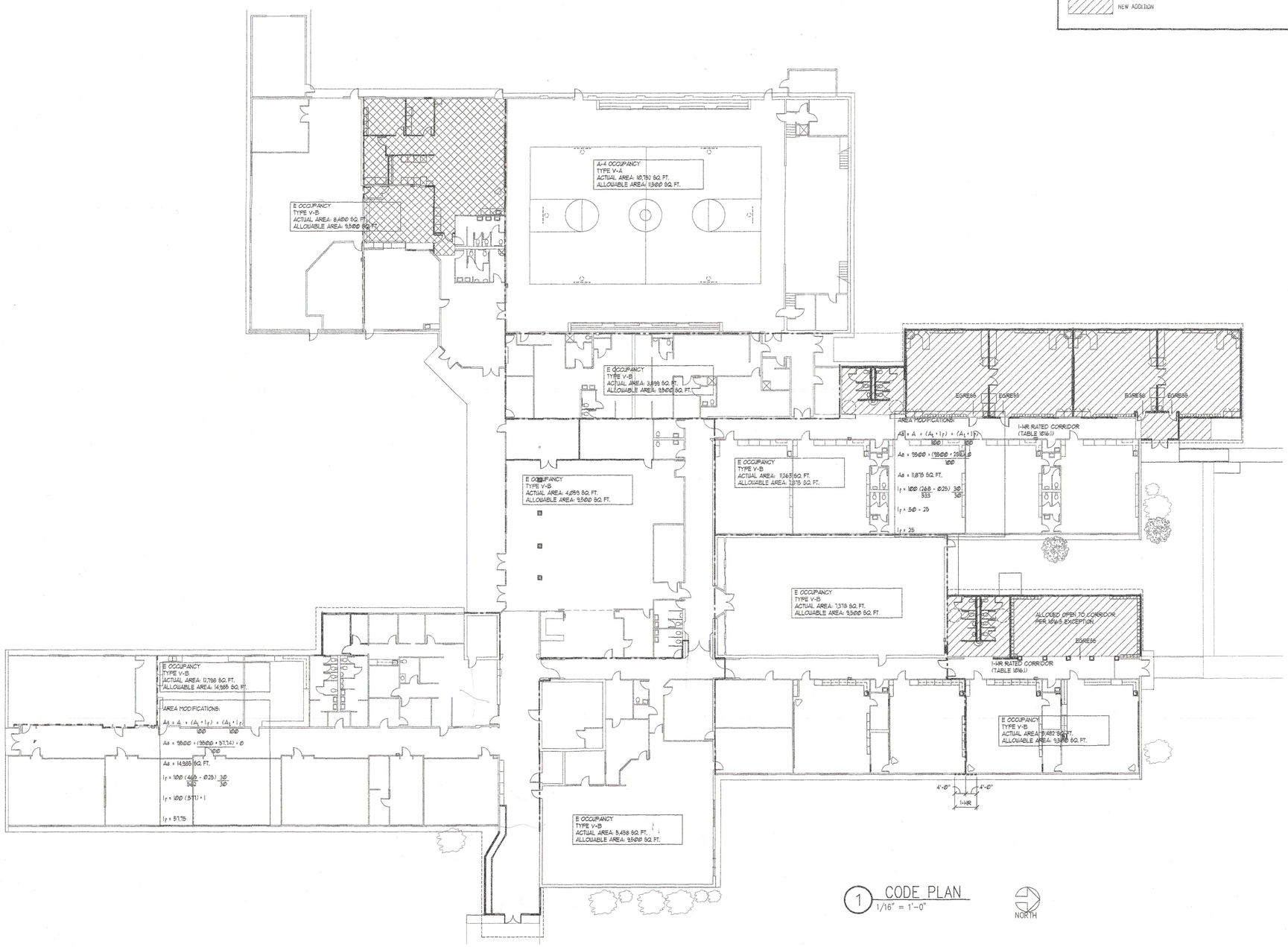
MODERNIZATION AND ADDITION TO:

PE ELL ELEMENTARY / MIDDLE SCHOOL

PE ELL SCHOOL DISTRICT NO. 301

PE ELL, WASHINGTON



1 CODE PLAN
1/16" = 1'-0"

NORTH

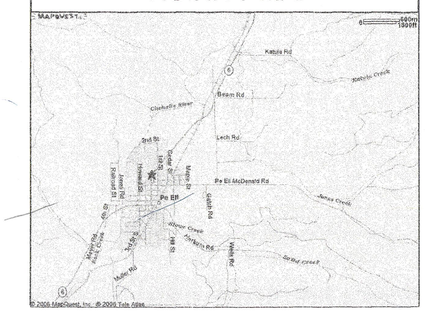
CODE PLAN LEGEND

- EXIST ONE-HOUR OCCUPANCY SEPARATION WALL
- EXIST 2-HOUR FIRE WALL
  UNDER THIS PROJECT THE INTENT IS NOT TO UPGRADE ALL 2-HOUR WALLS TO COMPLY WITH THE LETTER OF THE IBC (SUCH COMPLIANCE IS NOT REQUIRED PER IBC 3403)
- NEW 2-HOUR FIRE WALL WITH OPENINGS PROTECTED WITH MINIMUM 1 1/2 HOUR RATING
- RECONFIGURED AREA
- NEW ADDITION

PROJECT TEAM

OWNER:	PE ELL SCHOOL DISTRICT NO. 301 SUPERINTENDENT – SCOTT FENTER 319 N. 2ND ST PE ELL, WA 98572 PHONE: 360-291-3244 FAX: 360-291-3823
ARCHITECT:	JFC ARCHITECTS PRINCIPAL – JOHN F. CROOK 1106 DOUGLAS, SUITE G LONGVIEW, WA 98632 PHONE: 360-425-3030 FAX: 360-425-2525
STRUCTURAL:	ZIBENDEN CARTER ENGINEERING PROJECT MANAGER – JASON STANEK 10121 S.E. SUNNYSIDE ROAD CLACKAMAS, OR 97015 PHONE: 503-659-2205 FAX: 503-659-2433
MECHANICAL:	MKE & ASSOCIATES, INC. PROJECT MANAGER – RICHARD DUSA 9900 SW HALL BLVD., SUITE 110 TIGARD, OR. 97223 PHONE: 503 – 892-1188 FAX: 503 – 892-1190
ELECTRICAL:	ATHAY & ASSOCIATES PROJECT MANGER – RON ATHAY 9013 NE HIGHWAY 99, SUITE R, VANCOUVER, WASHINGTON 98665 PHONE: 360-574-0991 FAX: 360-423-3162

VICINITY MAP



INDEX TO DRAWINGS

GENERAL
A0.00 COVER SHEET, SITE PLAN, CODE PLAN
A0.1 PHASING PLAN

DEMO
D1.00 DEMO PLAN
D1.01 DEMO PLAN

ARCHITECTURAL
A2.01 FLOOR PLAN
A2.02 FLOOR PLAN
A2.03 ALTERNATE #1
A2.04 ALTERNATE #2
A2.05 ENLARGED TOILET PLANS & ADA DETAILS
A2.06 WALL TYPES
A3.00 ROOF PLAN
A3.01 ATTIC PLAN
A4.00 REFLECTED CEILING PLAN
A4.01 REFLECTED CEILING PLAN
A5.01 EXTERIOR ELEVATIONS
A6.01 BUILDING SECTIONS
A6.02 WALL SECTIONS
A7.01 INTERIOR ELEVATIONS
A7.02 INTERIOR ELEVATIONS
A7.03 INTERIOR ELEVATIONS
A7.04 INTERIOR DETAILS
A8.01 DOOR DETAILS
A8.02 WINDOW DETAILS

STRUCTURAL
S1.0 STRUCTURAL NOTES/SCHEDULES/ ABBREVIATIONS
S2.01 FOUNDATION PLANS
A2.02 FOUNDATION PLANS
S3.01 ROOF FRAMING PLANS
S3.02 ROOF FRAMING PLANS
S4.01 DETAILS

MECHANICAL
T0.01 LEGEND AND SYMBOLS
P02.01 PLUMBING DEMO PLANS
M02.01 HVAC DEMO PLAN
M02.02 HVAC DEMO PLAN
P2.00 SITE PLAN COLD/HOT WATER SYSTEM
P2.01 PLUMBING FLOOR PLAN
P2.02 HVAC FLOOR PLAN
P8.01 SCHEDULES & DETAILS
M2.01 HVAC FLOOR PLAN
M2.02 HVAC FLOOR PLAN
M8.01 HVAC SCHEDULES/DETAILS
M8.02 HVAC DETAILS

ELECTRICAL
E1.01 DEMO PLAN
E1.02 DEMO PLAN
E2.01 LIGHTING PLAN
E2.02 LIGHTING PLAN
E3.01 POWER PLAN
E3.02 POWER PLAN
E4.01 ONELINE DIAGRAM, PANEL SCHEDULES
E5.01 CAMERA LOCATIONS

SCHOOL BOARD MEMBERS

SCOTT FENTER – SUPERINTENDENT
BOARD MEMBERS: JERALD ELLIOTT
THOMAS MULLER
DALE MCCALDEN
KELLY FLOCK
COLLEEN BROOKS

JFC ARCHITECTS inc.
1106 DOUGLAS
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LONGVIEW, WA 98632
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DESCRIPTION	REV	DATE

ADDITIONS AND MODERNIZATIONS TO
PE ELL ELEMENTARY, MIDDLE AND HIGH SCHOOLS
PE ELL SCHOOL DISTRICT NO. 301
PE ELL, WASHINGTON

15 built

SEAL:

1977 REGISTERED ARCHITECT JOHN F. CROOK STATE OF WASHINGTON

JOB NUMBER: 2006.004

SHEET NUMBER: A0.0

CONTENTS: REFLECTED CEILING PLAN

DATE: 09/29/06

BID SET

PHASING PLAN LEGEND

CONSTRUCTION AREA

AREA OF CONSTRUCTION

PHASE 1

PHASE 2

PHASE 3

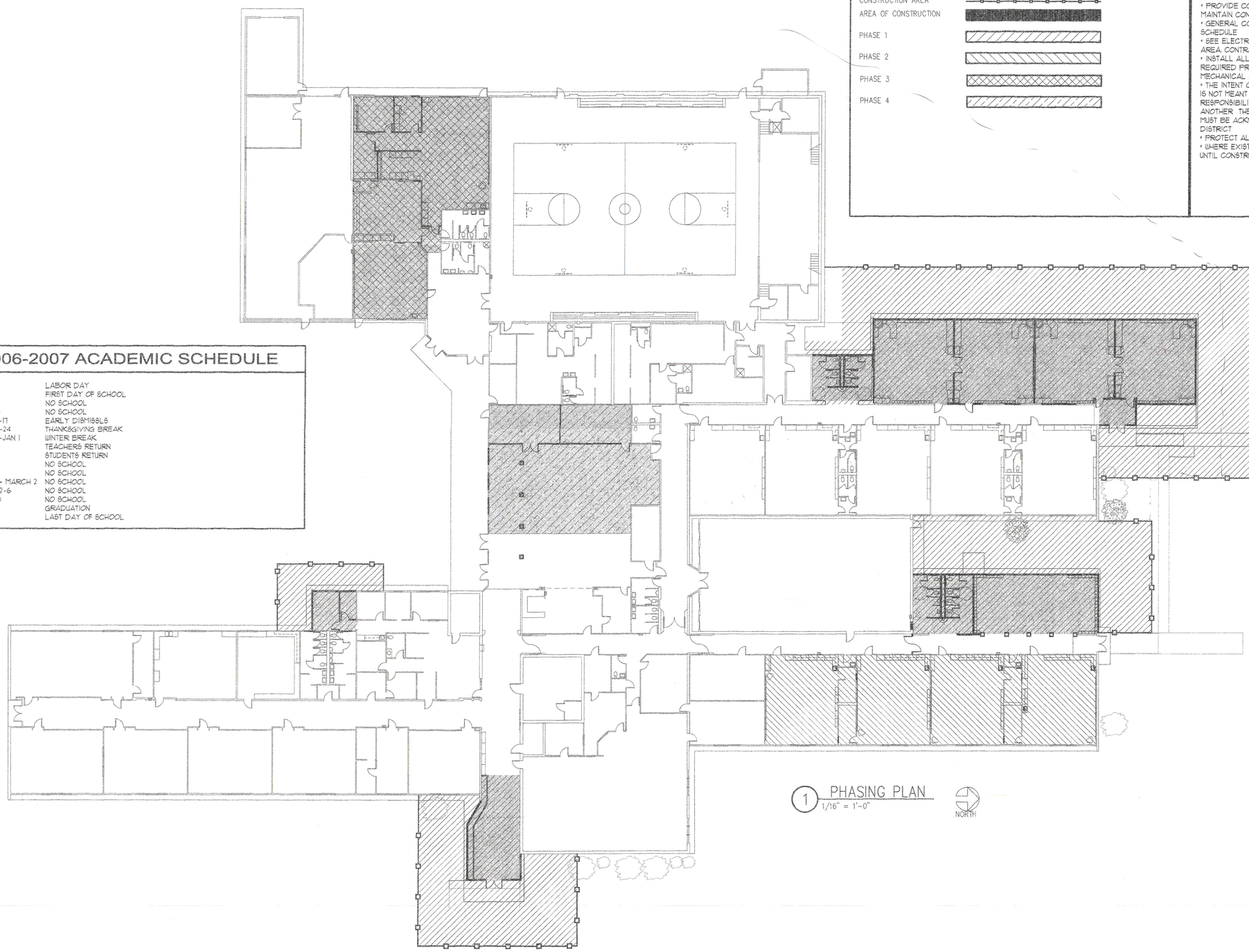
PHASE 4

PHASING PLAN NOTES

- PROVIDE CONSTRUCTION FENCING AROUND EACH AREA OF OPERATION AS REQUIRED TO MAINTAIN CONTRACTOR/ STUDENT SEPARATION
- GENERAL CONTRACTOR TO COORDINATE WITH OWNERS ASBESTOS CONTRACTORS SCHEDULE
- SEE ELECTRICAL AND MECHANICAL DRAWINGS FOR FOR SPECIFIC NOTES REGARDING EACH AREA. CONTRACTOR TO COORDINATE
- INSTALL ALL UNDERGROUND LINES AT WALKWAYS / ROADWAYS / PARKING AREAS AS REQUIRED PRIOR TO FINAL ASPHALT OR CONCRETE INSTALLATION. COORDINATE WITH MECHANICAL AND ELECTRICAL
- THE INTENT OF THE PHASING SCHEDULE IS TO SERVE AS A GUIDE FOR THE CONTRACTOR. IT IS NOT MEANT TO SHOW EVERY DETAIL IN EVERY PHASE. IT IS THE CONTRACTORS RESPONSIBILITY TO COORDINATE THE WORK AS IT PASSES FROM ONE AREA TO THE ANOTHER. THE DATE ARE CRITICAL FOR THE SCHOOLS EDUCATIONAL NEEDS. ANY CHANGE MUST BE ACKNOWLEDGED AND ACCEPTED BY BOTH THE ARCHITECT AND THE SCHOOL DISTRICT
- PROTECT ALL EXISTING COLUMNS AND BEAMS DURING CONSTRUCTION
- WHERE EXISTING ROOF AND WALLS ARE TO BE DEMOLISHED, SHORE EXISTING STRUCTURE UNTIL CONSTRUCTION IS COMPLETE

2006-2007 ACADEMIC SCHEDULE

SEPT 1	LABOR DAY
SEPT 4	FIRST DAY OF SCHOOL
OCT 13	NO SCHOOL
NOV 10	NO SCHOOL
NOV 13-17	EARLY DISMISSALS
NOV 22-24	THANKSGIVING BREAK
DEC 19-JAN 1	WINTER BREAK
JAN 2	TEACHERS RETURN
JAN 3	STUDENTS RETURN
JAN 15	NO SCHOOL
FEB 19	NO SCHOOL
FEB 28- MARCH 2	NO SCHOOL
APRIL 2-6	NO SCHOOL
MAY 28	NO SCHOOL
JUNE 8	GRADUATION
JUNE 13	LAST DAY OF SCHOOL



1 PHASING PLAN
1/16" = 1'-0"

NORTH

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ADDITIONS AND MODERNIZATIONS TO PE ELL ELEMENTARY, MIDDLE AND HIGH SCHOOLS

PE ELL SCHOOL DISTRICT NO. 301
PE ELL, WASHINGTON

SEAL:

1977 REGISTERED ARCHITECT JOHN F. CROOK STATE OF WASHINGTON

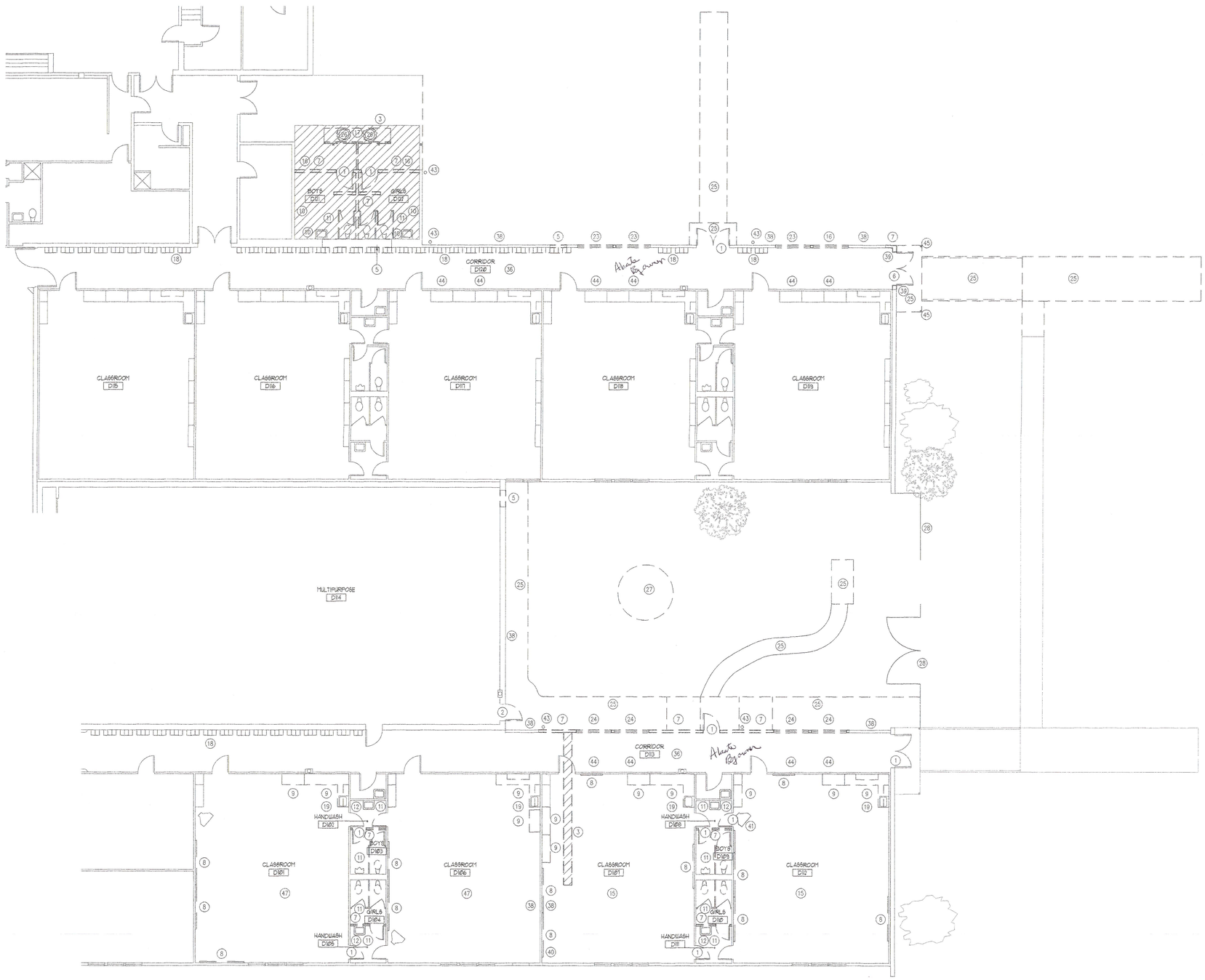
JOB NUMBER: 2006.004

SHEET NUMBER: A0.1

CONTENTS:
PHASING PLAN
SITE DETAILS

DATE: 09/29/06

BID SET



1 DEMO PLAN
1/8" = 1'-0"

DEMOLITION PLAN LEGEND

- EXISTING TO REMAIN
- DEMOLITION
- DEMOLITION OF WALL OR WALL PORTION
- DEMOLITION OF WINDOW AND FRAME
- DEMOLITION OF DOOR, HARDWARE (SALVAGE HARDWARE TO OWNER) (SEE DOOR SCHEDULE FOR EXIST. DOOR FRAMES TO REMAIN AND PLAN NOTE NO. 2 FOR EXISTING DOOR FRAMES TO BE REMOVED).
- (R) ### RELOCATE TO ROOM ###
- DEMOLISH (E) CONCRETE SLAB TO REMOVE EQUIPMENT PER MECHANICAL, FOR NEW FOOTING PLACEMENT PER STRUCTURAL, AND FOR NEW RESTROOMS / LOCKER ROOM SHOWER AREAS. REPLACE WITH NEW SLAB, SEE ALSO MECHANICAL FOR NEW FLOOR DRAIN LOCATIONS AND / OR ADDITIONAL SLAB DEMOLITION.

DEMOLITION PLAN NOTES

A. SALVAGE ALL WINDOW COVERINGS TO OWNER

B. CONTRACTOR SHALL CONTACT ARCHITECT IF ANY ITEMS NEED CLARIFICATION, PRIOR TO REMOVAL OF ITEM

C. REFER TO NEW FLOOR PLANS TO VERIFY EXTENT OF WALL DEMOLITION WHEN NOT SPECIFIC ON THIS PLAN

D. REMOVE PORTIONS OF EXISTING WORK NOT NECESSARILY SHOWN FOR INSTALLATION OF NEW ITEMS AND PATCH TO MATCH ADJACENT FINISHES

E. SHORE EXISTING STRUCTURAL ELEMENTS AS REQUIRED FOR NEW WORK

F. SEE DETAILS, STRUCTURAL, AND MECHANICAL DRAWINGS FOR ADDITIONAL DEMOLITION WORK NOT INDICATED ON THIS SHEET

G. FIELD VERIFY ALL EXIST. BUILDING DIMENSIONS

H. AFTER CHALKBOARD, CLOCK, ACCOUSTIC PANELS, DEMO AND ETC.. PATCH WALL AS REQUIRED TO MATCH EXIST ADJACENT SURFACES AT ANY AREA THAT WILL BE EXPOSED AT PROJECT COMPLETION.

I. THE ROOM NUMBERS CALLED OUT ON D SERIES DRAWINGS ONLY PERTAIN TO THE DEMO SHEETS. NEW ROOM NUMBERS ARE CALLED OUT ON A SERIES DRAWINGS

J. SEE INFORMATION BELOW FOR HAZARDOUS MATERIAL ABATEMENT.

K. NOT ALL IS SHOWN ON DRAWINGS. SEE STRUCTURAL, ELECTRICAL, & MECHANICAL DRAWINGS FOR ANY ADDITIONAL DEMO REQUIRED (I.E. NEW STRUCTURAL COLUMNS IN EXIST WALLS).

L. REMOVE AND SALVAGE CLOCK/ANNOUNCER FROM ALL ROOMS. PATCH WALL AS REQUIRED TO MATCH ADJACENT OR NEW FINISHES

M. PATCH FLOORS, WALLS AND CEILINGS AS NECESSARY @ DEMO AREAS TO MATCH NEW OR ADJACENT (E) FINISHES PER SCHEDULE

N. TOWEL, SOAP DISPENSERS, ETC. AT SINKS TO BE SALVAGED TO OWNER.

O. WHERE EXISTING WINDOWS AND DOORS/FRAMES ARE DEMOLISHED FOR NEW DOOR/FRAME ASSEMBLIES AND/OR WINDOWS, CONTRACTOR TO REFRAME OPENINGS AS REQUIRED FOR NEW ITEMS.

PHASING

1. COORDINATE DEMOLITION IN ALL AREAS WITH PHASING PLAN.

HAZARDOUS MATERIALS

1. SEE SPECIFICATION SECTION 02080 HAZARDOUS MATERIAL ABATEMENT FOR HAZARDOUS MATERIAL ABATEMENT INFORMATION AND THE RELATED HAZARDOUS MATERIAL LOCATION SURVEY.

KEY NOTES

1. DEMO EXIST. DOOR AND FRAME, ADJUST OPENING AS REQUIRED FOR NEW WORK OR INFILL PER PLANS.
2. REUSE DOOR AND FRAME AS DOOR 112A.
3. CONCRETE FLOOR DEMOLITION. SEE PLUMBING PLANS AND STRUCTURAL DRAWINGS FOR EXTENT.
4. DEMO CEILING TILE, INCLUDING GRIDS IF PRESENT.
5. DEMO EXIST WALL AS REQUIRED FOR NEW OPENING. COORDINATE WITH FLOOR PLAN SHEETS.
6. REUSE DOOR AND FRAME AS DOOR 113A.
7. DEMO WALL FINISHES AND STUDS. REMOVE / CAP UTILITIES AS REQUIRED. SEE NEW PLANS FOR EXTENT OF DEMOLITION – SHORE ADJACENT WALLS AND ROOF AS NECESSARY.
8. DEMO TACK BOARD AND WHITE BOARD, SALVAGE TO OWNER.
9. DEMO CASEWORK / SHELVES, SALVAGE TO OWNER.
10. DEMO CERAMIC TILE WALL AND BASE, DOWN TO STUDS.
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15. DEMO CARPET, PREPARE FLOOR FOR NEW FINISH PER FINISH SCHEDULE.
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17. DEMO SCREEN WALL.
18. REMOVE LOCKERS AND SLAVAGE TO OWNER
19. DEMO SINK, SALVAGE TO OWNER.
20. SALVAGE DOOR AND REUSE.
21. DEMO DRINKING FOUNTAIN AND CAP UTILITIES, SEE MECH.
22. REUSE DOOR AND FRAME AS DOOR 132A
23. RELOCATE WINDOW TO EXTERIOR WALL OF CAFETERIA 128, SEE SHEET A2.02 FOR LOCATION.
24. RELOCATE WINDOW TO ENTRY 100, SEE SHEET A2.01 FOR LOCATION.
25. DEMO WALKWAY, PREP FOR NEW WORK OR LANDSCAPE PER PLANS.
26. DEMO PLANTS, PREP AREA FOR NEW WORK PER PLANS.
27. REUSE DOOR AND FRAME AS DOOR 126A.
28. DEMO FENCE AND GATE, SALVAGE TO OWNER.
29. REUSE DOOR AND FRAME AS DOOR 139A.
30. DEMO POND.
31. REUSE DOOR AND FRAME AS DOOR 129A.
32. RELOCATE TV BRACKET TO ROOM D107, SEE A2 DRAWINGS FOR LOCATION.
33. DEMO ENHANCEMENT SOUND SYSTEM, RELOCATE TO ROOM D107.
34. DEMO ENHANCEMENT SOUND SYSTEM, RELOCATE TO ROOM D106.
35. DEMO WALL TO UNDERSIDE OF HEADER BEAM.
36. DEMO 1 LAYER VCT AND 1 LAYER OF VAT, ABATE.
37. REUSE DOOR AND FRAME AS DOOR 133A.
38. DEMO WALL FINISH ON THIS SIDE OF STUD.
39. DEMO BRICK AND WALL ENTIRELY ON AREA MARKED.
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45. DEMO STEEL COLUMS
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JFC ARCHITECTS inc.
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DESCRIPTION	REV	DATE

ADDITIONS AND MODERNIZATIONS TO PE ELL ELEMENTARY, MIDDLE AND HIGH SCHOOLS

PE ELL SCHOOL DISTRICT NO. 301
PE ELL, WASHINGTON

SEAL:
1877 REGISTERED ARCHITECT JOHN F. CROOK STATE OF WASHINGTON

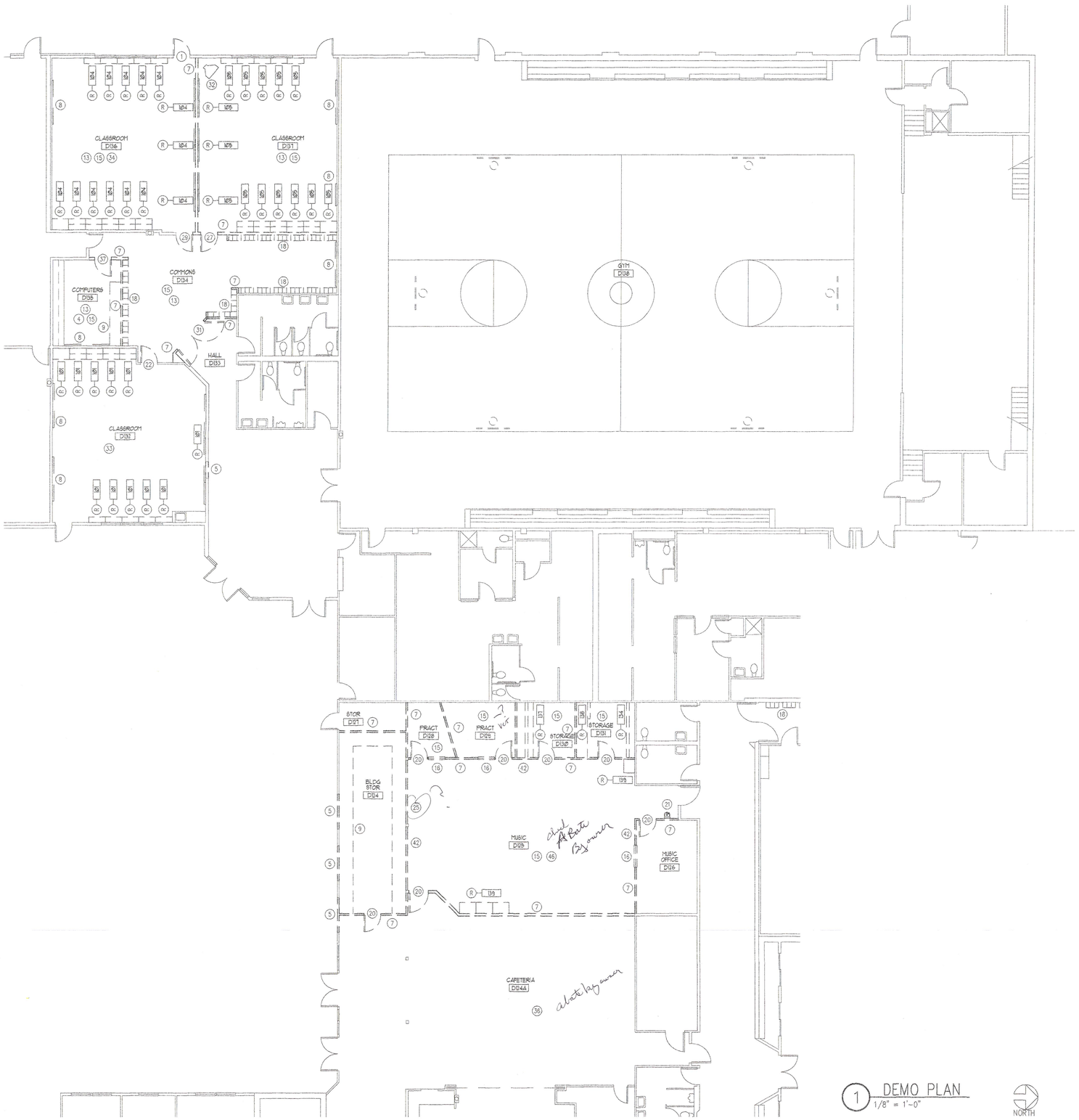
JOB NUMBER: 2006.004

SHEET NUMBER: D1.01

CONTENTS: DEMO PLAN

DATE: 09/29/06

BID SET



1 DEMO PLAN
1/8" = 1'-0"

NORTH

DEMOLITION PLAN LEGEND

- EXISTING TO REMAIN
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PE ELL SCHOOL DISTRICT NO. 301
PE ELL, WASHINGTON

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1877 REGISTERED ARCHITECT JOHN F. CROOK STATE OF WASHINGTON

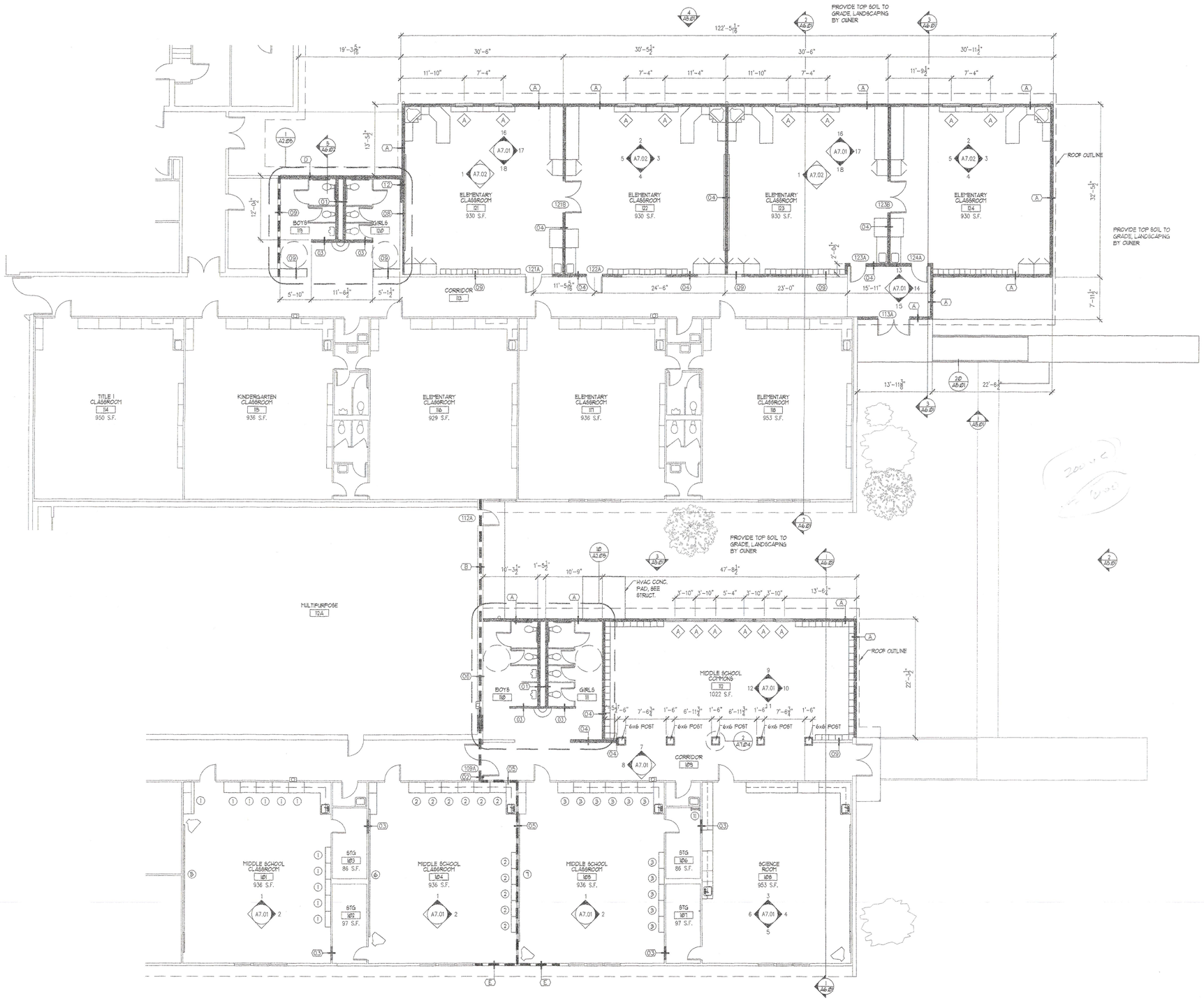
JOB NUMBER: 2006.004

SHEET NUMBER: D1.02

CONTENTS: DEMO PLAN

DATE: 09/29/06

BID SET



1 FLOOR PLAN
1/8" = 1'-0"

NORTH

LEGEND

- NEW WALLS - SEE SHEET A2.06 FOR WALL TYPES
- EXIST WALLS TO REMAIN
- INTERIOR ELEVATION TARGET - SEE A7 SERIES DWGS
- F.E.C. FIRE EXTINGUISHER/CABINET (SEMI-RECESSED) SEE
- (08A) DOOR TYPES & NUMBERS REF DOOR SCHEDULE
- WINDOW TYPES & NUMBERS REF SPEC SECTION 08810 AND SHEET A8.02
- NEW 2 HOUR WALL

GENERAL NOTES

1. SHOULD ANY OMISSIONS OR CONTRADICTIONS BE DISCOVERED IN THESE CONSTRUCTION DOCUMENTS, THEY SHOULD BE CALLED TO THE ATTENTION OF THE ARCHITECT PRIOR TO OPENING BIDS. BIDS RECEIVED SHALL BE CONSIDERED TO INCLUDE ALL ITEMS SHOWN, NOTED, AND/OR SPECIFIED FOR A COMPLETE PROJECT.
2. SEE INTERIOR ELEVATIONS FOR WHITE BOARDS, TACK BOARDS AND OTHER WALL MOUNTED ITEMS.
3. ALL PRODUCTS AND MATERIAL USED IN THIS PROJECT MUST BE CERTIFIED AS BEING 'ASBESTOS FREE' AND 'LEAD FREE' NO EXCEPTIONS.
4. CONTRACTOR SHALL SEAL AROUND ALL PENETRATIONS OF FIRE RATED WALLS, INCLUDING, BUT NOT LIMITED TO, PIPING DUCTS, CONDUIT, ETC. WITH FIRE-STOPPING PER UNIFORM BUILDING CODE REQUIREMENTS AS APPROVED. SEE SHEET A0.03A FOR ADDITIONAL INFORMATION.
5. CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF THE VAPOR BARRIER MEMBRANE AT FLOORS, WALLS, AND ROOF. BACKER ROD, SEALANT, AND OTHER APPROVED MEANS SHALL BE APPLIED CONTINUOUSLY AROUND ALL EXTERIOR DOOR AND WINDOW OPENINGS AND OTHER AREAS OF POTENTIAL AIR INFILTRATION, INCLUDING STRUCTURAL, MECHANICAL, AND ELECTRICAL PENETRATIONS. CONTRACTOR TO NOTIFY ARCHITECT IF NO EXIST VAPOR BARRIER IS FOUND. THE CONTRACTOR SHALL REPAIR ANY DAMAGE TO VAPOR BARRIERS, OR REPLACE THEM, PRIOR TO COVER, AS APPROVED.
6. DO NOT SCALE DRAWINGS. CONTACT ARCHITECT FOR ANY NEEDED CLARIFICATION.
7. IN THE EVENT OF CONFLICTING INFORMATION WITHIN THE DOCUMENTS, IMMEDIATELY CONTACT THE ARCHITECT FOR CLARIFICATION. PROCEEDING WITHOUT SUCH CLARIFICATION IS AT THE CONTRACTOR'S RISK AND COST.
8. PATCH ALL EXISTING PLASTER/GLUE/PLYWOOD WALLS AS REQUIRED TO MATCH EXIST ADJACENT SURFACES, INCLUDING THOSE PARTIALLY DEMOLISHED DUE TO REMOVAL OF FASTENERS, PLUMBING, MECHANICAL, ELECTRICAL DEVICES OR WALL DEMOLITION TYPICAL.
9. REFER TO REFLECTED CEILING PLANS, ELEVATIONS, SECTIONS, INTERIOR ELEVATIONS AND DETAILS FOR ADDITIONAL INFORMATION NOT SHOWN ON FLOOR PLANS.
10. GENERAL CONTRACTOR SHALL PROTECT EXPOSED CONCRETE SLAB FINISH DURING THE COURSE OF CONSTRUCTION TO ENSURE AN ACCEPTABLE FINISH. SEE DETAILS AND SPECIFICATIONS FOR BLOCKOUTS, FINISHING AND OTHER REQUIREMENTS.
11. ALL STANDARD (NON-BARRIER-FREE) TOILETS AND URINALS SHALL BE CENTERED IN THE STALL OR PARTITIONS AS APPLICABLE, UNLESS NOTED OTHERWISE. ALL BARRIER-FREE TOILETS, URINALS AND STALLS SHALL MEET CURRENT (ADA) AMERICANS WITH DISABILITIES ACT AND THE STATE OF WASHINGTON RULES AND REGULATIONS FOR BARRIER-FREE DESIGN. SEE 33/A2.15 FOR ADA REQUIREMENTS.
12. FIELD VERIFY ALL DIMENSIONS AT EXISTING BUILDING AREAS SHOWN TO REMAIN.
13. SEE STRUCTURAL DRAWINGS FOR NEW CONCRETE LOCATIONS
14. SEE ALSO INTERIOR ELEVATIONS AND MECHANICAL FOR PLUMBING FIXTURE PLACEMENT
15. ALL DIMENSIONS ARE TO FACE OF STUD UNLESS NOTED OTHERWISE
16. LOCATE DOORS 5 1/2" OFF ADJACENT WALL U.N.O.

