" SIZE



STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION
 BUREAU OF HIGHWAYS

SMITH CO. REST AREA BUILDING
 I-40 REST AREA 17

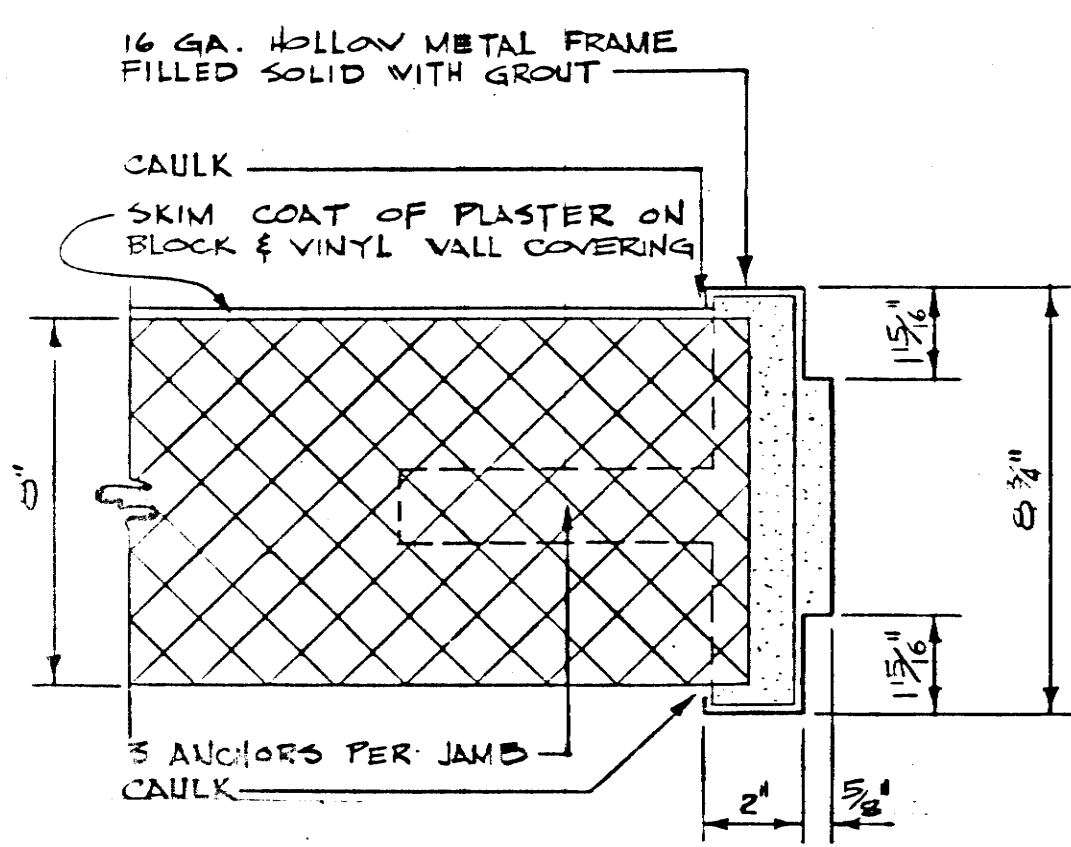
BRUNING 29411

PLANS	FILE	160
DIVN.	NO.	

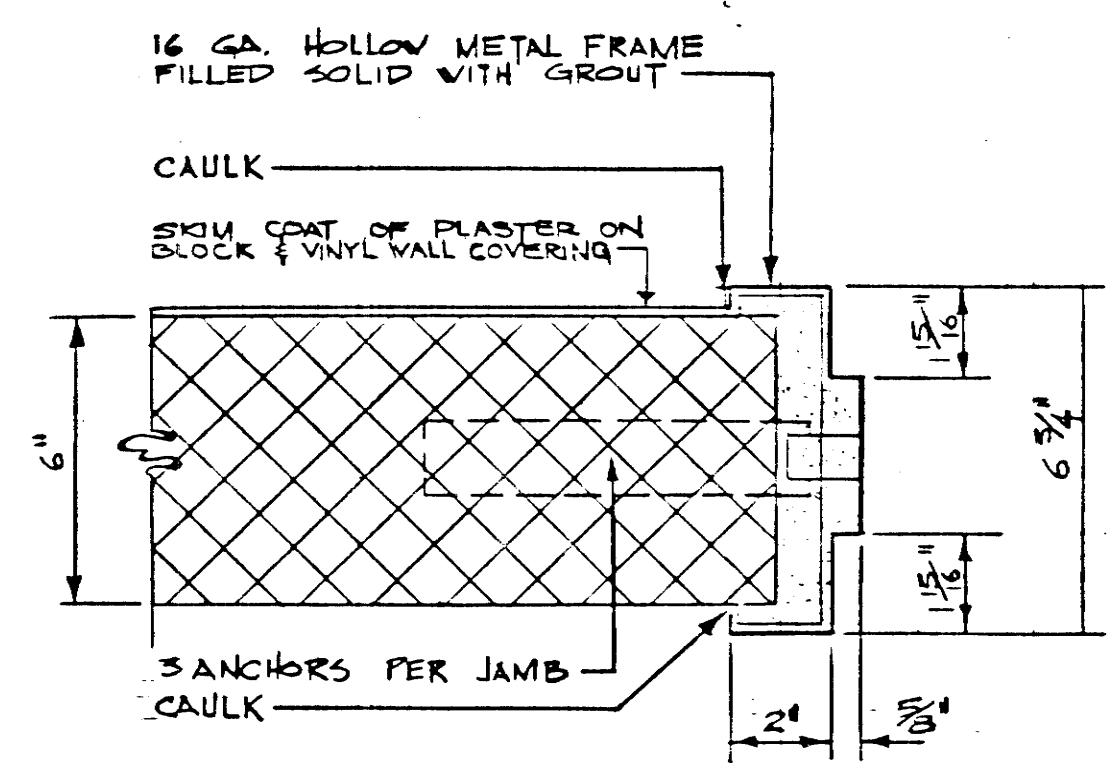


STATE HIGHWAY
FILE NO. 1-100
PROJECT NO. 1-100

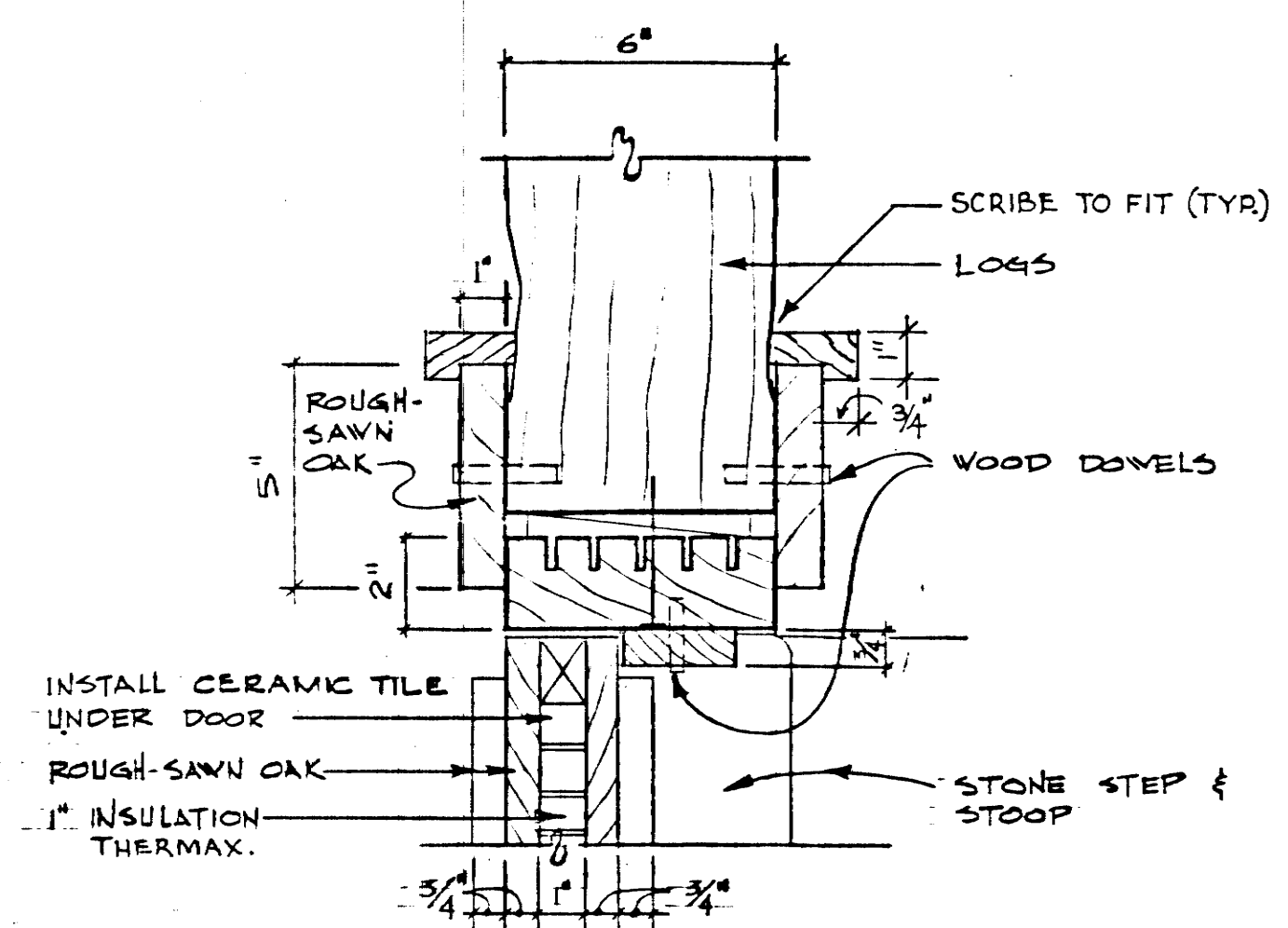
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	84	IR-40-5(82)267	12 F



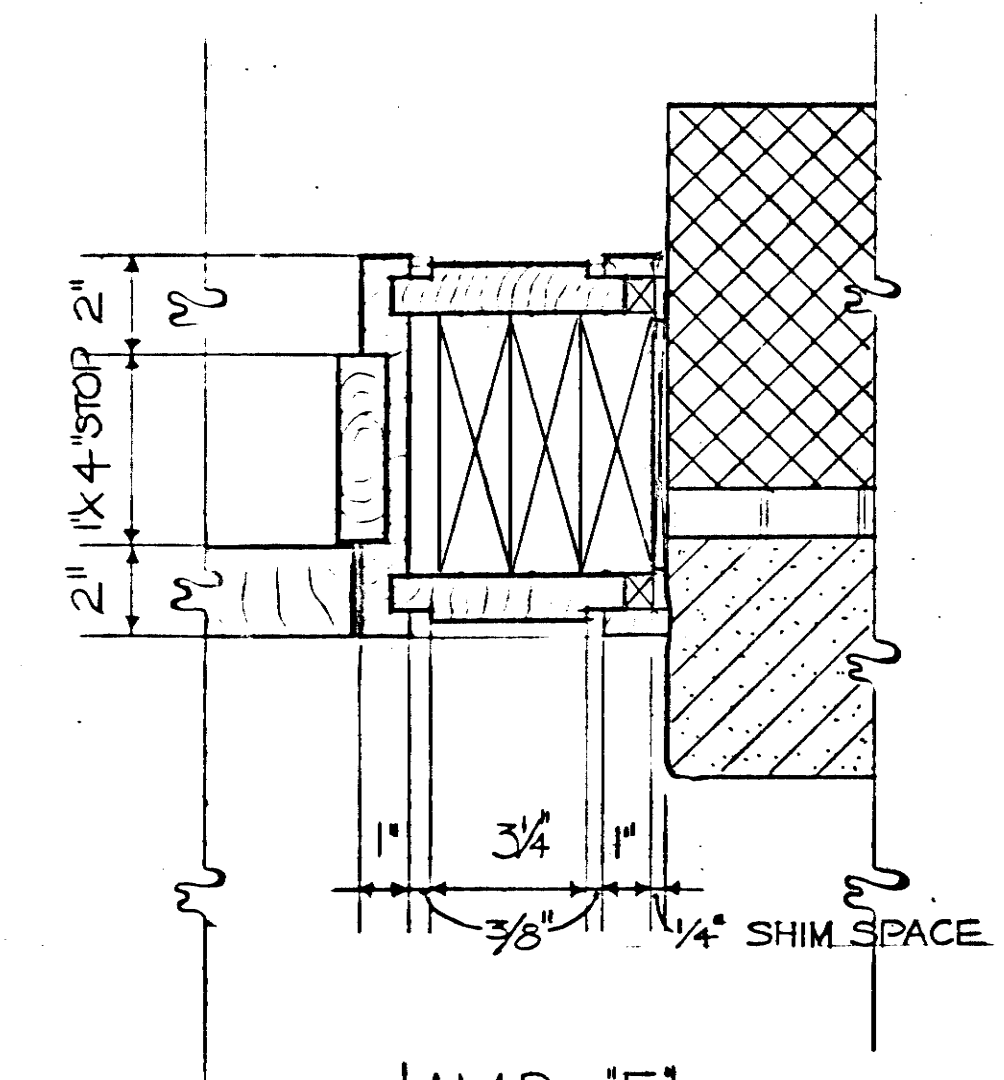
JAMB "B"
SCALE - 3" = 1'-0"



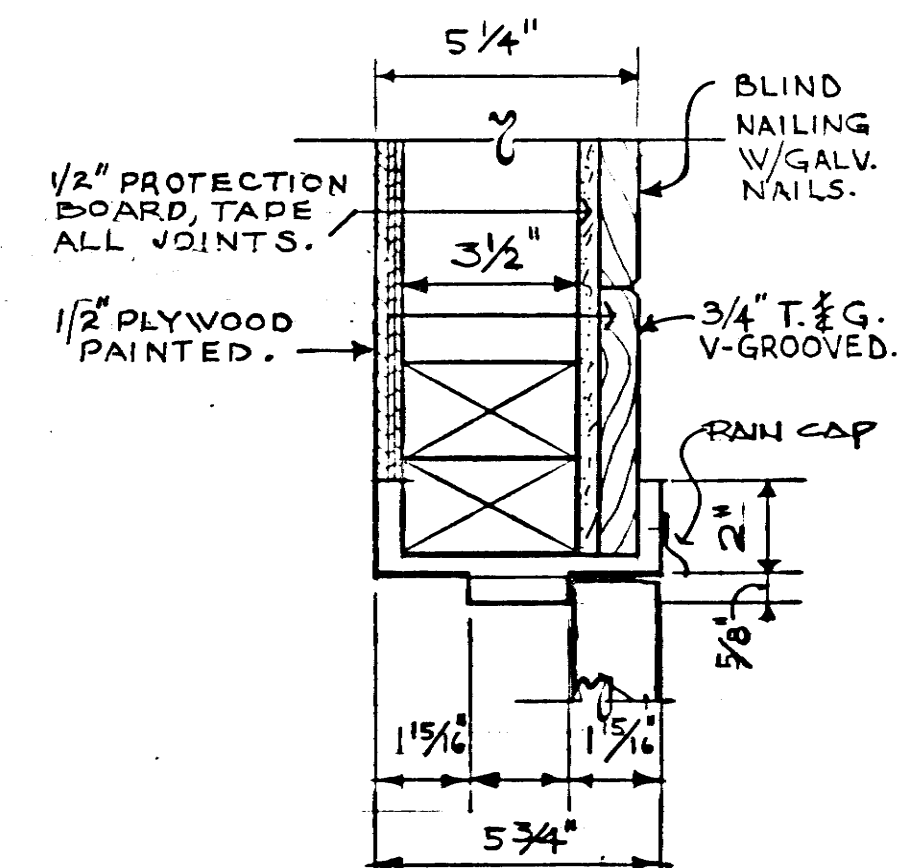
JAMB "C"
SCALE - 3" = 1'-0"



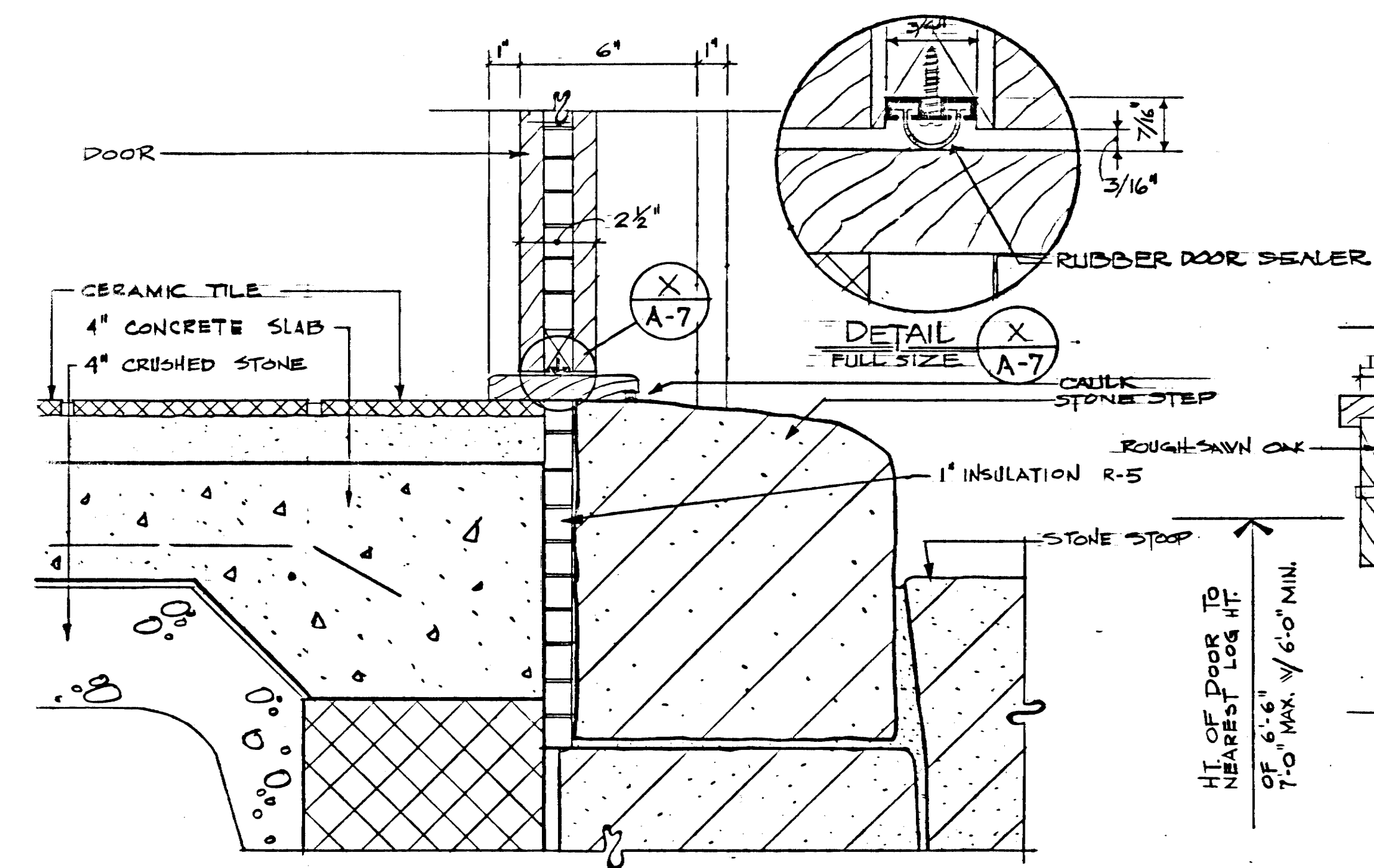
JAMB "D"
SCALE - 3" = 1'-0"



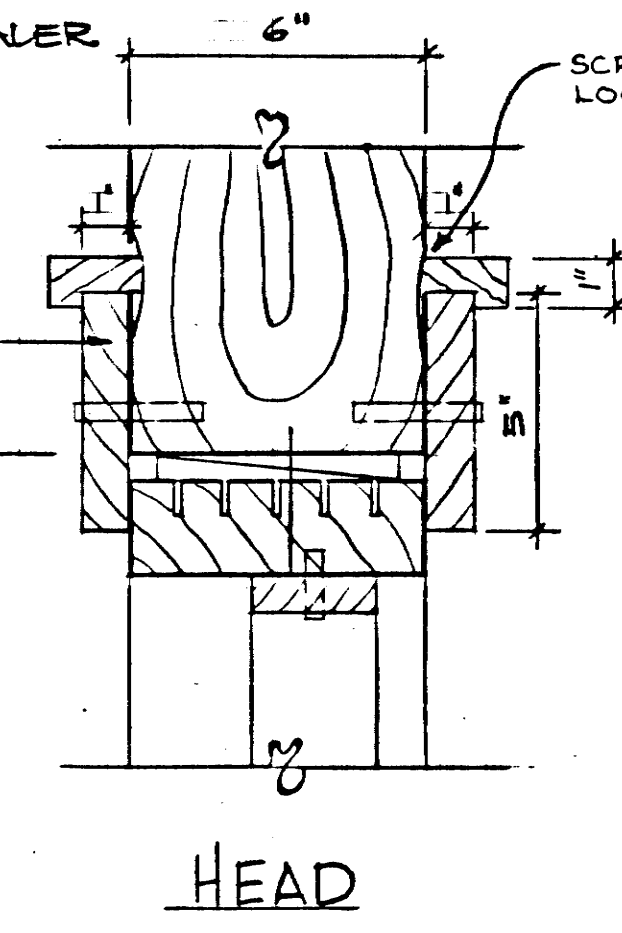
JAMB "E"
SCALE - 3" = 1'-0"



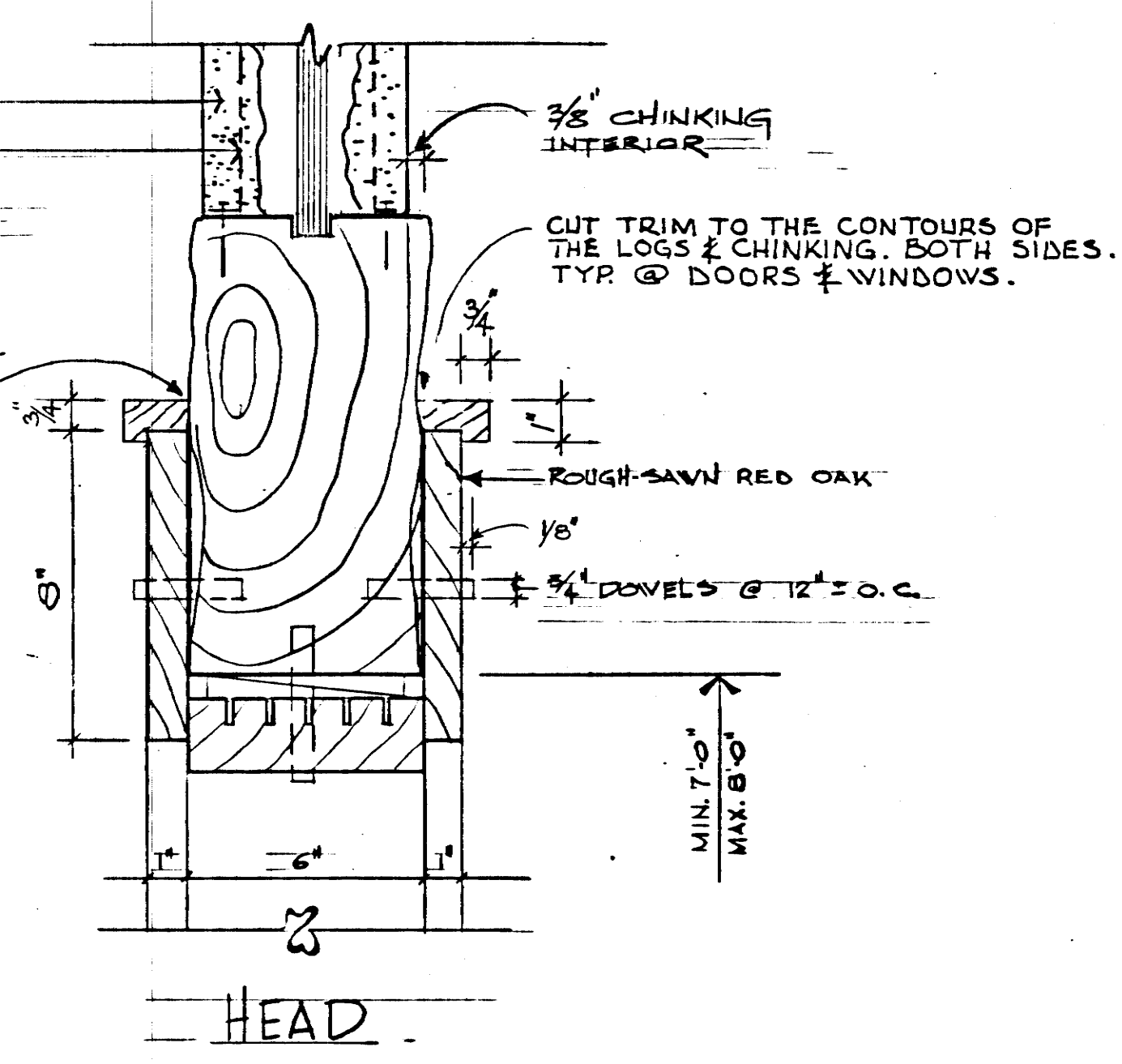
JAMB "F"
SCALE - 3" = 1'-0"



