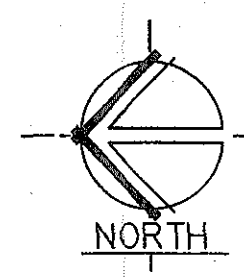
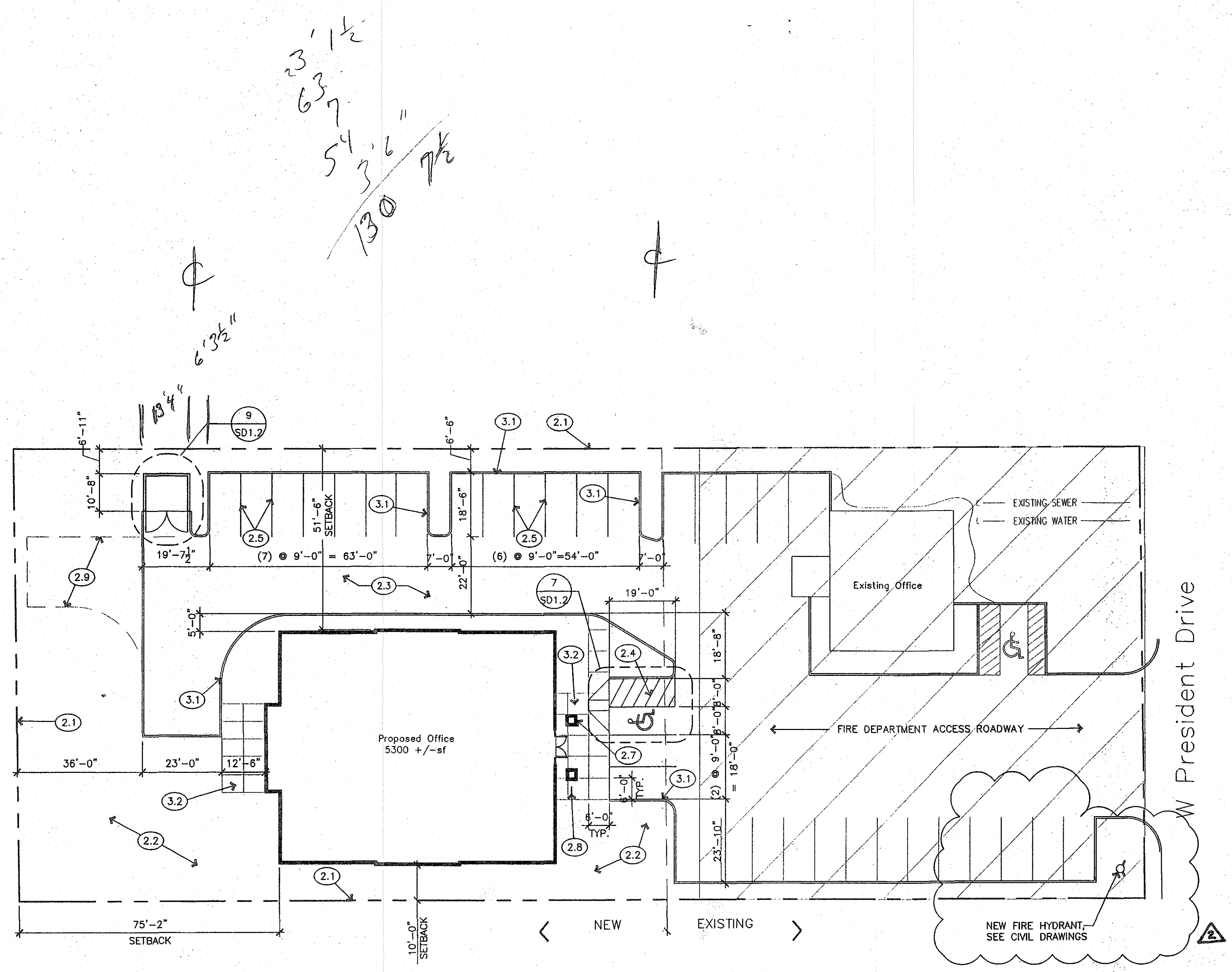


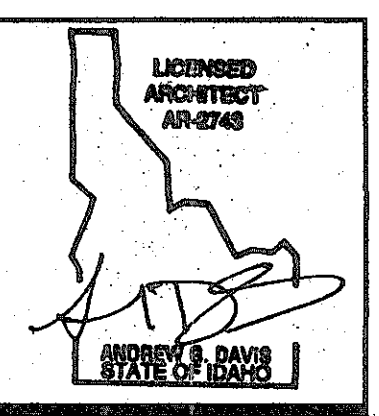
5806-658
Jason



SITE PLAN
SCALE: 1"=20'

RECEIVED
BOISE BUILDING DEPARTMENT
AUG 30 2006
RESUBMITTAL

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NO.	REVISIONS	DATE
1	REVISIONS PER PLAN REVIEW REPORT COMMENTS	8/17/06
2	REVISIONS PER FIRE CODE REVIEW COMMENTS	8/28/06

1010 S. ALLANTE PL.
SUITE 100
BOISE, IDAHO 83709
(208) 336-8370
FAX (208) 336-8380

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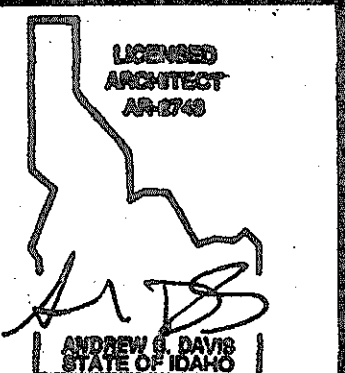
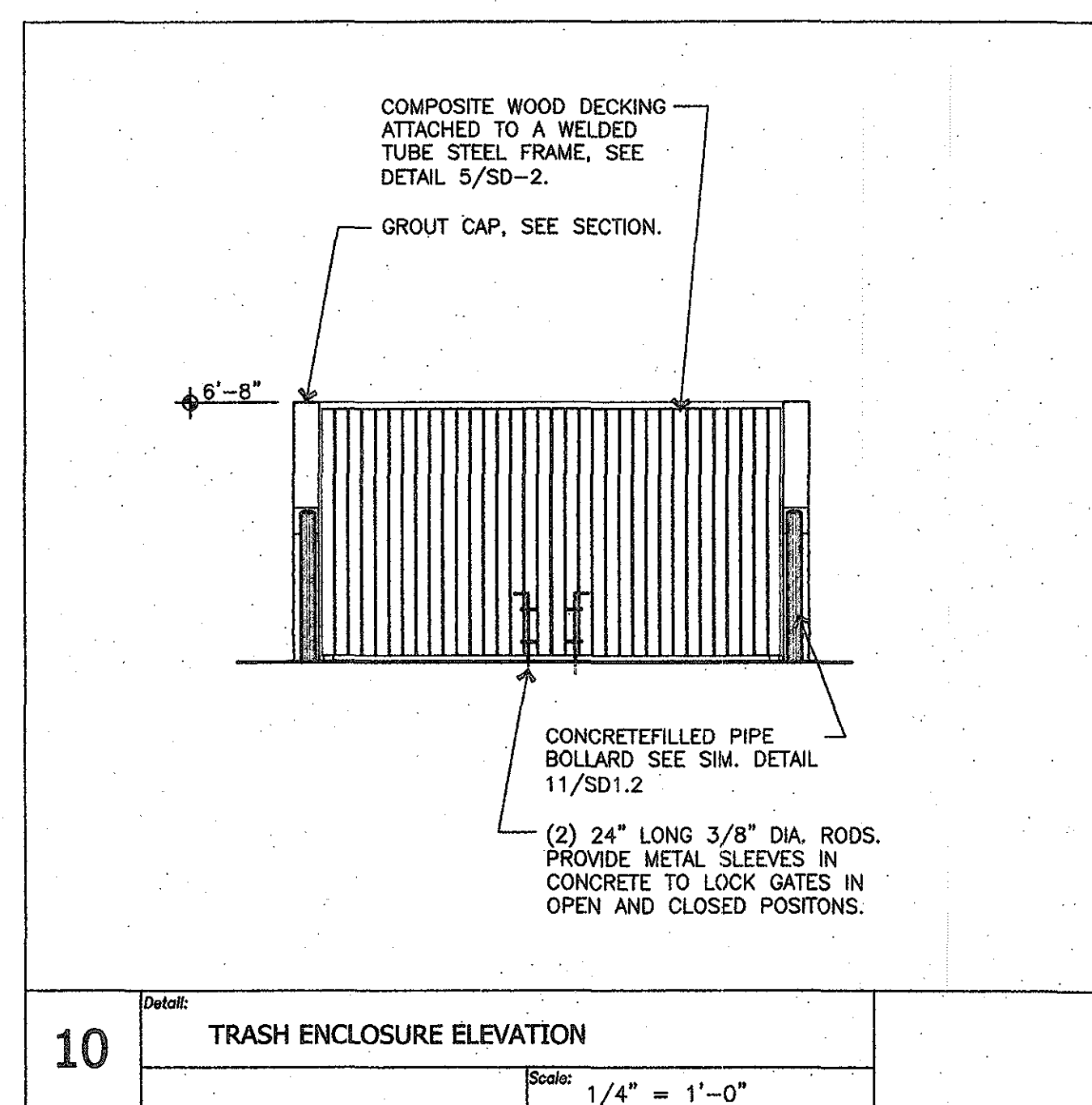
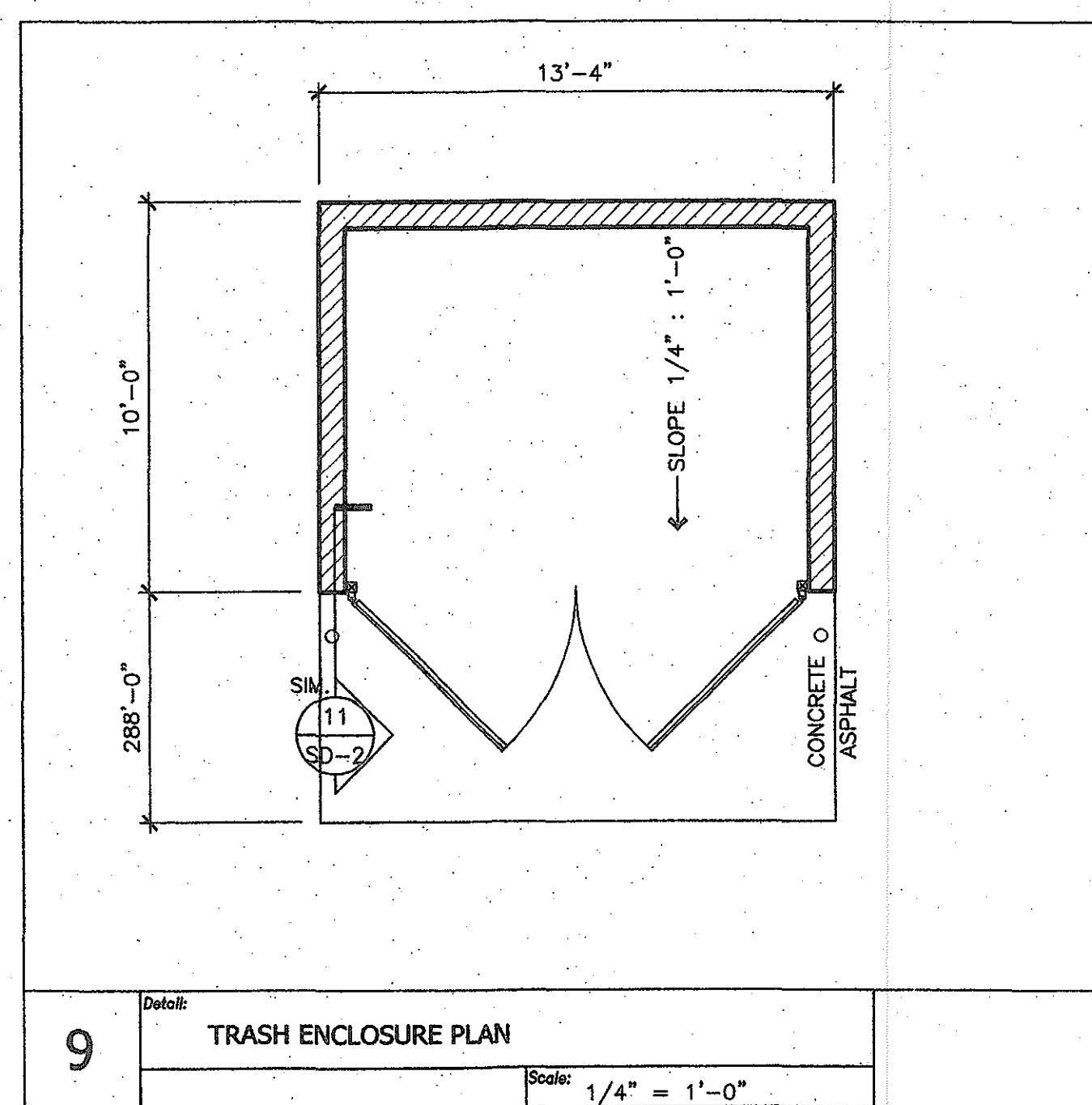
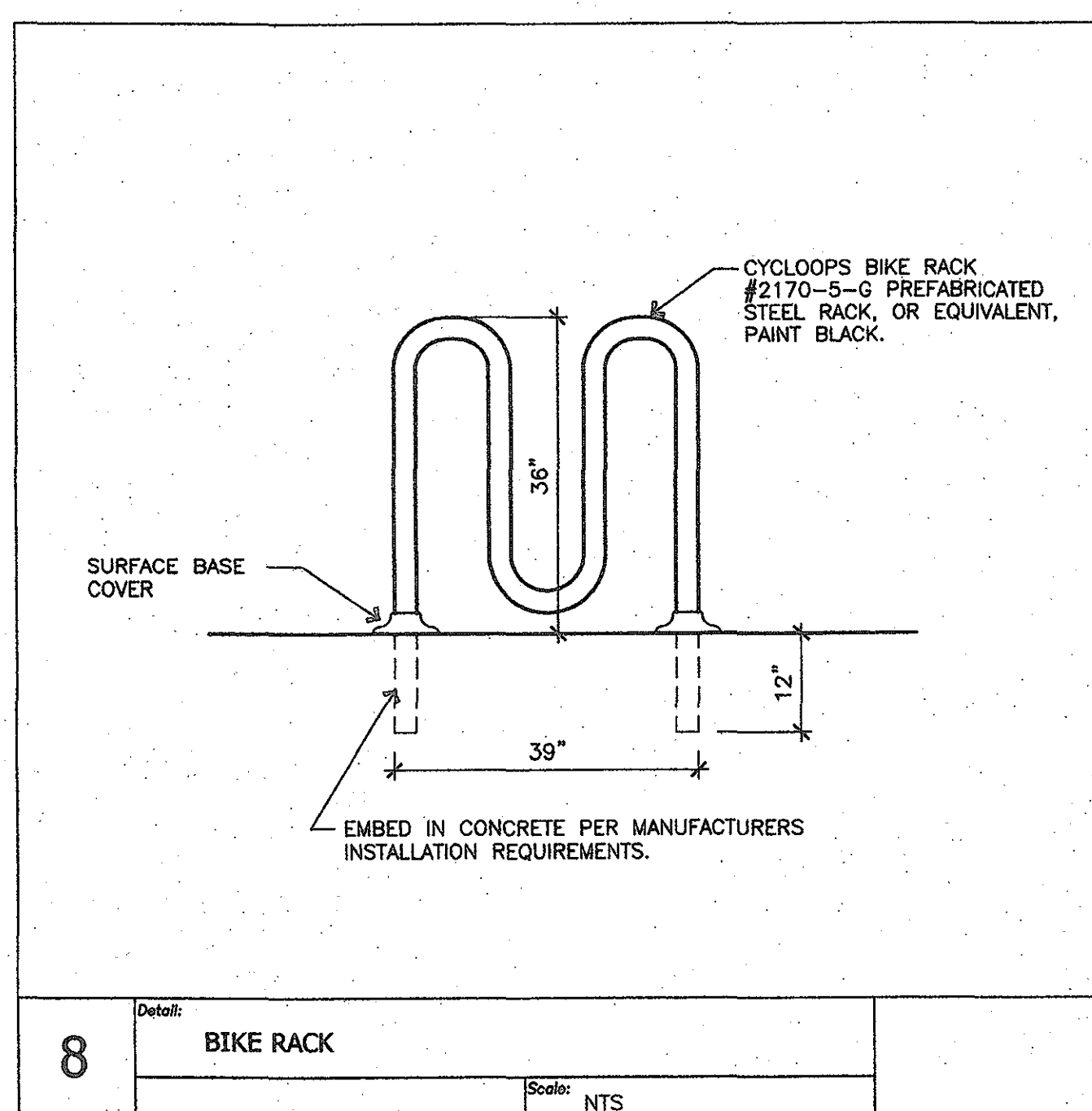
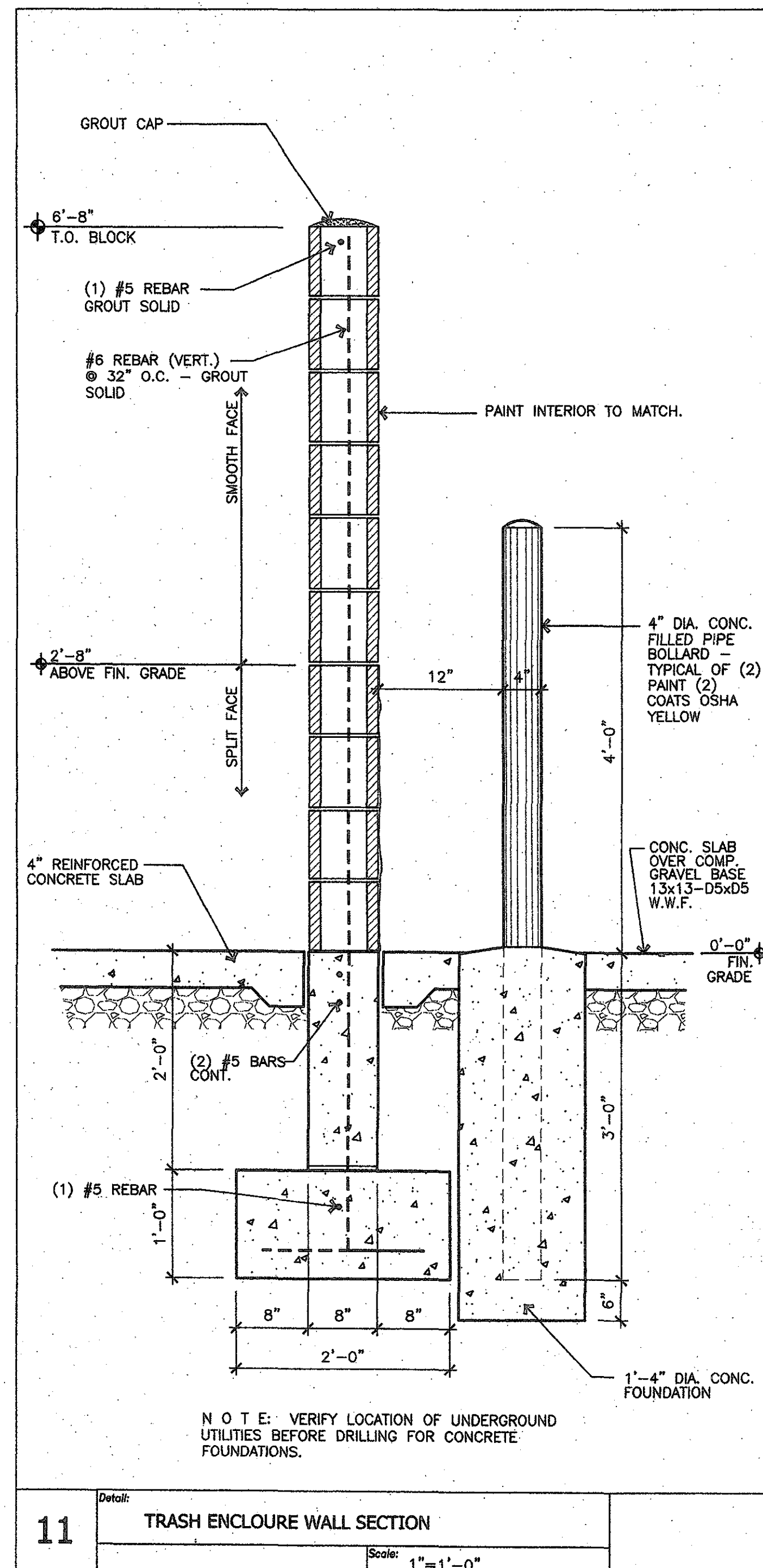
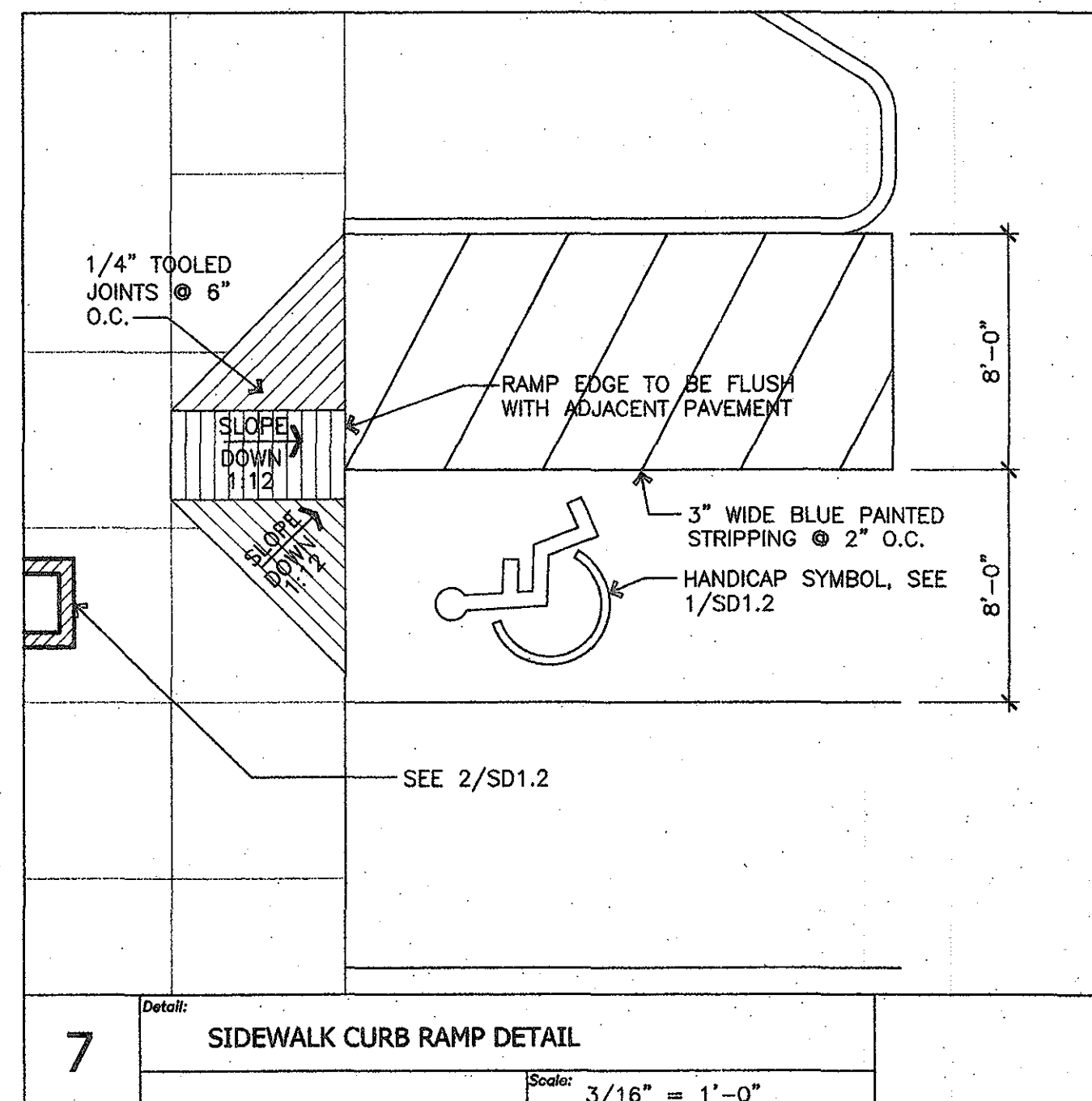
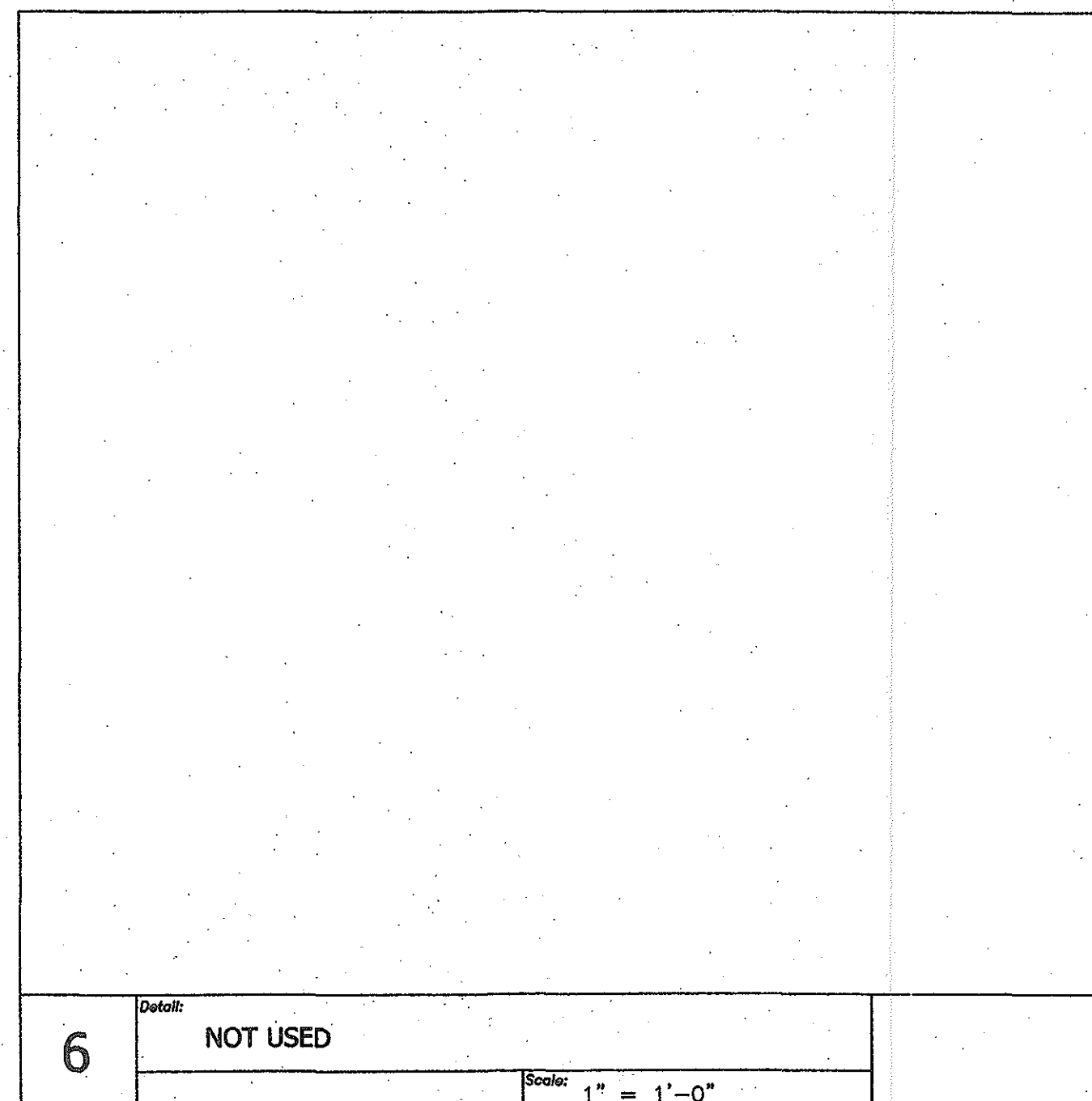
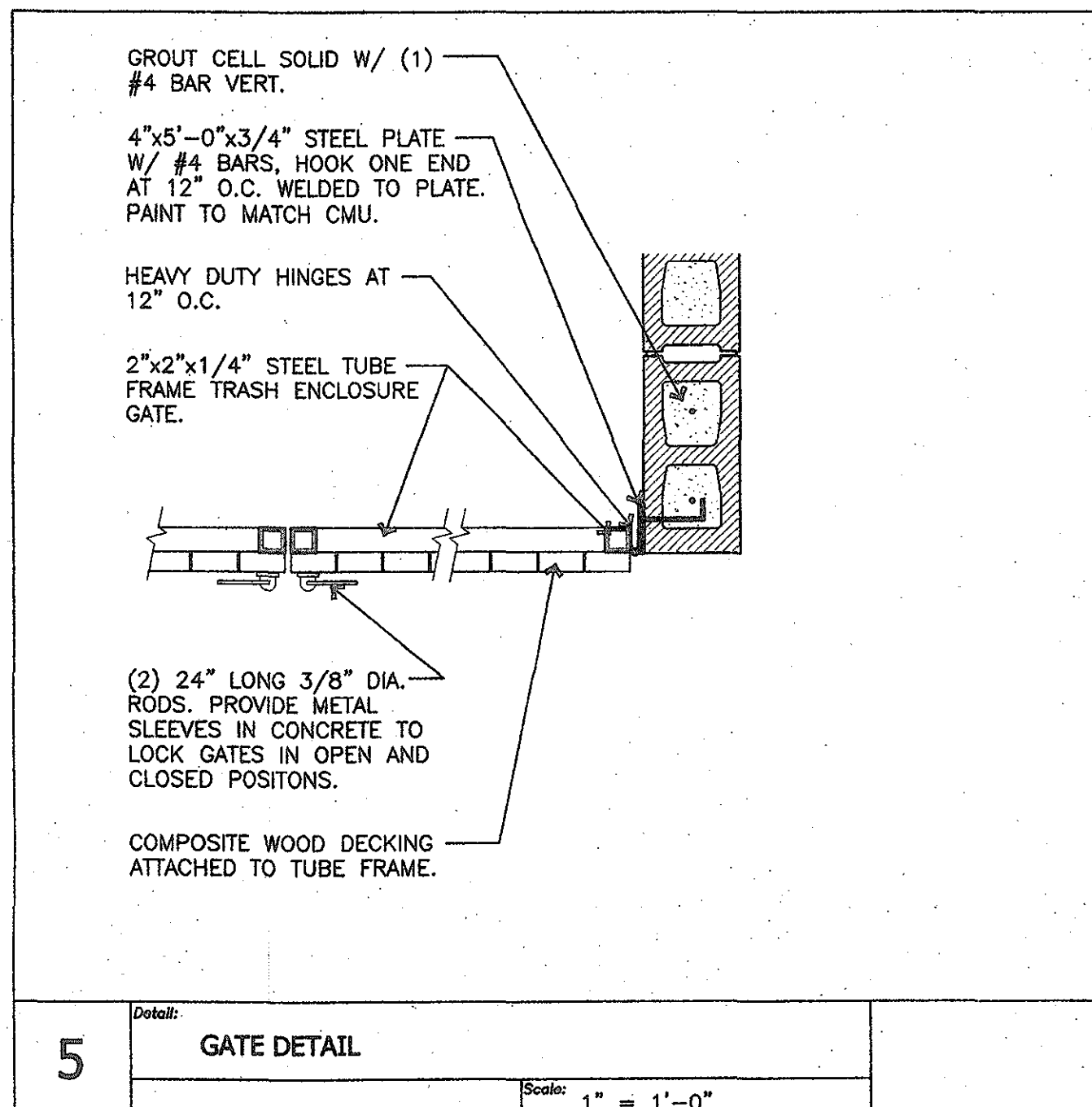
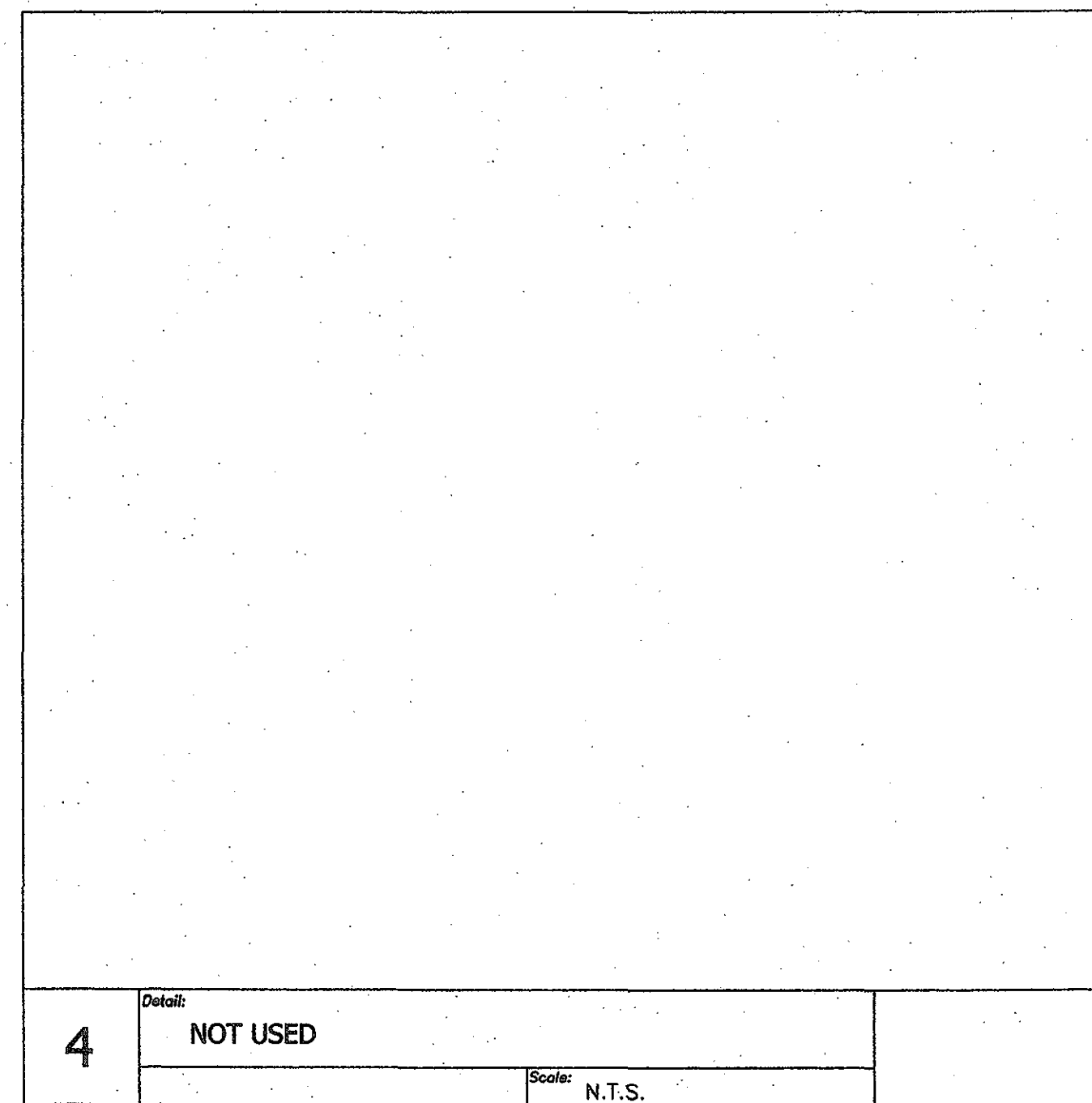
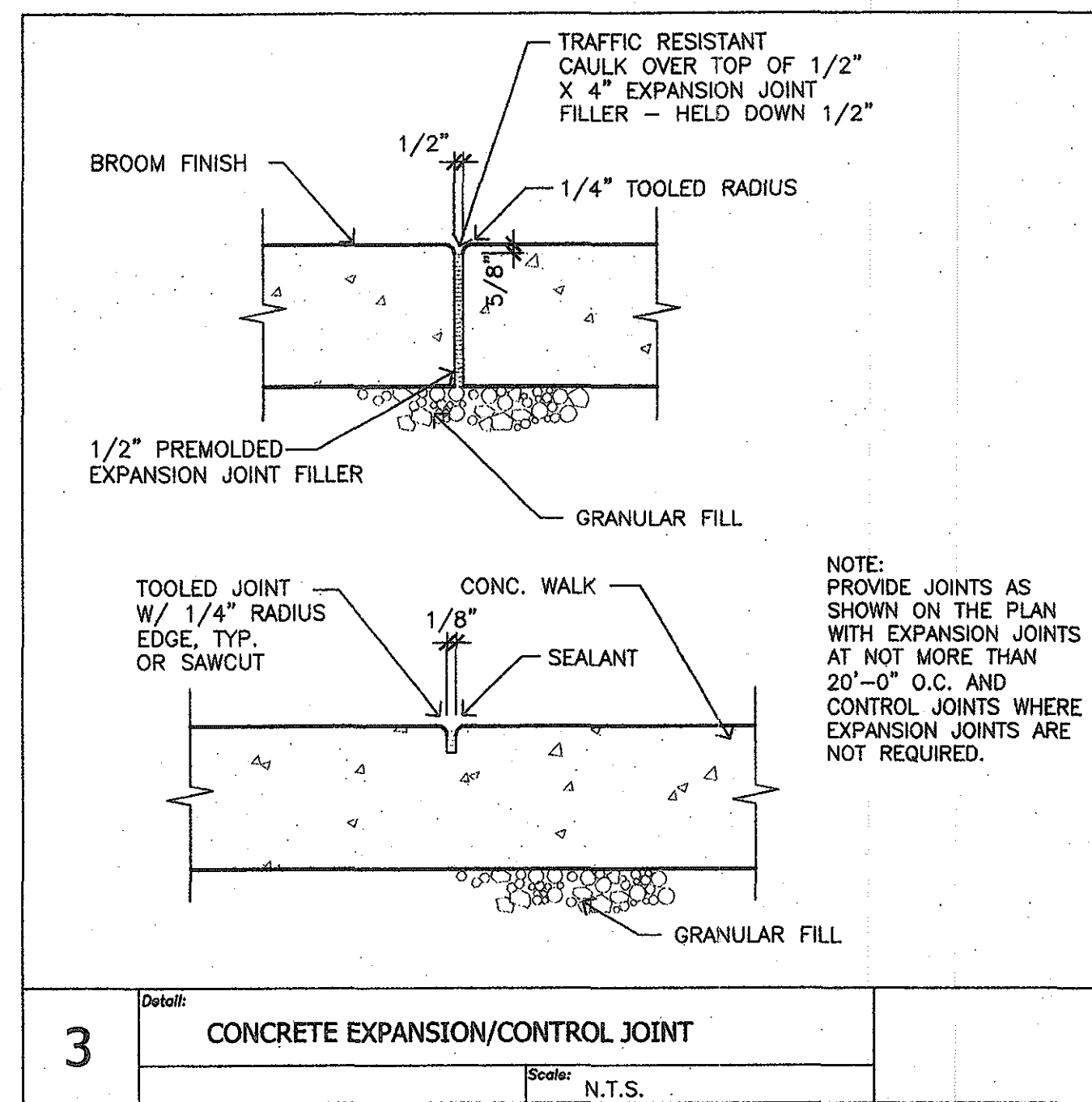
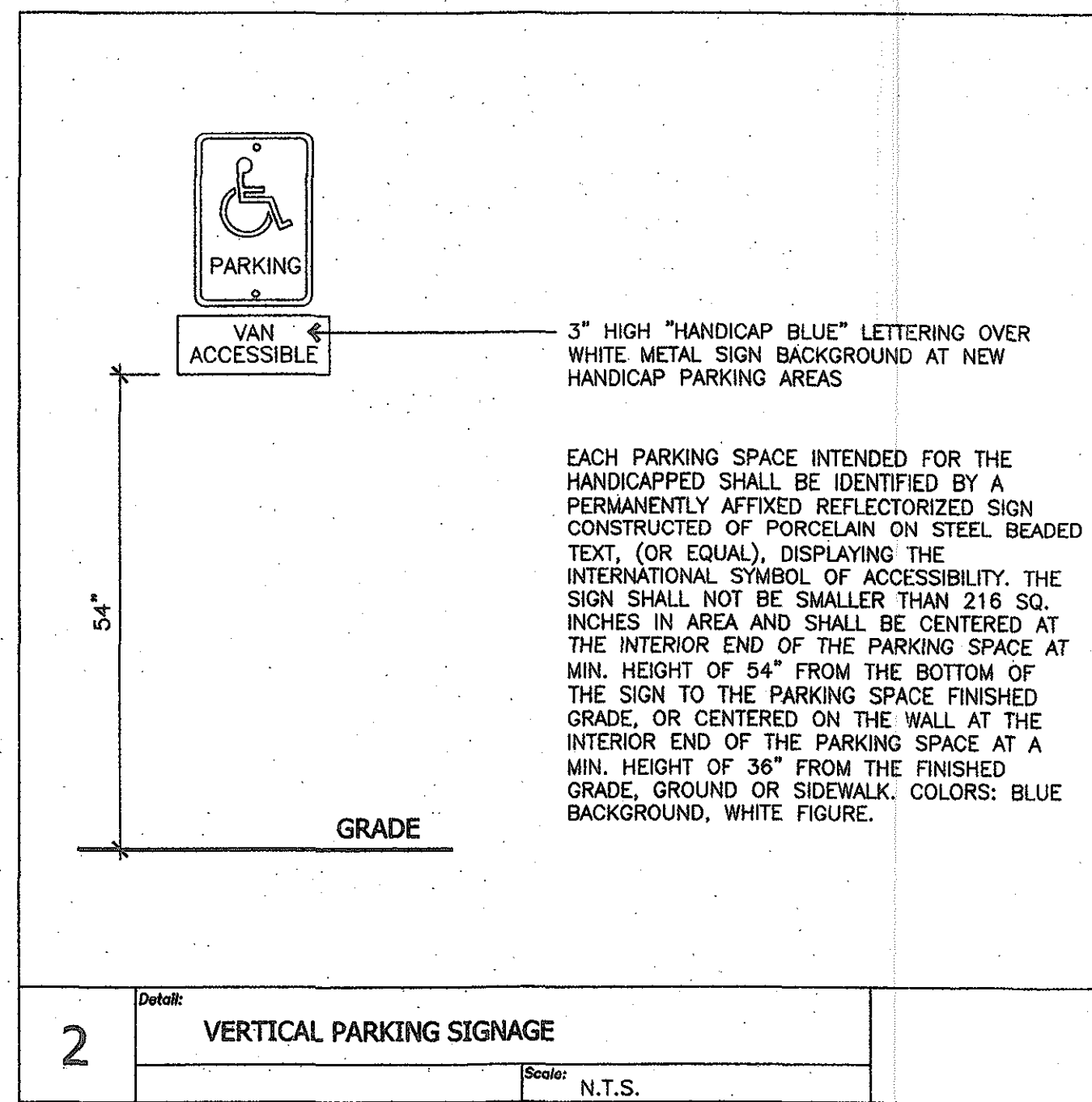
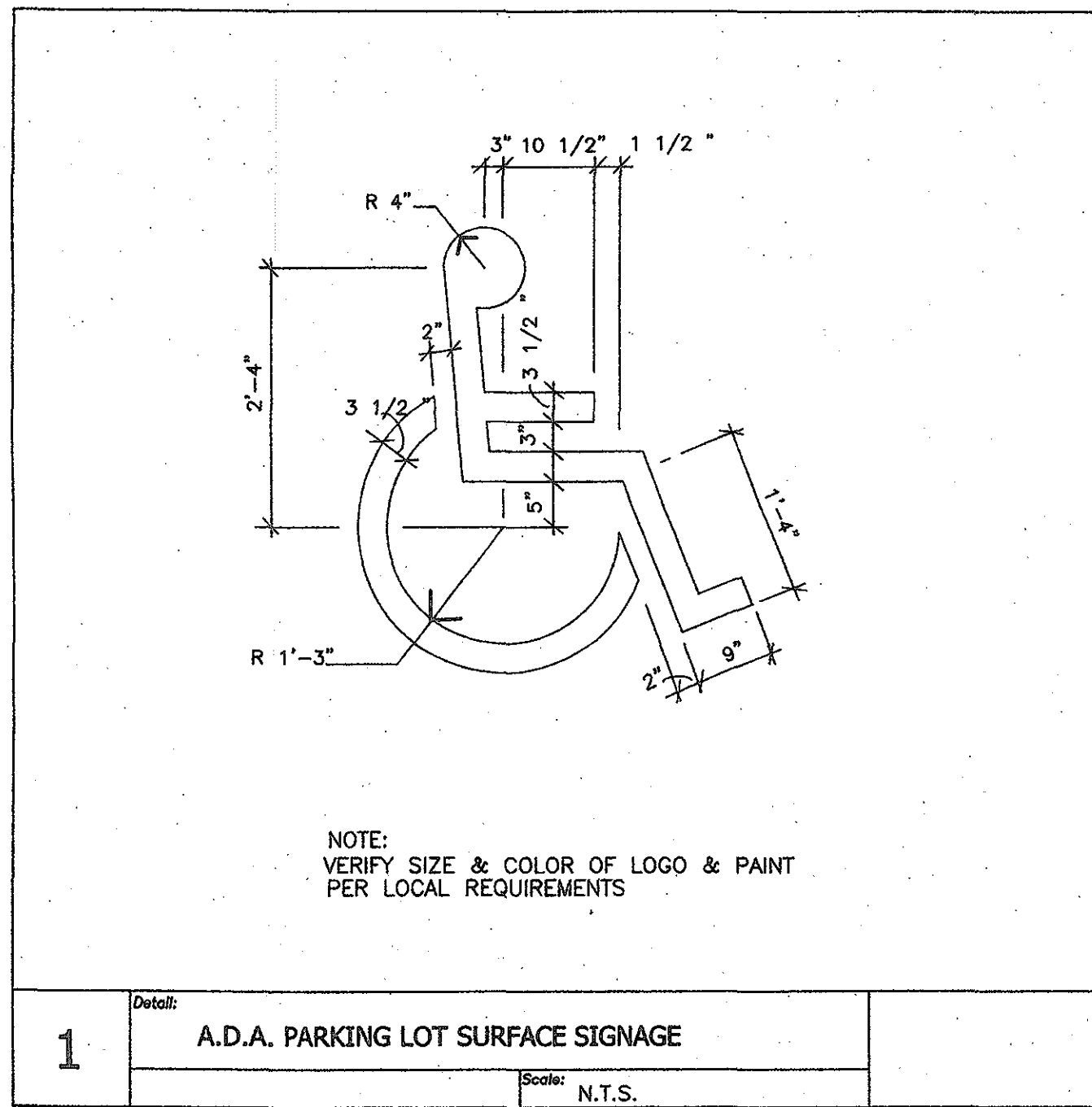
PROPOSED DEVELOPMENT FOR:

RAYCO

BOISE, IDAHO

PRESIDENT DRIVE

DRAWN
DATE
CHECKED AGD
JOB NO. 05259.00
SHEET SD1



DATE	
REVISIONS	
NO.	

1010 S. ALLANTE PL
SUITE 100
BOISE, IDAHO 83709
(208) 336-8370
FAX (208) 336-8380



BOISE, IDAHO

RAYCO

PROPOSED DEVELOPMENT FOR:
PRESIDENT DRIVE

DRAWN	
DATE	
CHECKED	
JOB NO.	
SHEET	

SD1.2

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DATE	
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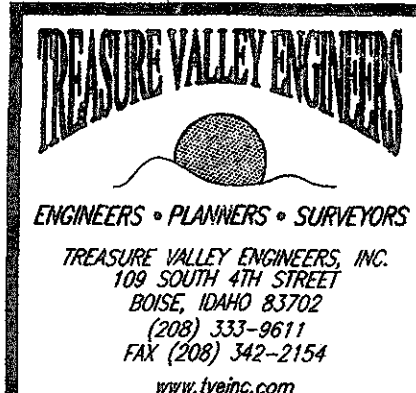
1010 S. ALLANTE PL.
SUITE 100
BOISE, IDAHO 83709
(208) 336-8370
FAX (208) 336-8380



BOISE, IDAHO

PROPOSED DEVELOPMENT FOR:
RAYCO
PRESIDENT DRIVE

DRAWN	DLM
DATE	06/13/2006
CHECKED	ALS
JOB NO.	05145
SHEET	C1.0



GENERAL NOTES

- THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL COMPLY WITH IDAHO CODE CHAPTER 22, TITLE 55 REGARDING UNDERGROUND FACILITIES DAMAGE PREVENTION. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF EXISTING UTILITIES BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UTILITIES. CALL DIGLINE, INC., 48 HOURS BEFORE COMMENCING ANY UNDERGROUND WORK, 342-1555.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 2005 EDITION OF THE IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION (ISPC) AND THE ACHD SUPPLEMENTAL SPECIFICATIONS. NO EXCEPTIONS TO DISTRICT POLICY, STANDARDS, AND THE ISPC WILL BE ALLOWED UNLESS SPECIFICALLY AND PREVIOUSLY APPROVED IN WRITING BY ACHD.
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- ALL NON-COMPACTABLE MATERIALS SHALL BE REMOVED PRIOR TO COMPACTION OF SUBGRADE.
- CONTRACTOR SHALL OBTAIN ALL APPLICABLE CONSTRUCTION PERMITS. CONSTRUCTION STAKING BY CONTRACTOR UNLESS OTHERWISE NOTED.
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- PROPOSED AND EXISTING ELEVATIONS ARE BASED UPON INFORMATION OBTAINED FROM THE TOPOGRAPHIC SURVEY.
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- ADA ACCESSIBLE SIDEWALKS SHALL NOT EXCEED 2% CROSS SLOPE OR 5% GRADE. CONTRACTOR SHALL FIELD VERIFY SLOPE PRIOR TO PLACING CONCRETE AND NOTIFY ENGINEER OF ANY DISCREPANCY.
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 - FILE A NOTICE OF INTENT (NOI) WITH EPA'S CONSTRUCTION GENERAL PERMIT (CGP).
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 - INSTALL SIGNAGE PER THE CGP.
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 - FILE A NOTICE OF TERMINATION (NOT) WHEN ON-SITE WORK IS COMPLETE AND PERMANENT EROSION AND SEDIMENTATION CONTROL MEASURES ARE IN PLACE AND FUNCTIONING.
- AN EROSION AND SEDIMENT CONTROL PLAN MUST BE PREPARED, APPROVED AND IMPLEMENTED IN ACCORDANCE WITH THE BOISE CITY EROSION CONTROL ORDINANCE, TITLE 8, CHAPTER 17.

STREET NOTES

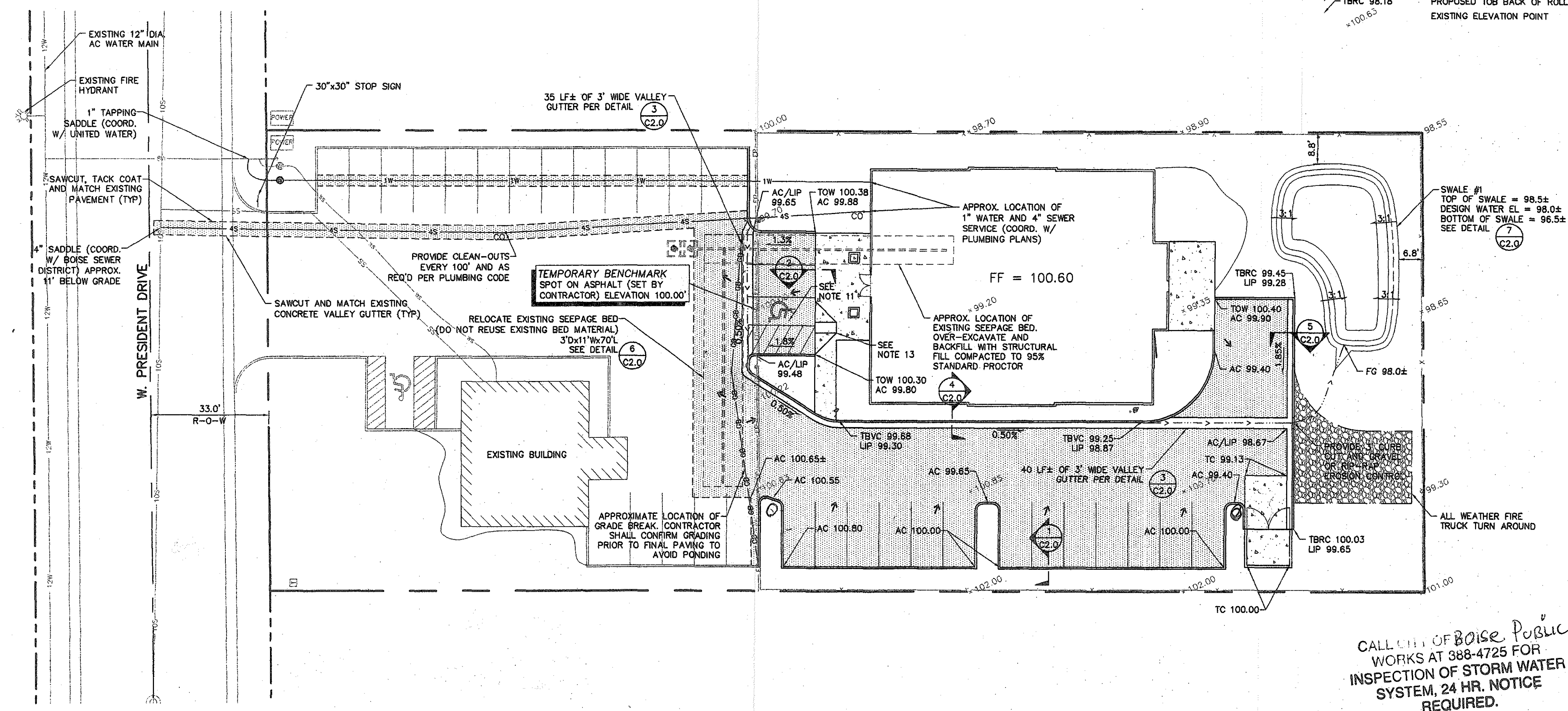
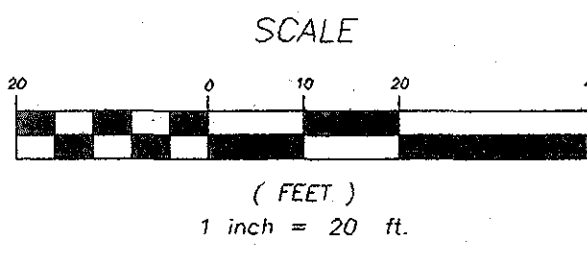
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STORM DRAIN CONSTRUCTION NOTES

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LEGEND

---	SITE BOUNDARY LINE
---	LOT LINE
---	CENTERLINE
---	PROPOSED 4" SEWER SERVICE
---	PROPOSED 1" WATER SERVICE
---	PROPOSED GRADE BREAK
---	PROPOSED FLOWLINE
---	EXISTING 10" SEWER MAIN
---	EXISTING SEWER SERVICE
---	EXISTING FENCE
---	EXISTING 12" AC WATER MAIN
---	EXISTING 8" WATER MAIN
---	EXISTING WATER SERVICE
---	EXISTING FIRE HYDRANT
---	EXISTING SEWER MANHOLE
---	PROPOSED CONCRETE
---	PROPOSED ASPHALT PAVING
---	PROPOSED LIP OF GUTTER ELEVATION
---	PROPOSED TOP OF CONCRETE ELEVATION
---	PROPOSED FINISH FLOOR ELEVATION
---	PROPOSED ASPHALT ELEVATION
---	PROPOSED FINISH GRADE ELEVATION
---	PROPOSED TOB BACK OF VERTICAL CURB
---	PROPOSED TOB BACK OF ROLLED CURB
---	EXISTING ELEVATION POINT

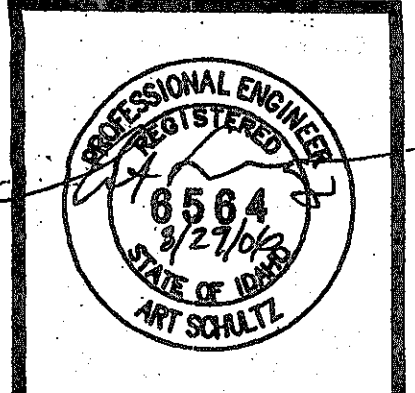


SITE GRADING, DRAINAGE, AND UTILITY PLAN
SCALE: 1"=20'

CALL CITY OF BOISE PUBLIC WORKS AT 388-4725 FOR INSPECTION OF STORM WATER SYSTEM, 24 HR. NOTICE REQUIRED.