KEY NOTES

1. CABINET RELOCATED FROM CLASSROOM D132
2. CABINET RELOCATED FROM CLASSROOM D136
3. CABINET RELOCATED FROM CLASSROOM D137
4. LOCKERS RELOCATED FROM CLASSROOM D134
5. TB & CB RELOCATED FROM CLASSROOM D132
6. TB & CB RELOCATED FROM CLASSROOM D136
7. TB & CB RELOCATED FROM CLASSROOM D137
8. CABINET RELOCATED FROM MUSIC D125
9. CABINET RELOCATED FROM STORAGE D131
10. CABINET RELOCATED FROM STORAGE D130
11. ACCESS LADDER, SEE DTL 1/A3.01
12. MOP SINK SEE MECHANICAL

JFC ARCHITECTS inc.
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FAX:(360) 425-2525

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DESCRIPTION	REV	DATE

ADDITIONS AND MODERNIZATIONS TO PE ELL ELEMENTARY, MIDDLE AND HIGH SCHOOLS

PE ELL SCHOOL DISTRICT NO. 301

PE ELL, WASHINGTON

SEAL:

1977 REGISTERED ARCHITECT JOHN F. CROOK STATE OF WASHINGTON

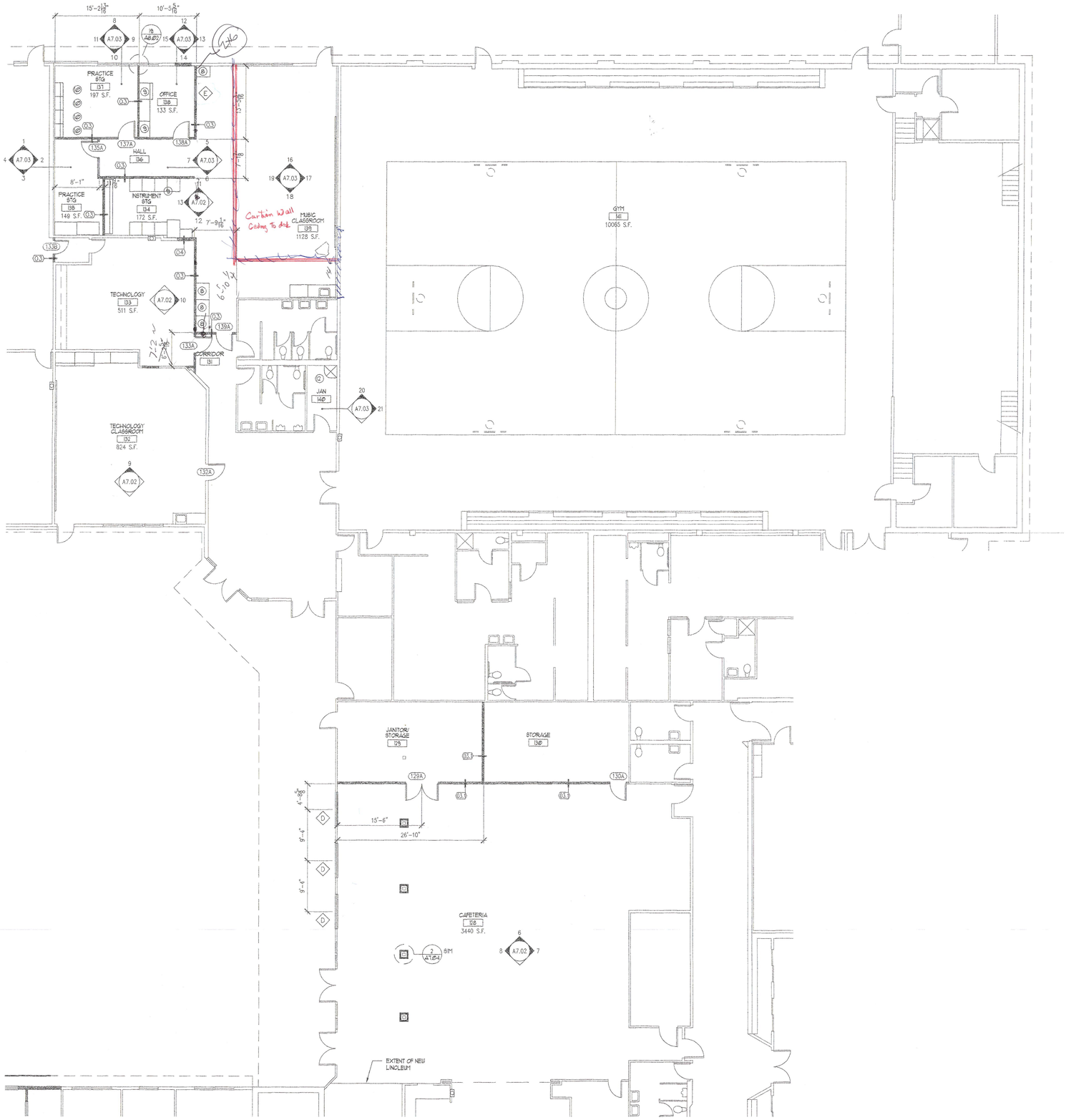
JOB NUMBER: 2006.004

SHEET NUMBER: A2.01

CONTENTS: ENLARGED FLOORPLAN

DATE: 09/29/06

BID SET



1 FLOOR PLAN
1/8" = 1'-0"

NORTH

LEGEND

- NEW WALLS - SEE SHEET A2.06 FOR WALL TYPES
- EXIST WALLS TO REMAIN
- INTERIOR ELEVATION TARGET - SEE A7 SERIES DWGS
- F.E.C. FIRE EXTINGUISHER/CABINET (SEMI-RECESSED) SEE
- (08A) DOOR TYPES & NUMBERS REF DOOR SCHEDULE
- (A) WINDOW TYPES & NUMBERS REF SPEC SECTION 08810 AND SHEET A8.01
- NEW 2 HOUR WALL

GENERAL NOTES

1. SHOULD ANY OMISSIONS OR CONTRADICTIONS BE DISCOVERED IN THESE CONSTRUCTION DOCUMENTS, THEY SHOULD BE CALLED TO THE ATTENTION OF THE ARCHITECT PRIOR TO OPENING BIDS. BIDS RECEIVED SHALL BE CONSIDERED TO INCLUDE ALL ITEMS SHOWN, NOTED, AND/OR SPECIFIED FOR A COMPLETE PROJECT.
2. SEE INTERIOR ELEVATIONS FOR WHITE BOARDS, TACK BOARDS AND OTHER WALL MOUNTED ITEMS.
3. ALL PRODUCTS AND MATERIAL USED IN THIS PROJECT MUST BE CERTIFIED AS BEING 'ASBESTOS FREE' AND 'LEAD FREE' NO EXCEPTIONS.
4. CONTRACTOR SHALL SEAL AROUND ALL PENETRATIONS OF FIRE RATED WALLS, INCLUDING, BUT NOT LIMITED TO, PIPING DUCTS, CONDUIT, ETC. WITH FIRE-STOPPING PER UNIFORM BUILDING CODE REQUIREMENTS AS APPROVED. SEE SHEET A0.03A FOR ADDITIONAL INFORMATION.
5. CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF THE VAPOR BARRIER MEMBRANE AT FLOORS, WALLS, AND ROOF. BACKER ROD, SEALANT, AND OTHER APPROVED MEANS SHALL BE APPLIED CONTINUOUSLY AROUND ALL EXTERIOR DOOR AND WINDOW OPENINGS AND OTHER AREAS OF POTENTIAL AIR INFILTRATION, INCLUDING STRUCTURAL, MECHANICAL, AND ELECTRICAL PENETRATIONS. CONTRACTOR TO NOTIFY ARCHITECT IF NO EXIST VAPOR BARRIER IS FOUND. THE CONTRACTOR SHALL REPAIR ANY DAMAGE TO VAPOR BARRIERS, OR REPLACE THEM, PRIOR TO COVER, AS APPROVED.
6. DO NOT SCALE DRAWINGS. CONTACT ARCHITECT FOR ANY NEEDED CLARIFICATION.
7. IN THE EVENT OF CONFLICTING INFORMATION WITHIN THE DOCUMENTS, IMMEDIATELY CONTACT THE ARCHITECT FOR CLARIFICATION. PROCEEDING WITHOUT SUCH CLARIFICATION IS AT THE CONTRACTOR'S RISK AND COST.
8. PATCH ALL EXISTING PLASTER/GWB/PLYWOOD WALLS AS REQUIRED TO MATCH EXIST ADJACENT SURFACES. INCLUDING THOSE PARTIALLY DEMOLISHED DUE TO REMOVAL OF FASTENERS, PLUMBING, MECHANICAL, ELECTRICAL DEVICES OR WALL DEMOLITION TYPICAL.
9. REFER TO REFLECTED CEILING PLANS, ELEVATIONS, SECTIONS, INTERIOR ELEVATIONS AND DETAILS FOR ADDITIONAL INFORMATION NOT SHOWN ON FLOOR PLANS.
10. GENERAL CONTRACTOR SHALL PROTECT EXPOSED CONCRETE SLAB FINISH DURING THE COURSE OF CONSTRUCTION TO ENSURE AN ACCEPTABLE FINISH. SEE DETAILS AND SPECIFICATIONS FOR BLOCKOUTS, FINISHING AND OTHER REQUIREMENTS.
11. ALL STANDARD (NON-BARRIER-FREE) TOILETS AND URINALS SHALL BE CENTERED IN THE STALL OR PARTITIONS AS APPLICABLE, UNLESS NOTED OTHERWISE. ALL BARRIER-FREE TOILETS, URINALS AND STALLS SHALL MEET CURRENT (ADA) AMERICANS WITH DISABILITIES ACT AND THE STATE OF WASHINGTON RULES AND REGULATIONS FOR BARRIER-FREE DESIGN. SEE 33/A2.15 FOR ADA REQUIREMENTS.
12. FIELD VERIFY ALL DIMENSIONS AT EXISTING BUILDING AREAS SHOWN TO REMAIN.
13. SEE STRUCTURAL DRAWINGS FOR NEW CONCRETE LOCATIONS
14. SEE ALSO INTERIOR ELEVATIONS AND MECHANICAL FOR PLUMBING FIXTURE PLACEMENT
15. ALL DIMENSIONS ARE TO FACE OF STUD UNLESS NOTED OTHERWISE
16. LOCATE DOORS 5 1/2" OFF ADJACENT WALL U.N.O.

KEY NOTES

1. CABINET RELOCATED FROM CLASSROOM D132
2. CABINET RELOCATED FROM CLASSROOM D136
3. CABINET RELOCATED FROM CLASSROOM D137
4. LOCKERS RELOCATED FROM CLASSROOM D134
5. TB & CB RELOCATED FROM CLASSROOM D132
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11. ACCESS LADDER, SEE DTL 1/A3.01
12. MOP SINK, SEE MECHANICAL

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DESCRIPTION	REV	DATE

ADDITIONS AND MODERNIZATIONS TO PE ELL ELEMENTARY, MIDDLE AND HIGH SCHOOLS

PE ELL SCHOOL DISTRICT NO. 301
PE ELL, WASHINGTON

SEAL:
REGISTERED ARCHITECT
JOHN F. CROOK
STATE OF WASHINGTON

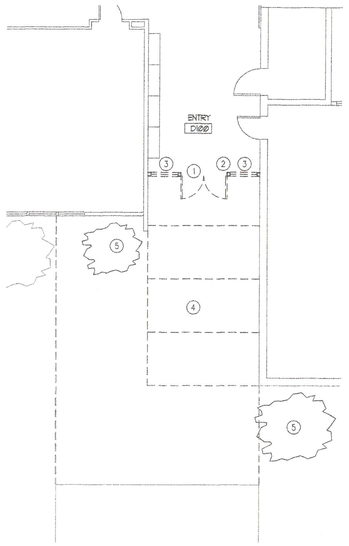
JOB NUMBER: 2006.004

SHEET NUMBER: A2.02

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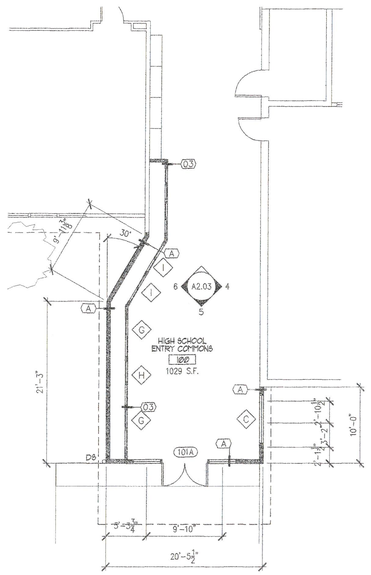
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BID SET



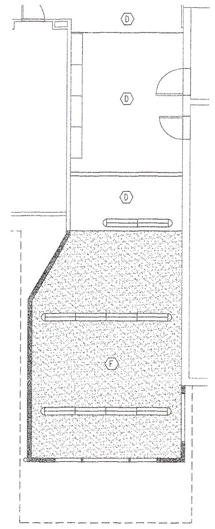
1 DEMO ENTRY FLOOR PLAN – ALT. #1
1/8" = 1'-0"

NORTH



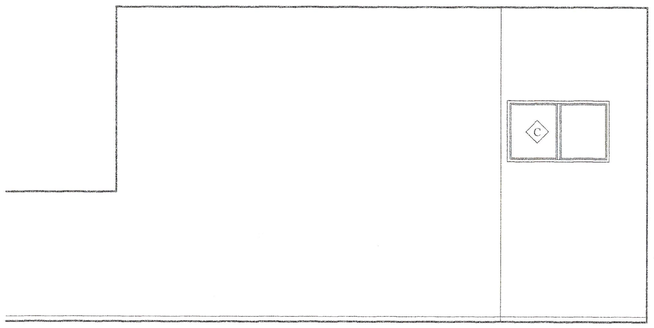
2 ENTRY FLOOR PLAN – ALT. #1
1/8" = 1'-0"

NORTH

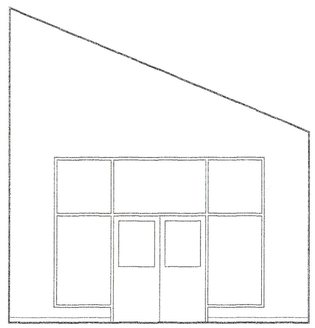


3 ENTRY REFELECTED CEILING PLAN – ALT. #1
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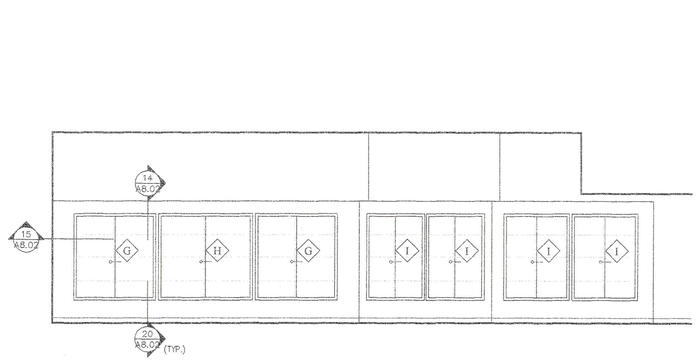
NORTH



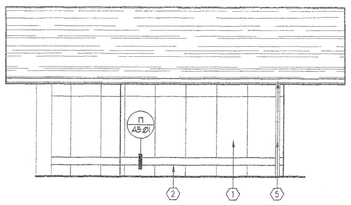
4 ENTRY 100
1/4" = 1'-0"



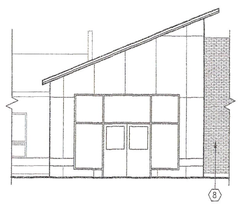
5 ENTRY 100
1/4" = 1'-0"



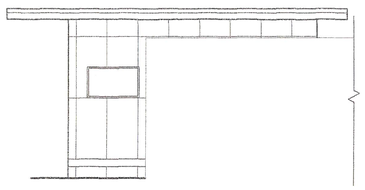
6 ENTRY 100
1/4" = 1'-0"



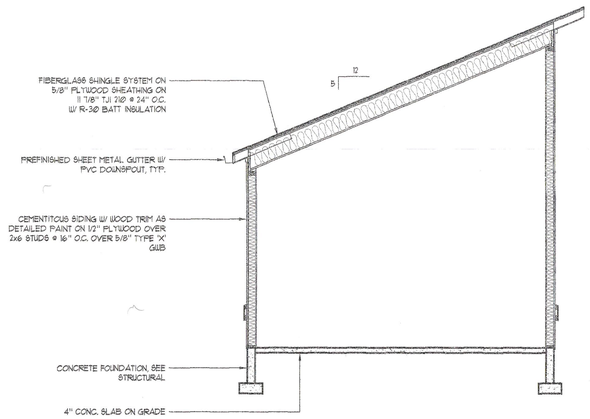
7 ENTRY SOUTH ELEVATION
1/8" = 1'-0"



8 ENTRY EAST ELEVATION
1/8" = 1'-0"



9 ENTRY NORTH ELEVATION
1/8" = 1'-0"



10 BUILDING SECTION
1/4" = 1'-0"

DEMOLITION PLAN LEGEND

- EXISTING TO REMAIN
- DEMOLITION
- DEMOLITION OF WALL OR WALL PORTION
- DEMOLITION OF WINDOW AND FRAME
- DEMOLITION OF DOOR, HARDWARE (SALVAGE HARDWARE TO OWNER) (SEE DOOR SCHEDULE FOR EXIST. DOOR FRAMES TO REMAIN AND PLAN NOTE NO. 2 FOR EXISTING DOOR FRAMES TO BE REMOVED).
- R ### — RELOCATE TO ROOM ###
- DEMOLISH (E) CONCRETE SLAB TO REMOVE EQUIPMENT PER MECHANICAL, FOR NEW FOOTING PLACEMENT PER STRUCTURAL, AND FOR NEW RESTROOMS / LOCKER ROOM SHOWER AREAS. REPLACE WITH NEW SLAB, SEE ALSO MECHANICAL FOR NEW FLOOR DRAIN LOCATIONS AND / OR ADDITIONAL SLAB DEMOLITION.

DEMOLITION PLAN NOTES

SEE SHEET D1.01

KEY NOTES

1. REUSE DOOR AND FRAME AS DOOR 101A.
2. DEMO WALL FINISHES AND STUDS. REMOVE / CAP UTILITIES AS REQUIRED. SEE NEW PLANS FOR EXTENT OF DEMOLITION – SHORE ADJACENT WALLS AS NECESSARY.
3. REUSE WINDOW AT NEW ENTRY.
4. DEMO WALKWAY, PREP FOR NEW WORK OR LANDSCAPE PER PLANS.
5. DEMO PLANTS, PREP AREA FOR NEW WORK PER PLANS.

FLOOR PLAN LEGEND

- NEW WALLS - SEE SHEET A2.06 FOR WALL TYPES
- EXIST WALLS TO REMAIN
- INTERIOR ELEVATION TARGET - SEE A8 SERIES DWGS
- F.E.C. — FIRE EXTINGUISHER/CABINET (SEMI-RECESSED) SEE
- 28A — DOOR TYPES & NUMBERS REF DOOR SCHEDULE
- A — WINDOW TYPES & NUMBERS REF SPEC SECTION 08810 AND SHEET A8.02

FLOOR PLAN GENERAL NOTES

1. SEE SHEET A2.01

FLOOR PLAN KEY NOTES

1. NA

RCP LEGEND

- GYPSUM WALLBOARD (GWB) CEILING
- 2' X 4' SUSPENDED T-BAR CEILING
- LIGHT FIXTURES - SEE ELECTRICAL
- CEILING DIFFUSERS - SEE MECHANICAL

RCP SHEET NOTES

1. SACT GRIDS TO BE PLACED CENTERED IN ROOMS SUCH THAT EQUAL DISTANCE IS MAINTAINED AT OPPOSITE WALLS, UNO.

RCP KEY NOTES

- A. 2x4 SACT @ 9'-0" AFF
- B. GWB @ 8'-6" AFF
- C. GWB @ 9'-0" AFF
- D. (E) TO REMAIN
- E. GWB @ 7'-6" AFF
- F. SLOPED GWB
- G. GLU-UP ACT @ 8'-0" AFF
- H. 2x4 SACT @ 8'-2" AFF, TO MATCH (E) ADJACENT

REVISED

JFC ARCHITECTS inc.
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LONGVIEW, WA 98632
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DESCRIPTION	REV	DATE

ADDITIONS AND MODERNIZATIONS TO PE ELL ELEMENTARY, MIDDLE AND HIGH SCHOOLS

PE ELL SCHOOL DISTRICT NO. 301
PE ELL, WASHINGTON

SEAL:
1377 REGISTERED ARCHITECT JOHN F. CROOK STATE OF WASHINGTON

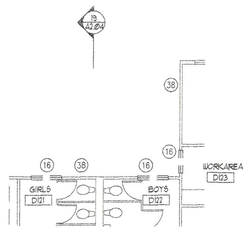
JOB NUMBER: 2006.004

SHEET NUMBER: A2.03

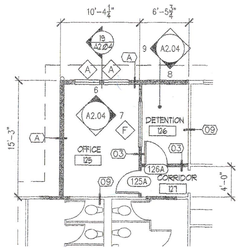
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DATE: 09/29/06

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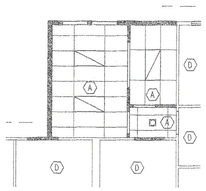


1 DEMO FLOOR PLAN – ALT #2
1/8" = 1'-0"

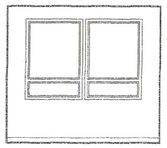


2 FLOOR PLAN – ALT #2
1/8" = 1'-0"

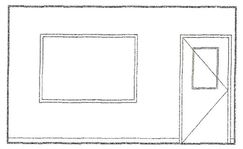
NORTH



3 RCP PLAN – ALT #2
1/8" = 1'-0"

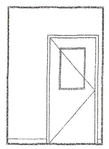


6 OFFICE 125
1/4" = 1'-0"

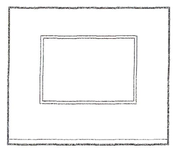


7 OFFICE 125
1/4" = 1'-0"

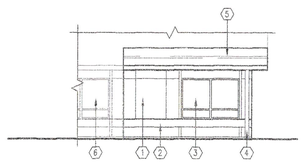
NORTH



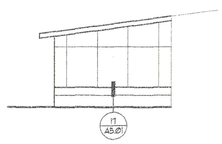
8 DETENTION 126
1/4" = 1'-0"



9 DETENTION 126
1/4" = 1'-0"



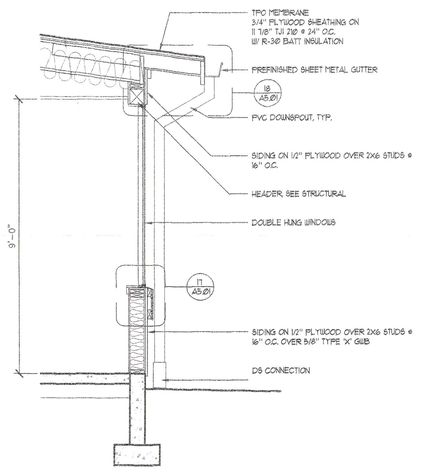
11 WEST ELEVATION
1/8" = 1'-0"



12 SOUTH ELEVATION
1/8" = 1'-0"

ELEVATION KEY NOTES

1. (N) SIDING
2. (N) PREFINISHED METAL TRIM
3. (N) VINYL HUNG WINDOWS
4. SHEET METAL GUTTER AND DOWNSPOUTS, TYP
5. TPO MEMBRANE
6. (E) WINDOW



19 WALL SECTION
1/8" = 1'-0"

DEMOLITION PLAN LEGEND

- EXISTING TO REMAIN
- DEMOLITION
- DEMOLITION OF WALL OR WALL PORTION
- DEMOLITION OF WINDOW AND FRAME
- DEMOLITION OF DOOR, HARDWARE (SALVAGE HARDWARE TO OWNER) (SEE DOOR SCHEDULE FOR EXIST. DOOR FRAMES TO REMAIN AND PLAN NOTE NO. 2 FOR EXISTING DOOR FRAMES TO BE REMOVED).
- R ### RELOCATE TO ROOM ###
- DEMOLISH (E) CONCRETE SLAB TO REMOVE EQUIPMENT PER MECHANICAL, FOR NEW FOOTING PLACEMENT PER STRUCTURAL, AND FOR NEW RESTROOMS / LOCKER ROOM SHOWER AREAS. REPLACE WITH NEW SLAB, SEE ALSO MECHANICAL FOR NEW FLOOR DRAIN LOCATIONS AND / OR ADDITIONAL SLAB DEMOLITION.

DEMOLITION PLAN NOTES

SEE SHEET D1.01

KEY NOTES

1. DEMO EXIST. DOOR AND FRAME, ADJUST OPENING AS REQUIRED FOR NEW WORK OR INFILL PER PLANS.
2. DEMO WALL FINISHES AND STUDS. REMOVE / CAP UTILITIES AS REQUIRED. SEE NEW PLANS FOR EXTENT OF DEMOLITION – SHORE ADJACENT WALLS AS NECESSARY.
3. DEMO WINDOW, SALVAGE TO OWNER.
4. DEMO WALKWAY, PREP FOR NEW WORK OR LANDSCAPE PER PLANS.
5. DEMO PLANTS, PREP AREA FOR NEW WORK PER PLANS.

FLOOR PLAN LEGEND

- NEW WALLS - SEE SHEET A2.11 FOR WALL TYPES
- EXIST WALLS TO REMAIN
- INTERIOR ELEVATION TARGET - SEE A8 SERIES DWGS
- F.E.C. FIRE EXTINGUISHER/CABINET (SEMI-RECESSED) SEE
- 126A DOOR TYPES & NUMBERS REF DOOR SCHEDULE
- A WINDOW TYPES & NUMBERS REF SPEC SECTION 08810 AND SHEET A8.02

FLOOR PLAN GENERAL NOTES

1. SEE SHEET A2.01

FLOOR PLAN KEY NOTES

1. NA

RCP LEGEND

- GYPSUM WALLBOARD (GWB) CEILING
- 2' X 4' SUSPENDED T-BAR CEILING
- LIGHT FIXTURES - SEE ELECTRICAL
- CEILING DIFFUSERS - SEE MECHANICAL

RCP SHEET NOTES

1. SACT GRIDS TO BE PLACED CENTERED IN ROOMS SUCH THAT EQUAL DISTANCE IS MAINTAINED AT OPPOSITE WALLS, UNO.

RCP KEY NOTES

- A 2x4 SACT @ 9'-0" AFF
- B GWB @ 8'-6" AFF
- C GWB @ 9'-0" AFF
- D (E) TO REMAIN
- E GWB @ 7'-6" AFF
- F SLOPED GWB
- G GLU-UP ACT @ 8'-0" AFF
- H 2x4 SACT @ 8'-2" AFF, TO MATCH (E) ADJACENT

JFC ARCHITECTS inc.
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DESCRIPTION	REV	DATE

ADDITIONS AND MODERNIZATIONS TO PE ELL ELEMENTARY, MIDDLE AND HIGH SCHOOLS

PE ELL SCHOOL DISTRICT NO. 301
PE ELL, WASHINGTON

SEAL:
1977 REGISTERED ARCHITECT JOHN F. CROOK STATE OF WASHINGTON

JOB NUMBER: 2006.004

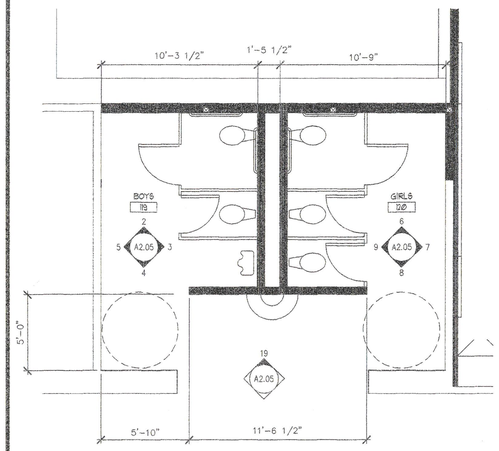
SHEET NUMBER: A2.04

CONTENTS: ALTERNATE 2

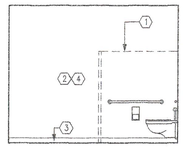
DATE: 09/29/06
BID SET

KEY NOTES

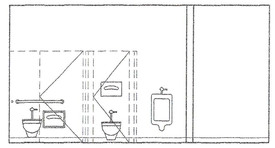
1. TOILET PARTITIONS TYP PER SPEC
2. MOISTURE RESISTANT 5/8" GWB, PAINT
3. RUBBER BASE
4. EPOXY PAINT PER ROOM FINISH SCHEDULE



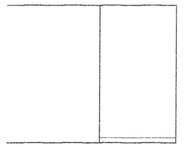
1 ENLARGED TOILET PLAN
1/4" = 1'-0"



2 BOYS
1/4" = 1'-0"



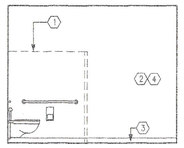
3 BOYS
1/4" = 1'-0"



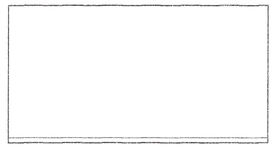
4 BOYS
1/4" = 1'-0"



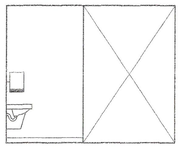
5 BOYS
1/4" = 1'-0"



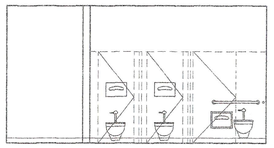
6 GIRLS
1/4" = 1'-0"



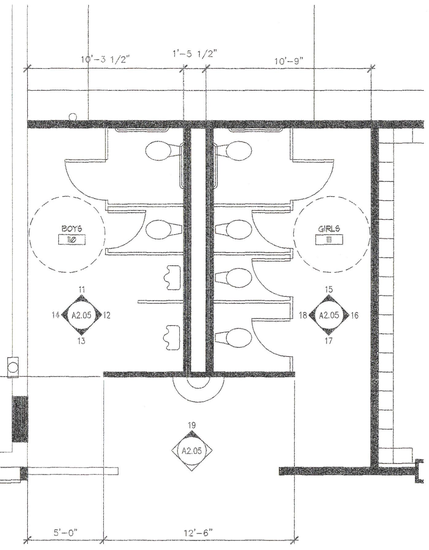
7 GIRLS
1/4" = 1'-0"



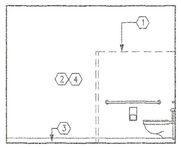
8 GIRLS
1/4" = 1'-0"



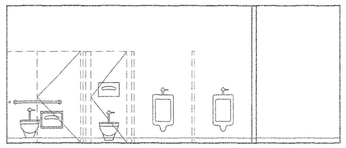
9 GIRLS
1/4" = 1'-0"



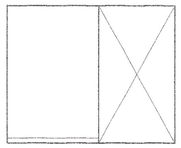
10 ENLARGED TOILET PLAN
1/4" = 1'-0"



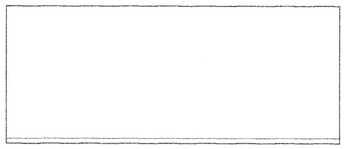
11 BOYS
1/4" = 1'-0"



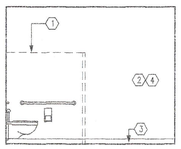
12 BOYS
1/4" = 1'-0"



13 BOYS
1/4" = 1'-0"



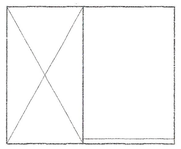
14 BOYS
1/4" = 1'-0"



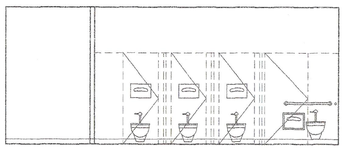
15 GIRLS
1/4" = 1'-0"



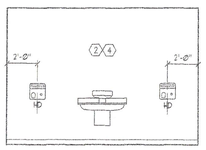
16 GIRLS
1/4" = 1'-0"



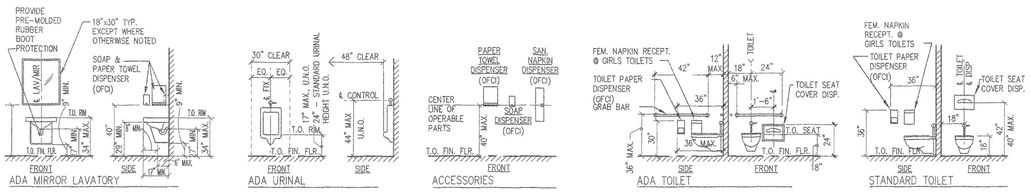
17 GIRLS
1/4" = 1'-0"



18 GIRLS
1/4" = 1'-0"



19 VESTIBULE
1/4" = 1'-0"



NOTE: EXTEND TILE BEHIND ALL TOILET ROOM ACCESSORIES

19 TOILET ROOM STANDARD FIXTURE MOUNTING HEIGHTS
1/4" = 1'-0"

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PE ELL SCHOOL DISTRICT NO. 301
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SEAL:
REGISTERED ARCHITECT
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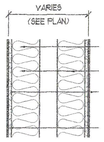
JOB NUMBER: 2006.004

SHEET NUMBER: A2.05

CONTENTS: ENLARGED TOILET PLANS

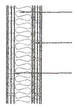
DATE: 09/29/06

BID SET



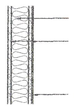
ACOUSTIC BATT INSULATION
(N) 2x6 @ 16" O.C.
5/8" MOISTURE RESISTANT TYPE 'X' GWB EA SIDE
WAINSCOT AS OCCURS PER FINISH SCHEDULE & INTERIOR ELEVATIONS

01



(N) 2x4 @ 16" O.C. W/ ACOUSTICAL BATT INSUL
1/2" PLYWOOD (SHEAR WALL), SEE STRUCT.
2 LAYERS 5/8" TYPE 'X' GWB EA. SIDE

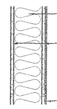
2 HOUR WALL
02 2 HOUR WALL



(N) 2x4 @ 16" O.C. W/ BATT INSUL
5/8" TYPE 'X' GWB EA. SIDE (MOISTURE RESISTANT @ ALL WET AREAS)
WAINSCOT AS OCCURS PER FINISH SCHEDULE & INTERIOR ELEVATIONS

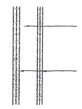
03

Ø3 NO INSULATION



(N) 2x6 @ 16" O.C. W/ BATT INSUL
5/8" TYPE 'X' GWB EA. SIDE (MOISTURE RESISTANT AT LOCKER ROOMS, RESTROOMS AND ALL WET AREAS)
WAINSCOT AS OCCURS PER FINISH SCHEDULE & INTERIOR ELEVATIONS

04



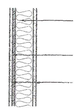
(E) 2x STUDS
2 LAYERS 5/8" TYPE 'X' GWB EA. SIDE

2 HOUR WALL
05 2 HOUR WALL



(E) 11 7/8" TJI
(2) LAYERS 5/8" TYPE 'X' GWB EA. SIDE

2 HOUR WALL
06 2 HOUR WALL



(N) 2x4 STUD @ 16" O.C. W/ BATT INSUL.
1/2" PLYWOOD, SEE STRUCT.
5/8" TYPE 'X' GWB (MOISTRUE RESISTANT @ PLUMBING WALL AREAS)

07



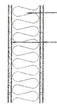
(E) BRICK
(N) 2x4 FURR
1 LAYER 5/8" TYPE 'X' GWB
5/8" TYPE 'X' GWB, SEE FINISH SCHEDULE FOR WAINSCOTT WHERE OCCURS

08 2 HOUR WALL



(E) 2x STUDS
(E) GWB
(N) 5/8" TYPE 'X' GWB
WAINSCOT WHERE OCCURS FER FINISH SCHEDULE & INTERIOR ELEVATIONS

09



(N) 2x6 @ 16" O.C. W/ BATT INSUL
5/8" TYPE 'X' GWB EA. SIDE

10



(E) 2x STUDS
(E) GWB
(E) SIDING ON PLYWOOD

11

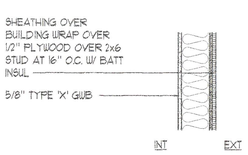


(N) 2x6 @ 16" O.C. W/ BATT INSUL
WAINSCOTT, SEE FINISH SCHEDULE & INTERIOR ELEVATIONS
(N) 2x4 FURR
5/8" TYPE 'X' GWB, SEE FINISH SCHEDULE FOR WAINSCOTT WHERE OCCURS

12

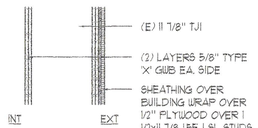
1 INTERIOR WALL TYPES

SCALE: N.T.S.



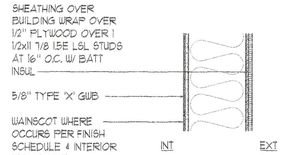
SHEATHING OVER BUILDING WRAP OVER 1/2" PLYWOOD OVER 2x6 STUD AT 16" O.C. W/ BATT INSUL
5/8" TYPE 'X' GWB
INT EXT

A



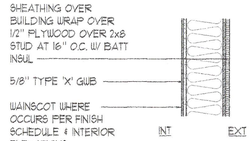
(E) 11 7/8" TJI
(2) LAYERS 5/8" TYPE 'X' GWB EA. SIDE
SHEATHING OVER BUILDING WRAP OVER 1/2" PLYWOOD OVER 1 1/2x11 7/8 1.5E LSL STUDS AT 16" O.C. W/ BATT INSUL
INT EXT

2 HOUR WALL
B 2 HOUR WALL



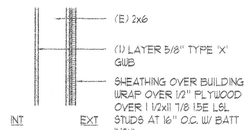
SHEATHING OVER BUILDING WRAP OVER 1/2" PLYWOOD OVER 1 1/2x11 7/8 1.5E LSL STUDS AT 16" O.C. W/ BATT INSUL
5/8" TYPE 'X' GWB
WAINSCOT WHERE OCCURS PER FINISH SCHEDULE & INTERIOR ELEVATIONS
INT EXT

C



SHEATHING OVER BUILDING WRAP OVER 1/2" PLYWOOD OVER 2x6 STUD AT 16" O.C. W/ BATT INSUL
5/8" TYPE 'X' GWB
WAINSCOT WHERE OCCURS PER FINISH SCHEDULE & INTERIOR ELEVATIONS
INT EXT

D



(E) 2x6
(1) LAYER 5/8" TYPE 'X' GWB
SHEATHING OVER BUILDING WRAP OVER 1/2" PLYWOOD OVER 1 1/2x11 7/8 1.5E LSL STUDS AT 16" O.C. W/ BATT INSUL
INT EXT

1 HOUR WALL
E 1 HOUR WALL

2 EXTERIOR WALL TYPES

SCALE: N.T.S.