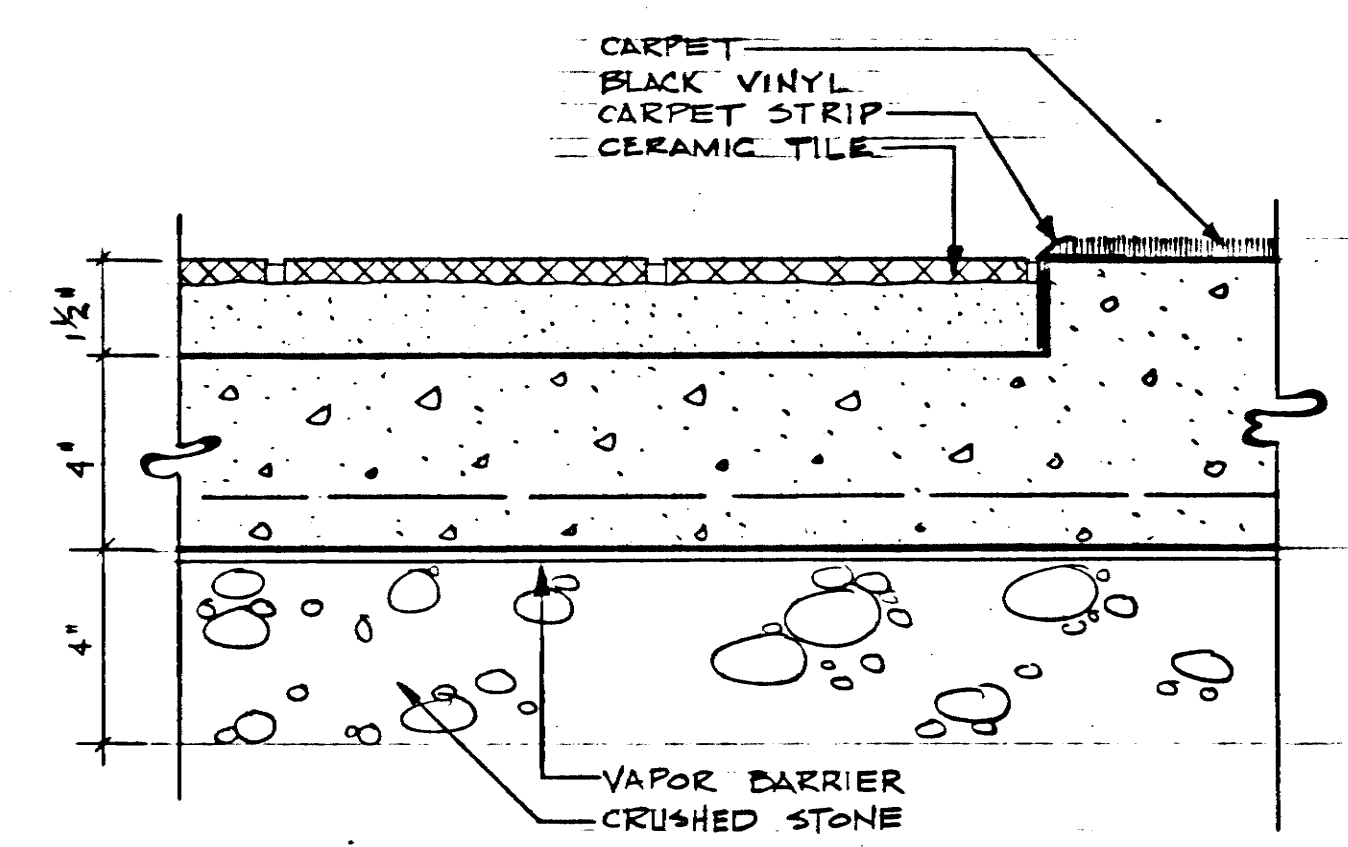
DETAIL "E"
SCALE - 3" = 1'-0"
A-5



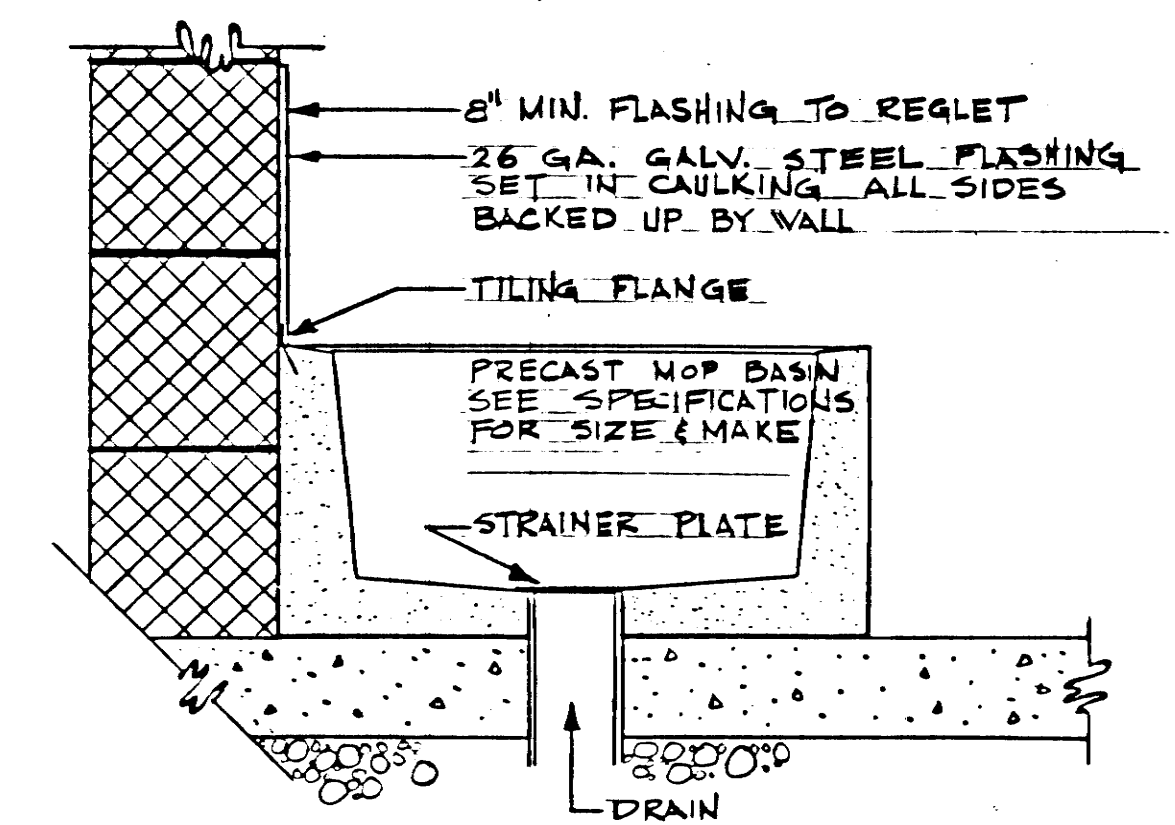
DETAIL "F"
SCALE - 3" = 1'-0"
A-1



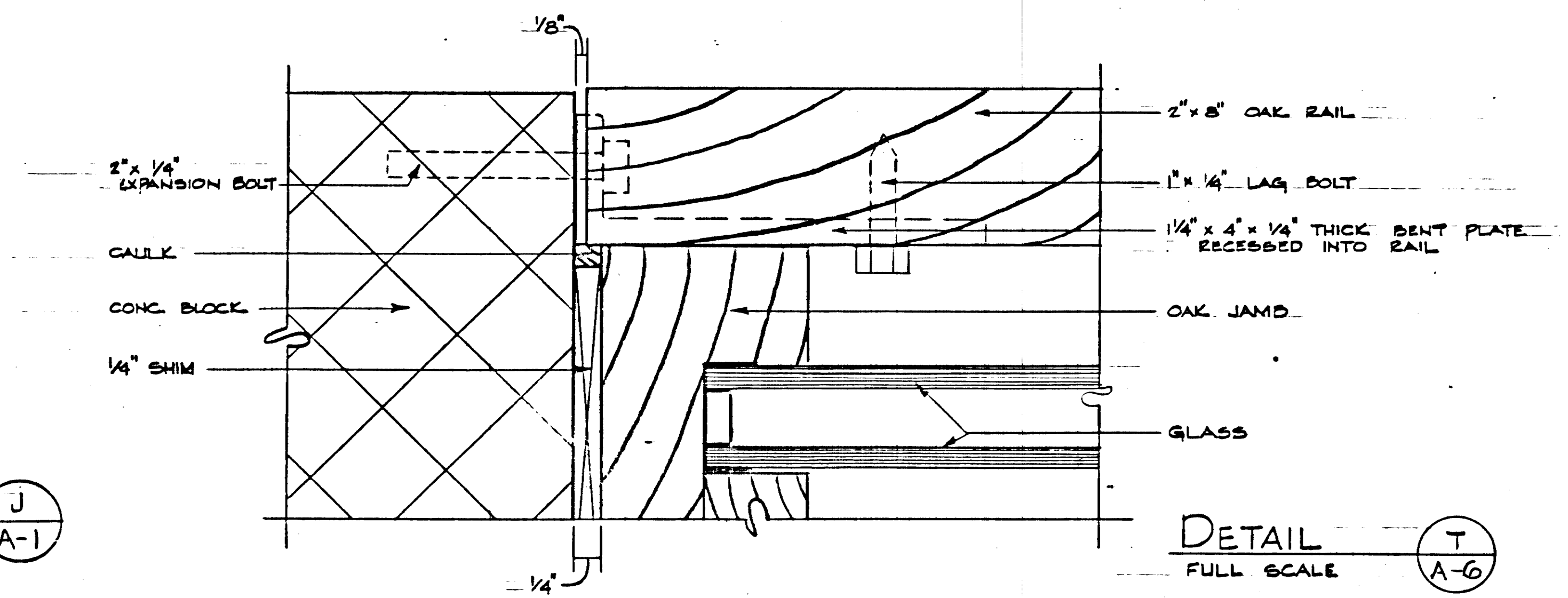
DETAIL "G"
SCALE - 3" = 1'-0"
A-1



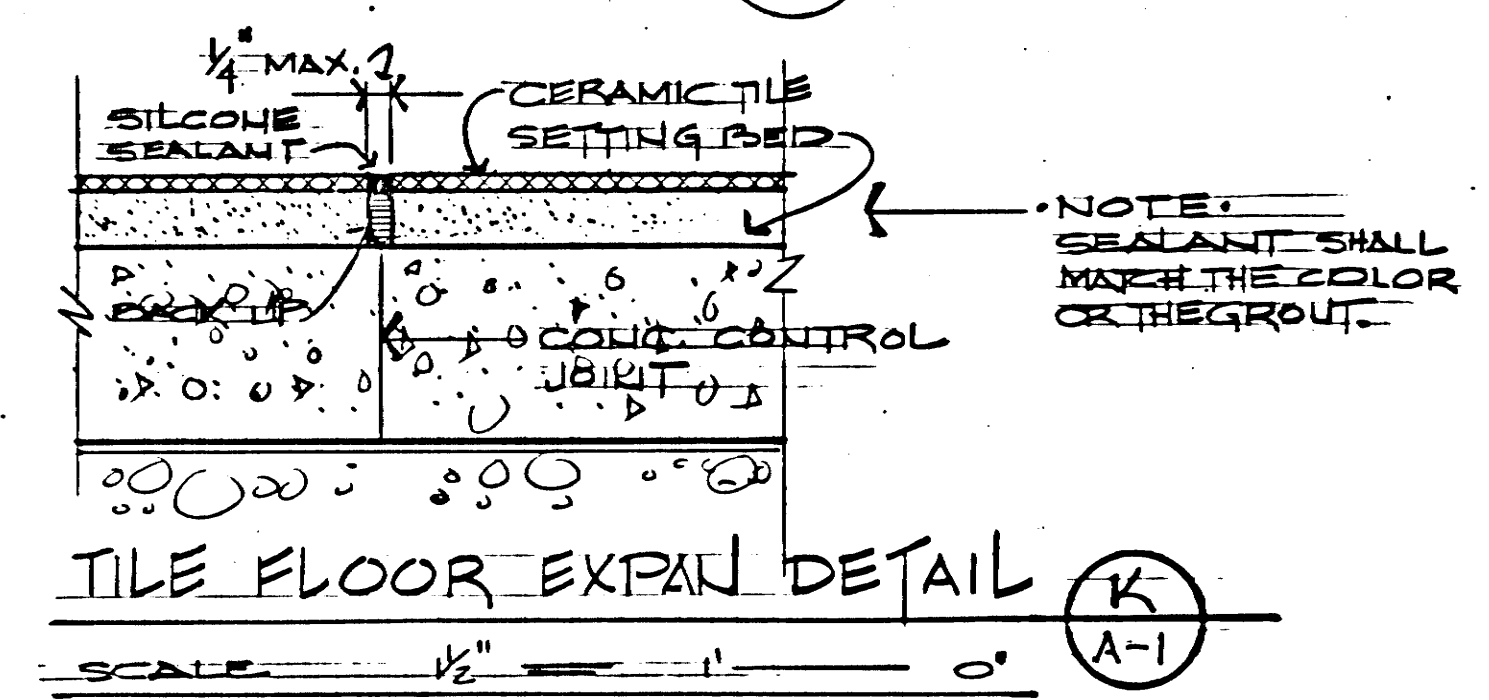
DETAIL "H"
SCALE - 3" = 1'-0"
A-1



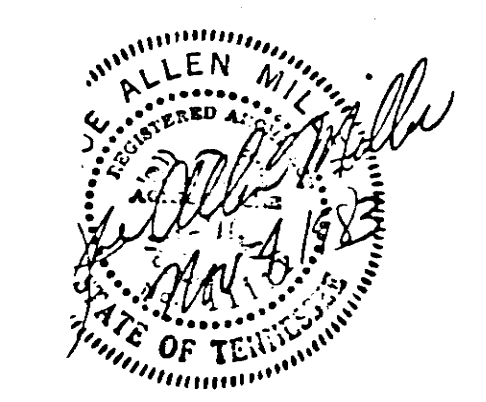
PRECAST MOP BASIN DETAIL
NO SCALE
J
A-1



DETAIL "T"
FULL SCALE
A-6



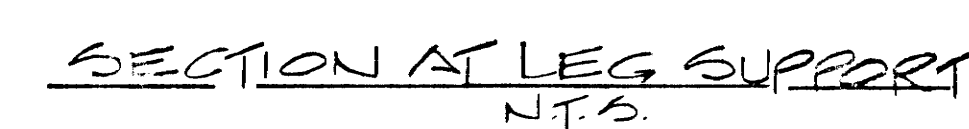
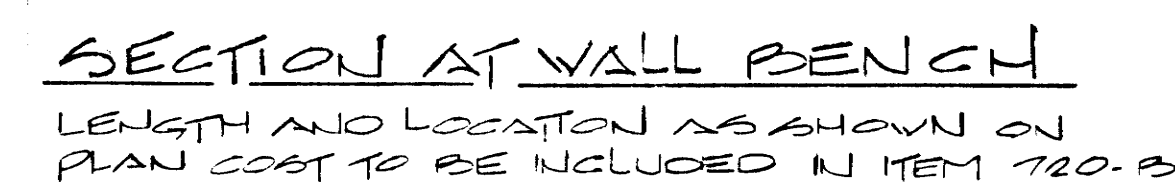
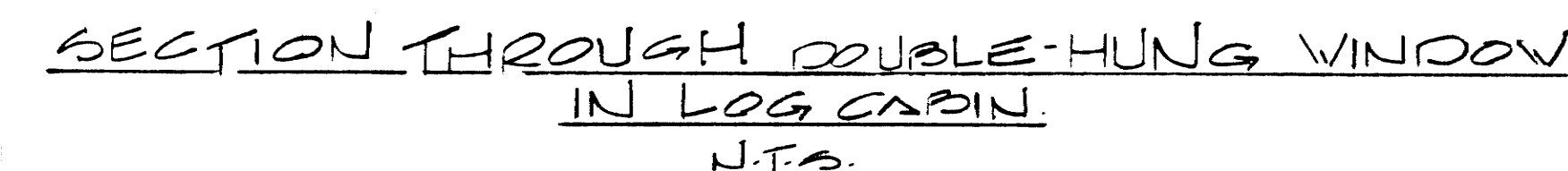
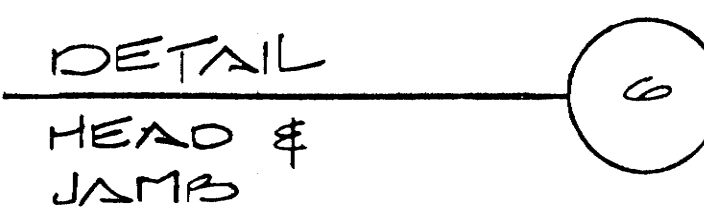
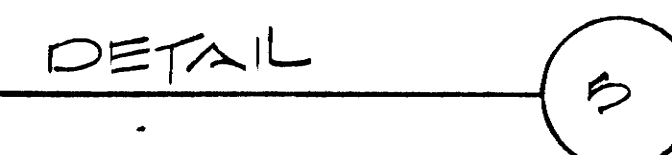
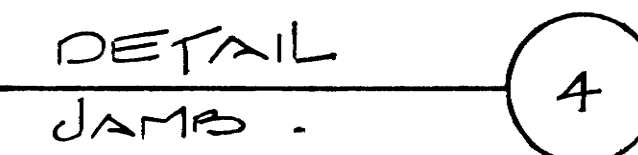
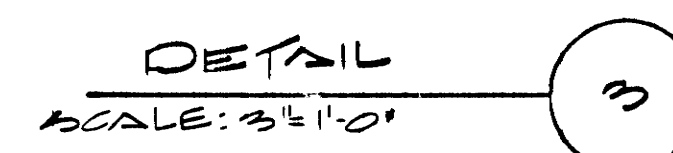
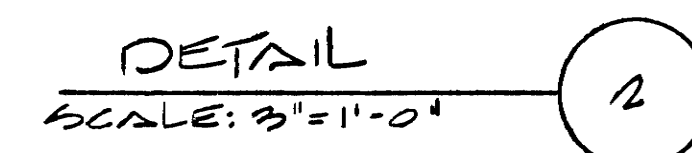
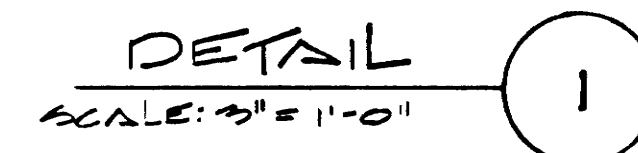
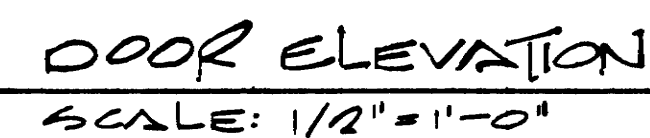
TILE FLOOR EXPAN DETAIL
SCALE - 1/2" = 1'-0"
K
A-1



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS

SMITH CO. REST AREA
BUILDING
I-40 REST AREA 17

A-7



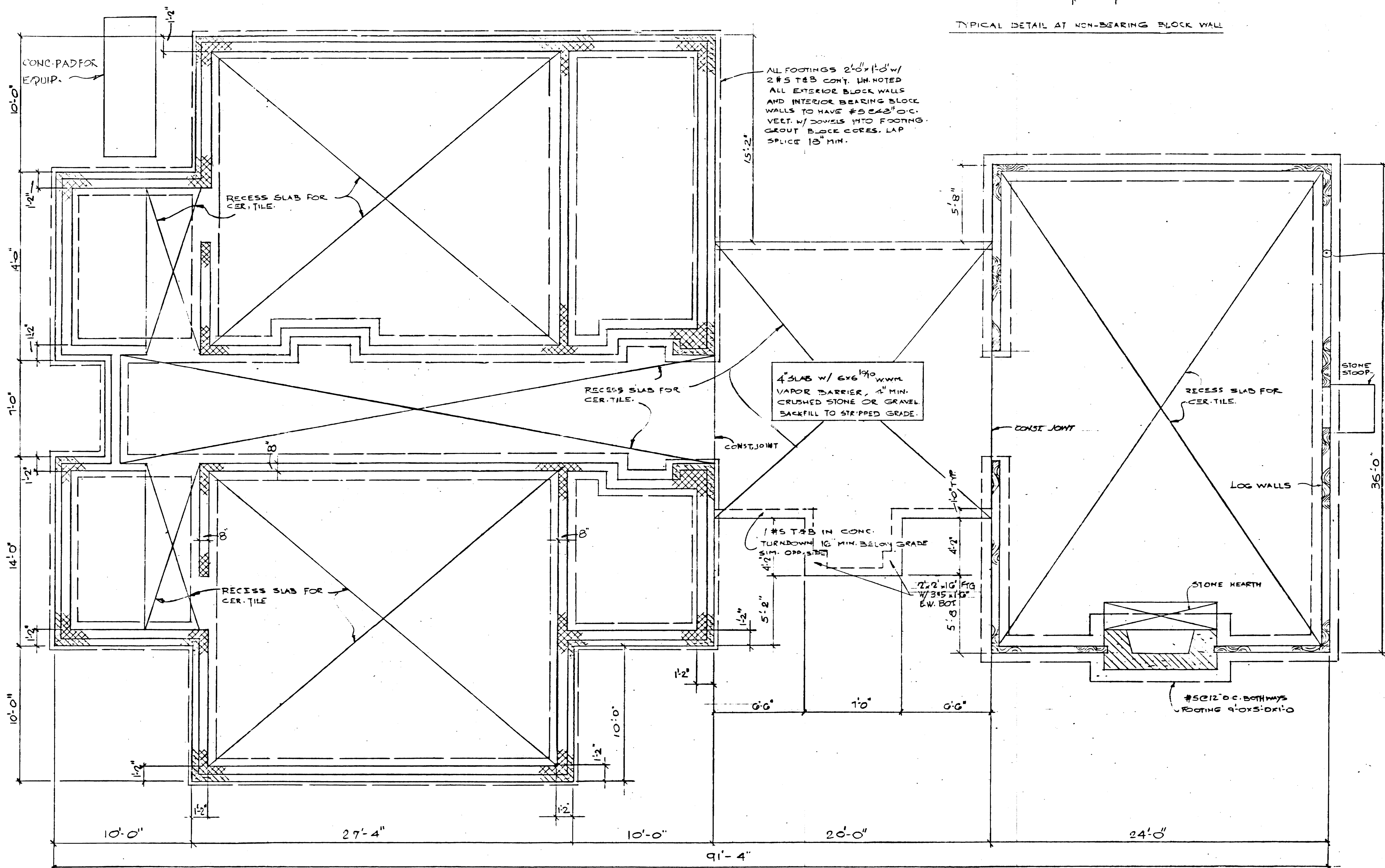
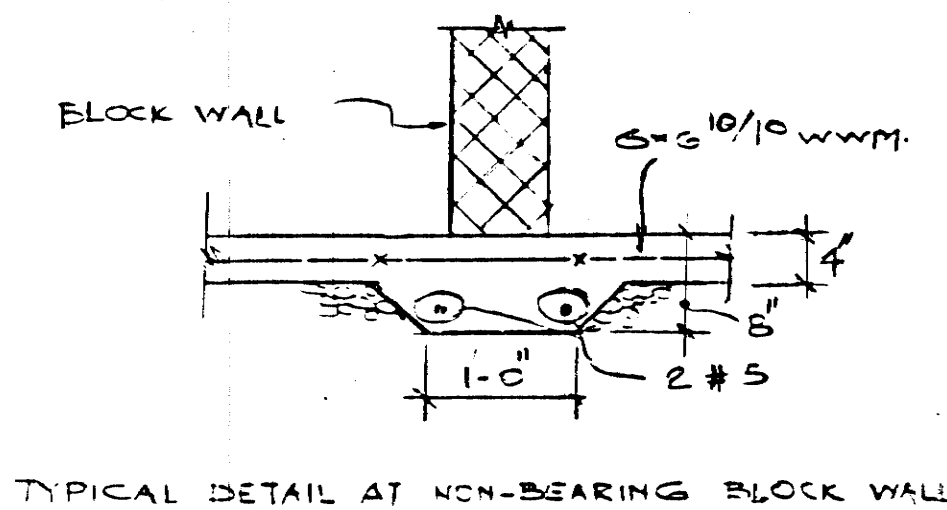
REV. 3-8-84: ADDED DIMENSION TO
ELEVATION OF WOOD SCREEN.
REV. 4-11-84: REVISED DIMENSIONS ON
DOOR ELEVATION DETAIL.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS

**SMITH CO.
REST AREA
BUILDING
I-40 REST AREA 17**

STATE HIGHWAYS
SHEET NO. 10

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	84	IR-40-5(82)267	12 H



1/2" STEEL RODS @ 6'-0" O.C.
IN DRILLED HOLES IN LOGS.
ALL WALLS OF LOG CABIN.

STRUCTURAL NOTES

- Concrete shall develop 3,000 psi in 28 days. Exposed exterior concrete shall have 5% ± 1% entrained air.
- Footings are designed for earth bearing. Design bearing pressure 2,000 psf. Footings shall bear on firm undisturbed earth, not fill, debris or topsoil. If rock is encountered, excavate to 12" below bottom excavation of footing and provide 12" compacted earth pad.
- Slabs on grade not otherwise noted shall be 4" thick reinforced with 6 x 6 10/10 wire mesh.
- Load bearing block walls shall be constructed of structural grade block, conforming to ASTM C-90.
- Structural steel shall be ASTM A-36.
- Reinforcing Steel: ASTM A-615, Grade 60.
- Provide corner bars in bond beams and footings.
- Elevation of floor slabs shall be depressed to receive scheduled floor finishes. See Architectural Drawings and finish Schedule.
- Floor drains have not been shown on the Foundation Plan. Floors shall be sloped to drains in accordance with the requirements of the Architectural and Plumbing drawings.
- All external walls to have #5 at 48" o.c. vertical rebars to be dowelled into footing and carried into bond beam, spliced as required with 18" minimum lap. Grout cores around rebars with concrete or mortar full height of wall from footing.
- Design Live Loads:

a. Roof	=	25 psf
b. Wind	=	25 psf
c. Floors	=	100 psf
- See Architectural, Mechanical, Electrical, Plumbing, etc., drawings for concrete pads, curbs, pedestals, etc., and for steel frames, grilles, brackets, etc.

FOUNDATION PLAN

SCALE: 1/4" = 1'-0"

NOTE: TOP OF ALL FOOTING 10" MIN. BELOW FINISH FLOOR



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS

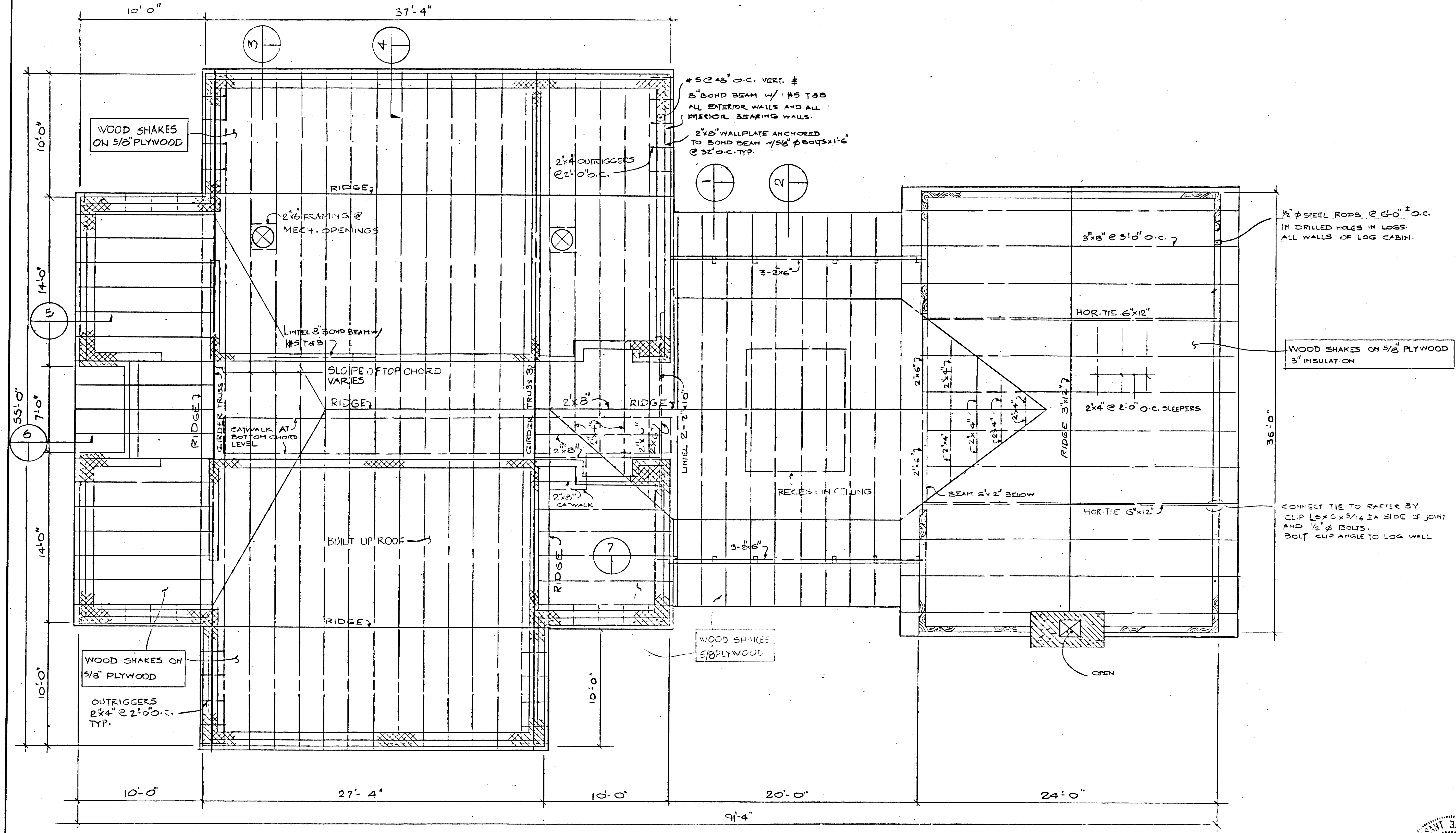
SMITH CO.
REST AREA

BUILDING
I-40 REST AREA 17

T&E: GATE HIGHWAYS
 Plans: 11-1
 Divn: No. 60

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	84	IR-40-5(82)267	12J

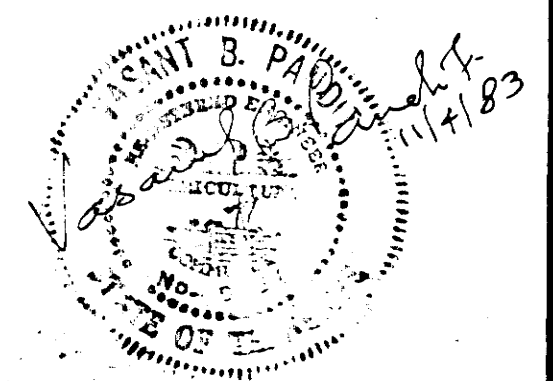
REV. 7-8-84: DELETED
 REFERENCE TO SINGLE
 BRAND NAME.