APPROVED: 2589
DATE: 6/13/06
ODI NO. 2589
INSPECTION COPY: ☐
FILE COPY: ☐
SITE COPY: ☐

USE THIS SHEET FOR SIGNATURES AND NOTATIONS ONLY - SEE REVISED SHT. C1.0



DATE	08-28-06
REVISIONS	
NO.	0
ADDITIONAL FIRE HYDRANT ADDED	

1010 S. ALANTE PL
SUITE 100
BOISE, IDAHO 83709
(208) 336-8370
FAX (208) 336-8380

BRS ARCHITECTS

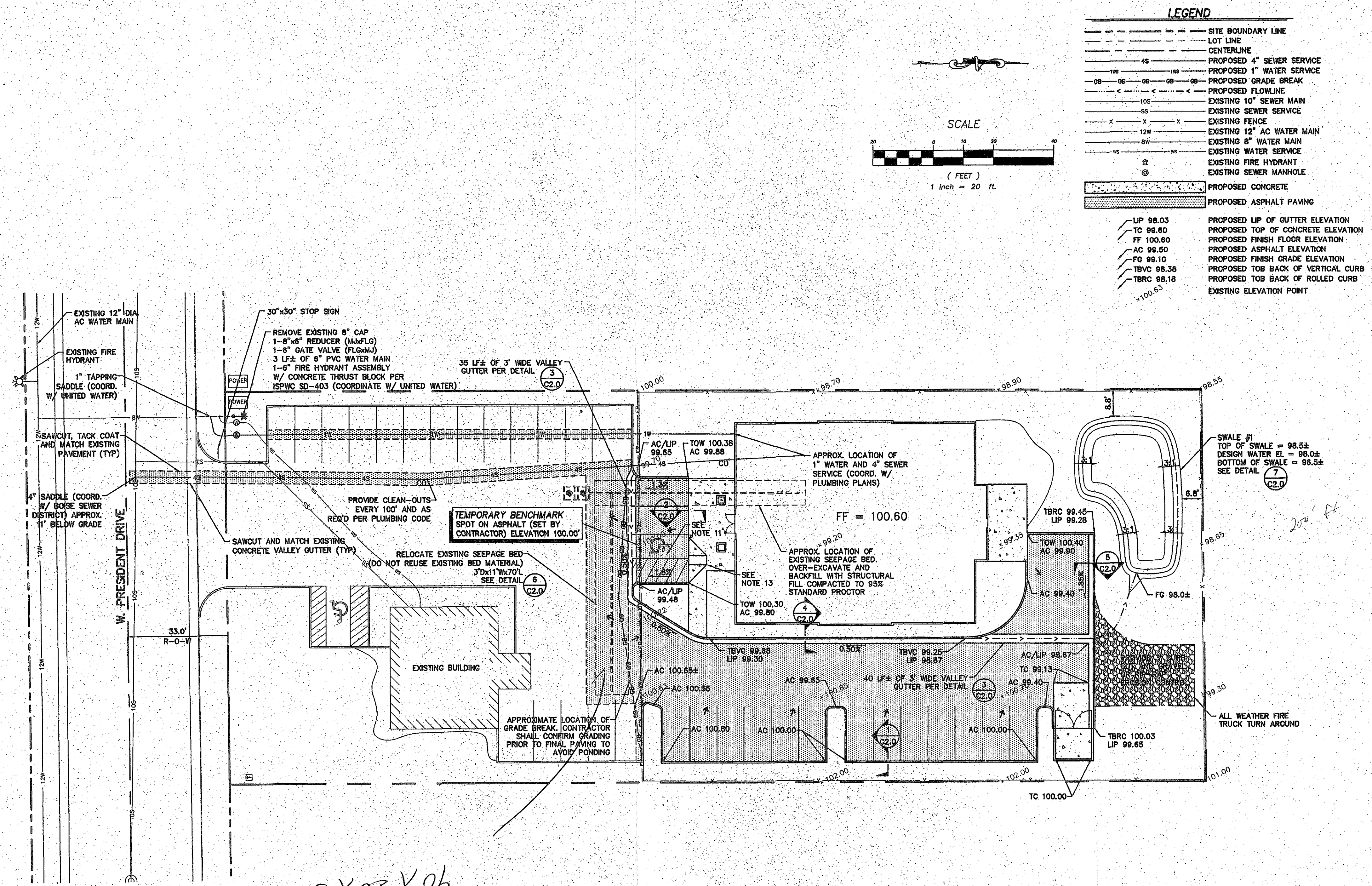
PROPOSED DEVELOPMENT FOR:

RAYCO

PRESIDENT DRIVE

BOISE, IDAHO

DRAWN	DLM
DATE	08/28/2006
CHECKED	ALS
JOB NO.	06145
SHEET	C1.0



SITE GRADING, DRAINAGE, AND UTILITY PLAN
SCALE: 1"=20'

GENERAL NOTES

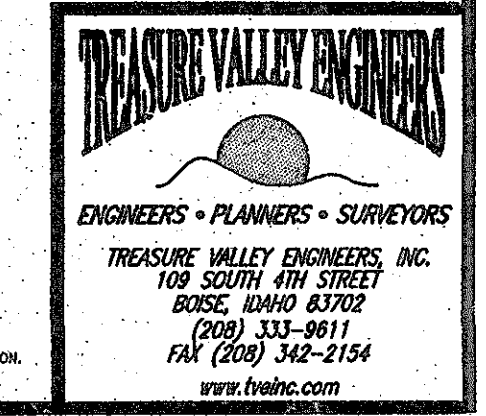
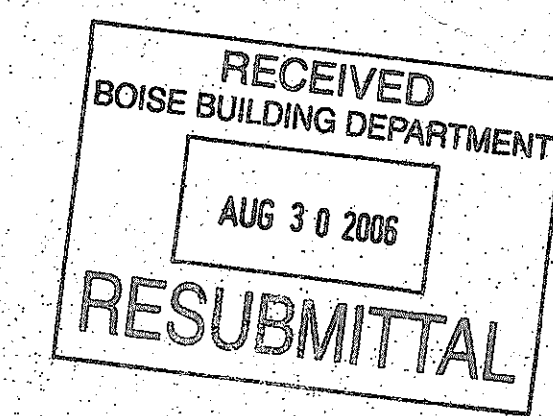
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STREET NOTES

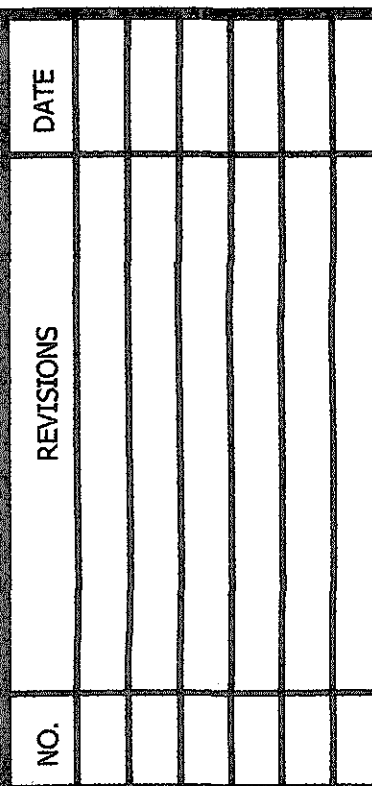
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24' x 24' x 3' 24' x 24' x 3' 24' x 24' x 3'



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ARCHITECTS

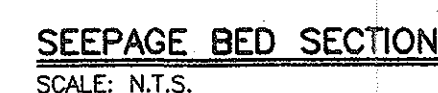
BOISE IDAHO

PROPOSED DEVELOPMENT FOR:

RAYCO

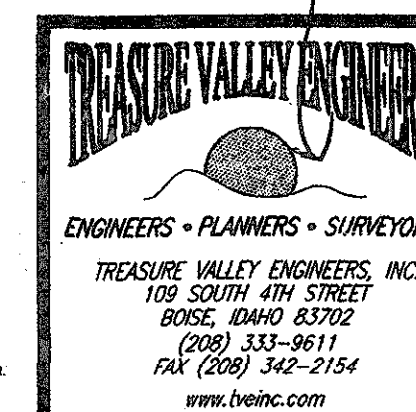
PROSPECTIVE DRIVE

DRAWN	DLM
DATE	06/13/2006
CHECKED	ALS
JOB NO.	06145
SHEET	C2.0

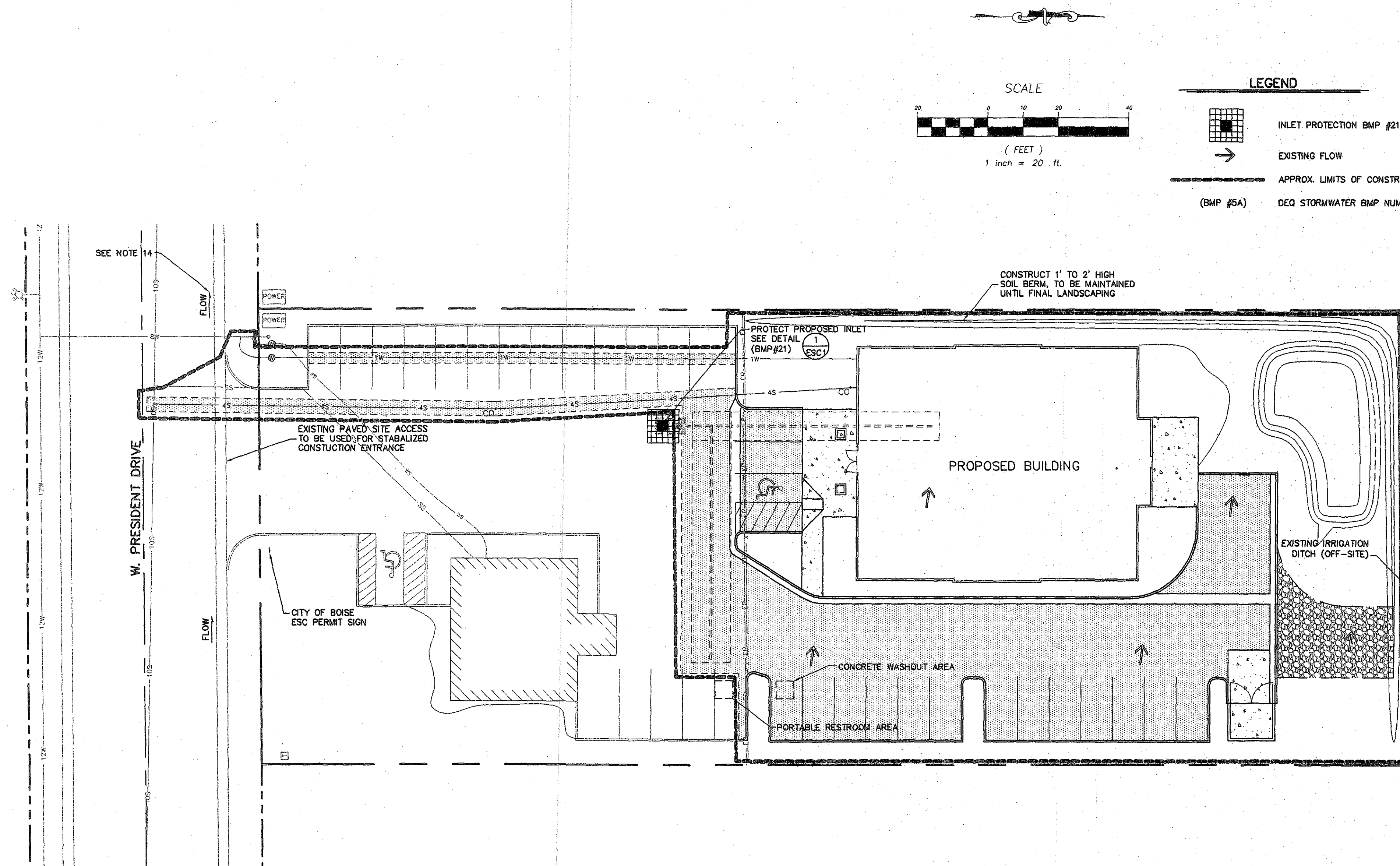


Turn Road

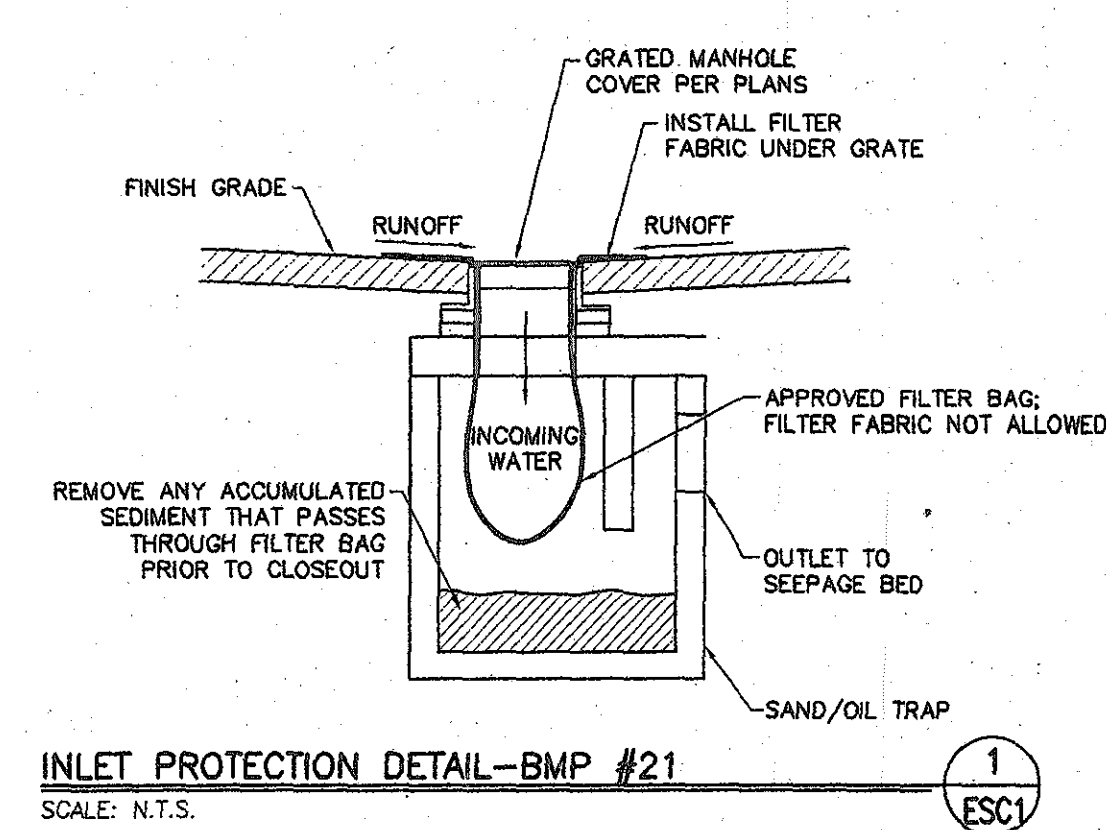
Dennis



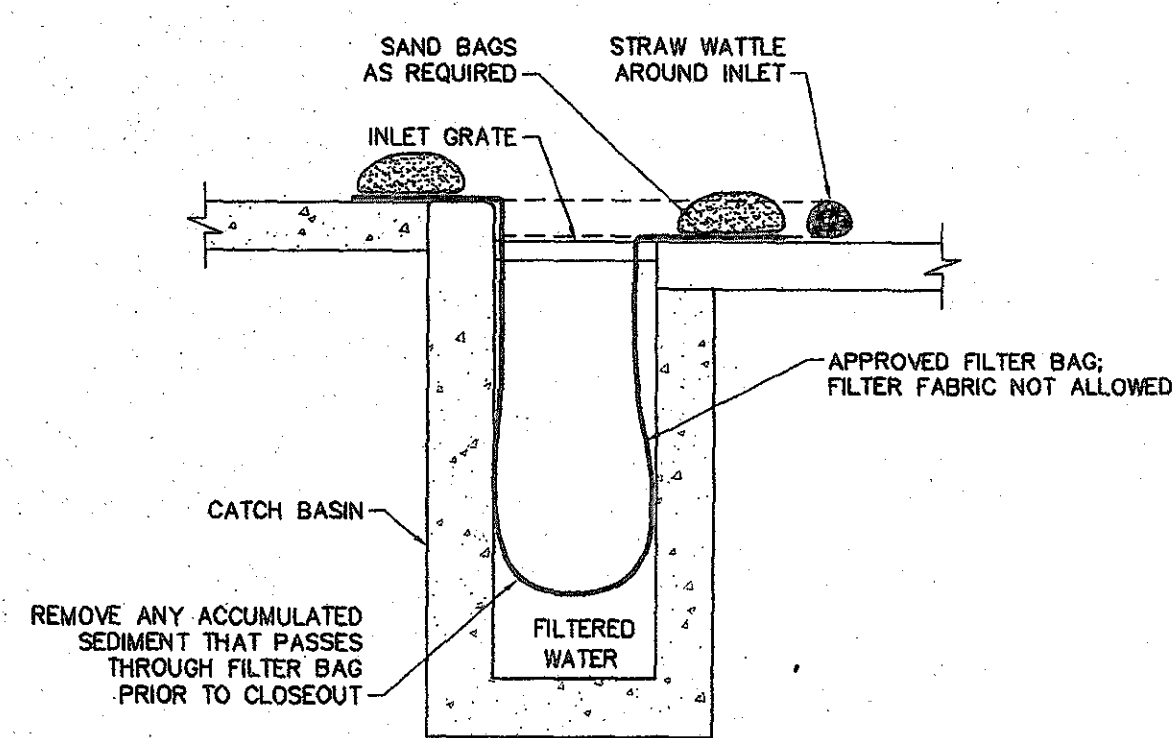
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EROSION AND SEDIMENT CONTROL PLAN
SCALE: 1"=20'



INLET PROTECTION DETAIL-BMP #21
SCALE: N.T.S.



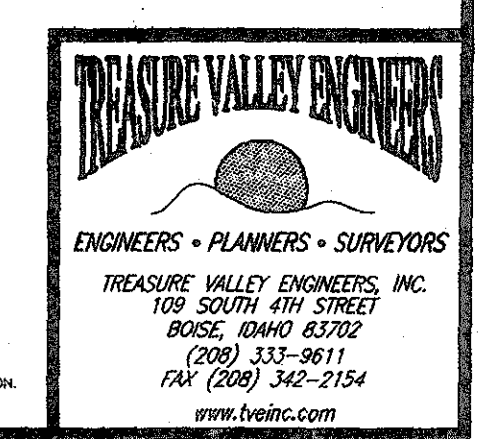
PROTECTION FOR CATCH BASIN-BMP #21
SCALE: N.T.S.

EROSION AND SEDIMENT CONTROL NOTES

- SEE EROSION AND SEDIMENT CONTROL PLAN DOCUMENT PREPARED BY TREASURE VALLEY ENGINEERS FOR ADDITIONAL INFORMATION.
- EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED BEFORE SITE CLEARING AND GRADING BEGINS, UNLESS OTHERWISE SPECIFIED.
- CHECK DETAILS AND PLAN DOCUMENT FOR SPECIFIC BMP/ESC DESCRIPTIONS AND REQUIREMENTS.
- MINIMIZE THE AMOUNT OF BARREN OR DISTURBED SOILS THROUGHOUT THE ENTIRE SITE.
- ROADWAYS, GUTTERS AND SIDEWALKS SHALL BE CLEANED OF ALL TRACKED SEDIMENT FROM THE CONSTRUCTION SITE ON A DAILY BASIS OR AS NEEDED AND PRIOR TO PRECIPITATION EVENTS.
- WASTE AND REFUSE SHALL BE PLACED IN AN ONSITE RECEPTACLE OR REMOVED FROM THE PREMISES DAILY.
- ALL WASTEWATER THAT IS PRODUCED AS A RESULT OF WASHING AND CLEANING CONSTRUCTION MATERIALS (E.G. CONCRETE, PAINT, ADHESIVES) SHALL BE CAPTURED AND RETAINED IN A DESIGNATED WASHOUT AREA. THE WASHOUT AREA MAY CONSIST OF A SHALLOW EXCAVATION THAT IS SUITABLY SIZED FOR THE ANTICIPATED WASTE WATER. RESIDUE THAT ACCUMULATES IN THE WASHOUT AREA SHALL BE REMOVED AND PROPERLY DISPOSED OF UPON COMPLETION OF THE PROJECT. DO NOT DUMP HAZARDOUS MATERIALS IN THE WASHOUT AREA.
- ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED IF DEEMED NECESSARY BY THE GOVERNING AUTHORITY. APPROVED AMENDMENTS SHALL BE ATTACHED TO THE CONTRACTOR'S ON-SITE ESC PLAN.
- ALL CHEMICAL SOURCES SHOULD BE SET BACK FROM THE PUBLIC RIGHT-OF-WAY TO AVOID OFFSITE POLLUTION.
- FINAL SOIL STABILIZATION SHALL CONSIST OF GRASS OR BARK MULCH.
- CONSTRUCTION TRAFFIC SHALL ENTER/EXIT THROUGH THE CONSTRUCTION ACCESS TO MINIMIZE OFF-SITE TRACKING.
- THE CONTRACTOR / RESPONSIBLE PERSON SHALL PROVIDE TEMPORARY SOIL STABILIZATION OF THE DISTURBED AREAS LEFT EXPOSED FOR GREATER THAN 14 DAYS. SOIL STABILIZATION SHALL CONSIST OF EITHER A SPRAY-ON ADHESIVE OR HYDRO SEEDING OF THE DISTURBED AREA. DEWATERING IS NOT ANTICIPATED FOR CONSTRUCTION ACTIVITIES. HOWEVER, IF REQUIRED, WATER FROM DEWATERING SHALL BE RETAINED ON SITE.
- THE CONTRACTOR SHALL LOCATE THE NEAREST DOWNSTREAM CATCH BASIN AND PROVIDE INLET PROTECTION PER DETAIL 2/ESC1.
- ALL OWNERS OR CONTRACTORS INTENDING TO DISTURB ONE ACRE OR MORE OF GROUND AS PART OF CONSTRUCTION ACTIVITIES SHALL DO THE FOLLOWING:
A. FILE A NOTICE OF INTENT (NOI) WITH EPA'S CONSTRUCTION GENERAL PERMIT (CGP) 7 DAYS PRIOR TO BEGINNING CONSTRUCTION.
B. PREPARE A STORM WATER POLLUTION PREVENTION PLAN (SWPPP).
C. INSTALL SIGNAGE PER THE CGP.
D. MAINTAIN ON-SITE COPIES OF THE NOI, CGP, AND SWPPP.
E. COMPLY WITH REQUIREMENTS OF CGP AND SWPPP INCLUDING DOCUMENTING THAT ALL INSPECTIONS AND MONITORING HAVE BEEN PERFORMED.
F. FILE A NOTICE OF TERMINATION (NOT) WHEN ONSITE WORK IS COMPLETE AND PERMANENT EROSION AND SEDIMENTATION CONTROL MEASURES ARE IN PLACE AND FUNCTIONING.

ESC PLAN
APPROVED AS NOTED
BY: *ah* DATE: 8-9-07
BOISE CITY, PDS

Dennis Montgomery 6-13-06
PLAN PREPARED BY
DENNIS MONTGOMERY, E.I.T.
CITY OF BOISE LICENSE NUMBER:
CON03-00790
LICENSE TYPE: PD
EXPIRES: 12/05/2007



DATE	
NO.	REVISIONS

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BOISE, IDAHO 83709
(208) 336-8370
FAX (208) 336-8380

BRS ARCHITECTS

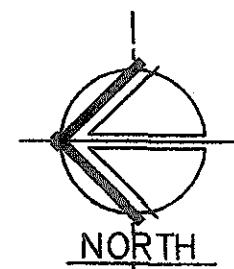
BOISE, IDAHO

RAYCO

PROPOSED DEVELOPMENT FOR:

PRESIDENT DRIVE

DRAWN	DLM
DATE	06/13/2006
CHECKED	ALS
JOB NO.	06145
SHEET	ESC1



1. PLANTING PLAN

SCALE: 1"=20'-0"

2. LANDSCAPE NOTES

GENERAL:

THE LANDSCAPE CONTRACTOR SHALL INCLUDE THE SPRINKLER CONTRACT "SUB TIER" IN THEIR BID. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT THE HEAD LOCATIONS AND GENERAL INSTALLATION OF ALL SPRINKLER PARTS WORK PROPERLY WITH ALL PLANT LOCATIONS.

1. INSTALLATION OF TOPSOIL:

8" OF CLEAN FRIABLE TOPSOIL IS REQUIRED AT ALL LANDSCAPE AREAS. USE EXISTING TOPSOIL AS IS AVAILABLE. ROTOTILL ALL COMPACTED SOIL TO A DEPTH OF 6". IMPORT NEW TOPSOIL ("GARDEN MIX" FROM CLOVERDALE NURSERY OR EQUAL) AS IS REQUIRED TO ENSURE 8" DEPTH THROUGHOUT. IN AREAS WHERE THE EXISTING SOIL IS USED, SPREAD 2" OF COMMERCIAL GRADE COMPOST (MERRILLS, OR EQUAL) THEN ROTOTILL IN THE TOP 6" OF SOIL.

2. GRADING AND DRAINAGE:

FOLLOW GRADING DEFINED BY THE CIVIL ENGINEERING DRAWINGS. IN ALL CASES, ENSURE POSITIVE DRAINAGE AWAY FROM THE BUILDING. ENSURE THAT ALL SOIL IS SETTLED THOROUGHLY, ALLOW FOR NO PUDDLING OR LOW SPOTS (UNLESS SPECIFICALLY DEFINED BY CIVIL SITE GRADING PLAN).

3. PLANT MATERIAL AND PLANTING INSTALLATION:

ALL PLANT MATERIAL MUST MEET REQUIREMENTS OF ANSI Z60.1 "AMERICAN STANDARD FOR NURSERY STOCK". FOLLOW SPECIFIC INSTRUCTIONS IN DETAILS. CONTRACTOR SHALL ADJUST PLANT LOCATIONS AS IS REQUIRED TO EVENLY FILL PLANTERS AND AVOID CONFLICTS WITH EXISTING STRUCTURES. ENSURE AVERAGE MATURE WIDTH OF PLANT WILL REMAIN IN PLANTER WHEN ESTABLISHING LOCATIONS.

4. FINISH TOPSOIL GRADE:

FOLLOWING INSTALLATION OF SPRINKLERS AND PLANT MATERIALS AND BEFORE INSTALLATION OF BARK MULCH, ENSURE THAT ALL SOIL IS SETTLED THOROUGHLY AND ALL FINAL SURFACES ARE RAKED SMOOTH WITH NO UNDULATIONS OR POCKETS FOR WATER ACCUMULATION.

5. INSTALLATION OF BARK MULCH:

A). AT ALL PLANTER BEDS, INSTALL 2" OF CASCADE BLEND COMPOST (AVAILABLE AT CLOVERDALE NURSERY) OR EQUAL, AS FINAL SURFACE MATERIAL.

6. INSTALLATION OF BLUE/RYE SOD LAWN:

AT ALL MANICURED LAWN AREAS PREPARE AND INSTALL A BLUE GRASS - RYE GRASS BLEND SOD. ENSURE THAT FINISH SURFACE IS SMOOTH.

7. INSTALLATION COBBLE ROCK AT DRAINAGE SWALE:

CONFIRM WITH GENERAL CONTRACTOR WHICH SUB-CONTRACTOR IS TO INSTALL THE COBBLE ROCK AT THE BOTTOM OF THE SWALE. LANDSCAPE CONTRACTOR TO INSTALL THE EXTRUDED CONCRETE CURB AROUND THE PERIMETER OF THE COBBLE ROCK BOTTOM.

8. INSTALLATION OF EXTRUDED CONCRETE CURB:

AT EDGE BETWEEN NEW SOD LAWN AND PLANTERS INSTALL THE EXTRUDED CONCRETE CURB.

9. INSTALLATION OF NDS EZ-ROLL "ROLLED" GRASS PAVER:

AT THE AREA INDICATED ON LS-1, INSTALL A MINIMUM OF 6" CLASS II ROAD BASE OF COMPACTED AGGREGATE OR PER LOCAL CODE AND FIRE AUTHORITY'S REQUIREMENTS. INSTALL 1 TO 1 AND 1/2 INCHES OF TOP SOIL THEN ROLL OUT NDS EZ-ROLL GRASS PAVER PER TECHNICAL SPECIFICATION GUIDE, AVAILABLE FROM NDS 851 N. HARVARD AVE. LINDSAY, CALIFORNIA 93247 OR BY CALLING 800-726-1994. ONCE THE NDS EZ ROLL GRASS PAVERS HAVE BEEN INSTALLED FILL ALL CELLS WITH TOPSOIL. BACK RAKE TO ENSURE ALL CELLS ARE COMPLETELY FILLED. WATER THE AREA, ALLOW TO DRAIN AND CHECK FOR ANY SETTLING OF TOPSOIL WITHIN THE CELLS, RE-FILL IF NEEDED. LAY SOD IN A STAGGARD PATTERN OVER GRASS PAVERS. CONTRACTOR IS RESPONSIBLE TO ENSURE NDS EZ-ROLL PAVERS ARE INSTALLED ACCORDING TO MANUFACTURE'S REQUIREMENTS SO THAT THE WARRANTY IS NOT VOIDED AT THE TIME OF INSTALLATION.

10. INITIAL ESTABLISHMENT OF WATERING TIME AND TRANSFER OF WATER MANAGEMENT:

IT IS THE INSTALLING LANDSCAPE CONTRACTORS RESPONSIBILITY TO COORDINATE WITH THE SPRINKLER CONTRACTOR ON INITIAL WATERING TIMES FOR ALL PLANTER AREAS AS SOON AS THEY ARE INSTALLED. CONTRACTOR SHALL MONITOR WATER MANAGEMENT THROUGH MAINTENANCE PERIOD. ESTABLISH AN AGREEMENT WITH THE OWNERS WATER MANAGER AS TO NOTIFICATION TO THE INSTALLING CONTRACTOR OF ANY PLANTS THAT ARE DOING POORLY DURING WARRANTY YEAR, ONCE MAINTENANCE IS TRANSFERRED TO THE OWNERS MAINTENANCE COMPANY, SO PREVENTATIVE ACTION MAY BE TAKEN.

11. PROJECT MAINTENANCE:

MAINTAIN ENTIRE PROJECT THROUGH DATE OF SUBSTANTIAL COMPLETION (COORDINATE THAT DATE WITH GENERAL CONTRACTOR)

MAINTENANCE OBJECTIVES:

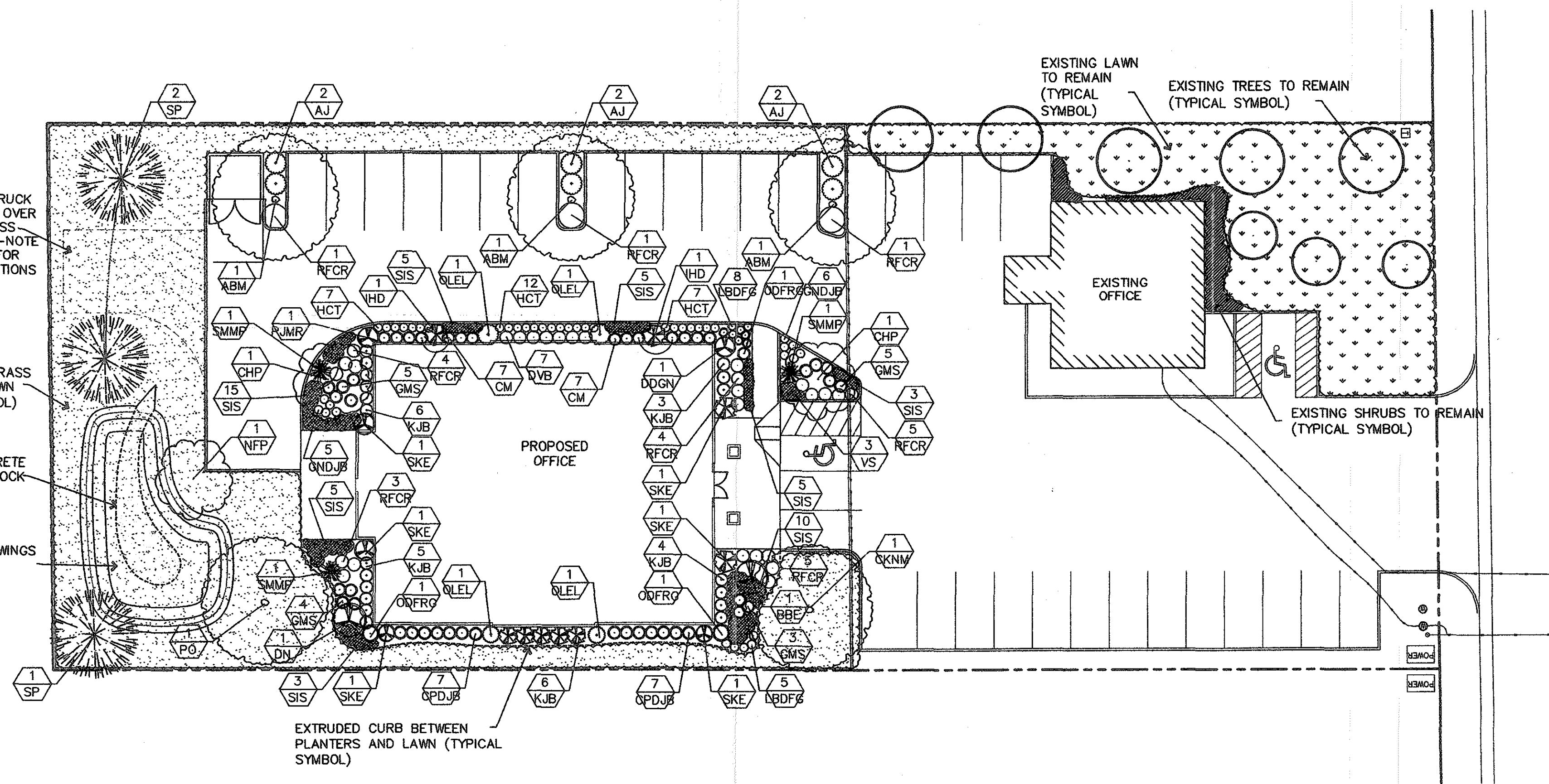
- ENSURE ALL PLANTS ARE BEING WATERED PROPERLY. RESET ANY PLANTS THAT ARE LEANING.
- REMOVE ANY WEEDS AND DEBRIS THAT HAS ACCUMULATED IN ANY OF THE LANDSCAPE AREA.
- MOW LAWN WHEN IT REACHES 3" TALL.

12. TRANSFER OF LANDSCAPE MAINTENANCE TO OWNER:

AFTER SUBSTANTIAL COMPLETION, IT IS THE INSTALLING CONTRACTORS RESPONSIBILITY TO CONTACT THE OWNER OR THEIR REPRESENTATIVE AND TRANSFER THE MAINTENANCE OF THE LANDSCAPE TO THEM. INCLUDE AN ENTIRE EXPLANATION OF WHAT HAS BEEN DONE UP TO THAT TIME AND WHAT NEEDS IMMEDIATE ATTENTION. WALK THROUGH THE ENTIRE PROJECT WITH THE OWNER AND INSPECT FOR ACCEPTABILITY.

13. PLANT MATERIAL WARRANTY:

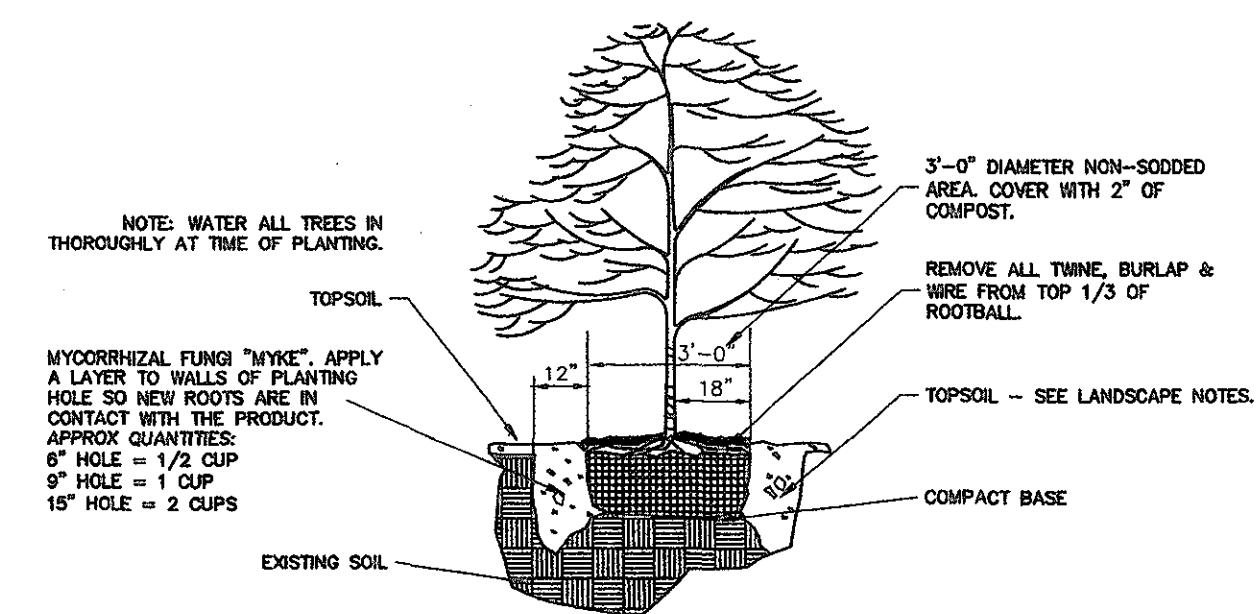
ALL TREES, SHRUBS AND LAWN SHALL HAVE A ONE YEAR WARRANTY FROM THE DATE OF SUBSTANTIAL COMPLETION. ONE REPLACEMENT ONLY FOR ANY TREE, SHRUB OR LAWN AREA THAT DIES.



3. PLANT MATERIAL LEGEND

	SYMBOL	COMMON NAME	BOTANICAL	PLANTING SIZE	MATURE SIZE (HxW)
TREES	ABM	Autumn Blaze Maple	<i>Acer x freemanni</i>	2" cal.	30' x 40'
	CHP	Chanticleer Pear	<i>Pyrus calleryana 'Chanticleer'</i>	2" cal.	40' x 15'
	CKNM	Crimson King Norway Maple	<i>Acer plantanoides 'Crimson King'</i>	2" cal.	40' x 35'
	NFP	Newport Flowering Plum	<i>Prunus cerasifera 'Newport'</i>	2" cal.	20' x 15'
	GP	Scotch Pine	<i>Pinus sylvestris</i>	6'-7'	60' x 30'
	PO	Pan Oak	<i>Quercus palustris</i>	2" cal.	70' x 40'
SHRUBS AND GROUND COVER	AJ	Armstrong Juniper	<i>Juniperus chinensis 'Armstrong'</i>	5 gal.	4' x 4'
	BBE	Black Beauty Elderberry	<i>Sambucus nigra 'Gerda'</i>	5 gal.	8' x 8'
	CPDJB	Crimson Pygmy Dwarf Japanese Barberry	<i>Berberis thunbergii 'Crimson Pygmy'</i>	5 gal.	2'x3'
	CM	Creeping Mahonia	<i>Mahonia repens</i>	2 gal.	18" x 3'
	DDGN	Dwarf Dart's Gold Ninebark	<i>Physocarpus opulifolius 'Dart's Gold'</i>	5 gal.	5' x 5'
	DVB	Dwarf Variegated Boxwood	<i>Buxus 'Variegated 'Nana'</i>	2 gal.	3' x 3'
	GMS	Gold Mound Spraea	<i>Spraea japonica 'Gold Mound'</i>	2 gal.	2' x 3'
	GNDJB	Golden Nugget Dwarf Japanese Barberry	<i>Berberis thunbergii 'Golden Nugget 'Moniers'</i>	5 gal.	12" x 18"
	HCT	Highland Oregon Thyme	<i>thymus Highland cream</i>	4" pot	4" x 1'
	IHD	Ivory Halo Dogwood	<i>Cornus alba 'Bailhala'</i>	5 gal.	4' x 5'
	KJB	Kobold Japanese Barberry	<i>Berberis thunbergii 'Kobold'</i>	5 gal.	2' x 3'
	LBDFG	Little Bunny Dwarf Fountain Grass	<i>Pennisetum alopecuroides 'Little Bunny'</i>	1 gal.	12" x 12"
	ODFRG	Overdam feather reed grass	<i>Calamagrostis x acutiflora 'Overdam'</i>	5 gal.	4' x 2'
	OLEL	Otto Luyken English Laurel	<i>Prunus laurocerasus 'Otto Luyken'</i>	5 gal.	3' x 5'
	PJMR	pjm Rhododendron	<i>Rhododendron 'pjm'</i>	5 gal.	4' x 5'
	RFCR	Red Flower Carpet Rose	<i>Rosa x noae</i>	2 gal.	2' x 3'
	SIS	Snow-in-Summer	<i>Cerastium caryophyllaceae</i>	1 gal.	6" x 18"
	SKE	Silver King Euonymus	<i>Euonymus japonica 'Silver King'</i>	5 gal.	6' x 3'
	SMMP	Slowmound Mucho Pine	<i>Pinus mugo 'slowmound'</i>	5 gal.	3' x 5'
	VS	Variegated Sedum	<i>Sedum Alboroseum Medioanegatum</i>	1 gal.	20" x 20"

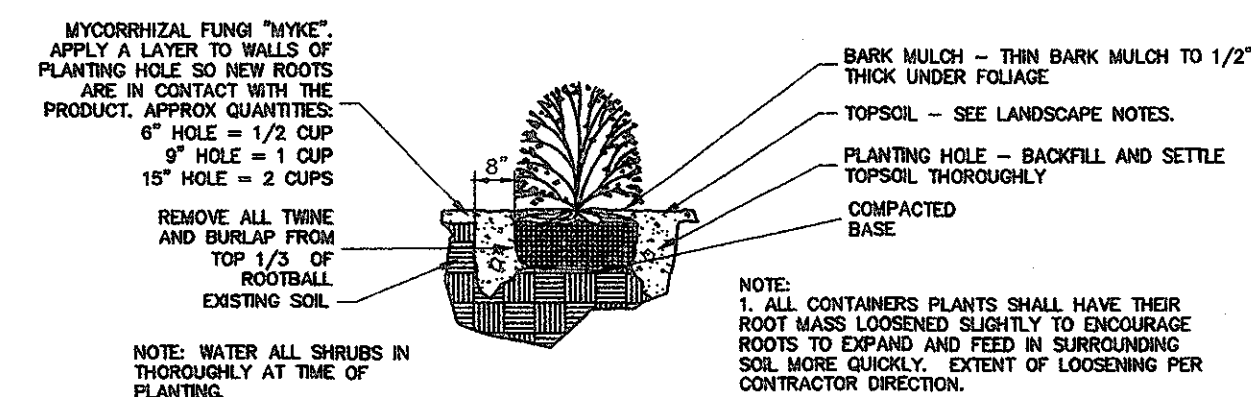
gal. = gallon cal. = caliper



4. DECIDUOUS TREE PLANTING DETAIL

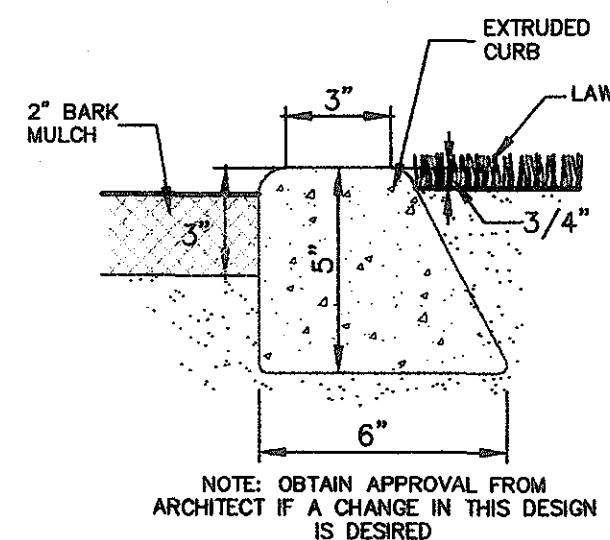
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(SIMILAR FOR EVERGREEN/CONIFERS)



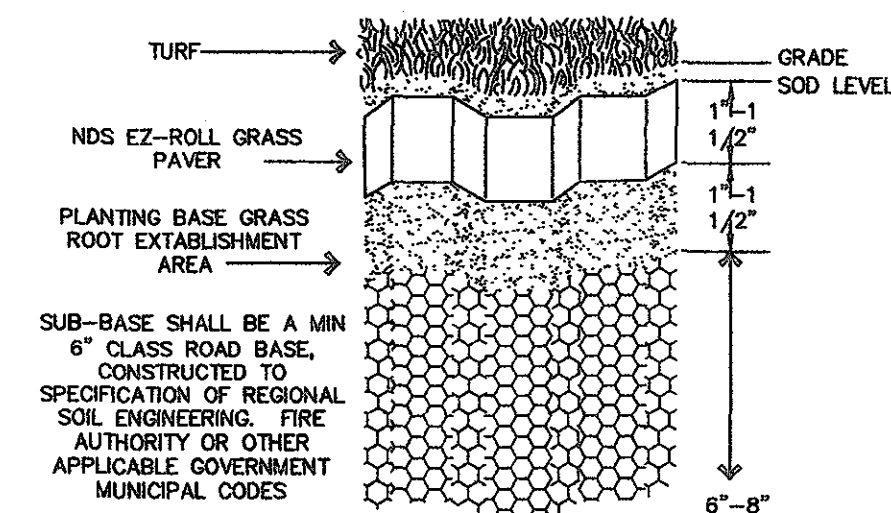
5. SHRUB PLANTING DETAIL

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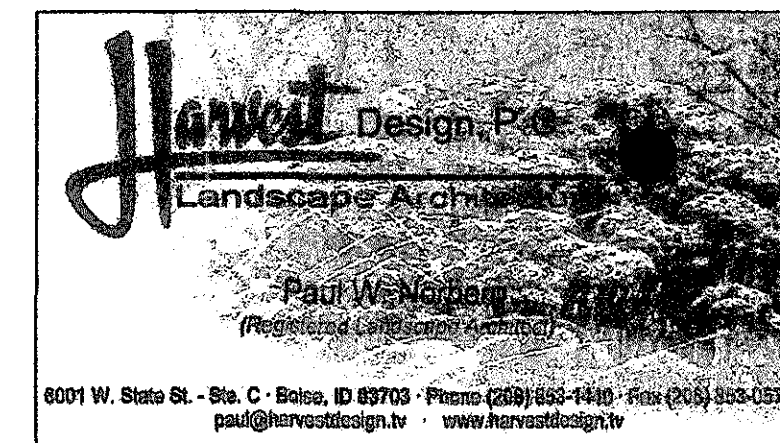
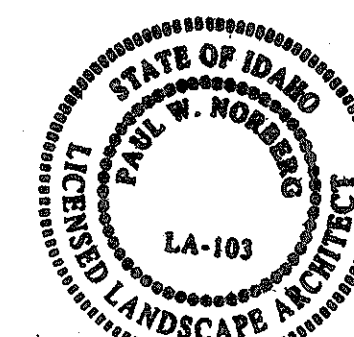
6. EXTRUDED CURB DETAIL

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7. NDS GRASS PAVER DETAIL

NTS



Paul W. Norberg
June 19, 2006

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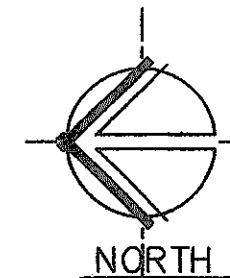
NO.	REVISIONS	DATE

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PROPOSED DEVELOPMENT FOR:
RAYCO
PRESIDENT DRIVE
BOISE, IDAHO

DRAWN	MRF
DATE	05/05/06
CHECKED	PWN
JOB NO.	05259
SHEET	LS-1



1. IRRIGATION PLAN

SCALE: 1"=20'-0"

2. SYMBOL LEGEND

- POINTS OF CONNECTION TO EXISTING PRESSURE IRRIGATION SYSTEM
- AUTOMATIC SPRINKLER CONTROLLER LOCATION
"IRRITROL" TOTAL CONTROL SERIES - SIZE AS REQUIRED (COORDINATE WITH ELECTRICAL PLAN)
- HOSE BIB (RE: L2.0, #5)
- AUTOMATIC CIRCUIT VALVE LOCATIONS (RAINBIRD, PEB SERIES)
- MAINLINE CLASS 200 PVC (2" THROUGHOUT)
- LATERAL LINES POLYETHYLENE INTERSTATE 3408, OR CLASS 200 PVC, AT CONTRACTORS OPTION.
- 1/4, 1/2, 3/4, FULL "RAINBIRD" MPR NOZZLES AND PRESSURE COMPENSATING SCREENS. "RAINBIRD" 1806 SERIES POP-UP SPRAY HEADS
- "RAINBIRD" 5000 SERIES ROTOR POP-UP SPRINKLERS - LOW ANGLE NOZZLE PERFORMANCE
- IRRITROL #533 FLOOD BUBBLER NOZZLE. ADJUST FLOW RATE ACCORDING TO PSI.
- SHUT-OFF VALVE, 2" FEBCO MODEL 622F FULL PORT BALL VALVE

4. SPRINKLER VALVE LEGEND

VALVE INFORMATION					
VALVE NUMBER	LOCATION	APPROX O. OF HEADS	NOZZLE SERIES	APPROX. GPM	VALVE SIZE
1	LAWN	9	6" POP-UP SPRAY HEADS	13	1"
2	LAWN	27	6" POP-UP SPRAY HEADS	15	1"
3	LAWN	9	5000 SERIES ROTORS	15	1"
4	LAWN	14	6" POP-UP SPRAY HEADS	27	1"
5	LAWN	14	6" POP-UP SPRAY HEADS	27	1"
6	LAWN	42	6" POP-UP SPRAY HEADS	21	1"
7	PLANTER	15	BUBBLERS	30	1"
8	PLANTER	21	BUBBLERS	42	1.5"
9	PLANTER	20	BUBBLERS	40	1.5"
10	PLANTER	18	BUBBLERS	36	1.5"
11	PLANTER	26	BUBBLERS	52	1.5"
12	PLANTER	25	BUBBLERS	50	1.5"

3. SPRINKLER NOTES

1. GENERAL NOTES

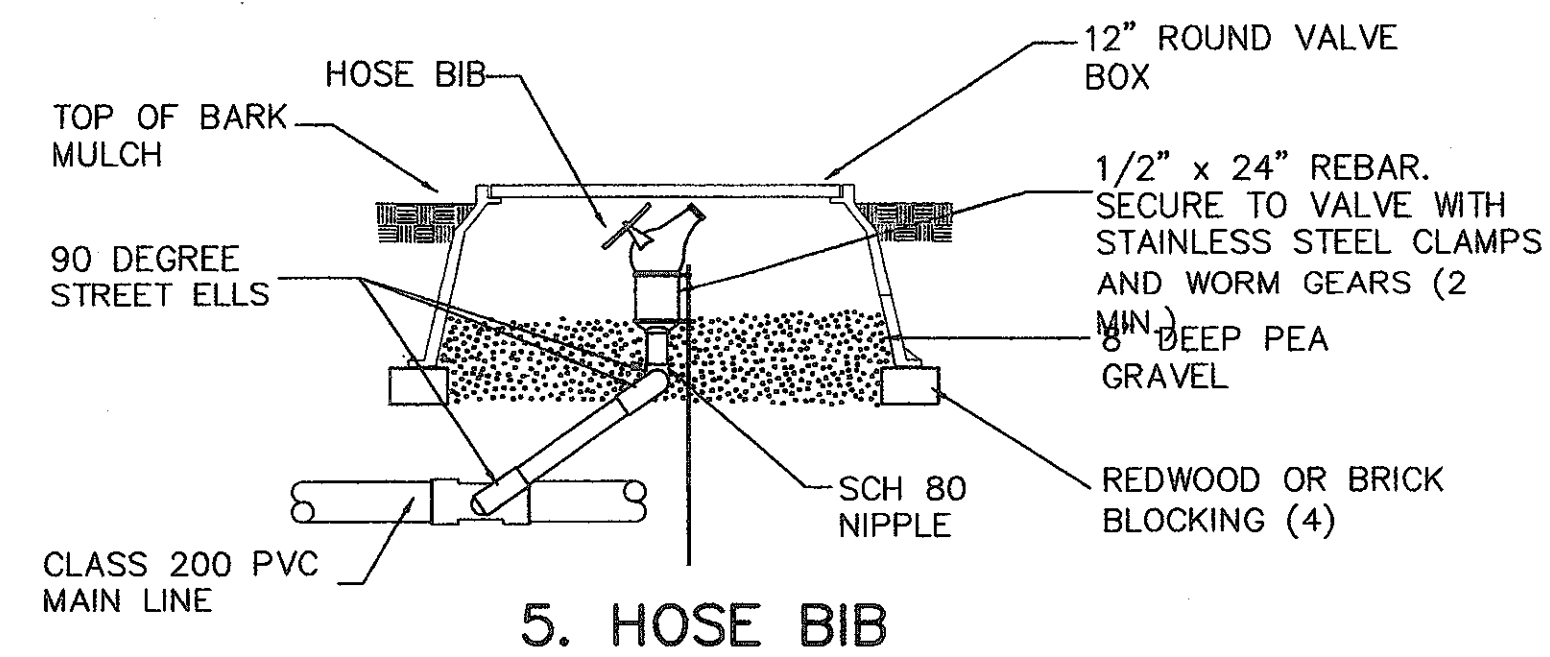
- A. THE LANDSCAPE SPRINKLER SYSTEM IS "BIDDER DESIGN" IN ASSOCIATION WITH CRITERIA DEFINED IN THESE NOTES AND DRAWINGS.
- B. THE FOLLOWING INFORMATION HAS BEEN PROVIDED:
- 1.) POINT OF CONNECTION TO THE WATER SOURCE
- 2.) AUTOMATIC CONTROLLER LOCATION
- 3.) HEAD LOCATIONS - INSTALL NO FEWER THAN QUANTITY SHOWN. CONTRACTOR SHALL INCLUDE ANY ADDITIONAL HEADS HE/SHE FEEL ARE NEEDED FOR PROPER COVERAGE IN THE BASE BID. THE CONTRACTOR IS RESPONSIBLE FOR SIZING ALL PIPING.
- 4.) SLEEVE LOCATIONS (ADD ADDITIONAL IF REQUIRED)
- 5.) CONTRACTOR SHALL NOTE ANY FACTORS THAT WILL AFFECT BID PRICE BEFORE DOING ANY WORK WHERE A PRICE CHANGE WOULD BE REQUIRED.