JFC ARCHITECTS inc.
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PE ELL SCHOOL DISTRICT NO. 301
PE ELL, WASHINGTON

SEAL:

1977 REGISTERED ARCHITECT JOHN F. CROOK STATE OF WASHINGTON

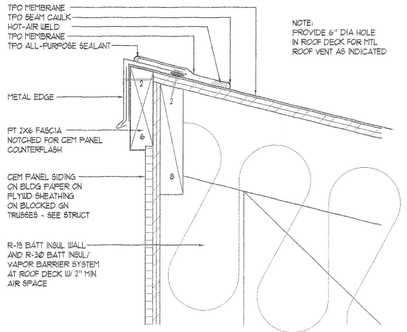
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SHEET NUMBER: A2.06

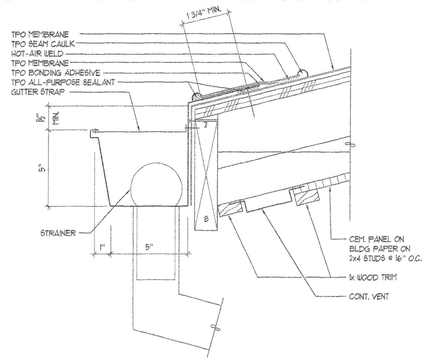
CONTENTS: WALL TYPES N.T.S.

DATE: 09/29/06

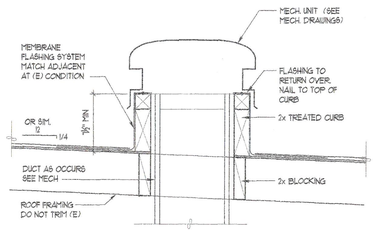
BID SET



1 RIDGE DETAIL
SCALE: 3"=1'-0"

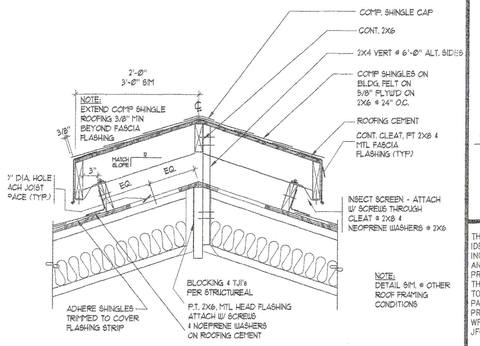


2 EAVE DETAIL
SCALE: 3"=1'-0"

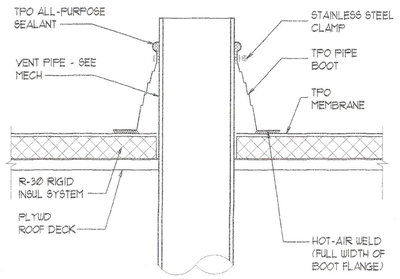


3 MECH EQUIP DETAIL
SCALE: 1 1/2"=1'-0"

4 NOT USED
SCALE: 1"=1'-0"



5 MONUMENTAL RIDGE VENT
SCALE: 1"=1'-0"



6 VTR DETAIL
SCALE: 3"=1'-0"

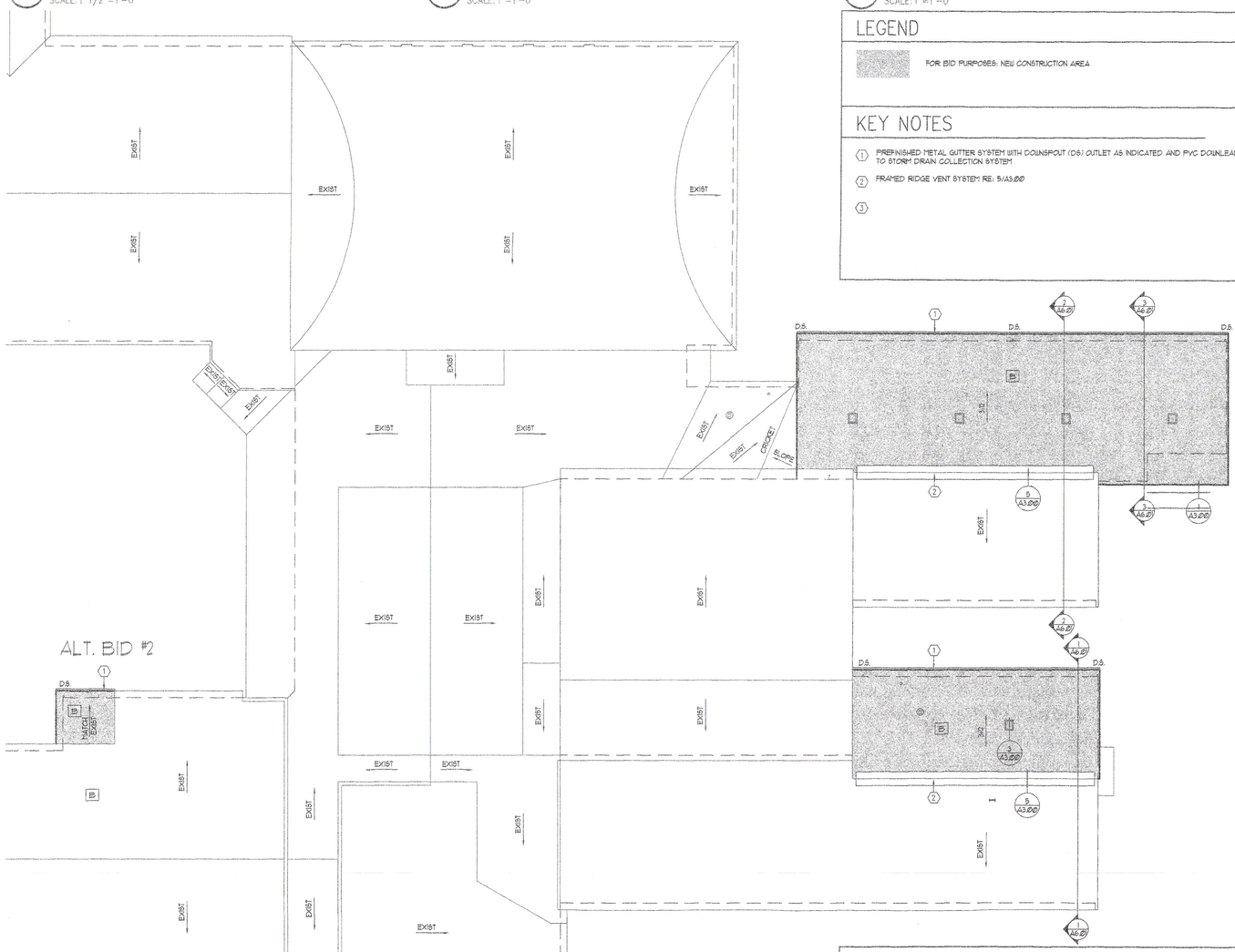
7 NOT USED
SCALE: 1/2"=1'-0"

LEGEND

FOR BID PURPOSES: NEW CONSTRUCTION AREA

KEY NOTES

1. PREFINISHED METAL GUTTER SYSTEM WITH DOWNSPOUT (DS) OUTLET AS INDICATED AND PVC DOWNLEADER TO STORM DRAIN COLLECTION SYSTEM
2. FRAMED RIDGE VENT SYSTEM. RE: 5/A3.ØØ
3.



ROOF PLAN
SCALE: 1/16" = 1'-Ø"

SYMBOL LEGEND

- MECHANICAL ROOFTOP EQUIPMENT OR HOOD - SEE MECHANICAL PLANS PROVIDE CURB AND FLASHING RE: X/A6.ØØ
- EXHAUST DUCT CAP SUPPLIED BY MECH - SEE MECHANICAL PLANS PROVIDE FLASHING AT ROOFING SYSTEM AS NECESSARY
- PLATFORM AND FLASHING FOR CONDENSING UNIT - SEE MECHANICAL PLANS PROVIDE CURB AND FLASHING RE: X/A6.ØØ
- MECHANICAL PLUMBING VENT - SEE MECHANICAL PLANS PROVIDE FLASHING AT SHINGLE ROOFING SYSTEM AS SPECIFIED. FLASHING AT TPO ROOFING RE: 15/A6.ØØ
- A — FIBERGLASS SHINGLE SYSTEM (ØT3ll)
  5 : 12 PITCH ROOF DECK
- B — THERMOPLASTIC SHEET (TPO) ROOFING (ØT54Ø) ON RIGID INSULATION ON LOW SLOPE ROOF DECK
- METAL ROOF VENT - 6" DIA THROAT

11 NOT USED
SCALE: 1 1/2"=1'-0"

12 NOT USED
SCALE: 1 1/2"=1'-0"

16 NOT USED
SCALE: 1 1/2"=1'-0"

17 NOT USED
SCALE: 1 1/2"=1'-0"

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WA: (360) 425-3030
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DESCRIPTION	REV	DATE

ADDITIONS AND MODERNIZATIONS TO PE ELL ELEMENTARY, MIDDLE AND HIGH SCHOOLS

PE ELL SCHOOL DISTRICT NO. 301
PE ELL, WASHINGTON

SEAL:
1877 REGISTERED ARCHITECT JOHN F. CROOK STATE OF WASHINGTON

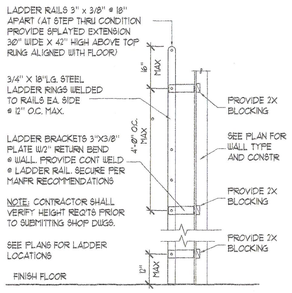
JOB NUMBER: 2006.004

SHEET NUMBER: A3.00

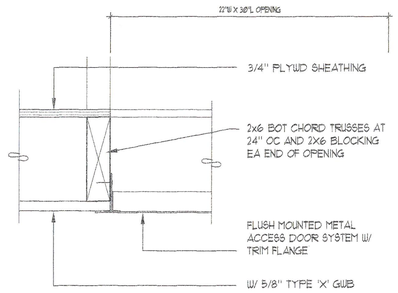
CONTENTS: ROOF PLAN

DATE: 09/29/06

BID SET



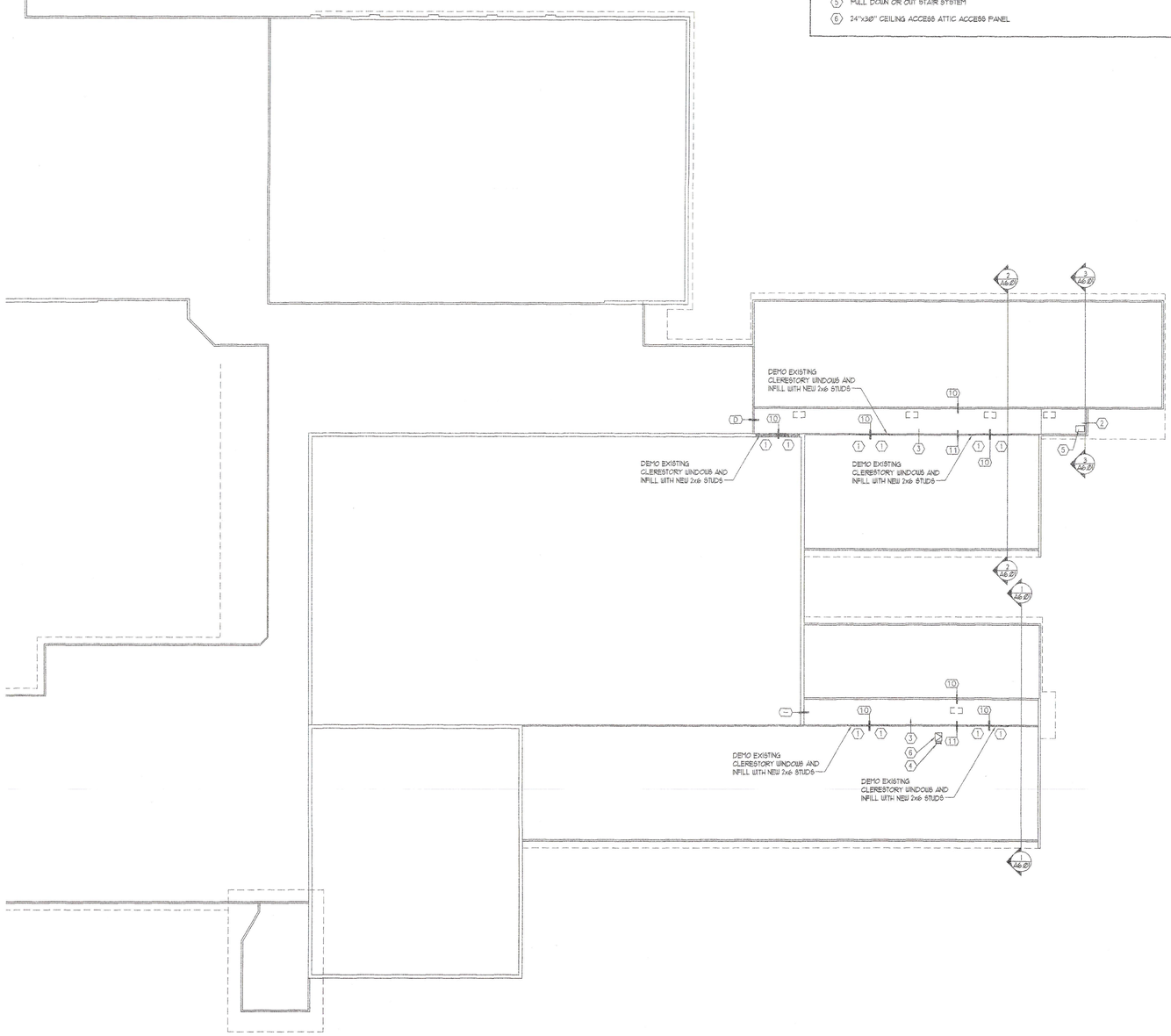
1 ACCESS LADDER DETAIL
SCALE: 1/2"=1'-0"



2 CEILING ATTIC ACCESS DOOR
SCALE: 3"=1'-0"

3 NOT USED
SCALE: 1 1/2"=1'-0"

4 NOT USED
SCALE: 1 1/2"=1'-0"



ATTIC PLAN
SCALE: 1/16" = 1'-0"

LEGEND

TWO HOUR FIRE RESISTIVE AREA SEPERATION WALL CONSTRUCTION

NON-RATED DRAFT STOP WALL CONSTRUCTION

NEW MECHANICAL PLATFORM STRUCTURE

EXISTING ROOF STRUCTURE (DEMO EXISTING ROOFING AND INSULATION)

GENERAL NOTES

1. THIS PLAN INDICATES NOMINAL PENETRATIONS REQUIRED IN EXISTING ROOF DECK AREAS. SEE MECHANICAL AND PLUMBING PLAN SHEETS FOR ADDITIONAL INFORMATION RELATING TO PENETRATION TYPES AND LOCATIONS.

2. SEE ELECTRICAL ATTIC PLAN FOR POWER AND LIGHTING REQUIREMENTS.

3. THIS PLAN INDICATES NOMINAL DIMENSIONS. REFER TO AND COORDINATE DIMENSIONS WITH FLOOR PLAN SHEETS A2.01, A2.02

KEY NOTES

1. FRAME/INFILL Ø OPENINGS AT DEMOED CLERESTORY WINDOWS
2. 3/4" PLYWOOD MECH PLATFORM - NEW CONSTRUCTION
3. EXISTING 2X6 T&G ROOF DECK TO BE MAINTAINED FOR FLOOR OF MECH PLATFORM (DEMO EXISTING ROOFING AND RIGID INSUL SYSTEM)
4. STEEL LADDER RE: I/A3.01 MODIFY AS NECESSARY
5. PULL DOWN OR OUT STAIR SYSTEM
6. 24"X36" CEILING ACCESS ATTIC ACCESS PANEL

JFC ARCHITECTS inc.
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ADDITIONS AND MODERNIZATIONS TO PE ELL ELEMENTARY, MIDDLE AND HIGH SCHOOLS

PE ELL SCHOOL DISTRICT NO. 301
PE ELL, WASHINGTON

SEAL:
1977 REGISTERED ARCHITECT JOHN F. CROOK STATE OF WASHINGTON

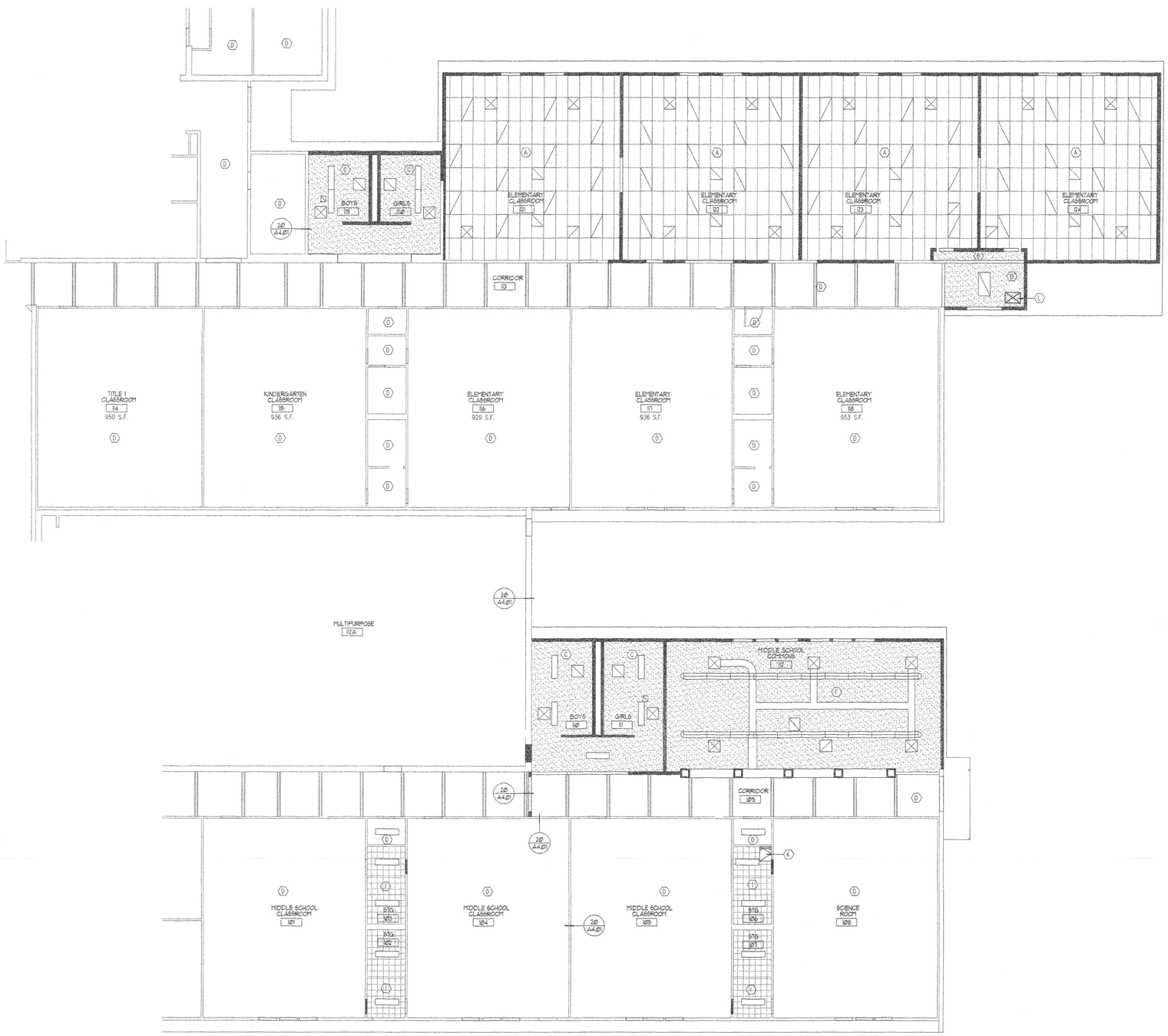
JOB NUMBER: 2006.004

SHEET NUMBER: A3.01

CONTENTS: ATTIC PLAN

DATE: 09/29/06

BID SET



1 REFLECTED CEILING PLAN
1/8" = 1'-0"

LEGEND

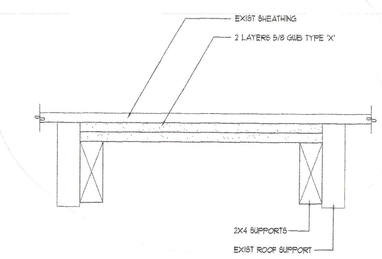
- GYPSUM WALLBOARD (GWB) CEILING
- 2' X 4' SUSPENDED T-BAR CEILING
- LIGHT FIXTURES - SEE ELECTRICAL
- CEILING DIFFUSERS - SEE MECHANICAL

SHEET NOTES

1. SACT GRIDS TO BE PLACED CENTERED IN ROOMS SUCH THAT EQUAL DISTANCE IS MAINTAINED AT OPPOSITE WALLS, UNO.

KEY NOTES

- (A) 2x4 SACT @ 9'-0" AFF
- (B) GWB @ 8'-6" AFF
- (C) GWB @ 9'-0" AFF
- (D) (E) TO REMAIN
- (E) GWB @ 7'-6" AFF
- (F) SLOPED GWB
- (G) GLU-UP ACT @ 8'-0" AFF
- (H) 2x4 SACT @ 8'-2" AFF, TO MATCH (E) ADJACENT
- (I) (E) GLU-UP, PATCH AREAS NEEDED TO MATCH EXISTING
- (J) 2x4 SACT @ 12'-0" AFF
- (K) 1 HOUR FIRE RATED ACCESS PANEL W/ PULL DOWN FOLDING STAIRWAY
- (L) ATTIC ACCESS PANEL



20 2 HOUR CEILING CONDITION
SCALE: 3"=1'-0"

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ADDITIONS AND MODERNIZATIONS TO PE ELL ELEMENTARY, MIDDLE AND HIGH SCHOOLS

PE ELL SCHOOL DISTRICT NO. 301
PE ELL, WASHINGTON

SEAL:
1977 REGISTERED ARCHITECT JOHN F. CROOK STATE OF WASHINGTON

JOB NUMBER: 2006.004

SHEET NUMBER: A4.01

CONTENTS: REFLECTED CEILING

DATE: 09/29/06

BID SET



1 REFLECTED CEILING PLAN
1/8" = 1'-0"

LEGEND

- GYPSUM WALLBOARD (GWB) CEILING
- 2' X 4' SUSPENDED T-BAR CEILING
- LIGHT FIXTURES - SEE ELECTRICAL
- CEILING DIFFUSERS - SEE MECHANICAL

SHEET NOTES

1. SACT GRIDS TO BE PLACED CENTERED IN ROOMS SUCH THAT EQUAL DISTANCE IS MAINTAINED AT OPPOSITE WALLS, UNO.

KEY NOTES

- (A) 2x4 SACT @ 9'-0" AFF
- (B) GWB @ 8'-6" AFF
- (C) GWB @ 9'-0" AFF
- (D) (E) TO REMAIN
- (E) GWB @ 7'-6" AFF
- (F) SLOPED GWB
- (G) GLU-UP ACT @ 8'-0" AFF
- (H) 2x4 SACT @ 8'-2" AFF, TO MATCH (E) ADJACENT
- (I) (E) GLU-UP, PATCH AREAS NEEDED TO MATCH EXISTING
- (J) 2x4 SACT @ 10'-0" AFF
- (K) 1 HOUR FIRE RATED ACCESS PANEL W/ FULL DOWN FOLDING STAIRWAY
- (L) ATTIC ACCESS PANEL

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PE ELL SCHOOL DISTRICT NO. 301
PE ELL, WASHINGTON

SEAL:
1977 REGISTERED ARCHITECT JOHN F. CROOK STATE OF WASHINGTON

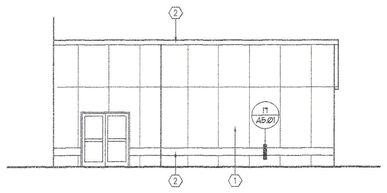
JOB NUMBER: 2006.004

SHEET NUMBER: A4.02

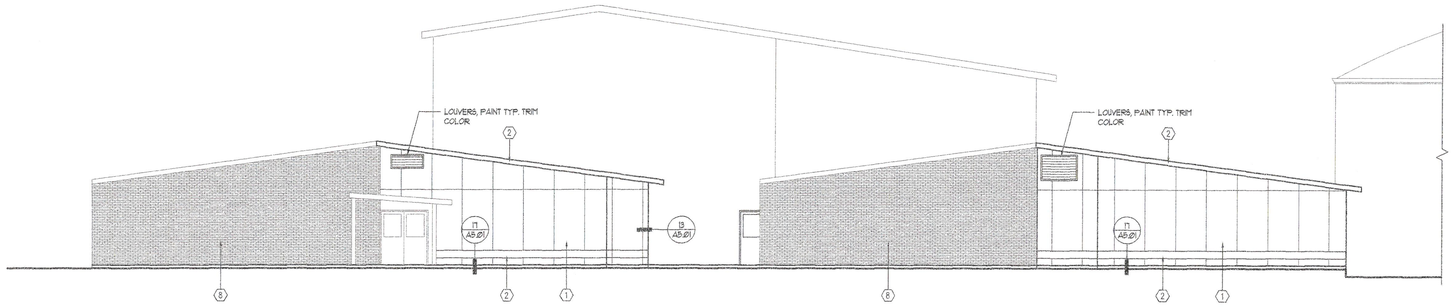
CONTENTS: REFLECTED CEILING PLAN

DATE: 09/29/06

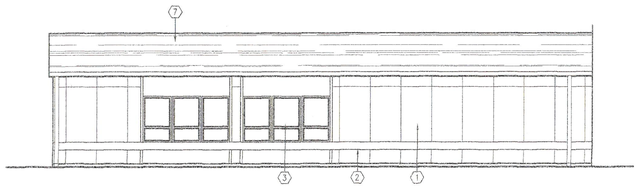
BID SET



1 EAST ELEVATION
1/8" = 1'-0"



2 NORTH ELEVATION
1/8" = 1'-0"



3 COURTYARD WEST ELEVATION
1/8" = 1'-0"



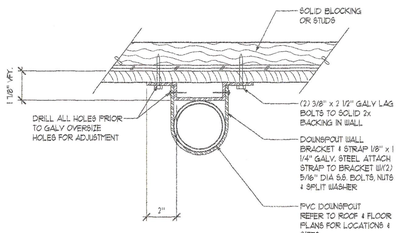
4 WEST ELEVATION
1/8" = 1'-0"

ELEVATION SHEET NOTES

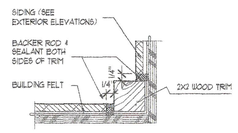
1. REFER TO ROOF PLAN SHEET A3.00 FOR ROOF TOP MECH EQUIPMENT NOT INDICATED ON EXTERIOR ELEVATIONS.
2. REFER TO FLOOR / ROOF PLANS AND WALL SECTIONS FOR DOWNSPOUT LOCATIONS NOT INDICATED ON EXTERIOR ELEVATIONS.
3. REFER TO ELECTRICAL PLANS FOR EXTERIOR WALL MOUNTED LIGHTING FIXTURES AS INDICATED.

ELEVATION KEY NOTES

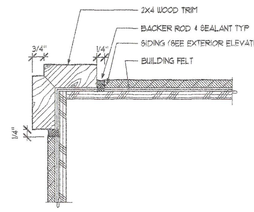
1. (N) SIDING
2. (N) PREFINISHED METAL TRIM
3. (N) VINYL WINDOWS
4. CONTINUOUS RIDGE VENT
5. SHEET METAL GUTTER AND DOWNSPOUTS, TYP
6. EQUIPMENT, SEE MECHANICAL
7. TPO MEMBRANE
8. (E) BRICK
9. RELOCATED WINDOW



11 DS BRACKET AT SIDING
SCALE: 3"=1'-0"

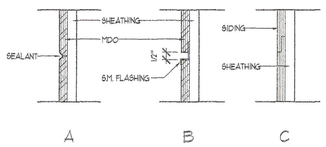


12 TRIM DETAIL
SCALE: 3"=1'-0"

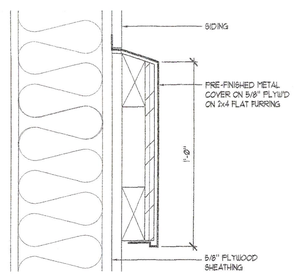


13 TRIM DETAIL
SCALE: 3"=1'-0"

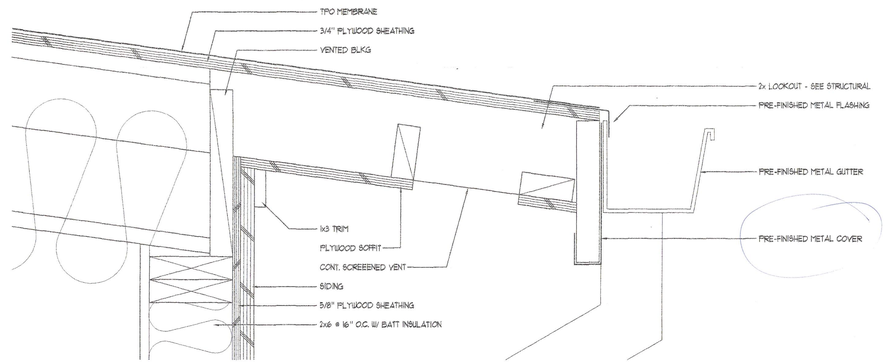
14 NOT USED
SCALE: 3"=1'-0"



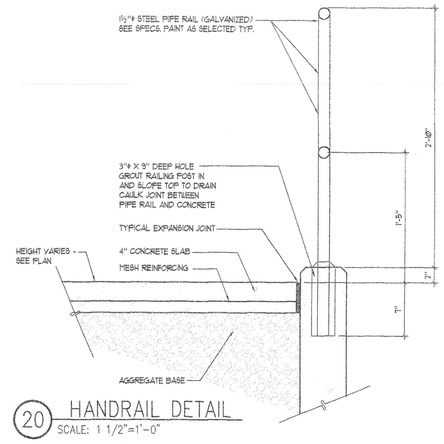
16 JOINT DETAILS
SCALE: 3"=1'-0"



17 FLASHING DETAIL
SCALE: 3"=1'-0"



18 EAVE DETAIL
SCALE: 3"=1'-0"



20 HANDRAIL DETAIL
SCALE: 1 1/2"=1'-0"

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DESCRIPTION	REV	DATE

ADDITIONS AND MODERNIZATIONS TO PE ELL ELEMENTARY, MIDDLE AND HIGH SCHOOLS

PE ELL SCHOOL DISTRICT NO. 301
PE ELL, WASHINGTON

SEAL:
REGISTERED ARCHITECT
JOHN F. CROOK
STATE OF WASHINGTON

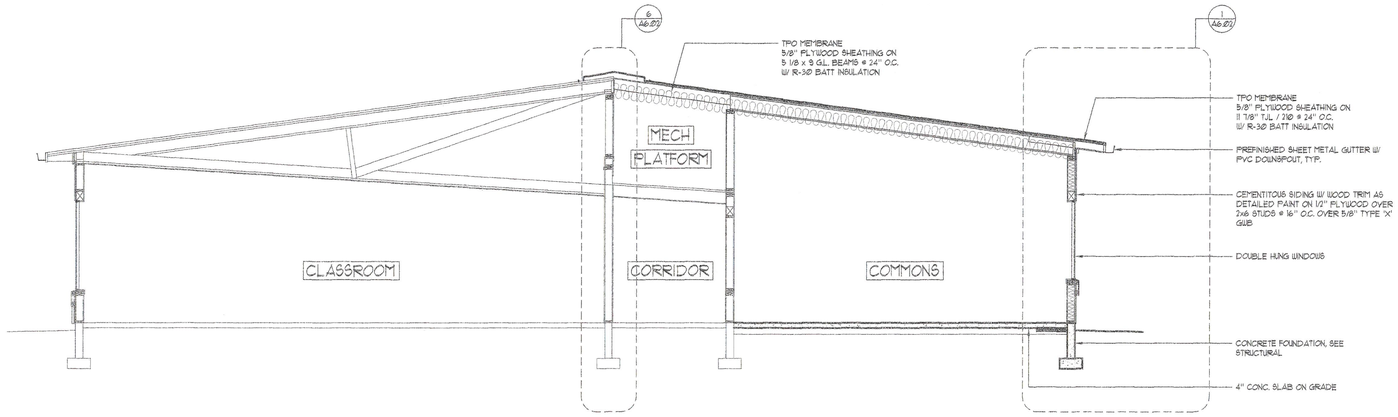
JOB NUMBER: 2006.004

SHEET NUMBER: A5.01

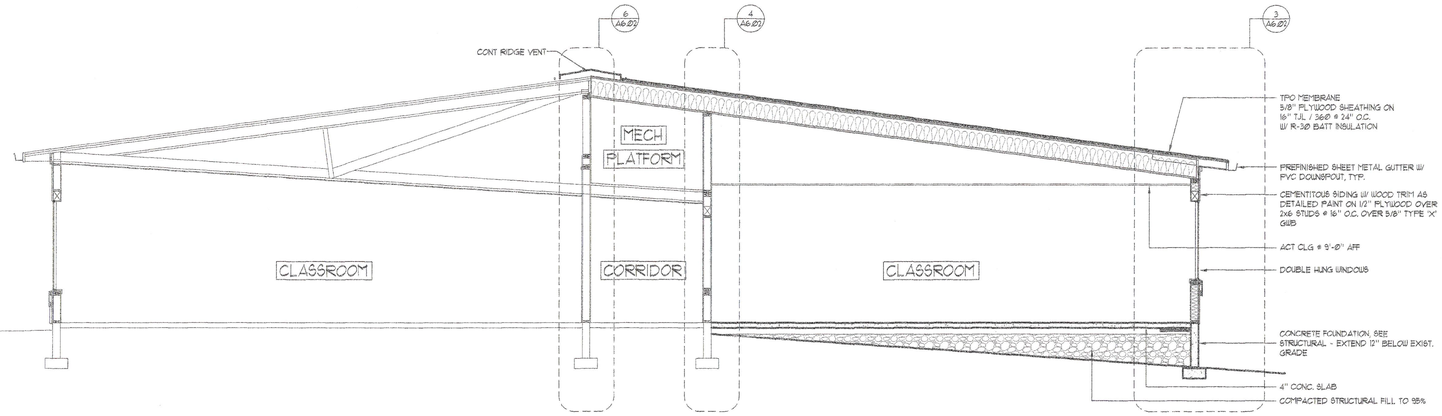
CONTENTS: EXTERIOR ELEVATIONS

DATE: 09/29/06

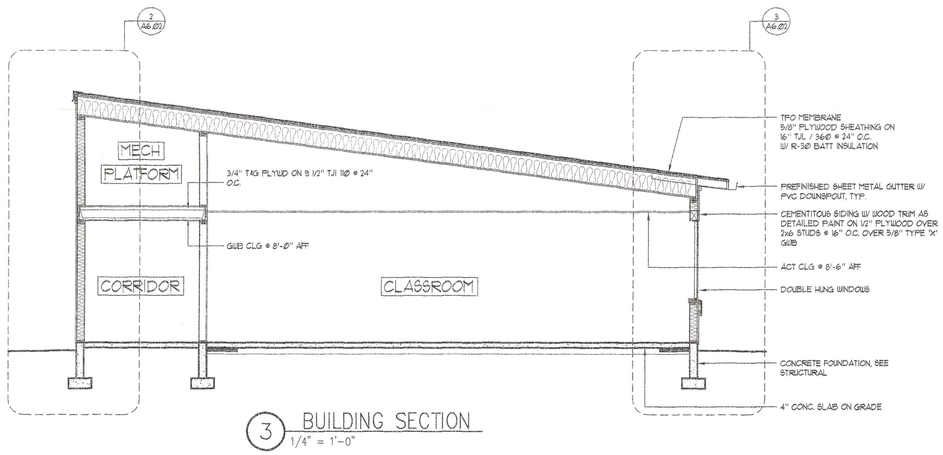
BID SET



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



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



3 BUILDING SECTION
1/4" = 1'-0"

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PE ELL SCHOOL DISTRICT NO. 301
PE ELL, WASHINGTON

SEAL:

1877 REGISTERED ARCHITECT JOHN F. CROOK STATE OF WASHINGTON

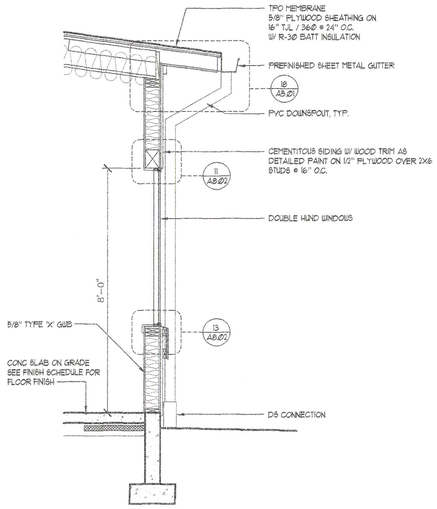
JOB NUMBER: 2006.004

SHEET NUMBER: A6.01

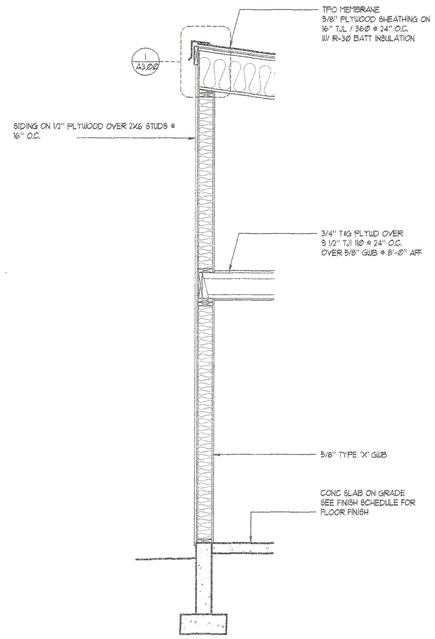
CONTENTS: BUILDING SECTIONS

DATE: 09/29/06

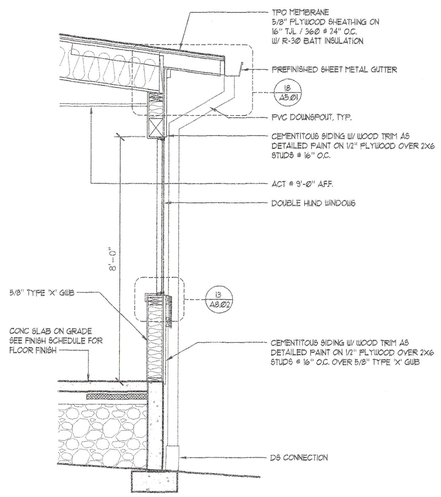
BID SET



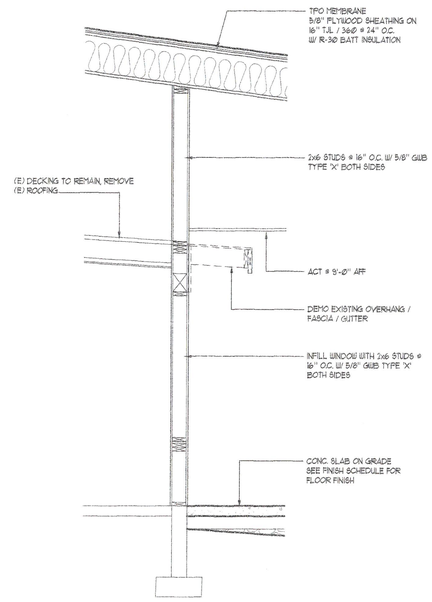
1 WALL SECTION – COMMONS
1/2" = 1'-0"



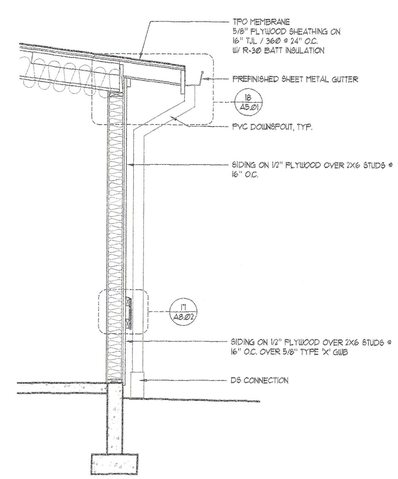
2 WALL SECTION
1/2" = 1'-0"