ROOF FRAMING PLAN
 SCALE 1/4"=1'-0"
 TRUSSE SPACED AT 24' O.C.



PROVIDE STEEL PLATE ANCHORS FOR CONNECTING
 TRUSSES & RAFTERS TO WALL PLATES.
 EACH END EACH SIDE TYP. ANCHORS TO BE
 NAILED TO SIDE OF TRUSS, TOP OF WALL PLATE
 AND SIDE OF WALL PLATE (IN SHEAR).



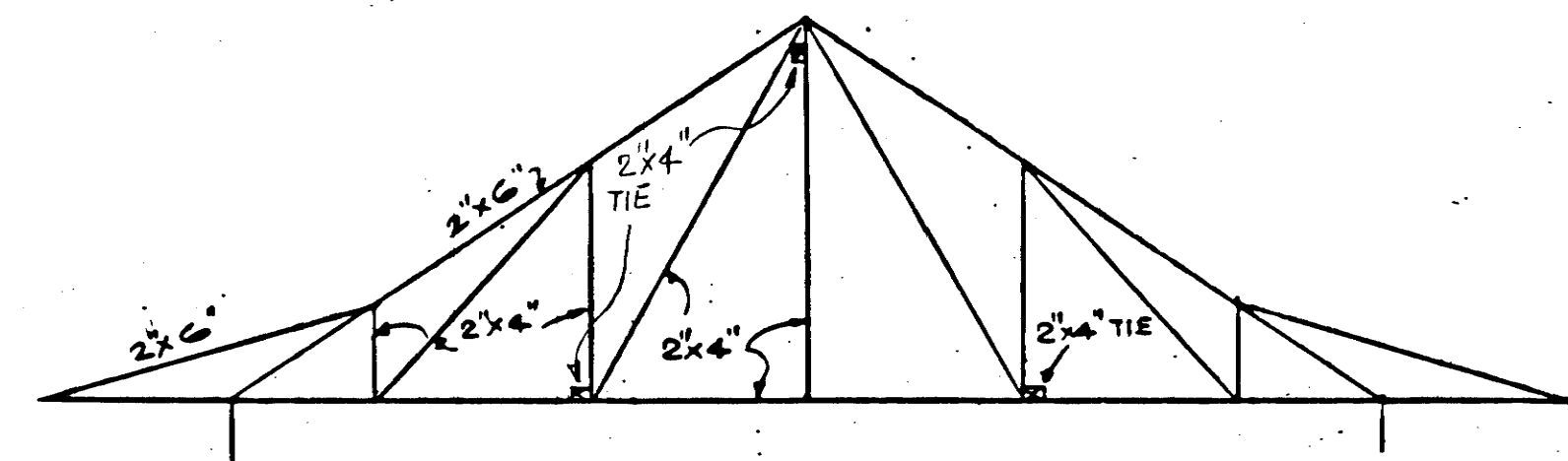
STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION
 BUREAU OF HIGHWAYS

**SMITH CO.
 REST AREA
 BUILDING**

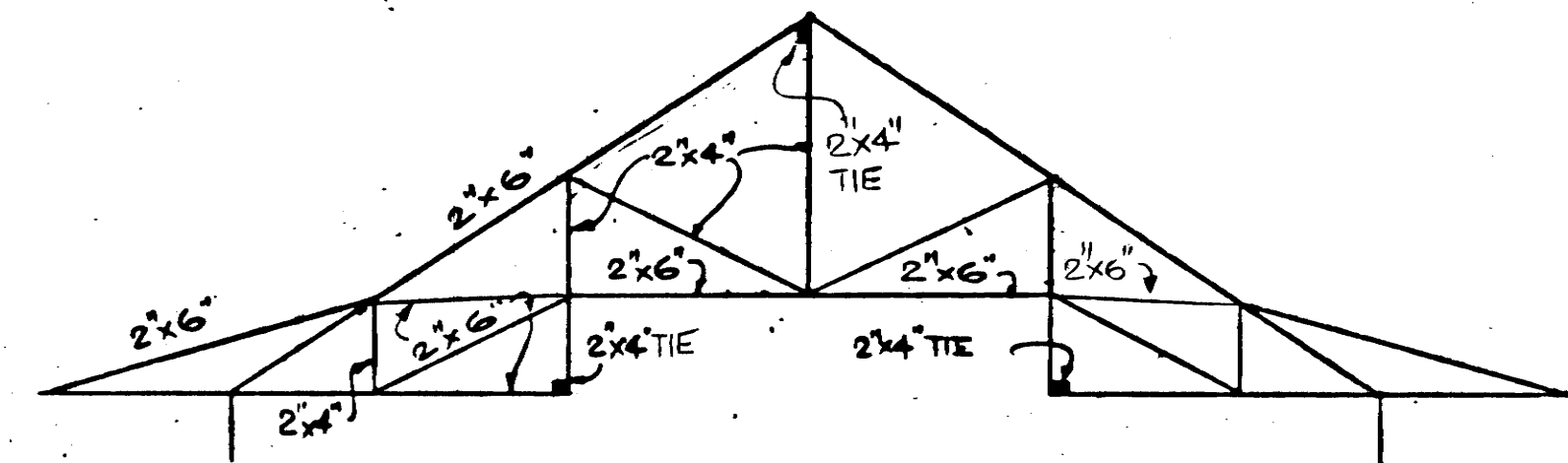
I-40 REST AREA 17

BRUNING 25411

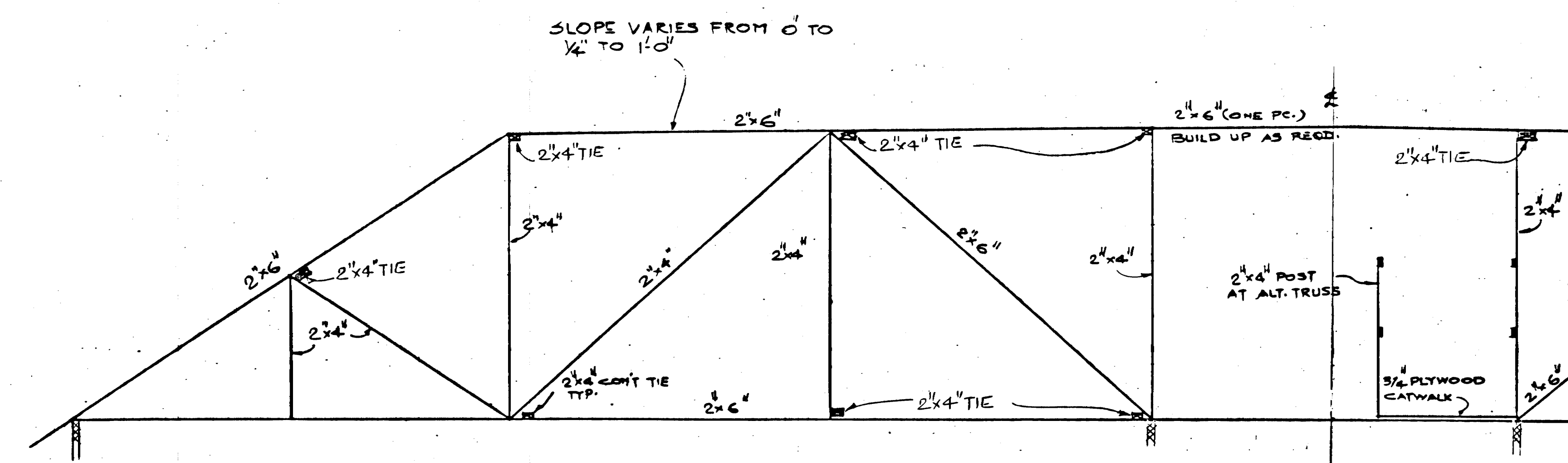
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	84	IR-40-5(82)267	12K



SCALE: 1/4" = 1'-0"

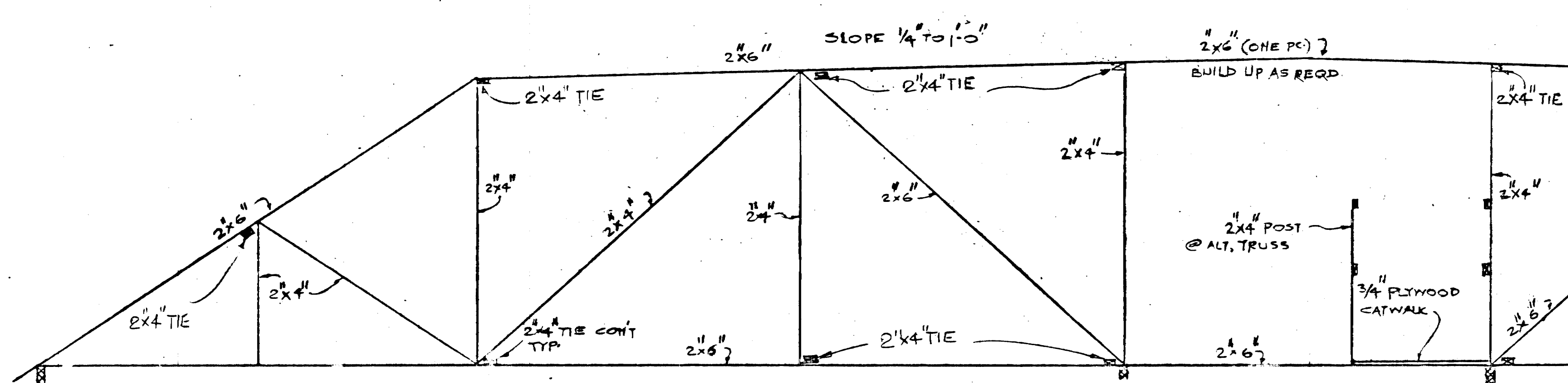


SCALE: 1/4" = 1'-0"

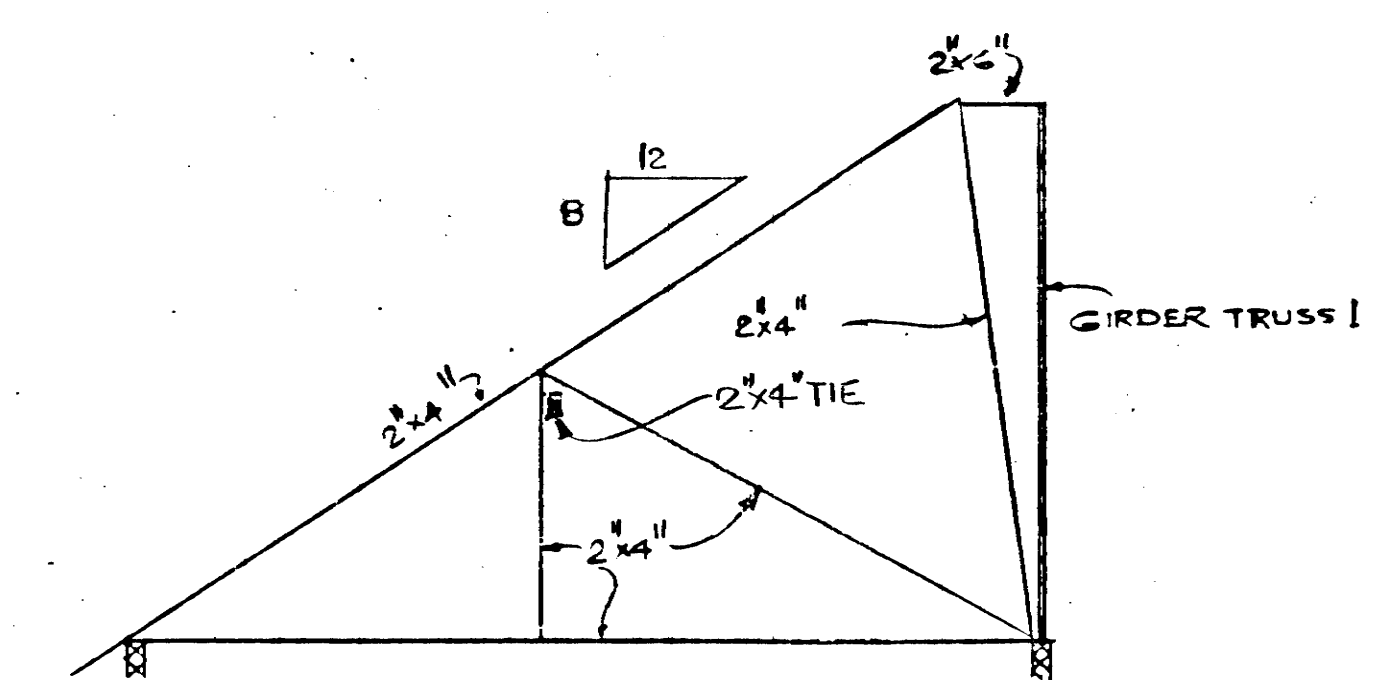


SCALE: 1/2" = 1'-0"

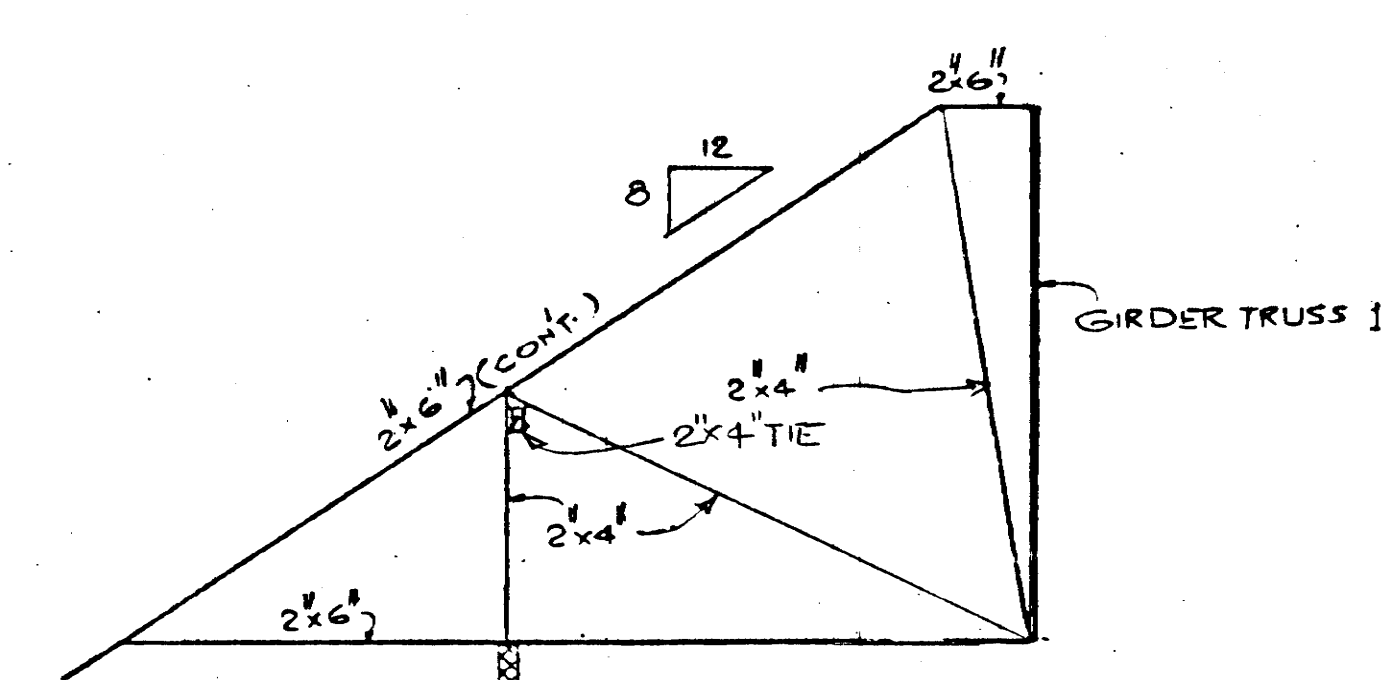
NOTE: GIRDER TRUSS 1 & 3 - NAIL TOGETHER TWO TRUSSES AS IN SECTION 4 WITH 10d NAILS @ 8" O.C. HOLD TOP CHORD LEVEL.
GALVANIZED GANGNAIL STEEL PLATES EACH JOINT BOTH SIDES.



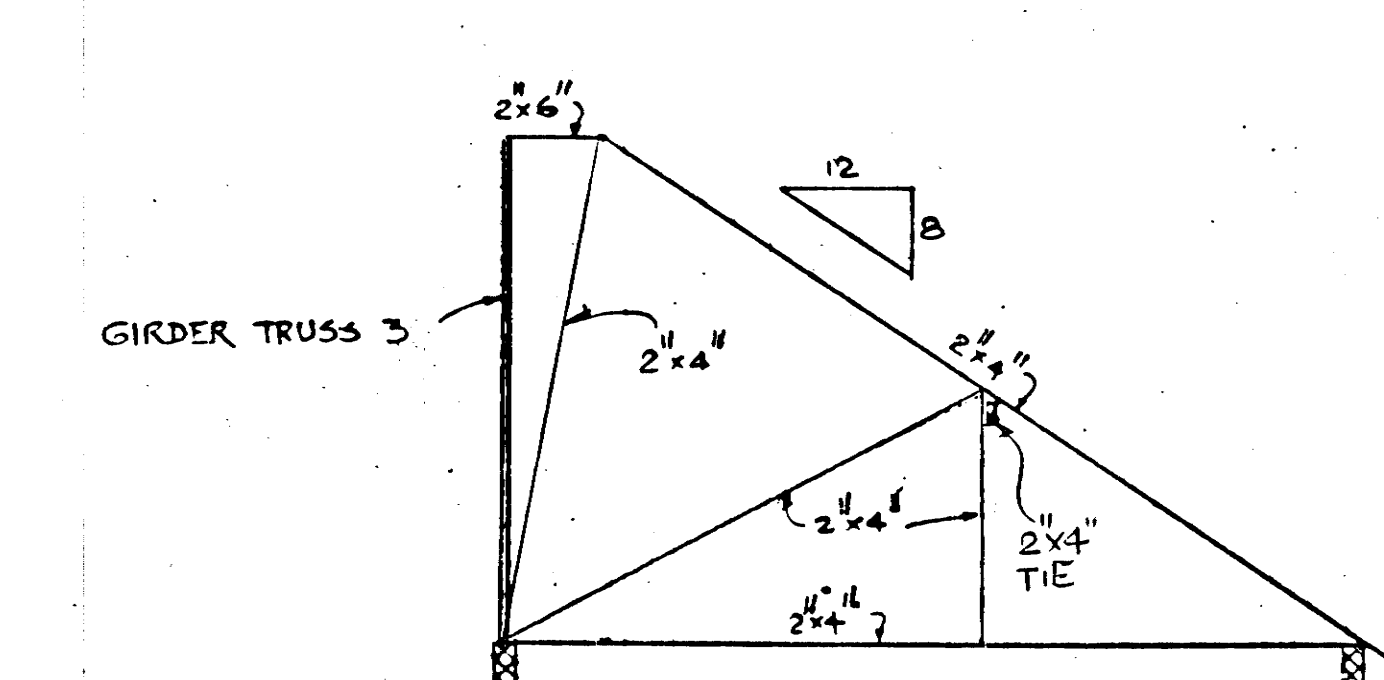
SCALE: 1/2" = 1'-0"



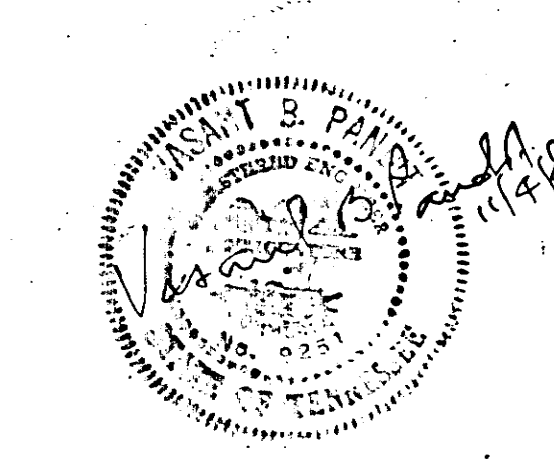
SCALE: 1/2" = 1'-0"



SCALE: 1/2" = 1'-0"



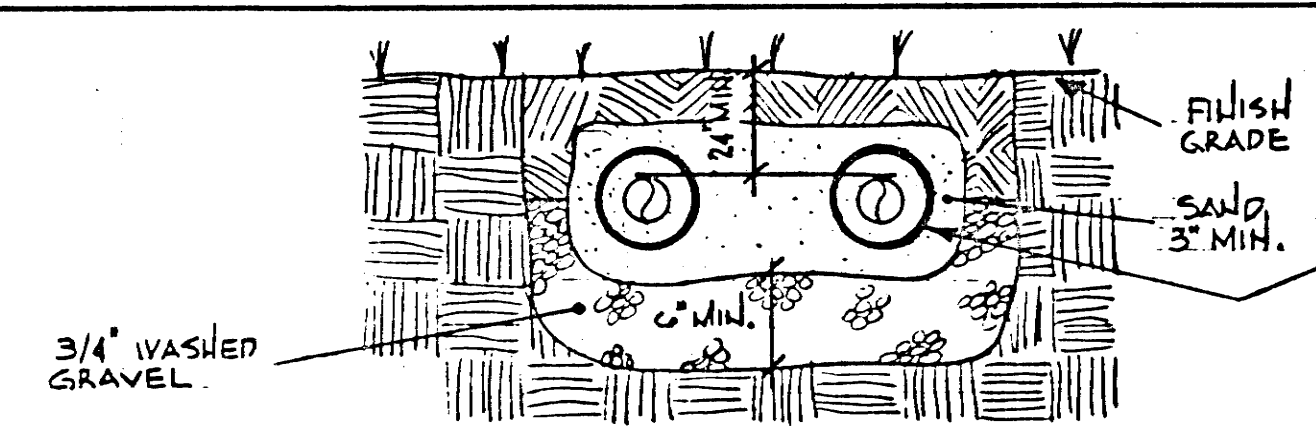
SCALE: 1/2" = 1'-0"



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS
SMITH CO. REST AREA
BUILDING
I-40 REST AREA 17

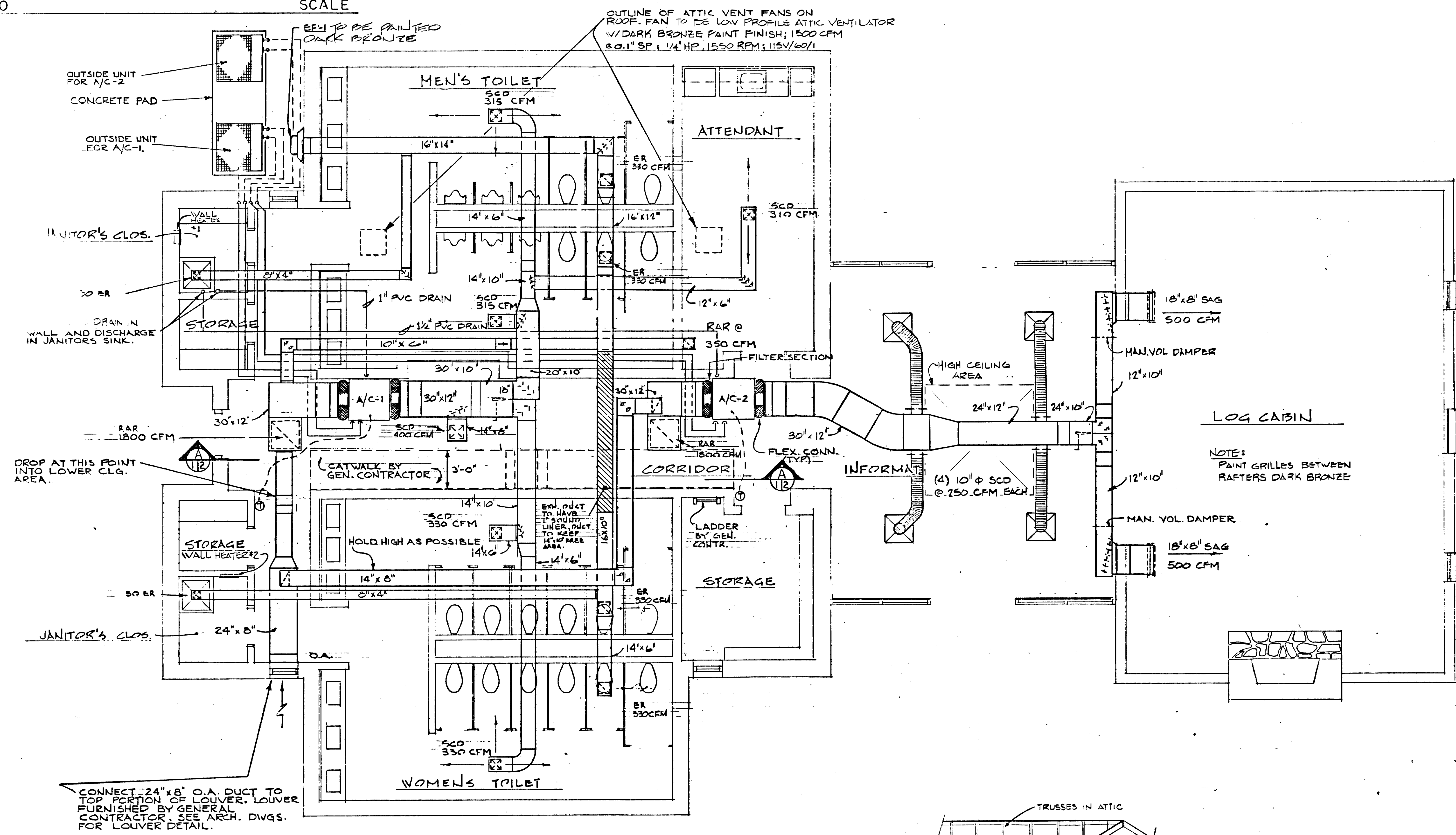
File No. 100
Plans
Divn.
HVAC FLOOR PLAN

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	84	IR-40-5 (82)267	12 L

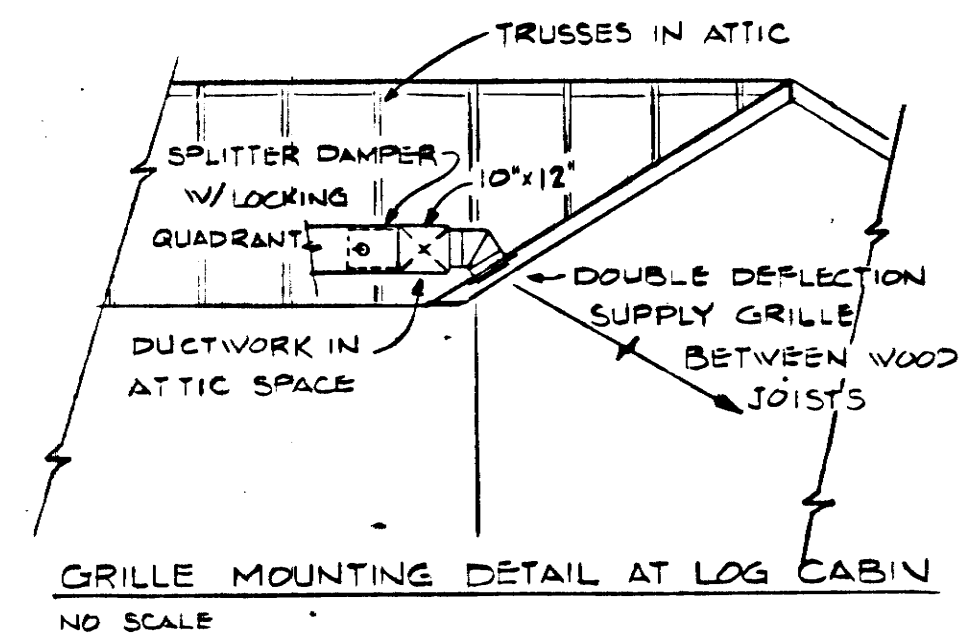


UNDERGROUND PIPING TO BE TYPE "K" COPPER INSULATED WITH 1/2" FOAMGLASS INSULATION. INSULATION SHALL HAVE BUTT JOINTS TIGHTLY BUTTED. INSULATION TO BE WRAPPED WITH LAYERS OF 45 LB. IMPREGATED ROOFING FELT, JOINTS LAPPED, SEALED & TOTAL APPLICATION COATED WITH WATER PROOF MASTIC AND SECURED W/ COPPER WIRE

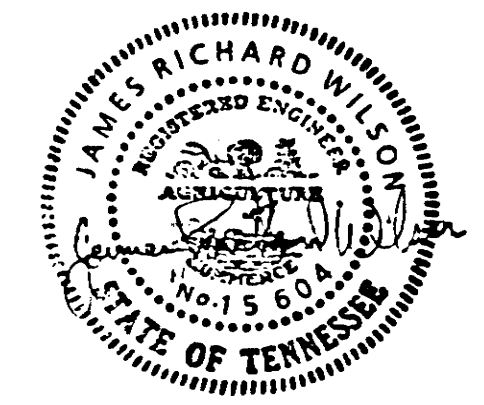
UNDERGROUND REFRIGERANT PIPING NO SCALE



HVAC FLOOR PLAN



- NOTES:
1. ALL DUCTWORK & A/C UNITS ARE ABOVE CEILING IN ATTIC SPACE.
 2. ALL SUPPLY & RETURN DUCTS TO BE INTERNALLY LINED WITH 1/2" OF LINER.
 3. COORDINATE EXACT DIFFUSER & GRILLE LOCATIONS W/ ELECTRICAL CONTRACTOR AND LIGHTING LAYOUT.
 4. ALL SUCTION & A/C COND. DRAIN PIPING TO BE INSULATED. ALL LIQUID PIPING IN ATTIC SPACE TO BE INSULATED. SEE SPEC'S FOR INSULATION TYPE.
 5. ALL EXTERIOR EQUIPMENT SHALL BE PAINTED DARK BRONZE.
 6. THERMOSTATS SHALL BE MOUNTED AT SAME ELEVATION AS LIGHT SWITCHES IN A NEAT ORDERLY MANNER, AND SHALL BE LOCATED ADJACENT TO A LIGHT SWITCH WHERE POSSIBLE.