2. DESIGN FACTORS:

- A. THE WATER SOURCE IS LOCATED AT THE FRONT OF THE EXISTING SITE, CONNECT TO THE EXISTING MAINLINE. CONTRACTOR IS RESPONSIBLE FOR INVESTIGATING THE GPM AND PSI AT CONNECTION LOCATION.
- B. INCLUDE PROPER DRAINAGE OF MAINLINE AND LATERALS.
- C. PROVIDE ONE GATE VALVE WHICH TURNS THE SYSTEM ON/OFF.
- D. MAINLINE DEPTH: 18" (ALLOW FOR NO ROCKS NEXT TO MAINLINE) LATERAL DEPTH: 8"
- E. PROVIDE ISOLATION VALVES AT ALL BRANCHES IN MAINLINE.
- F. DO NOT EXCEED 6.0 PSI LOSS THROUGH ANY CIRCUIT CONTROL VALVE.
- G. DO NOT EXCEED 5.0 FEET PER SECOND FLOW IN ANY MAIN OR CIRCUIT LINE.
- H. USE COMMERCIAL GRADE 14 GAUGE U.F. WIRE FROM THE CONTROLLER TO THE CIRCUIT VALVES.
- I. INSTALL ALL VALVES IN VALVE BOXES WITH LIDS. ACCEPTABLE MANUFACTURER: BROOKS.
- J. PROVIDE SLEEVES UNDER ALL CURBS, SIDEWALKS AND PAVED SURFACES. PLACE MAINLINE, LATERALS, AND WIRING IN SLEEVES AS APPROPRIATE. ALLOW 2" OF FREE SPACE - MAKING FOR EASE OF REMOVAL OF LINES.
- K. HYDROSTATIC TEST: TEST MAINLINE AND VALVES. THEY SHALL HOLD 100 PSI FOR 10 MINUTES WITH A MAXIMUM LOSS OF 5 PSI. REPAIR ANY PIPE OR VALVE WHICH DOES NOT COMPLY.
- L. FLUSH ALL LINES BEFORE APPLICATION OF NOZZLES.
- M. CONNECT ALL HEADS TO LATERAL LINES USING FLEX TUBING AND SPIRAL BARB FITTINGS.
- N. OBTAIN ALL NECESSARY PERMITS. COMPLY WITH PERTINENT UNIFORM PLUMBING CODE REQUIREMENTS.
- O. COORDINATE WITH ALL OTHER TRADES.
- P. PROVIDE OWNER WITH AN AS-BUILT DRAWING SHOWING ACTUAL LOCATIONS OF:
- P.O.C
 - AUTOMATIC CONTROLLER
 - MAINLINE ROUTING (DIMENSIONS AND SLEEVES AT HARD SURFACE CROSSINGS)
 - VALVE BANKS
 - LATERAL ROUTING (INDICATE WHICH VALVE RELATES TO WHICH CIRCUIT)
 - HEAD LOCATIONS
 - HOSE BIBS (HOSE CONNECTION POINTS FOR OWNER TO HAND WATER THE LANDSCAPE)
3. BIDDER DESIGN AND PRICING RESPONSIBILITIES:
- A. DYNAMIC WATER AVAILABILITY: CONFIRM AVAILABLE PSI AND GPM.
- PSI = POUNDS PER SQUARE INCH
GPM = GALLONS PER MINUTE
- B. IN ALL INSTANCES, SPRAY (NOT INFLUENCED BY WIND) IS TO FALL WITHIN THE LANDSCAPE BOUNDARIES. DO NOT THROW WATER ON BUILDINGS, WALKS OR DRIVES. IT IS UNDERSTOOD THAT MINOR OVER SPRAY WILL OCCUR. MINIMIZE AS MUCH AS POSSIBLE.
- C. WINTERIZE THE SYSTEM THE FIRST YEAR FOLLOWING INSTALLATION AT NO ADDITIONAL COST.
- D. CONTRACTOR SHALL INCLUDE ALL INCIDENTAL PARTS, NOT SPECIFICALLY DEFINED AS ARE REQUIRED TO INSTALL A PROPERLY OPERATING SPRINKLER SYSTEM AS PART OF BASE BID.

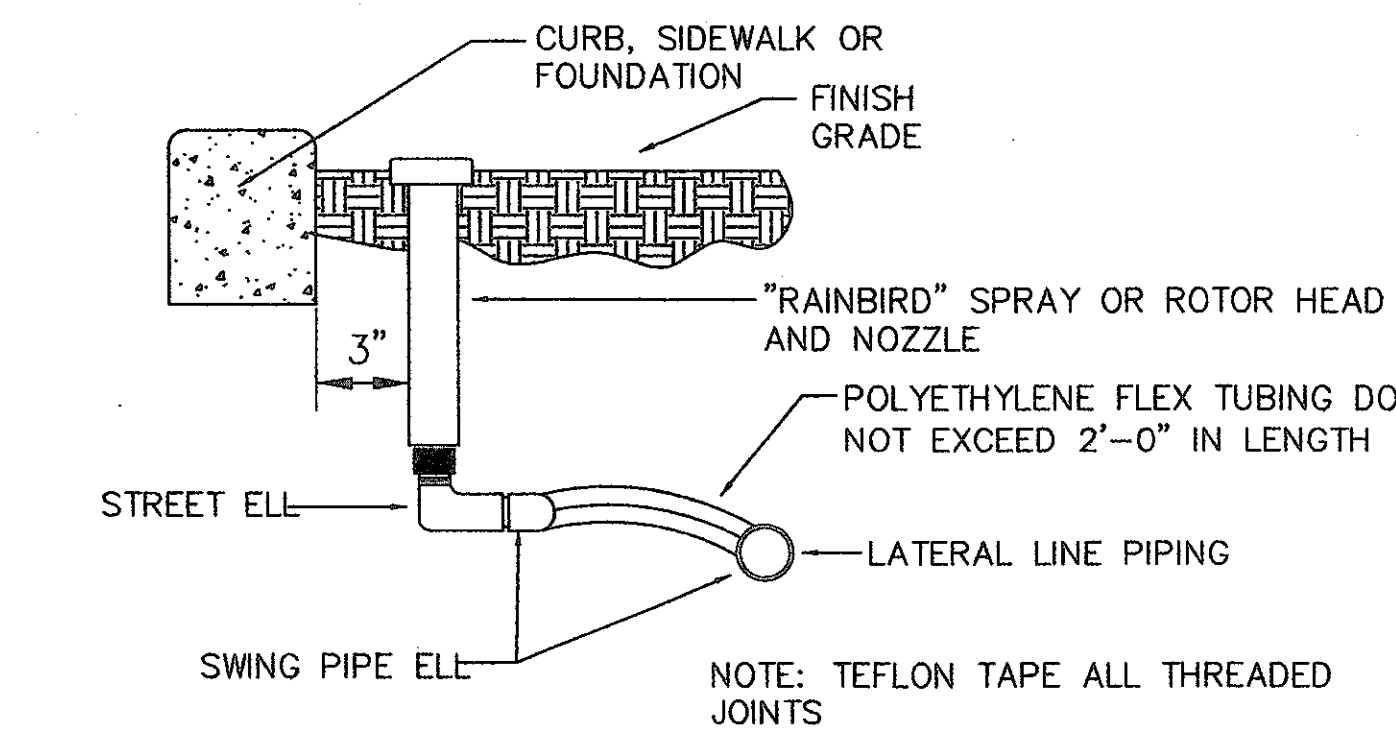
4. SYSTEM WARRANTIES:

WARRANTY ENTIRE SYSTEM FOR ONE YEAR FROM DATE OF SUBSTANTIAL COMPLETION. PARTS AND LABOR.



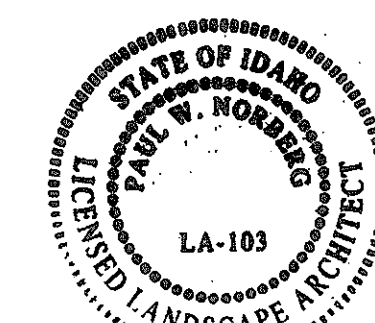
6. FLOOD BUBBLER DETAIL

NTS

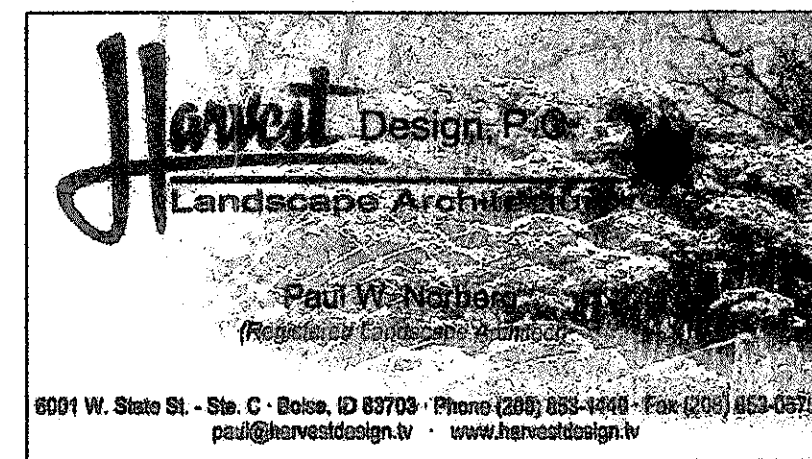


7. POP-UP SPRAY HEAD (ROTOR HEAD SIMILAR) DETAIL

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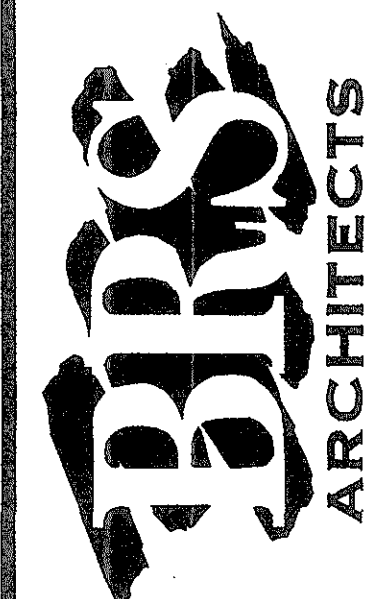
Paul W. Harbo
June 14, 2006



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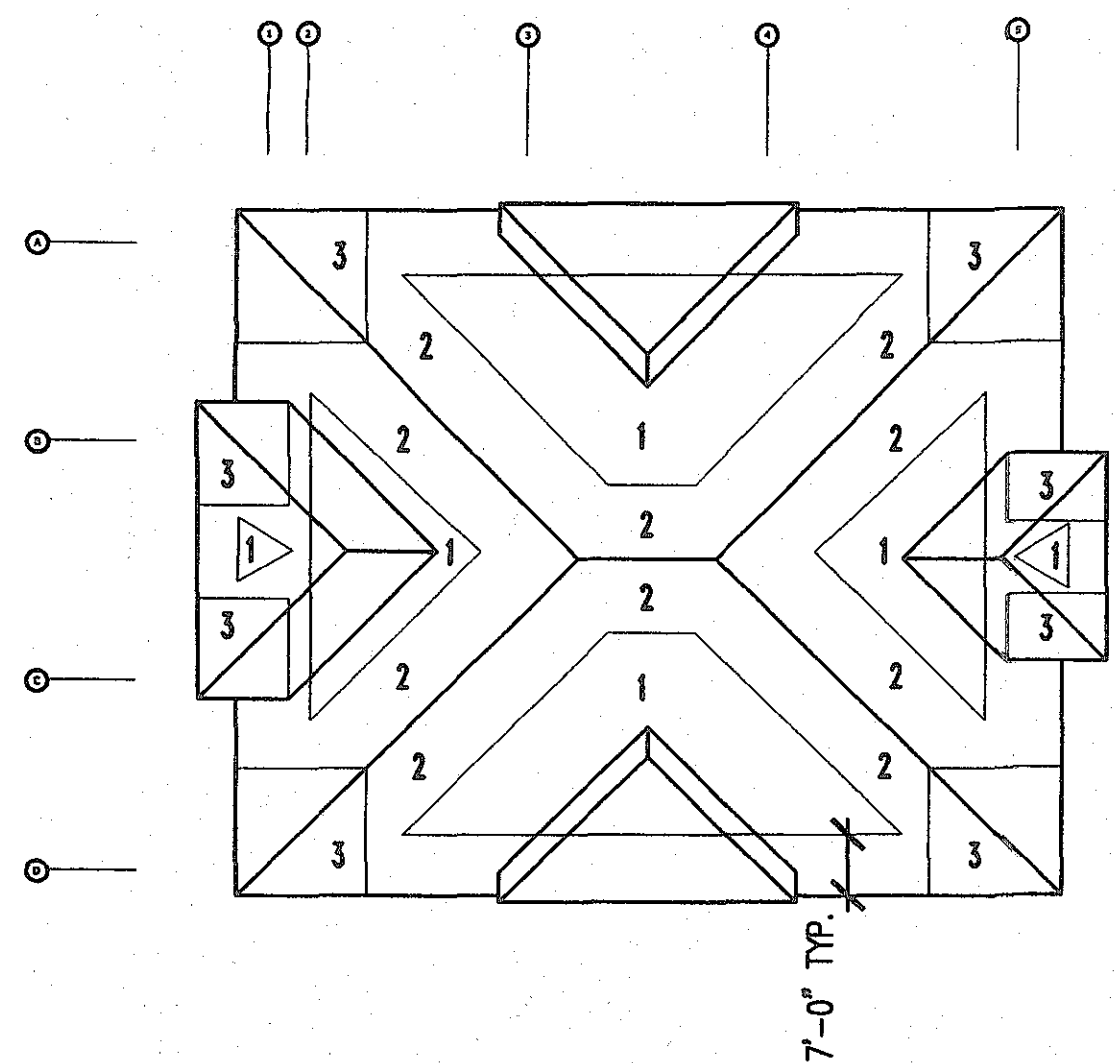
NO.	REVISIONS	DATE
1		
2		
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SUITE 100
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(208) 336-8370
FAX (208) 336-8330



PROPOSED DEVELOPMENT FOR:
RAYCO
PRESIDENT DRIVE
BOISE, IDAHO

DRAWN	MRF
DATE	05-05-06
CHECKED	PWN
JOB NO.	05075C
SHEET	LS-2



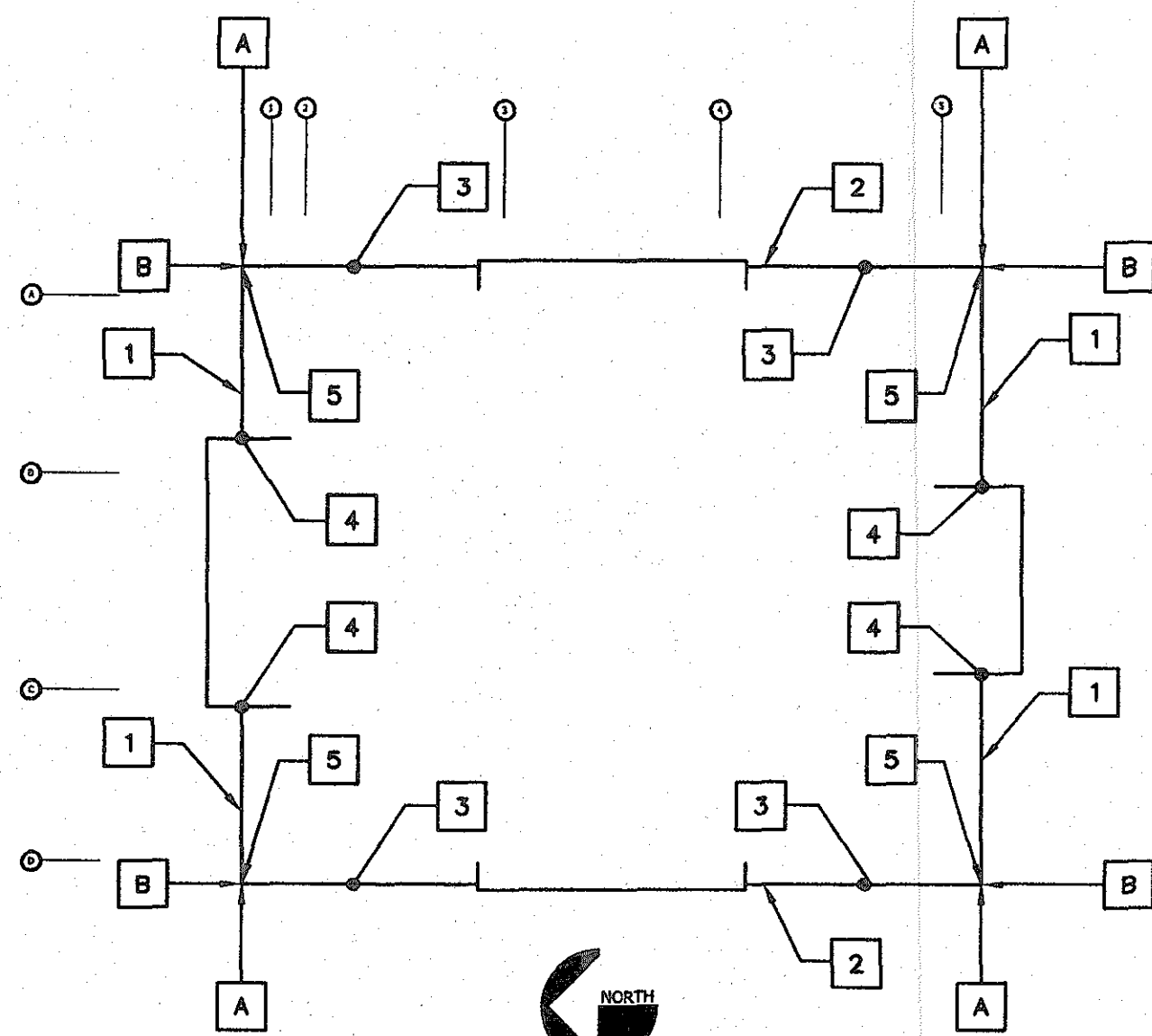
WIND UPLIFT SCHEDULE		
ZONE	UPLIFT	AT OVER HANGES
1	5 PSF	NA
2	15 PSF	20 PSF
3	26 PSF	38 PSF

NOTE:

- DESIGN ROOF TRUSSES FOR NET WIND UPLIFT NOTED. ZONES ARE TO BE BASED ON IBC FIGURE 1609.6 (2).
- TRUSS SUPPLIER TO DESIGN BRIDGING/ BRACING AS REQUIRED.

1 NET WIND UPLIFT

SCALE: NTS



ROOF DEAD LOAD AND LIVE LOAD TO WALLS:

- W D.L. = 375#/TRUSS
W L.L. = 470#/TRUSS
- W D.L. = 1430#/TRUSS
W L.L. = 1800#/TRUSS
- W D.L. = 5720#/TRUSS
W L.L. = 7150#/TRUSS
- W D.L. = 2000#/TRUSS
W L.L. = 2500#/TRUSS
- W D.L. = 740#/TRUSS
W L.L. = 930#/TRUSS

2 LOAD DIAGRAM FOR WALL SYSTEM

SCALE: NTS

WALL SHEAR:

- NORTH & SOUTH WALLS= 9450 LBS
- EAST & WEST WALLS= 7370 LBS

NOTE:

- WALL SYSTEM DESIGNED BY "KORETECK".
- WALLS TO BE DESIGNED BY MFR. FOR VERTICAL AND LATERAL LOADS INDICATED. ALSO, DESIGN FOR 2003 IBC WIND 90 MPH, EXP. B.
- LOADS [1] AND [2] ARE ESTIMATED REACTIONS PER TRUSS AND MAY BE DIVIDED BY 2'-0" TO OBTAIN LOADS PER FOOT OF WALL.
- LOADS [3], [4] AND [5] ARE GIRDER TRUSS REACTIONS. WALL MUST BE DESIGNED TO RESIST POINT LOADS AT GIRDERS.
- WALL SHEARS [6] AND [7] ARE TO BE USED BY MFR. TO DESIGN SHEAR WALLS AND HOLDOWNS.
- CONTRACTOR AND WALL MFR. TO VERIFY TRUSS LAYOUT AND LOADS SHOWN WITH TRUSS SUPPLIERS SHOP DRAWINGS.

STRUCTURAL NOTES

GENERAL:

- Specifications: For more complete information see specifications. Where conflicts between these notes and specifications occur, the more stringent of these shall take precedence.
- Dimensions: The structural drawings shall be considered as a part of the complete set of Contract drawings, including the drawings of all disciplines. It is intended that the Structural drawings will provide sufficient dimensions to locate the primary structural elements and members. Location of secondary members which are affected by systems detailed by others may require reference to the drawings of other disciplines and layout and coordination by the contractor. If direct conflict between dimensions of two or more disciplines is encountered, such conflicts shall be resolved by the Architect. Do not use scaled dimensions. Use written dimensions or where dimensions are not provided, consult the architect for clarifications before proceeding with the work in question.
- Typical and Similar Conditions: All concrete is reinforced, and all steel members are connected to immediately adjacent members shown on the plans unless specifically noted otherwise. Where specific details are not called out, typical details or details shown for similar conditions shall apply, subject to the structural engineers approval.
- Special Conditions: Refer to Architectural, Mechanical, Plumbing, and Electrical drawings for location and size of blockouts, inserts, openings, curbs, housekeeping pads, depressions and slopes not shown on the Structural drawings.
- Omissions or conflicts between various elements of the drawings, specifications, notes, and details shall be brought to the attention of the structural engineer and resolved before proceeding with the work.
- The contractor must submit in writing any requests for modifications to the plans and specifications. Shop drawings submitted to the structural engineer for review do not constitute "in writing" unless it is clearly noted that specific changes are being requested.
- Deferred Submittals: Where Structural components are fully or partially designed and detailed by the supplier or fabricator, complete shop drawings and calculations, signed and sealed by a professional engineer registered in the state where the project is located, shall be submitted to the structural engineer for review. In addition, a copy of these documents shall be submitted to the Building Official for approval in accordance with IBC Section 106.3.4.2. Deferred submittals to include:
 - Metal plated roof trusses.
 - Wall panel system.
- Loads from construction materials shall be spread out if placed on framed floors or roofs. Construction loads shall not exceed the design live load per square foot listed in the Design Criteria. Contractor shall provide adequate shoring and or bracing where structure has not attained design strength.
- The Contract drawings and specifications represent the finished structure. They do not indicate the method of construction. The contractor shall provide all measures necessary to protect the structure during construction. Such measures shall include but not be limited to bracing and shoring for loads due to construction equipment and materials.

DESIGN CRITERIA:

- Used 2003 International Building Code.
- Design Loads:
 - Roof: D.L. = 20#/SF, L.L. = 25 #/SF. (snow).
 - Floor: D.L. = 15 #/SF, L.L. = 80 #/SF (Office), Partition = 20 #/SF.
- Wind load = 90 MPH, exposure B, $I_w = 1.0$.
- Seismic: Equivalent Static Force Design Procedure.
 - Seismic Design Category C, Site Class D.
 - $S_a = 0.330$ $S_d = 0.339$
 - $S_1 = 0.101$ $S_d1 = 0.161$
 - $R = 6.5$ - Light frame walls with steel sheet shear walls.
 - $I_e = 1.0$.

QUALITY ASSURANCE:

- The owner shall employ qualified special inspectors to perform inspections in accordance with Chapter 17 of the 2003 International Building Code. Qualifications for special inspectors shall include current ICC Certification for the discipline indicated and a minimum of one (1) year experience. Refer to project specifications for detailed requirements pertaining to testing and inspection. Inspection reports shall be furnished to the structural engineer of record in a timely manner. Observations made by the structural engineer of record during routine site visits will not constitute special inspection. The items requiring special inspection for this project include the following:
 - Cast in Place Concrete:
 - Verify use of approved mix design.
 - Shop Welding: All work is to be done by an "Approved Fabricator." Refer to the specifications for specific inspection requirements.
 - Field Welding:
 - Verify welder Visual Certification:
 - Welding of connections for "Special Moment- Resisting Frames".
 - Any weld other than a single pass fillet weld less than 5/16" in size.
 - Refer to 2003 IBC section 1704 for non-destructive testing requirements.
 - Periodic Visual Inspection: In addition to periodic visual inspection, provide inspection of all completed welds for the following:
 - Fillet welds less than 5/16" in size, metal decking, steel studs, cold formed steel framing and stairs and railing systems.
 - Chemical Anchors: All epoxy, resin or similar anchors shall have Current ICC, or equivalent reports, providing information relating to installation, embedment, edge and other clearance requirements.
 - Verify field installation is in conformance with manufacturers requirements.

FOUNDATIONS:

- Maximum foundation soil bearing pressure used = 1500#/SF.
- Backfill shall be compacted to 95% of maximum dry density in accordance with ASTM D 1557.

MATERIALS:

CONCRETE:

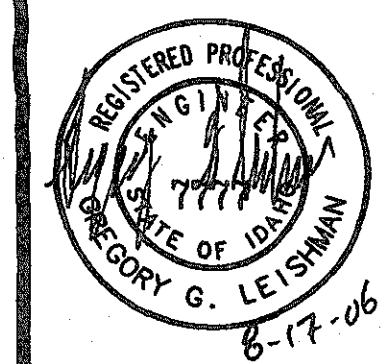
- Mix design shall be established in accordance to Chapter 5 of ACI 318.
- Minimum cement content = 517 #/CY.
- Entrained air = $\pm 5\%$ ($\pm 1\frac{1}{2}\%$) for all concrete exposed to freezing (fdn. walls, ext. slabs, etc.).
- Maximum slump = 4".
- Special inspection not required per IBC 1704.4, exception 2 (design 28 day $f'_m = 2500$ psi). Provide concrete with 28 day $f'_c = 3500$ psi for durability.
- Concrete reinforcement ASTM A615, grade 60.
- Minimum rebar lap = 40 bar diameters.
- Minimum concrete cover over reinforcement:
 - Concrete cast against earth. 3"
 - Concrete exposed to earth or weather . . . 1 1/2"
 - Concrete not exposed to earth or weather . . 3/4"
- Beams and columns. 1 1/2"

LUMBER:

- Sawn lumber for studs, joists, etc.(2x6 or larger) = No.2 Doug Fir larch.
- Roof sheathing = 15/32", minimum, APA rated, panel Ident. 32/16.
- Roof nailing = 8d(131" dia. Shank x 2 1/2" long) 8d, at 6" o.c. all supported edges, 12" o.c. in field.
- All nails are to be common nails unless noted otherwise.
- For connections of "SIMPSON" hardware or equivalent follow manufacturers recommendations.
- Brick or rock veneer to be anchored to walls with 22 ga. x 1" nominal anchors at 1'-4" o.c., both vertical and horizontal.
- Premanufactured Trusses
 - Truss Loading:
 - Top Chord D.L. = 12 PSF.
 - Bottom Chord D.L. = 8 PSF.
 - Top Chord L.L. = 25 PSF. (snow).
 - Bottom Chord L.L. = 10 PSF. Does not act concurrently with top chord L.L.
 - Member Properties:
 - Chords shall be #2 Douglas Fir or better.
 - Webs shall have minimum Modulus of Elasticity of 1,500,000 psi.
 - All truss blocking shall be provided by the truss manufacturer and constructed with approved plates.
 - Truss Manufacturer shall verify all truss dimensions, accounting for tolerances, connections, and splice requirements.
 - Truss profiles shown are representations of possible configurations of Web locations and member sizes. Truss manufacturer shall submit shop drawings for approval. All trusses shall be designed by a registered professional engineer and all shop drawings shall be stamped and signed by a registered professional engineer.
 - Truss manufacturer shall provide proof of approved third party I inspection as required by IBC chapter 2321.3.
 - Truss manufacturer shall design all truss to truss connections and shall indicate said connections on the shop drawings.
 - Each truss shall be marked with the following information:
 - Manufacturers Identify.
 - Design Load.
 - Truss spacing.
- All lumber in contact with concrete, masonry, or ground shall be preservative treated wood in accordance with AHPA standards.

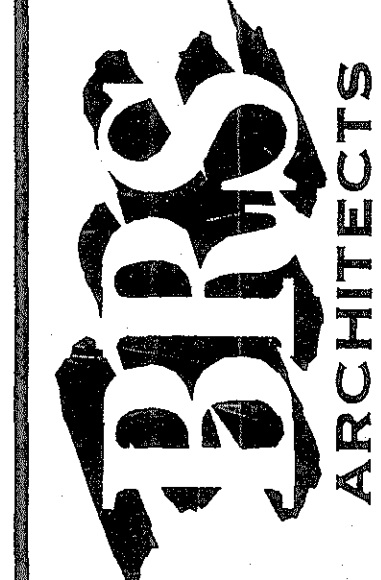
MASONRY:

- Concrete masonry units medium weight shall meet the requirements of ASTM C90 and ASTM C33.
- Level 1 special inspection is not required.
- $f'_m = 1500$ PSI.
- Grout $f'_c = 2000$ PSI. Grout mix shall conform with ASTM C476 - proportion by volume.
- Mortar type S. Mortar mix shall conform with ASTM C270 - proportion by volume.
- Masonry reinforcement ASTM A615, grade 60.
- Joint reinforcement ASTM A82.
- Minimum rebar lap = 48 bar diameters.
- Use running bond except as noted.
- There shall be a minimum of (1) #5 on all sides of and adjacent to, every opening which is less than 48" in both directions. Where the opening is 48" in either direction, a minimum of (2) #5 bar shall be used, one bar in each of the first two cells. In either case such bars shall extend not less than 24" beyond the corner of the opening.
- Joint reinforcement:
 - Side Rod Wire Size = .1483" diameter.
 - Cross Rod Wire Size = .1483" diameter.
- Minimum joint reinforcement lap = 12 inches.
- All cells containing reinforcement shall be filled solidly with grout. Grout shall be a workable mixture suitable for pumping without segregation and shall be thoroughly mixed. Grout shall be consolidated by mechanical vibration during placing and reconsolidated after excess moisture has been absorbed, but before workability is lost. The grouting of a wall shall be completed in one day with no interruptions greater than one hour.
- All reinforcing shall be placed prior to grouting. Vertical reinforcing bars shall be held in position at the top and bottom and at intervals not farther apart than 200 bar diameters.
- All concrete masonry walls shall be reinforced as follows unless otherwise noted on the plans:
 - Vertical Bars:
 - (1) #5 at 32" o.c. plus added bars at corners, intersections, ends, etc. as shown.
 - Horizontal Bars:
 - (1) #5 at each roof and floor elevation, at top of walls, at first course above and below any openings, and at 4'-0" o.c. between, plus additional bond beams as shown on drawings. Joint reinforcing at 16" o.c. maximum.
- There shall be a minimum of 1" of grout all the way around all anchor bolts.
- Brick veneer anchors = "Dur-O-Wall Dur-O-Eye" or equal at 16" o.c. each direction. Provide anchors in first and second joints above and below openings.



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BOISE, IDAHO

RAYCO

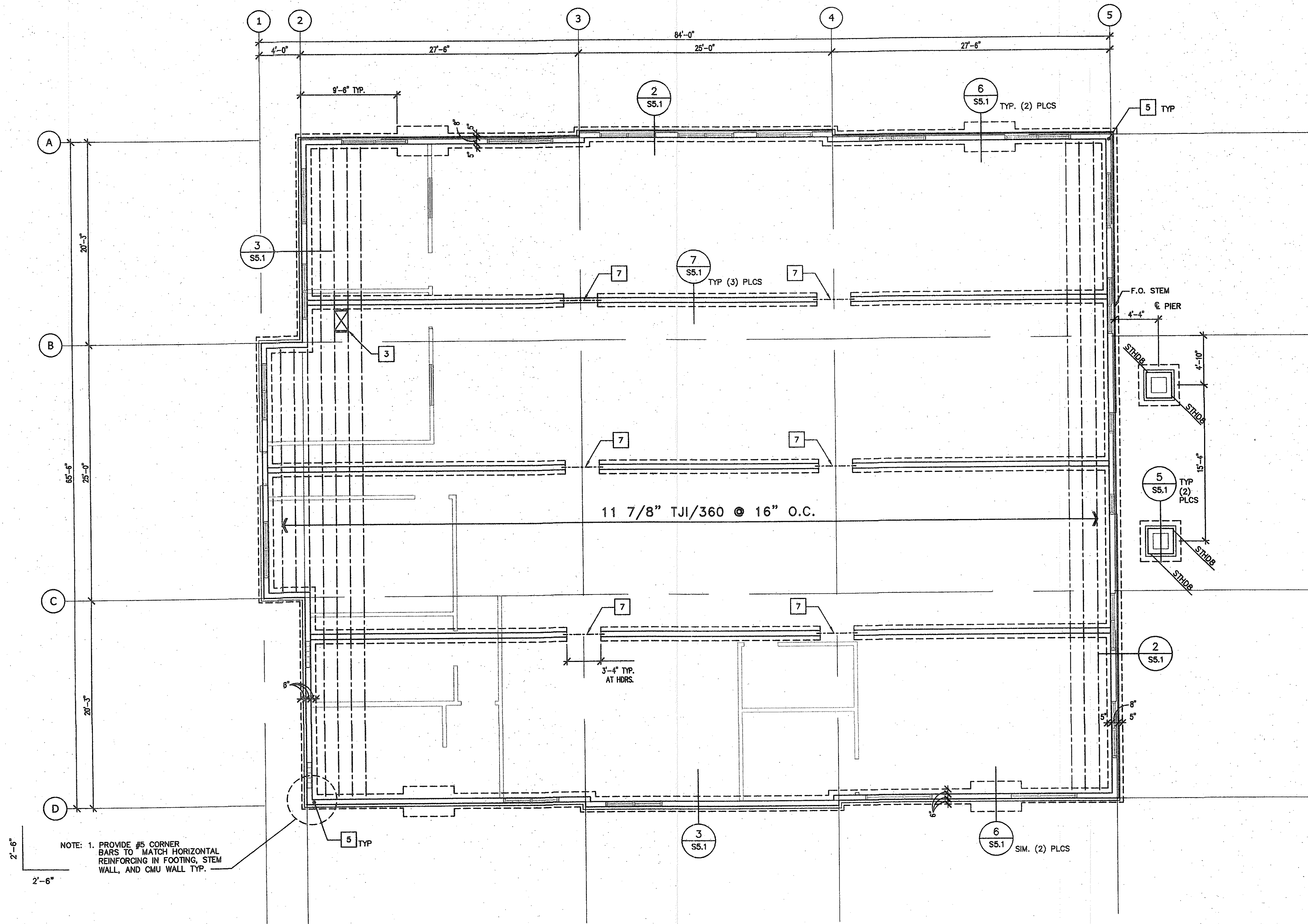
PROPOSED DEVELOPMENT FOR:
PRESIDENT DRIVE

DRAWN	RB
DATE	6-1-06
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JOB NO.	05259.03
SHEET	S0.1

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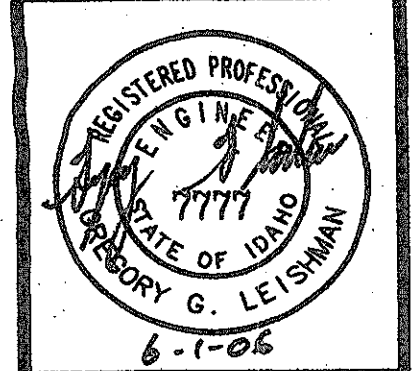
STRUCTURAL NOTES:



FOUNDATION KEYNOTES:

- 1 SEE SHEET S0.1 FOR STRUCTURAL NOTES.
- 2 COORDINATE/VERIFY DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
- 3 CRAWL SPACE ACCESS. VERIFY LOCATION/SIZE WITH ARCHITECTURAL. PROVIDE HEADERS, HANGERS AND DOUBLE JOISTS.
- 4 BLOCKDOWN STEM WALL 8" AT DOORS AND CAST SLAB OVER, SEE DETAIL 3/SS.1.
- 5 COORDINATE/VERIFY HOLDOWN REQUIREMENTS WITH "KORETECK" WALL PANEL SHOP DRAWINGS.
- 6 COORDINATE/VERIFY WALL PANEL LAYOUT, DIMENSIONS, ETC. WITH "KORETECK" WALL PANEL SHOP DRAWINGS.
- 7 (2) 11 7/8" LVL. FLUSH HEADER PROVIDE DOUBLE STUD EA. END MAX. OPENING 4'-0". PROVIDE TOP FLANGE HANGERS AS REQUIRED.

340' Down
160
130
290



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FOUNDATION PLAN
SCALE: 3/16"=1'-0"

FOUNDATION PLAN



SCALE: $3/16"=1'-0$

-
- 6-1-06

ROOF FRAMING PLAN



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SAWCUT

CONTRACTORS
OPTION TO USE
EITHER SAWN
OR FORMED JOINT

FORMED KEY

NOTE: CONTROL JOINT
SPACING NOT
TO EXCEED
12'-0" O.C.

1 TYPICAL CONTROL JOINT

SCALE: 3/4"=1'-0"

2 FOOTING BELOW GIRDER TRUSS

SCALE: 3/4"=1'-0"

3 FOOTING BELOW GIRDER TRUSS

SCALE: 3/4"=1'-0"

4 PIPE THRU FOUNDATION

SCALE: NTS

5 ENTRY COLUMNS

SCALE: 3/4"=1'-0"

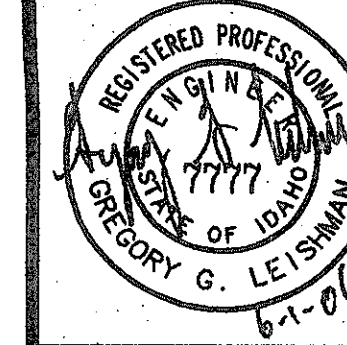
6 FOOTING BELOW GIRDER TRUSS

SCALE: 3/4"=1'-0"

7 FOUNDATION AT CRAWL SPACE

SCALE: 3/4"=1'-0"

NOTE:
CONTRACTOR SHALL VERIFY
LOCATION OF ALL UNDERGROUND
PIPING, CONDUIT, ETC. W/ APPROPRIATE
SUBCONTRACTOR. ADJUST FOOTING
ELEVATIONS AS REQUIRED.



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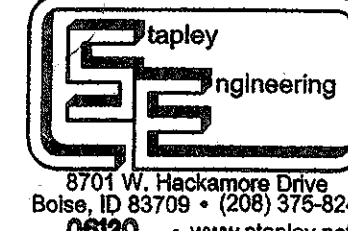
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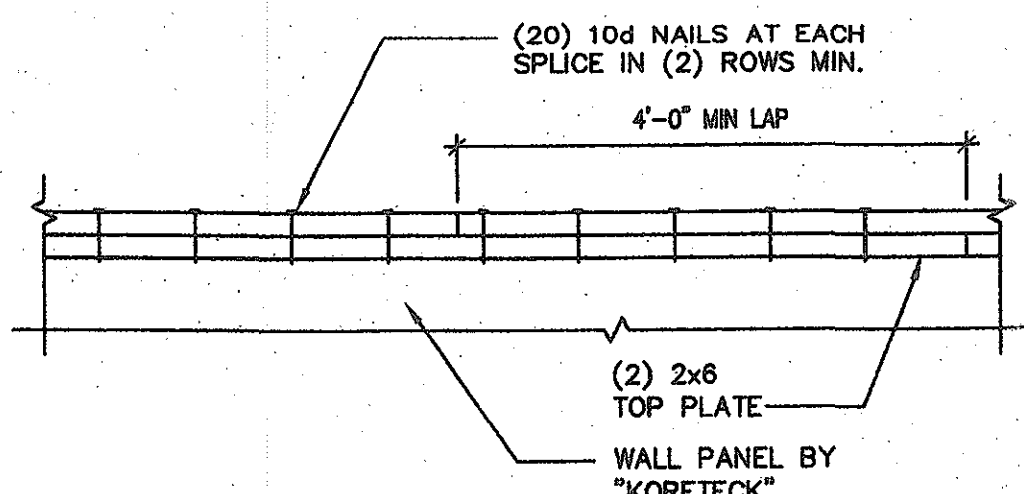
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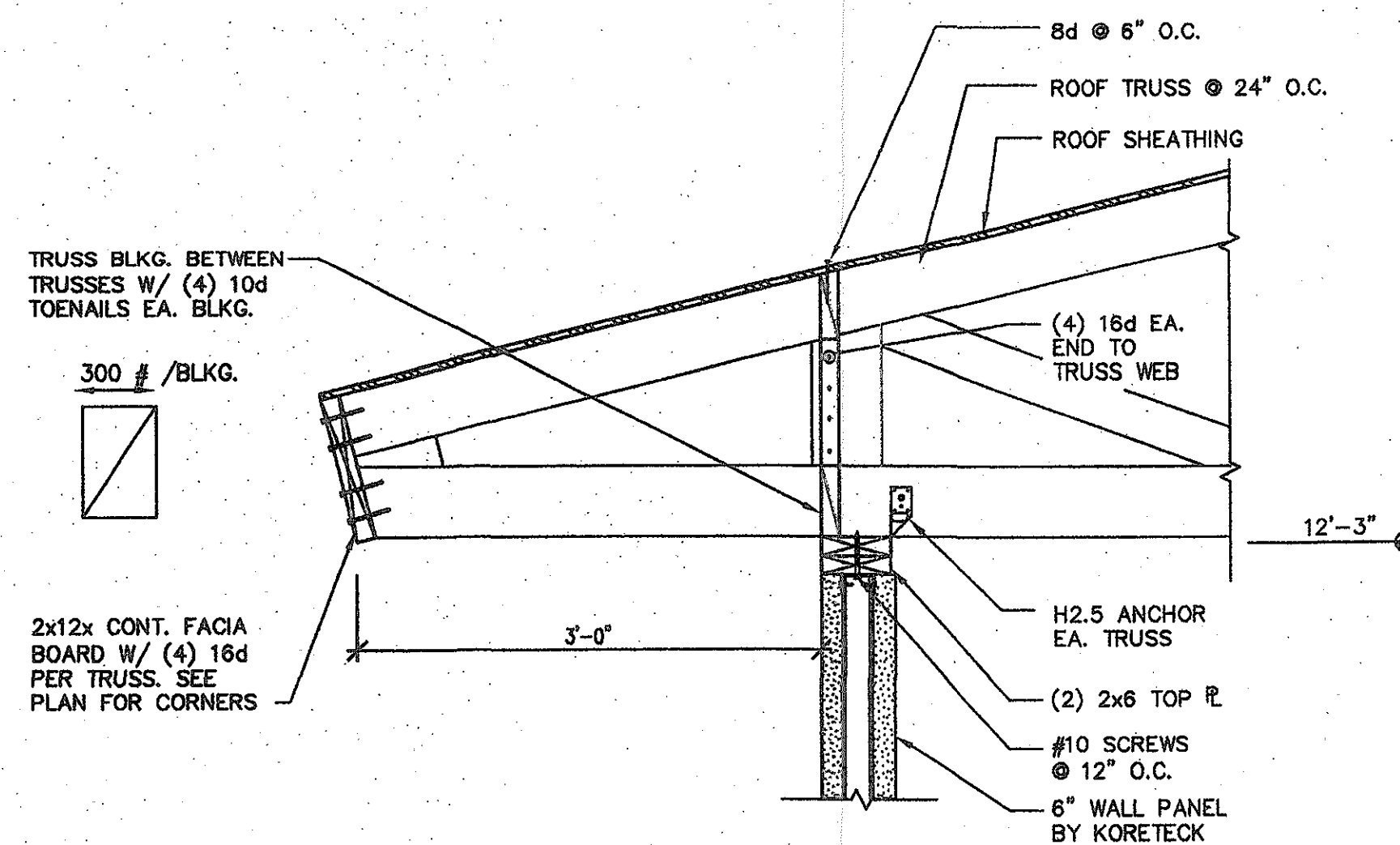
FOUNDATION DETAILS



DOUBLE PLATE SPLICE

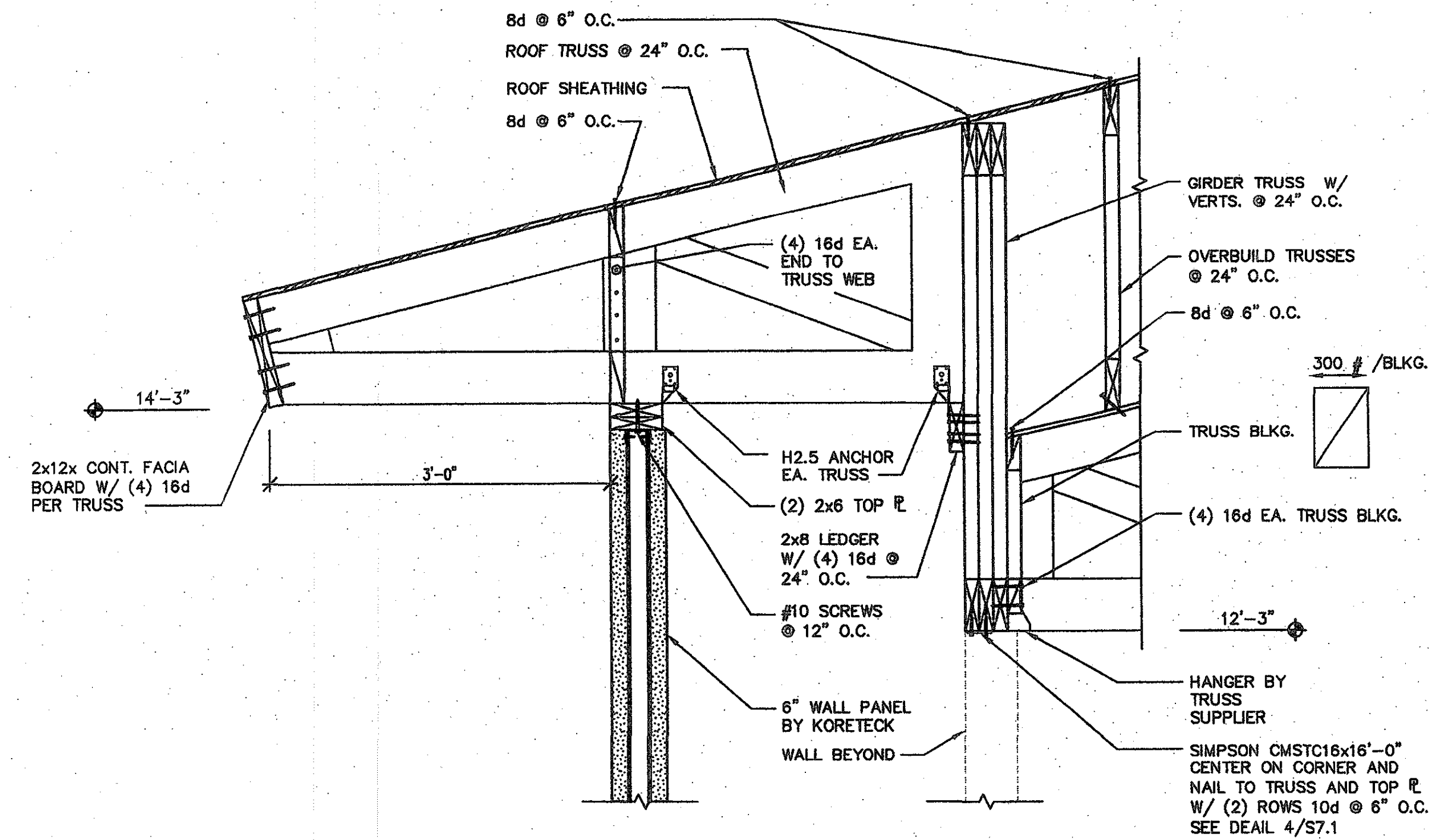
1 TOP PLATE SPLICE

SCALE: 1"=1'-0"



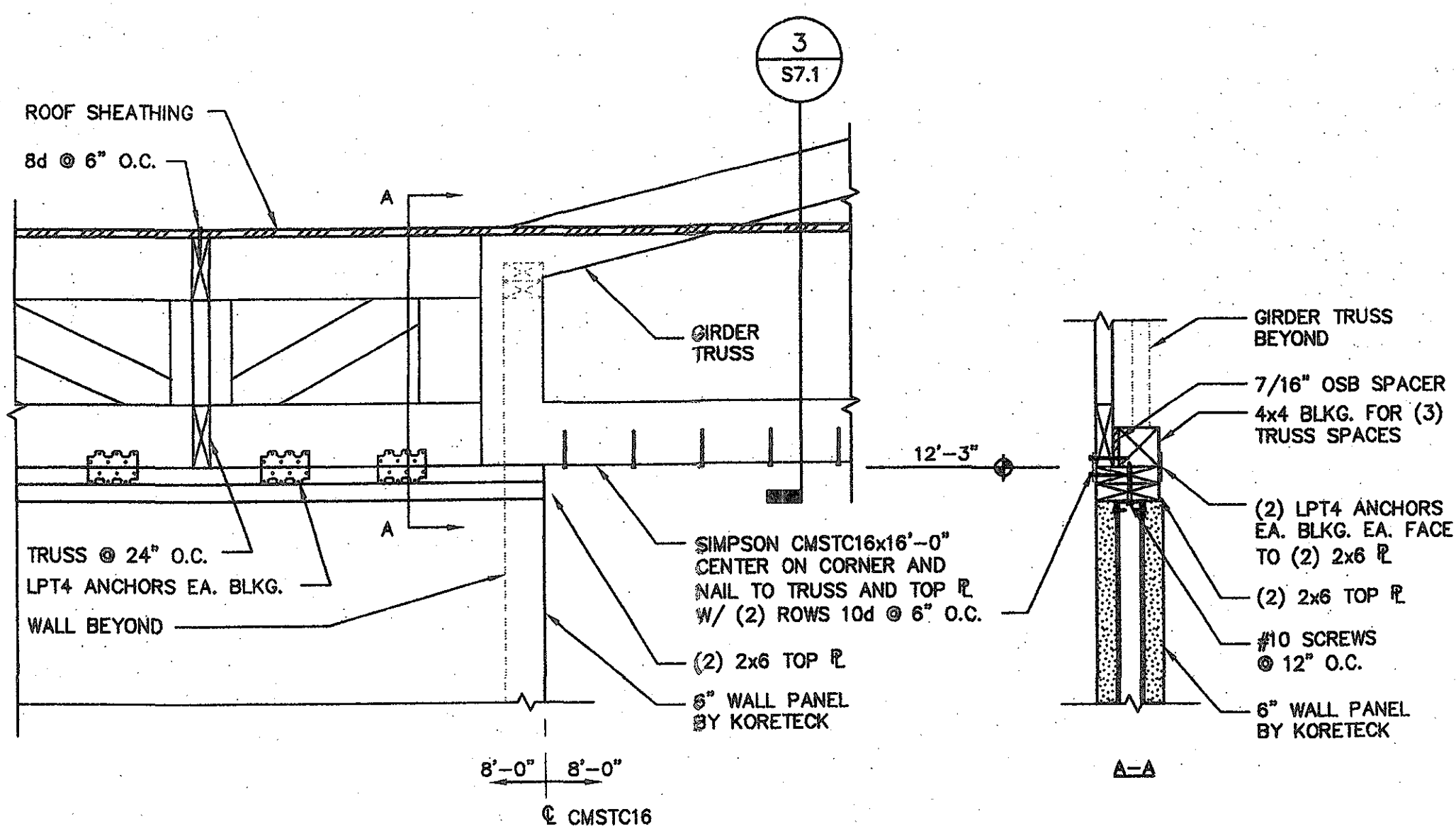
2 TRUSS TO WALL DETAIL

SCALE: 1"=1'-0"



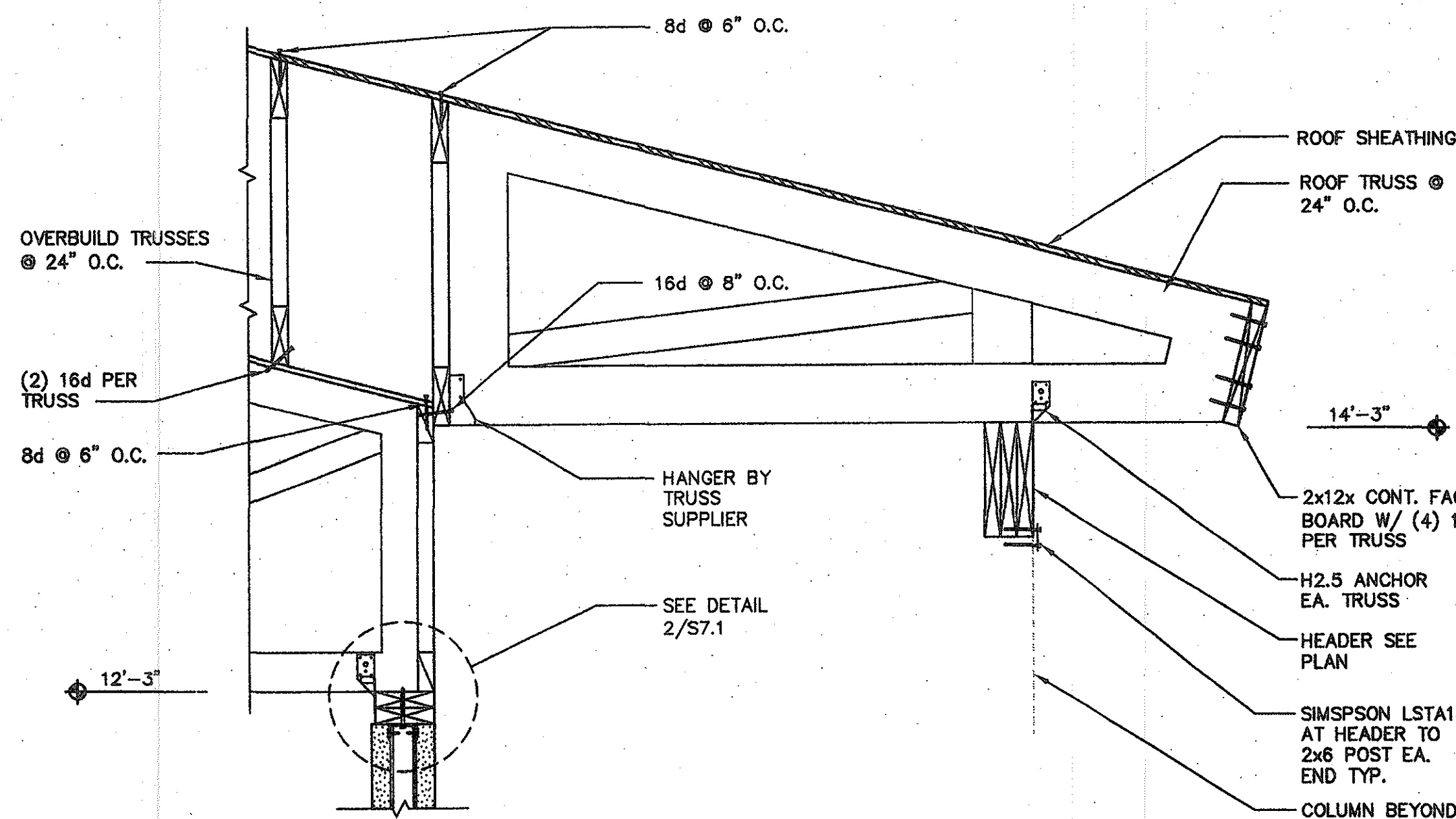
3 TRUSS TO WALL DETAIL

SCALE: 1"=1'-0"