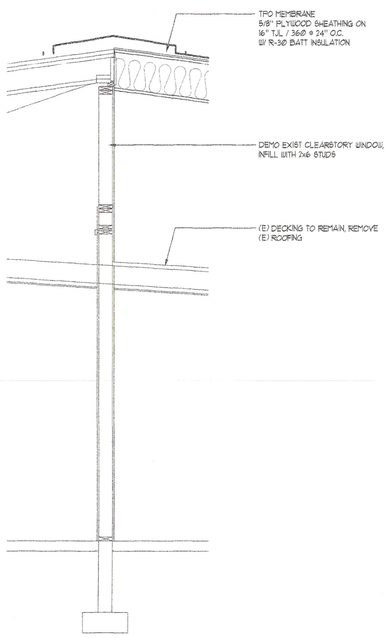
3 WALL SECTION – ELEMENTARY
1/2" = 1'-0"



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



5 WALL SECTION
1/2" = 1'-0"



6 WALL SECTION
1/2" = 1'-0"

7 WALL SECTION
1/2" = 1'-0"

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

9 WALL SECTION
1/2" = 1'-0"

10 WALL SECTION
1/2" = 1'-0"

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PE ELL ELEMENTARY, MIDDLE AND HIGH SCHOOLS
PE ELL SCHOOL DISTRICT NO. 301
PE ELL, WASHINGTON

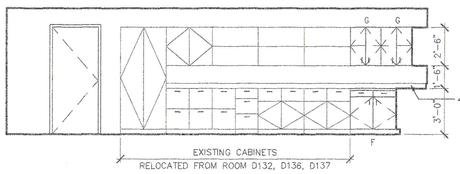
SEAL:
1877 REGISTERED ARCHITECT JOHN F. GROOM STATE OF WASHINGTON

JOB NUMBER: 2006.004

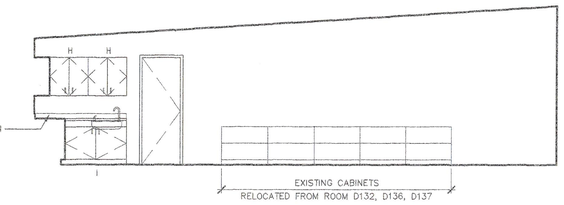
SHEET NUMBER: A6.02

CONTENTS: WALL SECTIONS

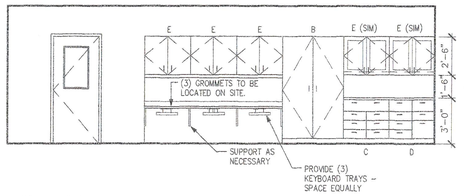
DATE: 09/29/06
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BID SET



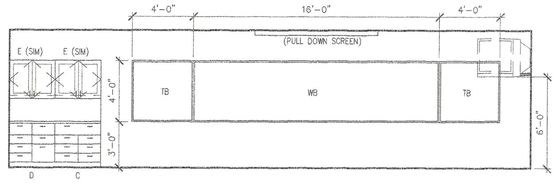
1 CLASSROOM 101, 104 AND 105 SIM
1/4" = 1'-0"



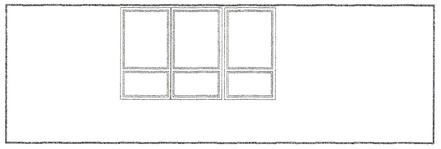
2 CLASSROOM 101, 104, AND 105 SIM
1/4" = 1'-0"



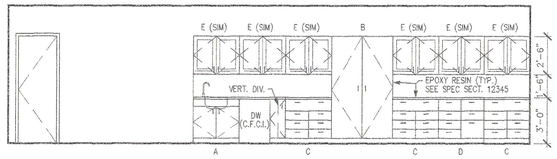
3 SCIENCE 108
1/4" = 1'-0"



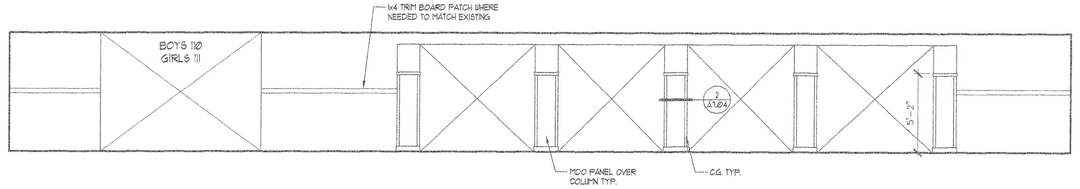
4 SCIENCE 108
1/4" = 1'-0"



5 SCIENCE 108
1/4" = 1'-0"

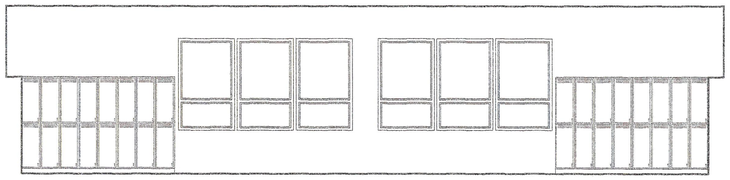


6 SCIENCE 108
1/4" = 1'-0"

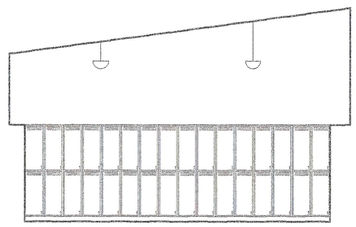


7 CORRIDOR 109
1/4" = 1'-0"

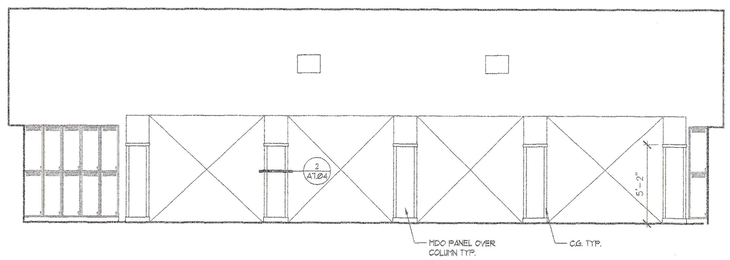
8 CORRIDOR 109
1/4" = 1'-0"



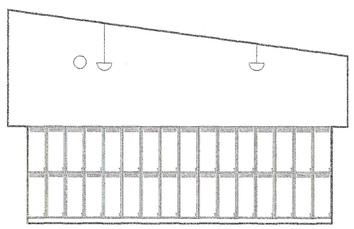
9 MULTIPURPOSE 112
1/4" = 1'-0"



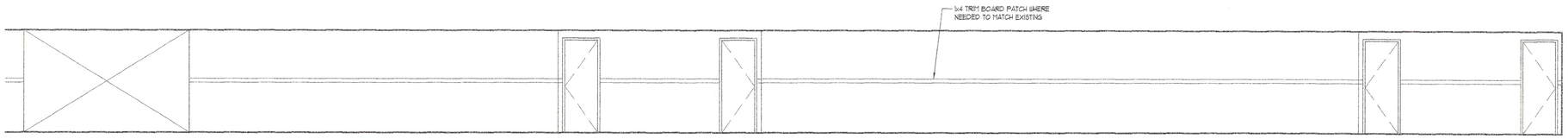
10 MULTIPURPOSE 112
1/4" = 1'-0"



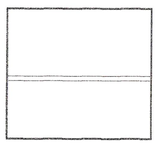
11 MULTIPURPOSE 112
1/4" = 1'-0"



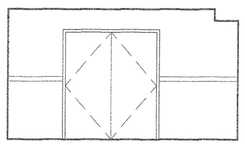
12 MULTIPURPOSE 112
1/4" = 1'-0"



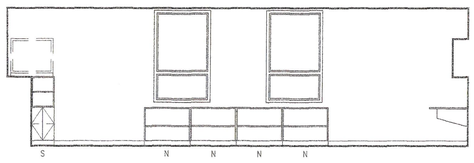
13 CORRIDOR 113
1/4" = 1'-0"



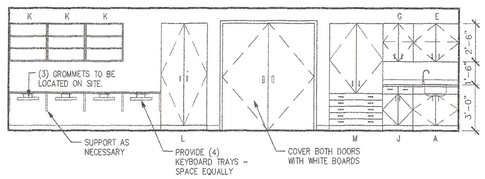
14 CORRIDOR 113
1/4" = 1'-0"



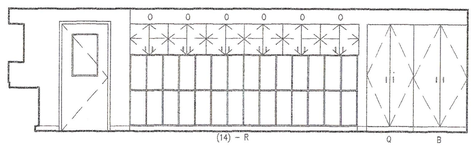
15 CORRIDOR 113
1/4" = 1'-0"



16 CLASSROOM 121 & 123
1/4" = 1'-0"



17 CLASSROOM 121 & 123
1/4" = 1'-0"



18 CLASSROOM 121 & 123
1/4" = 1'-0"

JFC ARCHITECTS inc.
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DESCRIPTION	REV	DATE

ADDITIONS AND MODERNIZATIONS TO PE ELL ELEMENTARY, MIDDLE AND HIGH SCHOOLS

PE ELL SCHOOL DISTRICT NO. 301
PE ELL, WASHINGTON

SEAL:
1877 REGISTERED ARCHITECT JOHN R. CROOK STATE OF WASHINGTON

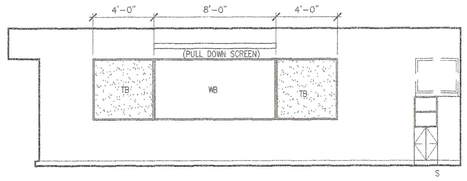
JOB NUMBER: 2006.004

SHEET NUMBER: A7.01

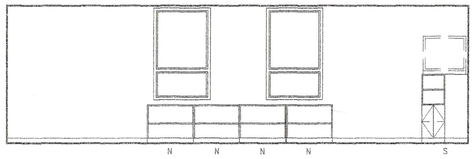
CONTENTS: INTERIOR ELEVATIONS

DATE: 09/29/06

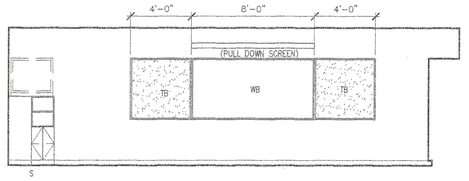
BID SET



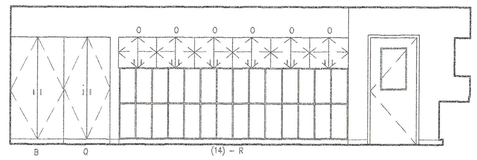
1 CLASSROOM 121 & 123
1/4" = 1'-0"



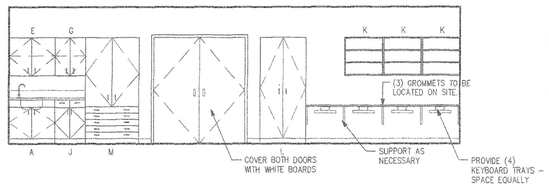
2 CLASSROOM 122 & 124
1/4" = 1'-0"



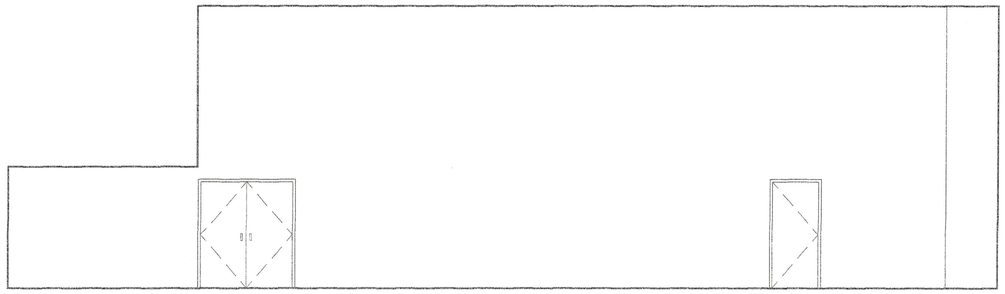
3 CLASSROOM 122 & 124
1/4" = 1'-0"



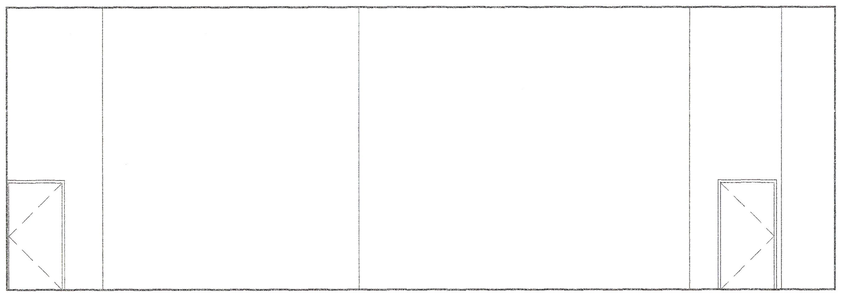
4 CLASSROOM 122 & 124
1/4" = 1'-0"



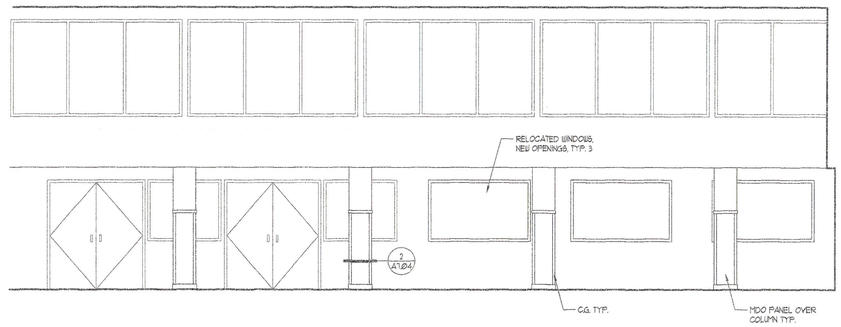
5 CLASSROOM 122 & 124
1/4" = 1'-0"



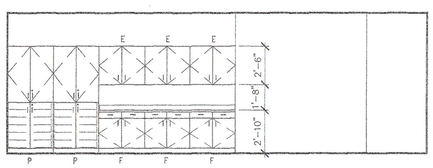
6 CAFETERIA 128
1/4" = 1'-0"



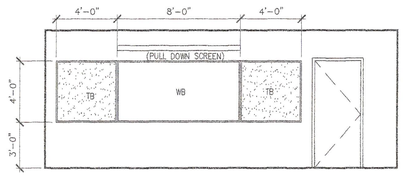
7 CAFETERIA 128
1/4" = 1'-0"



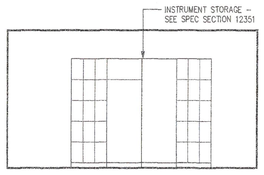
8 CAFETERIA 128
1/4" = 1'-0"



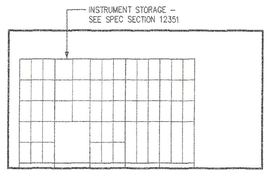
9 TECHNOLOGY 132
1/4" = 1'-0"



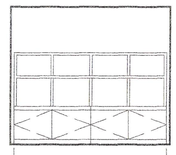
10 TECHNOLOGY 133
1/4" = 1'-0"



11 INSTRUMENT STORAGE 134
1/4" = 1'-0"



12 INSTRUMENT STORAGE 134
1/4" = 1'-0"



13 INSTRUMENT STORAGE 134
1/4" = 1'-0"

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ADDITIONS AND MODERNIZATIONS TO PE ELL ELEMENTARY, MIDDLE AND HIGH SCHOOLS

PE ELL SCHOOL DISTRICT NO. 301
PE ELL, WASHINGTON

SEAL:
1077 REGISTERED ARCHITECT
JOHN F. CROOK
STATE OF WASHINGTON

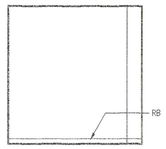
JOB NUMBER: 2006.004

SHEET NUMBER: A7.02

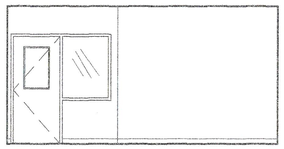
CONTENTS: INTERIOR ELEVATIONS

DATE: 09/29/06

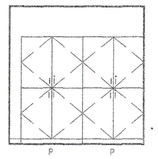
BID SET



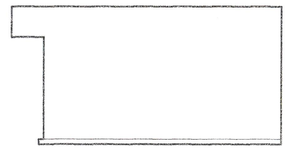
1 PRACTICE 135
1/4" = 1'-0"



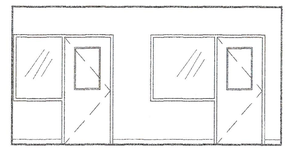
2 PRACTICE 135
1/4" = 1'-0"



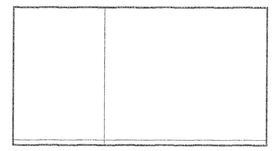
3 PRACTICE 135
1/4" = 1'-0"



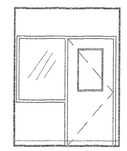
4 PRACTICE 135
1/4" = 1'-0"



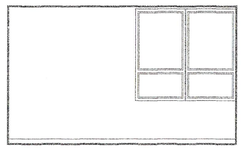
5 HALL 136
1/4" = 1'-0"



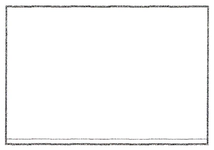
6 HALL 136
1/4" = 1'-0"



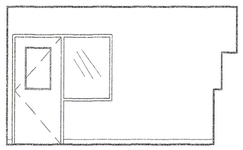
7 HALL 136
1/4" = 1'-0"



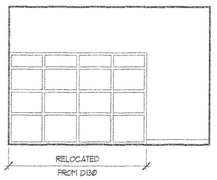
8 PRACTICE 137
1/4" = 1'-0"



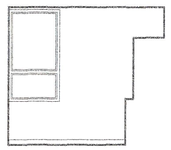
9 PRACTICE 137
1/4" = 1'-0"



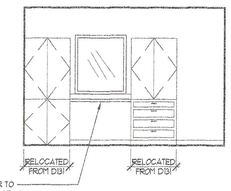
10 PRACTICE 137
1/4" = 1'-0"



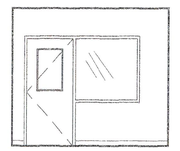
11 PRACTICE 137
1/4" = 1'-0"



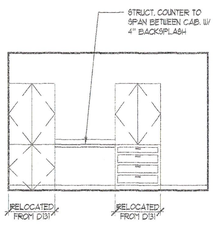
12 OFFICE 138
1/4" = 1'-0"



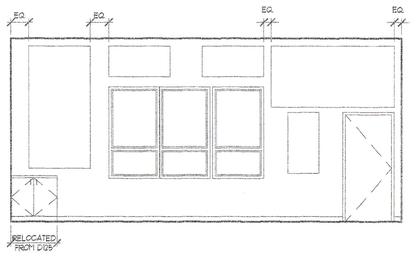
13 OFFICE 138
1/4" = 1'-0"



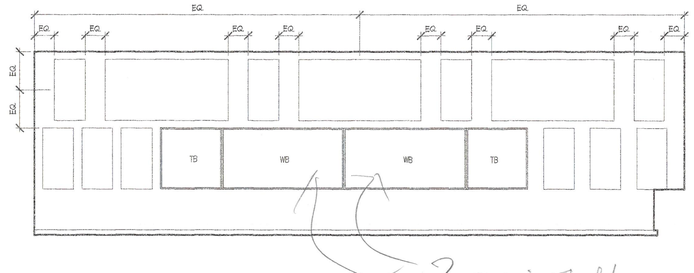
14 OFFICE 138
1/4" = 1'-0"



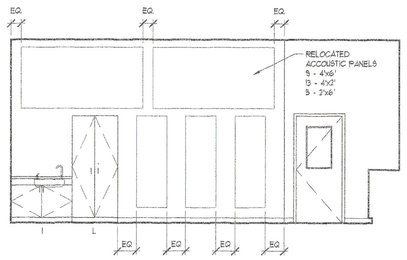
15 OFFICE 138
1/4" = 1'-0"



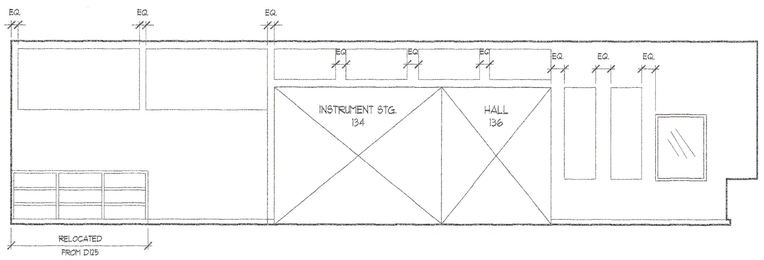
16 MUSIC 139
1/4" = 1'-0"



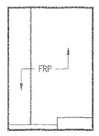
17 MUSIC 139
1/4" = 1'-0"



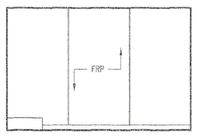
18 MUSIC 139
1/4" = 1'-0"



19 MUSIC 139
1/4" = 1'-0"



20 JAN 140
1/4" = 1'-0"



21 JAN 140
1/4" = 1'-0"

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PE ELL SCHOOL DISTRICT NO. 301
PE ELL, WASHINGTON

SEAL:
1877 REGISTERED ARCHITECT JOHN F. CROOK STATE OF WASHINGTON

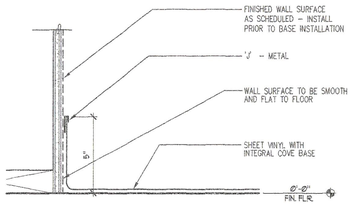
JOB NUMBER: 2006.004

SHEET NUMBER: A7.03

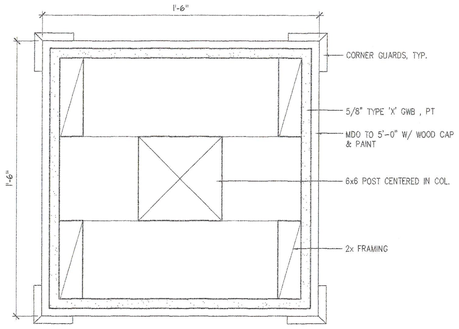
CONTENTS: INTERIOR ELEVATIONS

DATE: 09/29/06

BID SET



1 INTEGRAL COVE BASE
SCALE: 3"=1'-0"

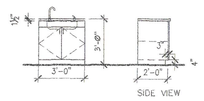


2 COLUMN DETAIL
SCALE: 3"=1'-0"

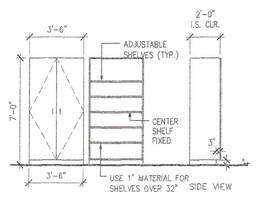
3 NOT USED
SCALE: 3/4" = 1'-0"

4 NOT USED
SCALE: N.T.S.

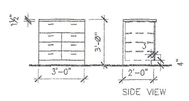
5 NOT USED
SCALE: N.T.S.



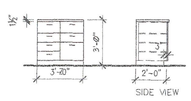
6 CABINET "A"
SCALE: 1/4"=1'-0"



7 CABINET "B"
SCALE: 1/4"=1'-0"

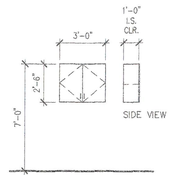


8 CABINET "C"
SCALE: 1/4"=1'-0"

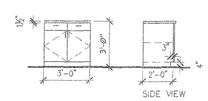


9 CABINET "D"
SCALE: 1/4"=1'-0"

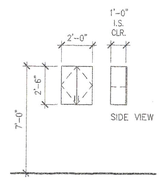
10 CABINET "E"
SCALE: 1/4" = 1'-0"

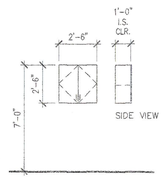


11 CABINET "F"
SCALE: 1/4"=1'-0"

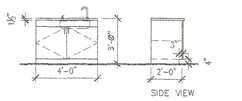


12 CABINET "G'
SCALE: 1/4"=1'-0"

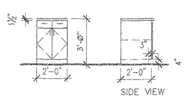




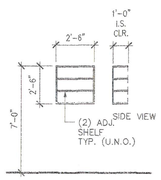
13 CABINET "H"
SCALE: 1/4"=1'-0"



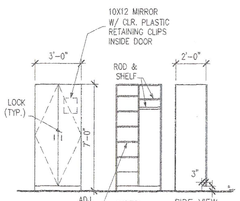
14 CABINET "I"
SCALE: 1/4"=1'-0"



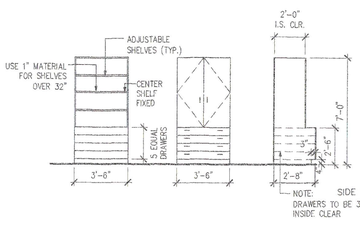
15 CABINET "J"
SCALE: 1/4" = 1'-0"



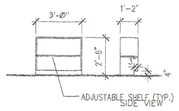
16 CABINET "K"
SCALE: 1/4"=1'-0"



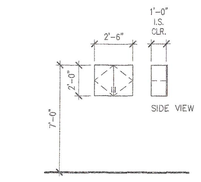
17 CABINET "L'
SCALE: 1/4"=1'-0"



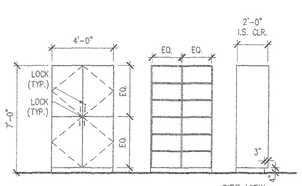
18 CABINET "M"
SCALE: 1/4"=1'-0"



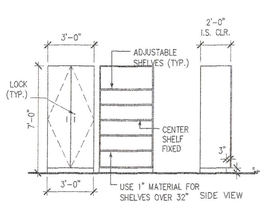
19 CABINET "N"
SCALE: 1/4"=1'-0"



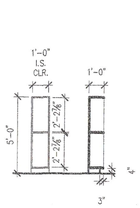
20 CABINET "O"
SCALE: 1/4" = 1'-0"



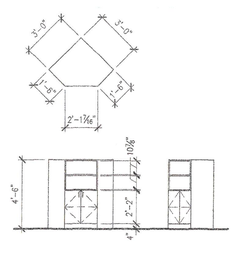
21 CABINET "P"
SCALE: 1/4" = 1'-0"



22 CABINET "Q"
SCALE: 1/4" = 1'-0"



23 CABINET "R"
SCALE: 1/4" = 1'-0"



24 CABINET "S"
SCALE: 1/4" = 1'-0"

GENERAL ELEVATION NOTES:

ALL BASE CABINET AND TALL CABINET SHELVES TO BE 24" D INSIDE CLEAR U.N.O.

ALL UPPER CABINET SHELVES TO BE 12" D INSIDE CLEAR U.N.O.

ALL TALL CABINETS IN CLASSROOMS TO HAVE LOCKS .

WHITE BOARD/TACKBOARDS TO BE MOUNTED @ 36" A.F.F.

ALL COUNTERTOP CORNERS TO BE ROUNDED W/ 1" RADIUS.

FILL ALL GAPS AT CABINET TOPS WHERE CABINETS ARE NOT TIGHT TO THE WALL.

NOT ALL CABINETS ARE DESIGNATED WITH A LETTER. FOR CABINETS WITHOUT A DESIGNATED LETTER, SEE ELEVATIONS FOR DIMENSIONS.

VERIFY DEPTH OF FILE DRAWERS SUFFICIENT FOR HANGERS AND FILES.

PROVIDE 1" THICK SHELVES FOR SHELVES OVER 32" WIDE.

ALL BACKSPLASHES TO BE 4" HIGH U.N.O.

JFC ARCHITECTS inc.
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DESCRIPTION	REV.	DATE

ADDITIONS AND MODERNIZATIONS TO
PE ELL ELEMENTARY, MIDDLE AND HIGH SCHOOLS
PE ELL SCHOOL DISTRICT NO. 301
PE ELL, WASHINGTON

SEAL:
1877 REGISTERED ARCHITECT JOHN F. CROOK STATE OF WASHINGTON

JOB NUMBER: 2006.004

SHEET NUMBER: **A7.04**

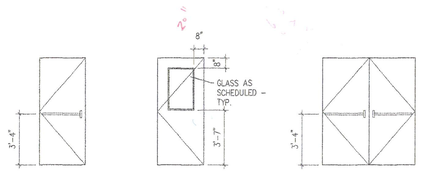
CONTENTS: INTERIOR DETAILS

DATE: 09/29/06

BID SET

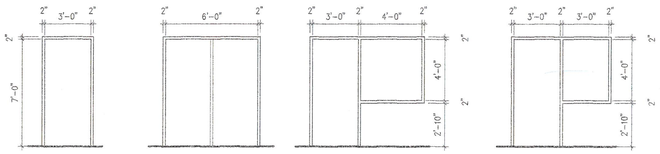
DOOR TYPES

NOT USED



TYPE A | TYPE B | TYPE C | TYPE D

FRAME TYPES

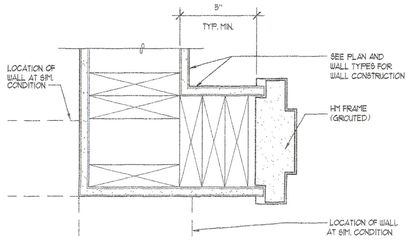


TYPE A | TYPE B | TYPE C | TYPE D

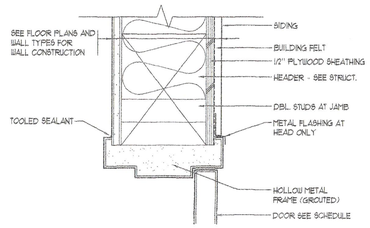
NOTE: WINDOW BLINDS TO BE PROVIDED FOR ALL RELITES, STOREFRONT SYSTEMS AND ON DOORS NOTED ON DOOR SCHEDULE. SEE SPEC SECTION 12490 AND ALSO WINDOW DETAILS.

1 DOOR TYPES AND FRAME TYPES
SCALE: 1/4"=1'-0"

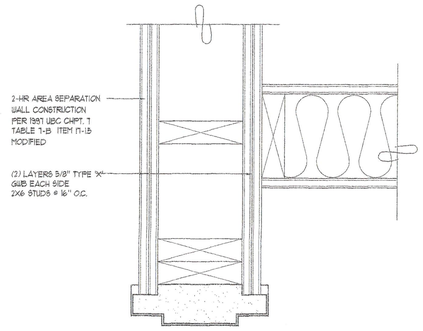
6 INTERIOR DOOR JAMB
SCALE: 3"=1'-0"



7 EXT DOOR JAMB AT SIDING
SCALE: 3"=1'-0"

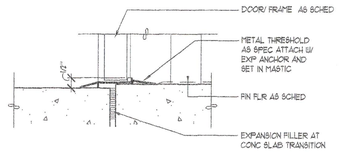


8 DOOR JAMB AT 2 HR WALL
SCALE: 3"=1'-0"

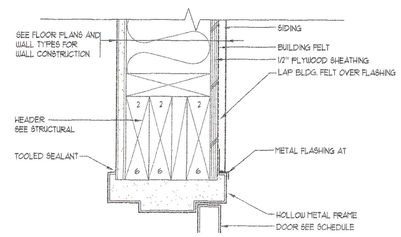


NOTE: SEE WALL TYPES/STRUCTURAL FOR SHEAR WALL INFO.

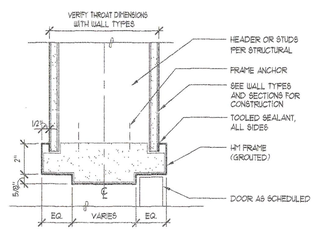
9 TYP EXT THRESHOLD
SCALE: 3"=1'-0"



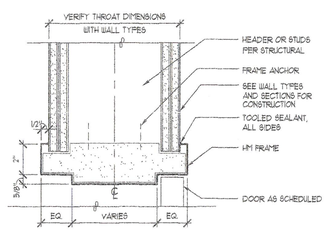
10 EXT DOOR HEAD AT SIDING
SCALE: 3"=1'-0"



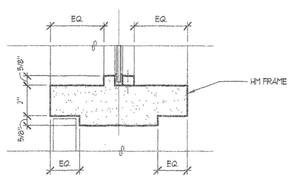
11 TYP INT DOOR HEAD-JAMB SIM
SCALE: 3"=1'-0"



12 INT. HEAD (JAMB SIM) 2-HOUR WALL (TYPES 12 & 13 SERIES)
SCALE: 3"=1'-0"



13 DOOR/RELITE JAMB
SCALE: 3"=1'-0"



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DESCRIPTION	REV	DATE

ADDITIONS AND MODERNIZATIONS TO
PE ELL ELEMENTARY, MIDDLE AND HIGH SCHOOLS
PE ELL SCHOOL DISTRICT NO. 301
PE ELL, WASHINGTON

SEAL:

1977 REGISTERED ARCHITECT JOHN F. CROOK STATE OF WASHINGTON

JOB NUMBER: 2006.004

SHEET NUMBER: **A8.01**

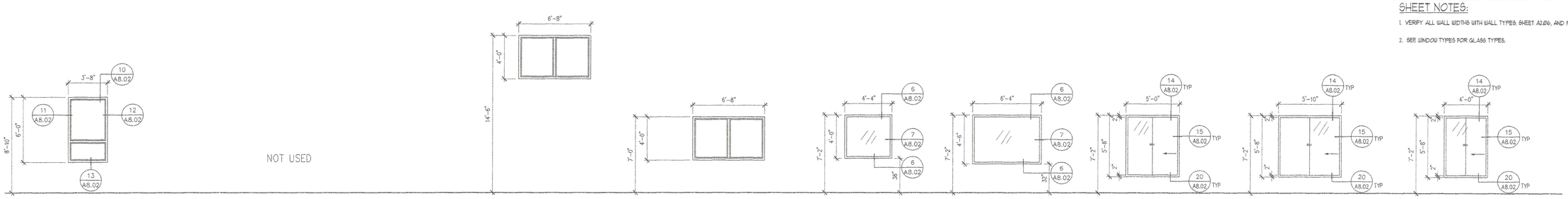
CONTENTS:
DOOR DETAILS
WINDOW DETAILS

DATE: 09/29/06

BID SET

SHEET NOTES:

1. VERIFY ALL WALL WIDTHS WITH WALL TYPES, SHEET A2.06, AND PLANS.
2. SEE WINDOW TYPES FOR GLASS TYPES.



A — MAT.: VINYL
GLASS TYPE: "I-T"
OPERABLE: YES
VERIFY JAMB DETAIL W/ WALL TYPES AND EXTERIOR ELEVATIONS

B

C — MAT.: EXIST
GLASS TYPE: EXIST
OPERABLE: NO
EXISTING WINDOW RELOCATED

D — MAT.: EXIST
GLASS TYPE: EXIST
OPERABLE: NO
EXISTING WINDOW RELOCATED

E — MAT.: HM
GLASS TYPE: "I"
OPERABLE: NO

F — MAT.: HM
GLASS TYPE: "I"
OPERABLE: NO

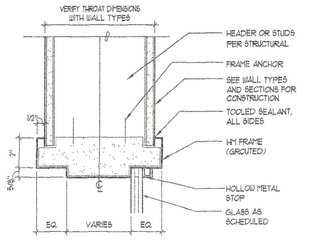
G — MAT.: HM
GLASS TYPE: "I"
OPERABLE: YES, WITH KEYLOCK
SLIDING GLASS DISPLAY CASE, TYP

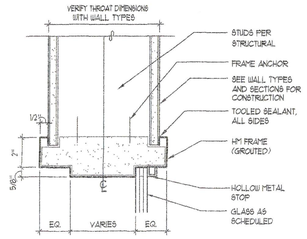
H — MAT.: HM
GLASS TYPE: "I"
OPERABLE: YES, WITH KEYLOCK
SLIDING GLASS DISPLAY CASE, TYP

I — MAT.: HM
GLASS TYPE: "I"
OPERABLE: YES, WITH KEYLOCK
SLIDING GLASS DISPLAY CASE, TYP

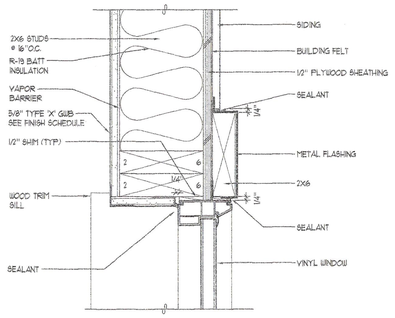
1 EXTERIOR WINDOW TYPES
SCALE: 1/4"=1'-0"

4 INTERIOR WINDOW TYPES
SCALE: 1/4"=1'-0"

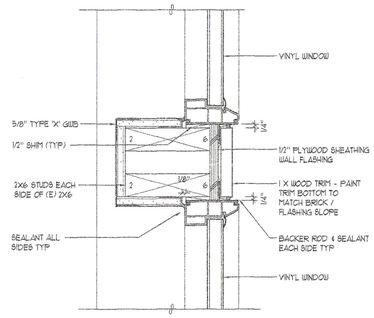




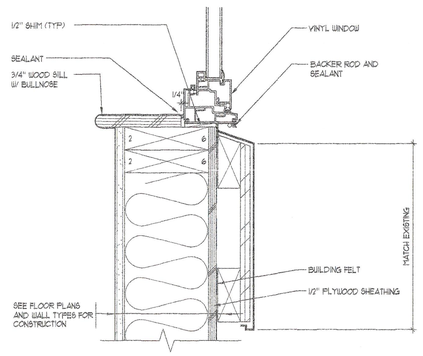
6 INT. H.M. RELITE HEAD / JAMB
SCALE: 3"=1'-0"



7 INT. H.M. RELITE JAMB
SCALE: 3"=1'-0"

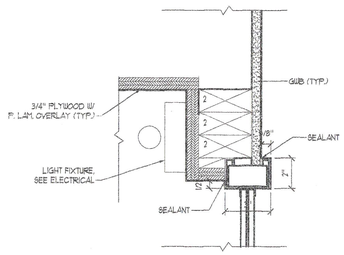


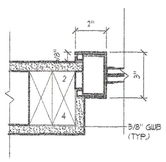
8 NOT USED
SCALE: 3"=1'-0"



9 NOT USED
SCALE: 3"=1'-0"

10 NOT USED
SCALE: 3" = 1'-0"





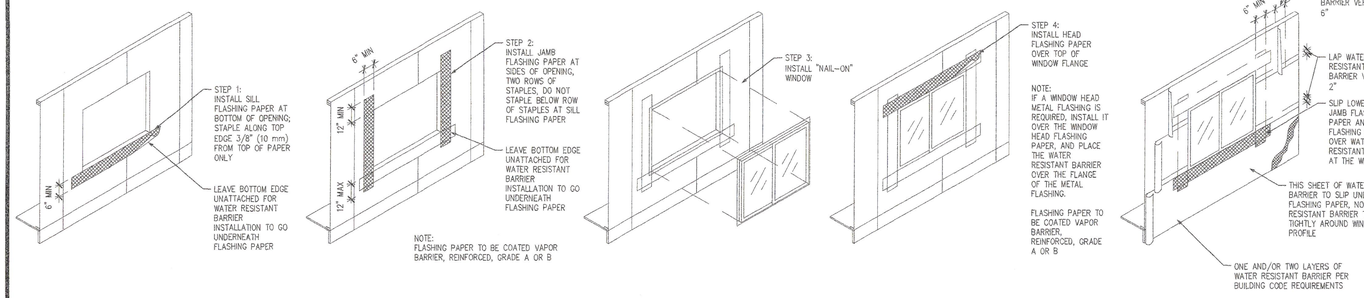
11 VINYL WINDOW JAMB
SCALE: 3"=1'-0"

12 WINDOW MULLION
SCALE: 3"=1'-0"

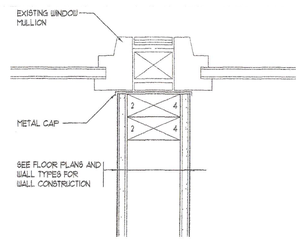
13 VINYL WINDOW SILL
SCALE: 3"=1'-0"

14 DISPLAY CASE HEAD
SCALE: 3"=1'-0"

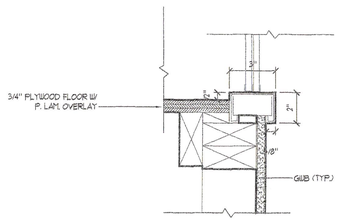
15 DISPLAY CASE JAMB
SCALE: 3"=1'-0"



16 TYP. PAPER FLASHING OF NAIL FIN WINDOW SEQUENCE
SCALE: 1/4" = 1'-0"



19 WALL MEETING MULLION
SCALE: 3"=1'-0"



20 DISPLAY CASE SILL
SCALE: 3"=1'-0"

JFC ARCHITECTS inc.
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LONGVIEW, WA 98632
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DESCRIPTION	REV	DATE

ADDITIONS AND MODERNIZATIONS TO
PE ELL ELEMENTARY, MIDDLE AND HIGH SCHOOLS
PE ELL SCHOOL DISTRICT NO. 301
PE ELL, WASHINGTON

SEAL:
1877 REGISTERED ARCHITECT JOHN F. CROOK STATE OF WASHINGTON

JOB NUMBER: 2006.004

SHEET NUMBER: **A8.02**

CONTENTS: WINDOW DETAILS

DATE: 09/29/06
BID SET

PROJECT STRUCTURAL NOTES: **(PE ELL, WASHINGTON)**

GENERAL INFORMATION:
1. GOVERNING CODE IS THE 2003 INTERNATIONAL BUILDING CODE AS AMENDED BY THE STATE OF WASHINGTON.
2. THE PROJECT WAS DESIGNED FOR THE FOLLOWING LOADS:
   a. LIVE LOADS:
      i. ROOF 25 PSF SNOW LOAD WITH SNOW DRIFT
      ii. MECHANICAL PLATFORM 75 PSF
   b. GROUND SNOW LOAD: 25 PSF
   c. WIND LOAD: 80 MPH EXPOSURE B (SIMPLIFIED WIND)
   d. SEISMIC LOAD: SEISMIC DESIGN CATEGORY: D
      SEISMIC SITE CLASS: D
      Ss = 1.091
      S1 = 0.432
3. THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING WORK.
4. SHOP DRAWINGS SHALL BE REQUIRED FOR REINFORCING STEEL, AND PREFABRICATED BEAMS OR AS REQUIRED BY REVIEWING JURISDICTION. SUBMIT 3 SETS OF DRAWINGS FOR REVIEW.
5. ALL FEATURES OF CONSTRUCTION NOT FULLY SHOWN SHALL BE OF THE SAME TYPE AND CHARACTER AS SHOWN FOR SIMILAR CONDITIONS, SUBJECT TO REVIEW OF AOR AND EOR.