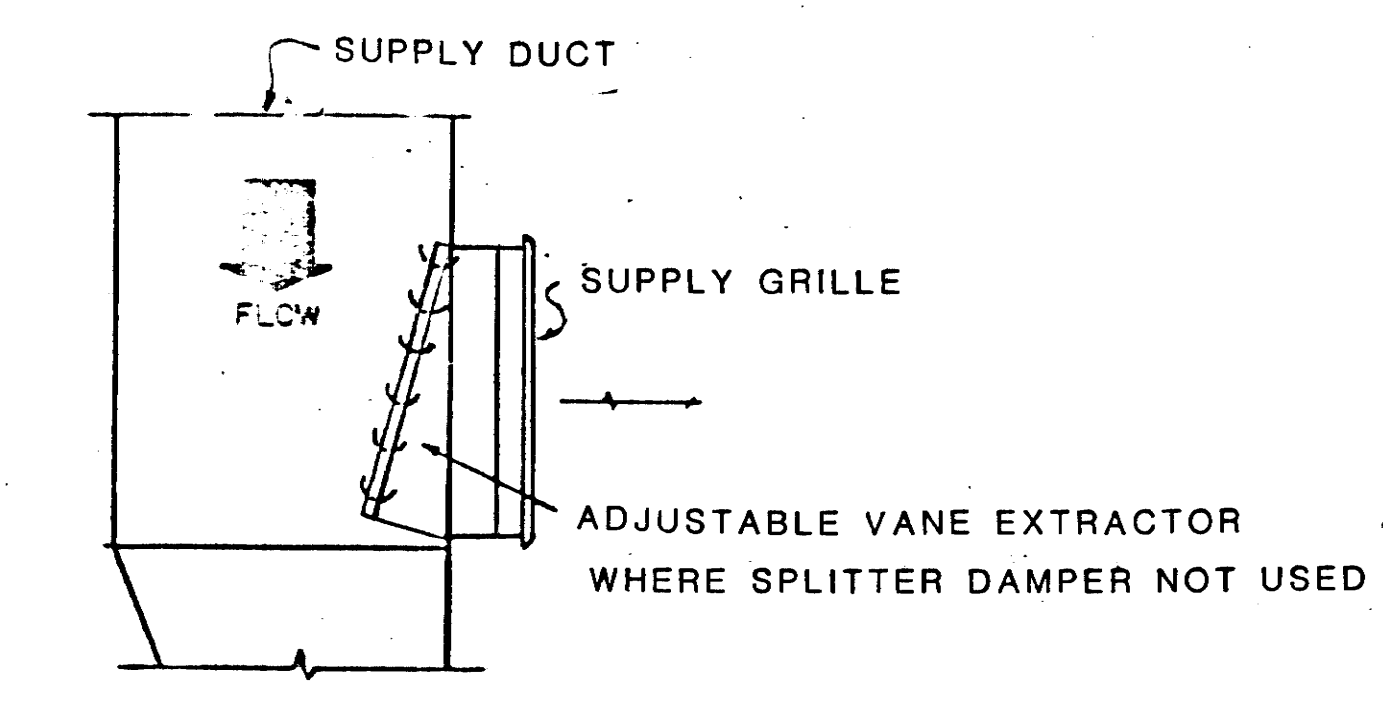
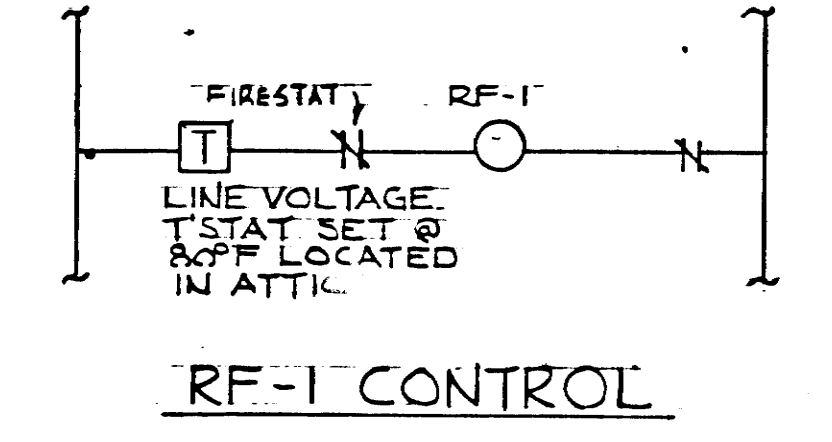
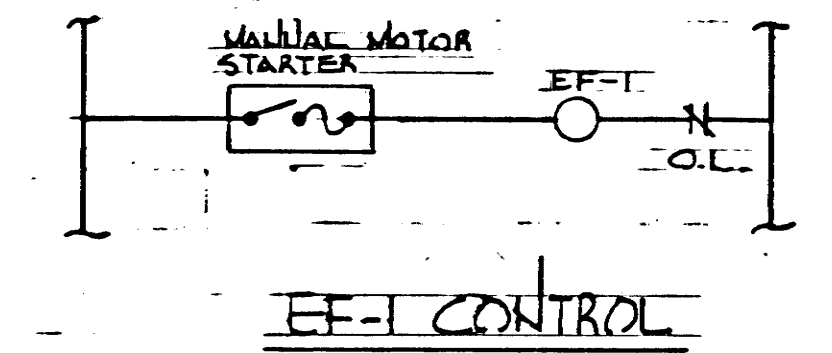
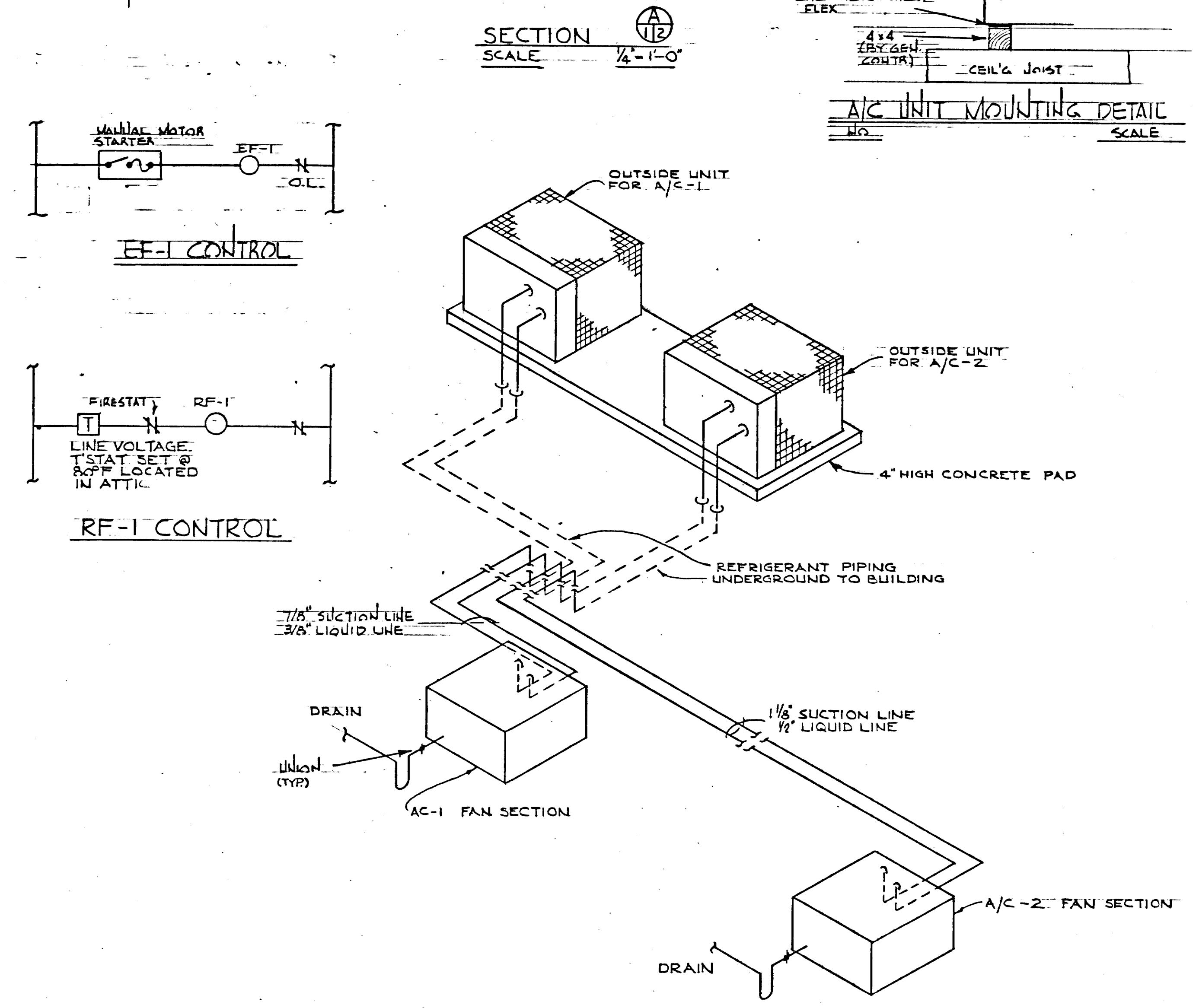
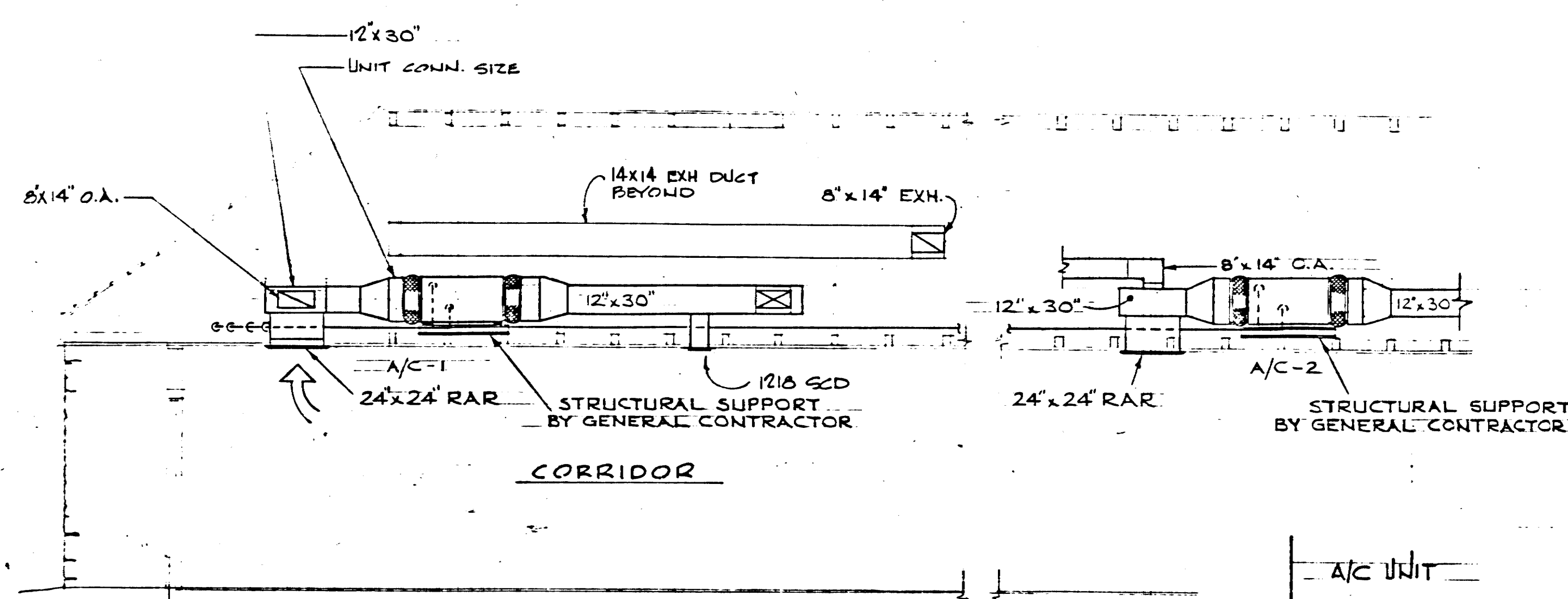


STATE OF TENNESSEE
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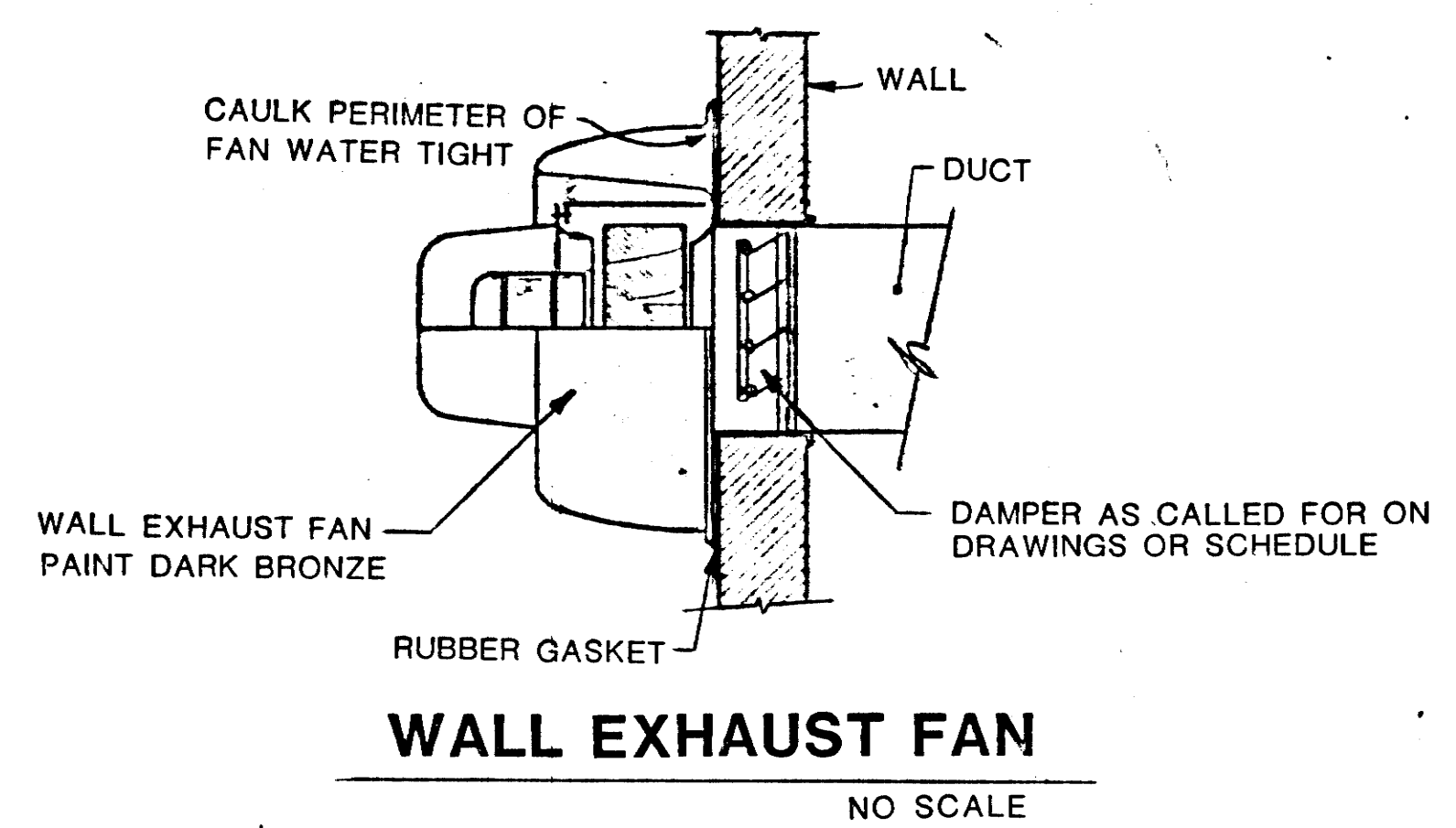
**SMITH CO.
REST AREA
BUILDING**

1-40 REST AREA 17

TECH. STATE HIGHWAYS
PLANS
Div. IN



DETAIL OF AIR BALANCE
- SUPPLY AIR GRILLE
NO SCALE



CEILING DIFFUSER SCHEDULE (SCD-SQUARE CLG. DIFF)					
CFM RANGE	NECK SIZE	FACE SIZE	CFM RANGE	NECK SIZE	FACE SIZE
0 - 175	6	12x12	601 - 900	15	21x21
176 - 350	9	15x15	901 - 1200	18	24x24
351 - 600	12	18x18	1201 - 1600	21	27x27

ALL SCD'S ARE 4-WAY BLOW UNLESS OTHERWISE NOTED.

RETURN AIR REGISTER & EXHAUST AIR REGISTER SCHEDULE (RAR)			
CFM RANGE	SIZE	CFM RANGE	SIZE
0 - 100	6x6	1201 - 1600	24x18
101 - 200	8x8	1601 - 2165	24x24
201 - 330	10x10	2166 - 3300	36x24
331 - 550	12x12	3301 - 4200	36x36
551 - 765	18x12	4201 - 5600	48x36
766 - 1200	18x18	5601 - 7600	48x48

REV.	3-8-84	DELETED REFERENCE TO SINGLE BRAND NAME.	TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	84	IR-40-5(82)267	12M			

HEAT PUMP SCHEDULE

UNIT NO.	A/C-1	A/C-2
TOTAL COOLING BTUH	54000	54000
SENSIBLE COOLING BTUH	45000	45000
HEAT PUMP HEATING CAPACITY AT 0°F	17,000	17,000
INDOOR UNIT		
CFM	2000	2000
D.A. CFM	450	450
EXT. SP. IN. H ₂ O (DUCT ONLY)	0.10"	0.10"
TOTAL SP. IN. H ₂ O	1.34"	1.34"
H.P.	1/2	1/2
VOLTAGE	240-1-60	240-1-60
E.A. DB. °F	79°F	79°F
E.A. WB. °F	65.7°F	65.7°F
FILTER TYPE	1" TAWAY	1" TAWAY
AUX. HEATER		
TOTAL KW	10 KW	10 KW
VOLTAGE	240-3-60	240-3-60
NO. OF STEPS	1	1
TYPE CONTACTORS	MAGNETIC	MAGNETIC
CONTROL VOLTAGE	24	24
OUTDOOR UNIT		
VOLTAGE	240-3-60	240-3-60
F.L.A. COMPRESSOR	18.1	18.1
L.R.A.	98.0	98.0
LOW AMBIENT °F COOLING CYCLE	NO	NO
CRANKCASE HEATERS	YES	YES
DEFROST CYCLE	YES	YES
REMARKS:		

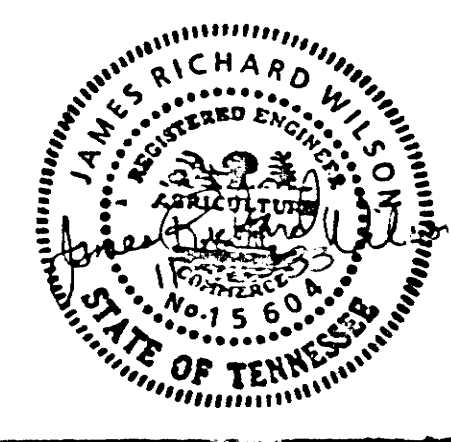
NOTES:
1. A/C-1 & 2 TO HAVE FIRESTATS IN THE SUPPLY & RETURN DUCT.
2. FURNISH UNIT w/ CONTROL CIRCUIT TRANSFORMER

FAN SCHEDULE

FAN NUMBER	EF-1	RF-1
SERVICE	TOILET	ATTIC/VENT
TYPE	WALL BELT DRIVEN	PRV
C.F.A.	1420	1500
SP. IN. H ₂ O	0.25	0.175"
MAX. FAN R.P.M.	600	1550
MAX. OUTLET VEL./F.T.	16"	14"
SIZE	16"	14"
MIN. MOTOR HP	1/3	1/4
ELECTRICAL	115-120	115-120
INLET SCREEN	NO	NO
OUTLET SCREEN	YES	YES
INLET DAMPER-TYPE	GRAVITY	GRAVITY
OUTLET DAMPER-TYPE	NO	NO
OTHER	DISCONNECT SWITCH	DIS. SWITCH
REMARKS		LOW PROFILE

NOTES:
1. FURNISH RF-1 w/ LINE VOLTAGE T'STATS LOCATED IN ATTIC SET @ 80°F.

WALL HEATER #1: CHROMOLUX #FWH-1751; 750 WATTS @ 120VOLT/60 CYCLE, SINGLE PHASE POWER RECESS MOUNTED 6'-0" A.F.F. WITH UNIT MOUNTED THERMOSTAT, AUTOMATIC RESET THERMAL OVERLOAD, EQUAL MODELS BY INDOCO, BERKO, AND THERMADOR WILL BE ACCEPTABLE.
WALL HEATER #2: SAME AS WALL HEATER #1



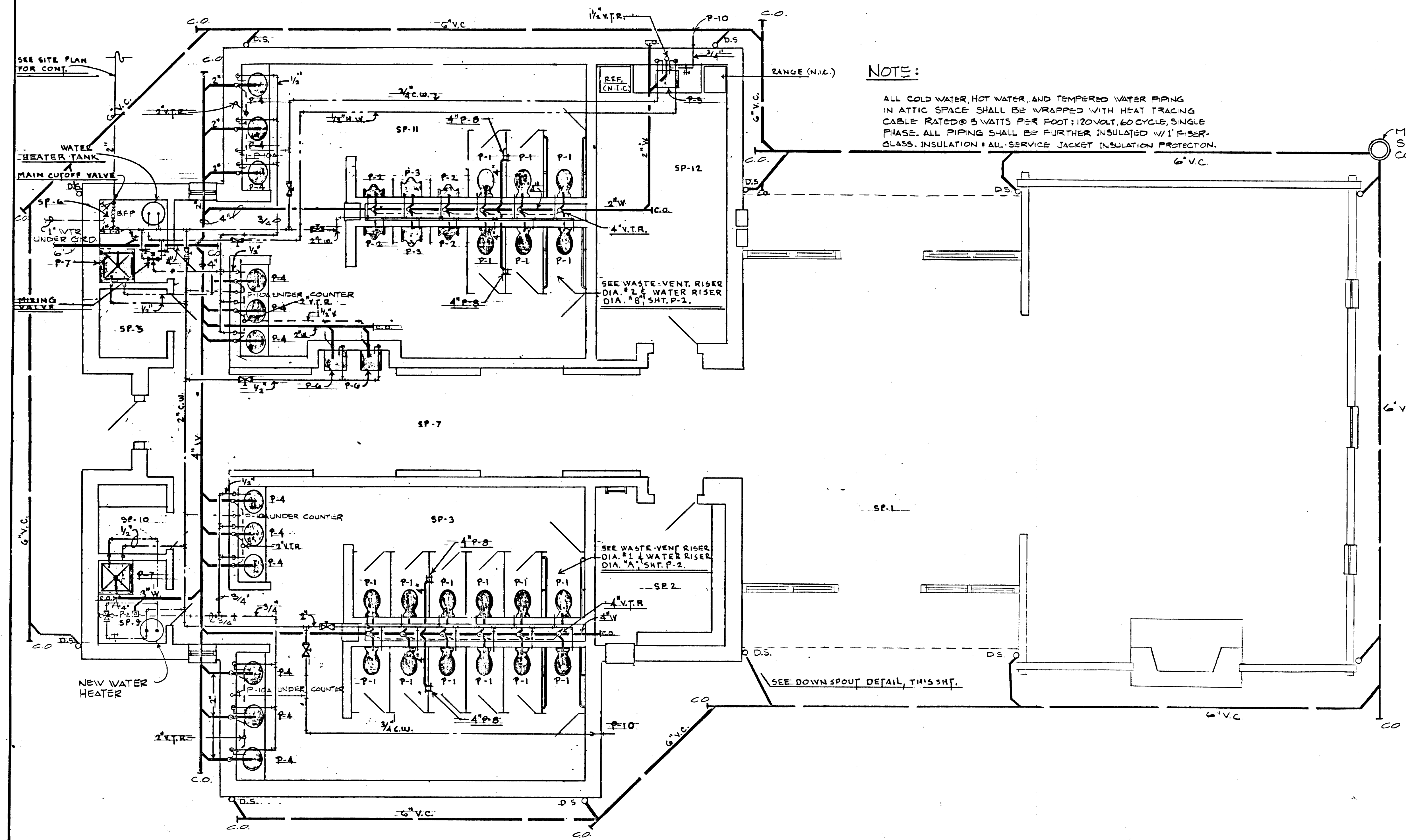
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS

SMITH CO.
REST AREA
BUILDING
I-40 REST AREA 17

File No. 160
Divn. 160

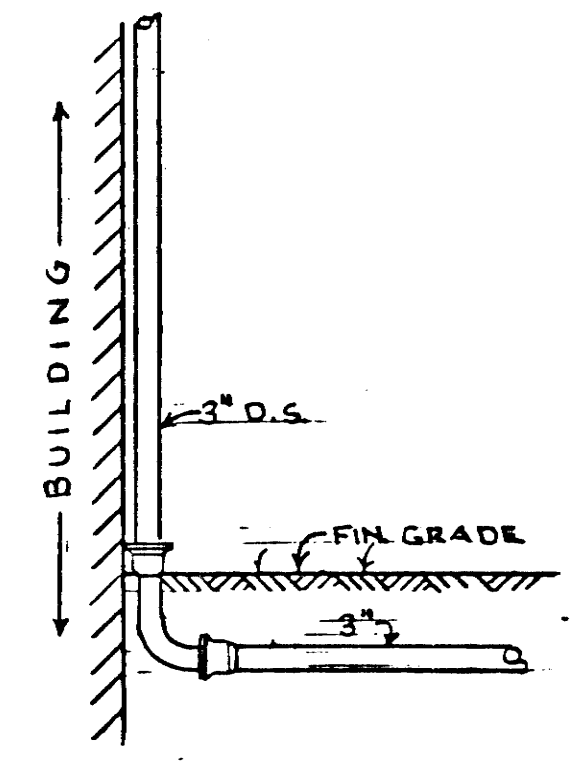
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	84	IR-40-5(82)267	12 N

REV. 3-8-84: ADDED TO LEGEND



NOTE:

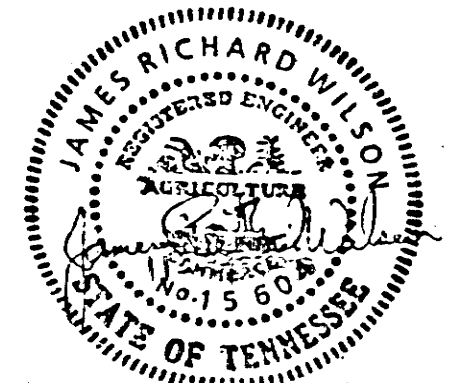
ALL COLD WATER, HOT WATER, AND TEMPERED WATER PIPING IN ATTIC SPACE SHALL BE WRAPPED WITH HEAT TRACING CABLE RATED @ 5 WATTS PER FOOT; 120VOLT, 60 CYCLE, SINGLE PHASE. ALL PIPING SHALL BE FURTHER INSULATED W/ 1" FIBER-GLASS INSULATION & ALL SERVICE JACKET INSULATION PROTECTION.