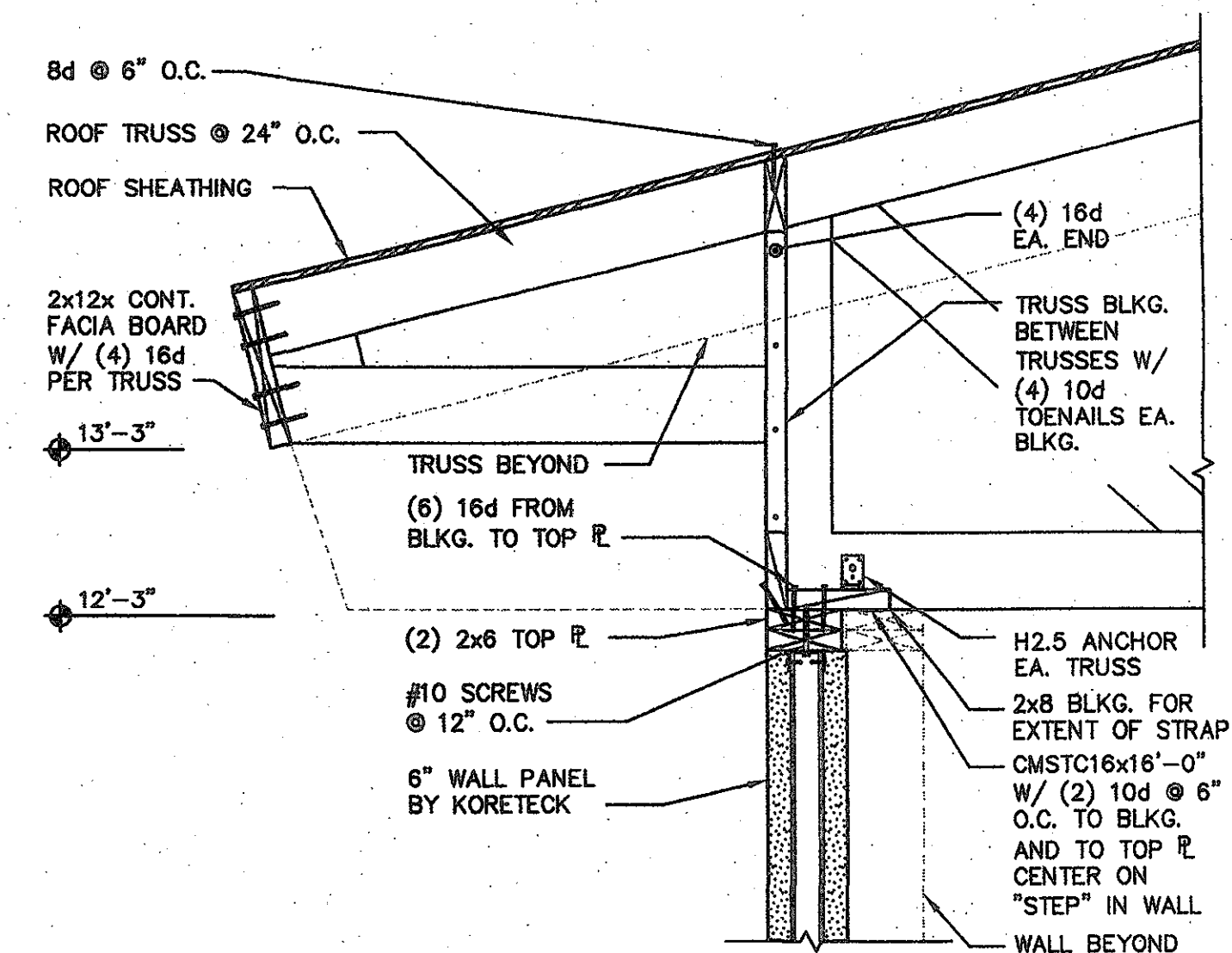
4 TRUSS TO WALL DETAIL

SCALE: 1"=1'-0"



5 TRUSS TO TRUSS DETAIL

SCALE: 1"=1'-0"



6 TRUSS TO WALL DETAIL

SCALE: 1"=1'-0"

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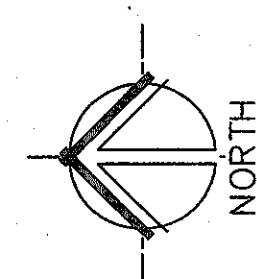
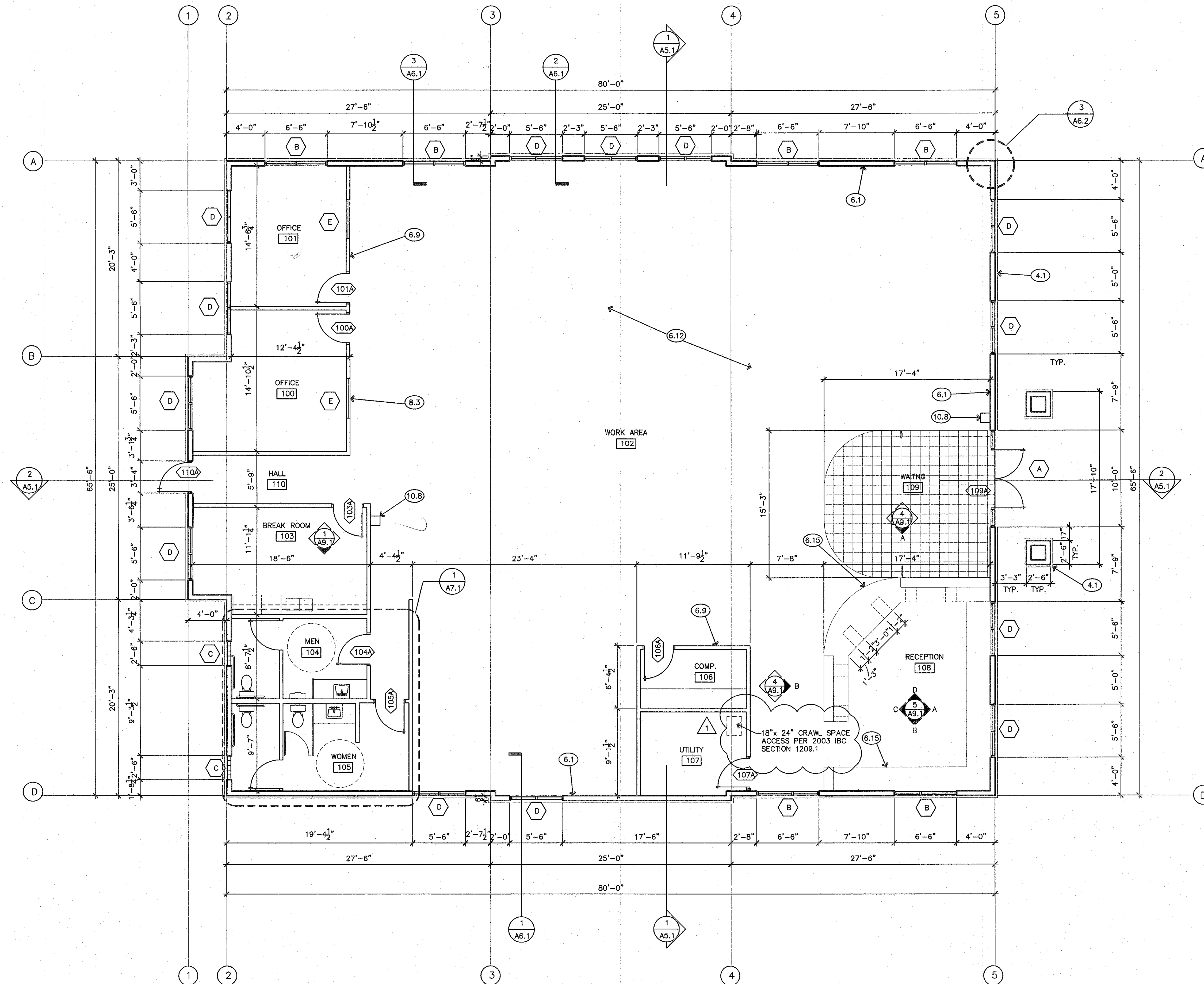
PRESIDENT DRIVE

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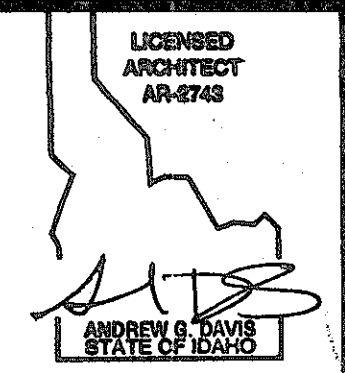
FOUNDATION DETAILS



FLOOR PLAN
SCALE: 3/16"=1'-0"

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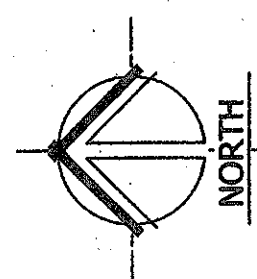
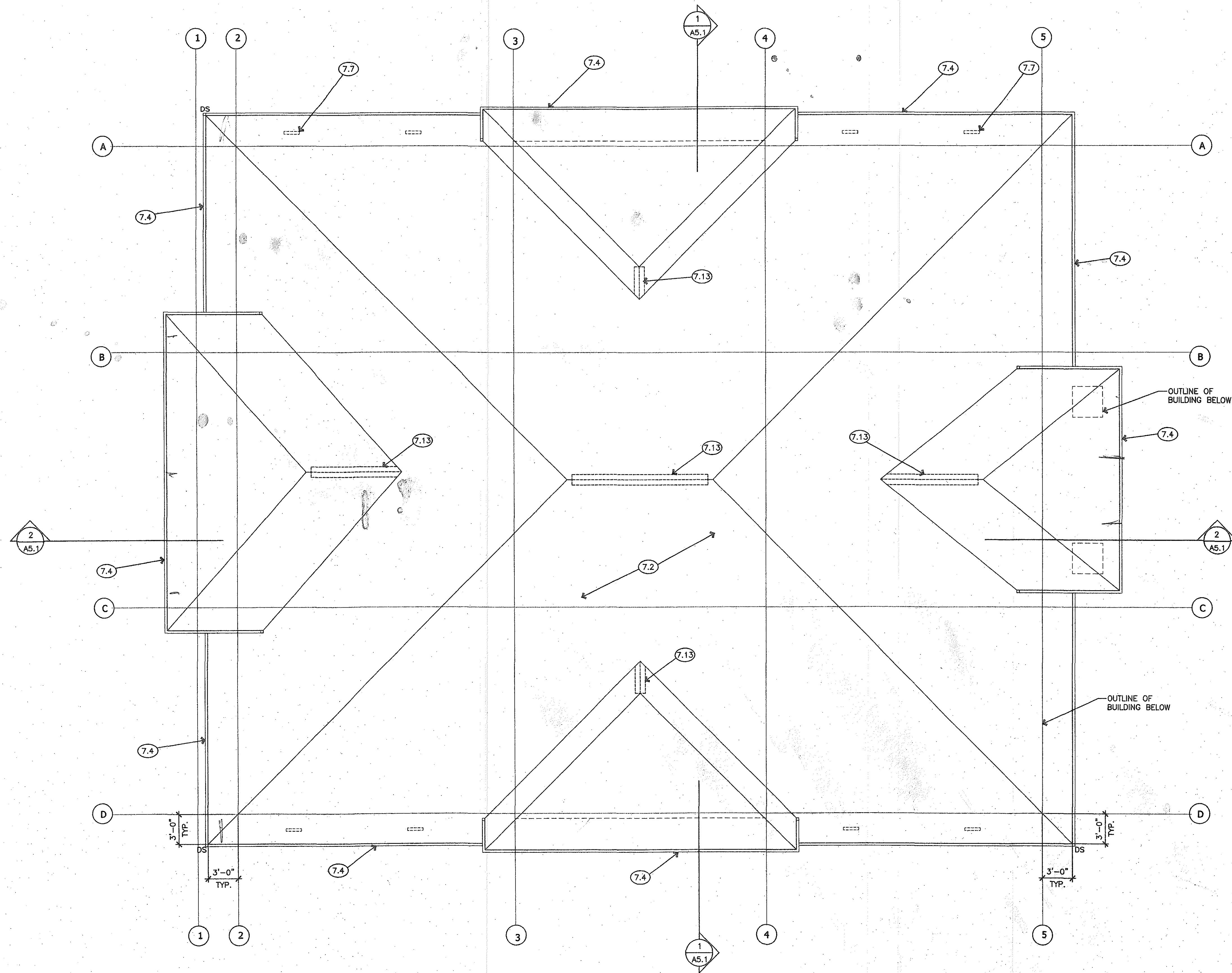
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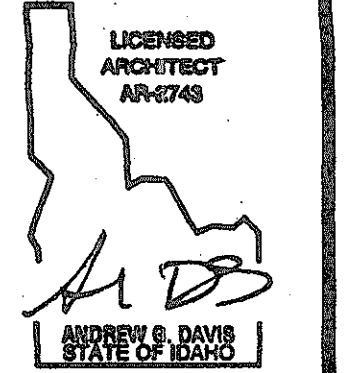
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ROOF PLAN
SCALE: 1/4"=1'-0"



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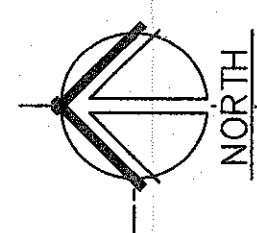
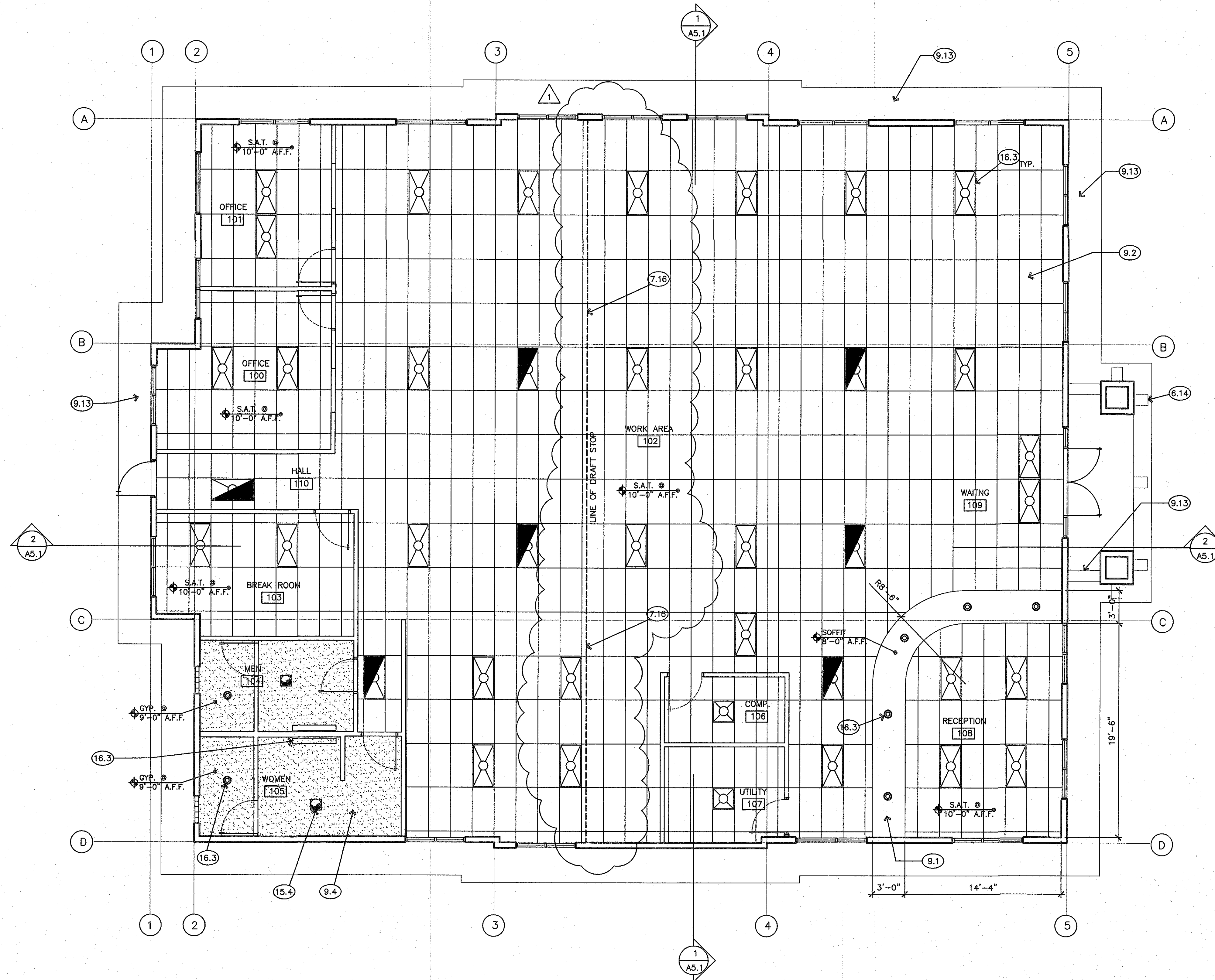
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REFLECTED CEILING PLAN
SCALE: 1/4"=1'-0"

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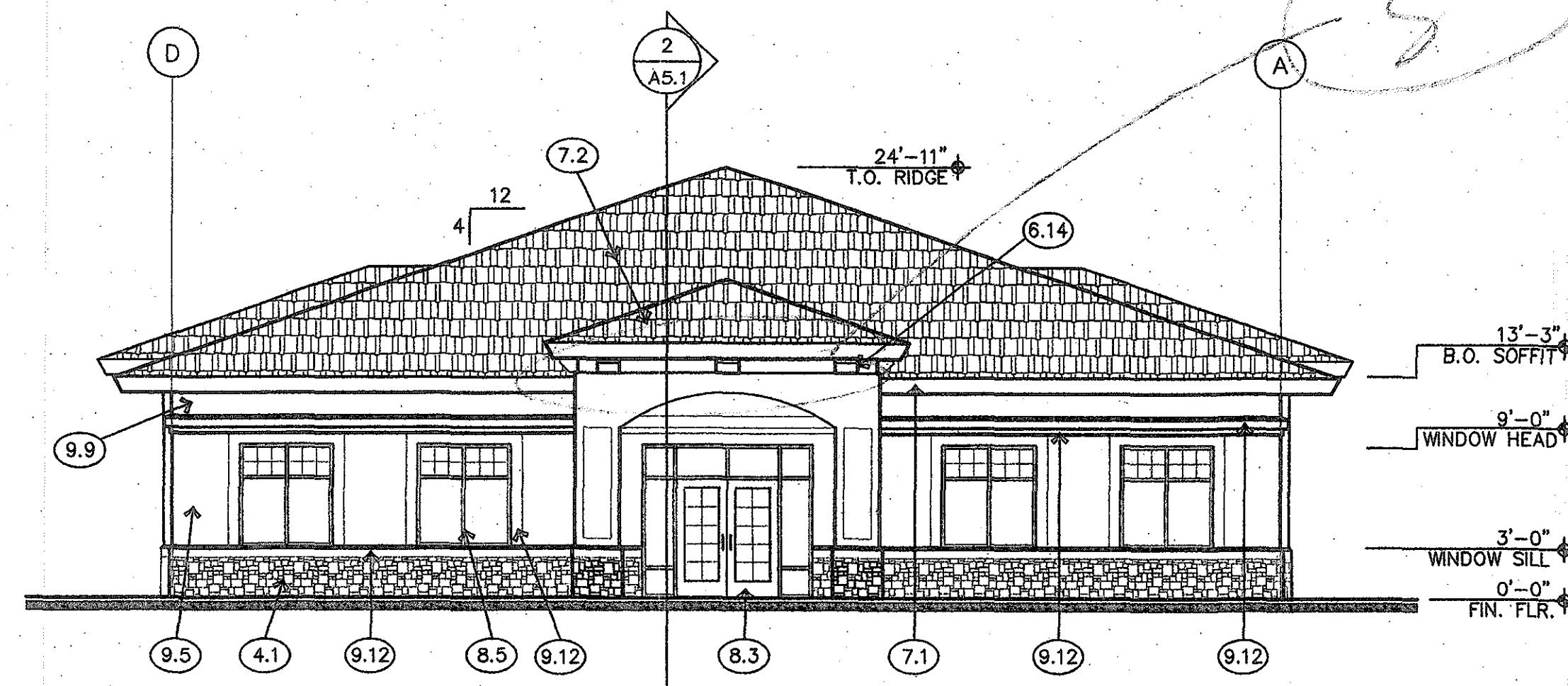
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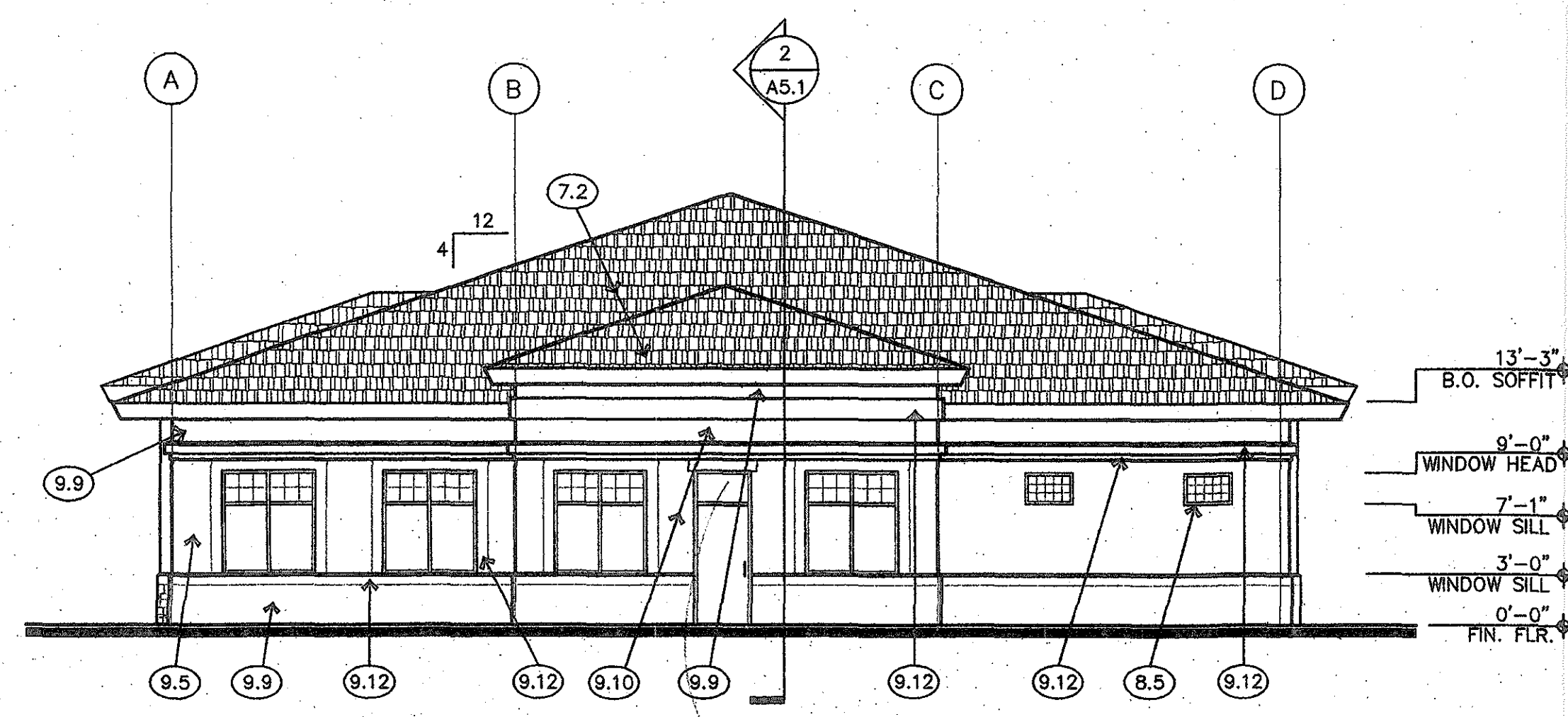
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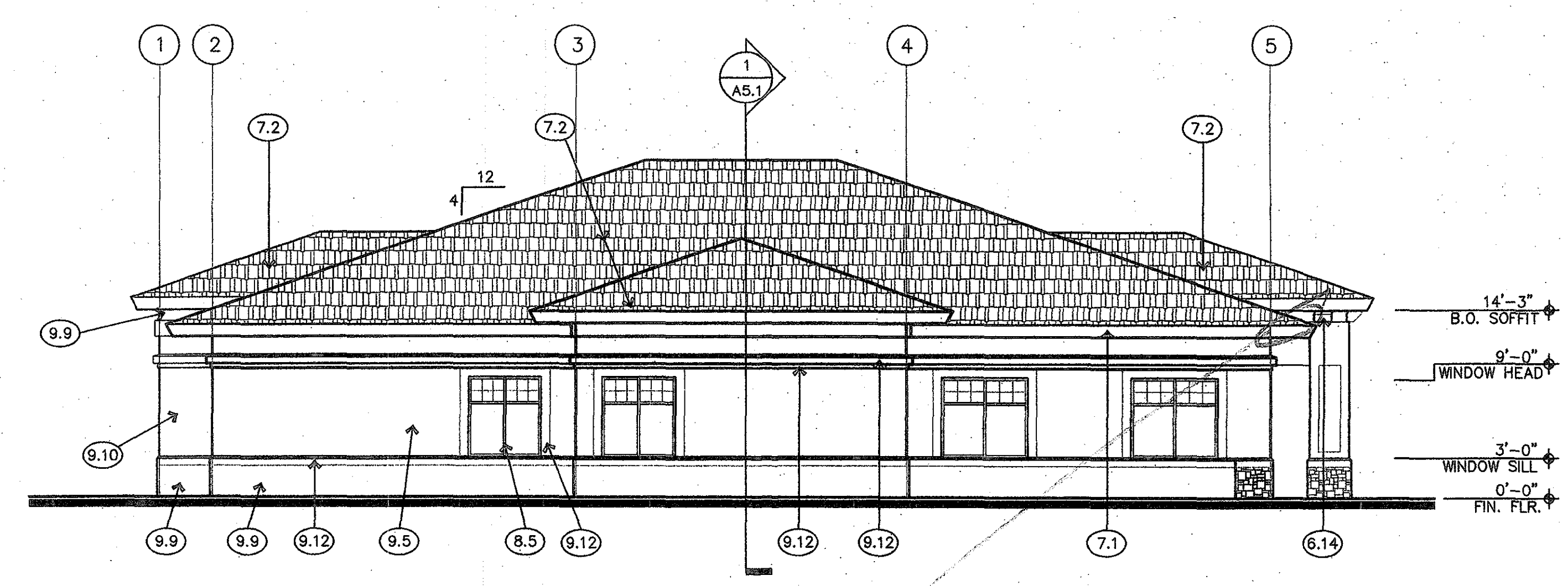
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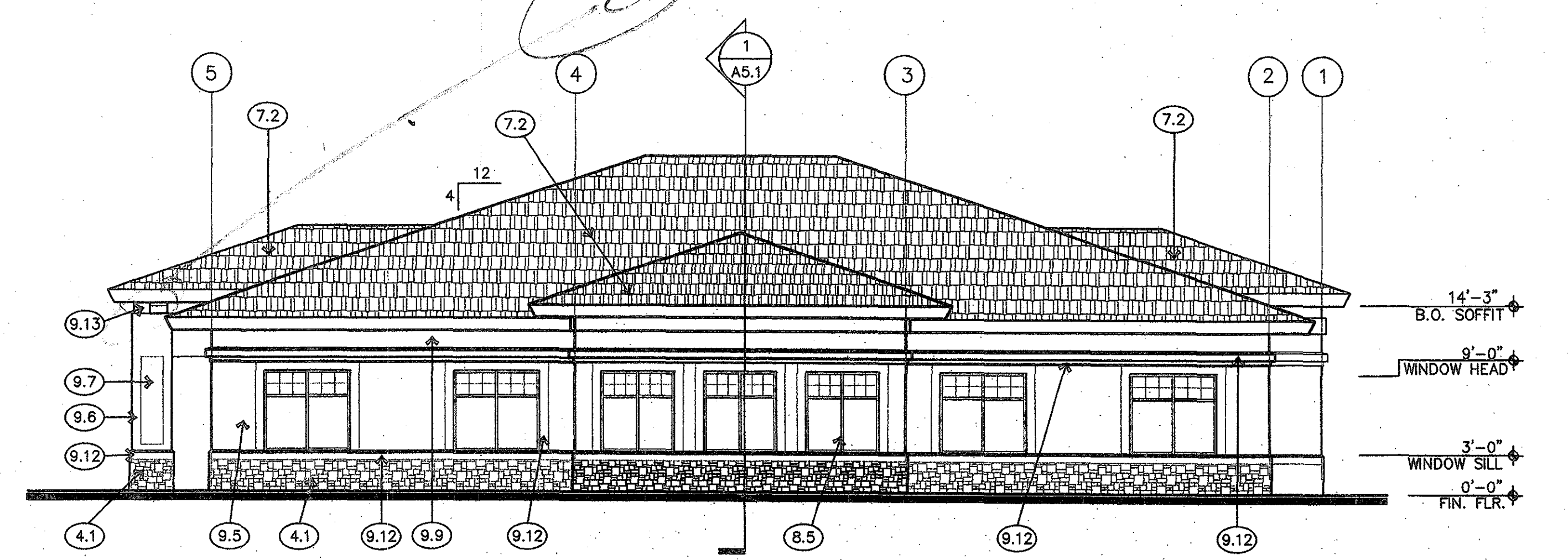
SOUTH ELEVATION
SCALE: 1/8"=1'-0"



NORTH ELEVATION
SCALE: 1/8"=1'-0"



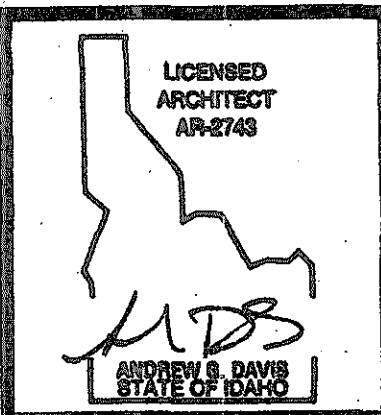
WEST SIDE ELEVATION
SCALE: 1/8"=1'-0"



EAST SIDE ELEVATION
SCALE: 1/8"=1'-0"

STUCCO NOTE:
INSTALL STUCCO SUBSTRATE PER MANUFACTURER'S
RECOMMENDATIONS. COLORS AS SPECIFIED BY ARCHITECT.

16'8"
7'5" 4' 12"



DATE	
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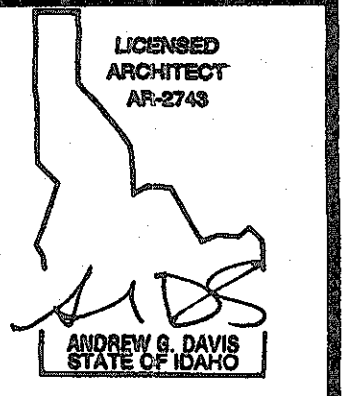
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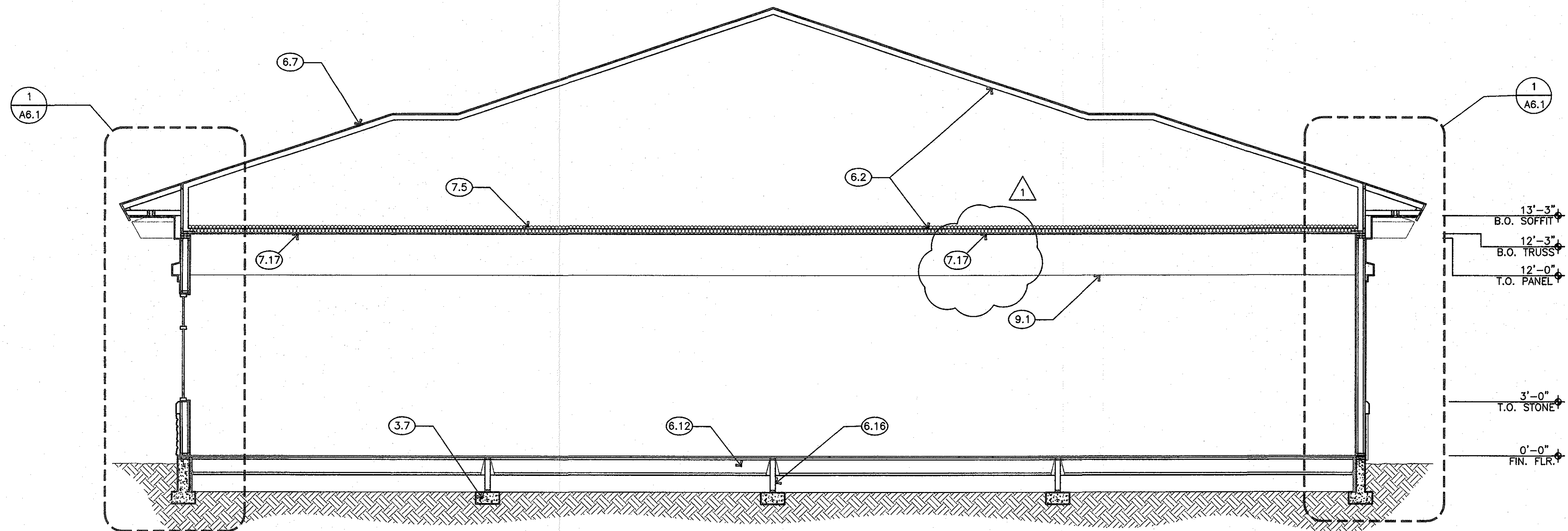
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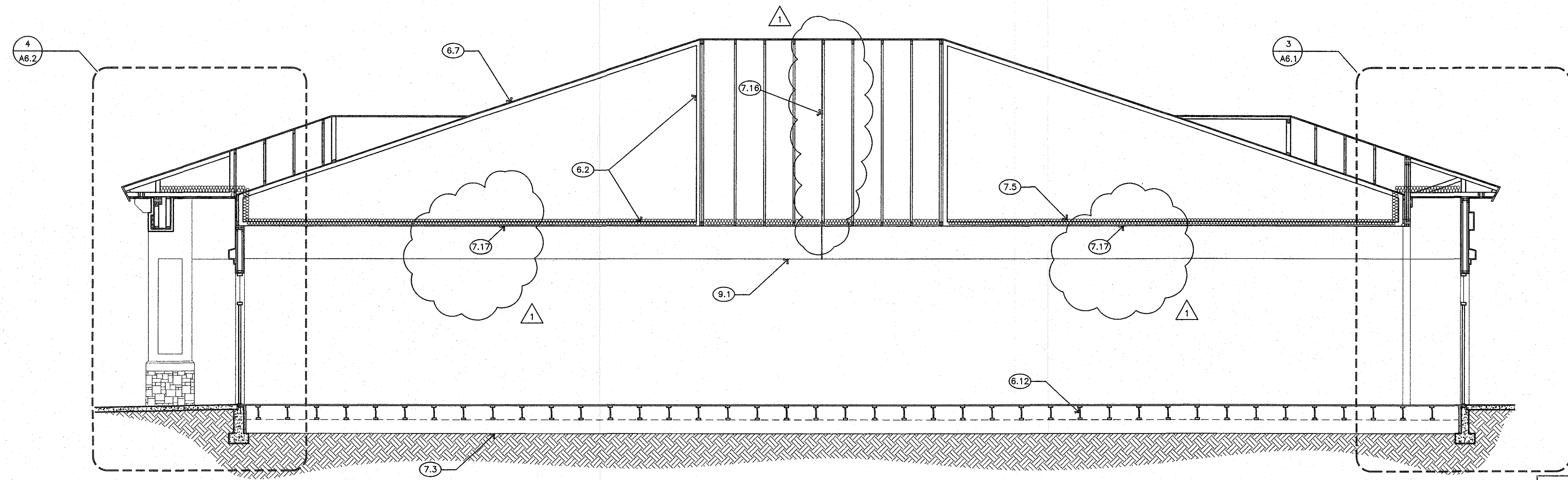


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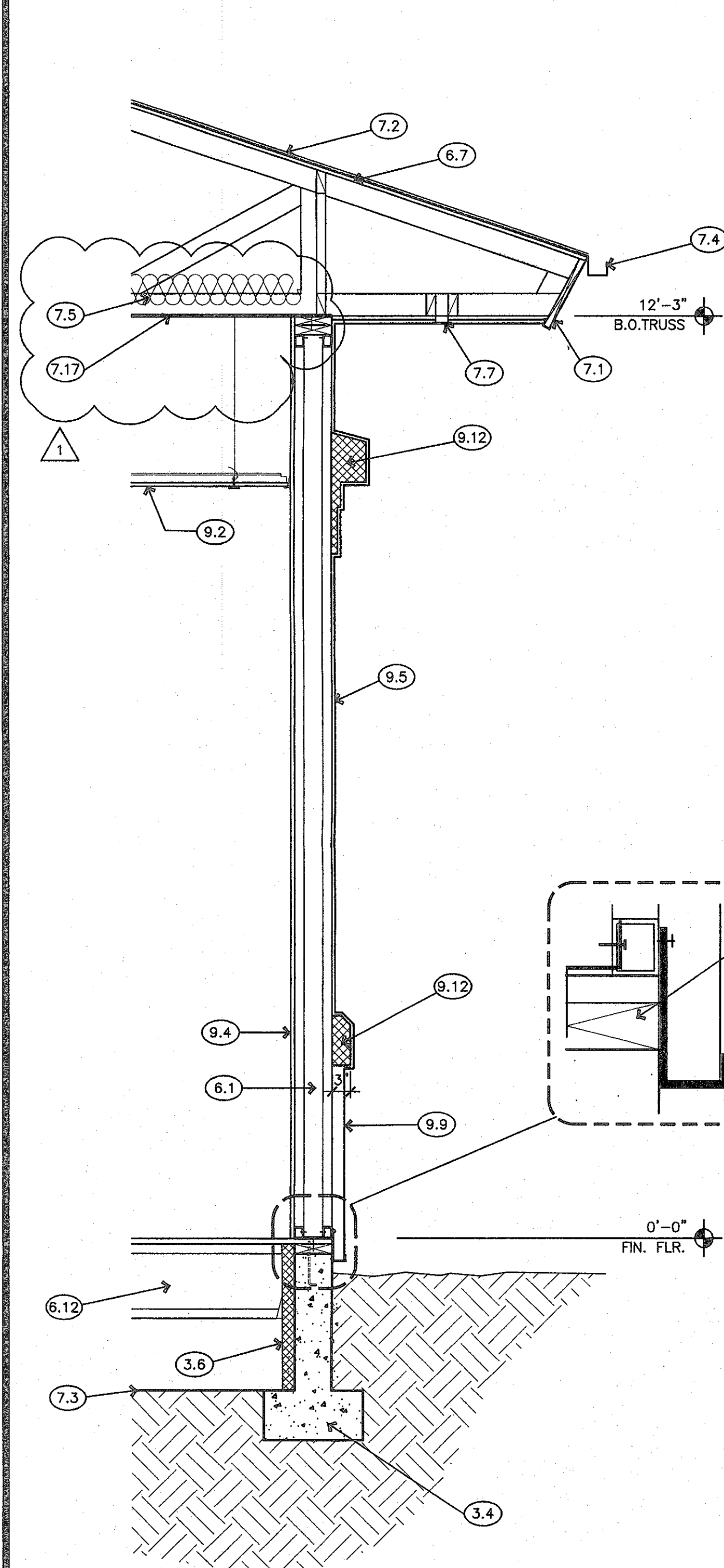
1 BUILDING SECTION
SCALE: 1/4"=1'-0"



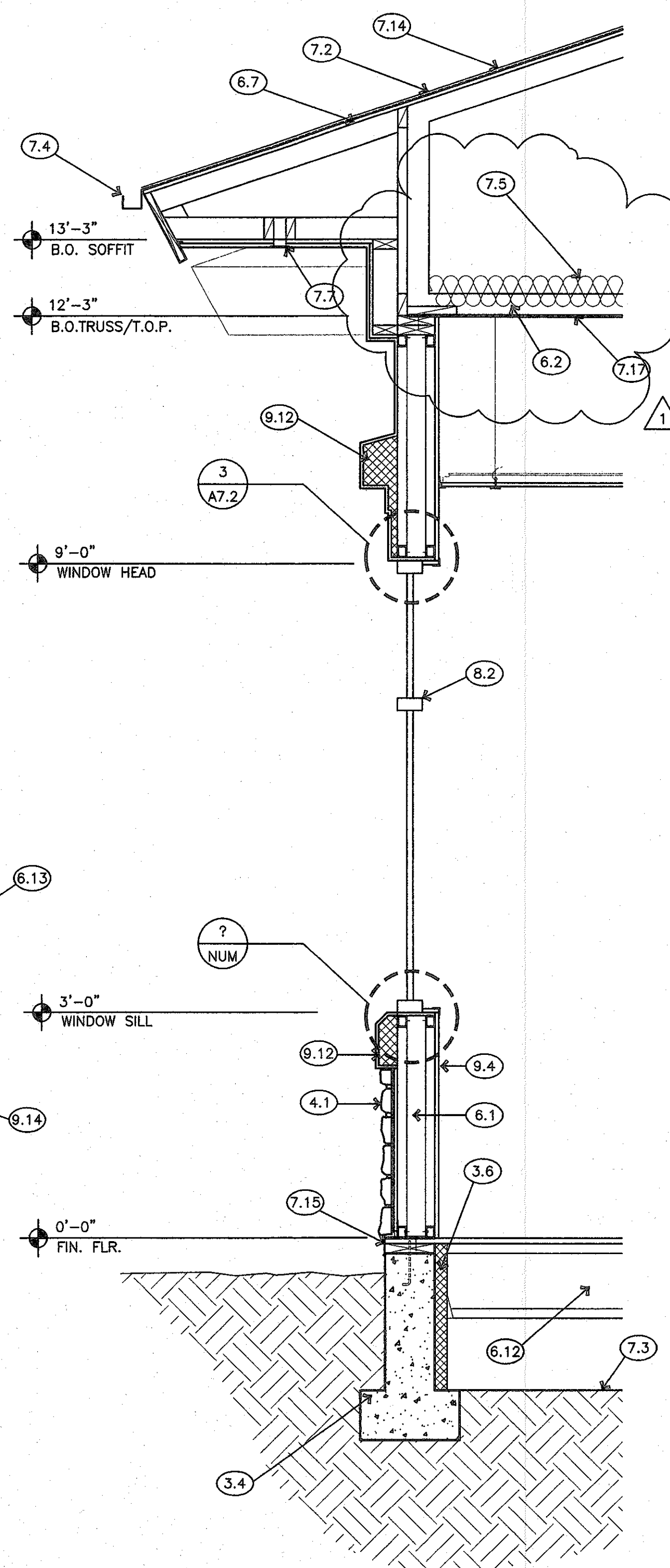
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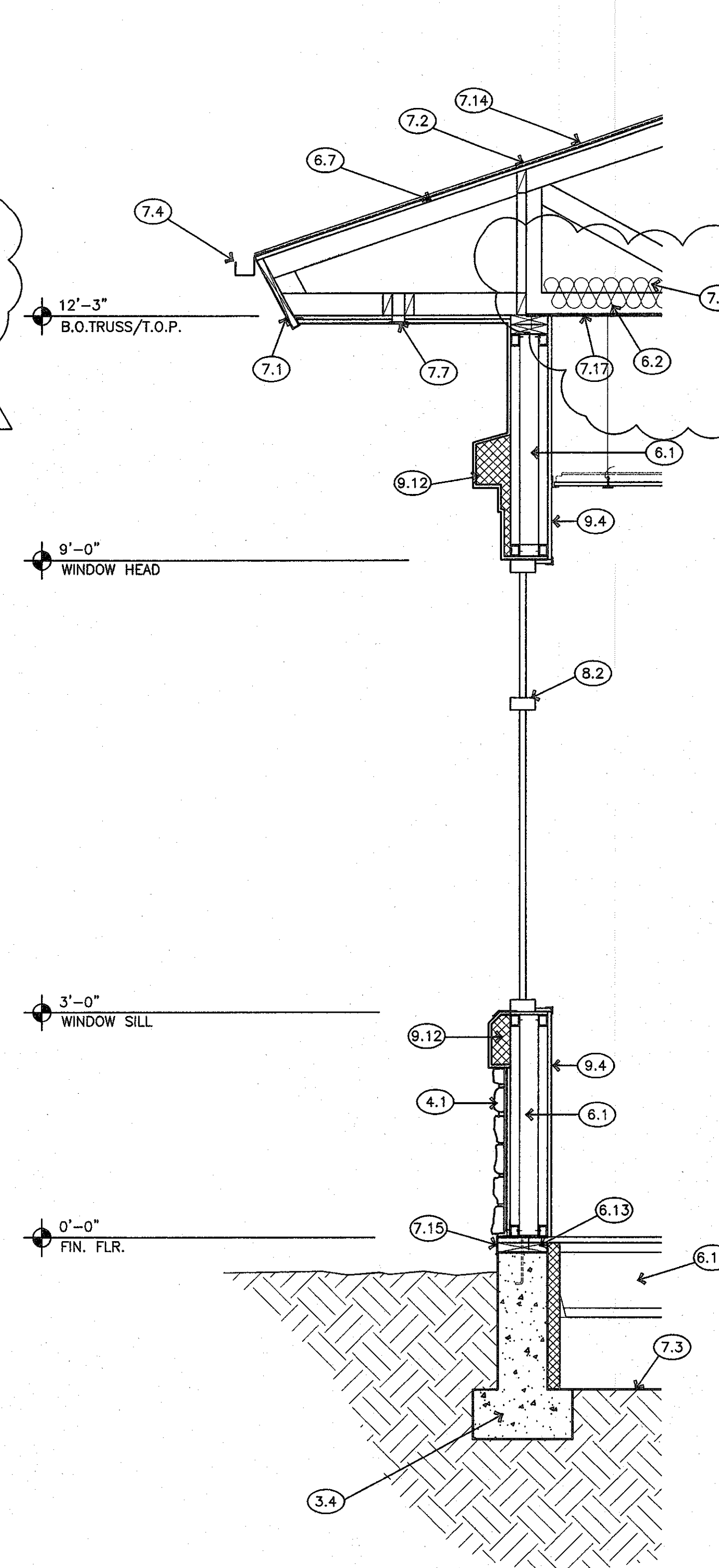
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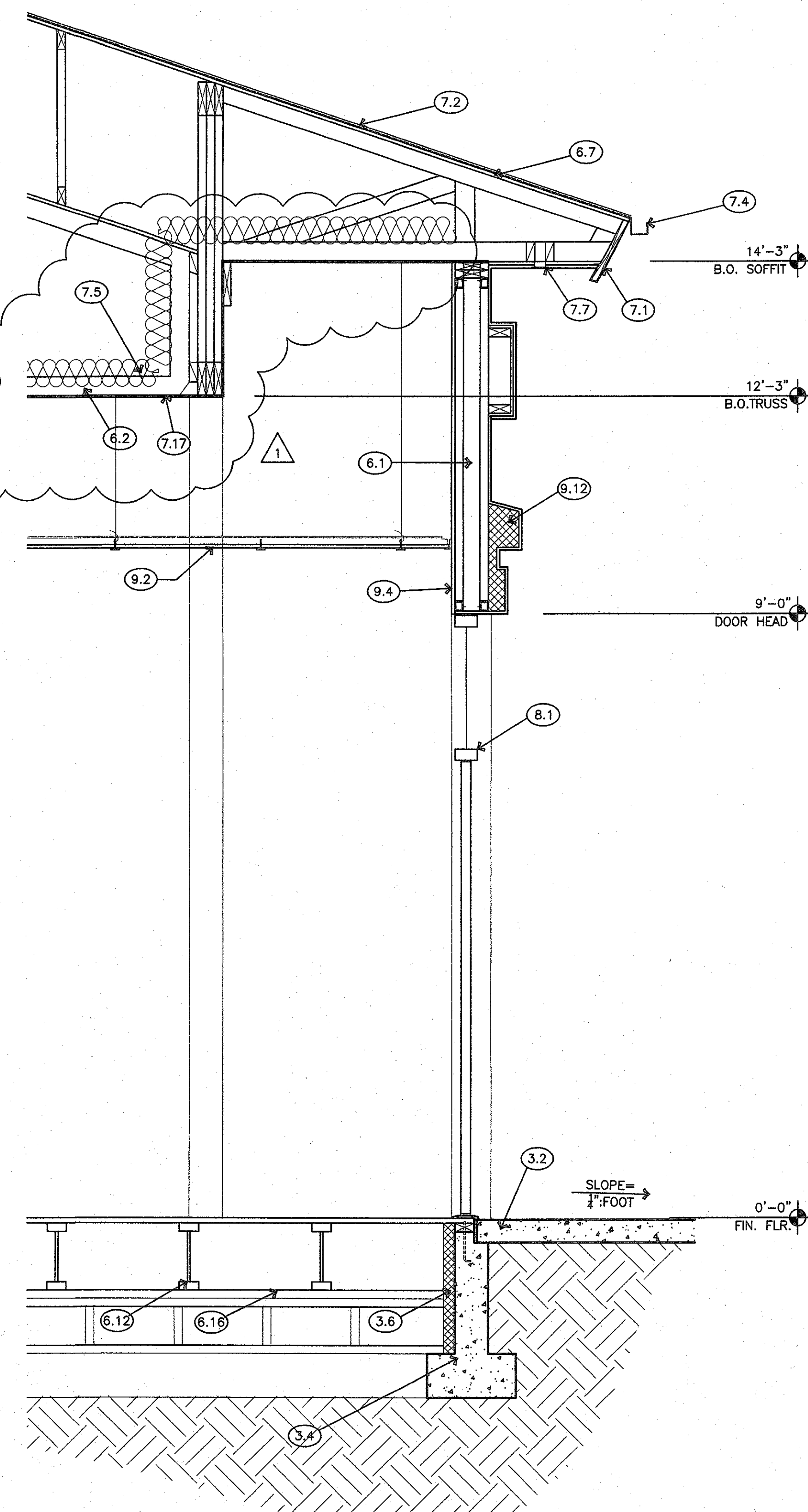
1 WALL SECTION
SCALE: 3/4"=1'-0"



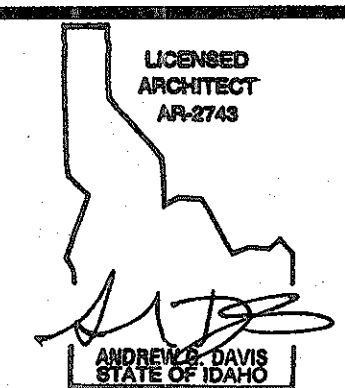
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SCALE: 3/4"=1'-0"



3 WALL SECTION
SCALE: 3/4"=1'-0"



4 WALL SECTION
SCALE: 3/4"=1'-0"



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BOISE, IDAHO

RAYCO

PROPOSED DEVELOPMENT

PRESIDENT DRIVE

DRAWN

DTS

DATE

5/5/06

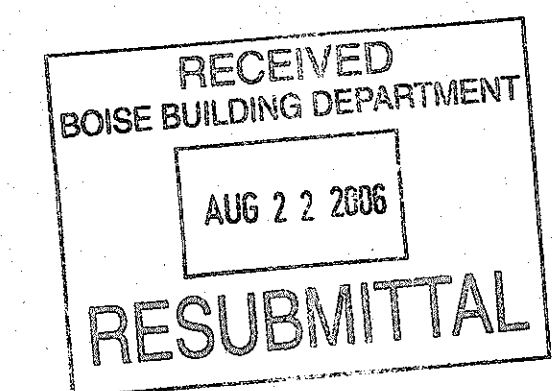
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JOB NO.