SPECIAL INSPECTION:
1. SPECIAL INSPECTION REQUIRED SHALL BE PROVIDED PER IBC CHAPTER 17 AND AS REQUIRED BY LOCAL JURISDICTION.

FOUNDATIONS:
1. FOUNDATION SIZES ARE BASED ON TOTAL LOAD BEARING PRESSURE OF 1500 PSF (ASSUMED).
2. ALL FOOTINGS SHALL BE PLACED ON FIRM, UNDISTURBED NATIVE SOIL, OR ON ENGINEERED FILL COMPACTED TO MINIMUM OF 95% OF THE ASTM d 1557 DENSITY U.N.O. BY THE GEOTECHNICAL REPORT.
3. BOTTOM OF ALL FOOTINGS TO BE EMBEDDED BELOW FROST DEPTH OR PER GEOTECHNICAL REPORT, WHICHEVER IS GREATER.

REINFORCING STEEL:
1. ALL REINFORCING STEEL SHALL CONFORM TO ASTM A 615 GRADE 60.
2. WELDED WIRE FABRIC TO BE PER ASTM A185.
3. PLACE 2-0 X 2-0 BARS AT CORNERS AND INTERSECTIONS.
4. ALL REINFORCING STEEL SHALL BE DETAILED, FABRICATED, AND PLACED IN ACCORDANCE WITH ACI DETAILING MANUAL 315.
5. LAP ALL REINFORCING BARS MINIMUM 30".
6. SECURELY TIE ALL REINFORCING PRIOR TO PLACING CONCRETE.
7. PROVIDE 3" CLEARANCE FOR ALL REINFORCING IN CONCRETE CAST AGAINST EARTH, 2" FOR CONCRETE EXPOSED TO AIR, AND 1 1/2" FOR ALL INTERIOR EXPOSURE.

CONCRETE:
1. ALL CONCRETE SHALL DEVELOP A MINIMUM 28-DAY LAB CURED COMPRESSIVE STRENGTH OF 3000 PSI.
2. ALL EXPOSED CONCRETE TO HAVE 5% PLUS OR MINUS 1½ AIR, BY VOLUME, CONFORMING TO ASTM C 260.

FRAMING LUMBER:
1. ALL FRAMING LUMBER SHALL BE DOUGLAS FIR-LARCH AND SHALL BE GRADED UNDER THE MOST RECENTLY ADOPTED RULES OF THE WEST COAST LUMBER INSPECTION BUREAU (WCLIB).
2. ALL BEAMS AND JOISTS SHALL BE NUMBER 2 OR NUMBER 1 AS INDICATED ON THE PLANS.
3. ALL STUDS AND BLOCKING SHALL BE NUMBER 2.
4. ALL LUMBER IN CONTACT WITH CONCRETE OR EXPOSED SHALL BE PRESSURE TREATED IN ACCORDANCE WITH AWPA STANDARD C-2 AND SHALL BEAR THE AWPA QUALITY MARK.
5. DOUBLE ALL JOISTS UNDER WALL PARTITIONS, AND PROVIDE BLOCKING BETWEEN JOISTS WHERE BEARING WALLS ARE PERPENDICULAR TO JOISTS.
6. ALL GLULAMS BEAMS TO BE 24F-V4 TYPICAL, 24F-V8 FOR CANTILEVERED OR CONTINUOUS SPAN.
7. ALL LVL LUMBER TO BE MICROLAM LVL OR APPROVED EQUAL.
8. ALL PSL LUMBER TO BE PARALLAM PSL OR APPROVED EQUAL.
9. ALL LSL LUMBER TO BE TIMBERSTRAND LSL OR APPROVED EQUAL.

PLYWOOD SHEATHING:
1. ALL PLYWOOD SHALL BE C-D GRADE WITH EXTERIOR GLUE MANUFACTURED IN ACCORDANCE WITH THE UNITED STATES PRODUCT STANDARD PS 1-83/ANSI A199.1 "FOR CONSTRUCTION AND INDUSTRIAL PLYWOOD" AND SHALL CONFORM TO UBC STANDARD 23-2 AND SHALL BEAR THE APA TRADEMARK OF THE APA.
2. PLYWOOD SHALL BE LAID WITH END JOINTS STAGGERED.
3. BLOCK ALL SHEAR WALL SHEATHING WITH 2X BLOCKING AT ALL EDGES.
4. ROOF SHEATHING TO BE UNBLOCKED 1/2" C-D 24/0 PLY WITH 8d AT 6" O.C. PANEL EDGE NAILING AND 12" O.C. FIELD NAILING TYPICAL.
5. FLOOR SHEATHING TO BE UNBLOCKED 3/4" T&G C-D 32/16 PLY WITH 10d AT 6" O.C. PANEL EDGE NAILING AND 12" O.C. FIELD NAILING TYPICAL, U.N.O.
6. EXTERIOR WALLS TO BE 7/16" EXPOSURE I, C-D PLY OR OSB SHEATHING WITH 10d AT 6" O.C. PANEL EDGE NAILING AND 12" O.C. FIELD NAILING UNO. SEE SHEARWALL CALLOUTS AND SCHEDULE.
7. OSB MAY BE SUBSTITUTED FOR PLYWOOD WITH SAME SPAN RATING.

TIMBER FASTENERS:
1. ALL TIMBER MATERIAL SHALL BE FASTENED PER IBC TABLE 2304.9.1, "FASTENING SCHEDULE" U.N.O.

STRUCTURAL STEEL:
1. STRUCTURAL STEEL SHALL CONFORM WITH THE FOLLOWING:
   a. WIDE FLANGE SHAPES SHALL CONFORM TO ASTM A 572, GRADE 50 WITH AISC TECHNICAL BULLETIN #3.
   b. ANGLES AND PLATE SHALL CONFORM TO ASTM A36
   c. ANCHORS BOLTS TO BE A36 THREADED ROD OR A307 STANDRAD STOCK AS INDICATED IN HOLD DOWN SCHEDULE.
2. ALL FABRICATION, ERECTION, IDENTIFICATION, AND PAINTING SHALL CONFORM TO AISC SPECIFICATIONS.
3. ALL WELDING SHALL CONFORM TO AWS SPECIFICATIONS.
   a. ALL WELDERS TO BE QUALIFIED UNDER AWS SPECIFICATIONS
   b. WELDS SHALL BE MADE WITH 70 KSI FILLER METAL
4. NO SPECIAL INSPECTION REQUIRED FOR STRUCTURAL STEEL.

(#) HOLDOWN SCHEDULE — SIMPSON CATALOG C-2005 UPDATED 12/09/05

		ALLOWABLE LOAD (LBS.)				
MARK	SIMPSON MODEL	EQ	WIND	FASTENERS	ANCHORS	NOTES
1	MSTC28	1335	1600	16-16d SINKERS	-	APPLY OVER SHEATHING
2	MSTC40	3000	3600	36-16d SINKERS	-	APPLY OVER SHEATHING
2b	MSTC48B3	3930	3930	12 - 10d FACE 38-10d STUDS/POST 4 - 10d BOTTOM	-	STRAP TO BOTTOM OF BEAM MAY INSTALL OVER SHEATHING
3	MSTC52	4000	4585	48-16d SINKERS	-	APPLY OVER SHEATHING
4	MSTC66	5660	5660	68-18d SINKERS	-	APPLY OVER SHEATHING TO DBL STUD
4b	MSTC66B3	4440	4440	14 - 10d FACE 38-10d STUDS/POST 4 - 10d BOTTOM	-	STRAP TO BOTTOM OF BEAM MAY INSTALL OVER SHEATHING
5	MSTC78	5660	5660	76-16d SINKERS	-	APPLY OVER SHEATHING TO DBL STUD
6	CS16	1705	1705	28-8d	-	APPLY OVER SHEATHING
7	LTT20B	1750	1750	10-16d	1/2" THR'D ROD WITH DOUBLE NUT, 16" EMBED	(1) 2x STUD MIN.
8	HTT16	3480	4175	18-16d	5/8" THR'D ROD WITH DOUBLE NUT, 16" EMBED	(1) 2x STUD MIN.
9	HTT22	5260	5260	32-16d	5/8" THR'D ROD WITH DOUBLE NUT, 16" EMBED	(1) 2x STUD MIN.
10	PHD2-SDS3	3610	3610	10-SDS 1/4 SCREWS	SSTB16 OR 5/8" THR'D ROD WITH DOUBLE NUT, 16" EMBED	(2) 2x STUD MIN.
11	PHD5-SDS3	4685	4685	14-SDS 1/4 SCREWS	SSTB20 OR 5/8" THR'D ROD WITH DOUBLE NUT, 16" EMBED	(2) 2x STUD MIN.
12	PHD6-SDS3	5860	5860	18-SDS 1/4 SCREWS	SSTB28 OR 7/8" THR'D ROD WITH DOUBLE NUT, 16" EMBED	(2) 2x STUD MIN.
13	HDQ8-SDS3	8325	8325	20-SDS 1/4 SCREWS	SSTB28 OR 7/8" THR'D ROD WITH DOUBLE NUT, 16" EMBED	(2) 2x STUD MIN.
13b	HHDQ11-SDS2.5	11445	11445	24-SDS 1/4 SCREWS	1" THR'D ROD WITH DOUBLE NUT, EMBED 3" BOT. FTG.	USE 4x6 POST
13c	HHDQ14-SDS2.5	14700	14700	30-SDS 1/4 SCREWS	1" THR'D ROD WITH DOUBLE NUT, EMBED 3" BOT. FTG.	USE 4x6 POST
14	HD2A	1555	1555	2-5/8" BOLTS	SSTB16 OR 5/8" THR'D ROD WITH DOUBLE NUT, 16" EMBED	(1) 2x STUD MIN.
14A		2775	2775	2-5/8" BOLTS	SSTB16 OR 5/8" THR'D ROD WITH DOUBLE NUT, 16" EMBED	(2) 2x STUD MIN.
15	HD5A	1870	1870	2-3/4" BOLTS	SSTB16 OR 5/8" THR'D ROD WITH DOUBLE NUT, 16" EMBED	(1) 2x STUD MIN.
15A		3705	3705	2-3/4" BOLTS	SSTB16 OR 5/8" THR'D ROD WITH DOUBLE NUT, 16" EMBED	(2) 2x STUD MIN.
16	HD8A	2275	2275	2-7/8" BOLTS	SSTB16 OR 5/8" THR'D ROD WITH DOUBLE NUT, 16" EMBED	(1) 2x STUD MIN.
16A		4405	4405	2-7/8" BOLTS	SSTB16 OR 5/8" THR'D ROD WITH DOUBLE NUT, 16" EMBED	(2) 2x STUD MIN.
17	HD8A	3220	3220	3-7/8" BOLTS	SSTB20 OR 7/8" THR'D ROD WITH DOUBLE NUT, 16" EMBED	(1) 2x STUD MIN.
17A		6465	6465	3-7/8" BOLTS	SSTB16 OR 7/8" THR'D ROD WITH DOUBLE NUT, 16" EMBED	(2) 2x STUD MIN.
18	HD10A	3945	3945	4-7/8" BOLTS	SSTB28 OR 7/8" THR'D ROD WITH DOUBLE NUT, 16" EMBED	(1) 2x STUD MIN.
18A		8310	8310	4-7/8" BOLTS	SSTB16 OR 7/8" THR'D ROD WITH DOUBLE NUT, 16" EMBED	(2) 2x STUD MIN.
19	HD14A	11080	11080	4-1" BOLTS	SSTB28 OR 7/8" THR'D ROD WITH DOUBLE NUT, 16" EMBED	USE 4x6 POST
19A		13380	13380	4'-1" BOLTS	1" THR'D ROD WITH DOUBLE NUT, EMBED 3" BOT. FTG.	USE 4x6 POST
20	HD15	15305	15305	5-1" BOLTS	1 1/8" THR'D ROD WITH DOUBLE NUT, EMBED 3" BOT. FTG.	USE 4x6 POST

1. NAILS ARE TO BE COMMON WIRE NAILS, U.N.O.
2. HARDWARE IS TO BE SIMPSON, U.N.O.
3. HOLDOWN HARDWARE CAN BE EXTENDED WITH A307 THRD ROD AND COUPLER.
4. ALIGN ALL HOLDOWNS FOR THE FULL HEIGHT OF STRUCTURE.
5. ALL HARDWARE TO BE INSTALLED PER MANUFACTURE'S RECOMMENDATIONS.
6. HOLDOWN ANCHOR BOLTS ARE IN ADDITION TO TYPICAL SILL PLATE ANCHOR BOLTS.
7. CAPACITIES PER REVISED SIMPSON CATALOG C-2004.

(#) SHEARWALL SCHEDULE

MARK	SHEATHING	SHEAR (PLF)	NAIL SIZE	EDGE NAILS (O.C.)	FIELD NAILS (O.C.)	A35 (O.C.)	5/8"x10" A.B. (O.C.)	NOTES
G1	1/2" GYPSUM ,ONE SIDE	75	7d COOLER	4"	10"	6'-0"	6'-0"	
G2	1/2" GYPSUM, EACH SIDE	150	7d COOLER	4"	10"	3'-0"	6'-0"	
G3	5/8" GYPSUM, ONE SIDE	88	7d COOLER	4"	10"	5'-0"	6'-0"	
G4	5/8" GYPSUM, EACH SIDE	175	7d COOLER	4"	10"	2'-6"	6'-0"	
*	7/16" APA RATED, ONE SIDE	260	8d	6"	12"	2'-0"	5'-0"	
A	7/16" APA RATED, ONE SIDE	380	8d	4"	12"	1'-4"	3'-6"	
B	7/16" APA RATED ,ONE SIDE	490	8d	3"	12"	1'-0"	2'-9"	
C	7/16" APA RATED, ONE SIDE	640	8d	2"	12"	0'-9"	2'-0"	USE 3x STUDS
D	7/16" APA RATED ,EACH SIDE	520	8d	6"	12"	1'-0"	2'-5"	
E	7/16" APA RATED, EACH SIDE	760	8d	4"	12"	0'-8"	1'-6"	STAGGER PANEL EDGES AND NAILING
F	7/16" APA RATED, EACH SIDE	980	8d	3"	12"	0'-8"	1'-4"	STAGGER PANEL EDGES AND NAILING
G	7/16" APA RATED, EACH SIDE	1280	8d	2"	12"	0'-4"	1'-0"	STAGGER PANEL EDGES AND NAILING
H	15/32" APA RATED, ONE SIDE	310	10d	6"	12"	1'-6"	4'-0"	
I	15/32" APA RATED, ONE SIDE	460	10d	4"	12"	1'-0"	2'-6"	
J	15/32" APA RATED, ONE SIDE	600	10d	3"	12"	0'-9"	2'-0"	
K	15/32" APA RATED, ONE SIDE	770	10d	2"	12"	0'-6"	1'-6"	USE 3x STUDS
L	15/32" APA RATED, EACH SIDE	620	10d	6"	12"	0'-9"	2'-0"	
M	15/32" APA RATED, EACH SIDE	920	10d	4"	12"	0'-6"	1'-4"	STAGGER PANEL EDGES AND NAILING
N	15/32" APA RATED, EACH SIDE	1200	10d	3"	12"	0'-4"	1'-0"	STAGGER PANEL EDGES AND NAILING
O	15/32" APA RATED, EACH SIDE	1540	10d	2"	12"	0'-4"	0'-9"	STAGGER PANEL EDGES AND NAILING

1. ALL PLYWOOD TO BE APA RATED CC-CD EXTERIOR SHEATHING
2. ALL NAILS TO BE GALVANIZED BOX OR COMMON TYPE.
3. FLOOR AND ROOF DIAPHRAGMS TO BE NAILED WITH 10d NAILS @ 6" O.C. EDGE NAILING AND 12" ON CENTER FIELD NAILING. USE PLYWOOD THICKNESS AS INDICATED ON PLAN.
4. ATTACH RIM JOIST AND / OR BLOCKING TO SHEARWALL AS INDICATED IN TABLE ABOVE.
5. ALL WALL SHEATHING TO EXTEND FULL HEIGHT OF WALL, TOP PLATE TO BOTTOM PLATE.
6. ALL SHEARWALLS AND HOLDOWNS MUST HAVE CONTINUOUS LOAD PATH TO FOUNDATION.
7. USE SIMPSON BPS/8 PLATE TYPICAL AT ALL ANCHOR BOLTS, WHERE SHEAR > 350 PLF.
8. ALL VALUES LISTED FOR 8d NIALING ARE FOR WALL STUDS @ 16" O.C. OR PANELS APPLIED W/ LONG DIRECTION TO STUDS.
9. **WASHINGTON:** FOR **ALL** SHEAR WALLS WITH A REQUIRED SHEAR OF 350 POUNDS PER LINEAR FOOT OR GREATER. 3x NOMINAL PRESSURE TREATED SILL PLATE MEMBERS ARE TO BE USED. IN ADDITION, 3x NOMINAL MATERIAL IS TO BE USED WHEN PLYWOOD IS APPLIED TO BOTH SIDES OF THE WALL WITH A NAIL SPACING CLOSER THAN 6 INCHES ON CENTER.

ABBREVIATIONS

#	- NUMBER OF POUNDS	G.W.B.	- GYPSUM WALL BOARD
&	- AND	GYP.	- GYPSUM
@	- AT	HGR.	- HANGER
℄	- CENTER LINE	HORIZ.	- HORIZONTAL
▭	- PLATE	HT.	- HEIGHT
Ø	- DIAMETER OF ROUND	I.S.F.	- INSIDE FACE
WF	- WIDE FLANGE MEMBER	LBS.	- POUNDS
(E)	- EXISTING	LDGR.	- LEDGER
(N)	- NEW	M.B.	- MACHINE BOLT
A.B.	- ANCHOR BOLT	MBR.	- MEMBER
ARCH	- ARCHITECT	MANUF.	- MANUFACTURER
BLD'G	- BUILDING	MAS.	- MASONRY
BLK'G	- BLOCKING	MAX.	- MAXIMUM
BTM.	- BOTTOM	MIN.	- MINIMUM
C.J.	- CONTROL JOINT	MISC.	- MISCELLANEOUS
CLG	- CEILING	NTS	- NOT TO SCALE
CLR	- CLEAR	NO.	- NUMBER
CTSK.	- COUNTERSINK	O.C.	- ON CENTER
COL.	- COLUMN	OPP.	- OPPOSITE
CONC.	- CONCRETE	OPP.HD.	- OPPOSITE HAND
CONN.	- CONNECTION	O.S.F.	- OUTSIDE FACE
CONT.	- CONTINUOUS	P.E.N.	-PANEL EDGE NAILING
c/c	- CENTER TO CENTER	PLCS.	- PLACES
DBL.	- DOUBLE	PLY'D.	- PLYWOOD
DIA.	- DIAMETER	REF.	- REFERENCE
DN.	- DOWN	REINF.	- REINFORCING
DTL.	- DETAIL	REQ'D	- REQUIRED
DWG	- DRAWING	SHT'G	- SHEATHING
EA.	- EACH	SIM.	- SIMILAR
E.W.	- EACH WAY	STD	- STANDARD
EL.	- ELEVATION	STL	- STEEL
ENG.	- ENGINEER	T&B	- TOP AND BOTTOM
EQ.	- EQUAL	T&G	- TONGUE AND GROOVE
E.J.	- EXPANSION JOINT	T.O.C.	- TOP OF CONCRETE
EXT.	- EXTERIOR	T.O.F.	- TOP OF FOOTING
FLR.	- FLOOR	T.O.S.	- TOP OF STEEL
FND.	- FOUNDATION	T.O.W.	- TOP OF WALL
F.O.C.	- FACE OF CONCRETE	TS.	- STRUCTURAL TUBE
F.O.S.	- FACE OF STUD	TYP.	- TYPICAL
F.O.M.	- FACE OF MASONRY	UNO	- UNLESS NOTED OTHERWISE
FTG.	- FOOTING	VERT.	- VERTICAL
GA.	- GAUGE	W	- WITH
GALV.	- GALVANIZED	W/O	- WITHOUT
GLB.	- GLUE LAMINATED BEAM	WT.	- WEIGHT
		W.W.F.	- WELDED WIRE FABRIC

JFC ARCHITECTS inc.
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DESCRIPTION	REV	DATE

ADDITIONS AND MODERNIZATIONS TO
PE ELL ELEMENTARY, MIDDLE AND HIGH SCHOOLS
PE ELL SCHOOL DISTRICT NO. 301
PE ELL, WASHINGTON

SEAL:
CHRIS DOUGLAS
REGISTERED
PROFESSIONAL ENGINEER
EXPIRES 03/19/08

JOB NUMBER: P-0644-06

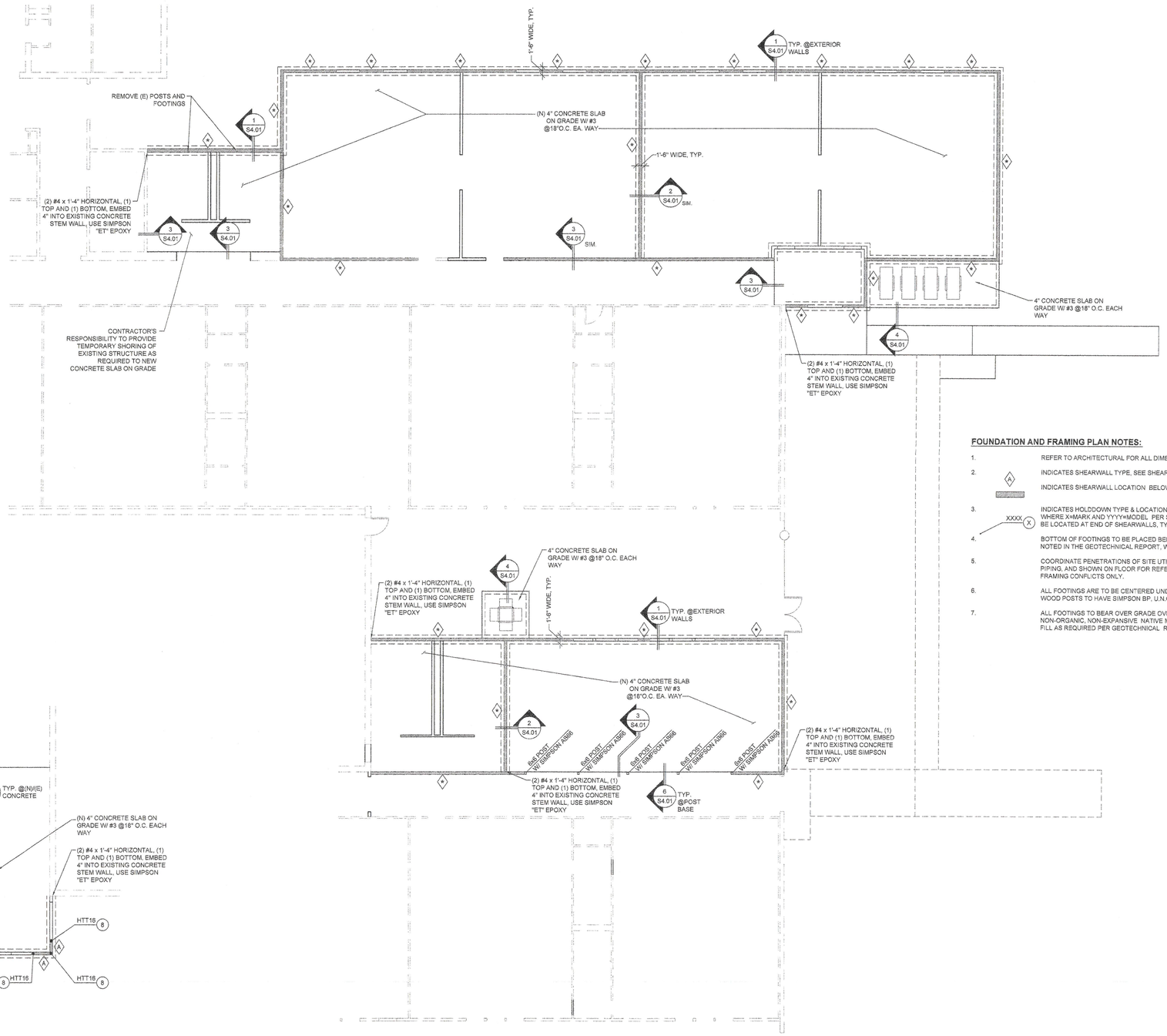
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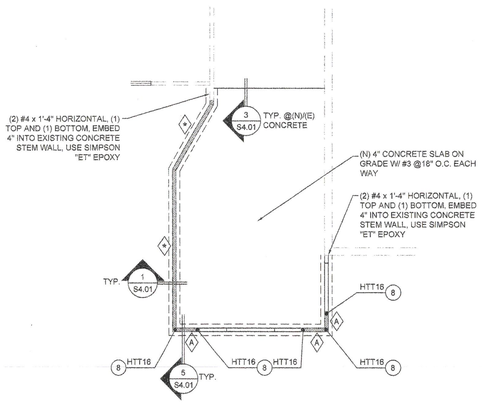
CONTENTS: STRUCTURAL NOTES, SCHEDULES, ABRV.

DATE: 09/29/06

BID SET

ZBINDEN • CARTER • SOUDERS
ENGINEERING INC
10101 SW Sunnyside, Suite 205, Portland, OR 97015
(503) 659-2825 phone (503) 659-8433 fax





2 S2.01 ALTERNATE NO. 1: HIGH SCHOOL ENTRY FOUNDATION PLAN
SCALE: 1/8" = 1'-0"

1 S2.01 ELEMENTARY/MIDDLE SCHOOL FOUNDATION PLAN
SCALE: 1/8" = 1'-0"

NORTH

FOUNDATION AND FRAMING PLAN NOTES:

1. REFER TO ARCHITECTURAL FOR ALL DIMENSIONING.
2. A — INDICATES SHEARWALL TYPE, SEE SHEARWALL SCHEDULE.
   INDICATES SHEARWALL LOCATION BELOW FRAMING. SEE SCHEDULE.
3. XXXX (X) — INDICATES HOLDDOWN TYPE & LOCATION AT TOP OF WALLPLATE WHERE X=MARK AND YYYY=MODEL PER SCHEDULE. HOLDDOWNS TO BE LOCATED AT END OF SHEARWALLS, TYPICAL U.N.O. ON PLAN.
4. BOTTOM OF FOOTINGS TO BE PLACED BELOW FROST DEPTH OR AS NOTED IN THE GEOTECHNICAL REPORT, WHICHEVER IS GREATER.
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6. ALL FOOTINGS ARE TO BE CENTERED UNDER COLUMNS U.N.O. ALL WOOD POSTS TO HAVE SIMPSON BP, U.N.O.
7. ALL FOOTINGS TO BEAR OVER GRADE OVER FIRM, UNDISTURBED, NON-ORGANIC, NON-EXPANSIVE NATIVE MATERIAL, OR STRUCTURAL FILL AS REQUIRED PER GEOTECHNICAL REPORT.

JFC ARCHITECTS inc.
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DESCRIPTION	REV	DATE

ADDITIONS AND MODERNIZATIONS TO PE ELL ELEMENTARY, MIDDLE AND HIGH SCHOOLS

PE ELL SCHOOL DISTRICT NO. 301
PE ELL, WASHINGTON

SEAL:

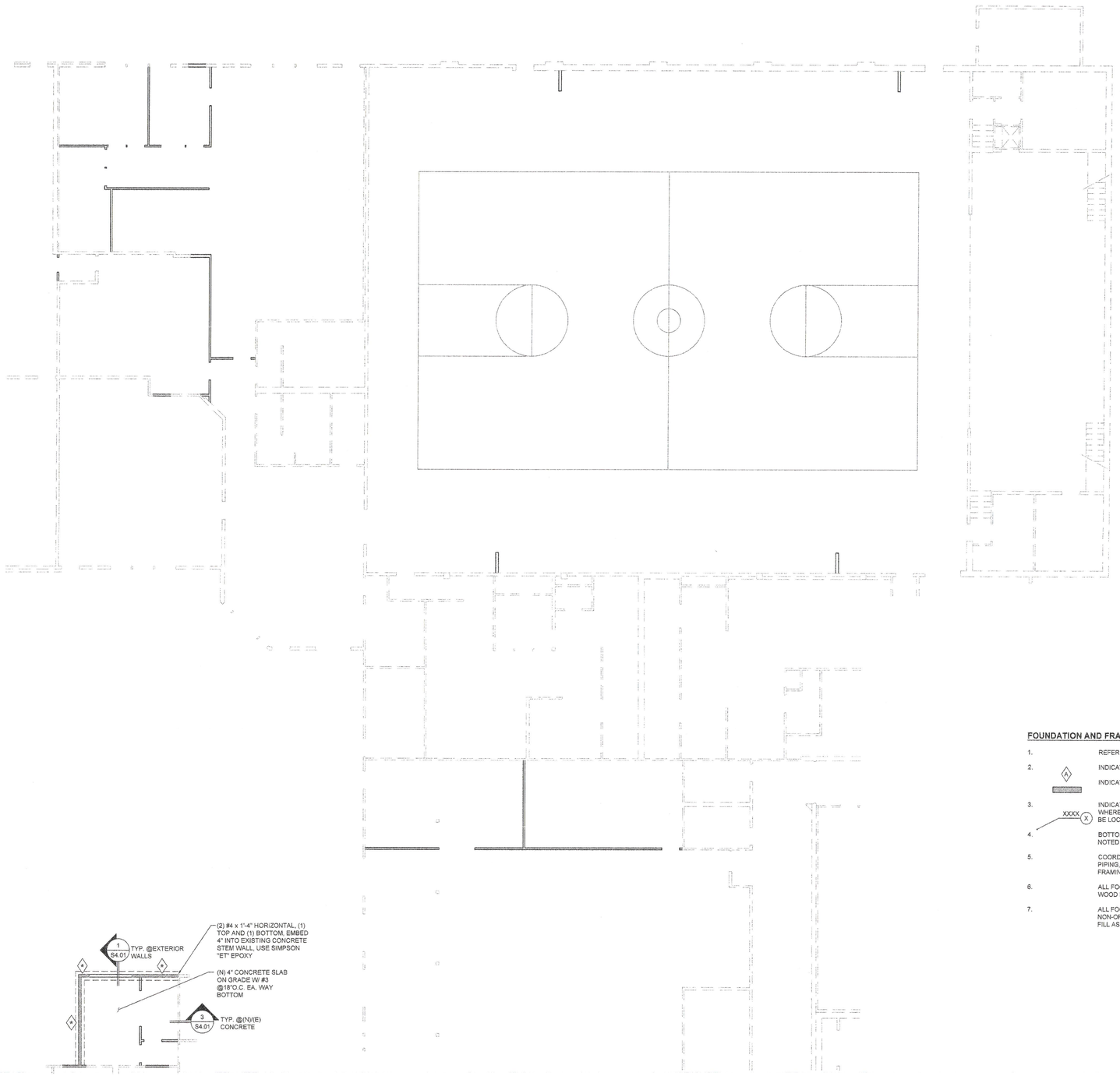
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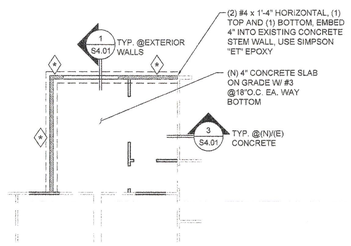
SHEET NUMBER: S2.01

CONTENTS: FOUNDATION

DATE: 09/29/06
BID SET

ZCS ENGINEERING
ZABINDEN • CARTER • SOUDERS
10181 SW Sunnyside, Suite 805, Clackamas, OR 97015
(503) 659-0805 phone (503) 659-9453 fax





2 S2.02 ALTERNATE NO. 2: FOUNDATION PLAN
SCALE: 1/8" = 1'-0"

NORTH

1 S2.02 FOUNDATION PLAN
SCALE: 1/8" = 1'-0"

NORTH

FOUNDATION AND FRAMING PLAN NOTES:

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   INDICATES SHEARWALL LOCATION BELOW FRAMING. SEE SCHEDULE.
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DESCRIPTION	REV	DATE

ADDITIONS AND MODERNIZATIONS TO PE ELL ELEMENTARY, MIDDLE AND HIGH SCHOOLS

PE ELL SCHOOL DISTRICT NO. 301
PE ELL, WASHINGTON

SEAL:

EXPIRES 03/15/08

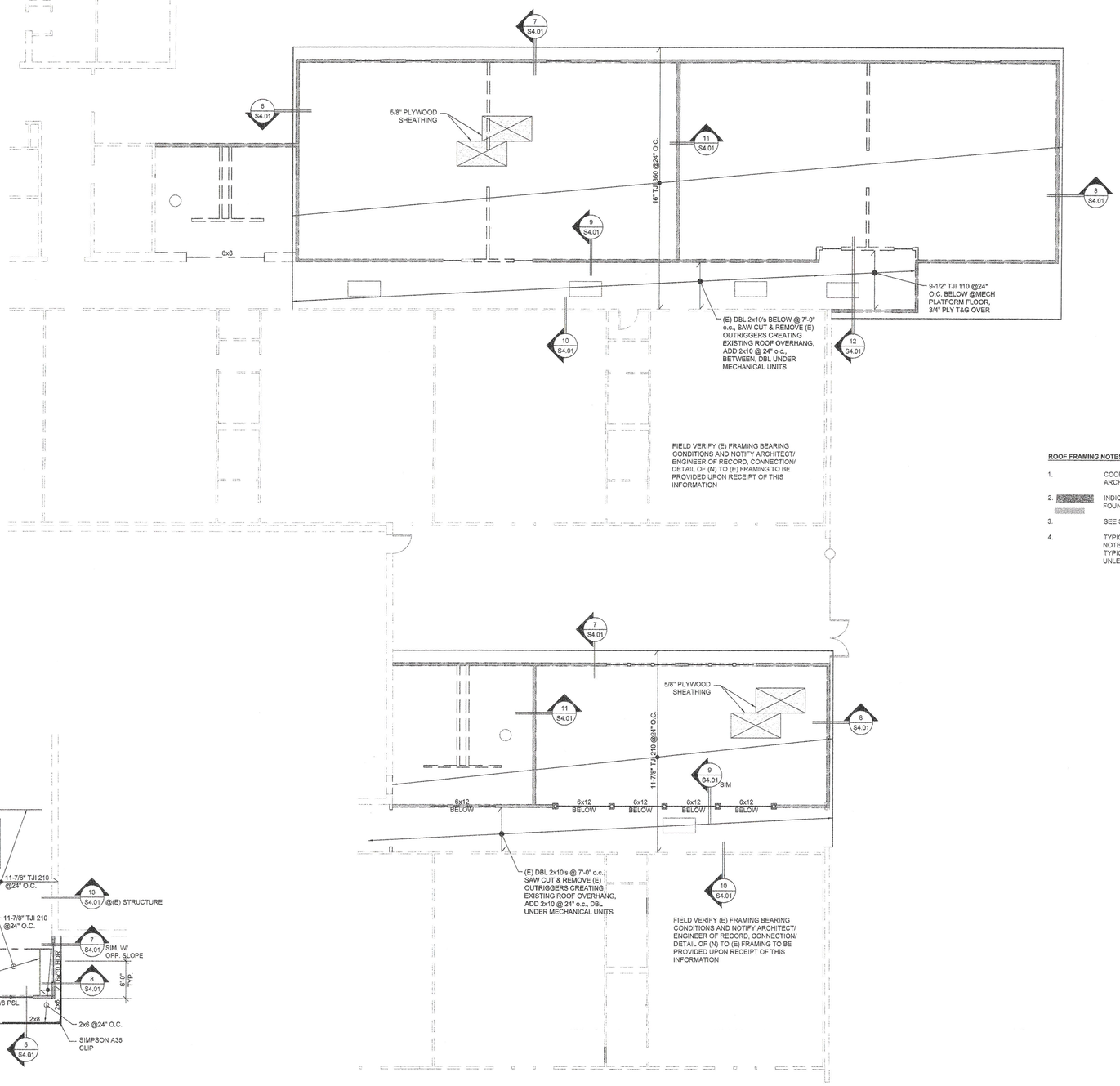
JOB NUMBER: P-0644-06

SHEET NUMBER: S2.02

CONTENTS: FOUNDATION

DATE: 09/29/06
BID SET

ZBINDEN • CARTER • SOUDERS
ENGINEERING
10121 SW Sunnyside, Suite 205, Clackamas, OR 97015
(503) 659-0505 phone (503) 659-0433 fax



ROOF FRAMING NOTES:

1. COORDINATE ALL DIMENSIONS & FEATURES NOT SHOWN WITH ARCHITECT.
2. INDICATES SHEARWALL LOCATION BELOW FRAMING. SEE FOUNDATION PLAN & SCHEDULE.
3. SEE SHEET S1 FOR ALL NOTES AND SCHEDULES.
4. TYPICAL EXTERIOR WALL HEADER TO BE 6x8 DFL NO. 2, UNLESS NOTED OTHERWISE.
   TYPICAL INTERIOR NON-BEARING WALL HEADER TO BE 4x6 DFL NO. 2, UNLESS NOTED OTHERWISE.