DOWNSPOUT DETAIL (T)
NO. 10

LEGEND

- C.O. (Cold Water)
- H.C. (Hot Water)
- T.E. (Tempered Water)
- S.A. (Sanitary)
- C.S. (Cleanout)
- W.H. (Wall Hydrant)
- A.S.M.E. (As Me Temp Relief)
- F.D. (Floor Drain)
- VENT (Vent)
- GATE VAL. (Gate Valve)
- STORM SEW. (Storm Sewer)
- THREE WAY CONTROL VALVE
- VENT THRU ROOF
- WALL MOUNT WATER CLOSET
- URINAL
- DROP-IN TYPE LAVATORY
- SERVICE SINK
- DRINKING FOUNTAIN
- ROOM-BFP (Reduced Pressure Backflow Preventer)



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS

SMITH CO. REST AREA BUILDING
I-40 REST AREA 17

File No. 160
Date: 1/1/60

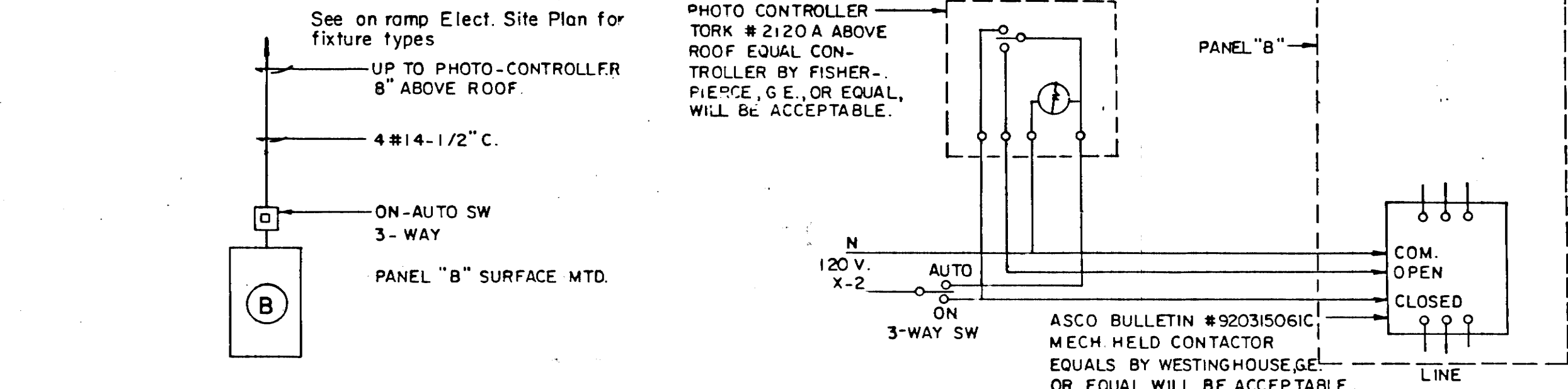
RMS SYM: 22,000 A. SERVICE 240/120 VOLTS 3 PHASE 4 WIRE-SOLID/NEUT. M.L.O. WITH SEPARATE NEUTRAL AND EQUIPMENT GROUND BUS											
PANEL MDP MAINS 600 AMP 600A MAIN C.B. WITH SEPARATE NEUTRAL AND EQUIPMENT GROUND BUS											
LOCATION: ELECTRIC RM. SP-9 CABINET SURFACE MOUNTING											
ITEM	KW	AMP	WIRE	C/B	CKT	ABC	CKT	C/B	WIRE	AMP	ITEM
SEWAGE TREATMENT PLANT	36.2	87.1			125	1	2	150	75.5	31.4	WATER TREATMENT PLANT
CONDENSING UNIT #1	9.4	22.6	#8	40	3	4	40	#8	22.6	9.4	CONDENSING UNIT #2
HEATER SECTION #1	10.0	24.0	#8	40	5	6	40	#8	24.0	10.0	HEATER SECTION #2
WALL HEATER	0.8	6.7	#12	20	7	8	125	1/0	95.2	39.6	PANEL "B"
BLANK	-	-	-	-	-	-	-	-	-	-	-
WALL HEATER	0.8	6.7	#12	20	9	10	100	80.0	33.3		SPARE
VENDING MACHINES	2.9	24.0			30	11	12	50	40.0	9.6	SPARE
PANEL "A"	45.5	89.7	250	225	13	14	20	16.0	1.9		SPARE
SPARE	9.6	40.0			50	15	16	40	28.9	12.0	HOT WATER HEATER
HOT WATER HEATER	12.0	28.9	#8	40	17	18	40	#8	28.9	12.0	HOT WATER HEATER

RMS SYM: 22,000 A. SERVICE 240 / 120 VOLTS 1 PHASE 3 WIRE-SOLID/NEUT. M.L.O. WITH SEPARATE NEUTRAL AND EQUIPMENT GROUND BUS													
PANEL "A" MAINS 225 AMP													
LOCATION ELECTRIC RM. SP-9 CABINET SURFACE MOUNTING													
ITEM	KW	AMP	WIRE	C/B	CKT	A	C	CKT	C/B	WIRE	AMP	ITEM	
SPARE	1.2	10.0	#10	20	1			2	20	#12	6.7	0.8	RECEPTACLES
	1.2	10.0	#10	20	3			4	20	#12	8.3	1.0	
	1.2	10.0	#10	20	5			6	20	#12	5.8	0.7	EX FAN
SPARE	8.0	33.3		50	7			8	20	#12	5.8	0.7	
								10	20	#12	10.0	1.2	REFRIGERATOR
FAN	0.6	4.5	#12	20	9			12	20	#12	11.7	1.4	LIGHTING
	0.6	4.5	#12	20	11			14	20	#12	10.0	1.2	
RECEPTACLES	1.0	8.3	#12	20	13			16	20	#12	10.0	1.2	
	1.0	8.3	#12	20	15			18	20	#12	10.0	1.2	
	1.0	8.3	#12	20	17			20	20	#12	15.0	1.8	
	1.0	8.3	#12	20	19			22	20	#12	8.3	1.0	
	1.0	8.3	#12	20	21			24	20	#12	8.3	1.0	
	1.0	8.3	#12	20	23			26	20		8.3	1.0	SPARE
EX. FAN 1/3 HP.	0.9	7.2	#12	20	25			28	20		8.3	1.0	
SPARE	1.0	8.3		20	27			30	20		8.3	1.0	
	1.0	8.3		20	29			32	20		8.3	1.0	
	1.0	8.3		20	31			34	20		8.3	1.0	
	1.0	8.3		20	33			36	20		8.3	1.0	
	1.0	8.3		20	35			38	20		8.3	1.0	
RANGE	9.6	40.0	#6	50	37			40	20		8.3	1.0	
								42	20		8.3	1.0	

RMS SYM: 22,000 A. SERVICE 240/120 VOLTS 3 PHASE 4 WIRE-SOLID/NEUT. M.L.O. WITH SEPARATE NEUTRAL AND EQUIPMENT GROUND BUS											
PANEL "B" MAINS 125 AMP M.L.O. WITH SEPARATE NEUTRAL AND EQUIPMENT GROUND BUS											
LOCATION: ELECTRIC RM. SP-9 CABINET SURFACE MOUNTING											
ITEM	KW	AMP	WIRE	C/B	CKT	ABC	CKT	C/B	WIRE	AMP	ITEM
ENTRANCE ROAD LTG.	3.6	8.7	#6	20	1	2	20	#10	5.0	1.2	ENTRANCE ROAD LTG.
PARKING LOT LIGHTING	1.8	7.5	#10	20	3	4	20	#10	8.3	2.0	PARKING LOT LTG.
PARKING LOT LTG.	2.0	8.3	#10	20	5	6	20	#10	10.0	2.4	PARKING LOT LTG.
WALKWAY LTG.	1.4	5.8	#10	20	7	8	20		16.0	6.7	SPARE
SPARE	3.8	16.0			20	9	10	20	16.0	3.8	SPARE
PICNIC SHELTERS	1.4	11.7			20	11	12	20	11.7	1.4	PICNIC SHELTERS
SPARE	3.8	16.0			20	13	14	20	11.7	1.4	SPARE

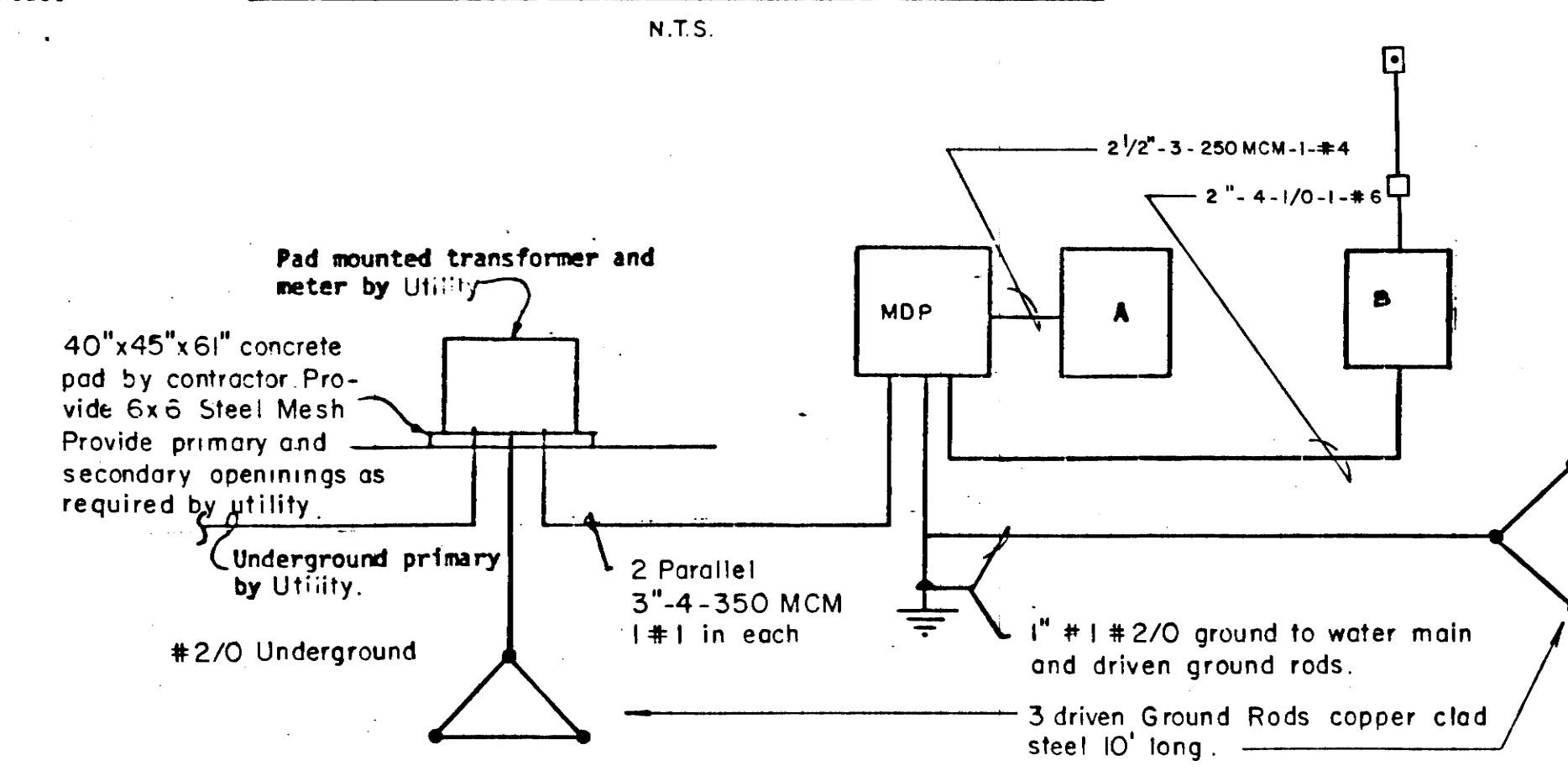
* PROVIDE ASCO BULLETIN #920315061C MECHANICALLY HELD SWITCH TO CONTROL PANEL "B". SEE DETAIL.

MARK	MANUFACTURER AND CATALOG NUMBER	MOUNTING	LAMP NO TYPE	REMARKS
A	Lithonia BTC240 Femco 8TK240 Prudential P-122-96RSTW	Surface in attic	4 F40	Bottom of fixture 2 inches above lens.
B	Lithonia BT5140HRS Femco SP-140-8 Prudential P-101-96RS-TW	Surface in attic	2 F40	Bottom of fixture 2 inches above lens.
C	Lightolier 3939 or Equal by Thomas or Progress.	Pendant	1/150 1/50R20/FL	Suspend all C fixtures at same height.
D	Prescolite 21KS-13 N.L. Corp. R-5800 Halo	Recessed	1 75R 30FL	Aim as directed by architect
E	Lithonia C240 Femco H-240 Daybrite 4824-4	Surface	2 F40	
F	General Elec GE5740-7 Brant 5228 P & S #44	Outlet Box	1/100	
G	Miller CQ-2692-02 Lithonia 2M2U40MAI2 Femco FPM 2420PA Lithonia F240A12	Recessed	2 F40	
H	Miller TF-2192-S4N Prudential P-2312-48RS	Recessed	1 150R 40FL	
J	Prescolite 1227-980 N.L. Corp. R-5010 CLD 14VAG2R300CN9.11	Recessed	1 150R 40FL	
K	Lithonia S140HRS Femco SP-140-H Prudential P-101-48-HRS	Surface	1 F40	
L	Prescolite 4220 Staff 7403	Bracket	1 100	Top level with door head
M	Miller AC-2012 or equal by Appelon or Killorc.	Integral Outlet box	1/150	Provide 3/4" tapping for conduit, install fixtures as high as possible.
N	G.E.C.307LDF 18 AV, W/C692H26X Dark Bronze	14" Pole	75 W/HPS	See detail for mounting.
P	G.E.C64N518 MKIII Reg. Pole G.E.C899H240	Pole and arm	250W/HPS	New 40" Pole and arms where noted
Q	G.E.C642N525 MKII Reg. Pole G.E.C899H240	Pole and arm	150W/HPS	(PP denotes 2 Fixtures and arms.
R	G.E.C75IN548	Existing Pole	70 W/HPS	Adapter for existing 3" Pole.
S	G.E.C64IN525			



LIGHTING FIXTURE SCHEDULE NOTE:
For fixture Type N ITT, McGraw Edison Acceptable equals.
For fixtures Type P, Q and R, Westinghouse and ITT Acceptable equals.

OUTSIDE LIGHTING CONTROL DETAIL



RISER DIAGRAM

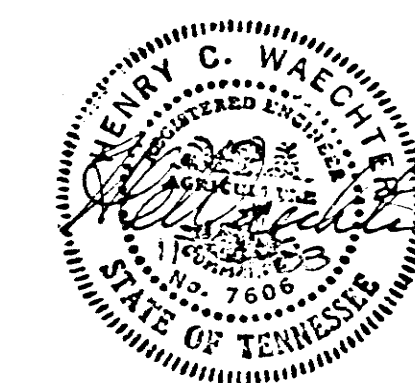
N.T.S.

GENERAL NOTES

- Branch circuits from lighting panelboards are protected by 20 Amp 1 Pole circuit breakers unless otherwise noted. Where circuits are protected by another size circuit breaker, the trip rating and number of poles are shown adjacent to circuit numbers on drawings.
- Where wire and conduit size are shown on one part of a branch circuit, the wire and conduit size do not change on other parts of the same circuit unless otherwise noted.
- Install branch circuit and feeder conduits concealed to all items unless exposed conduit is noted or unless exposed conduit is indicated by symbol. Connect branch circuits to Panelboards indicated by Notes; branch circuit numbers are shown adjacent to receptacles, wiring devices, etc.

ELECTRICAL SYMBOLS AND ABBREVIATIONS

- Ceiling lighting fixture outlet.
 - Bracket outlet.
 - Fluorescent fixture with lens.
 - Fluorescent fixture without lens.
 - Sa Single pole switch, lower case letter denotes outlet controlled.
 - S2, S3, S4 Double pole, three-way, and four-way switches.
 - Wiring concealed above ceiling or in wall.
 - Wiring concealed under floor or in wall.
 - Wiring exposed.
 - Wiring turning up.
 - Wiring turning down.
 - ⊕ Exhaust fan connection.
 - ⊙ Motor connection, HP shown.
 - ⊙ or ⊕ Junction box.
 - ⊗ Starter or terminal connection FBO UON.
 - ⊕ Duplex grounding receptacle. Centerline 24 inches AFF UON. WP denotes Hubbell 5205 double 11ft cover, GE or LEVITON Acceptable Equal. Designates conduit and wire size. Refer to Schedule.
 - ⊕ Wall telephone outlet. UON install 3/4-inch conduit concealed to ITB.
 - ⊕ Exit light, single face. Arrows if shown. Lithonia ESIREL, DUAL-LITE or Equal.
 - ⊕ Exit light, double face. Arrows if shown. Lithonia ES2REL, DUAL-LITE or Equal.
 - ⊕ Photoelectric control. Intermatic K7311, 300 Watt, 120 Volt, flush mounted in soffit. TORK or PARAGON Acceptable Equal.
 - ⊕ Single pole switch and duplex grounding receptacle in common plate.
 - ⊕ Emergency light. Lithonia # ELG-2V. Connect to outlet box with flexible conduit. Install with top of heads 2 inches below ceiling. DUAL-LITE or PRECOLITE Acceptable Equal.
 - ⊕ Floor box outlet, flush mounted. Hubbell B-2529/5-3925 with duplex grounding receptacle. G.E. or LEVITON Acceptable or Equal.
 - ⊕ Floor box outlet for future closed circuit TV. Hubbell B-2527/5-2525. G.E. or LEVITON Acceptable Equal.
 - ⊕ Smoke Detector-Edwards # 317T-120V, HONEYWELL or G.E. Acceptable Equal.
- NOTE: THE CONTRACTOR SHALL INSTALL ON ALL THREE PHASE PANELBOARDS A RED PHENOLIC PLATE WITH WHITE ENGRAVED LETTERS WITH THE FOLLOWING TEXT:
- CAUTION
240/120 V., 3 PHASE, 4 WIRE
B- PHASE 208 VOLTS TO GROUND
- THE CONTRACTOR SHALL PHASE ALL 3 PHASE PANEL BOARDS AS FOLLOWS: A B C
- AND ALL SINGLE PHASE PANELBOARDS AS FOLLOWS: A C
- NOTE: B PHASE SHALL BE THE HIGH LEG (208V TO GROUND).
- Unfused disconnect switch 30A 3P UON. WP denotes NEMA 3R.
 - Fused disconnect switch.
 - Lighting panel.
 - Power panel.
 - AFF Above finished floor.
 - UON Unless otherwise noted.
 - DF Drinking fountain.
 - UC Under counter.
 - ABC Above counter.
 - FBO Furnished by others.
 - WH Water heater.
 - CU Copper.
 - Empty conduit
 - GND Ground.
 - TTB Telephone terminal board plywood UON.
 - ⊕ Thermostat. FBO. Center in
 - Concealed telephone homerun to
 - ⊕ DAMPER MOTOR FAN
 - SP SINGLE POLE SWITCH WITH PILOT LIGHT, HUBBELL 1201-FL, GE, OR LEVITON ACCEPTABLE EQUAL.
 - ⊕ CLOCK OUTLET AND CLOCK HOWARD MILLER CLOCK COMPANY NO. 2417-C 115V OR EQUAL TOP OF CLOCK 6" BELOW CEILING.



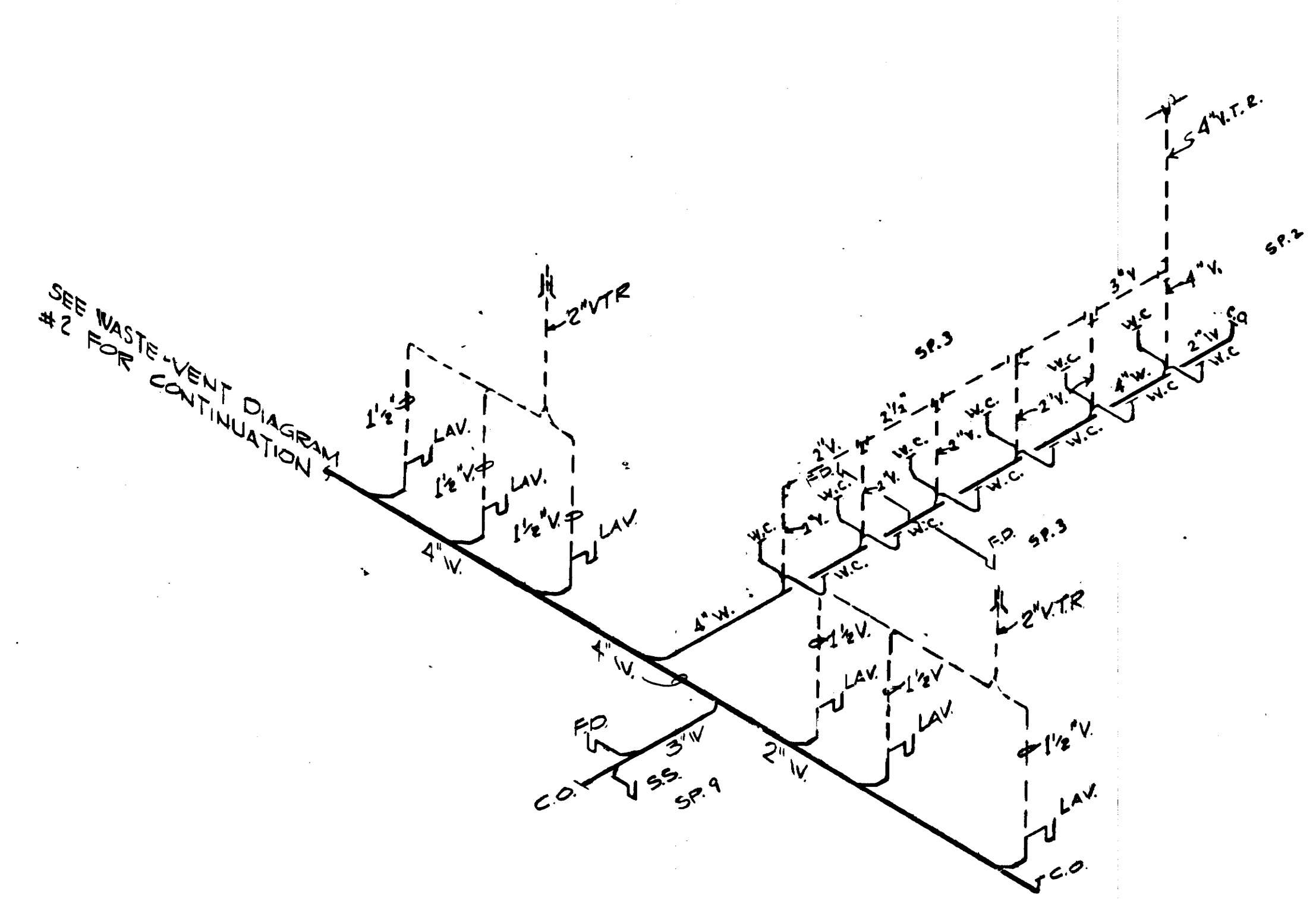
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS

**SMITH CO.
REST AREA
BUILDING**

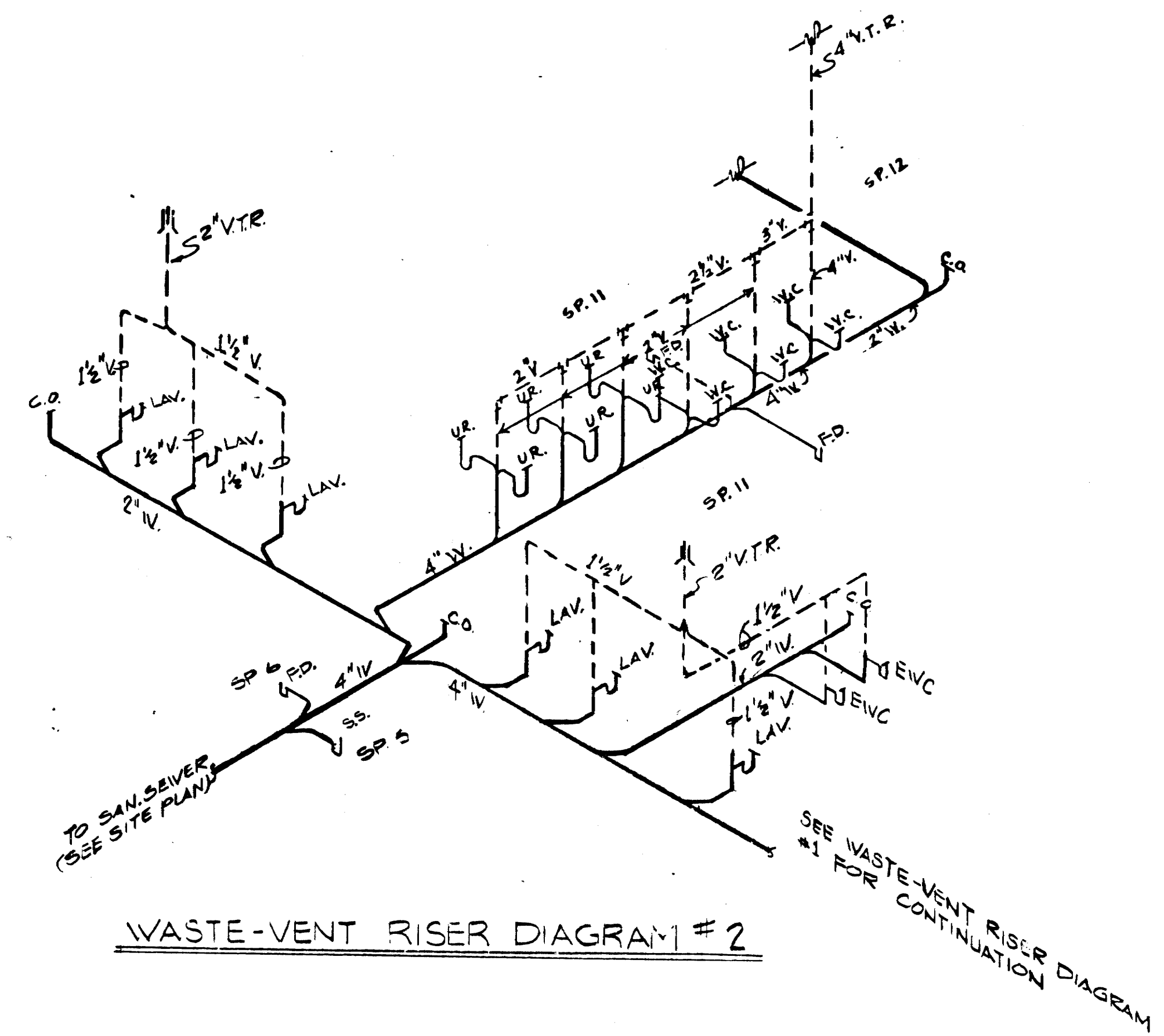
I-40 REST AREA 17

PLAN
File
Divn.
No. 160

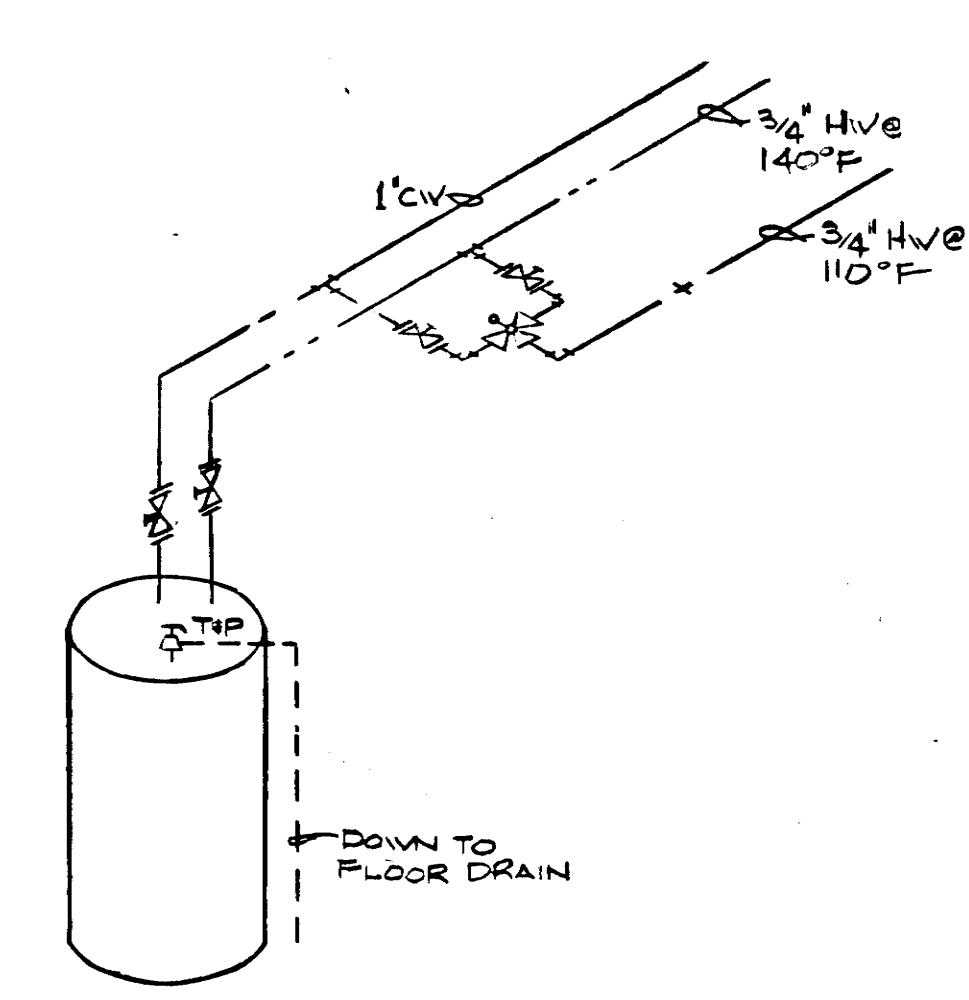
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	84	IR-40-5(82)267	12Q



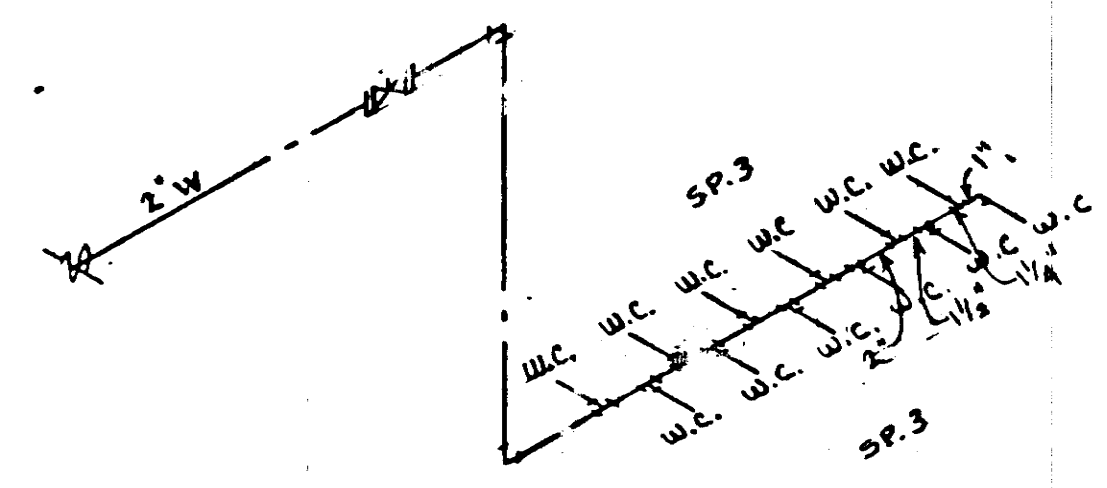
WASTE-VENT RISER DIAGRAM #1



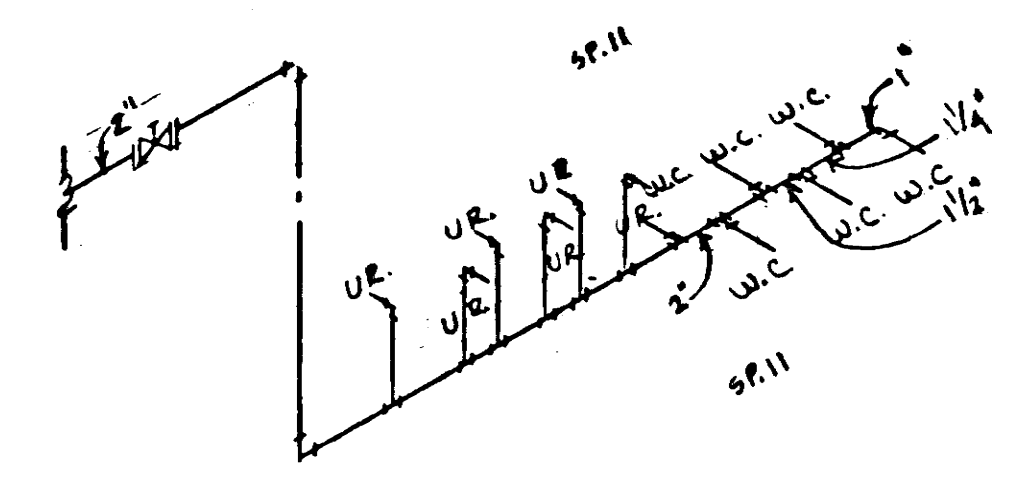
WASTE-VENT RISER DIAGRAM #2



WATER HEATING SYSTEM DETAIL

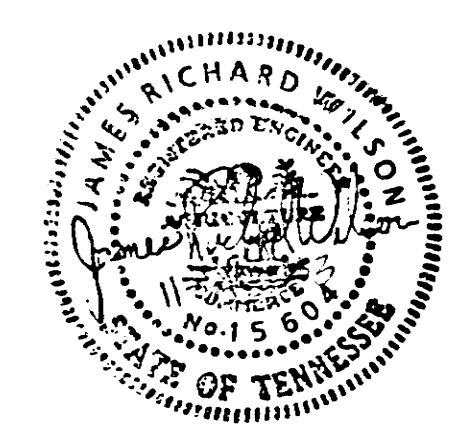


WATER RISER DIAGRAM "A"



WATER RISER DIAGRAM "B"

- LEGEND
- COLD WATER
 - HOT WATER (140°F)
 - TEMPERED WATER (110°F)
 - SANITARY SEWER
 - CLEANOUT
 - WALL HYDRANT
 - ASME TEMP. PRESSURE RELIEF
 - FLOOR DRAIN
 - VENT
 - VALVE
 - STORM SEWER



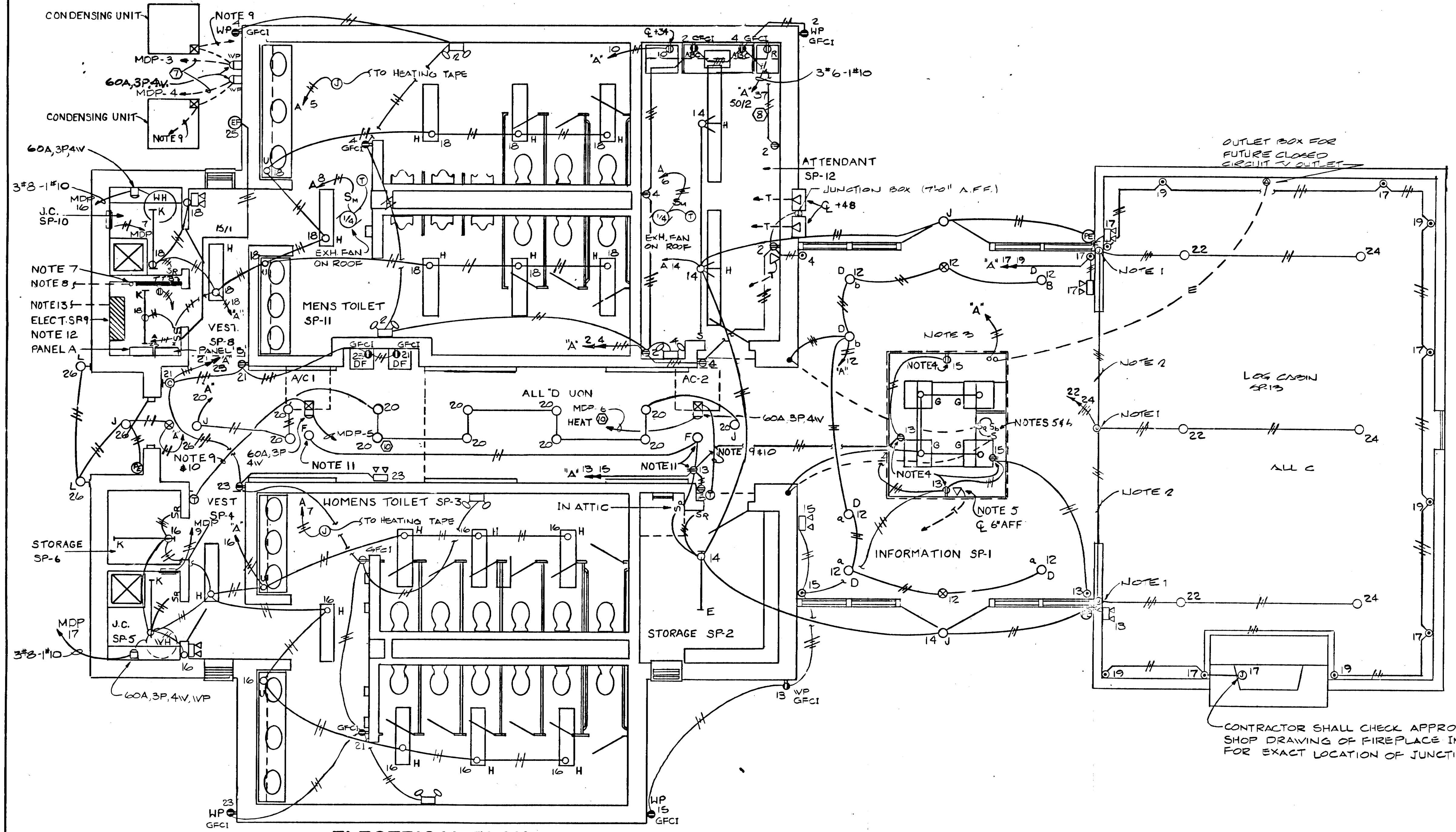
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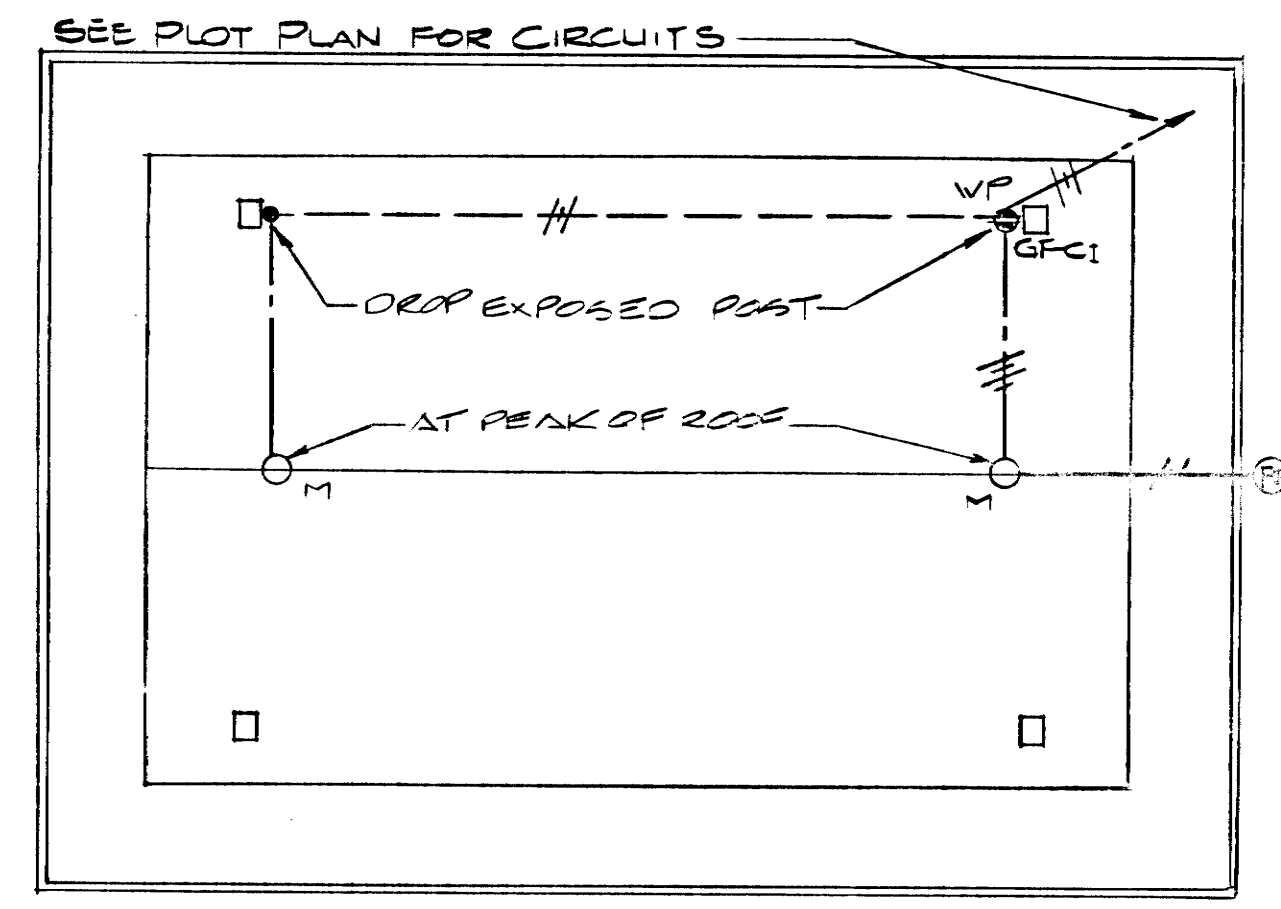
1-40 REST AREA 17

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	84	IR-40-5(82)267	12 R

REV. 3-8-84: ADDED JUNCTION BOX AT TELEPHONE.



- NOTES:
1. INSTALL SO COVER IS FLUSH IN WALL. SEE DETAIL A.
 2. CONCEALED IN WALL. SEE DETAIL A.
 3. STUB UP 2 INCHES ABOVE FLOOR FOR FUTURE CLOSED-CIRCUIT TV.
 4. SEE NOTE 5. INSTALL IN HANDY BOX WITH BOTTOM OF BOX 6 INCHES AFF.
 5. SURFACE MOUNTED OUTLET BOX INSIDE COUNTER.
 6. TOP OF OUTLET BOX 2 INCHES BELOW COUNTER TOP.
 7. STUB-UP 2 INCHES AFF.
 8. STUB OUT 1'-0" PAST WALL, MINIMUM 24" BELOW GRADE.
 9. CONTROL WIRING AS REQUIRED BY MECHANICAL. INSTALL IN CONCEALED CONDUIT UON.
 10. LOCATE AS DIRECTED BY MECHANICAL ENGINEER.
 11. IN ATTIC.
 12. INSTALL THE FOLLOWING CONDUITS EXPOSED ON WALLS IN THIS SPACE:
A. TELEPHONE CONDUITS.
B. CONDUITS FROM PANEL
C. BRANCH CIRCUIT HOME RUN CONDUITS FROM PANEL A.
INSTALL THE FOLLOWING CONDUITS CONCEALED IN THIS SPACE:
A. CONDUIT TO SWITCH/RECEPTACLE.
B. CONDUIT FOR K FIXTURE
C. CONDUIT TO TTB RECEPTACLE.
 13. TO PAD MOUNTED TRANSFORMER SEE SITE PLAN AND RISER DIAGRAM.
 14. CONNECT MDP-11 TO EXISTING OUTLETS FOR VENDING MACHINES IN EXISTING PICNIC SHELTER 2# 10, 1# 12G, 3/4" CONDUIT UNDERGROUND.



PICNIC SHELTER ELECTRICAL PLAN
SCALE: 1/4"=1'-0"
(TYPICAL FOR ALL)