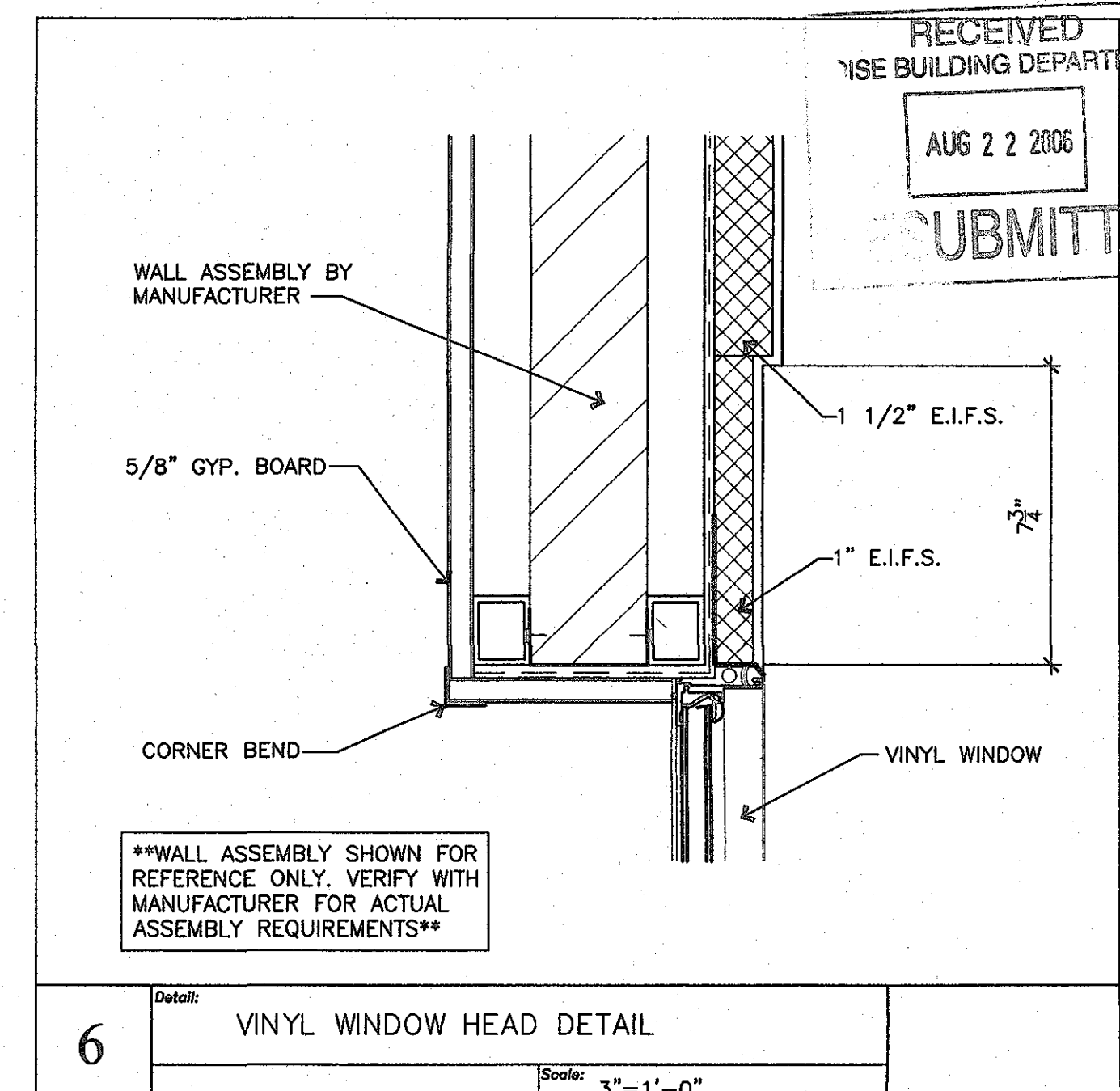
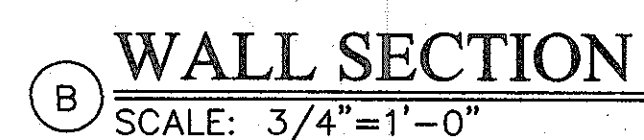
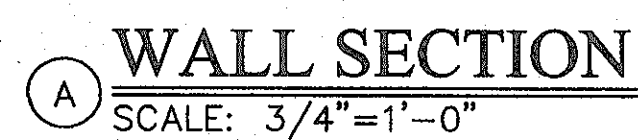
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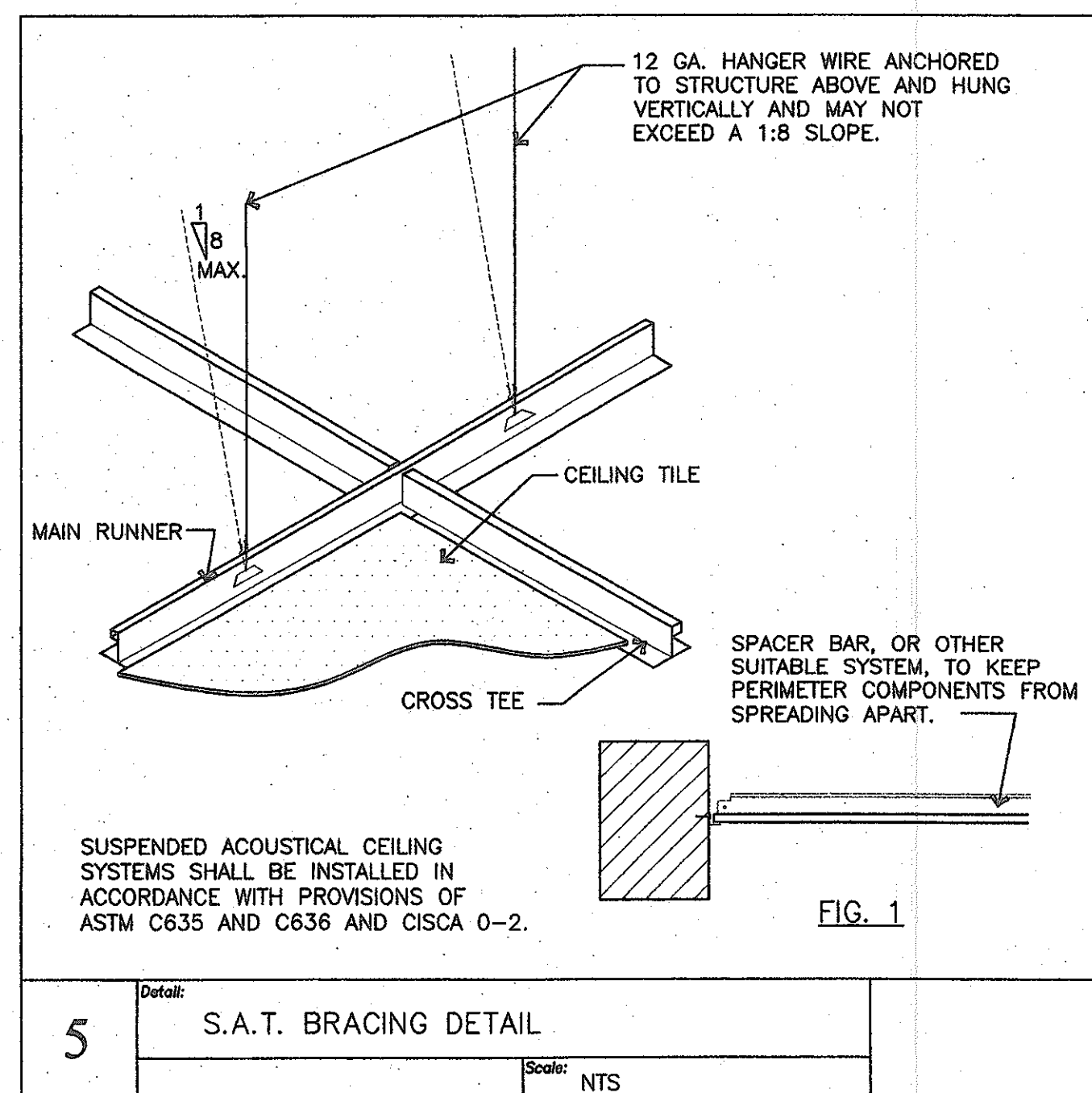
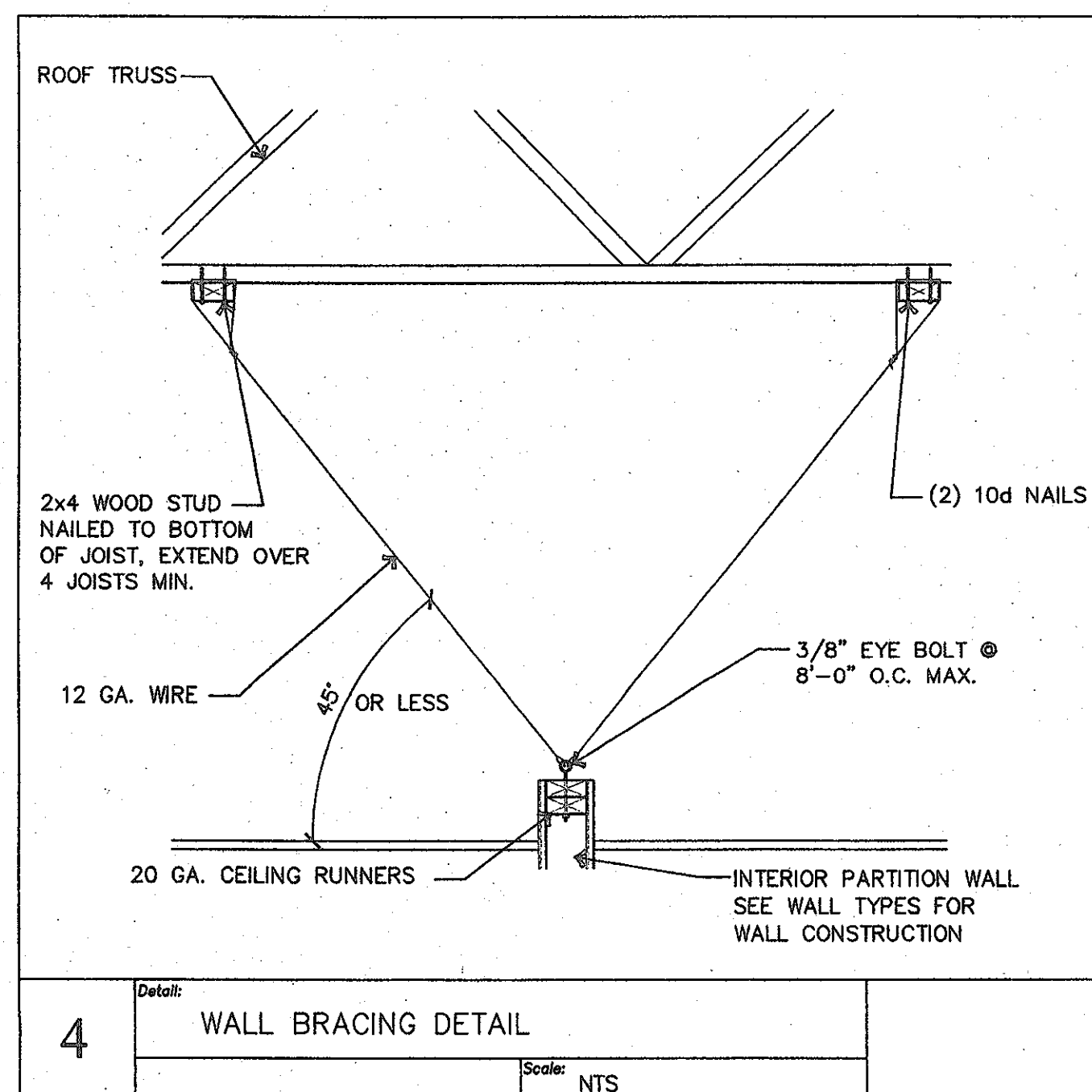
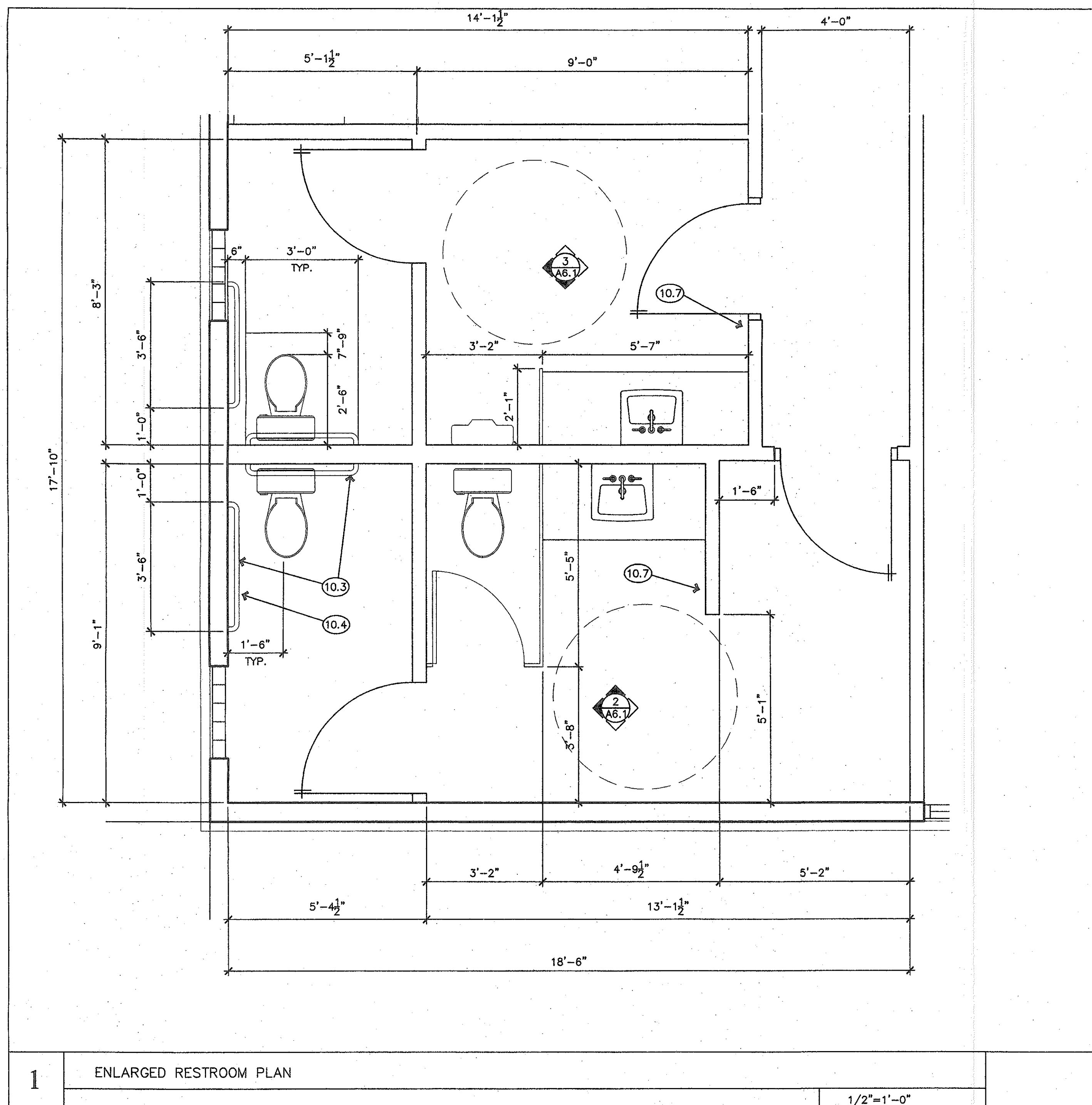
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A6.1

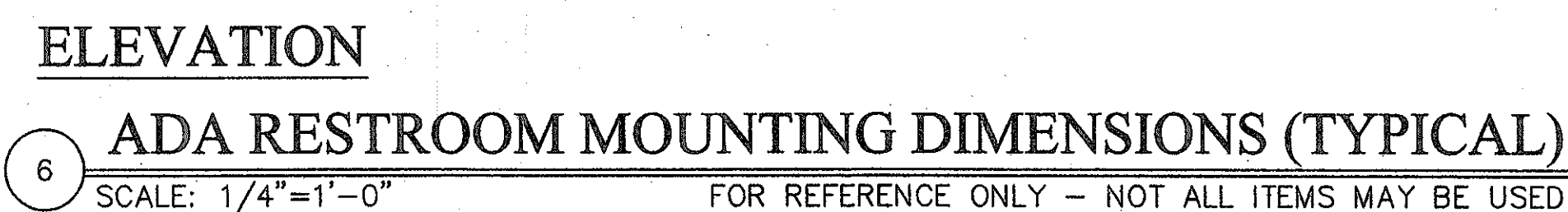
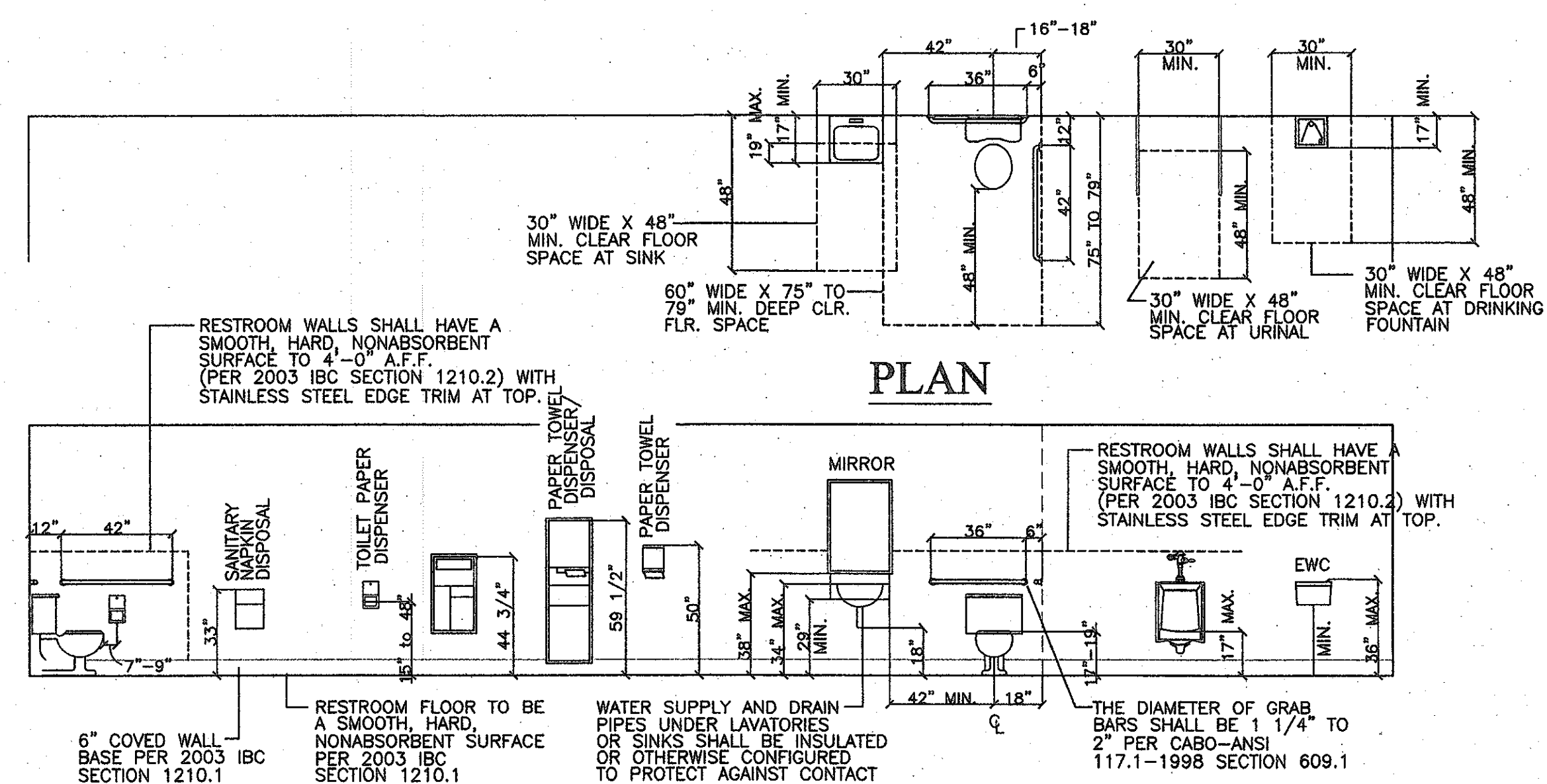
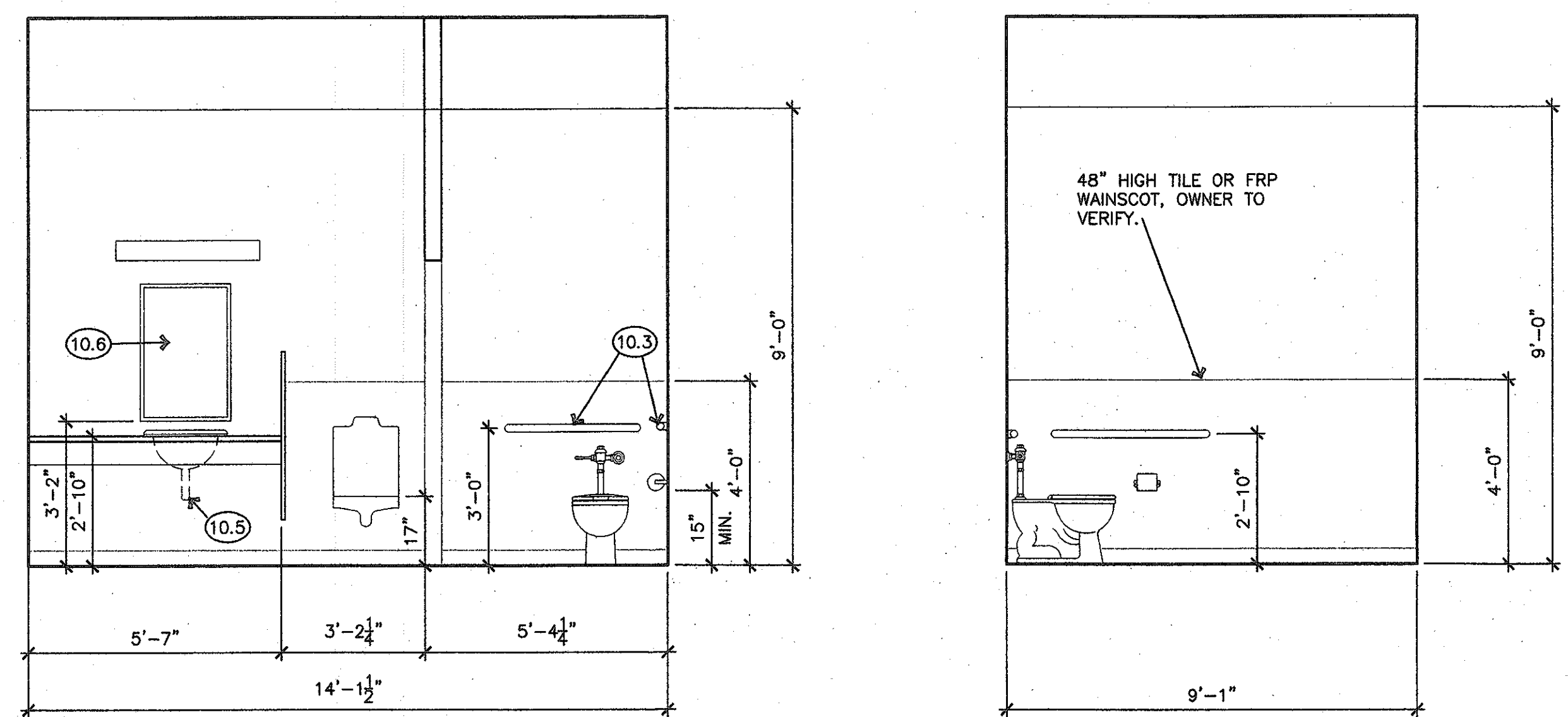
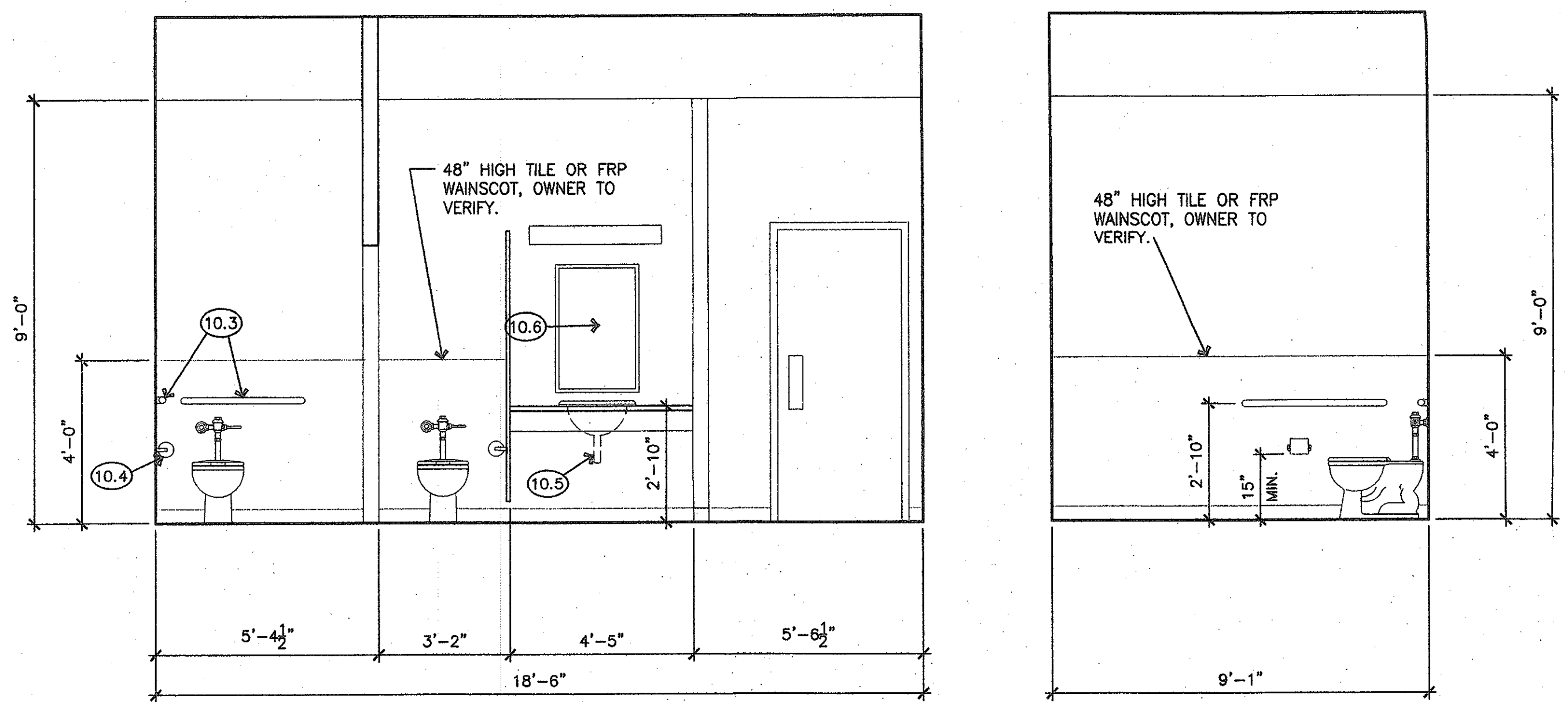


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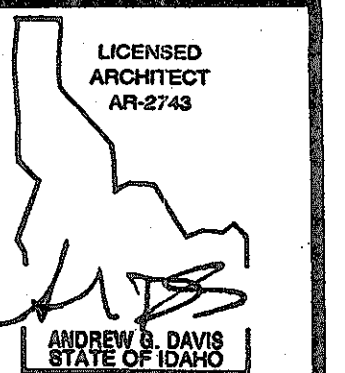


NOTE: FLOORING AND WALL SURFACES SHALL BE SMOOTH, HARD AND NON-ABSORBANT TO 48" A.F.F. PER TENANT FINISHES.



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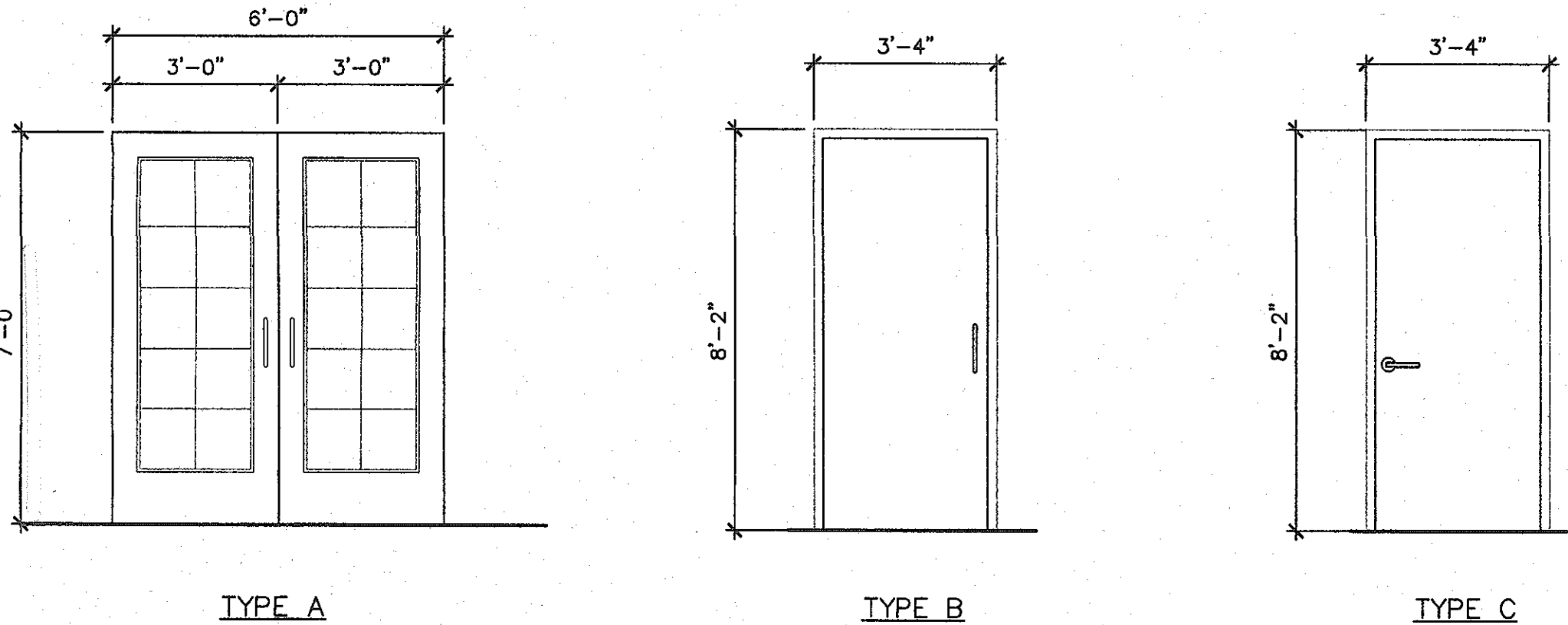
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PRESIDENT DRIVE
BOISE, IDAHO

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DATE	5/5/06
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SHEET	A7.1

DOOR SCHEDULE										
DOOR #	LOCATION	SIZE	PAIR	ELEV.	TYPE	FINISH	GLASS	FRAME	HDWE. GROUP	REMARKS
100	OFFICE	3'-0" x 8'-0"	-	B	S.C. WOOD	STAIN	-	K.D. ALUM.	3	
101	OFFICE	3'-0" x 8'-0"	-	B	S.C. WOOD	STAIN	-	K.D. ALUM.	3	
103	BREAK ROOM	3'-0" x 8'-0"	-	B	S.C. WOOD	STAIN	-	K.D. ALUM.	4	
104	MEN	3'-0" x 8'-0"	-	C	S.C. WOOD	STAIN	-	K.D. ALUM.	2	
105	WOMEN	3'-0" x 8'-0"	-	C	S.C. WOOD	STAIN	-	K.D. ALUM.	2	
106	COMP.	3'-0" x 8'-0"	-	B	S.C. WOOD	STAIN	-	K.D. ALUM.	6	
107	UTILITY	3'-0" x 8'-0"	-	B	S.C. WOOD	STAIN	-	K.D. ALUM.	6	
109	WAITING	3'-0" x 7'-0"	X	A	ALUM.	BRONZ. ANOD.	1/4" CLR.	ALUM.	1	TEMPERED
110	HALL	3'-0" x 7'-0"	-	B	H.M.	PAINT	1" INSUL.	H.M.	5	TEMPERED TRANSOM

WINDOW SCHEDULE					
WINDOW TYPE	SIZE	MATERIAL	FINISH	GLASS	REMARKS
A	10'-0" x 9'-0"	ALUMINUM	CLR. ANODIZED	1" INSUL.	TEMPERED GLAZING
B	6'-6" x 6'-0"	VINYL		1" INSUL.	
C	2'-10" x 1'-10"	VINYL		1" INSUL.	
D	5'-6" x 6'-0"	VINYL		1" INSUL.	
E	4'-0" x 4'-0"	HOLLOW METAL	PRIME/ PAINT	1" INSUL.	

DOOR TYPES



DOOR HARDWARE SCHEDULE

HARDWARE SET NO. 1 -- DOOR NO. 109

- 1 ENTRANCE LEVER LOCKSET W/ PANIC PUSH BAR
- 1 TOP PIVOT - 3/4" OFFSET
- 1 INTERMEDIATE PIVOT
- 1 BOTTOM PIVOT
- 1 1" DIA. OFFSET PUSH/PULL BAR
- 1 CLOSER
- 1 CLOSER MOUNTING PLATE
- 1 THRESHOLD
- 1 PERIMETER WEATHER STRIP
- 1 DOOR BOTTOM/SWEEP
- 1 DECAL - "THIS DOOR TO REMAIN UNLOCKED. . . PER 1997 UBC 1003.3.1.8

HARDWARE SET NO. 2 -- DOOR NO. 104, 105

- 1 PUSH / PULL PLATE
- 3 STANDARD WEIGHT HINGE
- 1 CLOSER
- 1 WALL STOP
- 1 SIGN ("MEN" OR "WOMEN" AS NEEDED)
- 1 S.S. KICK PLATE

HARDWARE SET NO. 3 -- DOOR NO. 100, 101

- 1 OFFICE LOCK SET
- 3 STANDARD WEIGHT HINGE
- 1 WALL STOP

HARDWARE SET NO. 4 -- DOOR NO. 103

- 3 STANDARD WEIGHT HINGE
- 1 PASSAGE LATCH
- 1 WALL STOP
- 1 S.S. KICKPLATE

HARDWARE SET NO. 5 -- DOOR NO. 110A

- 1 ENTRANCE LOCK SET
- 3 H.W. NON-FERROUS HINGE (N.R.P.)
- 1 CLOSER
- 1 THRESHOLD
- 1 DOOR SWEEP
- 1 PC GASKETING 36"
- 2 PC GASKETING 84"

HARDWARE SET NO. 6 -- DOOR NO. 106, 107

- 3 STANDARD WEIGHT HINGE
- 1 STOREROOM LOCKSET
- 1 DOOR STOP
- 1 CLOSER W/HOLDOPEN

DOOR/WINDOW NOTES

A. EXIT DOORS SHALL BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT. KEY-LOCKING HARDWARE MAY BE USED ON THE MAIN EXIT WHEN THE MAIN EXIT CONSISTS OF A SINGLE DOOR OR PAIR OF DOORS, IF THERE IS A SIGN STATING "THIS DOOR TO REMAIN UNLOCKED WHEN BUILDING IS OCCUPIED." WHEN UNLOCKED, DOOR(S) MUST SWING WITHOUT THE OPERATION OF ANY LATCHING DEVICE.

B. MANUALLY OPERATED EDGE OR SURFACE-MOUNTED FLUSH BOLTS AND SURFACE BOLTS ARE PROHIBITED.

C. THE UNLATCHING OF ANY LEAF OF ANY EXIT DOOR SHALL NOT REQUIRE MORE THAN ONE OPERATION.

D. HANDLES, PULLS, LATCHES, AND LOCKS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST TO OPERATE.

E. ALL GLAZING IN HAZARDOUS LOCATIONS IS REQUIRED TO BE OF SAFETY GLAZING MATERIAL. GLAZING IN INGRESS AND EGRESS DOORS AND GLAZING IN FIXED OR OPERABLE PANELS ADJACENT TO A DOOR WHERE THE NEAREST EXPOSED EDGE OF THE GLAZING IS WITHIN A 24-INCH ARC OF EITHER VERTICAL EDGE OF THE DOOR IN A CLOSED POSITION. PER 2003 IBC SECTION 2406.3 (6).

F. ALL METAL DOOR FRAMES TO BE PROVIDED WITH SILENCERS.

G. ALL EXTERIOR HOLLOW CORE METAL DOORS ARE TO BE INSULATED. DOOR AND FRAME TO BE SHOP PRIMED AND PAINTED.

H. ALL DOOR HARDWARE IS TO BE COMMERCIAL GRADE AND QUALITY.

I. ALL DOOR HARDWARE TO BE US26D "SATIN CHROMIUM FINISH"

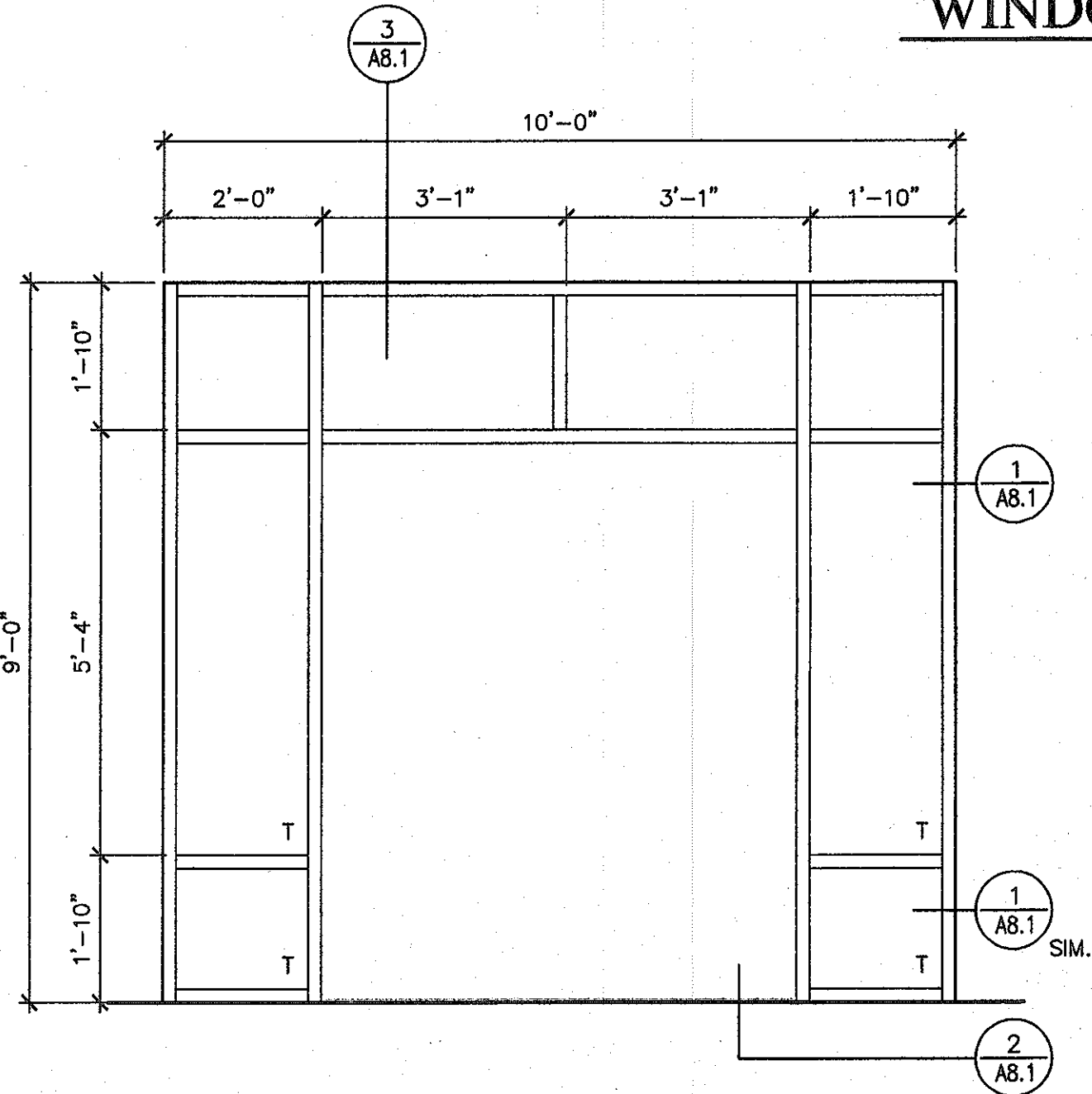
J. GLAZING SYSTEM FINISH TO BE REVIEWED AND APPROVED BY ARCHITECT PRIOR TO ORDERING. SUBMIT SAMPLES FOR SELECTION AND APPROVAL.

L. FIELD VERIFY ALL WINDOW OPENING DIMENSIONS.

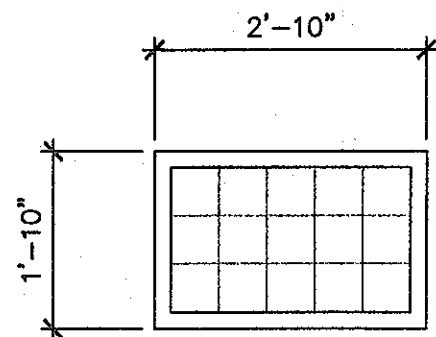
M. 1" INSULATED GLAZING TO BE LOW-E GLASS IN THERMALLY BROKEN FRAMES.

N. MINIMUM GLASS THICKNESS TO BE 1/4".

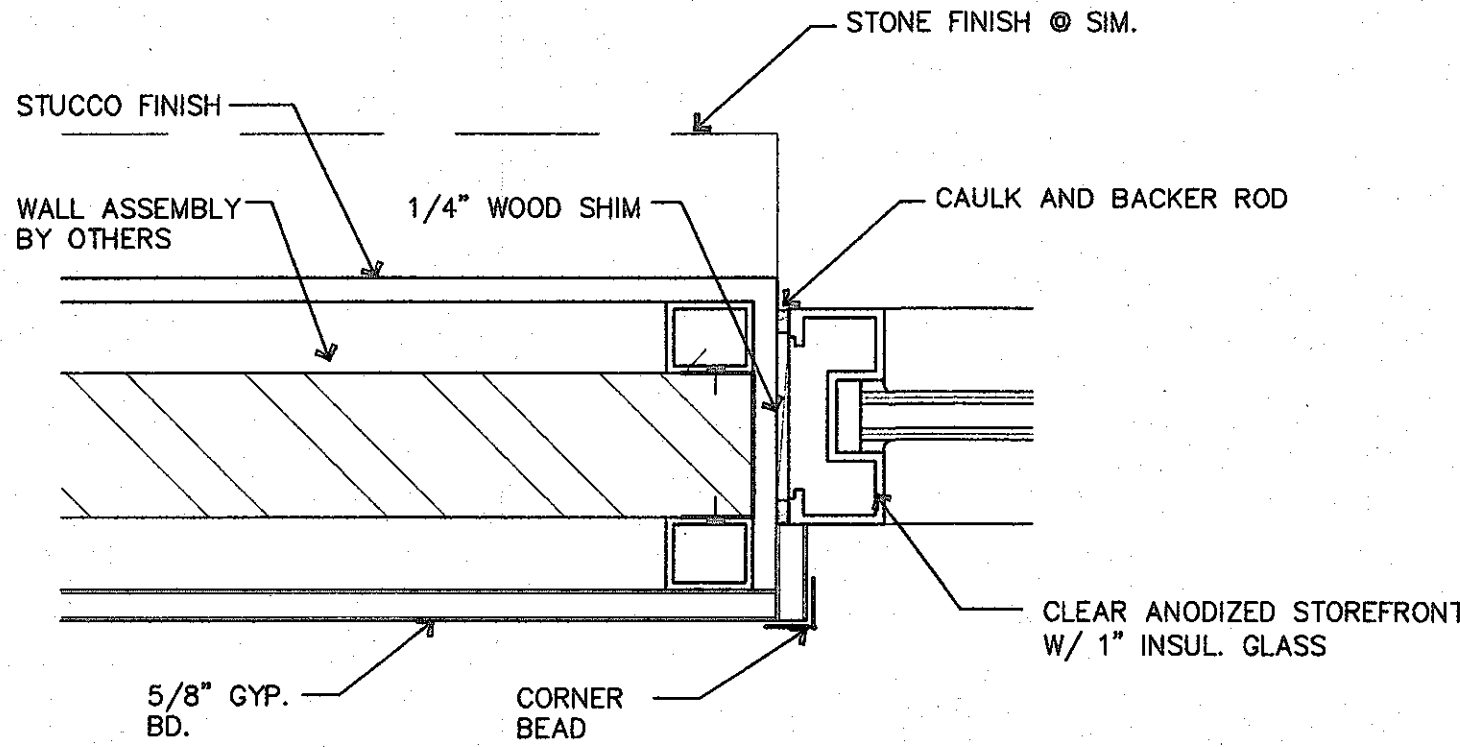
WINDOW TYPES



TYPE A

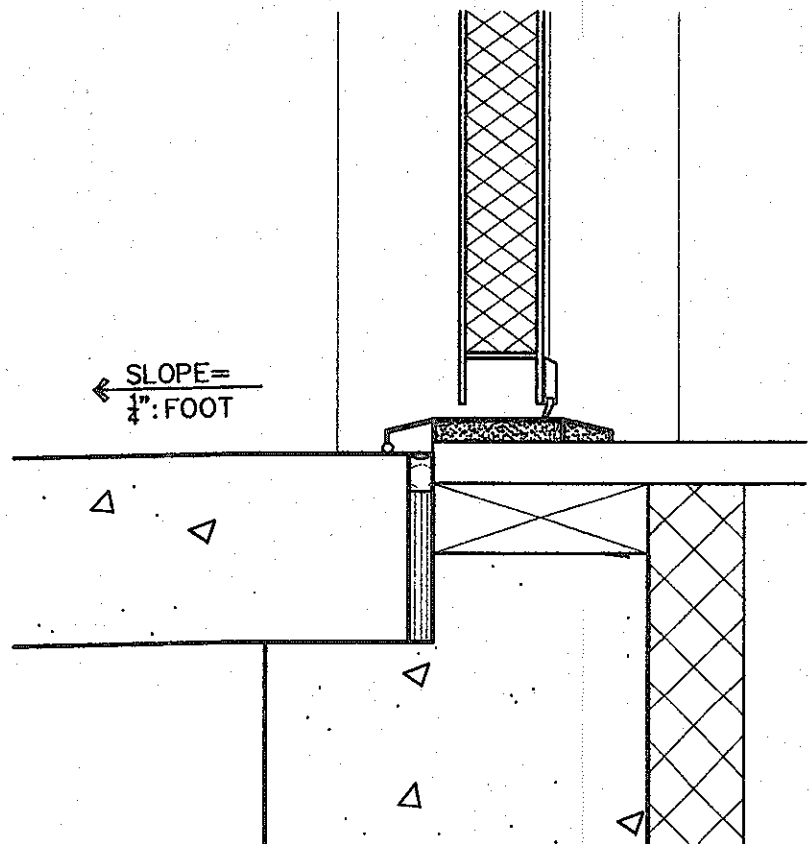


TYPE C



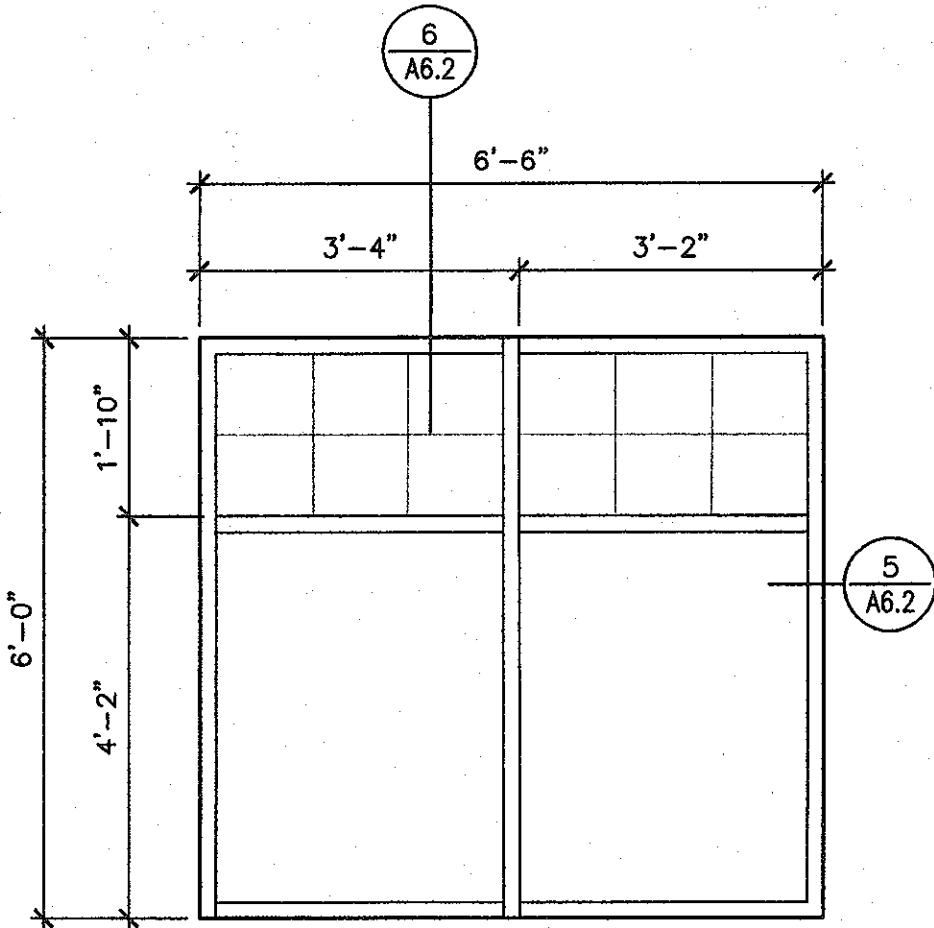
1. ALUM. JAMB DETAIL

SCALE: 3"=1'-0"

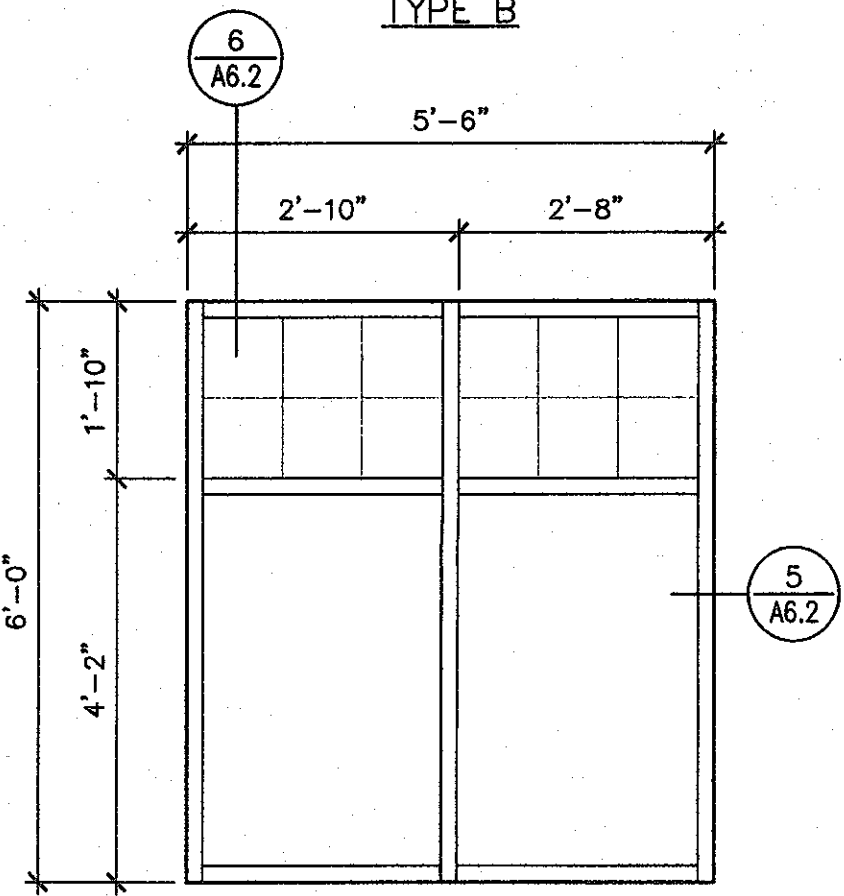


2. ALUM. STOREFRONT @ DOOR

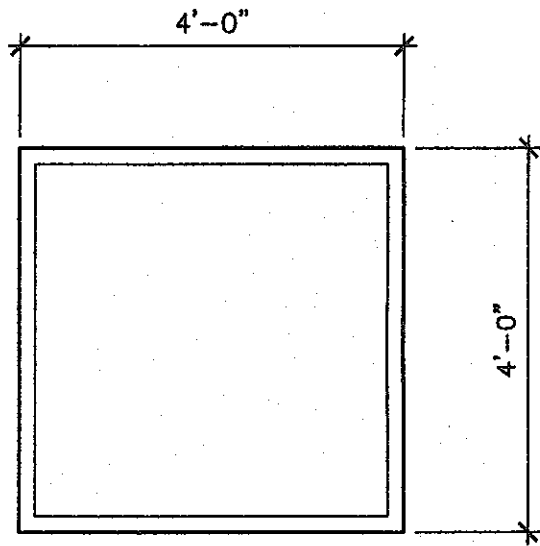
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TYPE B

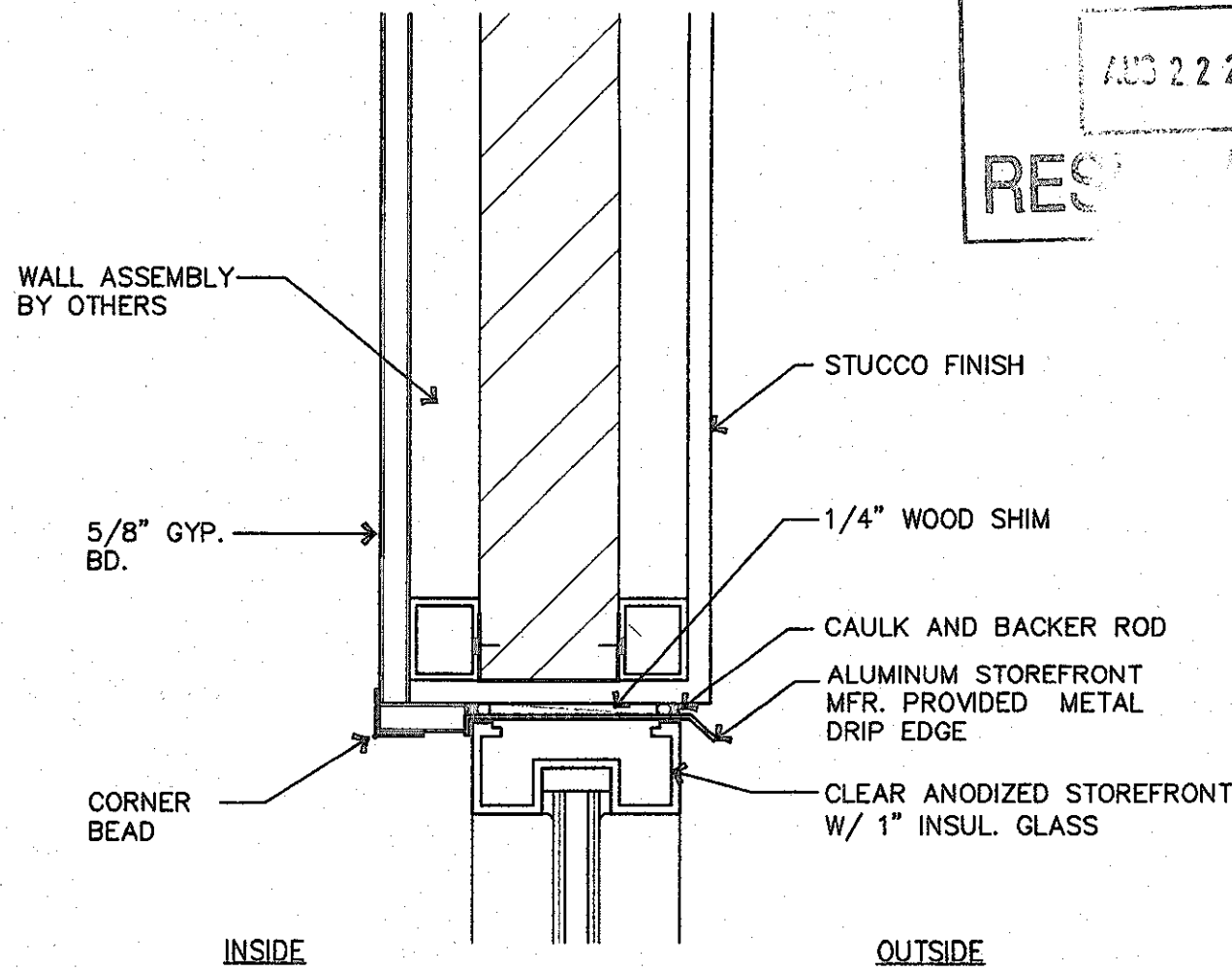


TYPE D



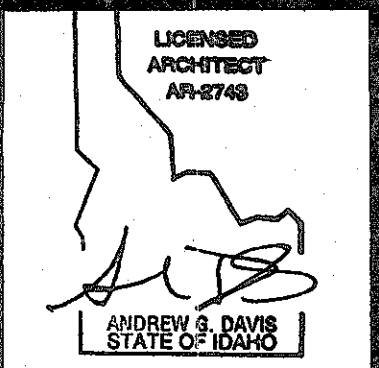
TYPE E

HOLLOW



3. ALUM. HEAD DETAIL

SCALE: 3"=1'-0"