2 S3.01 ALTERNATE NO. 1: HIGH SCHOOL ENTRY FRAMING PLAN
SCALE: 1/8" = 1'-0"

NORTH

1 S3.01 ELEMENTARY/MIDDLE SCHOOL FRAMING PLAN
SCALE: 1/8" = 1'-0"

NORTH

JFC ARCHITECTS inc.
1106 DOUGLAS
SUITE G
LONGVIEW, WA 98632
WA: (360) 425-3030
FAX:(360) 425-2525

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DESCRIPTION	REV	DATE

ADDITIONS AND MODERNIZATIONS TO PE ELL ELEMENTARY, MIDDLE AND HIGH SCHOOLS

PE ELL SCHOOL DISTRICT NO. 301
PE ELL, WASHINGTON

SEAL:

EXPIRES 03/15/08

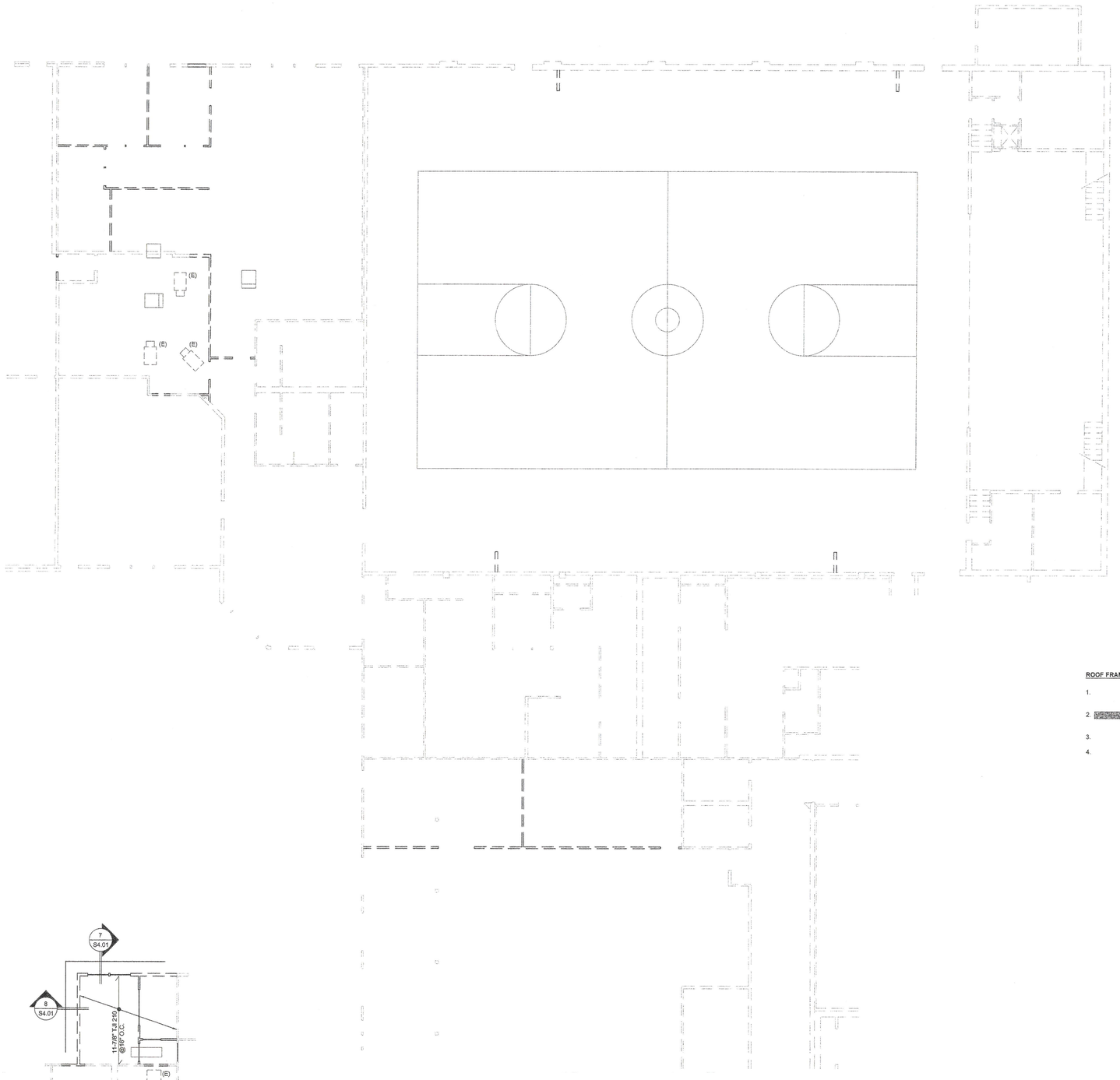
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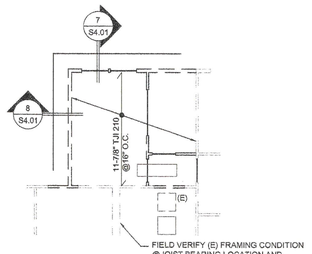
SHEET NUMBER: S3.01

CONTENTS: ROOF FRAMING PLAN

DATE: 09/29/06
BID SET

ZBINDEN • CARTER • SOUDERS
ENGINEERING
10181 SW Sunnyside, Suite 205, Clackamas, OR 97015
(503) 699-0005 phone (503) 699-0433 fax





FIELD VERIFY (E) FRAMING CONDITION @JOIST BEARING LOCATION AND NOTIFY ARCHITECT/ ENGINEER OF RECORD. DETAIL @BEARING POINT TO BE PROVIDED UPON RECEIPT OF FIELD VERIFICATION

2 S3.02 ALTERNATE NO. 2: FRAMING PLAN
SCALE: 1/8" = 1'-0"

NORTH

1 S3.02 FOUNDATION PLAN
SCALE: 1/8" = 1'-0"

NORTH

ROOF FRAMING NOTES:

1. COORDINATE ALL DIMENSIONS & FEATURES NOT SHOWN WITH ARCHITECT.
2. INDICATES SHEARWALL LOCATION BELOW FRAMING. SEE FOUNDATION PLAN & SCHEDULE.
3. SEE SHEET S1 FOR ALL NOTES AND SCHEDULES.
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   TYPICAL INTERIOR NON-BEARING WALL HEADER TO BE 4x6 DFL NO. 2, UNLESS NOTED OTHERWISE.

JFC ARCHITECTS inc.
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DESCRIPTION	REV.	DATE

ADDITIONS AND MODERNIZATIONS TO PE ELL ELEMENTARY, MIDDLE AND HIGH SCHOOLS

PE ELL SCHOOL DISTRICT NO. 301
PE ELL, WASHINGTON

SEAL:



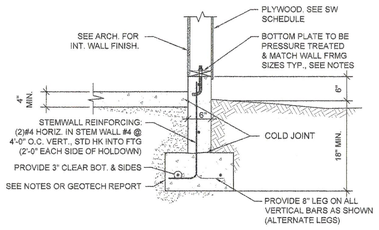
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SHEET NUMBER: S3.02

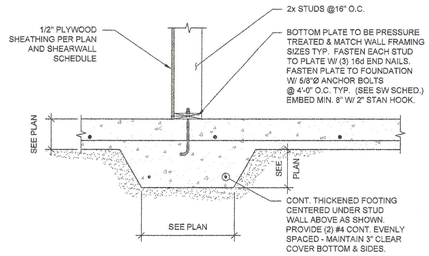
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DATE: 09/29/06
BID SET

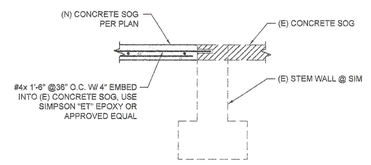
ZBINDEN • CARTER • SOUDERS
ENGINEERING
10161 SW Sunnyside, Suite 605, Portland, OR 97015
(503) 650-0305 phone (503) 650-0433 fax



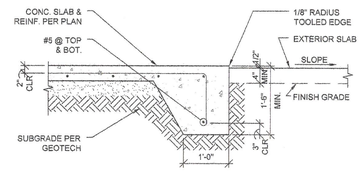
1 S4.01 SLAB / FOOTING SECTION
3/4" = 1'-0"



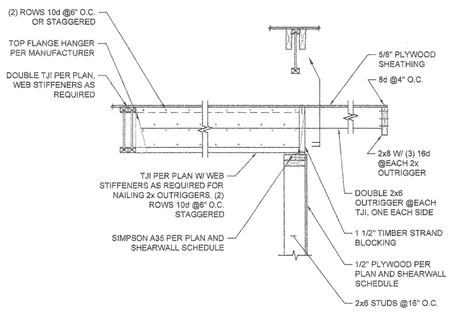
2 S4.01 INTERIOR CONT. FOOTING
3/4" = 1'-0"



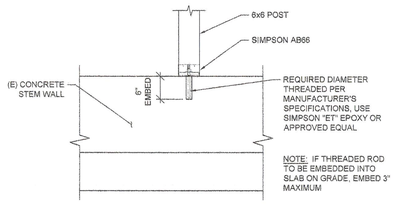
3 S4.01 NEW/ EXISTING CONCRETE INTERFACE
3/4" = 1'-0"



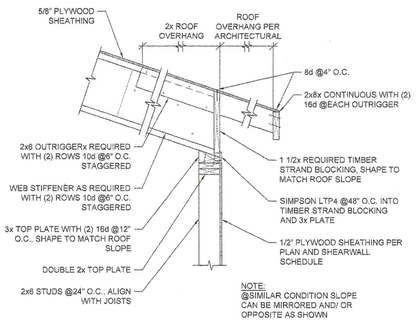
4 S4.01 TURN DOWN SLAB EDGE
3/4" = 1'-0"



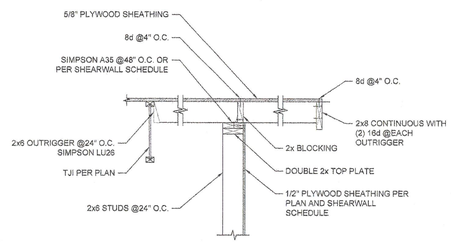
5 S4.01 14 STEEL COL/ BASE PLATE ON STEM WALL
3/4" = 1'-0"



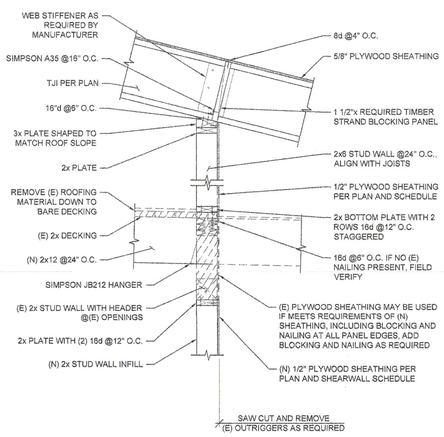
6 S4.01 POST @ BASE
3/4" = 1'-0"



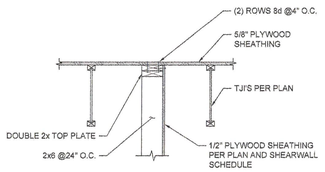
7 S4.01 TYPICAL ROOF DETAIL
3/4" = 1'-0"



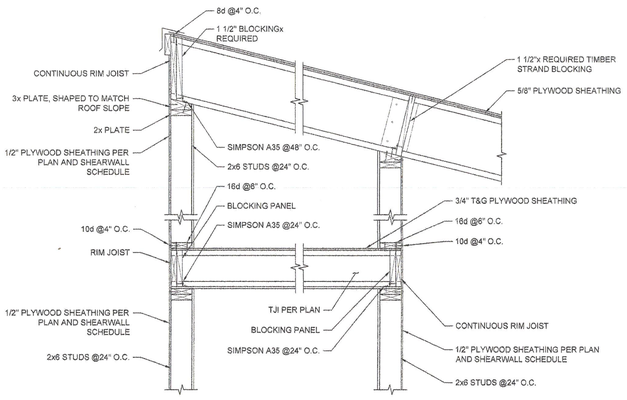
8 S4.01 TYPICAL ROOF DETAIL
3/4" = 1'-0"



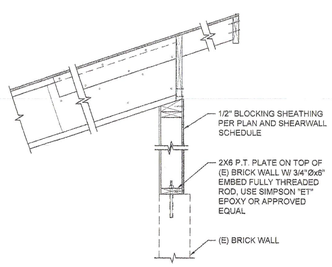
9 S4.01 TYPICAL ROOF DETAIL
3/4" = 1'-0"



11 S4.01 SECTION @FLOOR
3/4" = 1'-0"



12 S4.01 DETAIL
3/4" = 1'-0"



13 S4.01 DETAIL
3/4" = 1'-0"

JFC ARCHITECTS inc.
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LONGVIEW, WA 98632
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DESCRIPTION	REV	DATE

ADDITIONS AND MODERNIZATIONS TO PE ELL ELEMENTARY, MIDDLE AND HIGH SCHOOLS

PE ELL SCHOOL DISTRICT NO. 301
PE ELL, WASHINGTON

SEAL:

JOB NUMBER: P-0644-06

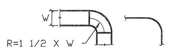
SHEET NUMBER: S4.01

CONTENTS: DETAILS

DATE: 09/29/06
BID SET

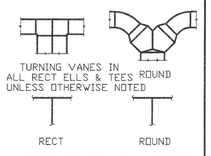
ZABINDEN • CARTER • SOUDERS
ENGINEERING
10161 SW Scholls Ferry Rd., Suite 205, Oaks Park, OR 97223
(503) 639-0205 phone (503) 639-0433 fax

DUCT DETAILS (LOW VELOCITY)

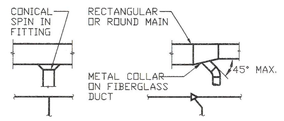


5 SECTIONS IN ROUND & RECTANGULAR FIBERGLASS DUCT

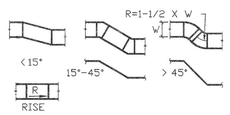
RADIUS ELBOW



MITER ELBOWS & TEES

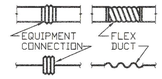


RECTANGULAR TO ROUND FITTINGS

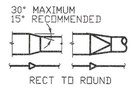


3 SECTIONS IN ROUND & RECT. FIBERGLASS DUCT

OFFSETS

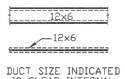


FLEX CONNECTIONS



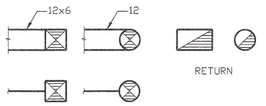
RECT TO ROUND

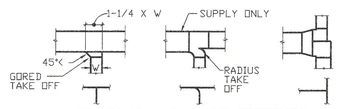
TRANSITIONS



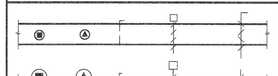
DUCT SIZE INDICATED IS CLEAR INTERNAL DIMENSION (INCHES)

ACOUSTICAL LINER





RECTANGULAR DUCT FITTINGS



DAMPERS

- (S) TEMP SENSOR
- (T) WALL MOUNT THERMOSTAT
- (T) NLL NIGHT LOW LIMIT
- (T) CEILING MOUNT

TSTAT/SENSOR

PIPING LEGEND

- PIPING TO BE REMOVED
- (N) PIPING / EQUIPMENT TO BE PROVIDED
- (E) PIPING / EQUIPMENT TO REMAIN
- (F) PIPING / EQUIPMENT

PLUMBING

CONCRETE SOIL PIPE	CSP	CSP
SANITARY DRAIN (ABOVE GRADE DRAIN)	W	W
SANITARY DRAIN (BELOW GRADE DRAIN)	WUF	W
SANITARY DRAIN (PUMPED)	W	
STORM DRAIN (ABOVE GRADE DRAIN)	SD	SD
STORM DRAIN (BELOW GRADE DRAIN)	SDU	SD
VENT	V	V
ACID DRAIN	ACID	ACID
ACID VENT	AV	AV
COLD WATER	CW	
HOT WATER	HW	
HOT WATER RETURN	HWR	
NATURAL GAS	G	G
DENTAL VACUUM	DV	DV
MEDICAL VACUUM	MV	MV
DENTAL AIR	DA	DA
COMPRESSED AIR	A	AIR
PROPANE	P	P
OXYGEN	O_2	O_2
FIRE PROTECTION	F	F

HVAC

STEAM (15 PSIG)	S	S
CONDENSATE RETURN	C	C
CONDENSATE RETURN (PUMPED)	PC	PC
HEATING WATER SUPPLY (LOW TEMP)	HWS	HWS
HEATING WATER RETURN	HWR	HWR
REFRIGERANT LIQUID LINE	RL	RL
REFRIGERANT SUCTION LINE	RS	RS
CHILLED WATER SUPPLY	CHS	CHS
CHILLED WATER RETURN	CHR	CHR
CONDENSING WATER SUPPLY	CWS	CWS
CONDENSING WATER RETURN	CWR	CWR
FUEL OIL SUPPLY	FOS	FOS
FUEL OIL RETURN	FOR	FOR
FUEL OIL VENT	FOV	FOV
DRAIN (INDIRECT)	D	D
PROCESS WATER	PW	PW

VALVE SYMBOLS

- TRIPLE DUTY
- BALL
- BUTTERFLY
- CHECK, SWING
- CHECK, BALL
- CHECK, SPRING
- BALANCING
- FLOW CONTROL
- DIAPHRAGM
- FLOAT
- GATE
- GATE
- GATE ANGLE
- GLOBE
- GLOBE ANGLE
- HOSE BIBB
- PLUG
- PRV — PRESSURE REDUCING (NUMBERED AND SPECIFIED)
- SAFETY RELIEF
- SOLENOID
- 2-WAY CONTROL
- 3-WAY CONTROL

PLUMBING SYMBOLS

- FLOOR DRAIN, SQUARE
- FLOOR DRAIN, ROUND
- FLOOR/GRADE CLEANOUT
- WALL CLEANOUT
- FLOOR SINK, OPEN
- FLOOR SINK, 1/2 GRATE
- CB — CATCH BASIN, SQUARE
- CATCH BASIN, ROUND
- HOSE BIBB
- PENDANT SPRINKLER
- UPRIGHT SPRINKLER
- SIDEWALL SPRINKLER
- POST INDICATOR VALVE
- FIRE HYDRANT
- FDC — FIRE DEPARTMENT CONNECTION (SIAMESE)
- BACKFLOW PREVENTER
- XX — BACKFLOW PREVENTER REDUCED PRESSURE TYPE
- WHA — WATER HAMMER ARRESTOR

PIPING SYMBOLS

TEES

- TEE
- OUTLET UP
- OUTLET DOWN

ELBOWS

- 90°, 45°
- OUTLET UP
- OUTLET DOWN

REDUCERS

- 3"/2" — BUSHING
- CONCENTRIC
- ECCENTRIC STRAIGHT INVERT
- ECCENTRIC STRAIGHT CROWN

CONNECTORS

- UNION
- CAP
- EXPANSION JOINT
- FLEXIBLE JOINT

STRAINERS/FILTERS

- Y-PATTERN W/PLUG
- Y-PATTERN W/BLOWOFF
- Y-PATTERN W/BLOWOFF & CHAINED CAP
- DUPLEX STRAINER
- FILTER HOUSING
- AIR SEPARATOR

SUPPORTS

- ANCHOR
- GUIDE

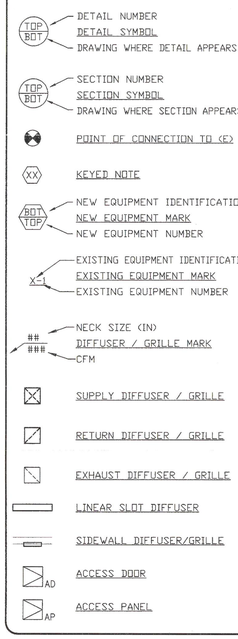
MISC

- AAV — AUTOMATIC AIR VENT, AAV
- MAV — MANUAL AIR VENT, MAV
- PETE'S PLUG
- THERMOMETER
- R — RISE
- GAUGE COCK

NOTE:

NOT ALL SYMBOLS AND ABBREVIATIONS MAY BE USED.

ABBREVIATIONS/SYMBOLS



A AMP	EL ELEVATION	LH LATENT HEAT	SM SHEET METAL		
AAV AUTOMATIC AIR VENT	ELEC ELECTRIC(AL)	LIQ LIQUID	SP STATIC PRESSURE		
AD ACCESS DOOR	ENGR ENGINEER(ING)	LVG LEAVING	SPEC SPECIFICATION(S)		
ADA AMERICAN DISABILITIES ACT	ENT ENTERING	LWT LEAVING WATER TEMPERATURE	SQ FT SQUARE FEET		
AF AIR FOIL (FAN)	EQUIP EQUIPMENT		SS STAINLESS STEEL		
AFF ABOVE FINISHED FLOOR	ESP EXTERNAL STATIC PRESSURE	MANF MANUFACTURER('S)	STD STANDARD		
AG ABOVE GRADE	EWT ENTERING WATER TEMPERATURE	MAV MANUAL AIR VENT	STL STEEL		
AHU AIR HANDLING UNIT	EXH EXHAUST (AIR)	MAX MAXIMUM	STRUCT STRUCTURAL		
AL ALUMINUM	EXIST EXISTING	MBH BTU PER HOUR (THOUSANDS)	SYS SYSTEM		
AMB AMBIENT	EXP EXPANSION	MECH MECHANICAL			
AP ACCESS PANEL	EVAP EVAPORAT - (E, ED, ING, OR)	MIN MINIMUM	TBD TO BE DETERMINED		
APD AIR PRESSURE DROP		MVD MANUAL VOLUME DAMPER	TEMP TEMPERATURE		
APPROX APPROXIMATE(LY)	(F) FUTURE		TDL TOTAL DEVELOPED LENGTH		
ARCH ARCHITECT(URAL)	F FAHRENHEIT	N/A NOT APPLICABLE	TDD TDP OF DUCT		
ATM ATMOSPHER - (E, IC)	FA FACE AREA	NC NOISE CRITERIA / NORMALLY CLOSED	TONS TONS OF REFRIGERATION		
AVG AVERAGE	FC FORWARD CURVED (FAN)	NIC NOT IN CONTRACT	TOP TOP OF PIPE		
	FCO FLOOR CLEAN OUT	NIM NOT IN MECHANICAL	TSP TOTAL STATIC PRESSURE		
BAS BUILDING AUTOMATION SYSTEM (DDC)	FD FIRE DAMPER / FLOOR DRAIN	NO NORMALLY OPEN / NUMBER	TSTAT THERMOSTAT		
BDD BACK DRAFT DAMPER	FF FINISHED FLOOR	NTS NOT TO SCALE	TYP TYPICAL		
BFP BACKFLOW PREVENTER	FLG FLANGE				
BG BELOW GRADE	FPM FEET PER MINUTE	OBD OPPOSED BLADE DAMPER	UON UNLESS OTHERWISE NOTED		
BHP BRAKE HORSEPOWER	FPS FEET PER SECOND	OC ON CENTER			
BI BACKWARD INCLINED (FAN)	FPT FEMALE PIPE THREAD	OD OUTSIDE DIAMETER / OVERFLOW DRAIN	V VALVE / VENT / VOLTS		
BLDG BUILDING	FRA FREE AREA	OFCI OWNER FURNISHED CONTRACTOR INSTALLED	VAC VACUUM		
BMS BUILDING MANAGEMENT SYSTEM (DDC)	FS FLOOR SINK	OFOI OWNER FURNISHED OWNER INSTALLED	VAV VARIABLE AIR VOLUME (BOX/UNIT/SYSTEM)		
BOD BOTTOM OF DUCT	FSD FIRE SMOKE DAMPER	OSA OUTSIDE AIR	VD VOLUME DAMPER		
BOP BOTTOM OF PIPE	FT FOOT OR FEET	OZ OUNCE	VEL VELOCITY		
BTU BRITISH THERMAL UNIT	FT WG FEET WATER GAUGE		VENT VENTILATION		
BTUH BTU PER HOUR	FV FACE VELOCITY	PD PRESSURE DROP/ DIFFERENCE	VERT VERTICAL		
		PH PHASE	VFD VARIABLE FREQUENCY DRIVE		
CB CATCH BASIN	GA GAUGE	PLUMB PLUMBING	VOL VOLUME		
CFH CUBIC FEET PER HOUR	GAL GALLON(S)	POC POINT OF CONNECTION	VTR VENT THROUGH ROOF		
CFM CUBIC FEET PER MINUTE	GALV GALVANIZED	PPM PARTS PER MILLION	VVT VARIABLE VOLUME AND TEMPERATURE (BOX/SYSTEM)		
CI CAST IRON	GPH GALLONS PER HOUR	PRV PRESSURE REDUCING VALVE			
CMPR COMPRESSOR	GPM GALLONS PER MINUTE	PSI POUNDS PER SQUARE INCH	W/ WITH		
CO CLEAN OUT		PSIA PSI, ABSOLUTE	W WASTE / WATT		
COG CO TO GRADE	HD HEAD / HUB DRAIN	PSIG PSI, GAUGE	WB WET BULB		
CONC CONCRETE	HG MERCURY	P&T PRESSURE & TEMPERATURE RELIEF VALVE	WCO WALL CLEAN OUT		
COND CONDENS - (ER, ING, ATE)	HGT HEIGHT		WHA WATER HAMMER ARRESTER		
CONT CONTINU - (E, ED, OUS, ATION)	HOR HORIZONTAL	(R) RELOCATE(D)	WPD WATER PRESSURE DROP		
CSP CONCRETE SOIL PIPE	HP HEAT PUMP / HORSEPOWER	R RADIUS	WT WEIGHT		
CU COPPER	HR HOUR	RA RETURN (AIR)	WTR WATER		
CU FT CUBIC FEET	HTG HEATING	RD ROOF DRAIN			
	HVAC HEATING, VENTILATING, AIR CONDITIONING	RECIRC RECIRCULAT - (E, ING, OR)	Y WYE		
(D) DEMO		RECT RECTANGULAR			
DB DECIBEL / DRY BULB	HZ HERTZ (FREQUENCY)	REQ REQUIRED	Z ZONE		
DDC DIRECT DIGITAL CONTROL(S)		RH RELATIVE HUMIDITY	ZD ZONE DAMPER		
DEG DEGREE	ID INSIDE DIAMETER	RND ROUND			
DEMO DEMOLISH(ED)	IE INVERT ELEVATION	RPBP REDUCED PRESSURE BACKFLOW PREVENTER			
DIA DIAMETER	IN INCHES)	RPM REVOLUTIONS PER MINUTE	/ AND / OR		
DIFF DIFFERENCE / DIFFUSER	IN HG INCH MERCURY GAUGE	RTU ROOFTOP AIR HANDLING UNIT	℄ CENTER LINE		
DN DOWN	IN WG INCH WATER GAUGE		ø DIAMETER / PHASE		
DP DEW POINT	IPS IRON PIPE SIZE	SA SUPPLY (AIR)	# NUMBER / POUNDS		
DS DOWNSPOUT	KW KILOWATT	SAT SATURATION			
DSD DUCT SMOKE DETECTOR	KWH KILOWATT-HOUR	SCFM CFM, STANDARD CONDITIONS			
		SD SMOKE DAMPER / STORM DRAIN			
(E) EXISTING	LAT LEAVING AIR TEMPERATURE	SEC SECOND			
EA EACH	LBS POUNDS	SF SQUARE FEET			
EAT ENTERING AIR TEMPERATURE	LF LINEAR FEET	SH SENSIBLE HEAT			
EFF EFFICIENCY	LG LENGTH	SHR SENSIBLE HEAT RATIO			

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DESCRIPTION	REV	DATE

ADDITIONS AND MODERNIZATIONS TO PE ELL ELEMENTARY, MIDDLE AND HIGH SCHOOLS

PE ELL SCHOOL DISTRICT NO. 301

PE ELL, WASHINGTON

SEAL: RICHARD DUSZA — STATE OF WASHINGTON — 29373 — REGISTERED PROFESSIONAL ENGINEER

EXPIRES 5-13-07

JOB NUMBER: 2006.004

SHEET NUMBER: **T0.01**

CONTENTS: MECHANICAL LEGEND

DATE: 09/29/06

BID SET

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MECHANICAL AND ELECTRICAL SYSTEMS

GENERAL NOTES:

A. CONTRACTOR SHALL VISIT SITE AND BECOME THOROUGHLY FAMILIAR WITH THE EXISTING CONDITIONS PRIOR TO BIDDING.

B. EXISTING UTILITIES AS SHOWN ON THE PLANS ARE A BEST EFFORT COMPILATION OF A UTILITIES LOCATE AND RECORD DRAWINGS. THE CONTRACTOR SHALL VERIFY LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.

C. INFORMATION PERTAINING TO EXISTING HVAC EQUIPMENT AND PLUMBING PIPING, FIXTURES, ITEMS, ETC, SHOWN ON THIS DRAWINGS HAS BEEN TAKEN FROM VARIOUS RECORD DRAWINGS WITH LIMITED INVESTIGATION. NOT ALL INFORMATION HAS BEEN VERIFIED AT THE SITE. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS RELATIVE TO SCOPE OF WORK. SOME CONCEALED PIPING AND OTHER ITEMS HAVE BEEN SHOWN IN AN ASSUMED LOCATION, BUT NOT VERIFIED. CONTRACTOR SHALL VERIFY.

D. EXISTING PIPING ENCOUNTERED DURING CONSTRUCTION WHICH ARE NO LONGER REQUIRED SHALL BE REMOVED AND BE DISPOSED OF AS SPECIFIED. CAP PIPING IN A CONCEALED LOCATION AND AS CLOSE TO SERVING MAIN AS POSSIBLE TO LIMIT CAPPED DEAD END RUNS TO 2'-0" MAXIMUM FOR ALL SERVICES, EXCEPT AS NOTED.

E. REMOVE EXISTING FIXTURES, EQUIPMENT AND RELATED PIPING FITTINGS AND APPURTENANCES WHERE INDICATED AND AS REQUIRED. CAP SERVICE PIPING IN A CONCEALED LOCATION. EXISTING MECHANICAL EQUIPMENT, PLUMBING FIXTURES AND APPURTENANCES WHICH ARE REMOVED AND NOT RELOCATED OR REINSTALLED SHALL BE DISPOSED OF AS SPECIFIED.

F. CUT AND PATCH (E) WALL, ROOF, FLOOR, ETC. SURFACES TO MATCH (E) OR (N) ARCHITECTURAL FINISHES: AS APPLICABLE, FOR ALL ITEMS REMOVED. STRUCTURAL MEMBERS SHALL NOT BE CUT OR PENETRATED UNLESS FIRST APPROVED BY THE PROJECT MANAGER.

G. MECHANICAL CONTRACTOR SHALL VERIFY EXTENT OF EQUIPMENT TO BE DEMO'D WITH GENERAL CONTRACTOR PRIOR TO REMOVAL. REMOVE ALL PLUMBING FIXTURES, EQUIPMENT, AND APPURTENANCES IN PROJECT AREA WHETHER OR NOT SHOWN.

H. INFORMATION PERTAINING TO EXISTING PLUMBING FIXTURES, EQUIPMENT AND PIPING ETC., SHOWN ON THESE DRAWINGS HAVE BEEN TAKEN FROM VARIOUS RECORD DRAWINGS AND SOME INVESTIGATION, BUT NOT ALL INFORMATION HAS BEEN VERIFIED AT THE SITE. VERIFY ALL EXISTING CONDITIONS RELATIVE TO SCOPE OF WORK. SOME CONCEALED PIPING AND OTHER ITEMS HAVE BEEN SHOWN IN AN ASSUMED LOCATION, BUT NOT VERIFIED. CONTRACTOR SHALL VERIFY.

I. PRIOR TO INSTALLATION OF ANY NEW PIPING, EXPOSE POINTS OF CONNECTION AND VERIFY EXACT SIZE, LOCATION, ELEVATION AND TYPE OF MATERIAL AND THAT THE ELEVATION FOR DRAINAGE PIPING IS LOW ENOUGH TO ACHIEVE REQUIRED SLOPE BEFORE NEW PIPING IS CONNECTED. IF NOT, NOTIFY THE ARCHITECT/ENGINEER AND DO NOT PROCEED WITH INSTALLATION UNTIL INSTRUCTED TO DO SO.

J. PRIOR TO DISCONNECTING, REMOVAL OR CAPPING OF EXISTING PIPING, VERIFY IT DOES NOT SERVE EXISTING FIXTURES OR EQUIPMENT WHICH ARE TO REMAIN. IF IT DOES, LEAVE SYSTEM INTACT OR CONNECT TO CLOSEST NEW SERVICES. RECORD ON AS-BUILT DRAWINGS.

K. COORDINATE ALL SHUT DOWNS WITH BUILDING OWNER PRIOR TO WORK.

L. CONTRACTOR SHALL PROVIDE FULL SIZE CW AND HW PIPING TO EACH PLUMBING FIXTURE, SEE SCHEDULE.

M. PROVIDE SEISMIC RESTRAINT BRACING OF ALL PIPING SYSTEMS AND PLUMBING EQUIPMENT PER SPECIFICATION.

N. THE ROUTING OF ALL PIPING IS DIAGRAMMATIC AND DOES NOT SHOW EVERY OFFSET. CONTRACTOR SHALL COORDINATE WITH HVAC AND ALL OTHER TRADES.

O. PROVIDE ISOLATION VALVES ON ALL BRANCH PIPING, TYPICAL. PROVIDE VALVES IN ACCESSIBLE LOCATIONS, AND ACCESS PANELS REQUIRED FOR HARD CEILINGS, COORDINATE EXACT LOCATION AND TYPE WITH OTHER TRADES.

P. INVERT ELEVATIONS BASED ON FINISHED FLOOR (FIN FLR) ELEVATION SHOWN ON PLAN.

Q. COORDINATE LOCATION OF ALL BELOW-GRADE PIPING PENETRATIONS through FOUNDATION AND FLOOR.

R. SEAL ALL PIPING PENETRATIONS THROUGH FLOOR AND WALLS WATER TIGHT, COORDINATE LOCATIONS WITH GENERAL CONTRACTOR AND OTHER TRADES.

S. CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWING FOR EXACT LOCATION OF FLOOR DRAINS, ROOF DRAINS AND OVERFLOW NOZZLES PRIOR TO ROUGH IN.

T. PROVIDE DIELECTRIC COUPLINGS FOR ALL DISSIMILAR METAL PIPING CONNECTIONS, TYPICAL.

U. CONTRACTOR SHALL EXTEND ALL STORM & SANITARY WASTE PIPING TO A MINIMUM OF 5'-0"

V. CONTRACTOR SHALL COORDINATE ALL WASTE & STORM DRAIN PIPING NEAR/THRU FOOTINGS WITH STRUCTURAL ENGINEER AND GENERAL CONTRACTOR.

W. CONTRACTOR SHALL PROVIDE FIRE RATED SLEEVES ON PENETRATIONS through OCCUPANCY SEPARATIONS.

X. CONTRACTOR SHALL REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT DOWNSPOUT LOCATIONS. VERIFY EXACT PLACEMENT PRIOR TO ROUTING STORM DRAIN PIPING UP TO DS CONNECTION.

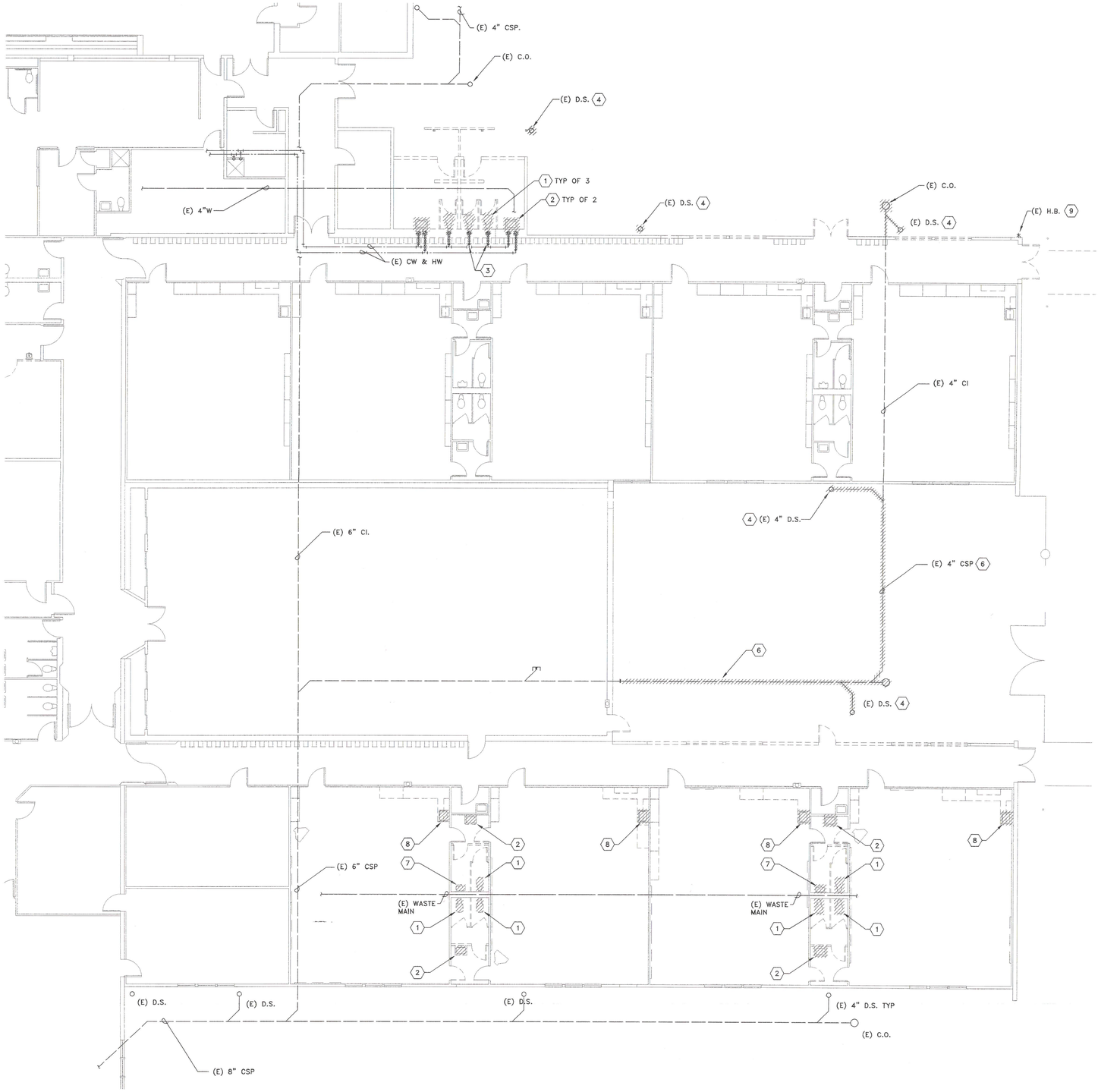
Y. THE FIRE SPRINKLER CONTRACTOR SHALL COORDINATE AND PROVIDE FOR THE LOCATION OF ALL FIRE SPRINKLER DRAIN PIPING AND DRAIN RECEPTOR PIPING, WHETHER OR NOT INDICATED ON THE CONTRACT DOCUMENTS. THE ROUTING OF LOW POINT DRAINS TO ANY LOCATION WHERE THERE IS NO DRAIN RECEPTOR IS NOT ACCEPTABLE.

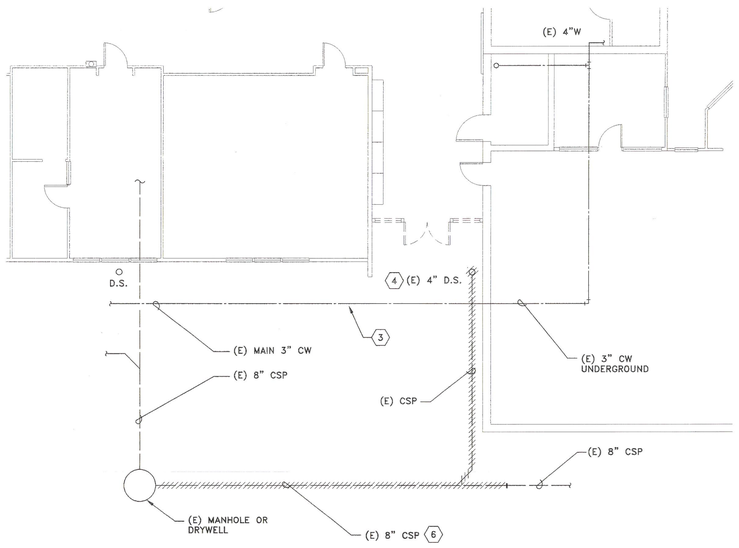
Z. PROVIDE CLEANOUTS ON ALL WASTE PIPING ON BENDS OR GREATER THAN 135°, ON ALL FIXTURES MORE THAN 5 FT. FROM WASTE MAIN, WITHIN 100 FT. LENGTH OF WASTE PIPING, AND WHERE REQUIRED BY LOCAL JURISDICTION, WHETHER OR NOT SHOWN.