NOTE:
MODIFY ALL PICNIC SHELTERS IN ACCORDANCE WITH THE ABOVE DETAIL

CONTRACTOR SHALL CHECK APPROVED SHOP DRAWING OF FIREPLACE INSERT FOR EXACT LOCATION OF JUNCTION BOX

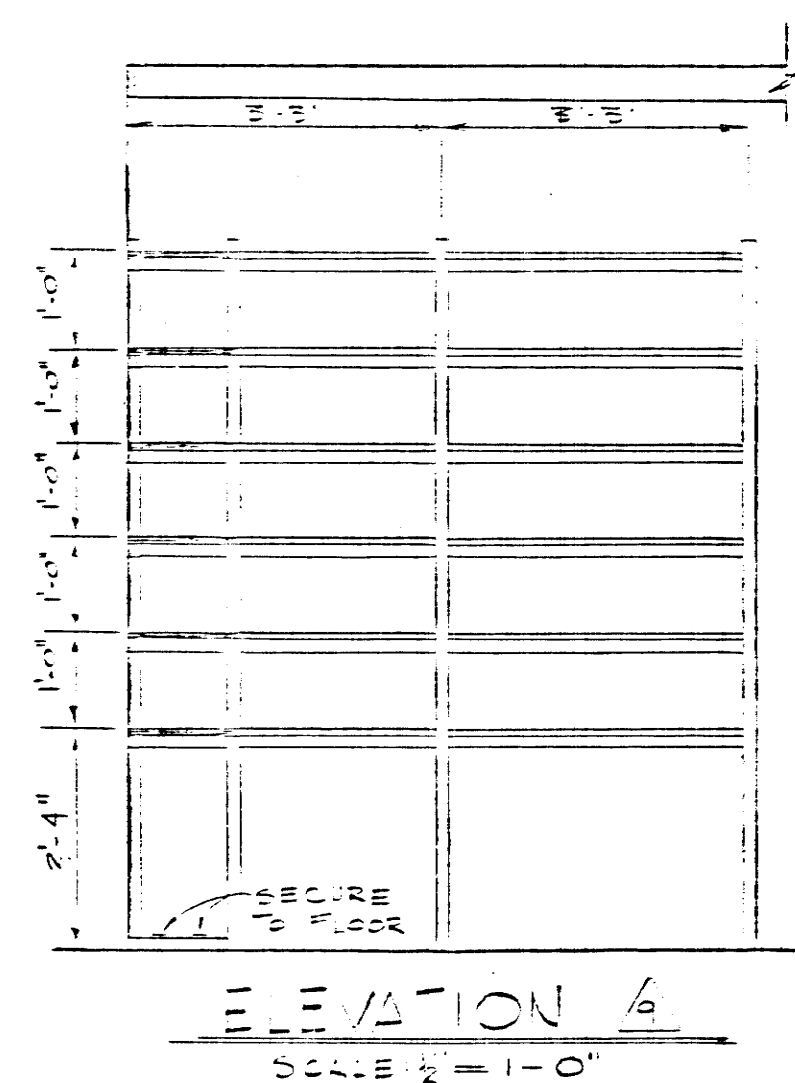
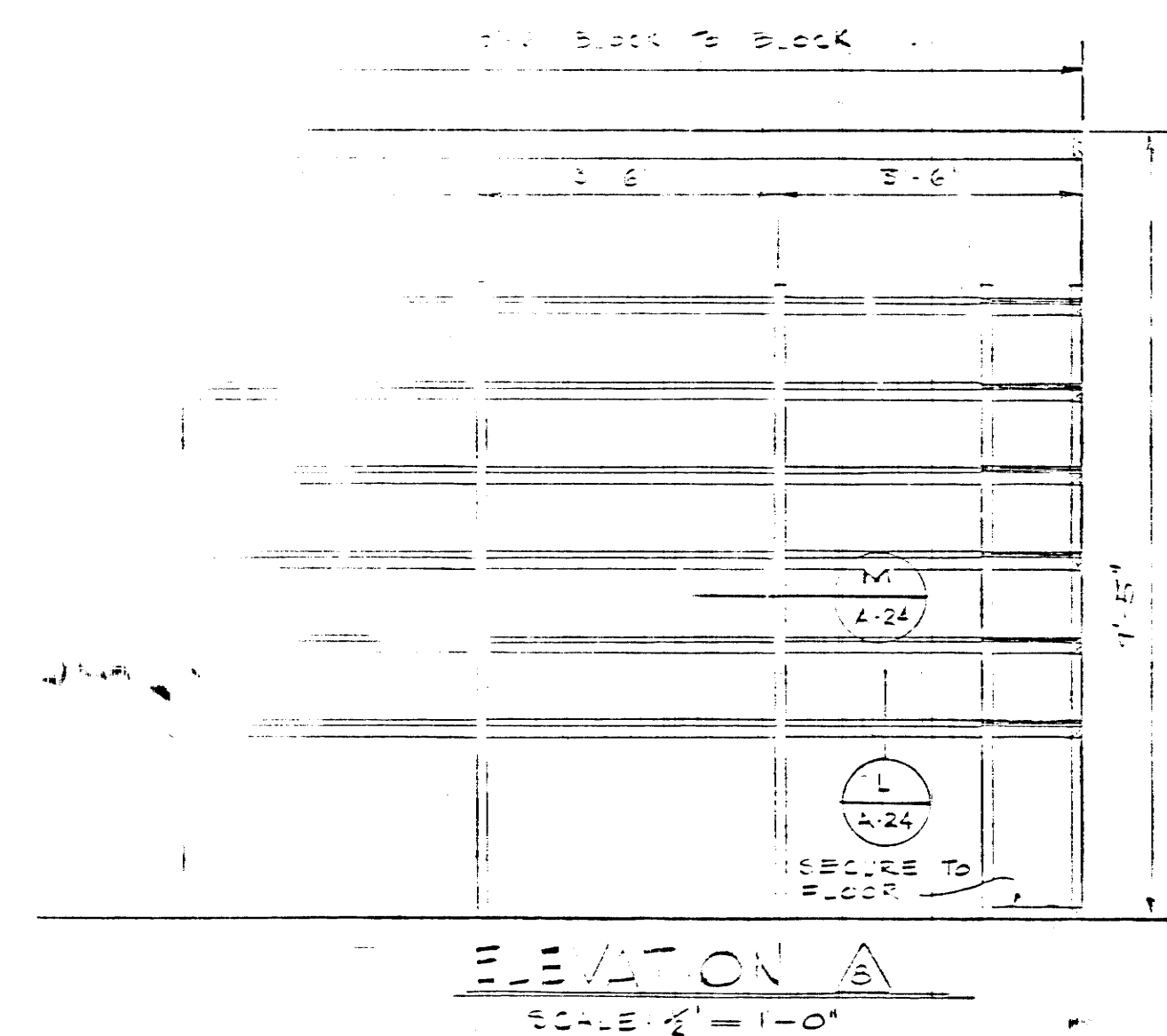
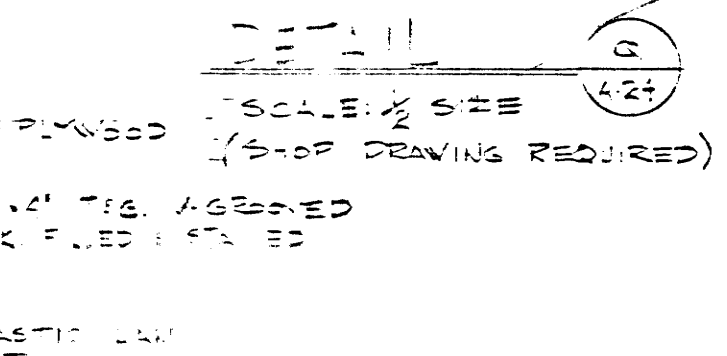
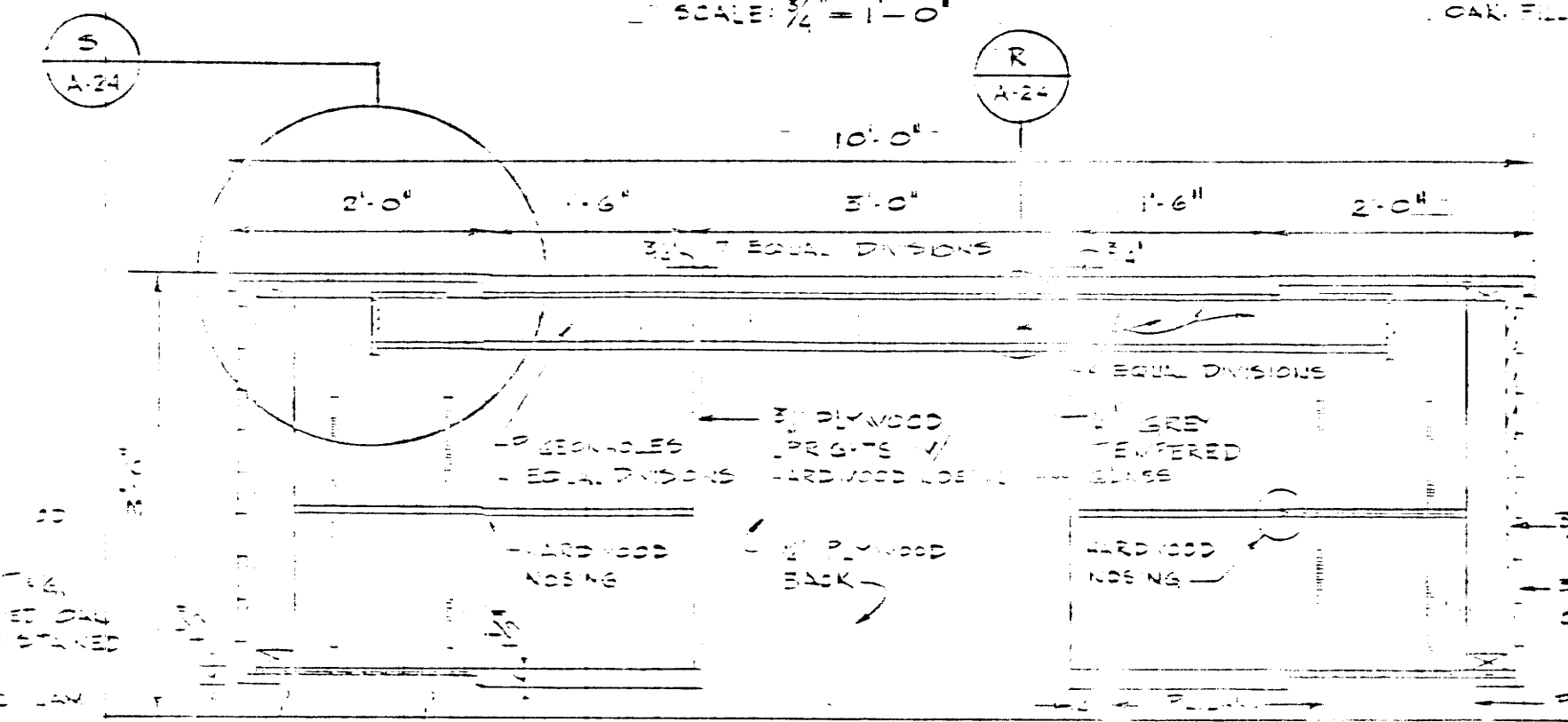
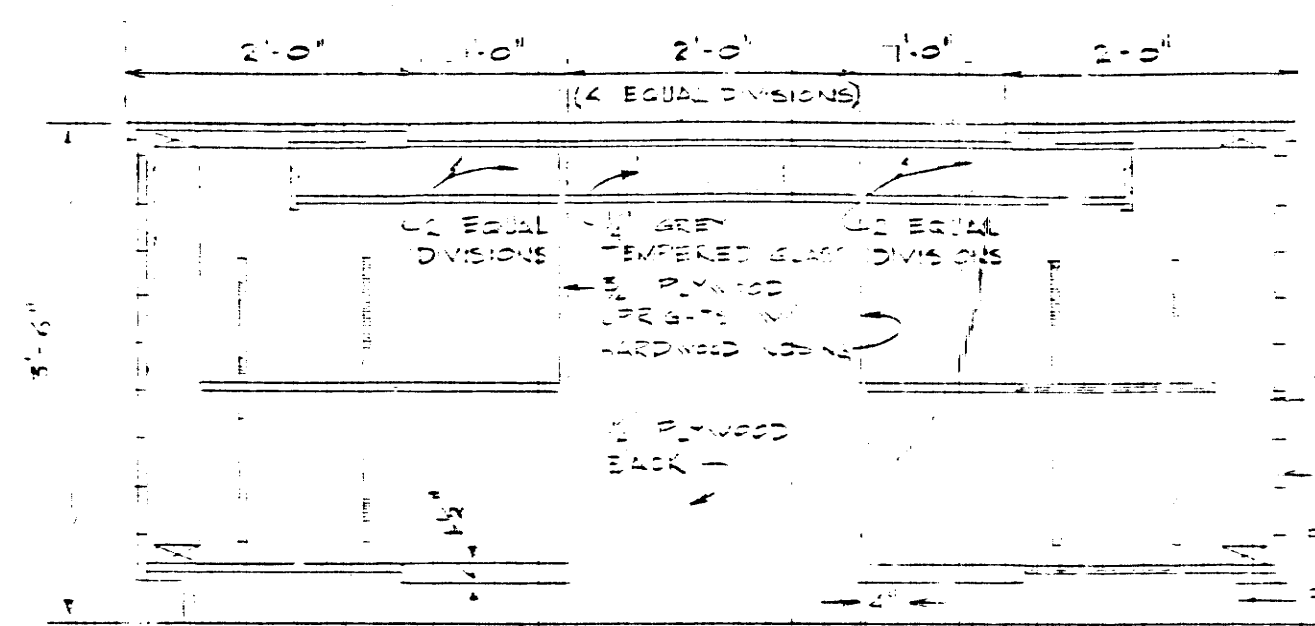
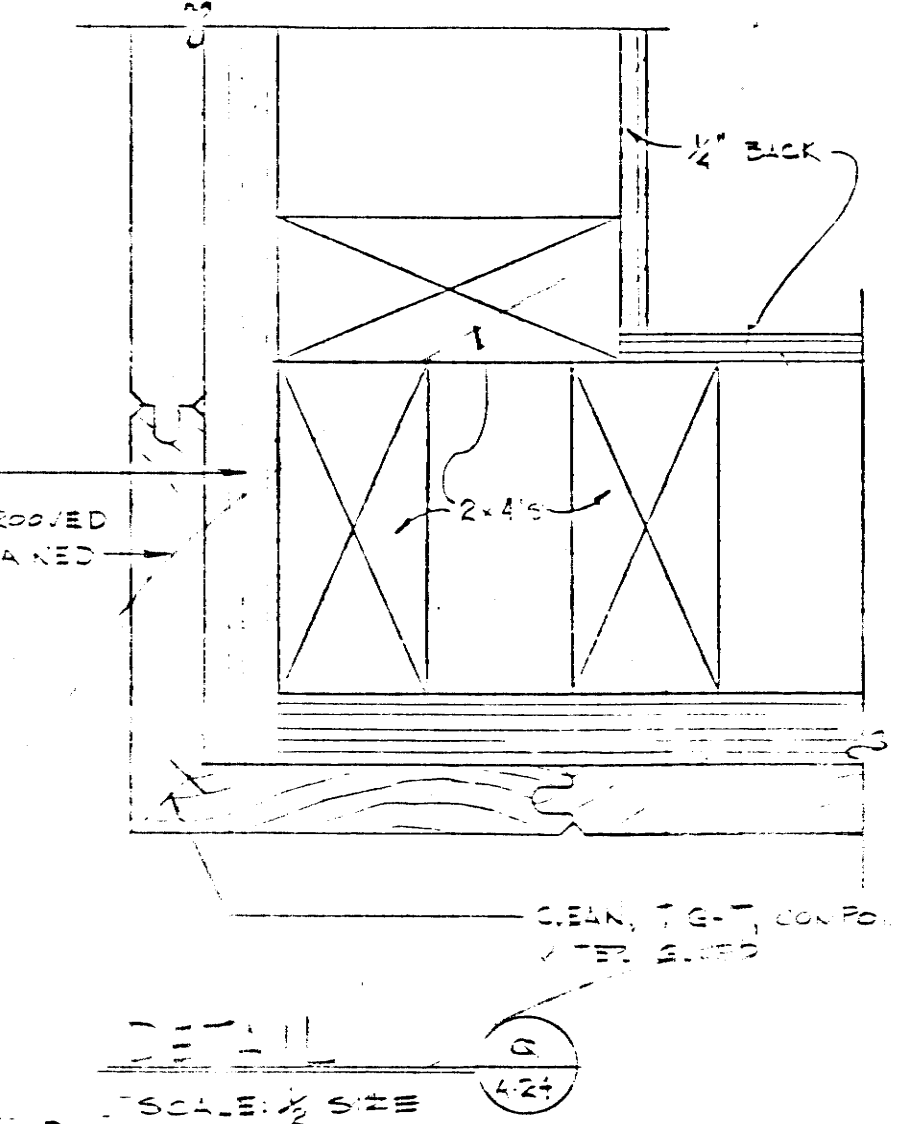
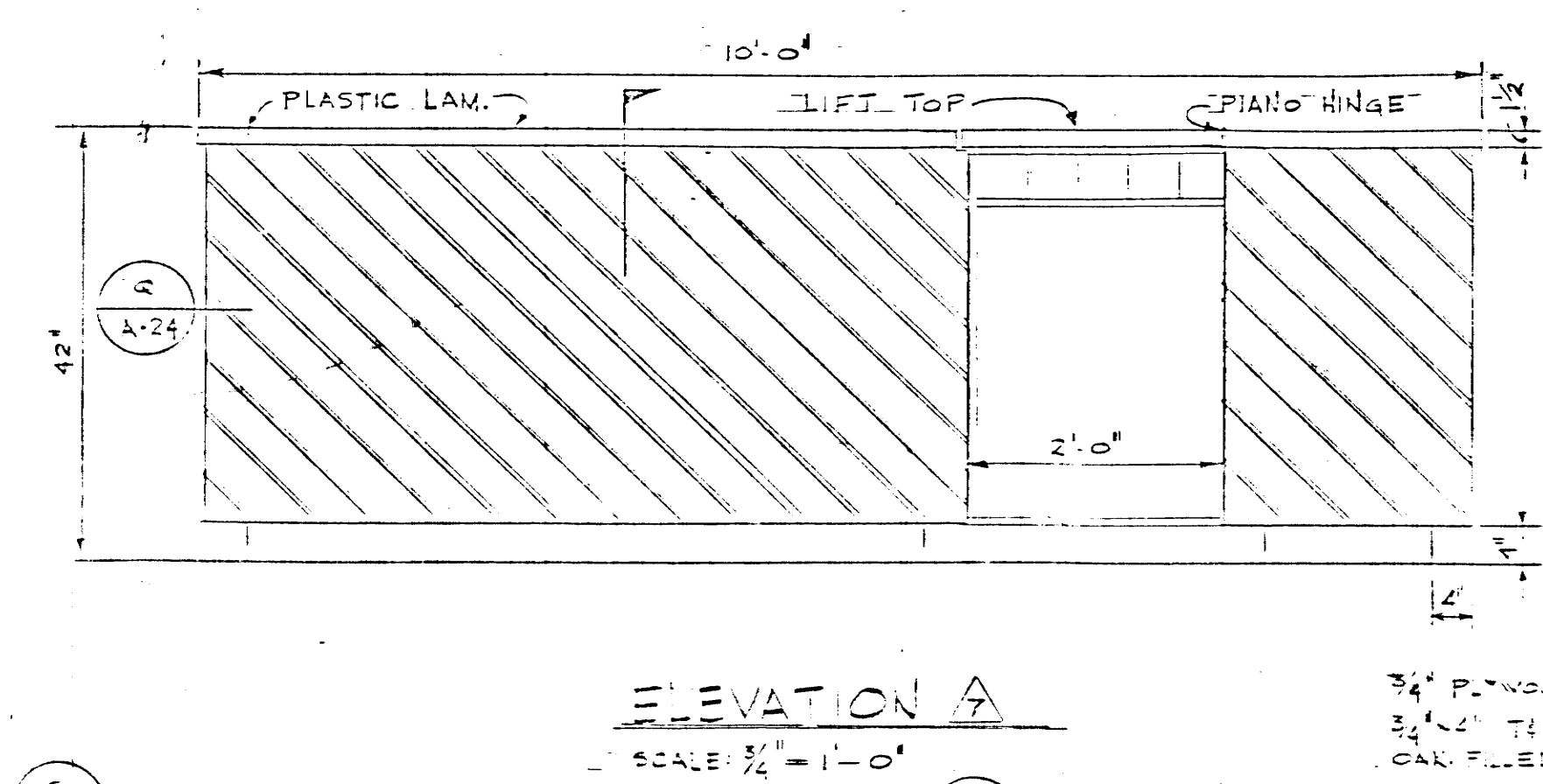
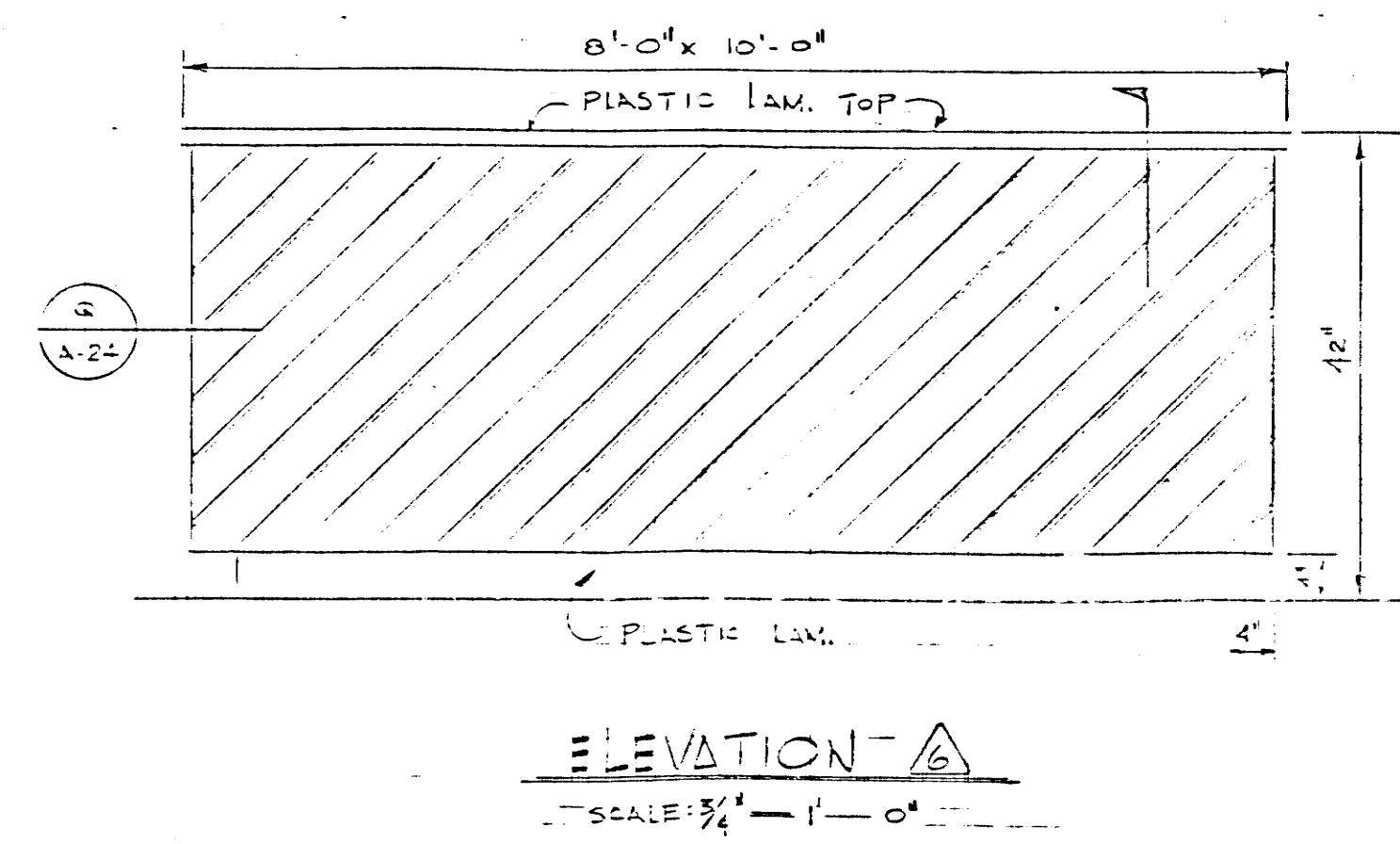
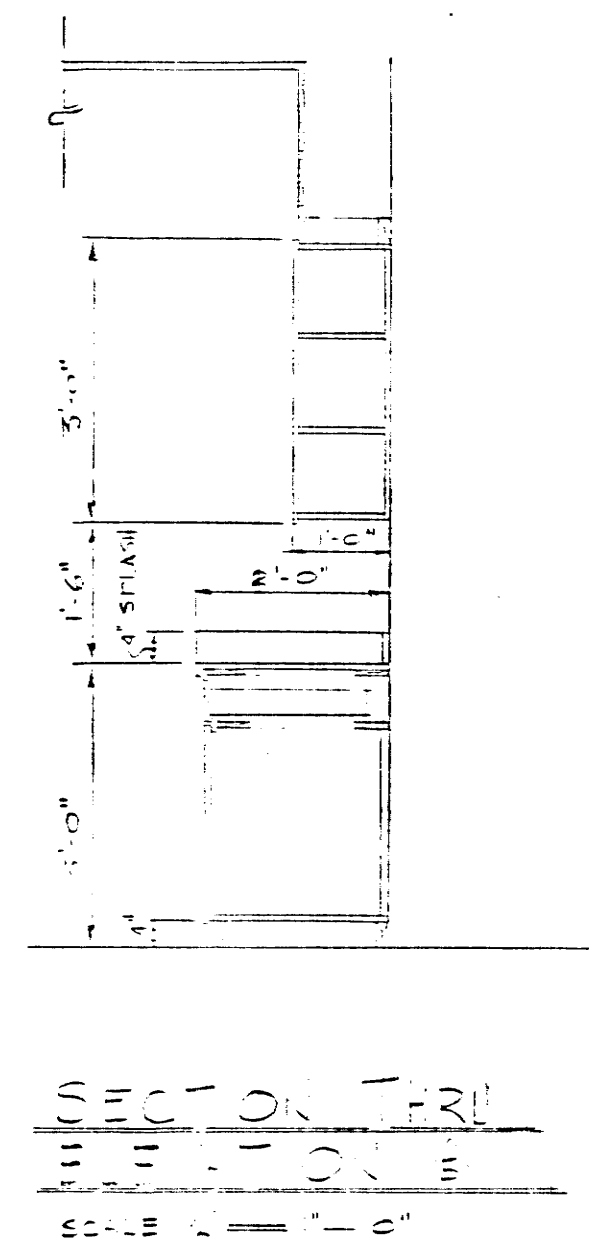
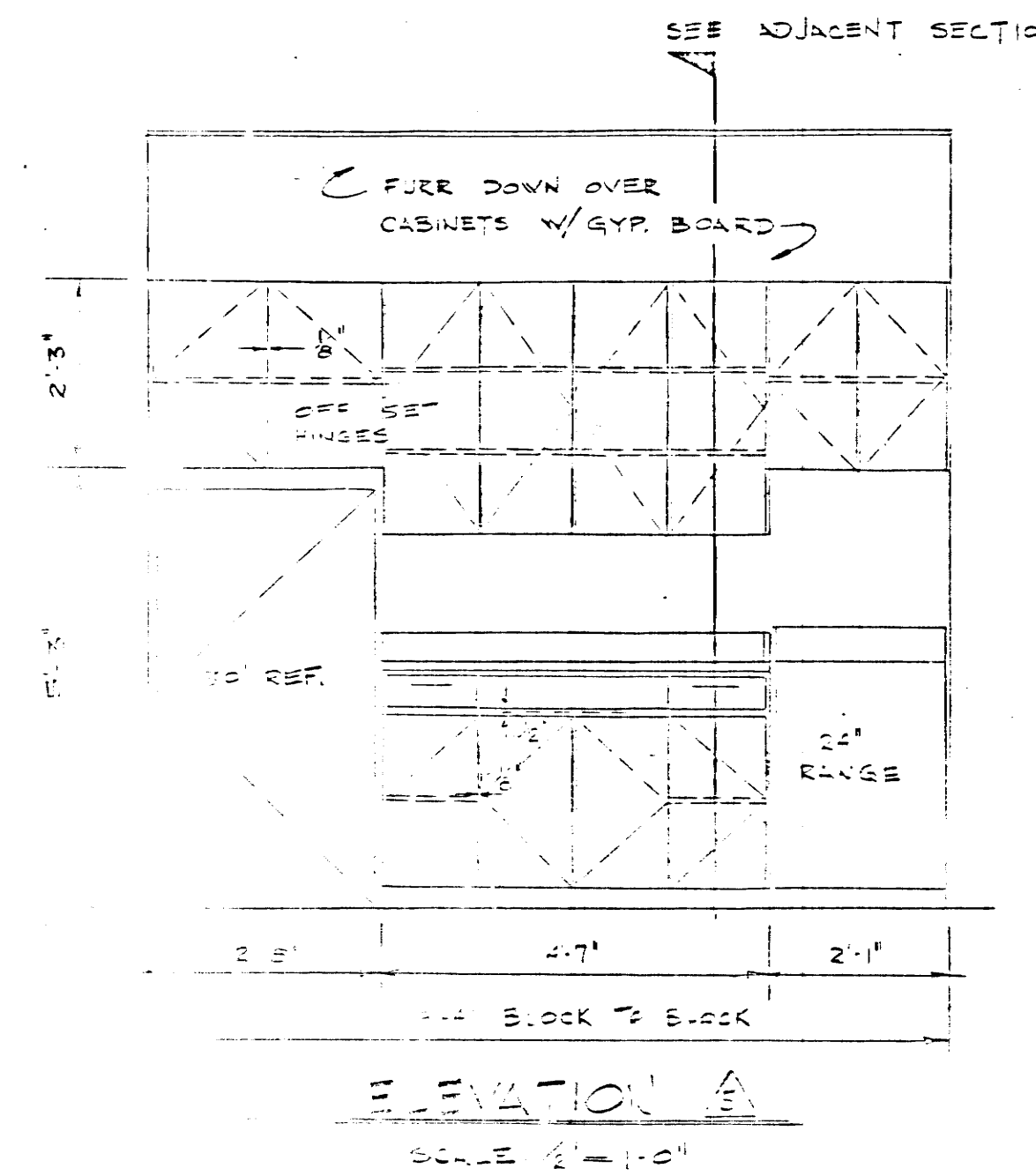
ELECTRICAL PLAN

NOTE: WHERE RECEPTACLE AND POWER OUTLETS ARE SHOWN ON THIS PLAN, CONNECT TO PANEL A. CIRCUIT NUMBERS ARE SHOWN ADJACENT TO OUTLETS.