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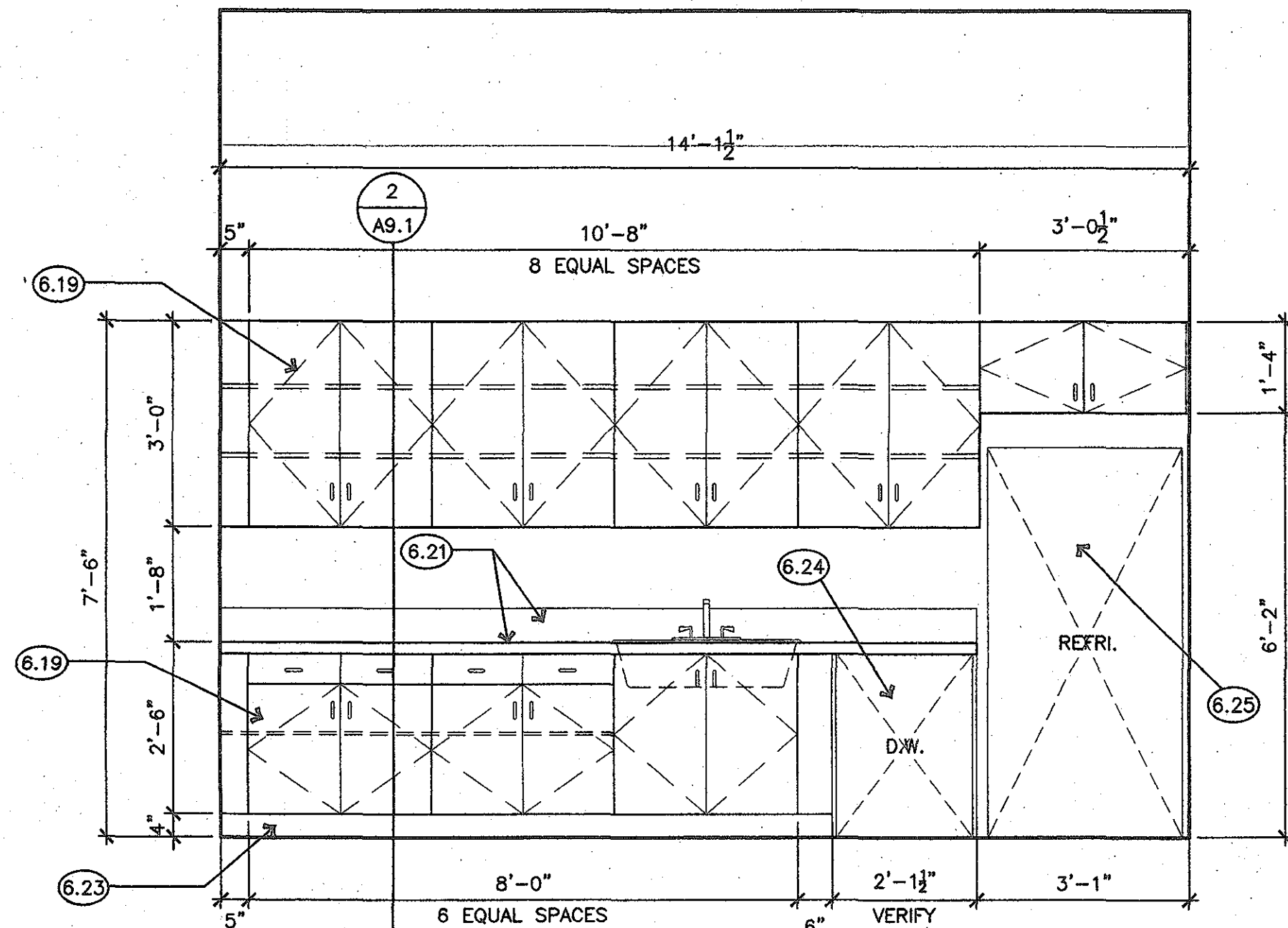
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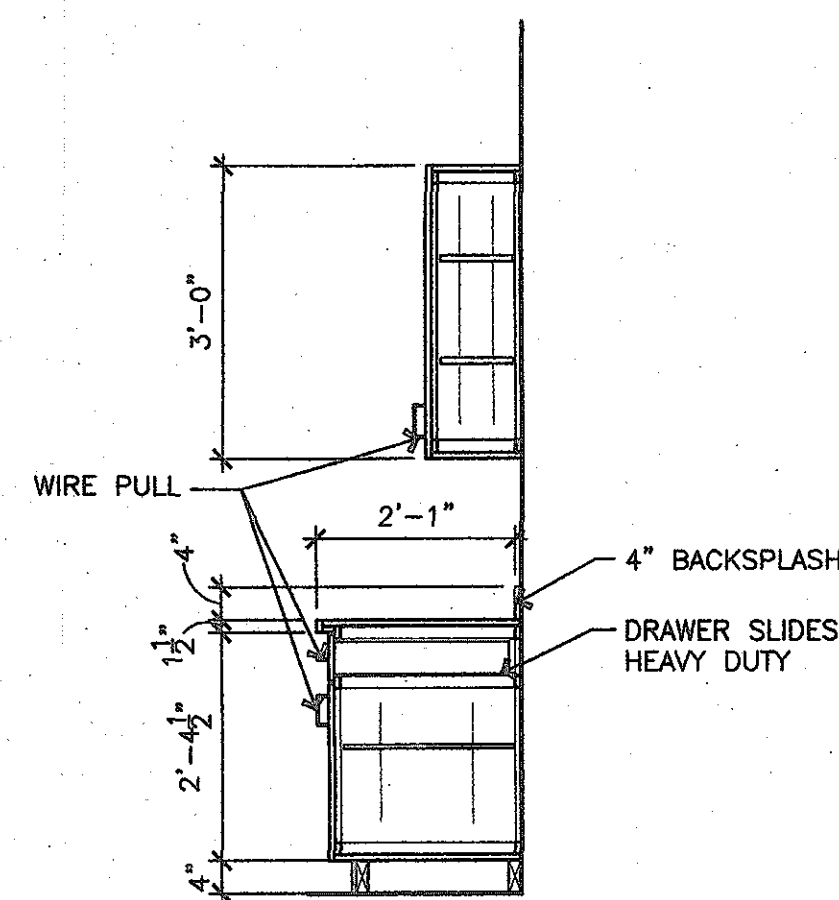
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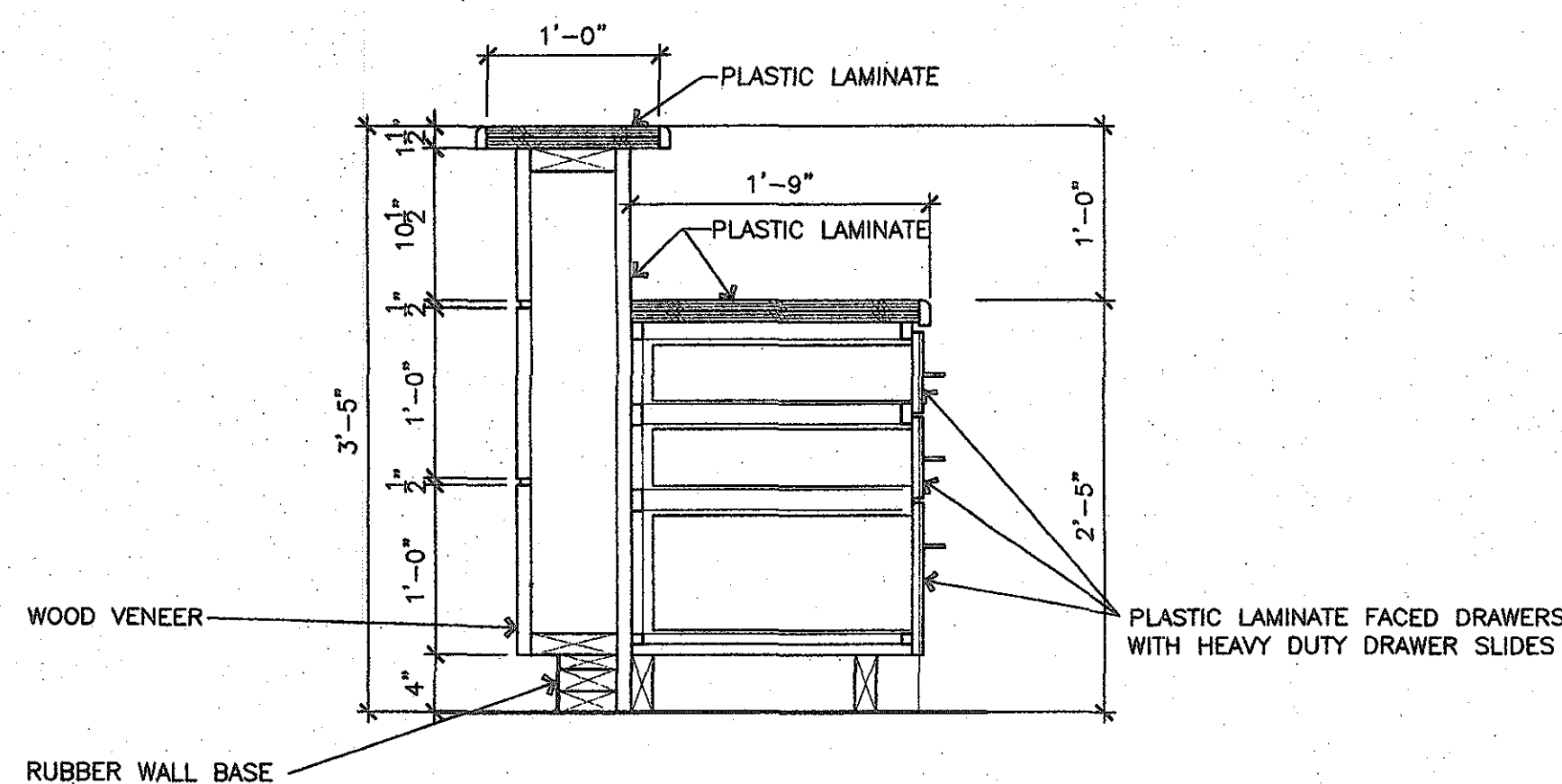
1. BREAKROOM COUNTER ELEVATION

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



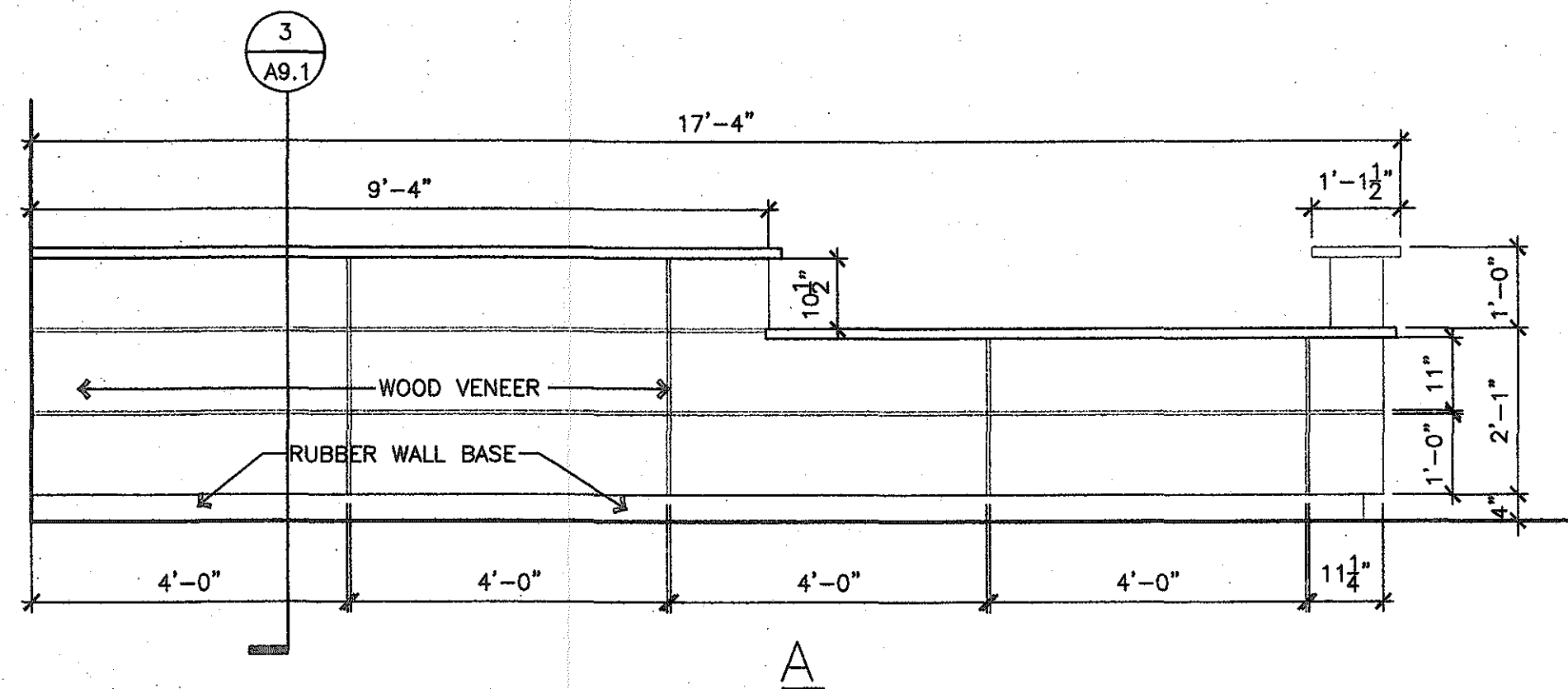
2. BREAKROOM COUNTER SECTION

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



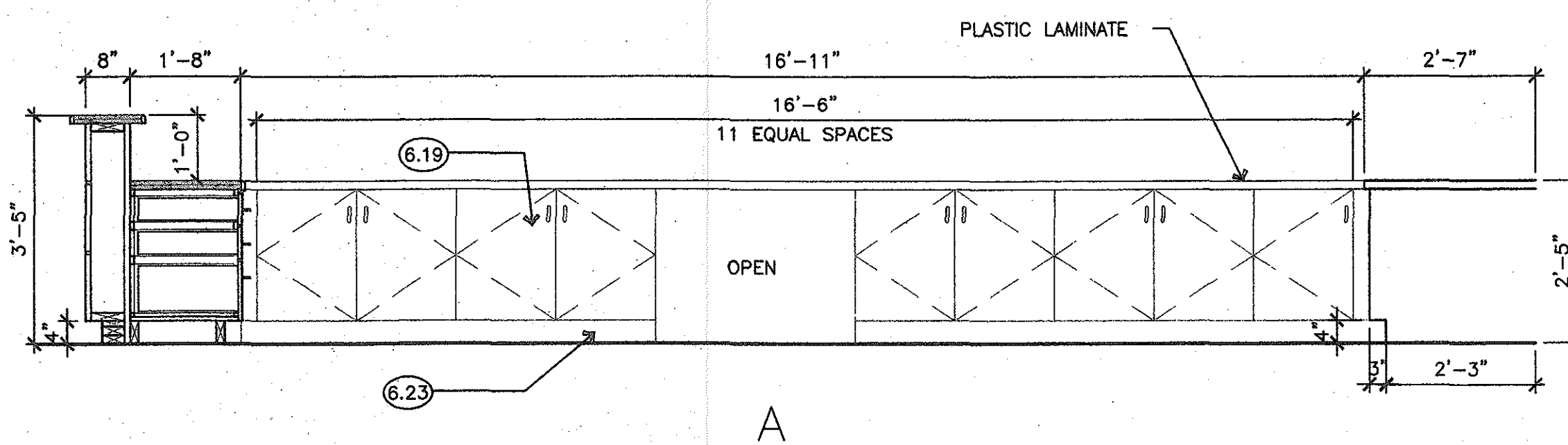
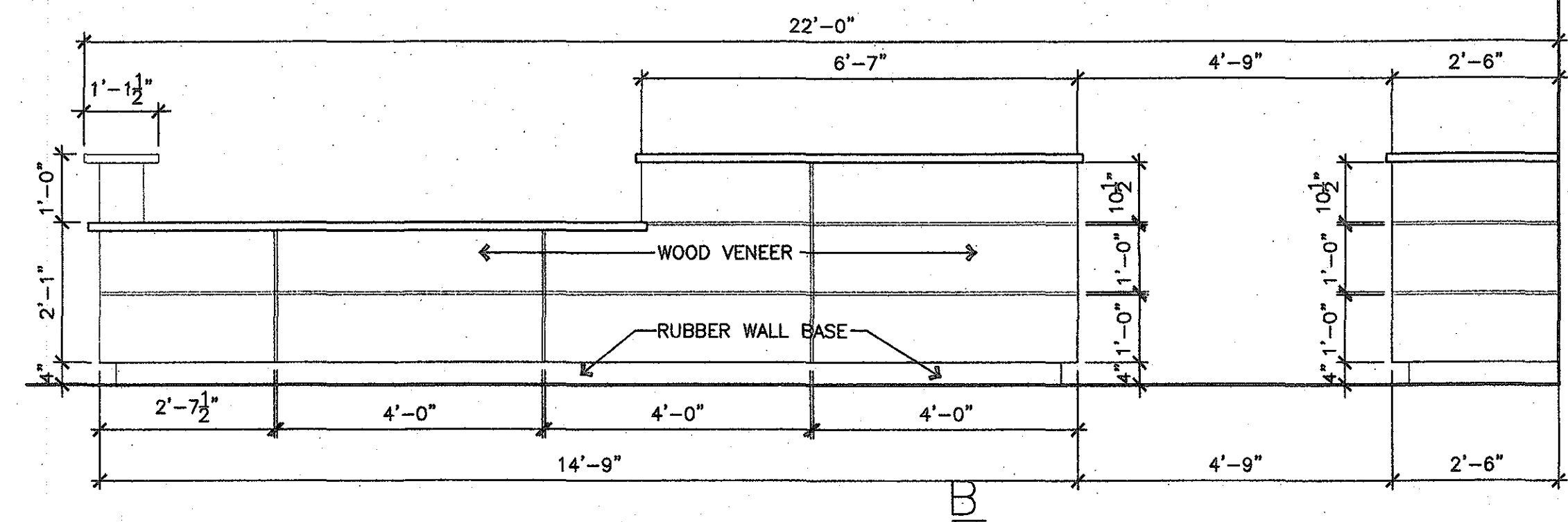
3. RECEPTION COUNTER SECTION

SCALE: 1"=1'-0" **NOTE: RECEPTION COUNTER BY OWNER.**



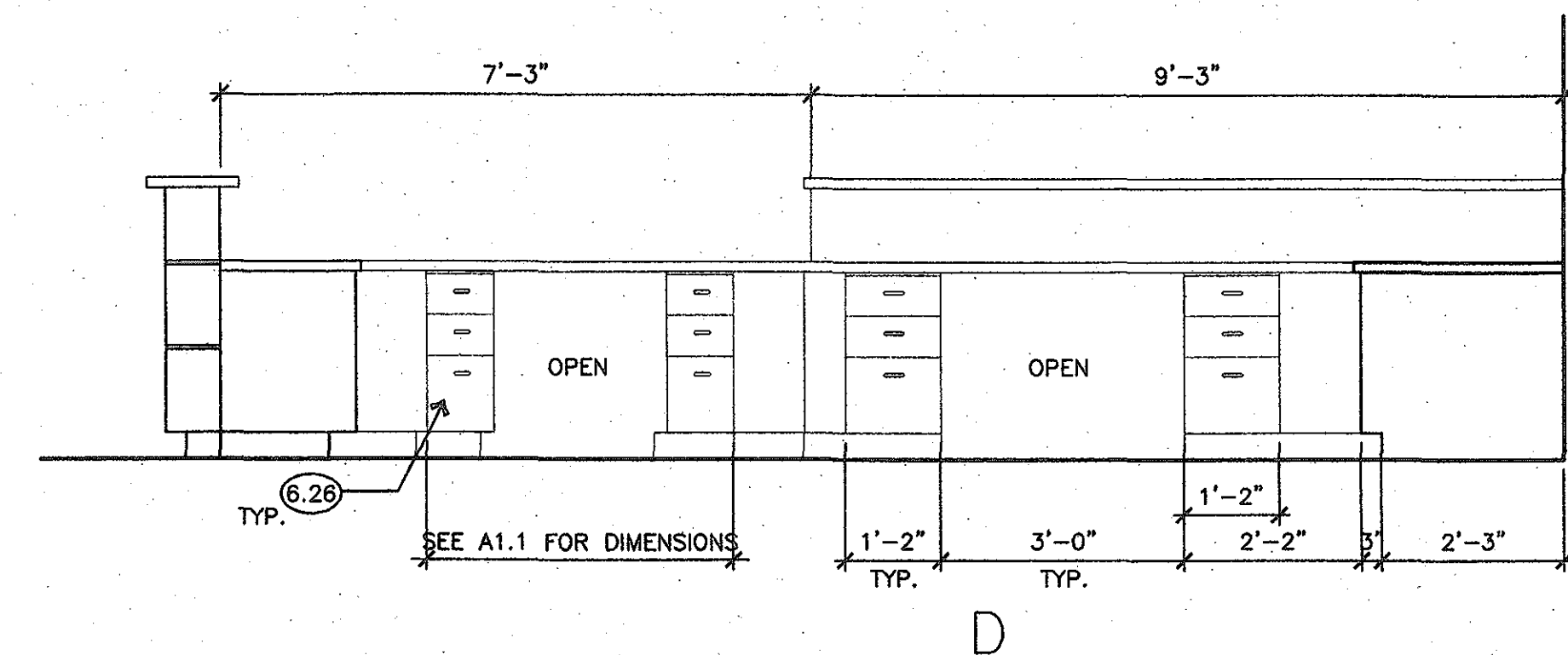
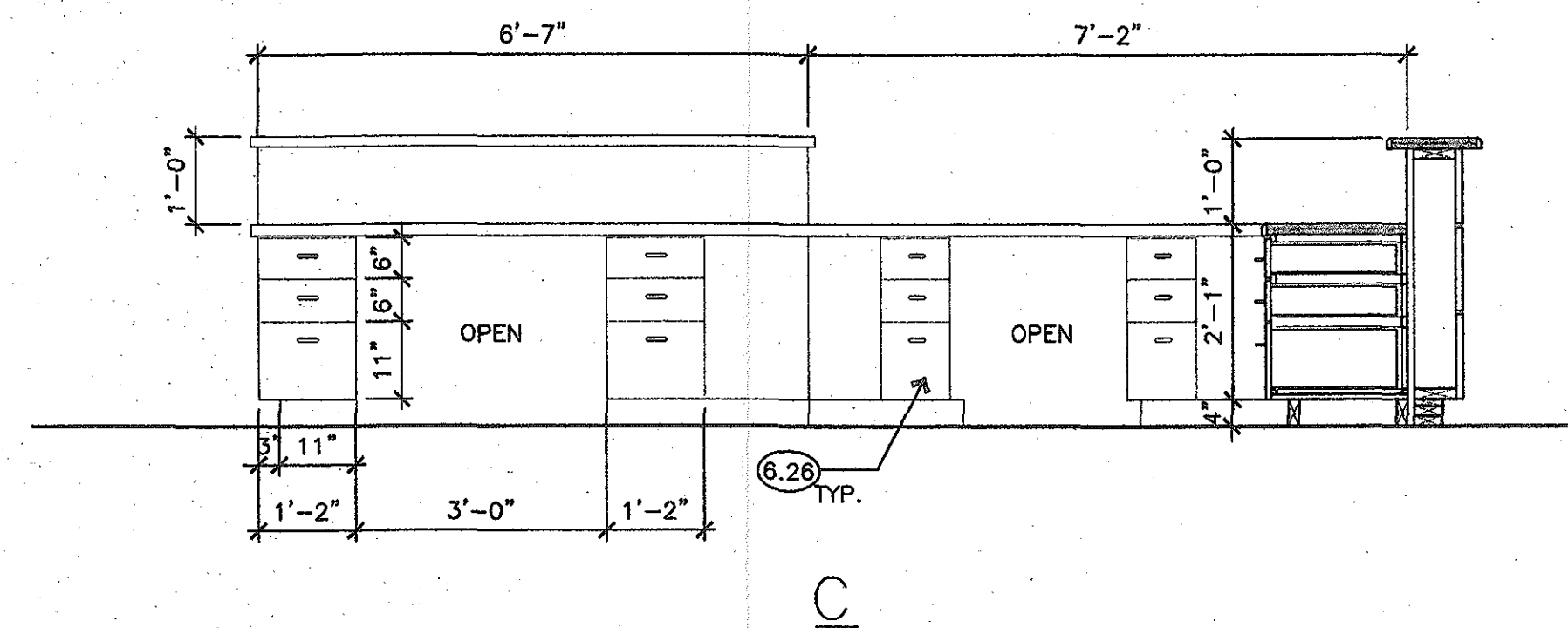
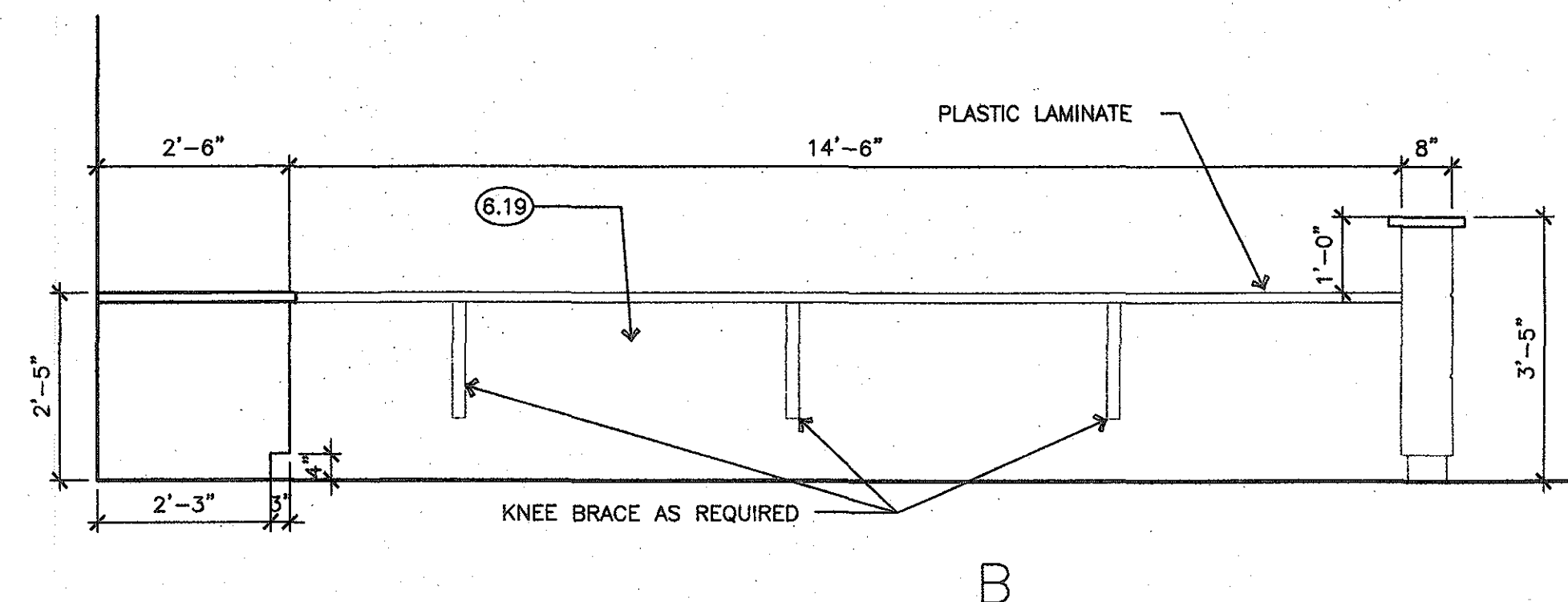
4. RECEPTION COUNTER ELEVATIONS

SCALE: 1/2"=1'-0" **NOTE: RECEPTION COUNTER BY OWNER.**

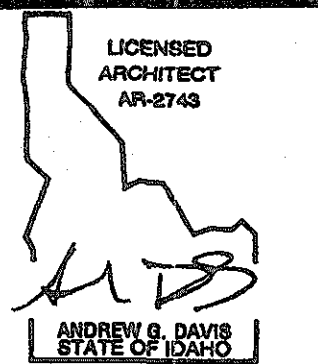


5. RECEPTION COUNTER ELEVATIONS

SCALE: 1/2"=1'-0" **NOTE: RECEPTION COUNTER BY OWNER.**



ROOM FINISH SCHEDULE										
RM. NO.	ROOM NAME	FLOOR	BASE	WALLS				CEILING	REMARKS	RM. NO.
				NORTH	EAST	SOUTH	WEST			
100	OFFICE	CPT	4" CPT	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	SAT		100
101	OFFICE	CPT	4" CPT	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	SAT		101
102	WORK AREA	CPT	4" CPT	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	SAT		102
103	BREAK ROOM	CPT	4" CPT	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	SAT		103
104	RESTROOM (MEN)	TILE	6" TILE	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	P. LAM WAINSCOT TO 48" A.F.F. ON WET WALLS	104
105	RESTROOM (WOMEN)	TILE	6" TILE	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	P. LAM WAINSCOT TO 48" A.F.F. ON WET WALLS	105
106	COMP.	CPT	4" CPT	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	SAT		106
107	UTILITY	CPT	4" CPT	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	SAT		107
108	RECEPTION	TILE	4" CPT	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	SAT		108
109	WAITING	CPT	4" CPT	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	SAT		109
110	HALL	CPT	4" CPT	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	SAT		110



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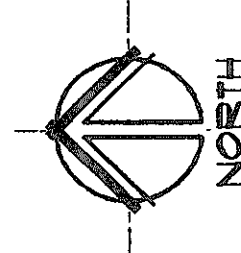
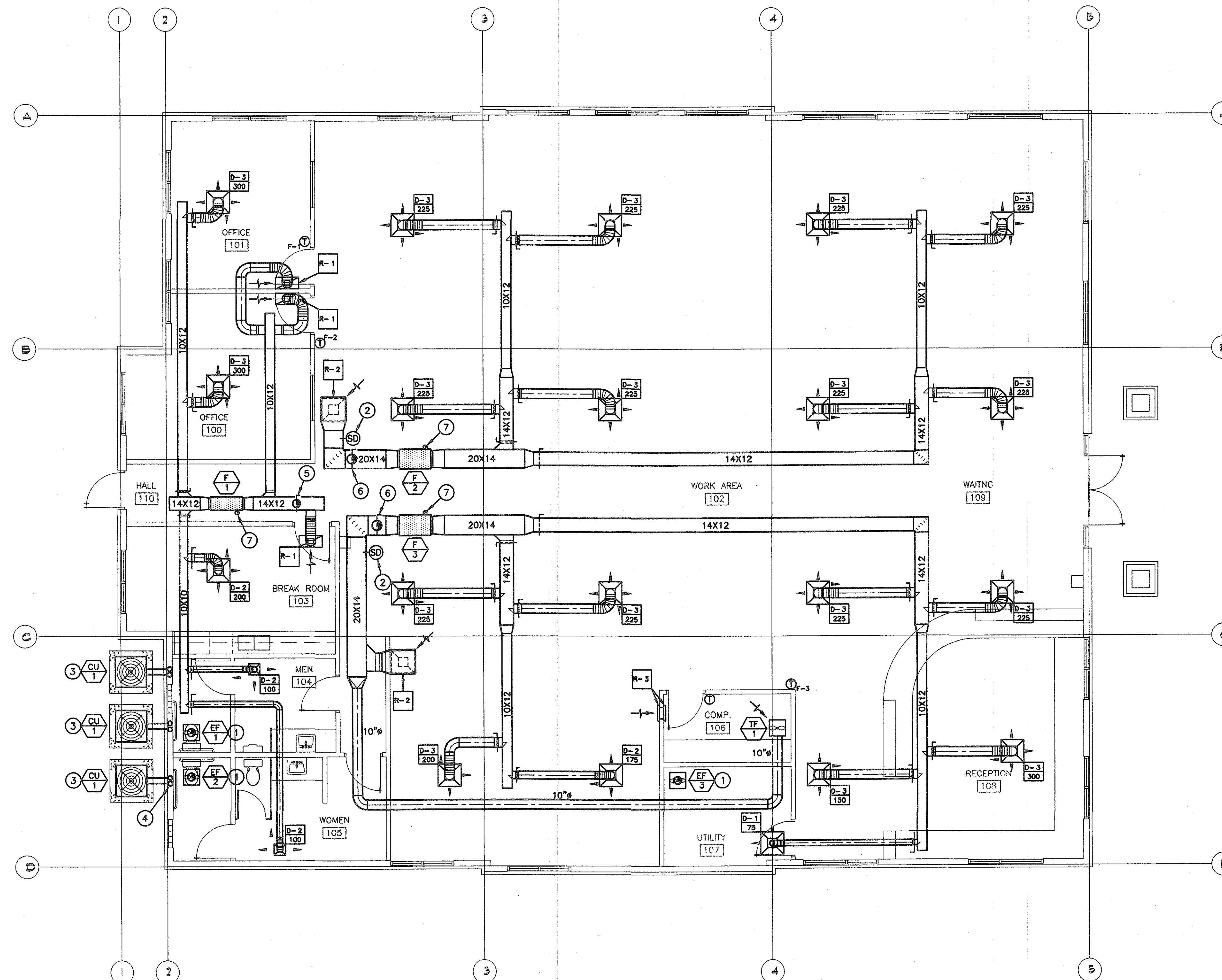
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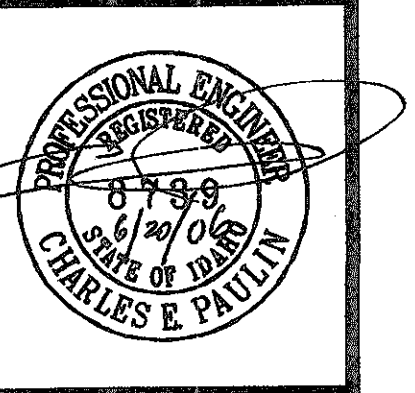
MECHANICAL FLOOR PLAN
SCALE: 3/16"=1'-0"

KEYED NOTES:

- SYMBOL USED FOR NOTE CALLOUT.
1. CEILING CABINET FAN WITH HANGING VIBRATION ISOLATORS AND FLEXIBLE CONNECTION AT OUTLET. ROUTE 8" DIAMETER EXHAUST DUCT UP THRU ROOF AND TERMINATE WITH ROOF CAP.
 2. SMOKE DUCT DETECTOR IN RETURN DUCT SHALL SHUT DOWN UNIT UPON DETECTION OF SMOKE. SMOKE DETECTOR SHALL BE PROVIDED AND WIRED BY ELECTRICAL CONTRACTOR AND MOUNTED BY MECHANICAL CONTRACTOR.
 3. OUTDOOR CONDENSING UNIT MOUNTED ON A 6" THICK CONCRETE PAD. DO NOT LOCATE UNIT UNDER A BUILDING OVERHANG OR ROOF WATER-DRIP LINE.
 4. ROUTE REFRIGERANT LINE FROM CONDENSING UNITS TO INDOOR UNIT AS SHOWN ON HVAC PLAN. INSULATE ALL SUCTION LINES WITH FLEXIBLE FOAM PIPE INSULATION. (TYPICAL)
 5. 8" FRESH AIR DUCT UP TO ROOF CAP. BALANCE TO 140 CFM.
 6. 10" FRESH AIR DUCT UP TO ROOF CAP. BALANCE TO 300 CFM.
 7. EXTEND FLUE UP THRU ROOF TO ROOF CAP. SEE DETAIL SHEET M2.1.

GENERAL NOTES:

- A. HVAC CONTRACTOR SHALL INSTALL ALL HVAC IN ACCORDANCE WITH THE INTERNATIONAL MECHANICAL CODE (IMC) AND THE LOCAL ADMINISTRATIVE AUTHORITY.
- B. HVAC CONTRACTOR SHALL RECEIVE PRIOR APPROVAL FROM THE STRUCTURAL ENGINEER BEFORE MAKING CUTS THROUGH ANY STRUCTURAL MEMBERS.
- C. HVAC CONTRACTOR SHALL COORDINATE INSTALLATION WITH CONSTRUCTION SUPERVISOR AND WITH ALL OTHER TRADES TO AVOID CONFLICTS.
- D. ALL HVAC EQUIPMENT AND ACCESSORIES SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
- E. THE MECHANICAL CONTRACTOR SHALL VERIFY MOTOR VOLTAGES WITH THE ELECTRICAL DRAWINGS BEFORE ORDERING MOTORIZED EQUIPMENT AND CONTROLS.
- F. MAINTAIN MINIMUM OF 10'-0" DISTANCE BETWEEN ALL FRESH AIR INTAKES AND EXHAUST OR GAS FLUE DISCHARGES.
- G. ALL PVC EQUIPMENT VENTS, PLUMBING VENTS, FLUE PIPES, ROOF EXHAUSTS AND ROOF INTAKES THAT TERMINATE ABOVE THE ROOF SHALL BE PRIME COATED AND PAINTED TO MATCH THE ROOF COLOR.



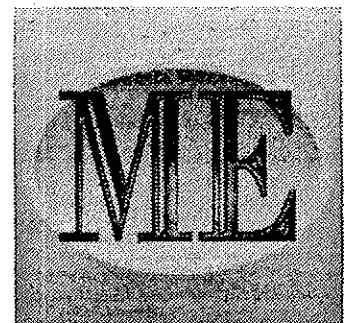
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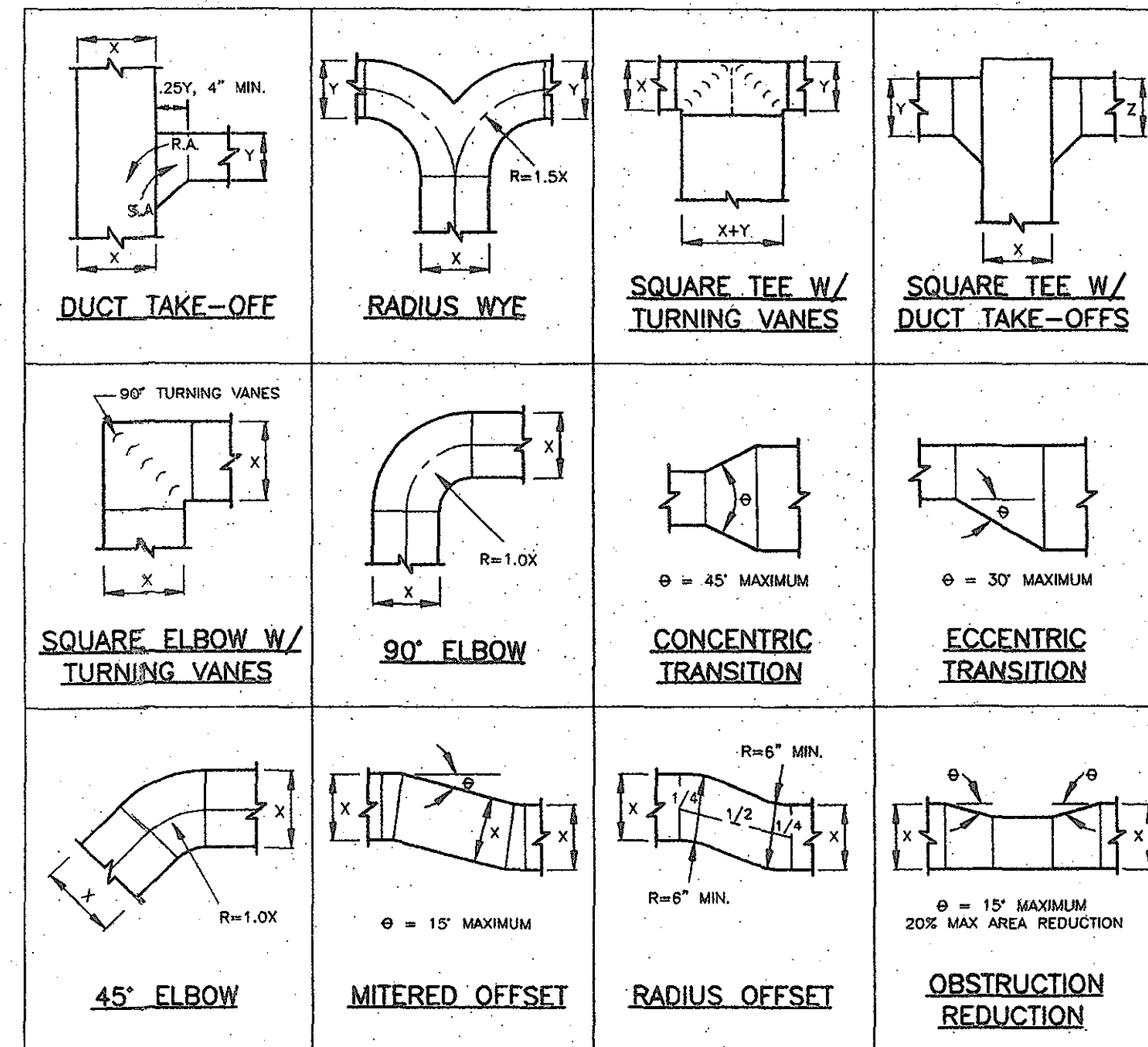
PROPOSED DEVELOPMENT FOR:
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COX
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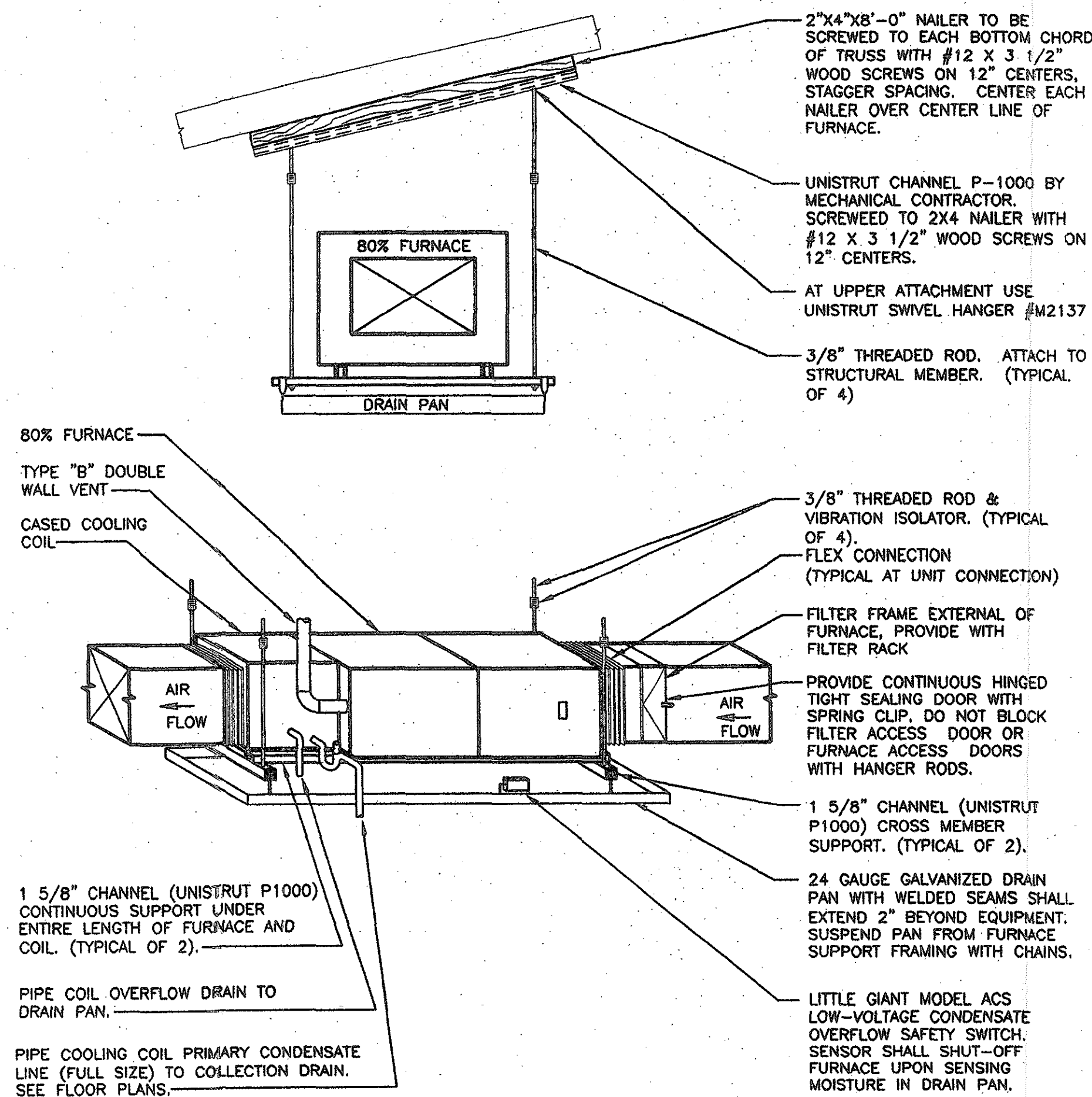
DRAWN	GFB
DATE	6/7/06
CHECKED	CEP
JOB NO.	05259.03
SHEET	M1.1



NOTE:
ALL DUCTWORK TRANSITIONS SHALL BE CONSTRUCTED AND INSTALLED TO SMACNA AND THE ABOVE NOTED STANDARDS. ANY DEVIATIONS SHALL BE COORDINATED WITH THE ENGINEER.

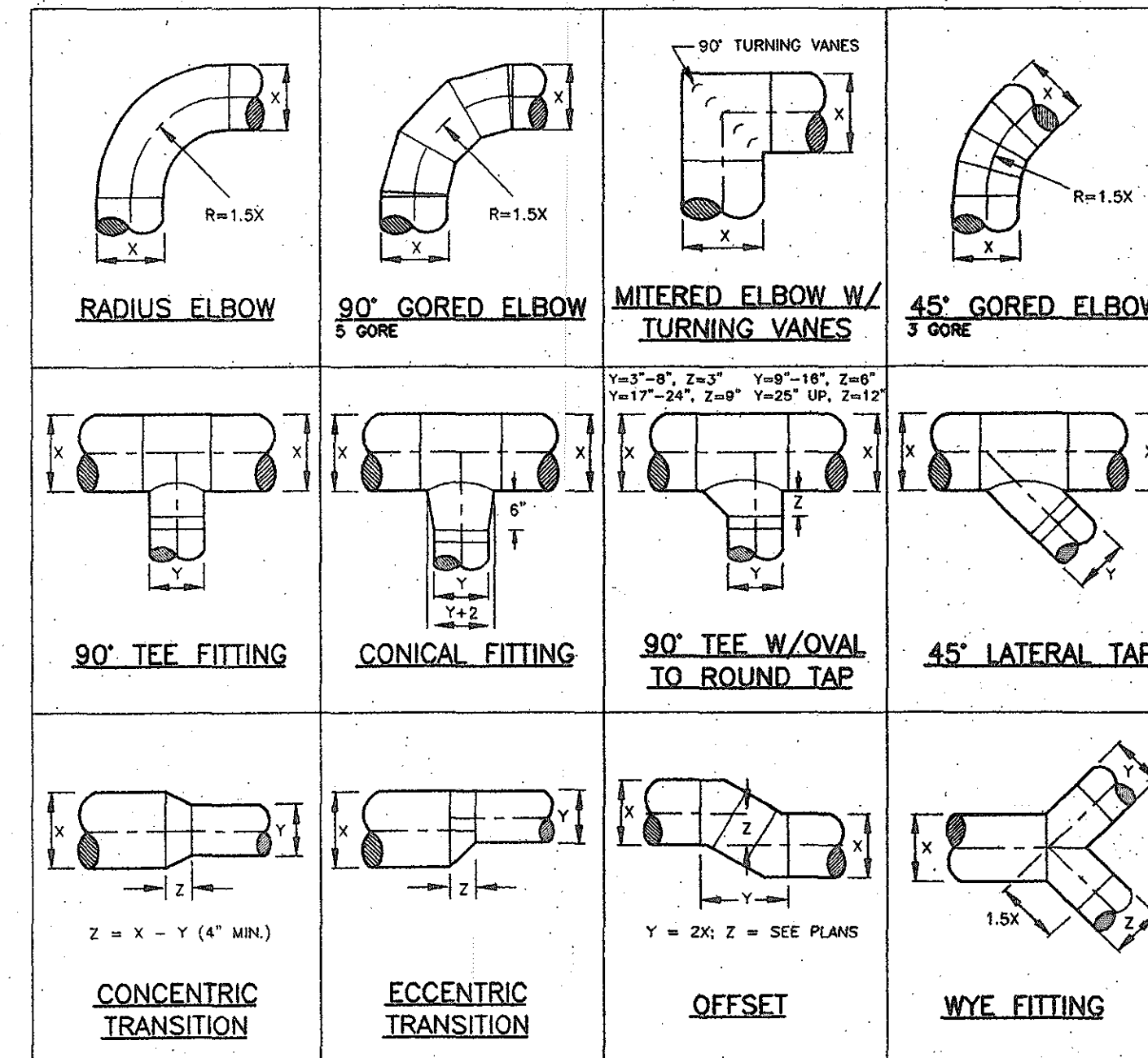
RECTANGULAR DUCT FITTING DETAILS

NOT TO SCALE



80% HORIZONTAL FURNACE DETAIL

NOT TO SCALE



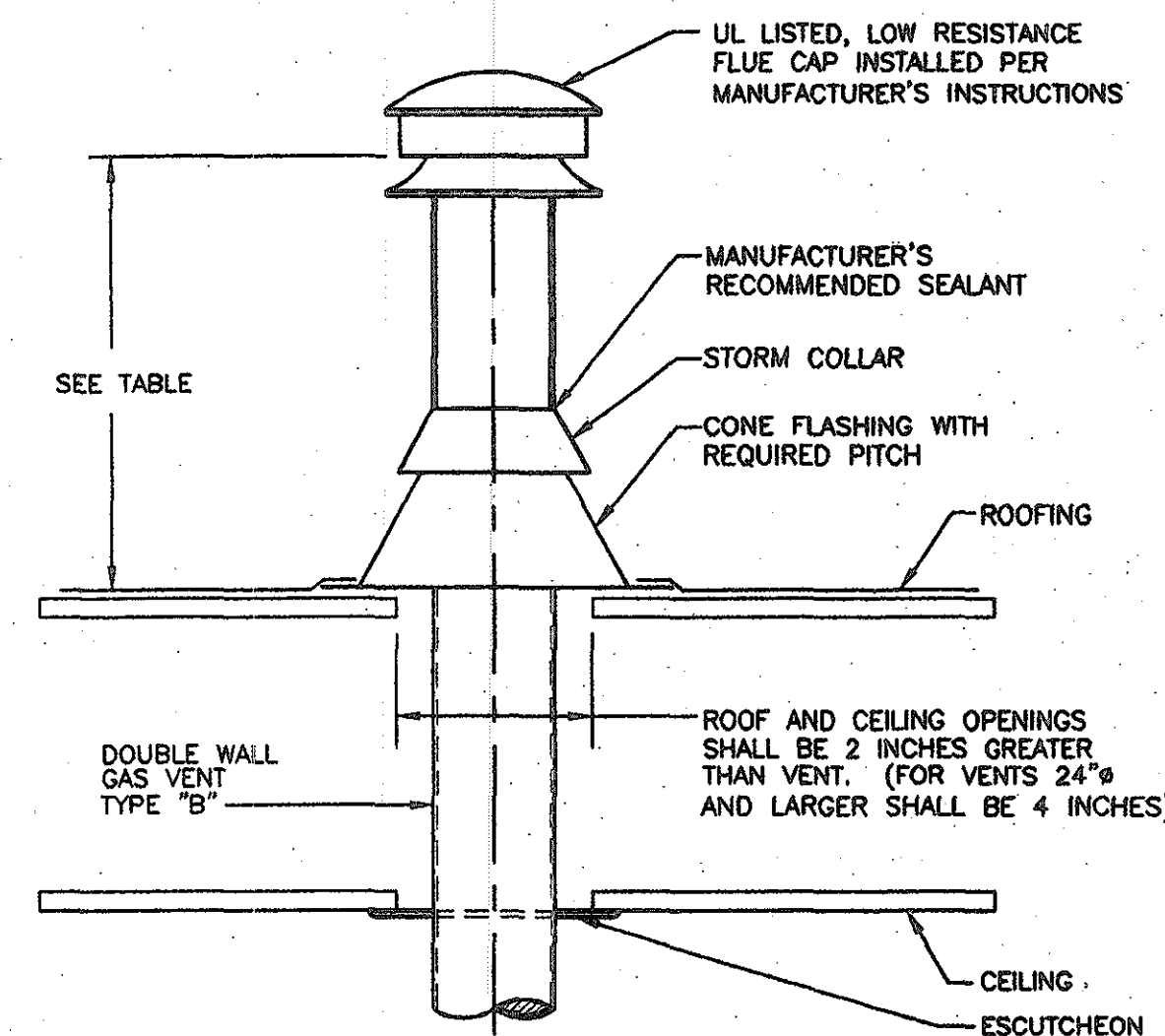
NOTE:
ALL DUCTWORK TRANSITIONS SHALL BE CONSTRUCTED AND INSTALLED TO SMACNA AND THE ABOVE NOTED STANDARDS. ANY DEVIATIONS SHALL BE COORDINATED WITH THE ENGINEER.

ROUND DUCT FITTING DETAILS

NOT TO SCALE

ROOF SLOPE	MIN. HEIGHT FROM ROOF TO LOWEST DISCHARGE OPENING
FLAT to 6/12	1'-0"
OVER 6/12 to 7/12	1'-3"
OVER 7/12 to 8/12	1'-6"
OVER 8/12 to 9/12	2'-0"
OVER 9/12 to 10/12	2'-6"
OVER 10/12 to 11/12	3'-3"
OVER 11/12	SEE CODE

TYPE "B" GAS VENTS WITH LISTED VENT CAPS 12" IN SIZE OR SMALLER SHALL BE PERMITTED TO BE TERMINATED IN ACCORDANCE WITH TABLE, PROVIDED THEY ARE LOCATED AT LEAST 8 FEET FROM A VERTICAL WALL OR SIMILAR OBSTRUCTION. ALL OTHER TYPE "B" GAS VENTS SHALL TERMINATE NOT LESS THAN 2 FEET ABOVE THE HIGHEST POINT WHERE THEY PASS THROUGH THE ROOF AND AT LEAST 2 FEET HIGHER THAN ANY PORTION OF A BUILDING WITHIN 10 FEET.



GAS FLUE DETAIL

NOT TO SCALE

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(208) 433-0332 fx (208) 433-0338

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410 S. Cleghard St., Suite 134
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208.384.0585
www.musgrovepa.com
OVER 25 YEARS OF EXCELLENCE
project number: 06-134

PROFESSIONAL ENGINEER
REGISTERED
8/7/88
STATE OF IDAHO
CHARLES E. PAULIN

DATE	REVISIONS	NO.

1000 S. ALLANTE ST.
SUITE 100
BOISE, IDAHO 83709
(208) 336-8370
FAX (208) 336-8380

BPS
ARCHITECTS

PROPOSED DEVELOPMENT FOR:
RAYCO
PRESIDENT DRIVE
BOISE, IDAHO

DRAWN GPB
DATE 6/1/06
CHECKED CEP
JOB NO. 05259.03
SHEET
M2.1

DIFFUSER SCHEDULE				
SYMBOL	NOMINAL SIZE	NECK/RUNOUT SIZE	CFM RANGE	REMARKS
	6x6	6"ø	0-90	①②③④⑤
	9x9	8"ø	90-200	①②③④⑤
	12X12	10"ø	200-350	①②③④⑤

REMARKS:

- SIZES BASED ON TITUS MODEL TDC SERIES. APPROVED MANUFACTURERS INCLUDE ANEMOSTAT, CARNES, J&J REGISTER, NAILOR, TUTTLE & BAILEY, KRUEGER AND PRICE.
- SIZES BASED ON A MAXIMUM NC LEVEL OF 25.
- ALL DIFFUSERS LOCATED IN LAY-IN CEILING AREAS SHALL BE BORDER TYPE 3 AND BE MOUNTED IN MANUFACTURER PROVIDED 24"x24" PANELS. ALL DIFFUSERS LOCATED IN HARD CEILING AREAS SHALL BE BORDER TYPE 6 (BEVELED) SURFACE MOUNTED. SEE ARCHITECTURAL PLANS FOR LOCATIONS OF VARIOUS CEILING TYPES.
- SEE HVAC FLOOR PLANS FOR DIRECTIONAL THROW REQUIREMENTS FOR EACH DIFFUSER.
- WHITE FINISH.