AA. PLUMBING CONTRACTOR SHALL PROVIDE TRAP PRIMERS FOR ALL FLOOR DRAINS AND FLOOR SINKS.

KEYED NOTES:

1. REMOVE (E) WATER CLOSET AND ALL CONNNECTED WASTE, VENT & CW PIPING. CAP (E) WASTE PIPING BELOW GRADE.
2. REMOVE (E) LAVATORY, FAUCET AND ALL CONNECTED WASTE, VENT, CW & HW PIPING. CAP (E) WASTE PIPING BELOW GRADE.
3. REMOVE (E) CW & HW PIPING AS INDICATED AND CAP.
4. REMOVE (E) DOWNSPOUT CONNECTION.
5. REMOVE (E) STORM DRAIN PIPING BELOW GRADE.
6. REMOVE (E) CONCRETE SEWER PIPING & REPLACE WITH CAST IRON PIPING UNDER SLAB. SEE SHEET P2.01.
7. REMOVE (E) URINAL AND ALL CONNECTED WASTE, VENT & CW PIPING. CAP (E) WASTE PIPING BELOW GRADE.
8. REMOVE (E) CLASSROOM SINK, FAUCET & BUBBLER AND PREPARE PLUMBING PIPING FOR RECONNECTION.





2 PLUMBING DEMOLITION PLAN – ENTRY – ALT #1
1/8" = 1'-0"

NORTH

1 PLUMBING DEMOLITION PLAN – CLASSROOMS
1/8" = 1'-0"

NORTH

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DESCRIPTION	REV	DATE

ADDITIONS AND MODERNIZATIONS TO PE ELL ELEMENTARY, MIDDLE AND HIGH SCHOOLS

PE ELL SCHOOL DISTRICT NO. 301
PE ELL, WASHINGTON

SEAL:



EXPIRES 5-13-07

JOB NUMBER: 2006.004

SHEET NUMBER: **PD2.01**

CONTENTS: PLUMBING DEMO PLAN

DATE: 09/29/06

BID SET

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MECHANICAL AND ELECTRICAL SYSTEMS

GENERAL NOTES:

A. BECAUSE OF SCALE OF THE DRAWING, IT IS NOT POSSIBLE TO INDICATE ALL DUCT RUNS, OFFSETS, FITTINGS, VALVES AND ACCESSORIES WHICH MAY BE REQUIRED. CAREFULLY INVESTIGATE CONDITIONS SURROUNDING INSTALLATION TO PROVIDE CODE REQUIRED AND MANUFACTURER'S CLEARANCES. ALL WORK SHOWN INS DIAGRAMMATIC AND SHALL BE ROUTED TO FIT WITHIN STRUCTURE. COORDINATE WITH ALL TRADES.

B. FOR TYPICAL CONNECTIONS TO CEILING SUPPLY AIR DIFFUSERS AND RETURN AIR GRILLES, SEE DETAILS.

C. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR CEILING TYPES, GRID AND LIGHTS FOR COORDINATION.

D. PROVIDE MAXIMUM MAINTENANCE ACCESS POSSIBLE AT ALL EQUIPMENT. PROVIDE MINIMUM THREE FEET CLEARANCE AT ALL ELECTRICAL PANELS, COMPRESSOR, FAN ACCESS POINTS AND ALL OTHER ACCESS REQUIRED PER MANUFACTURER'S INSTRUCTIONS.

E. COORDINATE WITH STRUCTURAL TRADES AND FIELD VERIFY STRUCTURAL CONDITIONS PRIOR TO INSTALLATION OF MECHANICAL SYSTEMS. UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS NO PIPE OR DUCT SHALL PENETRATE ANY BEAM, JOIST, OR OTHER STRUCTURALLY SUPPORTIVE ELEMENT.

F. INSTALL VALVES, REGULATORS, DAMPERS AND ALL OTHER SUCH DEVICES REQUIRING ACCESS OR ADJUSTMENT IN PLAIN VIEW AND WITHIN REASONABLE REACH FROM LADDERS, PLATFORMS, CATWALKS AND ACCESS DOORS.

G. ALL DUCT BRANCHES TO DIFFUSERS, GRILLES AND REGISTERS SHALL BE NECK SIZE UNLESS OTHERWISE INDICATED.

H. PROVIDE MINIMUM 10 FEET CLEARANCE BETWEEN OSA INTAKES AND ALL PLUMBING VENTS, ROOF EXHAUSTS.

I. INFORMATION PERTAINING TO EXISTING HVAC EQUIPMENT AND DUCTWORK SHOWN ON THESE DRAWINGS HAS BEEN TAKEN FROM VARIOUS RECORD DRAWINGS AND SOME INVESTIGATION, BUT NOT, ALL INFORMATION HAS BEEN VERIFIED AT THE SITE. VERIFY ALL CONCEALED CONDITIONS RELATIVE T SCOPE OF WORK. SOME CONCEALED DUCT, PIPING AND OTHER ITEMS HAVE BEEN SHOWN IN AN ASSUMED LOCATION, BUT NOT VERIFIED. CONTRACTOR SHALL VERIFY.

J. EXISTING DUCTS AND PIPING ENCOUNTERED DURING CONSTRUCTION WHICH ARE NO LONGER REQUIRED, SHALL BE REMOVED AND BE DISPOSED OF AS SPECIFIED.

K. ALL DEVIATION FROM CONTRACT DRAWINGS SHALL BE RECORDED ON A REPRODUCIBLE AS-BUILT DRAWING.

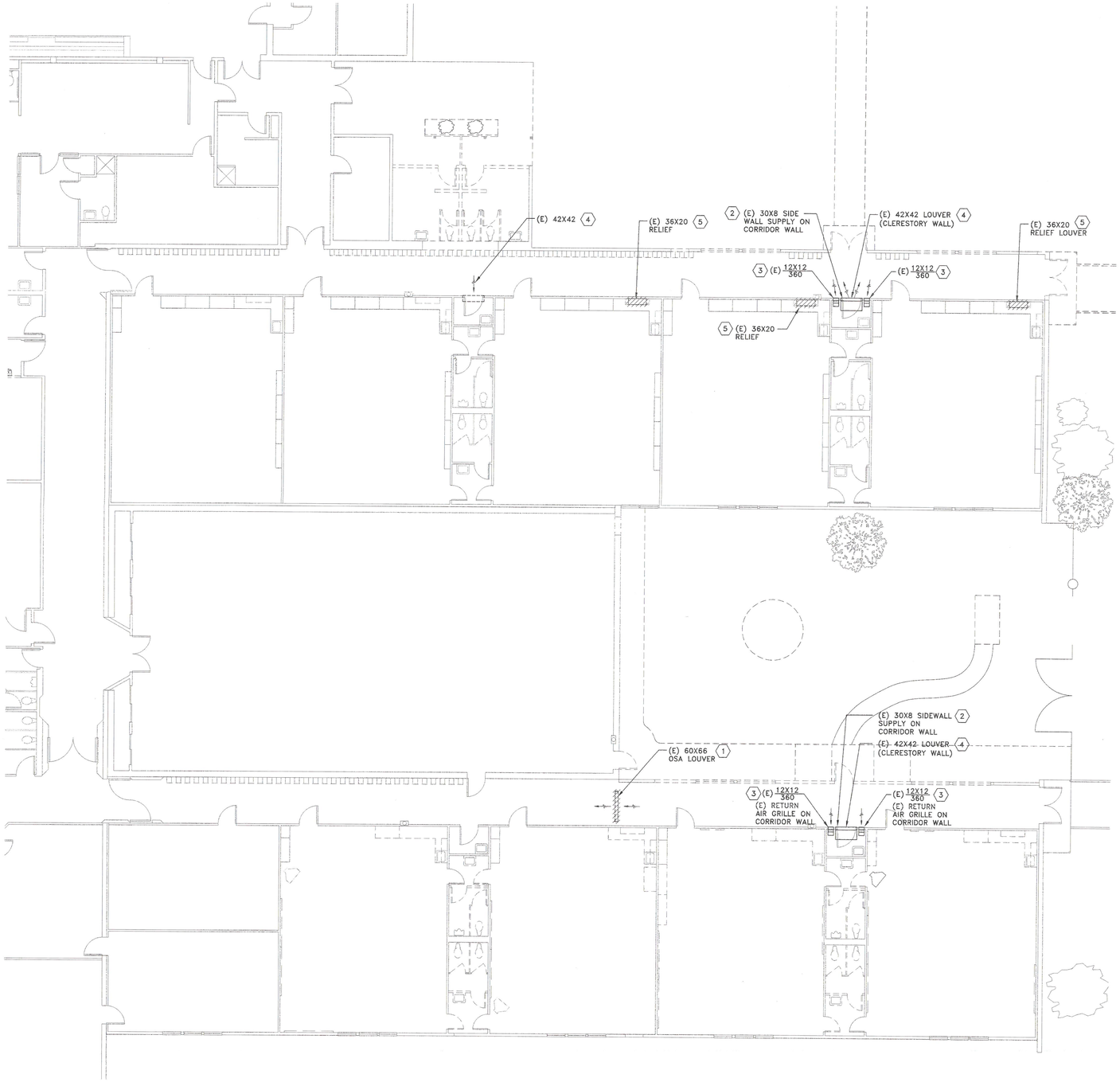
L. ALL DUCTWORK TO BE SHEET METAL ONLY WITH EXTERNAL INSULATION WRAP. NO INTERNAL INSULATION AND NO DUCTBOARD ALLOWED.

M. CONTRACTOR SHALL COORDINATE ALL SHUT DOWNS WITH BUILDING OWNER PRIOR TO WORK.

N. ALL OUTDOOR HEAT PUMP UNITS SHALL MAINTAIN 36" CLEARANCE IN FRONT OF THE DISCONNECT.

KEYED NOTES: ⬡

1. REMOVE (E) 60X66 OSA INTAKE LOUVER.
2. (E) 30X8 SIDEWALL SUPPLY GRILLE SERVING CORRIDOR TO REMAIN.
3. (E) 12X12 SIDEWALL RETURN GRILLE SERVING CORRIDOR TO REMAIN.
4. REMOVE (E) 42X42 LOUVER ON CLERESTORY WALL.
5. REMOVE (E) 36X20 RELIEF LOUVER.



1 HVAC DEMOLITION PLAN – CLASSROOMS
1/8" = 1'-0"

NORTH

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DESCRIPTION	REV	DATE

ADDITIONS AND MODERNIZATIONS TO PE ELL ELEMENTARY, MIDDLE AND HIGH SCHOOLS

PE ELL SCHOOL DISTRICT NO. 301
PE ELL, WASHINGTON

SEAL:
RICHARD DUSA JR. STATE OF WASHINGTON 29373 REGISTERED PROFESSIONAL ENGINEER
EXPIRES 5-13-07

JOB NUMBER: 2006.004

SHEET NUMBER: **MD2.01**

CONTENTS: HVAC DEMO PLAN

DATE: 09/29/06

BID SET

8915 SW MACADAM AVE.
SUITE 200
PORTLAND, OREGON 97219
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CONTACT: RICK DUSA
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MKE & ASSOCIATES, INC.
CONSULTING ENGINEERS
MECHANICAL AND ELECTRICAL SYSTEMS

GENERAL NOTES:

A. BECAUSE OF SCALE OF THE DRAWING, IT IS NOT POSSIBLE TO INDICATE ALL DUCT RUNS, OFFSETS, FITTINGS, VALVES AND ACCESSORIES WHICH MAY BE REQUIRED. CAREFULLY INVESTIGATE CONDITIONS SURROUNDING INSTALLATION TO PROVIDE CODE REQUIRED AND MANUFACTURER'S CLEARANCES. ALL WORK SHOWN INS DIAGRAMMATIC AND SHALL BE ROUTED TO FIT WITHIN STRUCTURE. COORDINATE WITH ALL TRADES.

B. FOR TYPICAL CONNECTIONS TO CEILING SUPPLY AIR DIFFUSERS AND RETURN AIR GRILLES, SEE DETAILS.

C. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR CEILING TYPES, GRID AND LIGHTS FOR COORDINATION.

D. PROVIDE MAXIMUM MAINTENANCE ACCESS POSSIBLE AT ALL EQUIPMENT. PROVIDE MINIMUM THREE FEET CLEARANCE AT ALL ELECTRICAL PANELS, COMPRESSOR, FAN ACCESS POINTS AND ALL OTHER ACCESS REQUIRED PER MANUFACTURER'S INSTRUCTIONS.

E. COORDINATE WITH STRUCTURAL TRADES AND FIELD VERIFY STRUCTURAL CONDITIONS PRIOR TO INSTALLATION OF MECHANICAL SYSTEMS. UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS NO PIPE OR DUCT SHALL PENETRATE ANY BEAM, JOIST, OR OTHER STRUCTURALLY SUPPORTIVE ELEMENT.

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G. ALL DUCT BRANCHES TO DIFFUSERS, GRILLES AND REGISTERS SHALL BE NECK SIZE UNLESS OTHERWISE INDICATED.

H. PROVIDE MINIMUM 10 FEET CLEARANCE BETWEEN OSA INTAKES AND ALL PLUMBING VENTS, ROOF EXHAUSTS.

I. INFORMATION PERTAINING TO EXISTING HVAC EQUIPMENT AND DUCTWORK SHOWN ON THESE DRAWINGS HAS BEEN TAKEN FROM VARIOUS RECORD DRAWINGS AND SOME INVESTIGATION, BUT NOT, ALL INFORMATION HAS BEEN VERIFIED AT THE SITE. VERIFY ALL CONCEALED CONDITIONS RELATIVE T SCOPE OF WORK. SOME CONCEALED DUCT, PIPING AND OTHER ITEMS HAVE BEEN SHOWN IN AN ASSUMED LOCATION, BUT NOT VERIFIED. CONTRACTOR SHALL VERIFY.

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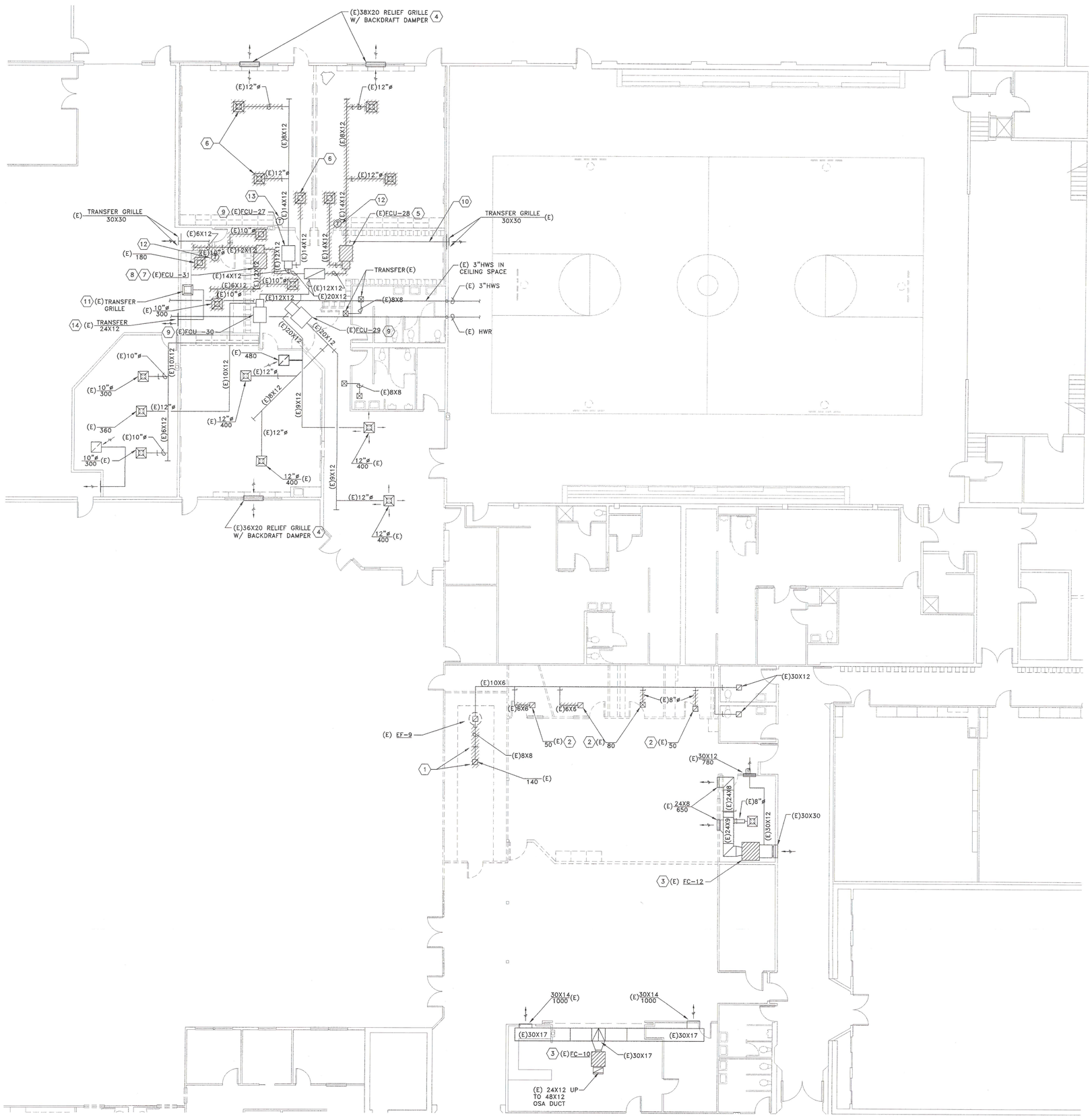
L. ALL DUCTWORK TO BE SHEET METAL ONLY WITH EXTERNAL INSULATION WRAP. NO INTERNAL INSULATION AND NO DUCTBOARD ALLOWED.

M. CONTRACTOR SHALL COORDINATE ALL SHUT DOWNS WITH BUILDING OWNER PRIOR TO WORK.

N. ALL OUTDOOR HEAT PUMP UNITS SHALL MAINTAIN 36" CLEARANCE IN FRONT OF THE DISCONNECT.

KEYED NOTES: ⬡

1. REMOVE (E) DUCTWORK AND EXHAUST GRILLE. CAP DUCT AT MAIN.
2. SALVAGE (E) EXHAUST GRILLE FOR REUSE.
3. EXISTING FAN COIL UNIT IN CEILING SPACE TO REMAIN.
4. RELIEF GRILLE WITH BACKDRAFT DAMPER TO REMAIN.
5. REMOVE (E) FCU-28 UNIT AND ASSOCIATED DUCTWORK, GRILLES AND DIFFUSERS. DISCONNECT AND REMOVE HYDRONIC PIPING AND ASSOCIATED VALVING TO UNIT.
6. REMOVE (E) DIFFUSER OR GRILLE AND DUCT AS INDICATED.
7. REMOVE (E) FCU-31 AND ASSOCIATED DUCTWORK, GRILLES AND DIFFUSERS. DISCONNECT AND REMOVE HYDRONIC PIPING AND ASSOCIATED VALVING TO UNIT.
8. DISCONNECT AND REMOVE (E) MATCHING CONDENSING UNIT CU-2 ON ROOF.
9. (E) FAN COIL UNIT SYSTEM AND ASSOCIATED DUCT, DIFFUSERS AND GRILLES TO REMAIN.
10. (E) AIR TRANSFER DUCT TO REMAIN.
11. SALVAGE (E) TRANSFER GRILLE AND DUCT. RELOCATE TO NEW LOCATION AS INDICATED ON NEW PLAN.
12. CONTRACTOR TO VERIFY (E) THERMOSTAT LOCATION. REMOVE (E) THERMOSTAT.
13. SALVAGE AND RELOCATE (E) THERMOSTAT TO NEW LOCATION AS INDICATED ON NEW PLAN. CONTRACTOR TO VERIFY (E) THERMOSTAT LOCATION.
14. (E) TRANSFER GRILLE AND DUCTWORK TO REMAIN.



1 HVAC DEMOLITION PLAN
1/8" = 1'-0"

NORTH

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DESCRIPTION	REV	DATE

ADDITIONS AND MODERNIZATIONS TO PE ELL ELEMENTARY, MIDDLE AND HIGH SCHOOLS

PE ELL SCHOOL DISTRICT NO. 301
PE ELL, WASHINGTON

SEAL:
RICHARD DUSA JR
STATE OF WASHINGTON
29375
REGISTERED
PROFESSIONAL ENGINEER
EXPIRES 5-13-07

JOB NUMBER: 2006.004

SHEET NUMBER: **MD2.02**

CONTENTS: HVAC DEMO PLAN

DATE: 09/29/06

BID SET

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CONTACT...RICK DUSA
engineering@mke-inc.com

MKE & ASSOCIATES, INC.
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MECHANICAL AND ELECTRICAL SYSTEMS

GENERAL NOTES:

A. THIS DRAWING COVERS THE SCOPE OF WORK FOR REMOVAL OF EXISTING GALVANIZED DOMESTIC COLD WATER, HOTWATER AND HOT WATER RETURN MAINS AND THE INSTALLATION OF NEW COPPER COLD WATER, HOT WATER AND HOT WATER RETURN MAINS.

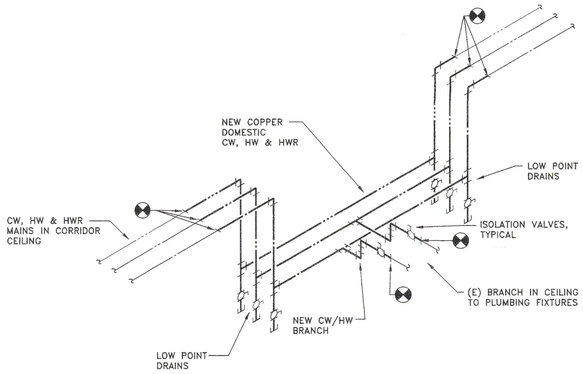
B. ALL DOMESTIC WATER PIPING IS LOCATED IN CEILING SPACE AND MECHANICAL SPACE ABOVE EXISTING CORRIDOR.

C. ALL DOMESTIC WATER PIPING LAYOUT SHOWS GENERAL ROUTING AND SIZES.

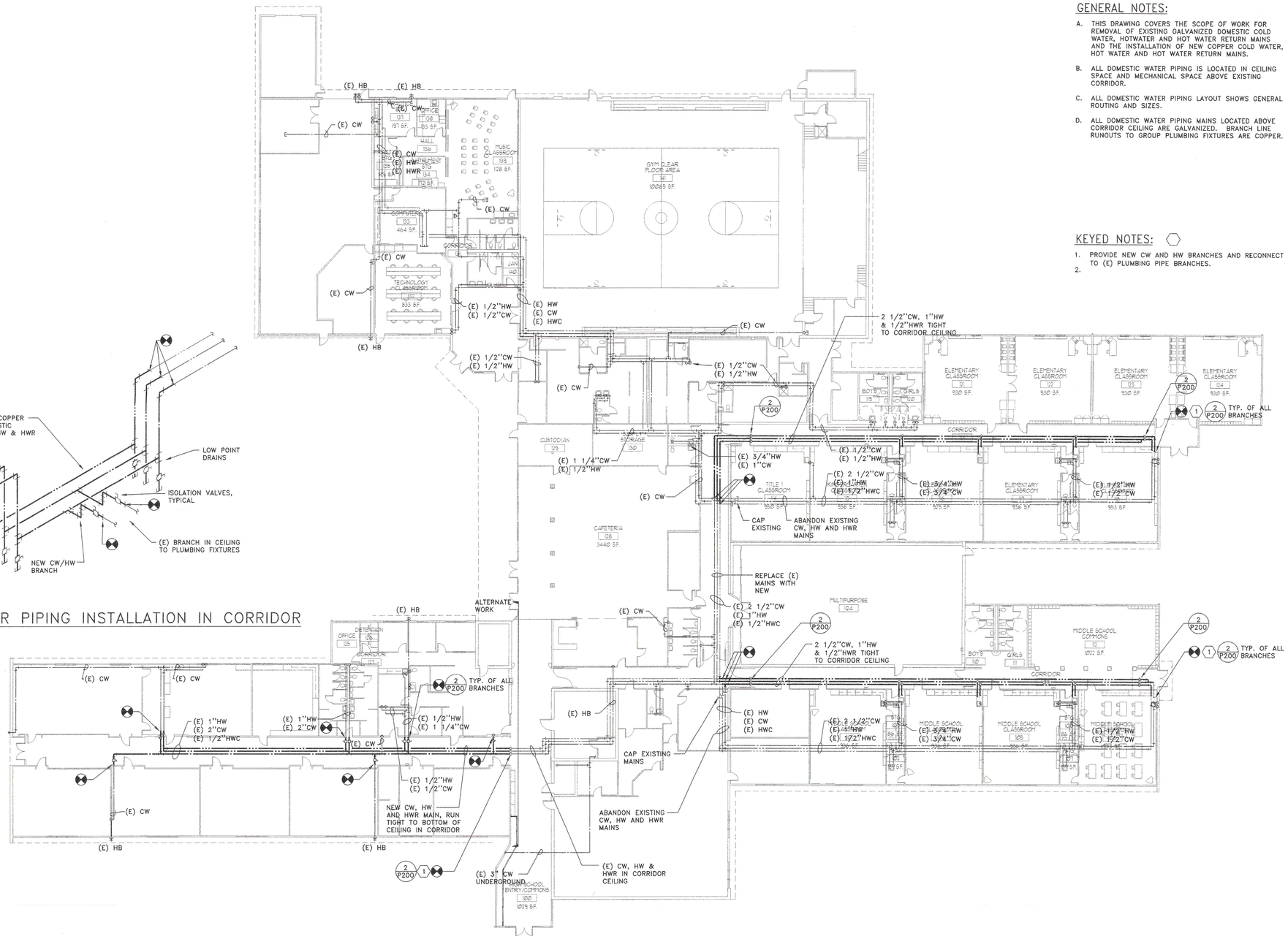
D. ALL DOMESTIC WATER PIPING MAINS LOCATED ABOVE CORRIDOR CEILING ARE GALVANIZED. BRANCH LINE RUNOUTS TO GROUP PLUMBING FIXTURES ARE COPPER.

KEYED NOTES:

1. PROVIDE NEW CW AND HW BRANCHES AND RECONNECT TO (E) PLUMBING PIPE BRANCHES.
2.



2 / P200 DOMESTIC WATER PIPING INSTALLATION IN CORRIDOR
SCALE: NO SCALE



1 PLUMBING FLOOR PLAN – COLD/HOT WATER SYSTEM
1/16" = 1'-0"

NORTH

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DESCRIPTION	REV.	DATE

ADDITIONS AND MODERNIZATIONS TO PE ELL ELEMENTARY, MIDDLE AND HIGH SCHOOLS

PE ELL SCHOOL DISTRICT NO. 301
PE ELL, WASHINGTON

SEAL:
RICHARD DUSA JR
STATE OF WASHINGTON
21673
REGISTERED
PROFESSIONAL ENGINEER
EXPIRES 5-13-07

JOB NUMBER: 2006.004

SHEET NUMBER: **P2.00**

CONTENTS: SITE PLAN – COLD /HOT WATER SYSTEM

DATE: 09/29/06

BID SET

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PORTLAND, OREGON 97219
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engineering@mke-inc.com

MKE & ASSOCIATES, INC.
CONSULTING ENGINEERS
MECHANICAL AND ELECTRICAL SYSTEMS

GENERAL NOTES:

A. CONTRACTOR SHALL VISIT SITE AND BECOME THOROUGHLY FAMILIAR WITH THE EXISTING CONDITIONS PRIOR TO BIDDING.

B. EXISTING UTILITIES AS SHOWN ON THE PLANS ARE A BEST EFFORT COMPILATION OF A UTILITIES LOCATE AND RECORD DRAWINGS. THE CONTRACTOR SHALL VERIFY LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.

C. INFORMATION PERTAINING TO EXISTING HVAC EQUIPMENT AND PLUMBING PIPING, FIXTURES, ITEMS, ETC, SHOWN ON THIS DRAWINGS HAS BEEN TAKEN FROM VARIOUS RECORD DRAWINGS WITH LIMITED INVESTIGATION. NOT ALL INFORMATION HAS BEEN VERIFIED AT THE SITE. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS RELATIVE TO SCOPE OF WORK. SOME CONCEALED PIPING AND OTHER ITEMS HAVE BEEN SHOWN IN AN ASSUMED LOCATION, BUT NOT VERIFIED. CONTRACTOR SHALL VERIFY.

D. EXISTING PIPING ENCOUNTERED DURING CONSTRUCTION WHICH ARE NO LONGER REQUIRED SHALL BE REMOVED AND BE DISPOSED OF AS SPECIFIED. CAP PIPING IN A CONCEALED LOCATION AND AS CLOSE TO SERVING MAIN AS POSSIBLE TO LIMIT CAPPED DEAD END RUNS TO 2'-0" MAXIMUM FOR ALL SERVICES, EXCEPT AS NOTED.

E. REMOVE EXISTING FIXTURES, EQUIPMENT AND RELATED PIPING FITTINGS AND APPURTENANCES WHERE INDICATED AND AS REQUIRED. CAP SERVICE PIPING IN A CONCEALED LOCATION. EXISTING MECHANICAL EQUIPMENT, PLUMBING FIXTURES AND APPURTENANCES WHICH ARE REMOVED AND NOT RELOCATED OR REINSTALLED SHALL BE DISPOSED OF AS SPECIFIED.

F. CUT AND PATCH (E) WALL, ROOF, FLOOR, ETC. SURFACES TO MATCH (E) OR (N) ARCHITECTURAL FINISHES: AS APPLICABLE, FOR ALL ITEMS REMOVED. STRUCTURAL MEMBERS SHALL NOT BE CUT OR PENETRATED UNLESS FIRST APPROVED BY THE PROJECT MANAGER.

G. MECHANICAL CONTRACTOR SHALL VERIFY EXTENT OF EQUIPMENT TO BE DEMO'D WITH GENERAL CONTRACTOR PRIOR TO REMOVAL. REMOVE ALL PLUMBING FIXTURES, EQUIPMENT, AND APPURTENANCES IN PROJECT AREA WHETHER OR NOT SHOWN.

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I. PRIOR TO INSTALLATION OF ANY NEW PIPING, EXPOSE POINTS OF CONNECTION AND VERIFY EXACT SIZE, LOCATION, ELEVATION AND TYPE OF MATERIAL AND THAT THE ELEVATION FOR DRAINAGE PIPING IS LOW ENOUGH TO ACHIEVE REQUIRED SLOPE BEFORE NEW PIPING IS CONNECTED. IF NOT, NOTIFY THE ARCHITECT/ENGINEER AND DO NOT PROCEED WITH INSTALLATION UNTIL INSTRUCTED TO DO SO.

J. PRIOR TO DISCONNECTING, REMOVAL OR CAPPING OF EXISTING PIPING, VERIFY IT DOES NOT SERVE EXISTING FIXTURES OR EQUIPMENT WHICH ARE TO REMAIN. IF IT DOES, LEAVE SYSTEM INTACT OR CONNECT TO CLOSEST NEW SERVICES. RECORD ON AS-BUILT DRAWINGS.

K. COORDINATE ALL SHUT DOWNS WITH BUILDING OWNER PRIOR TO WORK.

L. CONTRACTOR SHALL PROVIDE FULL SIZE CW AND HW PIPING TO EACH PLUMBING FIXTURE, SEE SCHEDULE.

M. PROVIDE SEISMIC RESTRAINT BRACING OF ALL PIPING SYSTEMS AND PLUMBING EQUIPMENT PER SPECIFICATION.

N. THE ROUTING OF ALL PIPING IS DIAGRAMMATIC AND DOES NOT SHOW EVERY OFFSET. CONTRACTOR SHALL COORDINATE WITH HVAC AND ALL OTHER TRADES.

O. PROVIDE ISOLATION VALVES ON ALL BRANCH PIPING, TYPICAL. PROVIDE VALVES IN ACCESSIBLE LOCATIONS, AND ACCESS PANELS REQUIRED FOR HARD CEILINGS, COORDINATE EXACT LOCATION AND TYPE WITH OTHER TRADES.

P. INVERT ELEVATIONS BASED ON FINISHED FLOOR (FIN FLR) ELEVATION SHOWN ON PLAN.

Q. COORDINATE LOCATION OF ALL BELOW-GRADE PIPING PENETRATIONS through FOUNDATION AND FLOOR.

R. SEAL ALL PIPING PENETRATIONS THROUGH FLOOR AND WALLS WATER TIGHT, COORDINATE LOCATIONS WITH GENERAL CONTRACTOR AND OTHER TRADES.

S. CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWING FOR EXACT LOCATION OF FLOOR DRAINS, ROOF DRAINS AND OVERFLOW NOZZLES PRIOR TO ROUGH IN.

T. PROVIDE DIELECTRIC COUPLINGS FOR ALL DISSIMILAR METAL PIPING CONNECTIONS, TYPICAL.

U. CONTRACTOR SHALL EXTEND ALL STORM & SANITARY WASTE PIPING TO A MINIMUM OF 5'-0"

V. CONTRACTOR SHALL COORDINATE ALL WASTE & STORM DRAIN PIPING NEAR/THRU FOOTINGS WITH STRUCTURAL ENGINEER AND GENERAL CONTRACTOR.

W. CONTRACTOR SHALL PROVIDE FIRE RATED SLEEVES ON PENETRATIONS THRU OCCUPANCY SEPARATIONS.

X. CONTRACTOR SHALL REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT DOWNSPOUT LOCATIONS. VERIFY EXACT PLACEMENT PRIOR TO ROUTING STORM DRAIN PIPING UP TO DS CONNECTION.

Y. THE FIRE SPRINKLER CONTRACTOR SHALL COORDINATE AND PROVIDE FOR THE LOCATION OF ALL FIRE SPRINKLER DRAIN PIPING AND DRAIN RECEPTOR PIPING, WHETHER OR NOT INDICATED ON THE CONTRACT DOCUMENTS. THE ROUTING OF LOW POINT DRAINS TO ANY LOCATION WHERE THERE IS NO DRAIN RECEPTOR IS NOT ACCEPTABLE.

Z. PROVIDE CLEANOUTS ON ALL WASTE PIPING ON BENDS OR GREATER THAN 135°, ON ALL FIXTURES MORE THAN 5 FT. FROM WASTE MAIN, WITHIN 100 FT. LENGTH OF WASTE PIPING, AND WHERE REQUIRED BY LOCAL JURISDICTION, WHETHER OR NOT SHOWN.

AA. PLUMBING CONTRACTOR SHALL PROVIDE TRAP PRIMERS FOR ALL FLOOR DRAINS AND FLOOR SINKS.

KEYED NOTES: ⬡

1. PROVIDE NEW CAST IRON STORM DRAIN PIPING.
2. PROVIDE NEW INTERIOR CLEANOUT AND INSTALL CLEANOUT FLUSH WITH FINISHED FLOOR.
3. PROVIDE 4"W AND CONNECT TO EXISTING WASTE PIPING. FIELD VERIFY EXISTING WASTE MAIN SIZE AND SLOPE.
4. PROVIDE 2 1/2"CW AND 1"HW HEADERS DOWN IN PLUMBING WALL TO SERVE WASH FOUNTAIN WF-1, HOSE BIBB HB-1 AND ALL BACK TO BACK PLUMBING FIXTURES. PROVIDE CW AND HW BRANCHES PER PLUMBING SCHEDULE.
5. PROVIDE ISOLATION VALVES ON PIPING IN ACCESSIBLE LOCATION AND PROVIDE ACCESS PANELS FOR HARD CEILING. COORDINATE EXACT LOCATION AND TYPE WITH ARCHITECTURAL.
6. PROVIDE 2 1/2"CW AND 1"HW AND 1/2"HWR AND CONNECT TO EXISTING PLUMBING PIPING IN CEILING SPACE.
7. PROVIDE 3/4"CW AND 3/4"HW DOWN ON WALL TO SERVE BACK TO BACK SINK S-1 IN CLASSROOM.
8. PROVIDE 3/4"CW AND 3/4"HW AND CONNECT TO EXISTING PLUMBING PIPING IN CEILING SPACE. FIELD VERIFY EXISTING PLUMBING PIPING SIZE AND LOCATION.
9. PROVIDE 2"CW AND 3/4"HW AND CONNECT TO EXISTING PLUMBING PIPING.
10. PROVIDE 2"CW AND 1"HW HEADERS DOWN IN PLUMBING WALL TO SERVE WASH FOUNTAIN WF-1, HOSE BIBB HB-1 AND ALL BACK TO BACK PLUMBING FIXTURES. PROVIDE CW AND HW BRANCHES PER PLUMBING SCHEDULE.
11. PROVIDE 3"SD PIPING STARTING INVERT ELEVATION AT 20" BELOW GRADE . RUN STORM DRAIN PIPING AT MINIMUM 1/2 % SLOPE, AND CONNECT TO (E) STORM PIPING. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION, SIZE AND DEPTH OF POINT OF CONNECTION.
12. FIELD VERIFY EXACT LOCATION, SIZE AND DEPTH OF POINT OF CONNECTION.
13. RE-INSTALL CLASSROOM SINK AND TRIMMING ON NEW CABINET. RECONNECT (E) WASTE VENT, CW AND HW TO FIXTURES.
14. (E) 3"CW UNDERGROUND SERVING BUILDING TO REMAIL. CONTRACTOR SHALL PROTECT CW MAIN UNDER NEW ENTRY ADDITION.