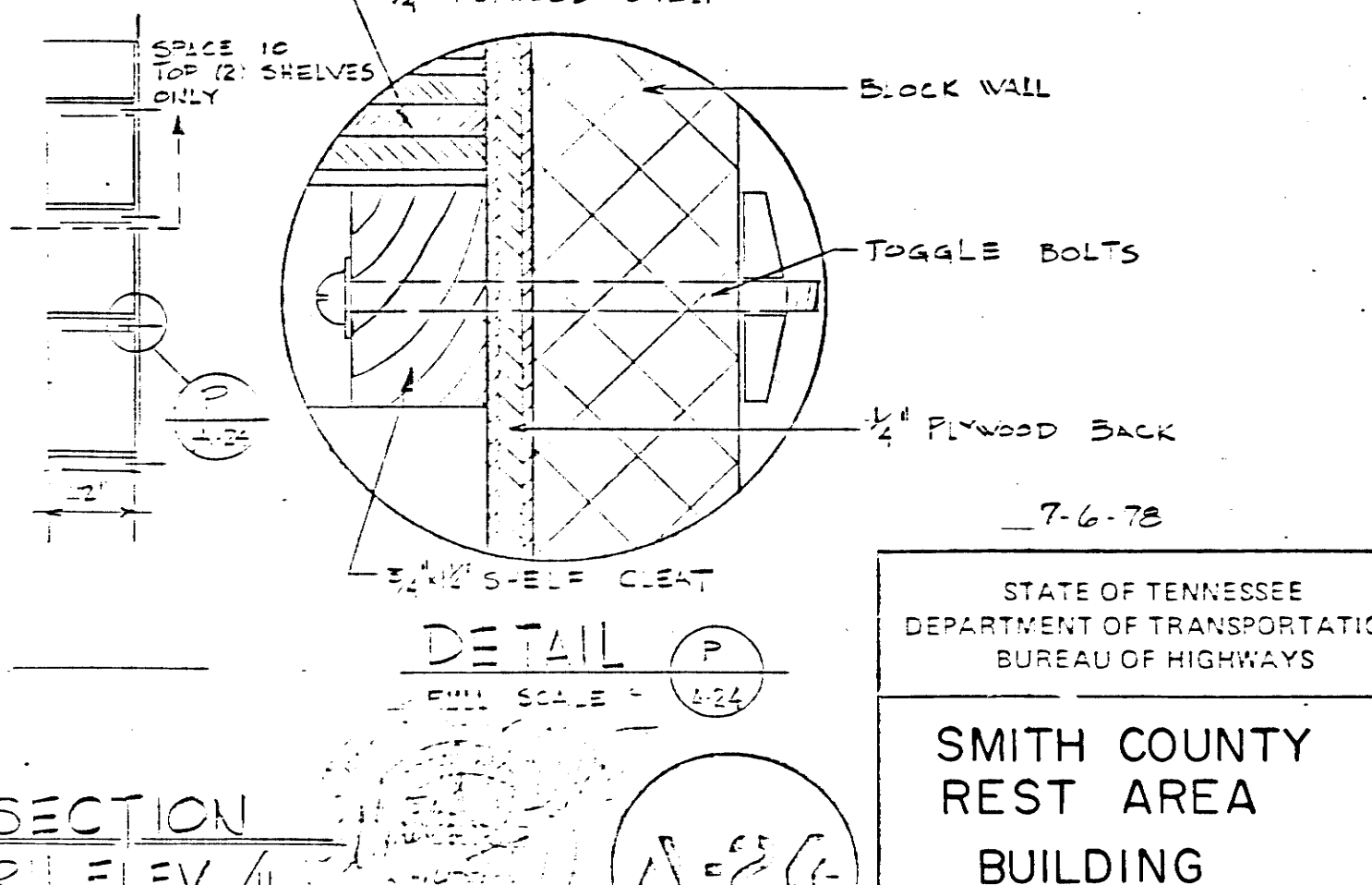
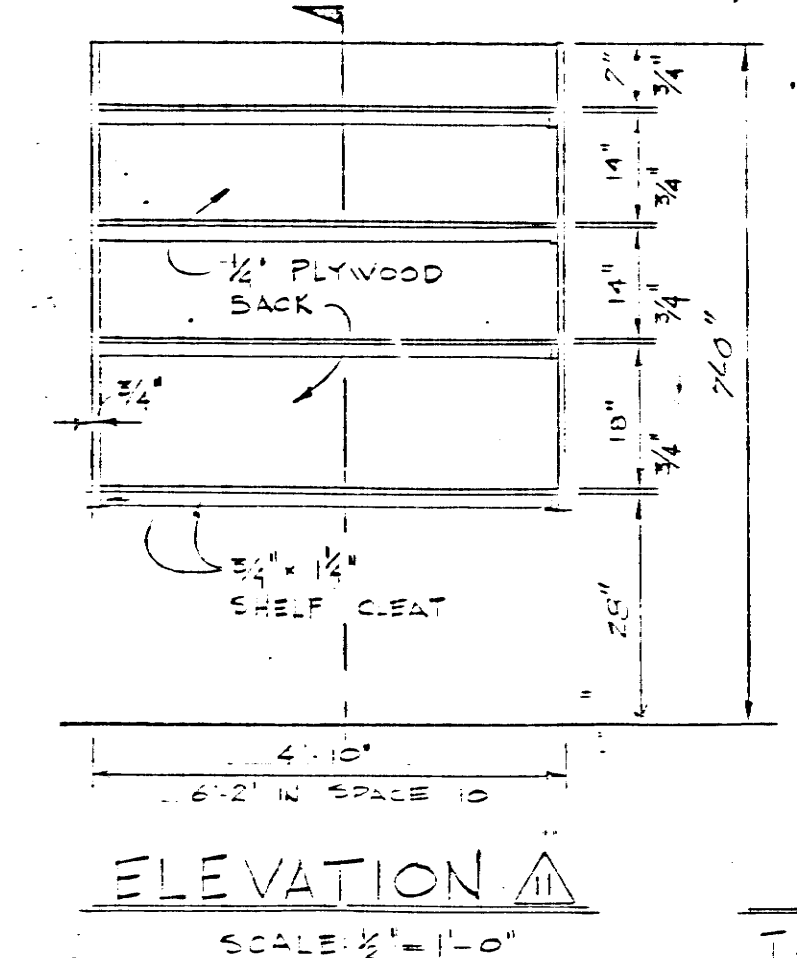
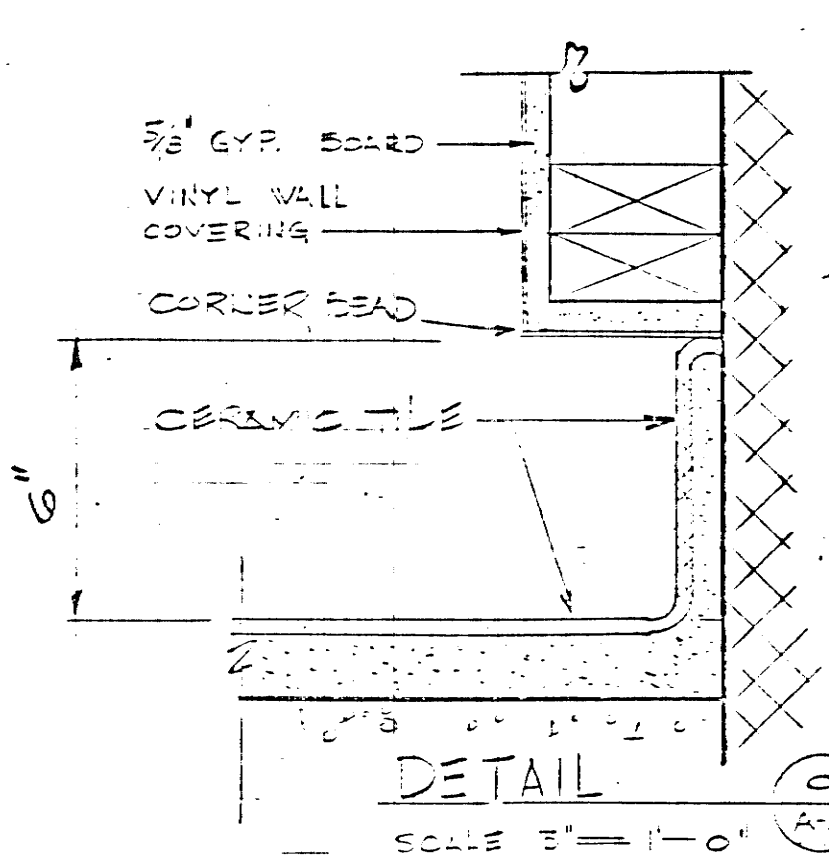
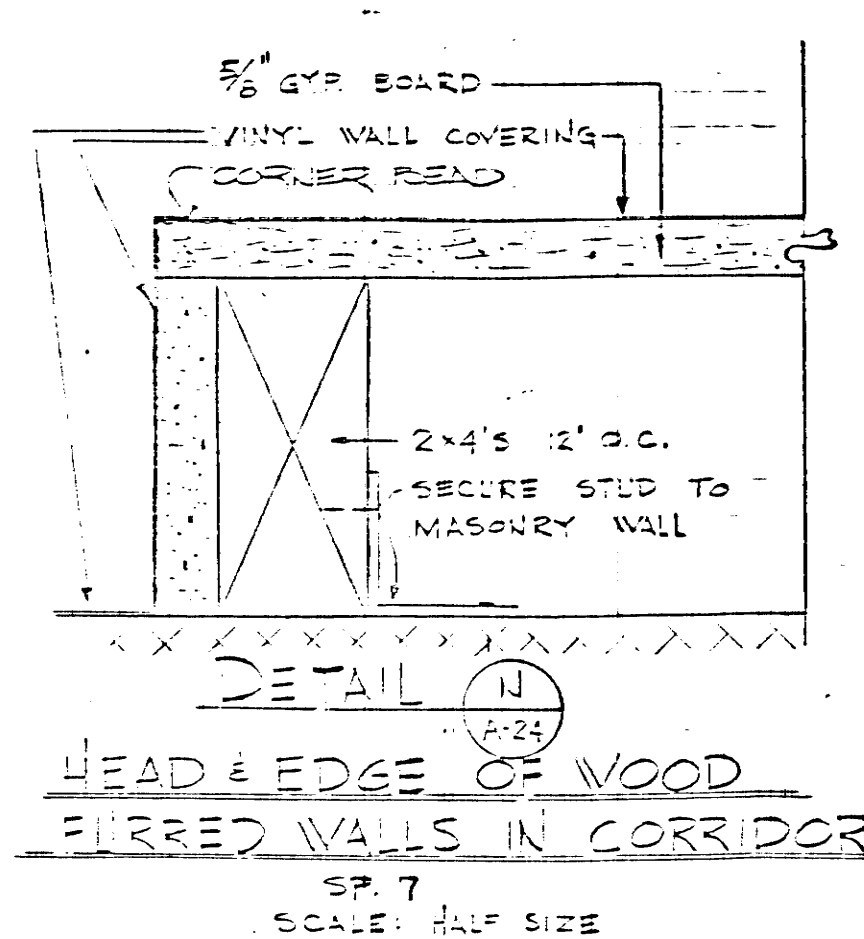
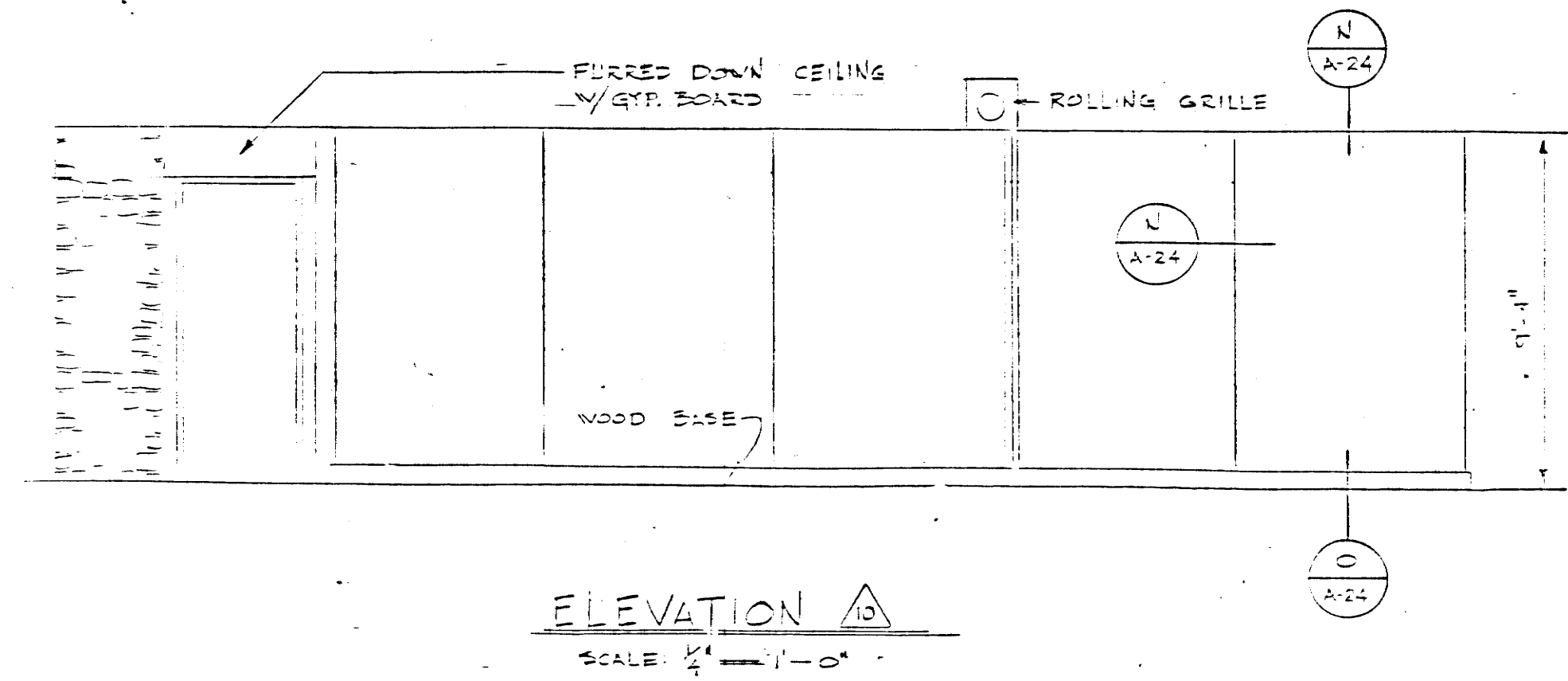
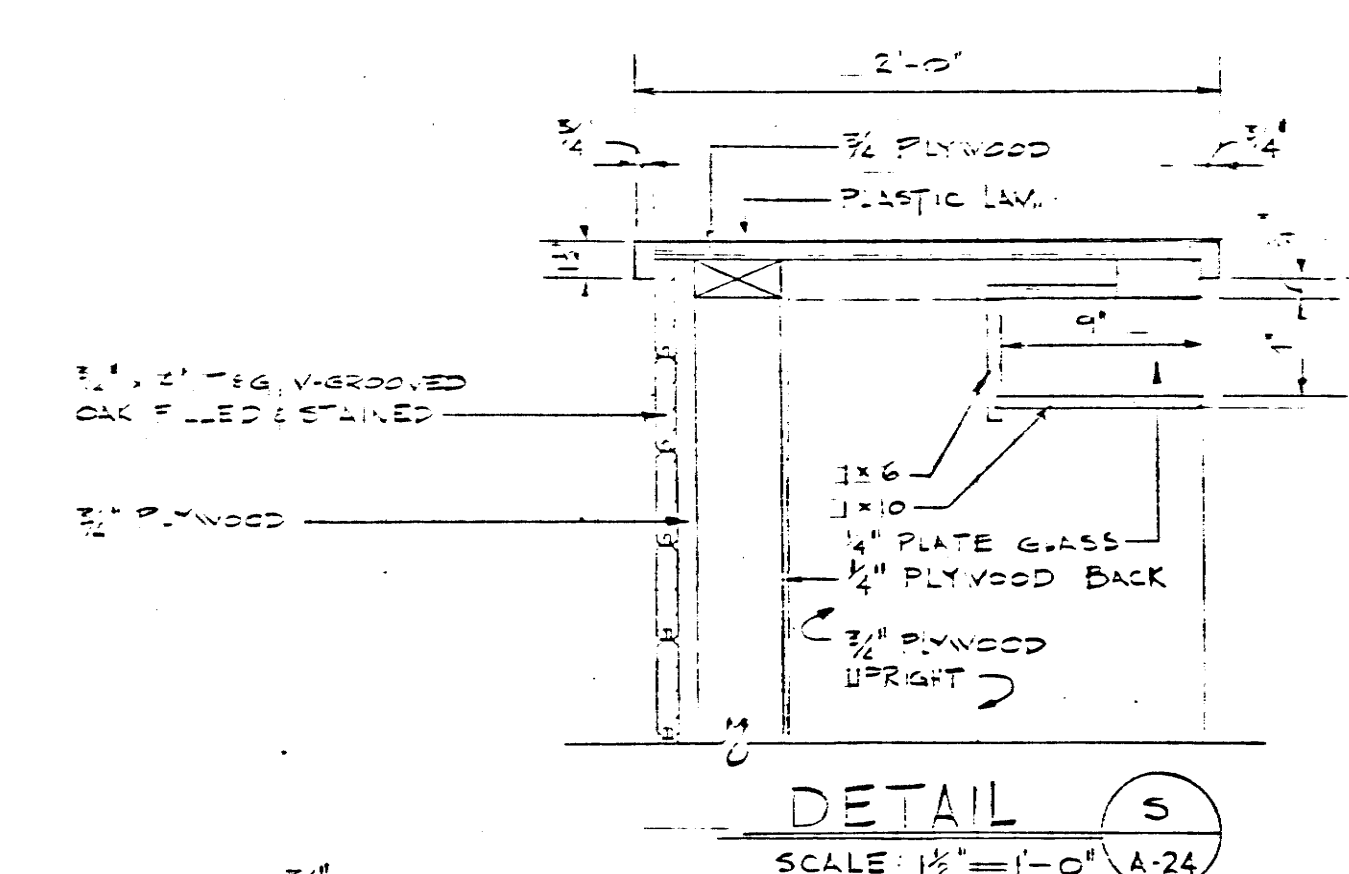
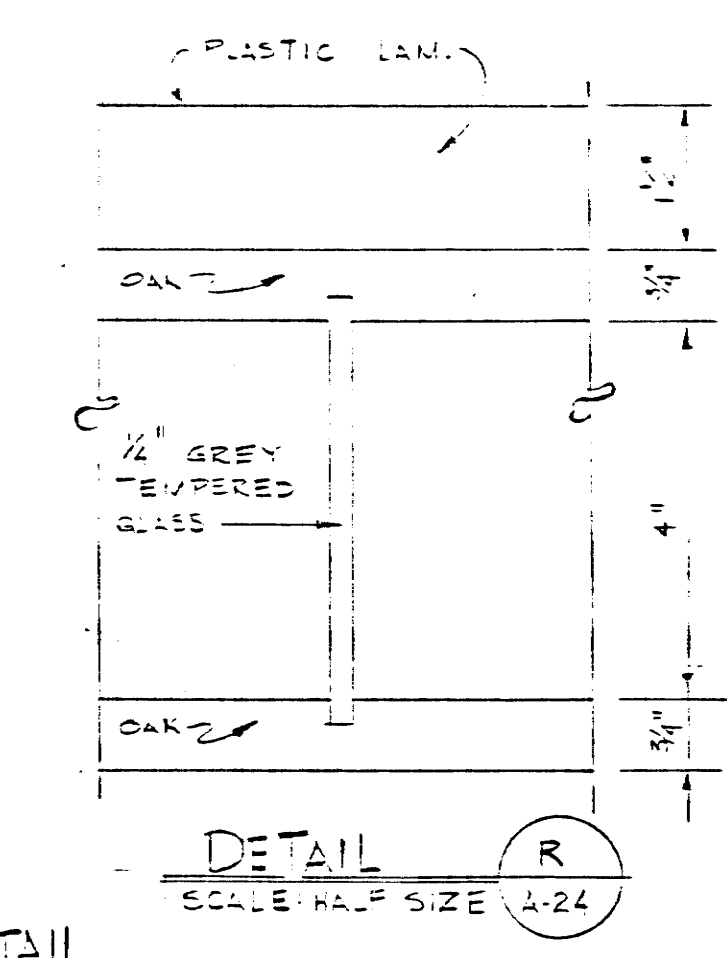
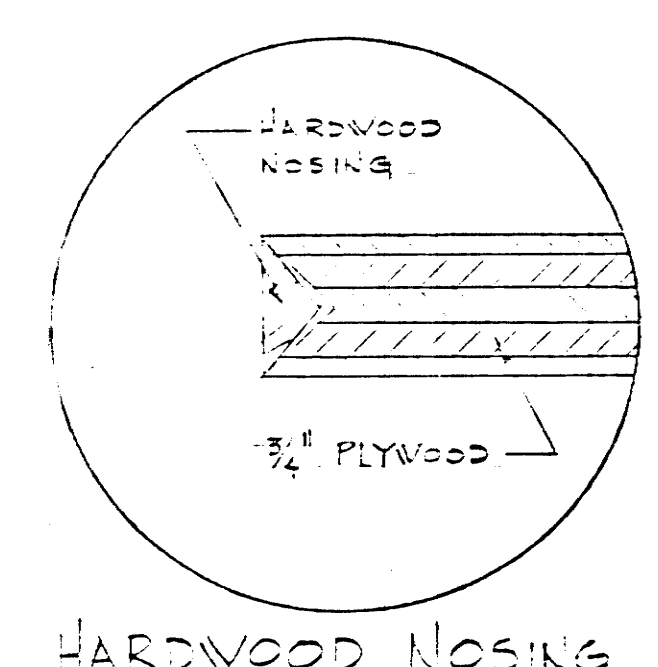
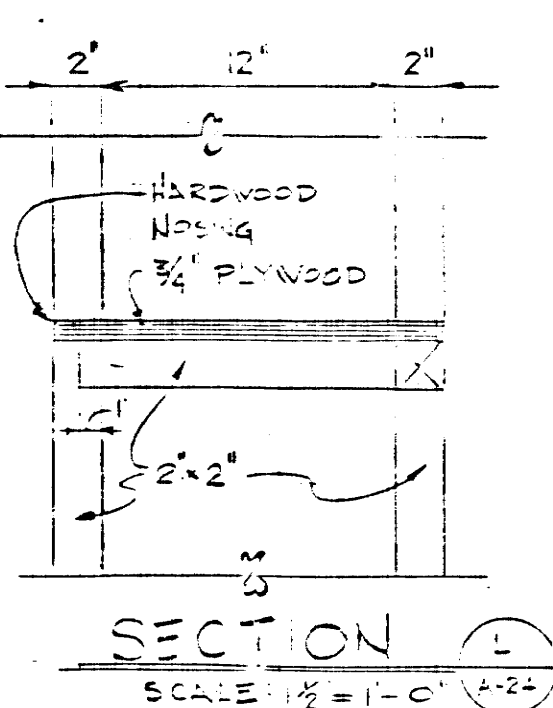
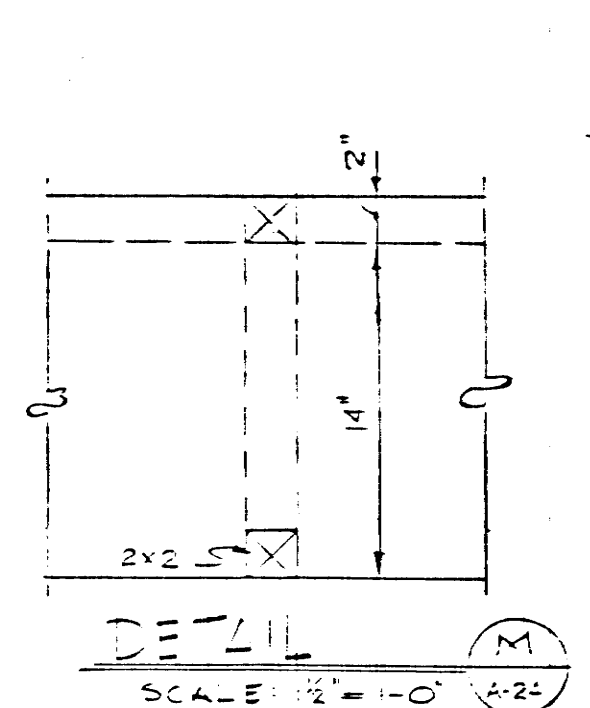
REV 5-10-84: ADDED THIS SHEET TO PLANS.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	84	IR-40-5(82)267	125



SECTION T-R1 ELEV A

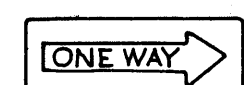
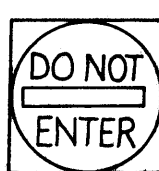
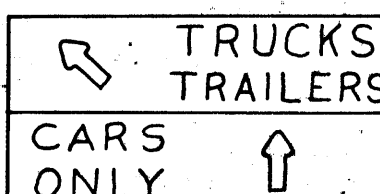
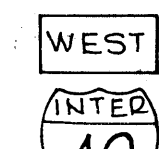
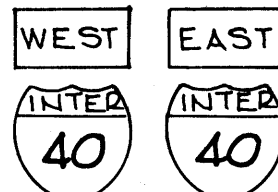
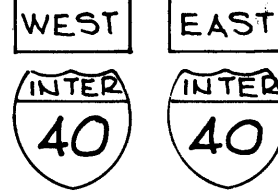
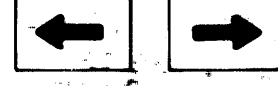
SECTION T-R1 ELEV A



STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION
 BUREAU OF HIGHWAYS
 SMITH COUNTY
 REST AREA
 BUILDING
 I-40 REST AREA 17

File IN-166
Plans
Div.

ALL SIGNS SHOWN WITH DESIGNATIONS ARE TO BE FABRICATED AS
DETAILED IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (DATED 1971)

SIGN NO	LEGEND	SHEET NO.	SIZE				COPY				SHEILD	ARROW	SIGN FACE			STEEL DESIGN (BREAK-AWAY)					REMARKS											
			LENGTH	HEIGHT	RADIUS	BORDER WIDTH	CAPITAL	LOWER CASE	NUMERAL	SERIES			COPY	BACKGROUND	MATERIAL	SUPPORT TYPE	SUPPORT LENGTH	FOOTING	CONC. CU.YD.	REIN. STEEL LBS.		MINIMUM VERTICAL CLEARANCE										
1	 R 7-8	4	12"	18"									GREEN(REF)	WHITE (REF)	0.080"SHEET ALUMINUM	2" ϕ @ 3.12"/FT.	h = 4'-6"	TYPE 4 D = 1'-0"	0.12	26.4	1'-0"											
2																	h = 4'-6"															
3																	h = 4'-6"															
4																	h = 4'-6"															
5																	h = 4'-6"															
6																	h = 4'-6"															
7																	h = 4'-6"															
8																	h = 4'-6"															
9	 R 3-1	4	24"	24"									BLACK RED (REF.)	WHITE (REF.)	0.080"SHEET ALUMINUM	2" ϕ @ 3.12"/FT.	h = 10'-6"	TYPE 4 D = 1'-0"	0.12	26.4	7'-0"											
10																	h = 10'-6"															
25	 R 1-1	4	30"	30"									WHITE (REF.)	RED (REF.)	0.080"SHEET ALUMINUM	2" ϕ @ 3.12"/FT.	h = 11'-0"	TYPE 4 D = 1'-0"	0.12	26.4	7'-0"											
27		4															h = 11'-0"															
12	 R 7-8 (MOD) AS NOTED	4	24"	36"									GREEN (REF.) WHITE SYMBOL ON BLUE BACKGROUND	WHITE (REF.)	0.080"SHEET ALUMINUM	2" ϕ @ 3.12"/FT.	h = 11'-0"	TYPE 4 D = 1'-0"	0.12	26.4	7'-0"	ALL DIMENSIONS FOR COPY DOUBLED										
23		4															(LT)															
24		4															(RT)															
																	(RT)															
13	 R 6-1R	4	36"	12"									BLACK	WHITE (REF.) BLACK	0.080"SHEET ALUMINUM	2" ϕ @ 3.12"/FT.	h = 9'-6"	TYPE 4 D = 1'-0"	0.12	26.4	7'-0"											
14	 R 5'-1	4	30"	30"									WHITE (REF.)	WHITE (REF.)	0.080"SHEET ALUMINUM	2" ϕ @ 3.12"/FT.	h = 11'-0"	TYPE 4 D = 1'-0"	0.12	26.4	7'-0"	MOUNTED ON BACK OF SIGN NO. 12										
15		4															h = 11'-0"															
21		4															h = 11'-0"															
21A		4															h = 11'-0"															
22		4															h = 11'-0"															
22A		4															h = 11'-0"															
16	 R 5-2A	4	36"	24"									WHITE (REF.)	RED (REF.)	0.080"SHEET ALUMINUM	2" ϕ @ 3.12"/FT.	h = 10'-6"	TYPE 4 D = 1'-0"	0.12	26.4	7'-0"											
17																	h = 10'-6"															
18	 TRUCKS TRAILERS CARS ONLY	4	4'-6"	4'-0"	2 1/4"	3/4"	6"			"C"		6" x 9" @ 45° 6" x 9"	WHITE (REF.)	GREEN (REF.)	0.125"SHEET ALUMINUM	53 x 5.7	h ₁ = 13'-3" h ₂ = 13'-3"	TYPE 5 D = 1'-3"	0.18	50.1	7'-0"											
19	 R 7-8 (MOD)	4	24"	36"									GREEN (REF.) WHITE SYMBOL ON BLUE BACKGROUND	WHITE (REF.)	0.080"SHEET ALUMINUM							* MOUNTED TO OUTSIDE SUPPORT BENEATH SIGN # 18 * ALL DIMENSIONS FOR COPY TO BE DOUBLED										
28	 M 3-4	4	24"	12"								24" x 24"	WHITE (REF.)	BLUE (REF.)	0.080" SHEET ALUMINUM	2" ϕ @ 3.12"/FT.	h = 13'-3"	TYPE 4 D = 1'-0"	0.12	26.4	7'-0"											
	 M G-1		21"	15"																												
29	 M 3-2		24"	12"								24" x 24"	WHITE (REF.)	BLUE (REF.)	0.080" SHEET ALUMINUM	2" ϕ @ 3.12"/FT.	h = 13'-3"	TYPE 4 D = 1'-0"	0.12	26.4	7'-0"											
	 M G-1		21"	15"																												
20	M 3-4 	M 3-2	24"	12"								24" x 24"	WHITE (REF.)	BLUE (REF.)	0.080" SHEET ALUMINUM	2" ϕ @ 3.12"/FT.	h ₁ = 13'-3" h ₂ = 13'-3"	TYPE 4 D = 1'-0"	0.12	26.4	7'-0"											
	M G-2 		21"	15"																												
26	M 3-4 	M 3-2	24"	12"								24" x 24"	WHITE (REF.)	BLUE (REF.)	0.080" SHEET ALUMINUM	2" ϕ @ 3.12"/FT.	h ₁ = 13'-3" h ₂ = 13'-3"	TYPE 4 D = 1'-0"	0.12	26.4	7'-0"											
	M G-1 		21"	15"																												

TYPE	YEAR	PROJECT NO.
CONST.	1984	IR 40-5(82)267 2

REVISED 3/8/84
THIS SHEET ADDED TO PLAN
REV. 11-1-85 ; ARROW
CORRECTED ON SIGN NO. 1
SIGN NO. 11 ELIMINATED.
SIGN NOS. 20, 21, 21A, 22, 22A, 23, 24,
25, 26, 27, 28 & 29 ADDED.