RETURN & EXHAUST GRILLE SCHEDULE				
SYMBOL	NOMINAL SIZE	NECK/RUNOUT SIZE	CFM RANGE	REMARKS
	22X10	10"ø	180-300	①②③④
	22X22	22X22	1100-2000	①②③④
	12X10	12X10	325-375	②④⑤

REMARKS:

- SIZES BASED ON TITUS ALUMINUM, 1/2" x 1/2" x 1" SPACING, "EGG-CRATE". PROVIDE SQUARE TO ROUND TRANSITION. APPROVED MANUFACTURERS INCLUDE ANEMOSTAT, CARNES, PRICE, NAILOR, TUTTLE & BAILEY, KRUEGER, AND J&J REGISTER.
- SIZES BASED ON A MAXIMUM NC LEVEL OF 25.
- ALL GRILLES LOCATED IN LAY-IN CEILING AREAS SHALL BE TITUS MODEL 50F WITH PANEL BORDER #3 FRAME, UNLESS OTHERWISE INDICATED. ALL GRILLES LOCATED IN HARD CEILING AREAS SHALL BE TITUS MODEL 50F WITH SURFACE FRAME. REFER TO ARCHITECTURAL PLANS FOR LOCATIONS OF VARIOUS CEILING TYPES. SHEET METAL DUCTWORK VISIBLE BEHIND GRILLE SHALL BE PAINTED FLAT BLACK.
- WHITE FINISH.
- LOW WALL GRILLE SIZES BASED ON TITUS MODEL 33R, HEAVY DUTY STEEL, 14 GAUGE BLADES, 1/2" SPACING, 38" DEFLECTION, ALL-WELDED CONSTRUCTION. APPROVED MANUFACTURERS INCLUDE ANEMOSTAT, CARNES, J&J REGISTER, NAILOR, TUTTLE & BAILEY, KRUEGER, AND PRICE.

SPLIT SYSTEM AIR CONDITIONING UNIT SCHEDULE (80% GAS)																			
SYMBOL	UNIT TYPE	NOMINAL TONS	SUPPLY FAN				COOLING REQUIRED AT 95° OSA, 80° EDB, 62° EWB		GAS HEATING		ELECTRICAL (OUTDOOR UNIT)			OSA CFM	MIN. SEER	REFRIGERANT TYPE/LB-OZ	FURNACE OPERATING WEIGHT (LBS)	MANUFACTURER AND MODEL	REMARKS
			CFM	ESP	HP	V/%	TOTAL MBH	SENSIBLE MBH	INPUT MBH	OUTPUT MBH	MCA	MOCP	V/%						
F1 CU1	MULTIPOISE	2 1/2	1000	.75	1/3	115/1	26.33	26.33	63.0	44.9	18.7	30	208/1	140	13.0 SEER	R22/5.25	125	CARRIER 58STA070-12 WITH MODEL 24ABR330-31 CONDENSING UNIT	①②③④
F2 CU2	MULTIPOISE	5	1800	.75	3/4	115/1	52.81	52.81	84.0	59.8	29.2	50	208/1	300	13.0 SEER	R22/10.13	150	CARRIER 58STA090-20 WITH MODEL 24ABR360-31 CONDENSING UNIT	①②③④
F3 CU3	MULTIPOISE	5	1800	.75	3/4	115/1	52.81	52.81	84.0	59.8	29.2	50	208/1	300	13.0 SEER	R22/10.13	150	CARRIER 58STA090-20 WITH MODEL 24ABR360-31 CONDENSING UNIT	①②③④

- APPROVED ALTERNATE MANUFACTURERS: BRYANT, TRANE, LUXAIRE, AND YORK.
- PROVIDE UNIT WITH MATCHING COOLING COIL, FIELD INSTALLED HARD START FOR SINGLE PHASE UNITS, SHORT CYCLING DEVICE, CRANKCASE HEATER, EXPANSION VALVE, HIGH/LOW PRESSURE SWITCH & LOW AMBIENT CONTROLS (TO O'F). SET FAN MOTOR ON FURNACE TO MAINTAIN A CONSTANT SPEED.
- PROVIDE UNIT WITH CARRIER SEVEN-DAY PROGRAMMABLE AUTO-CHANGEOVER 2 STAGE THERMOSTAT MODEL 33CS250-01 OR EQUAL.
- PROVIDE UNIT WITH MANUFACTURER'S LINE SET.

EXHAUST FAN SCHEDULE												
SYM	TYPE	AREA SERVED	BLOWER				ELECTRICAL		MAXIMUM SONES	OPERATING WEIGHT (LBS)	MANUFACTURER AND MODEL	REMARKS
			CFM	ESP	MAXIMUM RPM	DRIVE	HP/W	V/ø				
EF 1	CEILING CABINET	MENS	150	.25	1365	DIRECT	.062/60	120/1	3.8	25	COOK MODEL GC-320	①②③
EF 2	CEILING CABINET	WOMENS	150	.25	1365	DIRECT	.062/60	120/1	3.8	25	COOK MODEL GC-320	①②③
EF 3	CEILING CABINET	UTILITY	100	.25	1200	DIRECT	.009/49	120/1	1.5	22	COOK MODEL GC-240	①②③

- APPROVED ALTERNATE MANUFACTURER'S: GREENHECK, PENN, CARNES, & BARRY BLOWER.
- PROVIDE UNIT WITH MANUFACTURER'S STEEL ROOF JACK (SLOPED ROOF) EQUAL TO COOK MODEL RJ (W/ INTEGRAL BIRD SCREEN, FLASHING FLANGE AND BLACK EPOXY FINISH) , BACKDRAFT DAMPER, OUTLET FLEX DUCT CONNECTION, STANDARD DISCONNECT SWITCH, HANGING VIBRATION ISOLATORS, AND WHITE ALUMINUM GRILLE.
- CONTROL FAN WITH SEPARATE WALL SWITCH.

TRANSFER FAN SCHEDULE												
SYM	TYPE	AREA SERVED	BLOWER				ELECTRICAL		MAXIMUM SONES	OPERATING WEIGHT (LBS)	MANUFACTURER AND MODEL	REMARKS
			CFM	ESP	MAXIMUM RPM	DRIVE	HP/W	V/ø				
TF 1	CEILING CABINET	COMPUTER ROOM	350	.25	1205	DIRECT	.062/136	120/1	5.4	32	COOK MODEL GC-520	①②

- APPROVED ALTERNATE MANUFACTURER'S: GREENHECK, PENN, CARNES, & BARRY BLOWER.
- CONTROL FAN WITH HEAT RISE T-STAT.

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BMS
ARCHITECTS

PROPOSED DEVELOPMENT FOR:
RAYCO
PRESIDENT DRIVE

DRAWN **GFB**
DATE **6/1/06**
CHECKED **CEP**
JOB NO. **05250.03**
SHEET
M3.1

Mechanical Compliance Certificate 2003 IECC

COMcheck-EZ Software Version 3.0 Release 2b
Data filename: Untitled.cck

Section 1: Project Information

Project Name: Rayco
Designer/Contractor: Musgrove Engineering
Document Author: Gabriel Bishop

Section 2: General Information

Building Location (for weather data): Boise, Idaho
Climate Zone: 12b
Heating Degree Days (base 65 degrees F): 3861
Cooling Degree Days (base 65 degrees F): 754
Project Type: New Construction

Section 3: Mechanical Systems List

Quantity System Type & Description
3 HVAC System 1: Heating: Central Furnace, Gas / Cooling: Split System, Capacity <65 kBtu/h, Air-Cooled Condenser / Single Zone

Section 4: Requirements Checklist

- Bldg. Use: []
Dept. Use: []
- Requirements Specific To: HVAC System 1
- Newly purchased heating equipment meets the heating efficiency requirements
 - Equipment minimum efficiency: Split System: 10.0 SEER
- Generic Requirements: Must be met by all systems to which the requirement is applicable
- Load calculations per 1997 ASHRAE Fundamentals
 - Plant equipment and system capacity no greater than needed to meet loads
 - Exception: Standby equipment automatically off when primary system is operating
 - Exception: Multiple units controlled to sequence operation as a function of load
 - Minimum one temperature control device per system
 - Minimum one humidity control device per installed humidification/dehumidification system
 - Thermostatic controls has 5 degree F deadband
 - Exception: Thermostats requiring manual changeover between heating and cooling
 - Automatic Controls: Setback to 55 degree F (heat) and 85 degree F (cool), 7-day clock, 2-hour occupant override, 10-hour backup
 - Exception: Continuously operating zones
 - Exception: 2 kW demand or less, submit calculations
 - Automatic shut-off dampers on exhaust systems and supply systems with airflow >3,000 cfm
 - Outside-air source for ventilation; system capable of reducing OSA to required minimum
 - R-5 supply and return air duct insulation in unconditioned spaces
 - R-8 supply and return air duct insulation outside the building
 - Exception: Ducts located within equipment
 - Exception: Ducts with interior and exterior temperature difference not exceeding 15 degree F
 - Ducts sealed - longitudinal seams on rigid ducts; transverse seams on all ducts; UL 181A or 181B tapes and mastics
 - Exception: Continuously welded and locking-type longitudinal joints and seams on ducts operating at static pressures less than 2 inches w.g. pressure classification
 - Mechanical fasteners and sealants used to connect ducts and air distribution equipment
 - Hot water pipe insulation: 1 in. for pipes <=1.5 in. and 2 in. for pipes >1.5 in.
 - Exception: Piping within HVAC equipment
 - Chilled water/refrigerant/brine pipe insulation: 1 in. for pipes <=1.5 in. and 1.5 in. for pipes >1.5 in.
 - Exception: Fluid temperatures between 55 and 105 degree F
 - Exception: Fluid not heated or cooled
 - Exception: Runouts <4 ft in length
 - Operation and maintenance manual provided to building owner
 - Balancing devices provided in accordance with IMC 603.15
 - Stair and elevator shaft vents are equipped with motorized dampers

Section 5: Compliance Statement

The proposed mechanical design represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2003 IECC requirements in COMcheck-EZ Version 3.0 Release 2b and to comply with the mandatory requirements in the Requirements Checklist.

Principal Mechanical Designer-Name: _____ Signature: _____ Date: _____

Mechanical Requirements Description

2003 IECC

COMcheck-EZ Software Version 3.0 Release 2b
Data filename: Untitled.cck

The following list provides more detailed description of the requirements in Section 4 of the Mechanical Compliance Certificate.

Requirements Specific To: HVAC System 1

- The specified heating equipment is covered by Federal minimum efficiency requirements. New equipment of this type can be assumed to meet or exceed ASHRAE 90.1 Code requirements for equipment efficiency.
- The specified heating and/or cooling equipment is covered by ASHRAE 90.1 Code and must meet the following minimum efficiency: Split System: 10.0 SEER

Generic Requirements: Must be met by all systems to which the requirement is applicable

- Design heating and cooling loads for the building must be determined using procedures equivalent to those in Chapters 27 and 28 of the ASHRAE Handbook of Fundamentals or an approved equivalent calculation procedure.
- All equipment and systems must be sized to be no greater than needed to meet calculated loads. A single piece of equipment providing both heating and cooling must satisfy this provision for one function with the capacity for the other function as small as possible, within available equipment options.
 - Exception: The equipment and/or system capacity may be greater than calculated loads for standby purposes. Standby equipment must be automatically controlled to be off when the primary equipment and/or system is operating.
 - Exception: Multiple units of the same equipment type whose combined capacities exceed the calculated load are allowed if they are provided with controls to sequence operation of the units as the load increases or decreases.
- Each heating or cooling system serving a single zone must have its own temperature control device.
- Each humidification system must have its own humidity control device.
- Thermostats controlling both heating and cooling must be capable of maintaining a 5 degree F deadband (a range of temperature where no heating or cooling is provided).
 - Exception: Deadband capability is not required if the thermostat does not have automatic changeover capability between heating and cooling.
- The system or zone control must be a programmable thermostat or other automatic control meeting the following criteria:a) capable of setting back temperature to 55 degree F during heating and setting up to 85 degree F during coolingb) capable of automatically setting back or shutting down systems during unoccupied hours using 7 different day schedulesc) have an accessible 2-hour occupant override) have a battery back-up capable of maintaining programmed settings for at least 10 hours without power.
 - Exception: A setback or shutoff control is not required on thermostats that control systems serving areas that operate continuously.
 - Exception: A setback or shutoff control is not required on systems with total energy demand of 2 kW (6,826 Btu/h) or less.
- Outdoor-air supply systems with design airflow rates >3,000 cfm of outdoor air and all exhaust systems must have dampers that are automatically closed while the equipment is not operating.
- The system must supply outside ventilation air as required by Chapter 4 of the International Mechanical Code. If the ventilation system is designed to supply outdoor air quantities exceeding minimum required levels, the system must be capable of reducing outdoor-air flow to the minimum required levels.
- Air ducts must be insulated to the following levels:a) Supply and return air ducts for conditioned air located in unconditioned spaces (spaces neither heated nor cooled) must be insulated with a minimum of R-5. Unconditioned spaces include attics, crawl spaces, unheated basements, and unheated garages.b) Supply and return air ducts and plenums must be insulated to a minimum of R-8 when located outside the building.c) When ducts are located within exterior components (e.g., floors or roofs), minimum R-8 insulation is required only between the duct and the building exterior.
 - Exception: Duct insulation is not required on ducts located within equipment.
 - Exception: Duct insulation is not required when the design temperature difference between the interior and exterior of the duct or plenum does not exceed 15 degree F.
- All joints, longitudinal and transverse seams, and connections in ductwork must be securely sealed using weldments; mechanical fasteners with seals, gaskets, or mastics; mesh and mastic sealing systems; or tapes. Tapes and mastics must be listed and labeled in accordance with UL 181A or UL 181B.
 - Exception: Continuously welded and locking-type longitudinal joints and seams on ducts operating at static pressures less than 2 inches w.g. pressure classification.
- Mechanical fasteners and seals, mastics, or gaskets must be used when connecting ducts to fans and other air distribution equipment, including multiple-zone terminal units.
- All pipes serving space-conditioning systems must be insulated as follows:
 - Hot water piping for heating systems:
 - 1 in. for pipes <=1 1/2-in. nominal diameter
 - 2 in. for pipes >1 1/2-in. nominal diameter
 - Chilled water, refrigerant, and brine piping systems:
 - 1 in. insulation for pipes <=1 1/2-in. nominal diameter
 - 1 1/2 in. insulation for pipes >1 1/2-in. nominal diameter.
 - Steam piping:
 - 1 1/2 in. insulation for pipes <=1 1/2-in. nominal diameter
 - 3 in. insulation for pipes >1 1/2-in. nominal diameter.
 - Exception: Pipe insulation is not required for factory-installed piping within HVAC equipment.
 - Exception: Pipe insulation is not required for piping that conveys fluids having a design operating temperature range between 55 degrees F and 105 degrees F.
 - Exception: Pipe insulation is not required for piping that conveys fluids that have not been heated or cooled through the use of fossil fuels or electric power.
 - Exception: Pipe insulation is not required for runout piping not exceeding 4 ft in length and 1 in. in diameter between the control valve and HVAC coil.
- Operation and maintenance documentation must be provided to the owner that includes at least the following information:a) equipment capacity (input and output) and required maintenance actionsb) equipment operation and maintenance manualsc) HVAC system control maintenance and calibration information, including wiring diagrams, schematics, and control sequence descriptions; desired or field-determined set points must be permanently recorded on control drawings, at control devices, or for digital control systems, in programming comments) complete narrative of how each system is intended to operate.
- Each supply air outlet or diffuser and each zone terminal device (such as VAV or mixing box) must have its own balancing device. Acceptable balancing devices include adjustable dampers located within the ductwork, terminal devices, and supply air diffusers.
- Stair and elevator shaft vents must be equipped with motorized dampers capable of being automatically closed during normal building operation and interlocked to open as required by fire and smoke detection systems. All gravity outdoor air supply and exhaust hoods, vents, and ventilators must be equipped with motorized dampers that will automatically shut when the spaces served are not in use.
 - Exception:
 - Gravity (non-motorized) dampers are acceptable in buildings less than three stories in height above grade.
 - Ventilation systems serving unconditioned spaces.

ENERGY CODE COMPLIANCE NOTES

A. COMPLIANCE WITH THE 2003 INTERNATIONAL ENERGY CONSERVATION CODE IS REQUIRED FOR THIS PROJECT. THESE NOTES COVER MANDATORY REQUIREMENTS OF THE CODE. ADDITIONAL REQUIREMENTS ARE NOTED ON THE DRAWINGS AND IN THE SPECIFICATIONS.

B. MINIMUM REQUIREMENTS FOR SUPPLY AND RETURN DUCTWORK INSULATION:

- R-5: DUCTS LOCATED IN UNCONDITIONED SPACES (SPACE NEITHER HEATED NOR COOLED SUCH AS ABOVE CEILING SPACES, WALL SPACES, DUCT CHASES, SOFFITS, ATTICS, CRAWL SPACES, UNHEATED BASEMENTS, AND UNHEATED GARAGES).
- R-8: DUCTS LOCATED OUTSIDE OF THE BUILDING'S INSULATION ENVELOPE (SUCH AS ABOVE THE ATTIC INSULATION).

TYPICAL INSULATION THICKNESS REQUIRED TO MEET THESE REQUIREMENTS:

- FIBERGLASS DUCT WRAP: R-5 (2"), R-8 (3").
- FIBERGLASS DUCT LINER: R-5 (1 1/2"), R-8 (2").
- FIBERGLASS DUCT BOARD: R-5 (1 1/2"), R-8 (2").

C. CONTRACTOR SHALL VERIFY WITH THE MANUFACTURER, THE R-VALUES OF THE ACTUAL INSULATION USED. R-VALUES SHALL BE INSTALLED VALUES.

D. WHERE DUCTS USED FOR COOLING ARE EXTERNALLY INSULATED, THE INSULATION SHALL BE COVERED WITH A VAPOR RETARDER HAVING A MAXIMUM PERMEANCE OF 0.05 PERM OR ALUMINUM FOIL HAVING A MINIMUM THICKNESS OF 2 MILS. INSULATION HAVING A PERMEANCE OF 0.05 PERMS OR LESS SHALL NOT BE REQUIRED TO BE COVERED. ALL JOINTS AND SEAMS SHALL BE SEALED TO MAINTAIN THE CONTINUITY OF THE VAPOR RETARDER.

E. ALL DUCT JOINTS, SEAMS, AND CONNECTIONS SHALL BE FASTENED AND SEALED WITH WELDS, GASKETS, ADHESIVES, MASTIC-PLUS-EMBEDDED-FABRIC SYSTEMS, OR TAPES. TAPES AND MASTICS SHALL BE LISTED AND LABELED PER UL181A OR UL181B. DUCT TAPE IS NOT PERMITTED AS A SEALANT ON ANY METAL DUCTS. DUCT CONNECTIONS TO FLANGES OR EQUIPMENT SHALL BE SEALED AND MECHANICALLY FASTENED.

F. MINIMUM REQUIREMENTS (THICKNESS) FOR PIPING INSULATION SHALL BE AS FOLLOWS:

FLUID	NOMINAL PIPE DIAMETER	
	1/2" TO 1 1/2"	2" AND ABOVE
1. STEAM	1 1/2"	3"
2. HEATING WATER	1"	2"
3. CHILLED WATER	1"	1 1/2"
4. REFRIGERANT	1"	1 1/2"

THE ABOVE INSULATION IS BASED ON HAVING A CONDUCTIVITY NOT EXCEEDING 0.27 BTU-INCH/HOUR-FT²-F.

G. AN OPERATING AND MAINTENANCE MANUAL SHALL BE PROVIDED PRIOR TO ISSUANCE OF A CERTIFICATE OF OCCUPANCY. THE O&M MANUAL SHALL CONTAIN THE FOLLOWING INFORMATION AS A MINIMUM:

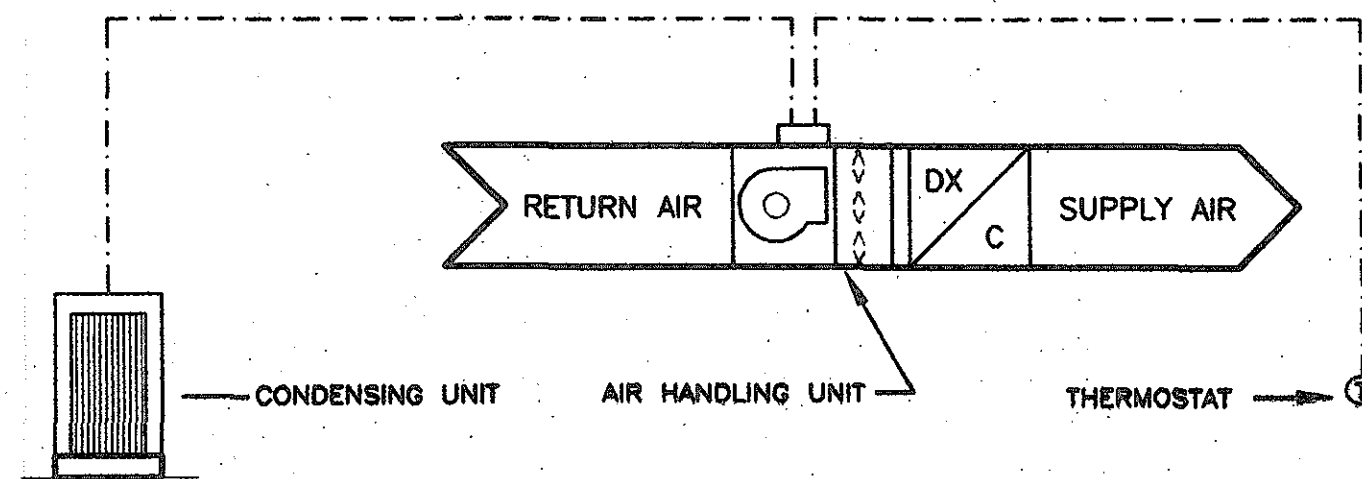
- EQUIPMENT CAPACITY (INPUT & OUTPUT).
- EQUIPMENT OPERATING AND MAINTENANCE INSTRUCTIONS.
- CONTROL SYSTEM MAINTENANCE AND CALIBRATION INFORMATION, INCLUDING WIRING DIAGRAMS, SCHEMATICS, AND CONTROL SEQUENCES.
- CONTROL SYSTEM SETPOINTS SHALL BE SHOWN ON CONTROL DRAWINGS, AT CONTROL DEVICES, OR IN PROGRAMMING COMMENT ON DDC SYSTEMS.
- A COMPLETE WRITTEN NARRATIVE ON HOW EACH MECHANICAL SYSTEM IS INTENDED TO OPERATE.

SEQUENCE OF OPERATIONS

Air Handling Units without Economizers:

The Air Handling Unit supply fan will start during occupied periods as set by the programmable thermostat. If cooling is required the programmable thermostat will start the compressorized cooling system to maintain the user adjustable cooling space setpoint. If heating is required the unit will energize the heating system and cycling the heating stage(s) as required to maintain the space temperature heating setpoint. If the space temperature is between the heating and cooling setpoint, the supply fan will continue to operate, but neither heating nor cooling will be enabled.

In the unoccupied mode the Air Handling Unit supply fan will be stopped. If space temperature were to rise above or fall below the unoccupied space set points the Air Handling Unit supply fan will start and heating or cooling will be enabled to maintain the space temperature at the unoccupied space temperature setpoint.



AIR HANDLING UNIT CONTROL SYSTEM SCHEMATIC
NTS

MUSGROVE ENGINEERING, PA

410 S. ORCHARD SUITE 184 BOISE, IDAHO 83705

Zone Summary

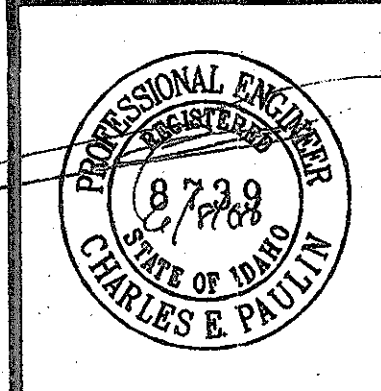
PROJECT:	RAYCO									
COMPUTED BY:	GPB				DATE:	6-Jun-06		CHK BY:	CEP	
		Heating Load				Sensible Cooling Load			Total Cooling Load	
Zone Reference	FLOOR SQ. FT.	BTUH	KW	BTUH	BTUH	NOMINAL TON (12000 BTUH/TON)	SQ. FT PER NOMINAL TON	NUMBER OF PEOPLE	OSA	Unit Selection Size TONS
1 Office, Break Rm, R.R.	975	40,873	12	23,360	25,324	2.1	462.0	7	140	
2 Work Area, Recep., Utility	4200	133,887	39	102,716	108,326	9.0	465.3	20	400	
Total Loads =	5175	174,740	51	126,077	133,650	11.1	464.6	27	540	
Energy Compliance Calculations (Not Equipment Schedule)										
Equipment is selected based on next available size										

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NO.									

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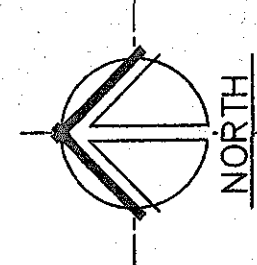
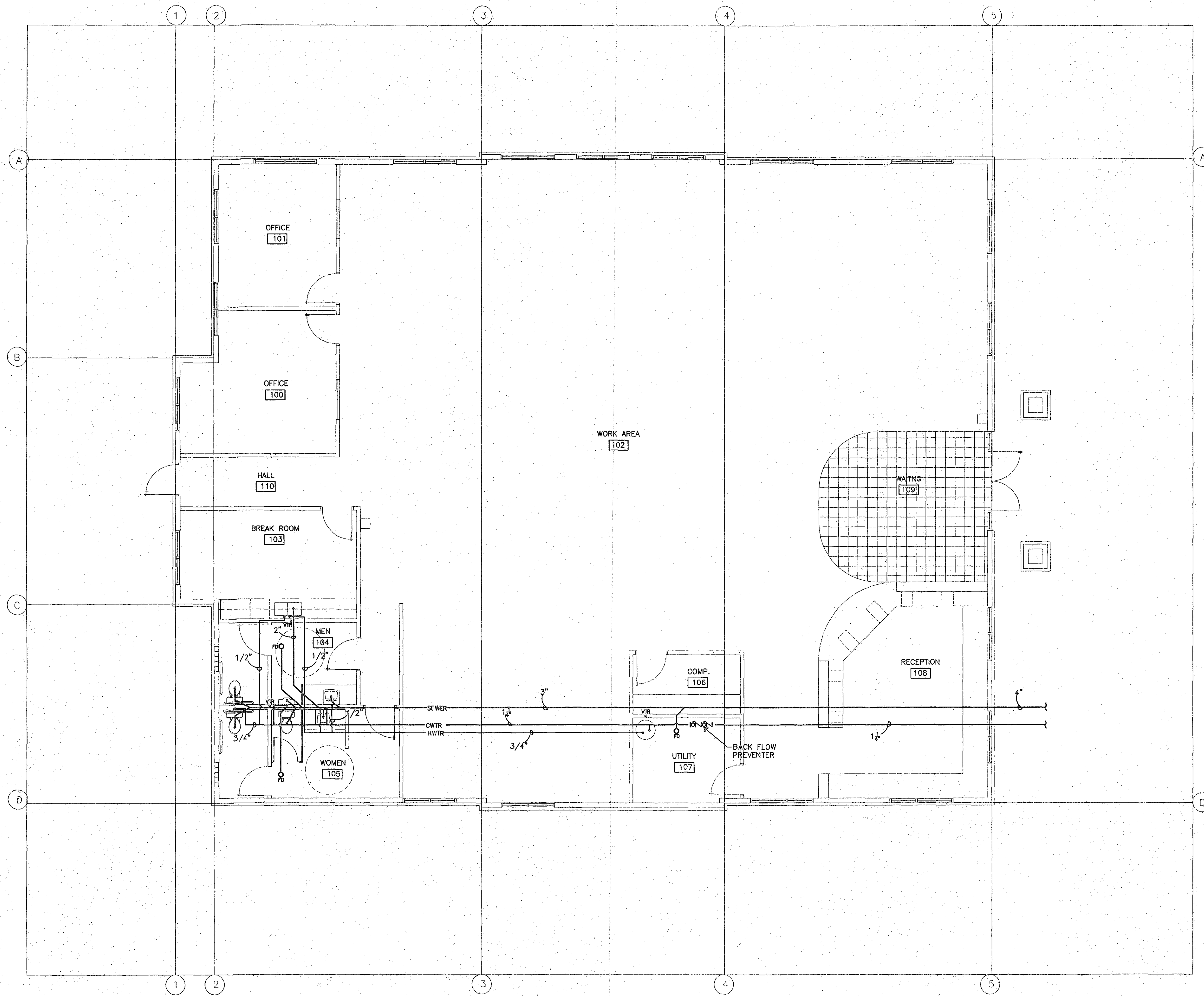
PROPOSED DEVELOPMENT FOR:

RAYCO

PRESIDENT DRIVE

BOISE, IDAHO

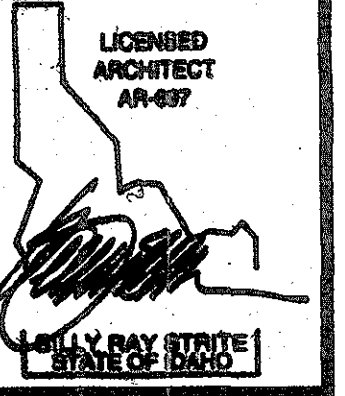
DRAWN	GPB
DATE	6/7/06
CHECKED	CEP
JOB NO.	05259.03
SHEET	M4.1



PLUMBING PLAN
SCALE: 3/16"=1'-0"

FIXTURE SCHEDULE

ITEM #	DESCRIPTION	QUANTITY
K4274-0	1.6 12 EB BOWL 2 TRAP *HIGHLI WHIT	2
K4620-0	1.6 RI CLST TANK ONLY *WELLWO WHITE	2
B1055000	EB BOWL OF PLAS CLST SEAT WHIT	2
BOCR1912DLC	CP 1/2X3/8 COMP 12 ANG SPLY KIT	2
H007035	WAX RNG W/STL PLT CLST BOLTS	2
K4276-0	12 EB BOWL 2 TRAP *WELLWO WHIT	1
K4620-0	1.6 RI CLST TANK ONLY *WELLWO WHIT	1
BOCR1912DLC	CP 1/2X3/8 COMP 12 ANG SPLY KIT	1
H007035	WAX RNG W/STL PLT CLST BOLTS	1
B1055000	EB BOWL OF PLAS CLST SEAT WHIT	1
AECT52202172S19	50G 4.5KW 240V 1PH WHTR MAG	1
PFT12	4.4 GAL THRLM EXP TANK	1
BWB0018	18 3/4X3/4 FIP FLEX WTR CONN	2
BRNFM	3/4X3 BRS NIP	2
K2005-0	21X18 4 VC LAV *KINGST WHIT	2
D501WFHGMHDF	1 HDL LAV FCT CP	2
PF202WH	3PC P TRAP & SPLY CVR WHIT	2
PF8620H	1-1/4 20 GA P-TRAP CP	2
PF155A	1-1/4 GRID DRN W/TLPC CP	2
BOCR1915AC	CP 1/2X15 COMP ANG LAV SPLY KIT	2
K5016-ET-0	1.0 TOP SPUD URN *DEXTER WHIT	1
S3012636	186-1 ROY 1.0 FLUSH VLV W/SWT	1
PFZ199624	24X24X10 MOP BASIN W/DRN GRGR	1
F830AA	MOP BASIN FCT	1
S2005AYSNBK	2 NH FLR DRN W/5 RD NB TOP	3

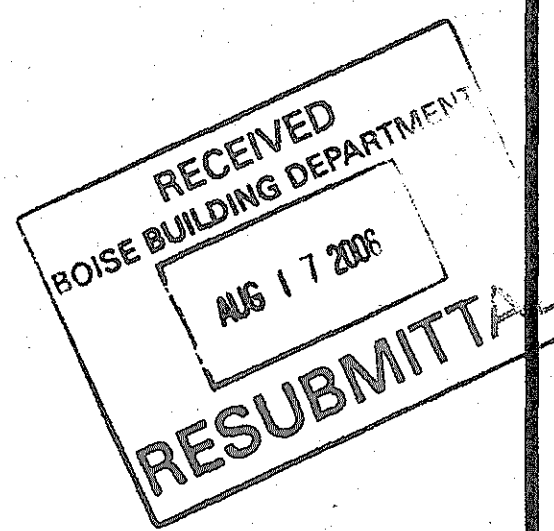


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PROPOSED DEVELOPMENT FOR:
RAYCO
PRESIDENT DRIVE
BOISE, IDAHO



DRAWN	DTS
DATE	5/5/06
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JOB NO.	05259.03
SHEET	P1.0

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ELECTRICAL ABBREVIATIONS	
A	AMPERES
AC	6" ABOVE BACKSLASH
AF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AF	AMP FRAME
AIC	AMPS INTERRUPTING CAPACITY
AT	AMP TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
C	CONDUIT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CO	CONDUIT ONLY, PROVIDE PULL-LINE
CT	CURRENT TRANSFORMER
CTL	CONTROL
DC	DIRECT CURRENT
DEMO	DEMOLITION
DET	DETAIL
E	EMPTY/EMERGENCY
(E)	EXISTING
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
EL	EMERGENCY LIGHT
EW	ELECTRIC WATER COOLER
EW	ELECTRIC WATER HEATER
EXG	EXISTING
F	FUSE
FVNR	FULL VOLTAGE NON-REVERSING
FVR	FULL VOLTAGE REVERSING
G/GND	GROUND
GFI	GROUND FAULT INTERRUPTION
HH	HANDHOLE
HID	HIGH INTENSITY DISCHARGE
HOA	HAND-OFF-AUTO
HPS	HIGH PRESSURE SODIUM
HT	HEIGHT
HVAC	HEATING, VENTILATING, & AIR CONDITIONING
IC	INTERRUPTING CAPACITY
IG	ISOLATED GROUND
IPCO	IDAHO POWER COMPANY
JJB	JUNCTION BOX
KA	KILOAMP
KW	KILOWATT
KWH	KILOWATT HOUR
M	MAGNETIC CONTACTOR COIL
MB	MAIN BREAKER
MC	MECHANICAL CONTRACTOR
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MLO	MAIN LUGS ONLY
MS	MOTOR STARTER
MH	MANHOLE
MH	METAL HALIDE
MTG	MOUNTING
N	NEUTRAL
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OH	OVERHEAD
OL	OVERLOAD
OS	OCCUPANCY SENSOR
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
PC	PHOTOCELL
PNL	PANEL
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE
PWR	POWER
REC	RECEPTACLE
(R)	RELOCATED
SF	SQUARE FEET
T	TELEPHONE
TB	TERMINAL BOARD
TBD	TO BE DETERMINED
TC	TIME CLOCK
TDR	TIME DELAY RELAY
TJB	TERMINAL JUNCTION BOX
TSP	TWISTED SHIELDED PAIR
TTB	TELEPHONE TERMINAL BOARD
TYP	TYPICAL
UG	UNDERGROUND
UH	UNIT HEATER
UNO	UNLESS NOTED OTHERWISE
V	VOLT
VA	VOLT-AMPERE
WP	WEATHER PROOF/NEMA 3R
XFMR	TRANSFORMER
X	EXPLOSION PROOF
XFR	TRANSFER

LIGHTING SYMBOLS see luminaire schedule for mounting and fixture type	
	2x4' ARCHITECTURAL LUMINAIRE
	2x4' PARABOLIC LUMINAIRE
	2x4' LUMINAIRE
	2x4' LUMINAIRE WITH EMERGENCY POWER SOURCE AS NOTED
	1x4' LUMINAIRE
	1x4' LUMINAIRE WITH EMERGENCY POWER SOURCE AS NOTED
	2x2' PARABOLIC LUMINAIRE
	2x2' LUMINAIRE
	2x2' LUMINAIRE WITH EMERGENCY POWER SOURCE AS NOTED
	SURFACE CABLE DOWN LUMINAIRE
	SURFACE CABLE DOWN LUMINAIRE
	SURFACE PENDANT LUMINAIRE
	SURFACE UPLIGHT LUMINAIRE
	STEP LUMINAIRE
	RECESSED WALL WASH LUMINAIRE
	RECESSED SLOPED CEILING LUMINAIRE
	RECESSED ACCENT LUMINAIRE
	RECESSED LUMINAIRE
	RECESSED LUMINAIRE WITH EMERGENCY POWER SOURCE AS NOTED
	INDIRECT LUMINAIRE (LENGTH AS INDICATED ON DWGS) GRID CEILINGS: PROVIDE WITH UL LISTED GRID JUNCTION BOX; SEE DETAIL ON DETAIL SHEET(S)
	INDIRECT LUMINAIRES WITH EMERGENCY POWER SOURCE AS NOTED (LENGTH AS INDICATED ON DWGS) GRID CEILINGS: PROVIDE WITH UL LISTED GRID JUNCTION BOX; SEE DETAIL ON DETAIL SHEET(S)
	4' WALL FIXTURE
	4' WALL FIXTURE WITH EMERGENCY POWER SOURCE AS NOTED
	2' WALL FIXTURE
	2' WALL FIXTURE WITH EMERGENCY POWER SOURCE AS NOTED
	3' WALL FIXTURE
	EMERGENCY LUMINAIRE
	TRACK LUMINAIRE HEAD MOUNTED AS INDICATED
	ROUND LUMINAIRE
	WALL MOUNTED LUMINAIRE
	TIMECLOCK
	PHOTOCELL
	OCCUPANCY SENSOR: FOR 1-POLE LINE VOLTAGE CEILING MOUNTED OCCUPANCY SENSOR, SENSOR SWITCH NO. CMR-PDT OR PRE-BID APPROVED EQUAL, OCCUPANCY SENSOR TO BE INSTALLED NO LESS THAN 3FT FROM ANY HVAC DIFFUSERS. FOR 2-POLE LINE VOLTAGE CEILING MOUNTED OCCUPANCY SENSOR, SENSOR SWITCH NO. CMR-PDT-2P OR PRE-BID APPROVED EQUAL, OCCUPANCY SENSOR TO BE INSTALLED NO LESS THAN 3FT FROM ANY HVAC DIFFUSERS.
	POLE LIGHT WITH ONE HEAD ARM MOUNTED
	POLE LIGHT WITH TWO HEADS ARM MOUNTED
	WALLPACK LUMINAIRE
	WALLPACK LUMINAIRE WITH EMERGENCY POWER SOURCE AS NOTED
	LIGHTING CONTACTOR TO BE NEMA 1 UNLESS OTHERWISE NOTED. SIZE, POLES, AND TYPE AS INDICATED ON DRAWING
	CEILING MOUNTED EXIT SIGN, DOUBLE FACE
	WALL MOUNTED EXIT SIGN, DOUBLE FACE
	CEILING MOUNTED EXIT SIGN, SINGLE FACE
	WALL MOUNTED EXIT SIGN, SINGLE FACE
	WALL MOUNTED EXIT SIGN/ EMERGENCY LIGHT COMBO UNIT, SINGLE FACE
	ARROW INDICATES DIRECTION TO BE SHOWN ON SIGN
	MOUNTING TYPE LAMP TYPE AND NUMBER TO DIFFERENTIATE LUMINAIRE E DESIGNATES FIXTURE WITH EMERGENCY BALLAST

FLOURESCENT FIXTURES WITH AN 'E' DESIGNATION ARE TO BE SUPPLIED WITH AND BODINE 90 MINUTE EMERGENCY BATTERY PACK (OR EQUAL) SUITABLE FOR THAT FIXTURES LAMP TYPE AND TO PRODUCE 50% OF THE ORIGINAL LIGHT OUTPUT.

METAL HALIDE OR HIGH PRESSURE SODIUM FIXTURES WITH AN 'E' DESIGNATION ARE TO BE SUPPLIED WITH A LOW VOLTAGE LAMP AND CIRCUIT. A BATTERY PACK WHICH IS RATED FOR 90W OUTPUT AND 90 MINUTES IS ALSO TO BE SUPPLIED. THE BATTERY PACK IS TO BE MOUNTED INSIDE THE BUILDING ENVELOP IN THE CEILING SPACE.

ELECTRICAL DEVICE SYMBOLS see electrical specifications for further information	
	DUAL LEVEL SWITCHING, INSIDE AND OUTSIDE LAMPS OF FIXTURE TO BE SWITCHED SEPARATELY.
	SINGLE RECEPTACLE. MOUNT AT +18" AFF UNLESS OTHERWISE NOTED.
	SINGLE RECEPTACLE. MOUNTED IN FLOOR. TYPE OF BOX AS INDICATED.
	DUPLEX RECEPTACLE. MOUNT AT +18" AFF UNLESS OTHERWISE NOTED.
	DUPLEX RECEPTACLE. MOUNTED IN FLOOR. TYPE OF BOX AS INDICATED.
	FOURPLEX RECEPTACLE. MOUNT AT +18" AFF UNLESS OTHERWISE NOTED.
	FOURPLEX RECEPTACLE. MOUNTED IN FLOOR. TYPE OF BOX AS INDICATED.
	SWITCH SUBSCRIPT INDICATES TYPE OF SWITCH. MOUNT AT +48" AFF UNLESS NOTED OTHERWISE
D	DIMMER
K	KEYED
LV	LOW VOLTAGE
M	MOMENTARY CONTACT
OV	VERRIDE
OC	OCCUPANCY SENSOR-FOR 1-POLE, LINE VOLTAGE OCCUPANCY SENSOR, SENSOR SWITCH NO. WSD-PDT OR PRE-BID APPROVED EQUAL, FOR 2-POLE, LINE VOLTAGE OCCUPANCY SENSOR, SENSOR SWITCH NO. WSD-PDT-2P OR PRE-BID APPROVED EQUAL, FURNISH AND INSTALL DUAL LEVEL SWITCHING.
P	PILOT LIGHT
TO	THERMAL OVERLOAD (THE NUMBER OF POLES TO MATCH CIRCUIT REQUIREMENTS AND BE SIZED FOR ASSOCIATED MOTOR LOAD.)
2	DOUBLE POLE
3	THREE WAY
4	FOUR WAY
8	SUPERSUBSCRIPT INDICATES LIGHTS TO BE SWITCHED
	MOTOR STARTER/CONTACTOR TO BE NEMA 1 UNLESS NOTED OTHERWISE. SIZE AND TYPE AS INDICATED ON DRAWING.
	COMBINATION MOTOR STARTER AND DISCONNECT TO BE NEMA 1 UNLESS NOTED OTHERWISE. SIZE AND TYPE AS INDICATED ON DRAWING.
	FUSED DISCONNECT SWITCH TO BE NEMA 1 UNLESS NOTED OTHERWISE. SIZE AND POLES AS INDICATED.
	NON-FUSED DISCONNECT SWITCH TO BE NEMA 1 UNLESS NOTED OTHERWISE. SIZE AND POLES AS INDICATED.
	THERMOSTAT MOUNTED AT +60" AFF UNLESS NOTED OTHERWISE. MECHANICAL UNIT TO BE CONTROLLED AS INDICATED
	AQUASTAT
	EQUIPMENT CONNECTION POINT. VERIFY TYPE OF CONNECTION WITH EQUIPMENT SUPPLIER. DIVISION 16 TO SUPPLY ALL RACEWAY AND CONDUCTORS UNLESS NOTED OTHERWISE
	EQUIPMENT CONNECTION POINT MOUNTED IN FLOOR. TYPE OF BOX AS INDICATED. VERIFY TYPE OF CONNECTION WITH EQUIPMENT SUPPLIER. DIVISION 16 TO SUPPLY ALL RACEWAY AND CONDUCTORS UNLESS NOTED OTHERWISE
	GROUND ROD; 5/8" BY 10' MINIMUM, COPPER-CLAD
	JUNCTION BOX
	WALL MOUNTED PUSHBUTTON. MOUNT AT +48" AFF UNLESS NOTED OTHERWISE
	TRANSFORMER. SIZE AND TYPE AS INDICATED
	MOTOR WITH THERMAL OVERLOAD
	MOTOR
	PANELBOARD. SEE ELECTRICAL SCHEDULES FOR TYPE, SIZE AND MOUNTING
	EQUIPMENT CABINET, SURFACE MOUNTED
	EQUIPMENT CABINET, FLUSH MOUNTED
	WALL MOUNTED CIRCUIT BREAKER. TYPE AND SIZE AS INDICATED
	RACEWAY MOUNT RECEPTACLES AS SHOWN. MOUNTING OF RACEWAY AS INDICATED
	MECHANICAL EQUIPMENT CALL OUT

ONE LINE SYMBOLS see electrical specifications for further information	
	ATS #A #P AUTOMATIC TRANSFER SWITCH, SIZE AND POLES AS INDICATED ON DRAWING
	#A #P CIRCUIT BREAKER; SIZE AND POLES AS INDICATED ON DRAWING
	PANEL #A #P PANELBOARD; NAME, SIZE, TYPE AS INDICATED ON DRAWINGS
	PAD MOUNTED TRANSFORMER BY LOCAL UTILITY
	METER
	GROUND BAR
	S SECTOR SWITCH

SPECIAL SYSTEMS SYMBOLS see electrical specifications for further information	
	TELEPHONE/DATA OUTLET, +18" AFF UNO, FOUR-SQUARE DEEP TYPE BOX WITH SINGLE GANG MUDRING
	TELEPHONE/DATA OUTLET, +18" AFF UNO, FOUR-SQUARE DEEP TYPE BOX WITH SINGLE GANG MUDRING
	C - INDICATES MOUNTED IN CEILING TILE
	M - INDICATED MICROPHONE INPUT
	W - INDICATES MOUNTED ABOVE ACCESSIBLE CEILING
	#1/#2 - # INDICATES NUMBER OF TELEPHONE/DATA
	1" CONDUIT TO ABOVE ACCESSIBLE CEILING OR TO TTB AS NOTED.
	(TYPICAL NUMBER OR PORTS AND ASSOCIATED CONDUCTORS)
	FLOOR MOUNTED TELEPHONE/DATA OUTLET CONDUCTORS
	INTERCOM
	SOUND SYSTEM MICROPHONE INPUT.
	CEILING MOUNTED SPEAKER WITH BACKBOX
	WALL MOUNTED SPEAKER, WITH BACKBOX +80" UNO
	VOLUME CONTROL, MOUNT AT SWITCH HEIGHT UNO
	TELEVISION OUTLET, +18" AFF UNO
	CEILING MOUNTED TELEVISION OUTLET
	PUBLIC ADDRESS SYSTEM, PUSH TO TALK
	PUBLIC ADDRESS SYSTEM, WALL MOUNTED DIGITAL CLOCK WITH SPEAKER COMBO MOUNTED AT 8 1/2" ABOVE ROOM WHITEBOARD.
	PUBLIC ADDRESS SYSTEM, WALL MOUTED DIGITAL CLOCK

FIRE ALARM SYMBOLS see electrical specifications for further information	
	SMOKE DETECTOR, ALL DEVICES CEILING MOUNTED
P	PHOTO-ELECTRIC DETECTOR
H	HEAT DETECTOR
ID	IN DUCT DETECTOR
D	DUCT DETECTOR
I	IONIZATION DETECTOR
WG	UNIT PROVIDED WITH PROTECTIVE WIRE GUARD
	ELECTROMAGNETIC DOOR HOLDER
	FIRE/SMOKE DAMPER
	PULLSTATION, +48" AFF TO CENTER OF DEVICE
	FIRE ALARM HORN, +80" AFF TO BOTTOM OF DEVICE UNO
	FIRE ALARM STROBE, +80" AFF TO BOTTOM OF DEVICE UNO, STROBE INTENSITY INDICATED
	FIRE ALARM HORN/STROBE +80" AFF TO BOTTOM OF DEVICE, UNO, STROBE INTENSITY INDICATED
	FIRE ALARM BELL, +80" AFF UNO
	FIRE ALARM CHIME, +80" AFF UNO
	FIRE ALARM CHIME/STROBE, +80" AFF TO BOTTOM OF DEVICE UNO, STROBE INTENSITY INDICATED
	END OF LINE RESISTOR
	FLOW SWITCH
	TAMPER SWITCH
	PRESSURE SWITCH
	FIRE SYSTEM ANNUNCIATOR, +60" AFF RECESSED IN WALL IN FINISHED AREAS
	FIRE ALARM CONTROL PANEL, +60" AFF RECESSED IN WALL IN FINISHED AREAS
	POST INDICATOR VALVE
	INDICATOR LIGHT
	INDICATOR LIGHT WITH TEST SWITCH
	FAN SHUT DOWN RELAY

CIRCUITING SYMBOLS see electrical specifications for further information	
	NEUTRAL ISOLATED GROUND
	CURRENT CARRYING CONDUCTORS
	GROUNDING CONDUCTOR
	EM EMERGENCY POWER SOURCE
	CIRCUIT CONCEALED IN WALL OR CEILING TYPICALLY TO BE 3/12-#12G, 3/4" (UNO)
	QUANTITY AND SIZE OF CONDUCTORS
	QUANTITY AND SIZE OF GROUNDING CONDUCTOR
	2 BEGINNING OF CIRCUIT AND NUMBER OF CIRCUIT
	CONDUIT UP
	CONDUIT DOWN
	UNDERGROUND OR CONCEALED CONDUIT
	EXISTING CONDUIT
	3 CONDUIT STUBBED, CAPPED, MARKED, AND PROVIDED WITH PULLSTRING
	CONDUIT

LINE TYPES	
	EXISTING
	DEMOLITION
	FUTURE
	NEW

ELECTRICAL DRAWING SHEET INDEX	
E0.0	ELECTRICAL SYMBOLS AND SHEET INDEX
E1.0	ELECTRICAL SITE PLAN
E2.0F	FIRE ALARM PLAN
E2.0L	LIGHTING PLAN
E2.0P	POWER PLAN
E2.0S	SPECIAL SYSTEMS PLAN
E3.0	ONE LINE DIAGRAM AND DETAILS
E3.1	ELECTRICAL SCHEDULES

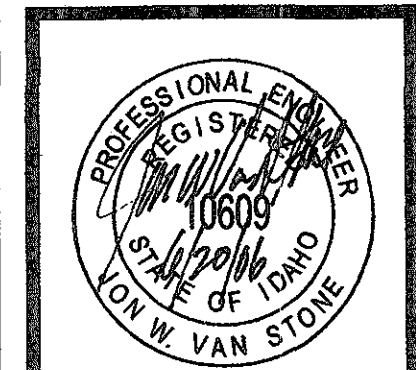
ELECTRICAL SYMBOLS LIST AND SHEET INDEX

SCALE: NTS

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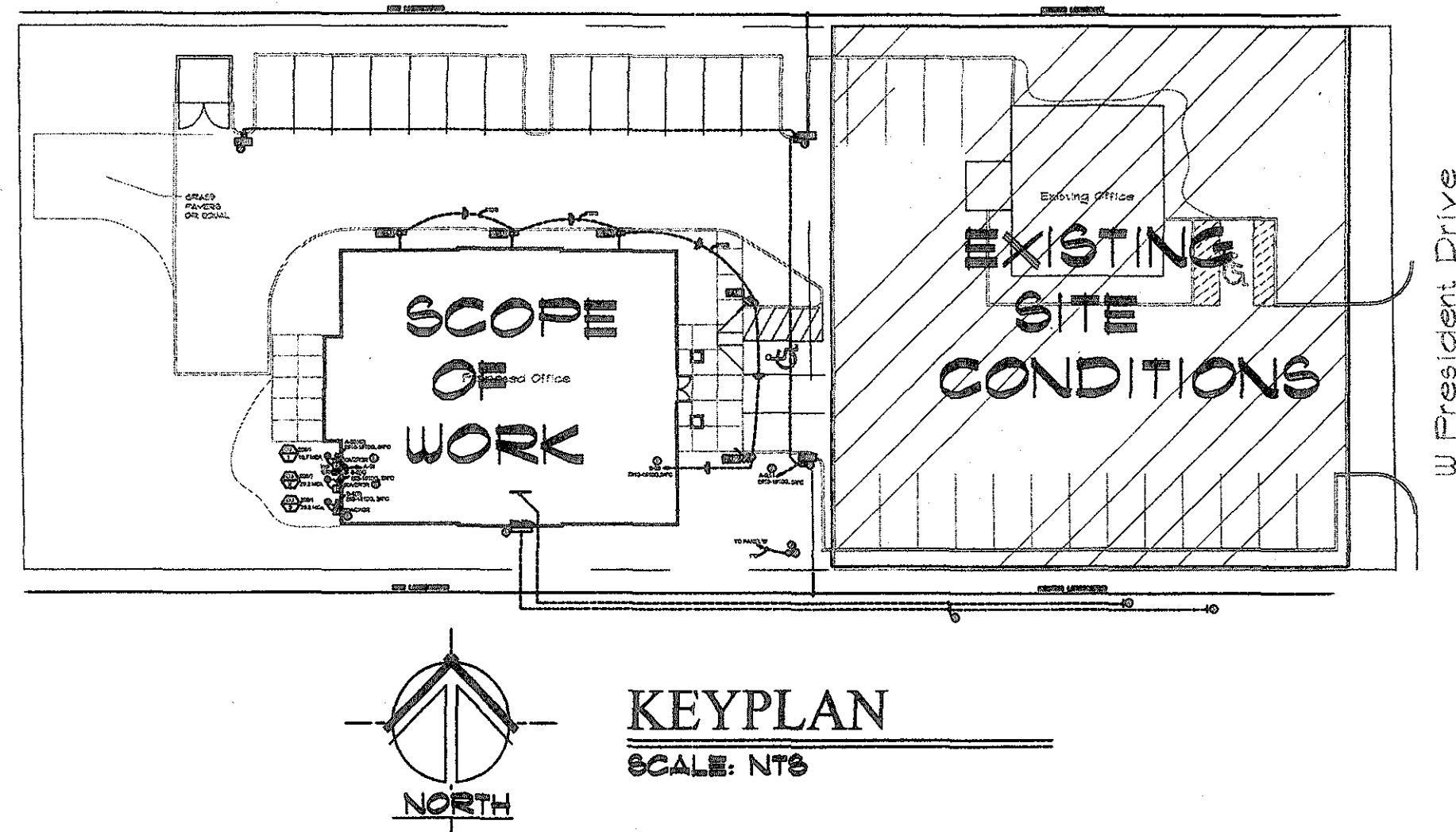
PROPOSED DEVELOPMENT FOR:

RAYCO

PRESIDENT DRIVE

BOISE, IDAHO

DRAWN	MG
DATE	6/5/06
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GENERAL NOTES

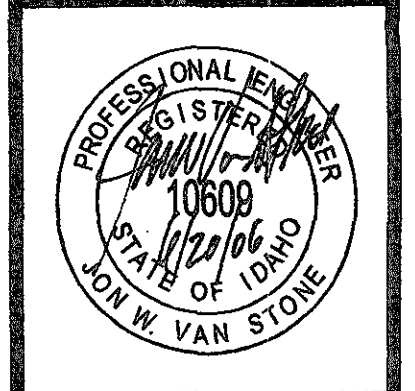
- 1 COORDINATE ALL UNDERGROUND SITE WORK WITH OTHER DISCIPLINES TO AVOID REWORK.
- 2 ALL IN-GRADE JUNCTION BOXES TO BE FIBERGLASS 12"x12"x18" DEEP, WITH LID LABELED 'ELECTRICAL'. FINISH ELEVATION OF TOP OF LID TO BE FLUSH WITH FINISHED GRADE, UNLESS NOTED OTHERWISE.
- 3 ALL PENETRATIONS THROUGH SLAB ARE TO BE PVC COATED RIGID CONDUIT, SCOTCH WRAP IS NOT PERMITTED.
- 4 ALL UNDERGROUND CONDUIT SHALL BE 1" SCHEDULE 40 PVC, UNLESS NOTED OTHERWISE.
- 5 UTILIZE JOINT TRENCH WITH IDAHO POWER COMPANY FOR ROUTING OF COMMUNICATION CONDUITS TO PEDESTALS NEAR IDAHO POWER CO. TRANSFORMERS.

KEYED NOTES

- 1 POLE LIGHT AND BASE; SEE BASE DETAIL ON SHEET E3.0.
- 2 ROUTE CIRCUIT THROUGH EXTERIOR LIGHTING CONTACTOR CONTROLLED BY PHOTOCELL AND TIMECLOCK, SEE CONTACTOR DETAIL ON SHEET E3.0.
- 3 NEW UNDERGROUND SECONDARY BY IDAHO POWER CO. VERIFY 4" CONDUIT WITH IDAHO POWER, APPROXIMATELY 300 CF TO TRANSFORMER, VERIFY WITH IDAHO POWER. SEE SHEET E3.0 FOR FURTHER INFORMATION.
- 4 (1) 4" EMPTY CONDUIT FOR TELECOMMUNICATIONS AND (1) 2" EMPTY CONDUIT FOR CATV, STUB CONDUITS TO EDGE OF PROPERTY LINE AS INDICATED, CAP, MARK AND PROVIDE PULL LINE. STUB CONDUITS 6" AFF BELOW TTB. ALL 90 DEG. BENDS SHALL BE FACTORY BENT LONG SWEEPING 90'S.
- 5 ELECTRICAL SERVICE ENTRANCE. SEE SHEET E3.0.
- 6 UTILIZE JOINT TRENCH FOR POWER AND COMMUNICATIONS CONDUITS.
- 7 CONNECTION TO FUTURE MONUMENT SIGN. COORDINATE CONNECTION WITH MONUMENT SIGN.
- 8 LOCATE DISCONNECT TO ALLOW FOR 36" CLEARANCE IN FRONT OF UNIT AND 30" CLEARANCE TO SIDE OF UNIT. COORDINATE LOCATION WITH MECHANICAL UNITS PRIOR TO ROUGH-IN.

KEYED NOTES

- 9 CIRCUIT THRU CONTACTOR FOR PHOTO-ON-TIME OFF CONTROL.



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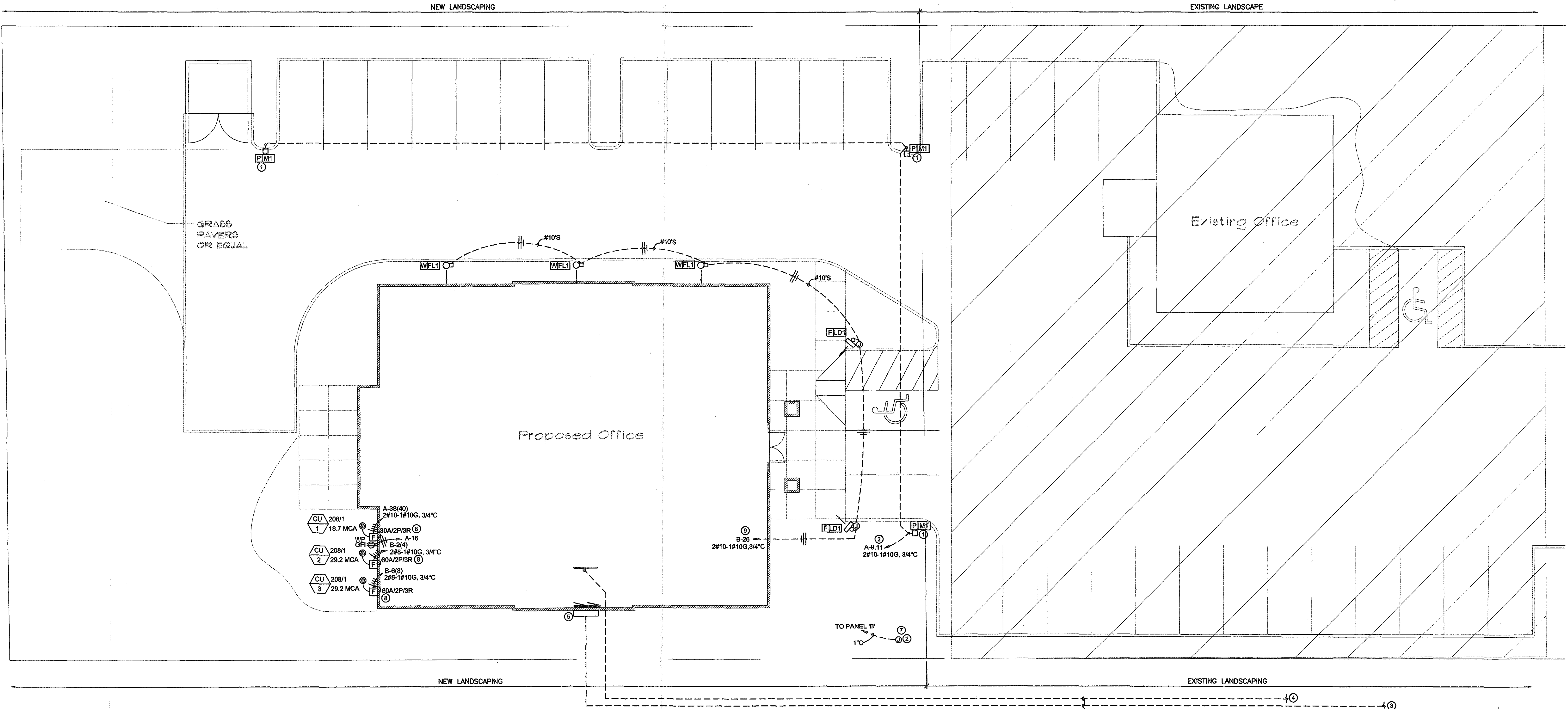
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PROPOSED DEVELOPMENT FOR:

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BOISE, IDAHO

PRESIDENT DRIVE



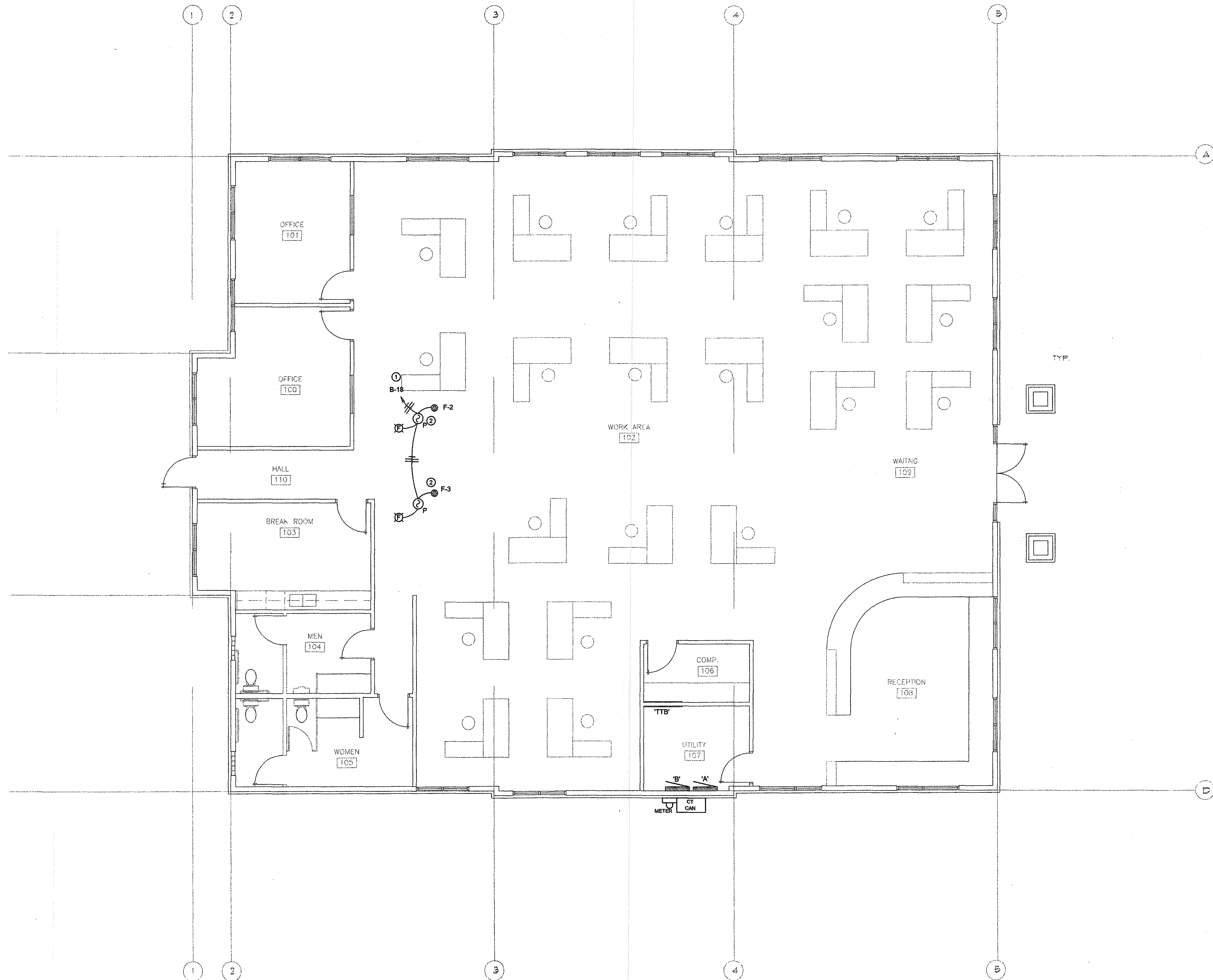
ELECTRICAL SITE PLAN
SCALE: 1"=10'-0"

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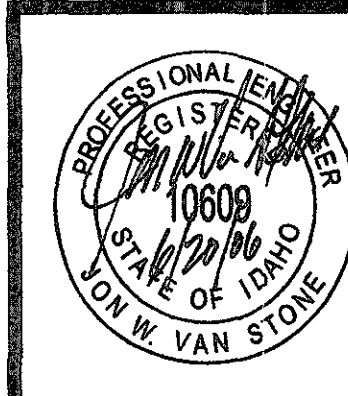
FIRE ALARM PLAN
SCALE: 3/16"=1'-0"

GENERAL NOTES

- 1 FIRE ALARM SYTEM TO BE A STAND ALONE SYSTEM FOR HVAC MONITORING VIA DUCT MOUTINED DETECTORS WITH SAMPLING TUBES.

KEYED NOTES

- 1 BREAKER TO BE RED HANDLED WITH LOCKOUT CAPABILITIES.
- 2 MOUNT DETECTOR ON RETURN SIDE OF UNIT. DETECTOR TO SHUT DOWN HVAC UNIT UPON ACTIVATION. DIVISION 16 TO FURNISH DUCT DETECTOR AND ASSOCIATED PARTS, DIVISION 15 TO INSTALL THE DUCT DETECTOR, AND DIVISION 16 TO MAKE FINAL CONNECTIONS. NOTIFICATION OF DUCT DETECTOR ACTIVATION TO BE DONE BY REMOTE CEILING MOUNTED LED WITH PIZZO ELECTRIC HORN.

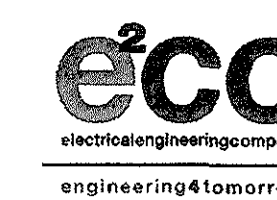


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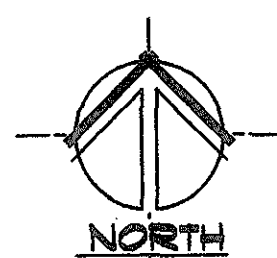
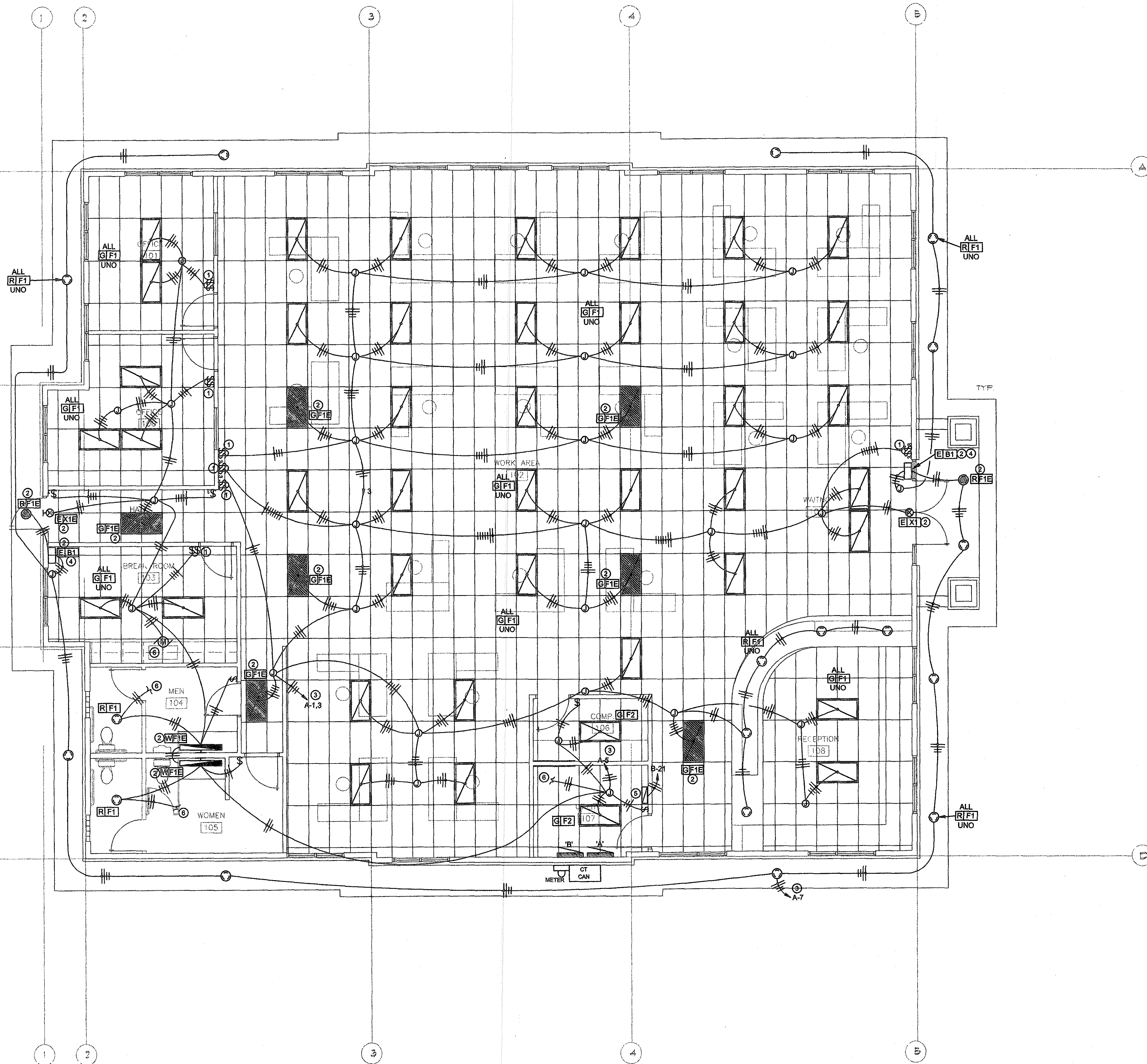
PROPOSED DEVELOPMENT FOR:
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LIGHTING PLAN
SCALE: 3/16"=1'-0"

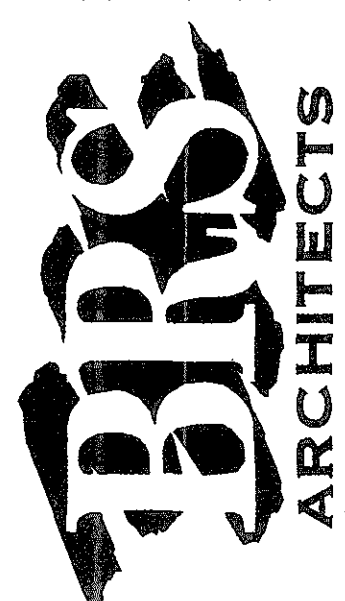
GENERAL NOTES

- 1 ALL EMERGENCY FIXTURES SHALL BE PROVIDED WITH AN EMERGENCY BATTERY PACK AS SPECIFIED ON THE FIXTURE SCHEDULE AND THE EMERGENCY FIXTURE SHALL BE PROVIDED WITH AND UNSWITCHED LEG THAT SHALL BE CONNECTED TO THE EMERGENCY BATTERY PACK.
- 2 ALL OCCUPANCY SENSORS THAT ARE INTERCONNECTED WITH THE HVAC CONTROL SYSTEM SHALL BE SET TO A MINIMUM OF 30 MINUTE DELAY.

KEYED NOTES

- 1 PROVIDE DUAL LEVEL SWITCHING, INSIDE AND OUTSIDE LAMPS TO BE SWITCHED INDEPENDENTLY.
- 2 CONNECT BATTERY PACK TO UNSWITCH LEG OF LIGHTING CIRCUIT.
- 3 ROUTE CIRCUIT THROUGH NEXTLITE 16 CIRCUIT LIGHTING CONTROL PANEL, SEE SHEET E3.0.
- 4 REMOTE EMERGENCY BATTERY PACK FOR RF1E, TYPICAL OF (3).
- 5 PROVIDE 1/2" CONDUIT AND CONDUCTORS TO LIGHTING CONTROL PANEL. LIGHTING CONTROL PANEL TO BE NEXTLITE NO. 16ELO WITH PHOTOCELL. MOUNT PHOTOCELL 12" ABOVE ROOF LINE FACING NORTH. PROVIDE MOMENTARY OVERRIDE SWITCH WITH MATCHING COVER PLATE FOR LIGHT SWEEP OVERRIDE. PANEL SHALL BE PROGRAMMED TO SHUT-OFF CIRCUIT(S) AS INDICATED ON DETAIL. COORDINATE SHUT-OFF TIME WITH OWNER. OVERRIDE SWITCH SHALL PROVIDE AN ADDITIONAL 2-HOURS OF OVERRIDE.
- 6 CONNECTION TO EXHAUST FAN. SEE SHEET E2.0MP FOR FURTHER INFORMATION.

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BOISE, IDAHO

PROPOSED DEVELOPMENT FOR:

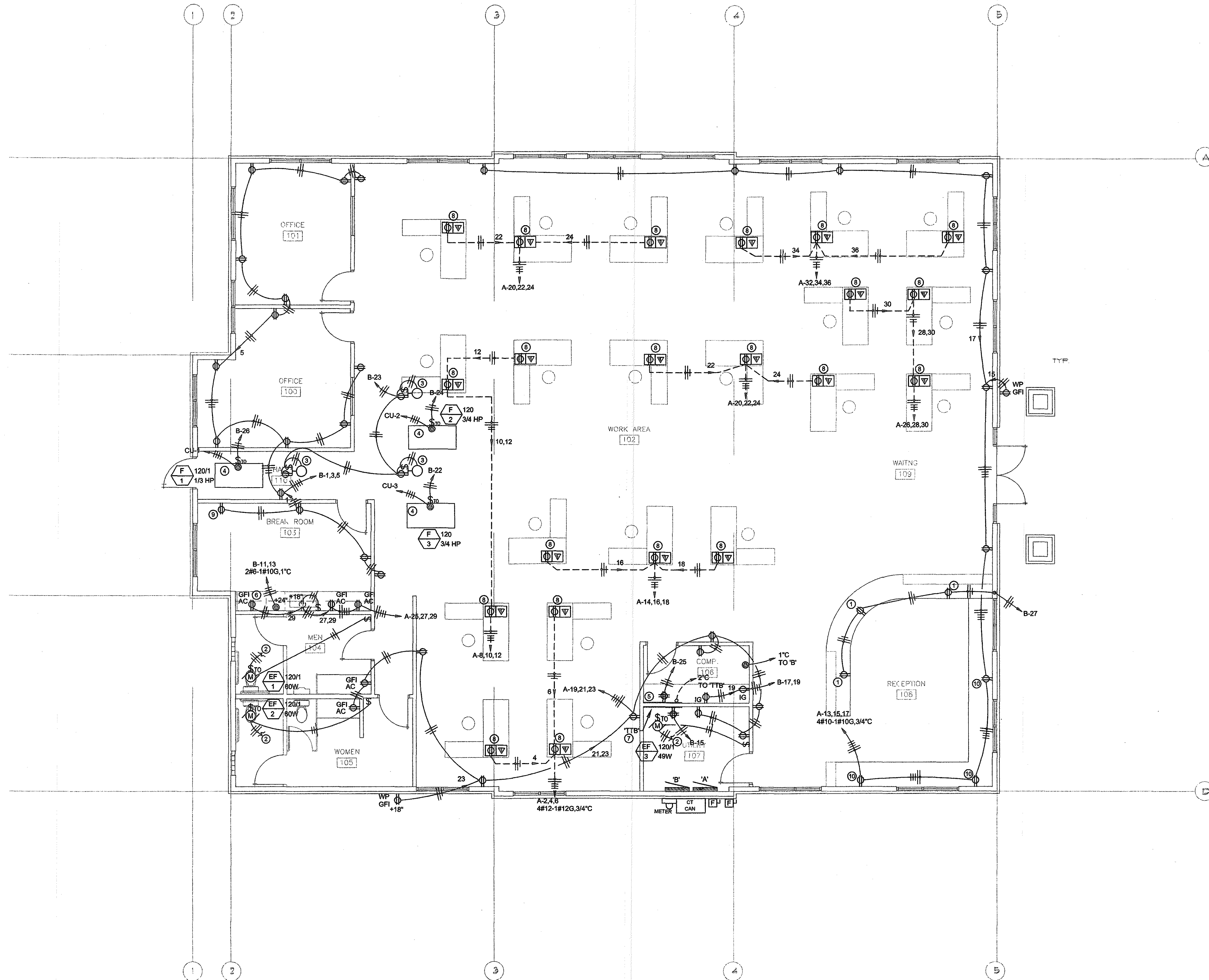
RAYCO

PRESIDENT DRIVE

e2co
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545 N. Benjamin Lane, Suite 175
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DRAWN **MG**
DATE **6/5/06**
CHECKED **JVB**
JOB NO. **05259.03**
SHEET **E2.0L**



POWER PLAN
SCALE: 3/16" = 1' - 0"

GENERAL NOTES

KEYED NOTES

- 1 RECEPTACLE TO BE MOUNTED IN MILLWORK, COORDINATE INSTALLATION OF BOX, CONDUIT, AND ROUTING WITH MILLWORK SUPPLIER PRIOR TO ROUGH-IN.
- 2 CONNECT TO UNSWITCHED LEG OF LIGHTING CIRCUIT IN ROOM.
- 3 KEYLESS COMPACT SELF CONTAINED FLOOR LAMP WITH WIRE GUARD AT PLATFORM.
- 4 VERIFY EXACT LOCATION OF MECHANICAL EQUIPMENT, EQUIPMENT LOADS, EQUIPMENT CONTROL AND FIRE PROTECTIONS SHUT DOWN REQUIREMENTS PRIOR TO ROUGH-IN.
- 5 COMPUTER EQUIPMENT TERMINAL BOARD, EXTEND 2" TO TELEPHONE TERMINAL BOARD.
- 6 RECEPTACLE FOR REFRIGERATOR.
- 7 TELEPHONE TERMINAL BOARD; SEE DETAIL SHEET E3.0.
- 8 4-COMPARTMENT FLOOR BOX WITH (2) DUPLEX AND (2) DATA RECEPTACLES WITH LID.
- 9 CONNECTION FOR OWNER PROVIDED VENDING MACHINE, VERIFY CONNECTION WITH OWNER PRIOR TO ROUGH-IN.
- 10 COORDINATE LOCATION AND MOUNTING HEIGHT WITH OWNER TO PREVENT CONFLICT WITH CABINETRY.

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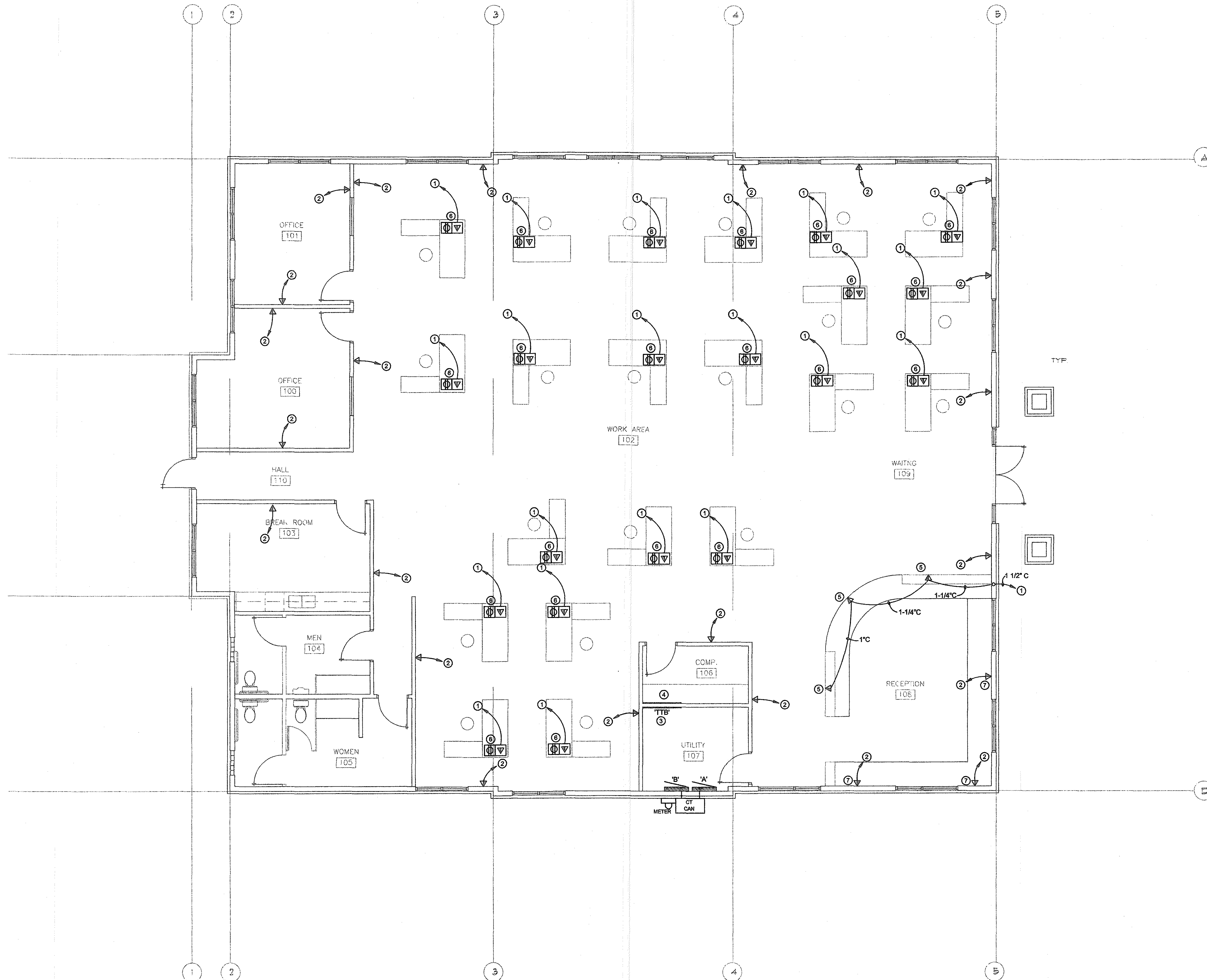
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eco project #: 06069

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SPECIAL SYSTEMS PLAN

SCALE: 3/16"=1'-0"

GENERAL NOTES

- 1 ALL INFORMATION INDICATED AS FURNISHED AND INSTALLED BY DIVISION 16 BELOW IS REQUIRED TO MEET ALL SPECIFICATION REQUIREMENTS (SPECIFICATION SECTION 16715). ADDITIONAL ITEMS MAY BE REQUIRED FOR A COMPLETE INSTALLATION AS PER SPECIFICATIONS AND DRAWINGS.
- 2 ALL DATA OUTLETS INDICATED ON DRAWINGS WITH AC ARE TO BE MOUNTED ABOVE COUNTER. ALL OTHER DATA OUTLETS ARE TO BE MOUNTED AT +18" ABOVE FINISHED FLOOR UNLESS OTHERWISE SPECIFIED ON DRAWINGS. DATA OUTLETS MOUNTED IN MILLWORK ARE TO HAVE MOUNTING HEIGHTS COORDINATED WITH MILLWORK SUPPLIER PRIOR TO ROUGH-IN.

KEYED NOTES

- 1 STUB 3/4" EMPTY CONDUIT INTO ACCESSIBLE FLOOR SPACE, TERMINATE WITH INSULATED THROAT BUSHING.
- 2 STUB 1" CONDUIT TO ABOVE ACCESSIBLE CEILING, TERMINATE CONDUIT WITH INSULATED THROAT BUSHING.
- 3 TELEPHONE TERMINAL, SEE DETAIL ON SHEET E3.0.
- 4 COMPUTER TERMINAL BOARD SEE DETAIL ON SHEET E3.0.
- 5 TELE/DATA OUTLET MOUNTED IN MILLWORK, COORDINATE INSTALLATION OF BOX, CONDUIT AND ROUTING WITH MILLWORK SUPPLIER PRIOR TO ROUGH-IN.
- 6 FLOOR BOX, SEE SHEET E2.0P FOR FURTHER INFORMATION.
- 7 COORDINATE LOCATION AND MOUNTING HEIGHT WITH OWNER TO PREVENT CONFLICT WITH CABINETRY.

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PROPOSED DEVELOPMENT FOR:

RAYCO

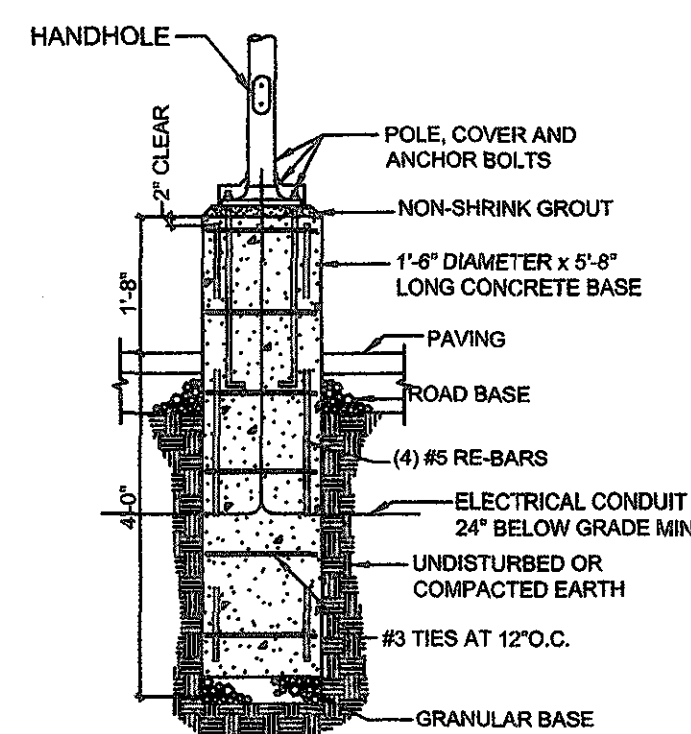
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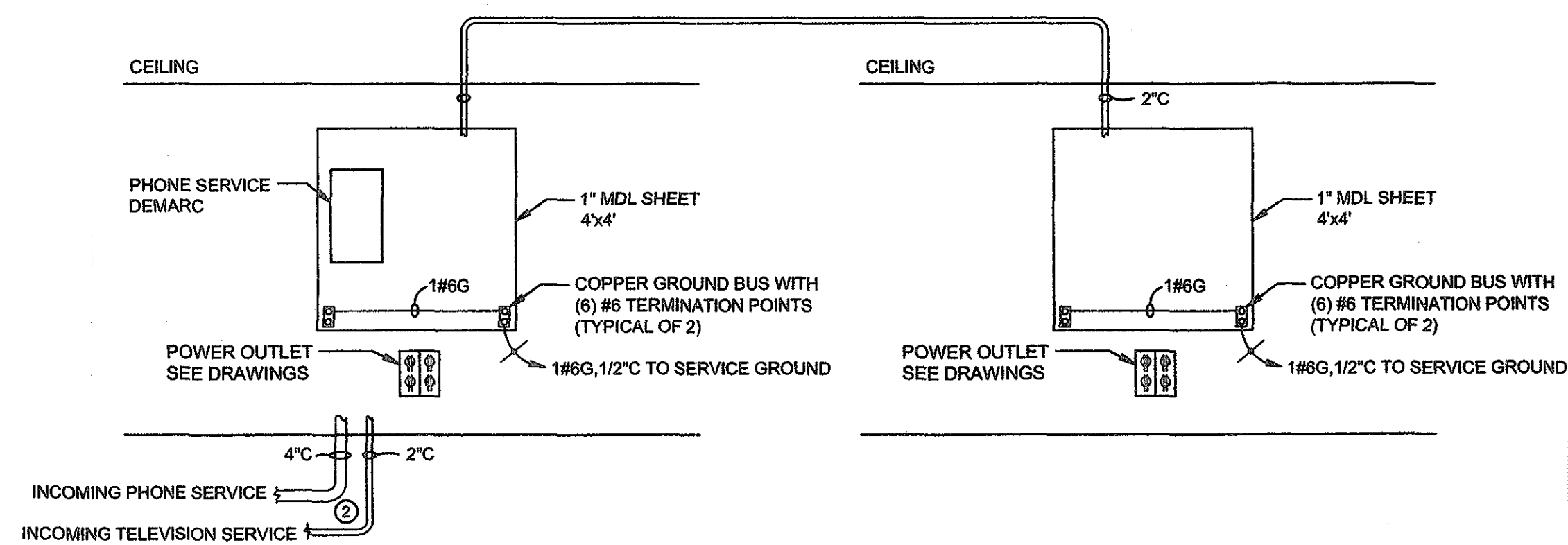
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SHEET
E2.0S



PARKING LOT
POLE BASE DETAIL

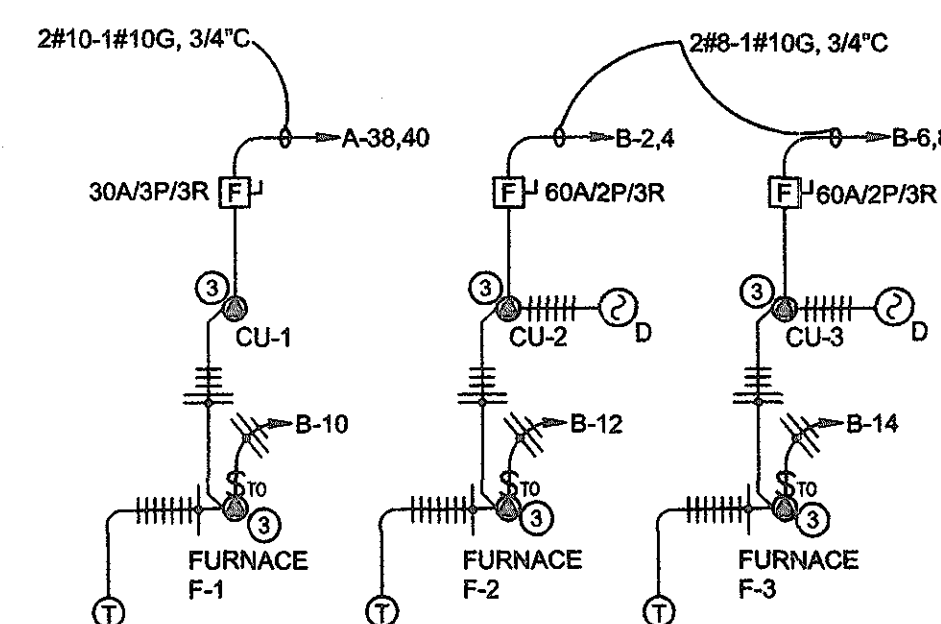
POLE BASE DETAIL

SCALE: NT6



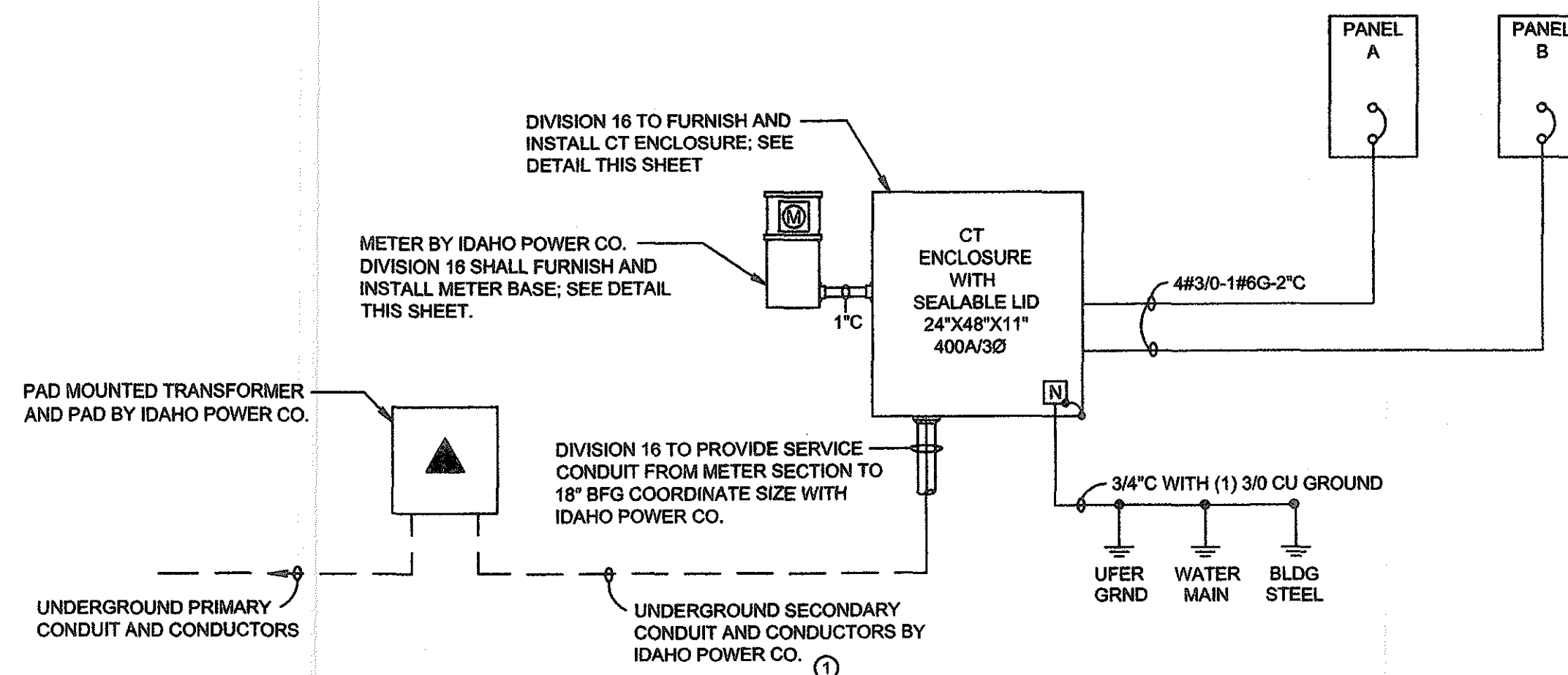
COMPUTER AND TELEPHONE TERMINAL BOARD DETAIL

SCALE: NT6



HVAC DETAIL

SCALE: NT6



ONE-LINE DIAGRAM 208Y/120 3Ø, 4W 22K AIC

SCALE: NT6

GENERAL NOTES

- COORDINATE ALL UNDERGROUND SITE WORK WITH OTHER DISCIPLINES TO AVOID REWORK.
- ALL IN-GRADE JUNCTION BOXES TO BE FIBERGLASS 12"x12"x18" DEEP, WITH LID LABELED "ELECTRICAL". FINISH ELEVATION OF TOP OF LID TO BE FLUSH WITH FINISHED GRADE; UNLESS NOTED OTHERWISE.
- ALL PENETRATIONS THROUGH SLAB ARE TO BE PVC COATED RIGID CONDUIT, SCOTCH WRAP IS NOT PERMITTED.
- ALL UNDERGROUND CONDUIT SHALL BE 1" SCHEDULE 40 PVC; UNLESS NOTED OTHERWISE.
- UTILIZE JOINT TRENCH WITH IDAHO POWER COMPANY FOR ROUTING OF COMMUNICATION CONDUITS TO PEDESTALS NEAR IDAHO POWER CO. TRANSFORMERS.

KEYED NOTES

- NEW UNDERGROUND SECONDARY BY IDAHO POWER CO. SEE SHEET E3.0 FOR FURTHER INFORMATION.
- (1) 4" EMPTY CONDUIT FOR TELECOMMUNICATIONS AND (1) 2" EMPTY CONDUIT FOR CATV, STUB CONDUITS TO EDGE OF PROPERTY LINE AS INDICATED, CAP, MARK AND PROVIDE PULL LINE. STUB CONDUITS 6" AFF BELOW TTB. ALL 90 DEG. BENDS SHALL BE FACTORY BENT LONG SWEEPING 90S.
- EQUIPMENT CONNECTION POINT. VERIFY TYPE OF CONNECTION WITH EQUIPMENT SUPPLIER. DIVISION 16 SHALL SUPPLY ALL RACEWAY AND CONDUCTORS UNLESS NOTED OTHERWISE.

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E3.0

ONE-LINE DIAGRAM AND DETAILS

SCALE: NT6

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LIGHTING FIXTURE SCHEDULE FOR RAYCO									
TYPE	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	MOUNTING	LAMPS	VOLTAGE	REMARKS		
EXIE	EXIT LIGHT, LED, RED STENCIL, THERMOPLASTIC HOUSING, SINGLE OR DOUBLE FACE	ASTRAITE	CELLUVIEW	ABOVE DOOR	WITH FIXTURE	120/277			
FLD1	STEM MOUNTED FLOOR LIGHT	KIM	AFL-13-102PMH-120-DBP WITH RIGID CONDUIT RISER, PD BOX & COVER	STEM MOUNTED	100 PMH	120/277			
GF1	GRID FLUORESCENT, 2' X 4', 3-LAMP 3' PARABOLIC LOUVERS, 18 CELL(48)	COLUMBIA NO.	P4D24-332G-4A36-S-EB8-UNV	CEILING RECESSED	(3) 32W T8 3500K	120/277			
GF1E	GRID FLUORESCENT, 2' X 4', 3-LAMP 3' PARABOLIC LOUVERS, 18 CELL(48) EMERGENCY BATTERY PACK	COLUMBIA NO.	P4D24-332G-4A36-S-EB8-UNV	CEILING RECESSED	(3) 32W T8 3500K	120/277	4		
GF2	GRID FLUORESCENT, 2' X 2', 3-LAMP 3' PARABOLIC LOUVERS, 9 CELL(36)	COLUMBIA NO.	P4D22-232UG-4A36-S-EB8-UNV	CEILING RECESSED	(2) 32W T8 3500K	120/277			
PM1	POLE MOUNTED SQUARE SOFT CORNER ALUMINUM HOUSING, GASKETED LENS, METAL HALIDE, SINGLE HEAD, 25 FT. POLE W/ BASE COVER	SPALDING NO.	DN-AH25-14-F-2-DB POLE: 355-25-40-1-A1-DB	POLE ARM MOUNTED	(1) 250W MH	MULTI			
RF1	ROUND RECESSED, COMPACT FLUORESCENT, 6" OPEN LOW BRIDGESCENT REFLECTOR, HORIZONTAL LAMP	PRESCOLITE	TBWC-T0668	CEILING RECESSED	(1) 32W T8 3500K	120/277			
RF1E	ROUND RECESSED, COMPACT FLUORESCENT, 6" OPEN LOW BRIDGESCENT REFLECTOR, HORIZONTAL LAMP EMERGENCY BALLAST	PRESCOLITE	TBWC-T0668	CEILING RECESSED	(1) 32W T8 3500K	120/277	4		
WF1E	WALL BRACKET FLUORESCENT, 4FT, 2-LAMP DOWN LIGHT DISTRIBUTION ACRYLIC LENS EMERGENCY BATTERY PACK	COLUMBIA NO.	WAL-4-250-EB8UNV	WALL ABOVE MIRROR	(2) 32W T8 3500K	120/277	4		
WFL1	WISDOM FLOOR LIGHT	KIM	LTV10-70MH-120 W/ GRAVEL WEEP DRAIN PER KIM IN GROUND DETAILS FOR COMPOSITE HOUSING	IN GRADE	(1) 70 MH	120/277			
REMARKS									
1. PROVIDE DUAL BALLASTS FOR DUAL LEVEL SWITCHING OR PRE-80 APPROVED EQUAL									
3. PROVIDE WITH 50W QUARTZ BAYONETTE STYLE LAMP FOR EMERGENCY LIGHTING									
4. PROVIDE WITH 800ME EMERGENCY BATTERY PACK SUITABLE FOR LAMP TYPE AND HALF THE LAMP LUMEN OUTPUT.									
NOTE TO BIDDERS:									
1. BID ONLY PRODUCTS THAT ARE SPECIFIED OR APPROVED VIA ADDENDUM. SUBMITTED ITEMS NOT APPROVED VIA ADDENDUM WILL BE REJECTED									
2. PACKAGING OF LIGHT FIXTURES WITH OTHER SYSTEMS IS NOT ALLOWED									
3. WHEN ONLY ONE PRODUCT IS APPROVED FOR BIDDING, THE PRICE FOR THAT ITEM SHALL BE BROKEN OUT SEPARATELY WHEN SUBMITTING PRICING TO THE VARIOUS DISTRIBUTORS AND/OR CONTRACTORS AS REQUESTED.									

PANEL: PANEL A		PROJECT: RAYCO		ENCLOSURE TYPE: NEMA 1, LOCKABLE													
VOLTAGE: 208Y/120		PHASE: 3		WIRE: 4		AMPERE RATING: 200 AMPS		SC RATING: 22000 AC									
ENTRY: TOP/BOTTOM						TYPE: MER		MOUNTING: SURFACE									
REMARKS:																	
OKT NO.	DESCRIPTION	AMPS/POLES	LOAD W	LOAD W	WIRE SIZE	PHASE (M) A B C			WIRE SIZE	LOAD W	AMPS/POLES	DESCRIPTION	OKT NO.				
1	LTG WORK AREA	20 1	1152	3.6	12	1512			12	3.6	20 1	REC FLOOR BOX	2				
3	LTG WORK AREA	20 1	1248	10.4	12		1608		12	3.0	20 1	REC FLOOR BOX	4				
5	LTG WORK AREA	20 1	1200	10.0	12			1560	12	3.0	20 1	REC FLOOR BOX	6				
7	LTG EXTERIOR IN	20 1	450	3.6	12	810			12	3.0	20 1	REC FLOOR BOX	8				
9	LTG EXTERIOR IN	20 2	450	3.6	12		810		12	3.0	20 1	REC FLOOR BOX	10				
11	"	20 2	450	3.6	12			810	12	3.0	20 1	REC FLOOR BOX	12				
13	REC RM 108.102	20 1	800	7.5	12	1260			12	3.0	20 1	REC FLOOR BOX	14				
15	REC RM 108.102	20 1	1200	10.0	12		1560		12	3.0	20 1	REC FLOOR BOX	16				
17	REC RM 108.102	20 1	800	7.5	12			1260	12	3.0	20 1	REC FLOOR BOX	18				
19	REC RM 108.107	20 1	1000	9.0	12	1440			12	3.0	20 1	REC FLOOR BOX	20				
21	REC EXTERIOR	20 1	1260	10.5	12		1620		12	3.0	20 1	REC FLOOR BOX	22				
23	REC RM 104.105.102	20 1	720	6.0	12			1080	12	3.0	20 1	REC FLOOR BOX	24				
25	REC RM 103	20 1	540	4.5	12	900			12	3.0	20 1	REC FLOOR BOX	26				
27	DISHWASHER	20 1	1600	12.5	12		1860		12	3.0	20 1	REC FLOOR BOX	28				
29	CARBON DISPOSER	20 1	1200	10.0	12			1560	12	3.0	20 1	REC FLOOR BOX	30				
31	SPARE	20 1	0.0	0.0	12	360			12	3.0	20 1	REC FLOOR BOX	32				
33	SPARE	20 1	0.0	0.0	12		360		12	3.0	20 1	REC FLOOR BOX	34				
35	SPARE	20 1	0.0	0.0	12			360	12	3.0	20 1	REC FLOOR BOX	36				
37	SPARE	20 1	0.0	0.0	12	2244			10	18.7	2244	30 2	CLH	38			
39	SPARE	20 1	0.0	0.0	12		2244		10	18.7	2244	30 2	CLH	40			
41	SPARE	20 1	0.0	0.0	12			2244	10	0.0	20 1	SPARE	42				
CONNECTED LOAD - TOTAL KW				25	KW												
CONNECTED LOAD - TOTAL AMPS				62	AMPS												
DEMAND LOAD - TOTAL KW				22	KW												
DEMAND LOAD - TOTAL AMPS				52	AMPS												

PANEL: PANEL B		PROJECT: PROJECT NAME				ENCLOSURE TYPE: NEMA 1, LOCKABLE								
VOLTAGE: 208Y/120		PHASE: 3		WIRE: 4		AMPERE RATING: 200 AMPS		SC RATING: 22000 AC						
ENTRY: TOP/BOTTOM						TYPE: MER		MOUNTING: SURFACE						
REMARKS:														
OKT NO.	DESCRIPTION	AMPS/ POLES	LOAD W	LOAD W	WIRE SIZE	PHASE (W)			WIRE SIZE	LOAD W	AMPS/ POLES	DESCRIPTION	OKT NO.	
1	REC RM 102	20 1	540	4.5	12	810			8	29.2	3584	30 2	AVC UNIT 2	2
3	REC RM 113.100	20 1	1260	10.5	12		6764		8	29.2	3584	30 **	**	4
5	REC RM 101	20 1	220	2.0	12			4224	8	29.2	3584	50 2	AVC UNIT 3	6
7	WATER HEATER	30 2	2250	18.0	10	5754			8	29.2	3584	50 **	**	8
9	**	30 **	2250	18.0	10		3114		12	7.2	864	20 1	FURNACE 1	10
11	OVEN	50 2	2500	20.0	8			4156	12	13.8	1656	20 1	FURNACE 2	12
13	**	50 **	2500	20.0	8	4156			12	13.8	1656	20 1	FURNACE 2	14
15	TTB	20 1	500	4.2	12		880		12	1.5	180	20 1	REC DETECTOR	16
17	COMP 108	20 1	1200	10.0	12			1400	12	1.7	200	20 1	SHAKE DETECTORS	18
19	COMP 108	20 1	1200	10.0	12	1560			12	3.0	360	20 1	FLOOR BOXES	20
21	LIGHTING CONTROL	20 1	900	4.2	12		860		12	3.0	360	20 1	FLOOR BOXES	22
23	EQUIPMENT LTO/REC	20 1	1320	11.0	12			1600	12	3.0	360	20 1	FLOOR BOXES	24
25	COMP TERMINAL BOARD	20 1	360	3.0	12	1560			12	10.0	1200	20 1	EXTERIOR FLOORS	26
27	REC MILLWORK 108	20 1	540	4.5	12		540		12	0.0	0.0	20 1	SPARE	28
29	SPARE	20 1	0.0	0.0	12			0	12	0.0	0.0	20 1	SPARE	30
31	SPARE	20 1	0.0	0.0	12	0			12	0.0	0.0	20 1	SPARE	32
33	SPARE	20 1	0.0	0.0	12		0		12	0.0	0.0	20 1	SPARE	34
35	SPARE	20 1	0.0	0.0	12			0	12	0.0	0.0	20 1	SPARE	36
37	SPARE	20 1	0.0	0.0	12	0			12	0.0	0.0	20 1	SPARE	38
39	SPARE	20 1	0.0	0.0	12		0		12	0.0	0.0	20 1	SPARE	40
41	SPARE	20 1	0.0	0.0	12				12	0.0	0.0	20 1	SPARE	42
CONNECTED LOAD - TOTAL KW			36		KW		12074		5553		11480			
DEMAND LOAD - TOTAL AMPS			187		AMPS		142		83		98			
DEMAND LOAD - TOTAL KW			36		KW									
DEMAND LOAD - TOTAL AMPS			187		AMPS									

LIGHTING CONTROL PANEL SCHEDULE						
RELAY OUTPUTS						
Elect Panel	Ckt	Relay	Relay Name	Relay Notes		NOTES
A	01	01	Relay 1	SWITCHED		
A	03	02	Relay 2	SWITCHED		
A	05	03	Relay 3	SWITCHED		
A	07	04	Relay 4	PHOTCELL ON/OFF		1
SPARE		05	Relay 5			
SPARE		06	Relay 6			
SPARE		07	Relay 7			
SPARE		08	Relay 8			
SPARE		09	Relay 9			
SPARE		10	Relay 10			
SPARE		11	Relay 11			
SPARE		12	Relay 12			
SPARE		13	Relay 13			
SPARE		14	Relay 14			
SPARE		15	Relay 15			
SPARE		16	Relay 16			
LIGHTING CONTROL RELAY PANEL INFORMATION						
Job Name			Panel Type			
RAYCO			NEXTLITE			
NOTES:						
1) The relays shall be controlled: photocell on , timeclock off.						

ELECTRICAL LOAD SUMMARY									
PANEL AND/OR EQUIPMENT		ELECTRICAL LOAD (KVA)						CONNECTED LOAD	
		VOLTAGE	LIGHTING	REC.	MOTORS	KITCHEN	HVAC	MISC.	ELEC. HEAT
PANEL A	208Y/120	5.0	15.8	0.0	0.0	4.5	0.0	0.0	0.0
PANEL B	208Y/120	1.2	7.6	0.0	0.0	18.2	7.0	0.0	4.5
TOTAL (NEW)		6.2	23.4	0.0	0.0	22.7	7.0	0.0	4.5

ELECTRICAL SCHEDULES

SCALE: NTS

Lighting Compliance Certificate

2003 IECC

COMcheck-EZ Software Version 3.0 Release 1
Data filename: S:\Project Directory\Construction Admin Projects\06069 BRS - Rayco\docs\06069_COMCHK.cck

Section 1: Project Information

Project Name: Rayco
Designer/Contractor: C200
Document Author: Jeff Smith

Section 2: General Information

Building Use Description by: Whole Building Type
Project Type: New Construction

Building Type: Office
Floor Area: 5173

Section 3: Requirements Checklist

THESE PLANS MUST
REMAIN ON THE
JOBSITE AT ALL TIMES

Issue Set

Boise City Planning & Development Services 120 N. Capitol Blvd. • P.O. Box 500 • Boise, Idaho 83701-0500 Phone 208/284-3801 • Fax 208/284-3814 • www.cityofboise.org, Inc.			
Contact Person: <u>Andrea Davis</u>		BID <u>06-02211</u> Phone <u>334-8370</u>	
Plan Routing	Date In	Date Out	Per/Initial
City Engineer	<u>8/14/06</u>	<u>8/14/06</u>	<u>HL</u>
Land Division	<u>8/14/06</u>	<u>8/14/06</u>	<u>HL</u>
Public Works	<u>8/14/06</u>	<u>8/14/06</u>	<u>HL</u>
ESC	<u>8/14/06</u>	<u>8/14/06</u>	<u>HL</u>
Planning	<u>8/14/06</u>	<u>8/14/06</u>	<u>HL</u>
Fire Dept.	<u>8/14/06</u>	<u>8/14/06</u>	<u>HL</u>
Plan Check	<u>8/14/06</u>	<u>8/14/06</u>	<u>HL</u>

RAYCO Office Building
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