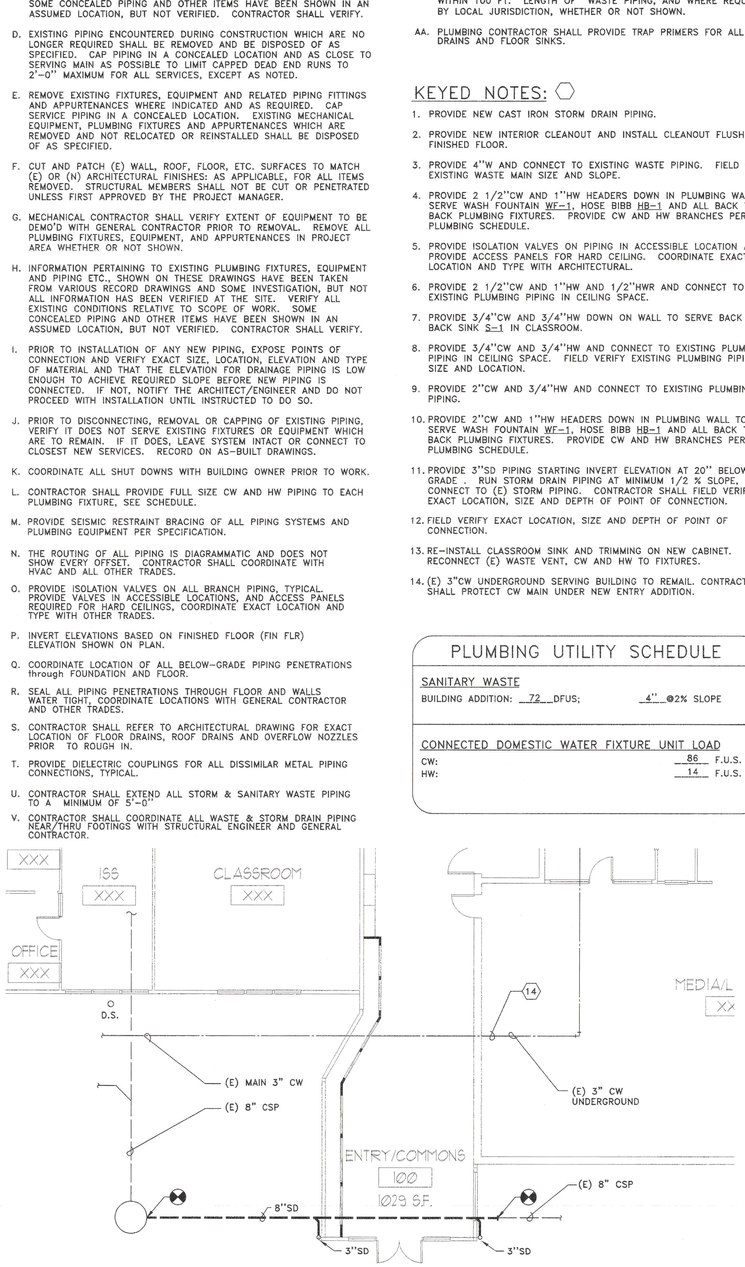
PLUMBING UTILITY SCHEDULE

SANITARY WASTE

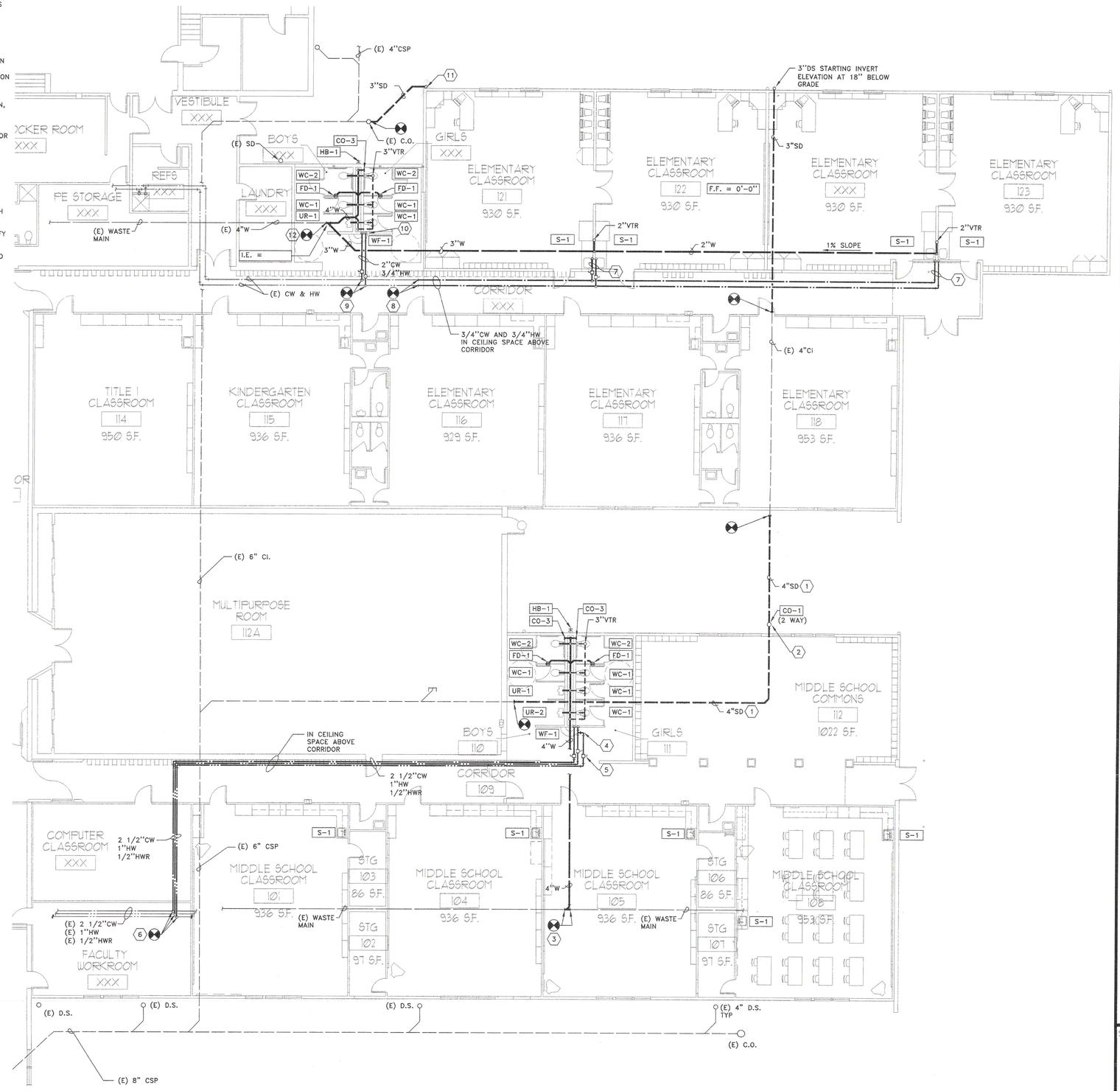
BUILDING ADDITION: 72 DFUS; 4" @2% SLOPE

CONNECTED DOMESTIC WATER FIXTURE UNIT LOAD

CW: 86 F.U.S.
HW: 14 F.U.S.



2 PLUMBING FLOOR PLAN – ENTRY – ALT #1
1/8" = 1'-0"



1 PLUMBING FLOOR PLAN – CLASSROOMS
1/8" = 1'-0"

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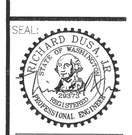
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DESCRIPTION | REV | DATE

ADDITIONS AND MODERNIZATIONS TO PE ELL ELEMENTARY, MIDDLE AND HIGH SCHOOLS

PE ELL SCHOOL DISTRICT NO. 301
PE ELL, WASHINGTON

SEAL:



EXPIRES 5-13-07

JOB NUMBER: 2006.004

SHEET NUMBER: **P2.01**

CONTENTS: PLUMBING FLOOR PLAN

DATE: 09/29/06

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FAX 503.892.1190
CONTACT: RICK DUSA
engineering@mke-inc.com

MKE & ASSOCIATES INC
CONSULTING ENGINEERS
MECHANICAL AND ELECTRICAL SYSTEMS

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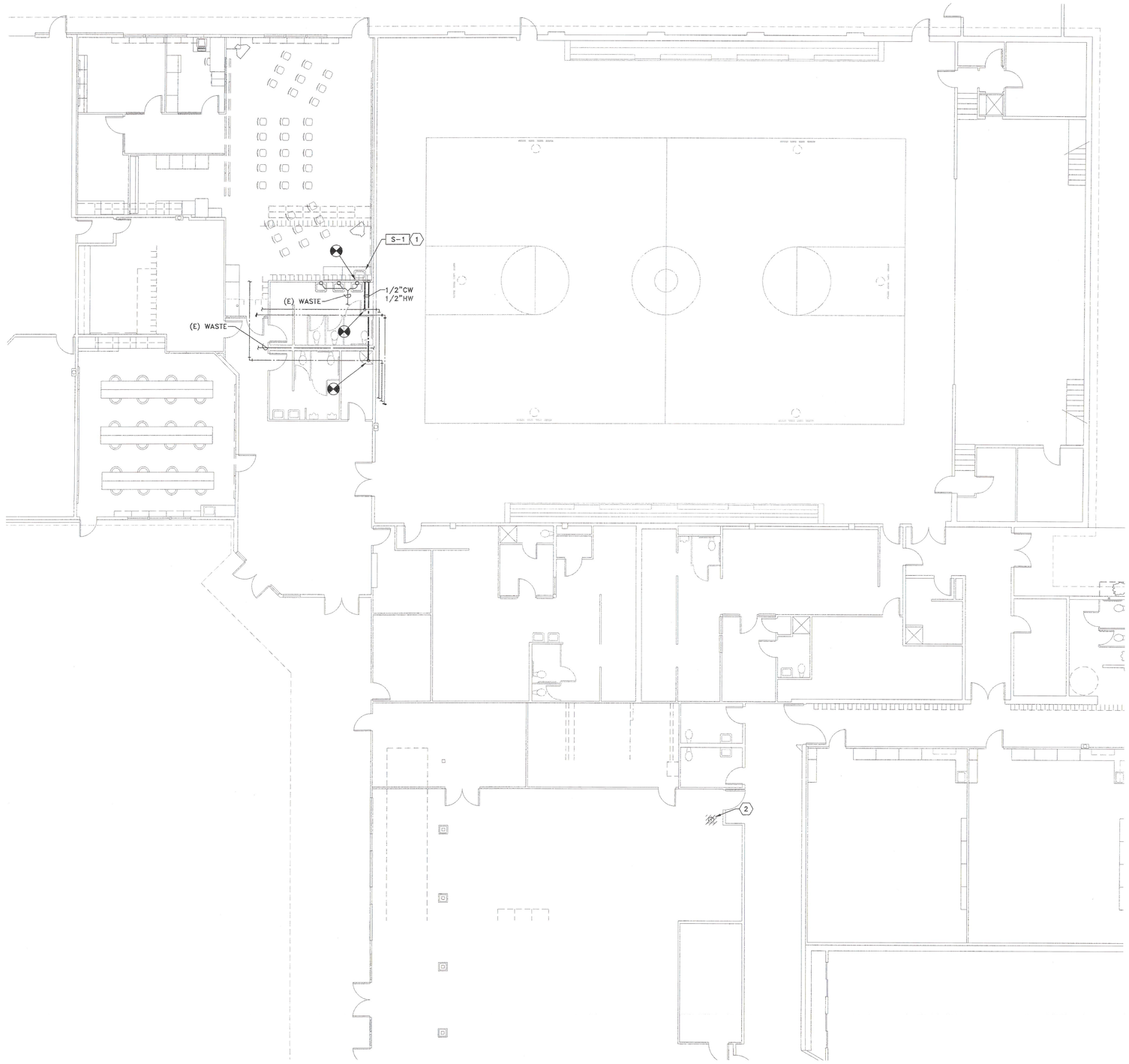
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KEYED NOTES:

1. PROVIDE NEW SINK IN MUSIC CLASSROOM. PROVIDE NEW 2"W AND 1-1/2" TO SINK. CONNECT NEW PLUMBING PIPINGS TO (E) WASTE MAIN AND (E) VENTING SYSTEM #1 ADJCENT GIRLS RESTROOM.

2. DEMO (E) DRINKING FOUNTAIN. CAP WASTE BELOW SLAB AND REMOVE CW BRANCH TO MAIN AND CAP.



1 PLUMBING FLOOR PLAN
1/8" = 1'-0"

NORTH

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DESCRIPTION	REV	DATE

ADDITIONS AND MODERNIZATIONS TO PE ELL ELEMENTARY, MIDDLE AND HIGH SCHOOLS

PE ELL SCHOOL DISTRICT NO. 301
PE ELL, WASHINGTON

SEAL:
RICHARD DIOSA JR
STATE OF WASHINGTON
20012
REGISTERED
PROFESSIONAL ENGINEER
EXPIRES 5-13-07

JOB NUMBER: 2006.004

SHEET NUMBER: **P2.02**

CONTENTS: PLUMBING FLOOR PLAN

DATE: 09/29/06

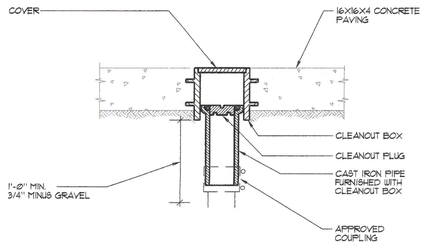
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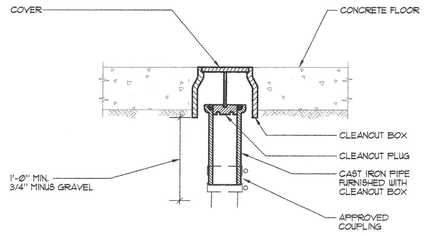
MKE & ASSOCIATES, INC.
CONSULTING ENGINEERS
MECHANICAL AND ELECTRICAL SYSTEMS

PLUMBING CONNECTION SCHEDULE

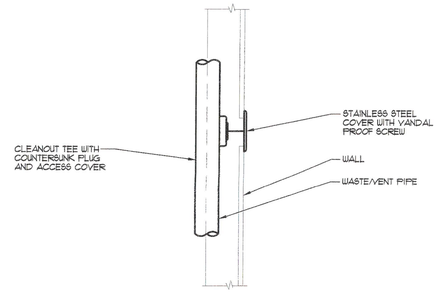
MARK	FIXTURE	W.	V.	C.W	H.W.	REMARKS
WC-1	WATER CLOSET	4	2	1	–	WALL HUNG, FLUSH VALVE
WC-2	WATER CLOSET – ADA	4	2	1	–	WALL HUNG, FLUSH VALVE
UR-1	URINAL	2	2	3/4	–	WALL HUNG, FLUSH VALVE, WASHOUT
S-1	SINK	2	1-1/2	1/2	1/2	1-COMP.
H-1	HOSE BIBB	–	–	3/4	–	
FD-1	FLOOR DRAIN – FINISHED FLOOR		2	–	–	PROVIDE PRIMER
WF-1	WASH FOUNTIAN	2	1 1/2	3/4	3/4	–
CO-1	CLEANOUT – EXTERIOR	–	–	–	–	EXTERIOR CLEANOUT TO GRADE, MAKE LINE SIZE.
CO-2	CLEANOUT – INTERIOR	–	–	–	–	INTERIOR CLEANOUT TO FLOOR, MAKE LINE SIZE.
CO-3	CLEANOUT – WALL	–	–	–	–	WALL CLEANOUT, MAKE LINE SIZE.
UR-2	URINAL – ADA	2	2	3/4	–	WALL HUNG FLUSH VALVE, WASHOUT



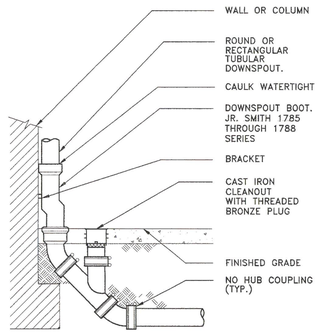
1 / P8.01 DETAIL – EXTERIOR CLEANOUT TO GRADE (CO-1)
SCALE: N.T.S. PD016



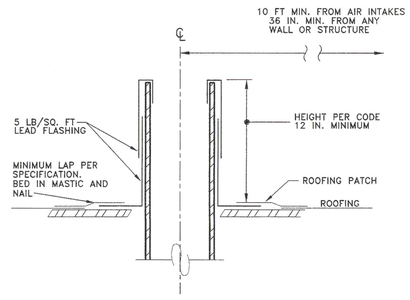
2 / P8.01 DETAIL – INTERIOR CLEANOUT TO FLOOR (CO-2)
SCALE: N.T.S. PD021



3 / P8.01 DETAIL – WALL CLEANOUT (CO-3)
SCALE: N.T.S. PD024



4 / P8.01 DETAIL– DOWNSPOUT BOOT AND CLEANOUT
SCALE: N.T.S. PD092



5 / P8.01 DETAIL – VENT THROUGH ROOF (VTR)
SCALE: N.T.S. PD035

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ADDITIONS AND MODERNIZATIONS TO PE ELL ELEMENTARY, MIDDLE AND HIGH SCHOOLS

PE ELL SCHOOL DISTRICT NO. 301
PE ELL, WASHINGTON

SEAL:
RICHARD DUSA JR. STATE OF WASHINGTON 29373 REGISTERED PROFESSIONAL ENGINEER
EXPIRES 5-13-07

JOB NUMBER: 2006.004

SHEET NUMBER: **P8.01**

CONTENTS: SCHEDULES & DETAILS

DATE: 09/29/06

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engineering@mke-inc.com
MKE & ASSOCIATES, INC.
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MECHANICAL AND ELECTRICAL SYSTEMS

GENERAL NOTES:

A. BECAUSE OF SCALE OF THE DRAWING, IT IS NOT POSSIBLE TO INDICATE ALL DUCT RUNS, OFFSETS, FITTINGS, VALVES AND ACCESSORIES WHICH MAY BE REQUIRED. CAREFULLY INVESTIGATE CONDITIONS SURROUNDING INSTALLATION TO PROVIDE CODE REQUIRED AND MANUFACTURER'S CLEARANCES. ALL WORK SHOWN INS DIAGRAMMATIC AND SHALL BE ROUTED TO FIT WITHIN STRUCTURE. COORDINATE WITH ALL TRADES.

B. FOR TYPICAL CONNECTIONS TO CEILING SUPPLY AIR DIFFUSERS AND RETURN AIR GRILLES, SEE DETAILS.

C. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR CEILING TYPES, GRID AND LIGHTS FOR COORDINATION.

D. PROVIDE MAXIMUM MAINTENANCE ACCESS POSSIBLE AT ALL EQUIPMENT. PROVIDE MINIMUM THREE FEET CLEARANCE AT ALL ELECTRICAL PANELS, COMPRESSOR, FAN ACCESS POINTS AND ALL OTHER ACCESS REQUIRED PER MANUFACTURER'S INSTRUCTIONS.

E. COORDINATE WITH STRUCTURAL TRADES AND FIELD VERIFY STRUCTURAL CONDITIONS PRIOR TO INSTALLATION OF MECHANICAL SYSTEMS. UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS NO PIPE OR DUCT SHALL PENETRATE ANY BEAM, JOIST, OR OTHER STRUCTURALLY SUPPORTIVE ELEMENT.

F. INSTALL VALVES, REGULATORS, DAMPERS AND ALL OTHER SUCH DEVICES REQUIRING ACCESS OR ADJUSTMENT IN PLAIN VIEW AND WITHIN REASONABLE REACH FROM LADDERS, PLATFORMS, CATWALKS AND ACCESS DOORS.

G. ALL DUCT BRANCHES TO DIFFUSERS, GRILLES AND REGISTERS SHALL BE NECK SIZE UNLESS OTHERWISE INDICATED.

H. PROVIDE MINIMUM 10 FEET CLEARANCE BETWEEN OSA INTAKES AND ALL PLUMBING VENTS, ROOF EXHAUSTS.

I. INFORMATION PERTAINING TO EXISTING HVAC EQUIPMENT AND DUCTWORK SHOWN ON THESE DRAWINGS HAS BEEN TAKEN FROM VARIOUS RECORD DRAWINGS AND SOME INVESTIGATION, BUT NOT, ALL INFORMATION HAS BEEN VERIFIED AT THE SITE. VERIFY ALL CONCEALED CONDITIONS RELATIVE T SCOPE OF WORK. SOME CONCEALED DUCT, PIPING AND OTHER ITEMS HAVE BEEN SHOWN IN AN ASSUMED LOCATION, BUT NOT VERIFIED. CONTRACTOR SHALL VERIFY.

J. EXISTING DUCTS AND PIPING ENCOUNTERED DURING CONSTRUCTION WHICH ARE NO LONGER REQUIRED, SHALL BE REMOVED AND BE DISPOSED OF AS SPECIFIED.

K. ALL DEVIATION FROM CONTRACT DRAWINGS SHALL BE RECORDED ON A REPRODUCIBLE AS-BUILT DRAWING.

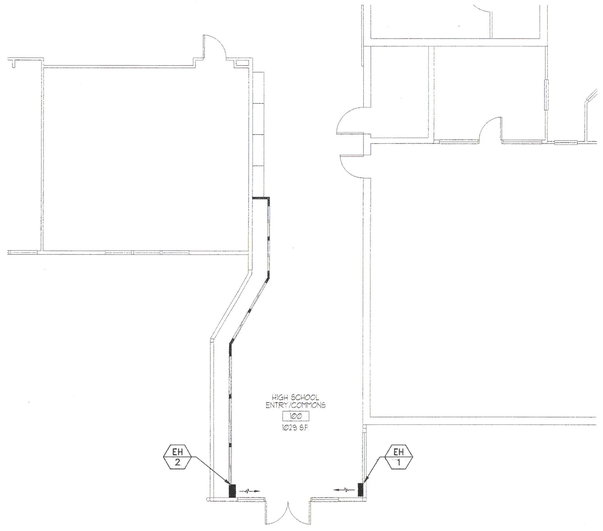
L. ALL DUCTWORK TO BE SHEET METAL ONLY WITH EXTERNAL INSULATION WRAP. NO INTERNAL INSULATION AND NO DUCTBOARD ALLOWED.

M. CONTRACTOR SHALL COORDINATE ALL SHUT DOWNS WITH BUILDING OWNER PRIOR TO WORK.

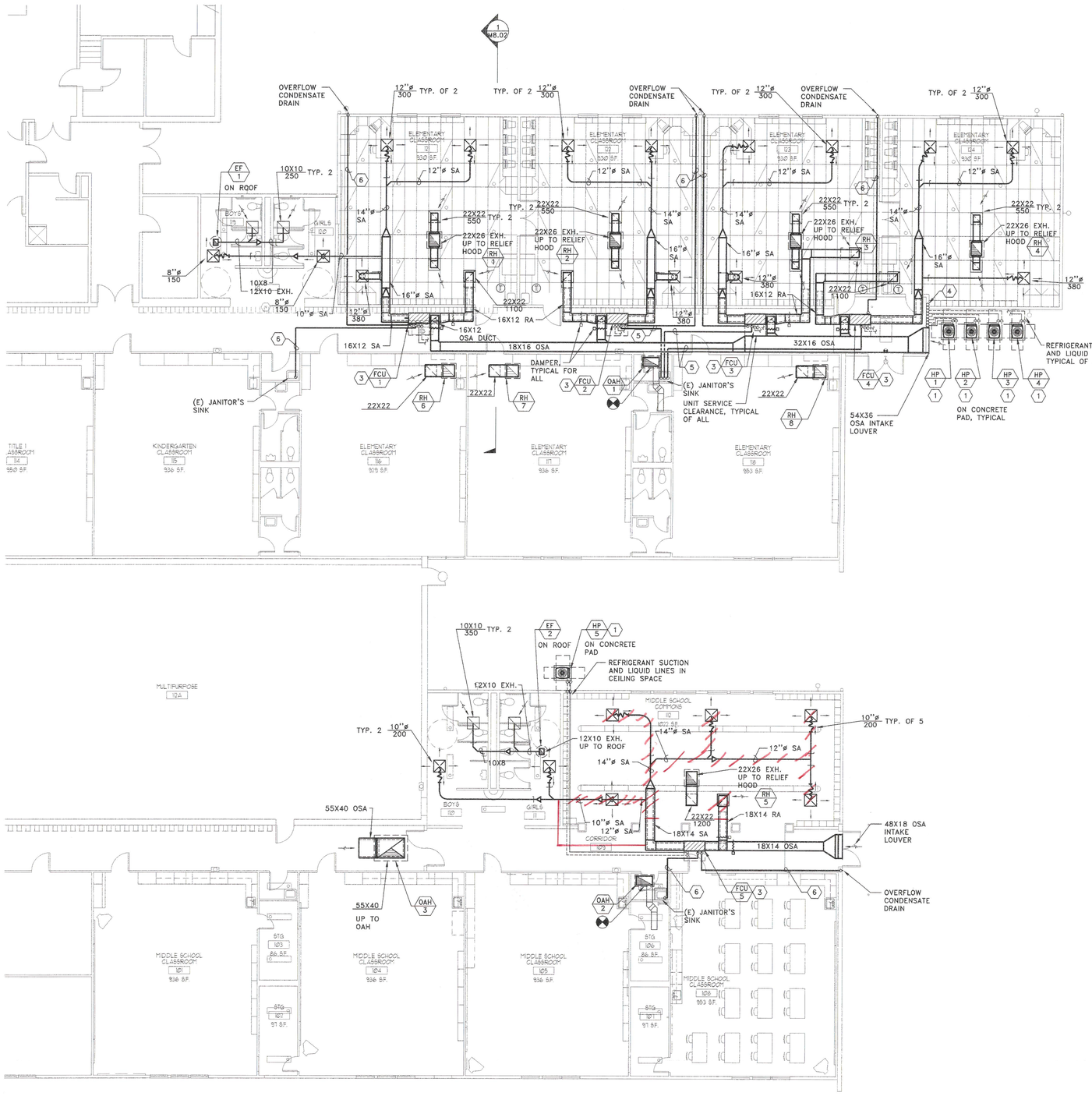
N. ALL OUTDOOR HEAT PUMP UNITS SHALL MAINTAIN 36" CLEARANCE IN FRONT OF THE DISCONNECT.

KEYED NOTES:

1. OUTDOOR HEAT PUMP UNIT WITH SUPPORT LEGS SEISMICALLY ANCHORED ON 4" THICK CONCRETE PAD. PAD DIMENSION SHALL BE MINIMUM 6" BEYOND THE EDGE OF CONDENSING UNIT. VERIFY SIZE WITH MANUFACTURER ACCORDINGLY.
2. RUN REFRIGERANT PIPING ON 4X6 P.T. WOOD MOUNTING BLOCKS TO FAN COIL UNITS, REFER TO SCHEDULE FOR THE MATCH OF COIL UNITS AND CONDENSING UNIT. SIZE REFRIGERANT PIPING PER MANUFACTURER'S INSTRUCTION.
3. PROVIDE REFRIGERANT PIPING AND ALL ASSOCIATED ACCESSORIES TO CONNECT FAN COIL UNITS AND HEAT PUMPS. REFER TO SCHEDULES FOR THE MATCH OF UNITS. SIZE REFRIGERANT PIPING IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION.
4. GROUP REFRIGERANT LINES AND RUN PIPING IN WALL FROM TOP OF SLAB UP TO ELEVATION OF STRUCTURAL GIRT IN ORDER TO ELBOW INTO MECHANICAL PLATFORM.
5. PROVIDE 1"ø CONDENSATE DRAIN AND SLOPE DRAINS IN MECHANICAL SPACE TO INDIRECTLY DISCHARGE INTO MECHANICAL PLATFORM.
6. PROVIDE 1"ø OVERFLOW CONDENSATE DRAIN AND SLOPE DRAIN IN CEILING SPACE TO EXTERIOR WALL, RUN DRAIN DOWN IN WALL AND STUB DRAIN APPROXIMATELY 8" ABOVE GROUND. ELBOW DISCHARGE DOWN.



2 HVAC ENTRY FLOOR PLAN – ALT #1
1/8" = 1'-0"



1 HVAC FLOOR PLAN – CLASSROOMS
1/8" = 1'-0"

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DESCRIPTION | REV | DATE

ADDITIONS AND MODERNIZATIONS TO PE ELL ELEMENTARY, MIDDLE AND HIGH SCHOOLS

PE ELL SCHOOL DISTRICT NO. 301
PE ELL, WASHINGTON

SEAL:
RICHARD DESAI JR. STATE OF WASHINGTON 28573 REGISTERED PROFESSIONAL ENGINEER
EXPIRES 5-13-07

JOB NUMBER: 2006.004

SHEET NUMBER: **M2.01**

CONTENTS: HVAC FLOOR PLAN

DATE: 09/29/06

BID SET

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SUITE 200
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CONTACT_REX DUDA
engineering@mke-inc.com
MKE & ASSOCIATES, INC.
CONSULTING ENGINEERS
MECHANICAL AND ELECTRICAL SYSTEMS

GENERAL NOTES:

A. BECAUSE OF SCALE OF THE DRAWING, IT IS NOT POSSIBLE TO INDICATE ALL DUCT RUNS, OFFSETS, FITTINGS, VALVES AND ACCESSORIES WHICH MAY BE REQUIRED. CAREFULLY INVESTIGATE CONDITIONS SURROUNDING INSTALLATION TO PROVIDE CODE REQUIRED AND MANUFACTURER'S CLEARANCES. ALL WORK SHOWN INS DIAGRAMMATIC AND SHALL BE ROUTED TO FIT WITHIN STRUCTURE. COORDINATE WITH ALL TRADES.

B. FOR TYPICAL CONNECTIONS TO CEILING SUPPLY AIR DIFFUSERS AND RETURN AIR GRILLES, SEE DETAILS.

C. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR CEILING TYPES, GRID AND LIGHTS FOR COORDINATION.

D. PROVIDE MAXIMUM MAINTENANCE ACCESS POSSIBLE AT ALL EQUIPMENT. PROVIDE MINIMUM THREE FEET CLEARANCE AT ALL ELECTRICAL PANELS, COMPRESSOR, FAN ACCESS POINTS AND ALL OTHER ACCESS REQUIRED PER MANUFACTURER'S INSTRUCTIONS.

E. COORDINATE WITH STRUCTURAL TRADES AND FIELD VERIFY STRUCTURAL CONDITIONS PRIOR TO INSTALLATION OF MECHANICAL SYSTEMS. UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS NO PIPE OR DUCT SHALL PENETRATE ANY BEAM, JOIST, OR OTHER STRUCTURALLY SUPPORTIVE ELEMENT.

F. INSTALL VALVES, REGULATORS, DAMPERS AND ALL OTHER SUCH DEVICES REQUIRING ACCESS OR ADJUSTMENT IN PLAIN VIEW AND WITHIN REASONABLE REACH FROM LADDERS, PLATFORMS, CATWALKS AND ACCESS DOORS.

G. ALL DUCT BRANCHES TO DIFFUSERS, GRILLES AND REGISTERS SHALL BE NECK SIZE UNLESS OTHERWISE INDICATED.

H. PROVIDE MINIMUM 10 FEET CLEARANCE BETWEEN OSA INTAKES AND ALL PLUMBING VENTS, ROOF EXHAUSTS.

I. INFORMATION PERTAINING TO EXISTING HVAC EQUIPMENT AND DUCTWORK SHOWN ON THESE DRAWINGS HAS BEEN TAKEN FROM VARIOUS RECORD DRAWINGS AND SOME INVESTIGATION, BUT NOT, ALL INFORMATION HAS BEEN VERIFIED AT THE SITE. VERIFY ALL CONCEALED CONDITIONS RELATIVE T SCOPE OF WORK. SOME CONCEALED DUCT, PIPING AND OTHER ITEMS HAVE BEEN SHOWN IN AN ASSUMED LOCATION, BUT NOT VERIFIED. CONTRACTOR SHALL VERIFY.

J. EXISTING DUCTS AND PIPING ENCOUNTERED DURING CONSTRUCTION WHICH ARE NO LONGER REQUIRED, SHALL BE REMOVED AND BE DISPOSED OF AS SPECIFIED.

K. ALL DEVIATION FROM CONTRACT DRAWINGS SHALL BE RECORDED ON A REPRODUCIBLE AS-BUILT DRAWING.

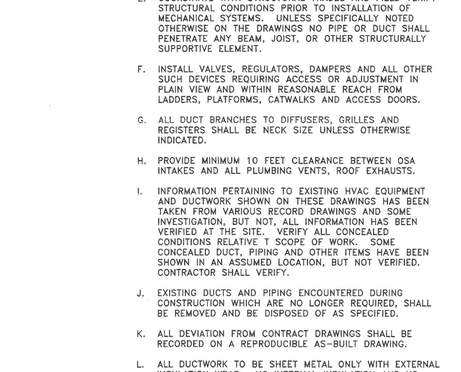
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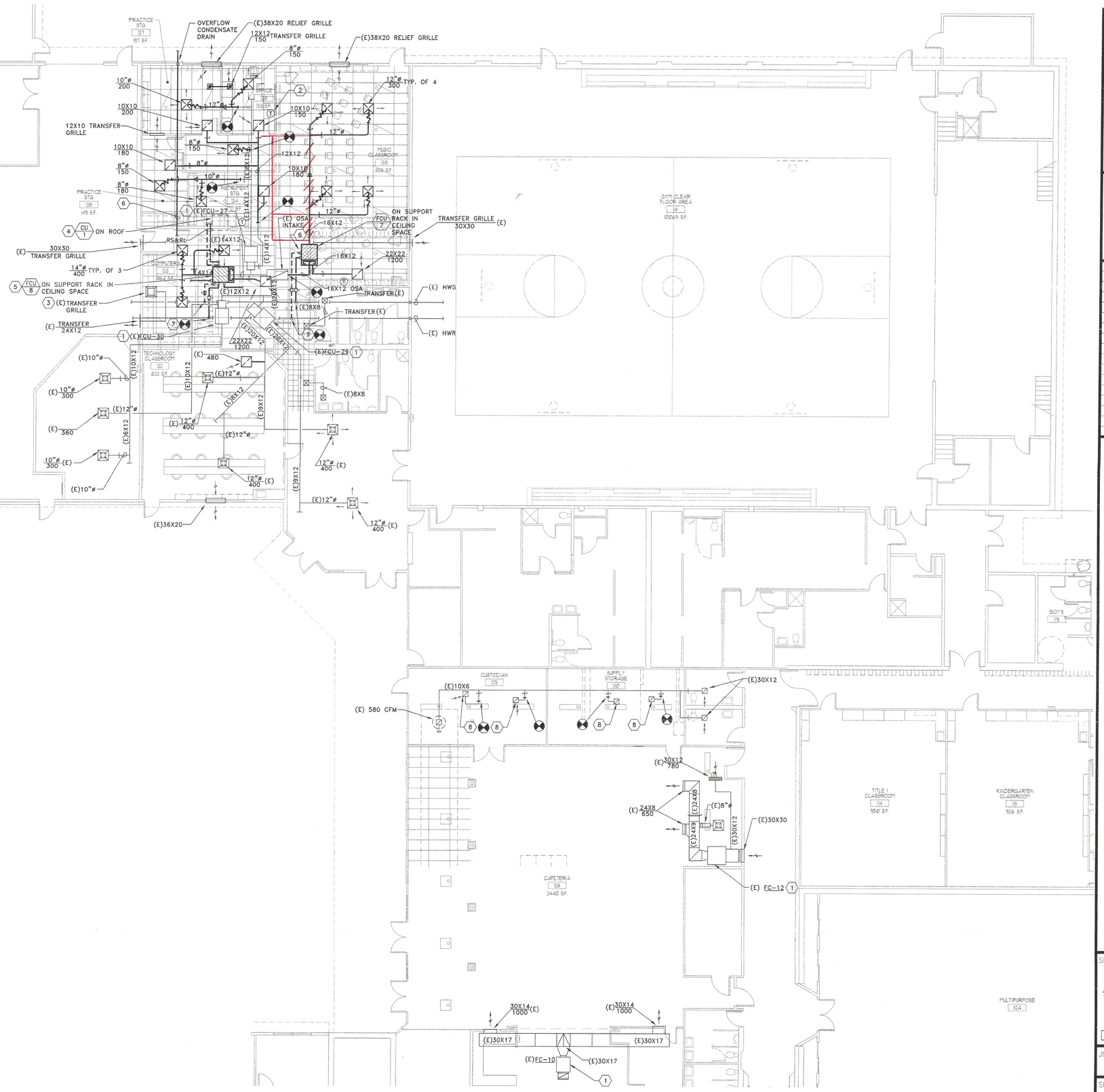
N. ALL OUTDOOR HEAT PUMP UNITS SHALL MAINTAIN 36" CLEARANCE IN FRONT OF THE DISCONNECT.

KEYED NOTES: ⬡

1. PROVIDE NEW FILTER TO (E) FCU.
2. NEW LOCATION FOR (E) THERMOSTAT
3. RELOCATE (E) TRANSFER GRILLE
4. PROVIDE LEVELING CURB ON ROOF FOR CONDENSING UNIT. PROVIDE SUPPORT LEGS SEISMICALLY ANCHORED ON CURB.
5. PROVIDE REFIGERANT PIPING AND ALL ASSOCIATED ACCESSORIES TO CONNECT FAN COIL UNITS AND CONDENSING UNIT. REFER TO SCHEDULES FOR THE MATCH OF UNIT. SIZE REFIGERANT PIPING IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION.
6. PROVIDE 1"ø OVERFLOW CONDENSATE DRAIN AND SLOPE DRAIN IN CEILING SPACE TO EXTERIOR WALL. RUN DRAIN DOWN IN WALL AND STUB DRAIN APPROXIMATELY 8" ABOVE GROUND. ELBOW DISCHARGE DOWN.
7. PROVIDE 3/4"HWS AND 3/4"HWR BRANCH TO HEATING COIL IN FCU. CONNECT BRANCHES TO HWS AND HWR MAIN. SEE DETAIL FOR HEATING COIL CONNECTION.
8. RELOCATE (E) EXHAUST GRILLE AND EXTEND DUCTWORK AS INDICATED. BALANCE EXHAUST QUANTITY FOR 100 CFM EACH.



2 HVAC FLOOR PLAN – ALT #2
1/8" = 1'-0"



1 HVAC FLOOR PLAN
1/8" = 1'-0"

NORTH

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PE ELL SCHOOL DISTRICT NO. 301
PE ELL, WASHINGTON

SEAL:
RICHARD DUSAIR
STATE OF WASHINGTON
23973
REGISTERED PROFESSIONAL ENGINEER
EXPIRES 5-13-07

JOB NUMBER: 2006.004

SHEET NUMBER: **M2.02**

CONTENTS: HVAC FLOOR PLAN

DATE: 09/29/06

BID SET

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engineering@mke-inc.com

MKE & ASSOCIATES INC.
CONSULTING ENGINEERS
MECHANICAL AND ELECTRICAL SYSTEMS

OUTSIDE AIR VENTILATION

UNIT SERVING	ROOM DESCRIPTION	ROOM SF	OCCUPANT LOAD FACTOR (PEOPLE/1000 S.F.) (1)	CODE MAX OCCUPANCY (PEOPLE)	ACTUAL OCCUPANCY (PEOPLE)	VENTILATION FACTOR (CFM / PERSON) (2)	CFM PROVIDED (2)	NATURAL VENTILATION	REMARKS
FCU 1	CLASSROOM, TYPICAL	930	50	47	32	15	480	NO	
FCU 5	MIDDLE SCHOOL COMMONS	1022	150	153	45	15	675	NO	
	BOYS/GIRLS R.R.	264	–	–	–	–	200	NO	(3)

NOTES: ◯

1. FOR OREGON REFER TO OMSC TABLE 403.3
2. ACTUAL OCCUPANCY MULTIPLIED BY VENTILATION FACTOR.

NOTE: ◯

1. FOR WASHINGTON REFER TO WSV TABLE 3-4
2. ACTUAL OCCUPANCY MULTIPLIED BY VENTILATION FACTOR.
3. DESIGN BASIS: 50CFM/WC OR URINAL.

HEAT PUMP – AIR TO AIR

MARK	DESCRIPTION	SERVICE	COOLING					HEATING				SOUND RATING (dBA)	WEIGHT (LBS)	REMARKS
			TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	EWB	AMBIENT AIR (°F)	SEER MIN.	CAPACITY @ 47° F (MBH)	COP @ 47° F MIN.	CAPACITY @ 17° F (MBH)	COP @ 17° F MIN.			
HP 1	SPLIT SYSTEM	ELEM. CLASSROOM RM 121/R.R.	36	26	68	95	13	36	3.46	23.6	2.5	72	300	
HP 2	SPLIT SYSTEM	ELEM. CLASSROOM RM 122	36	26	68	95	13	36	3.46	23.6	2.5	72	300	
HP 3	SPLIT SYSTEM	ELEM. CLASSROOM RM 123	36	26	68	95	13	36	3.46	23.6	2.5	72	300	
HP 4	SPLIT SYSTEM	ELEM. CLASSROOM RM 124	36	26	68	95	13	36	3.46	23.6	2.5	72	300	
HP 5	SPLIT SYSTEM	R.R. /MIDDLE-SCHOOL COMMONS	47.5	36.5	68	95	13	47	3.76	30.2	2.66	73	350	
HP 6	SPLIT SYSTEM	OFFICE / DETENTION RM WORK RM	18	17	68	95	12	18	3.42	10.8	2.2	72	300	

NOTES: ◯

1.

GRAVITY RELIEF HOOD

MARK	DESCRIPTION	SYSTEM	THROAT SIZE	THROAT VELOCITY	CFM	REMARKS
RH 1	ROOFTOP	FCU 1	20X24	330	1100	(1)
RH 2	ROOFTOP	FCU 2	20X24	330	1100	(1)
RH 3	ROOFTOP	FCU 3	20X24	330	1100	(1)
RH 4	ROOFTOP	FCU 4	20X24	330	1100	(1)
RH 5	ROOFTOP	FCU 5	20X24	340	1200	(1)
RH 6	ROOFTOP	ELEMENTARY CLASSROOM 116	20X24	330	1100	(1)
RH 7	ROOFTOP	ELEMENTARY CLASSROOM 117	20X24	330	1100	(1)
RH 8	ROOFTOP	ELEMENTARY CLASSROOM 118	20X24	330	1100	(1)

NOTES: ◯

1. COUNTER-BALANCED BACK-DRAFT DAMPER SET FOR 0.03 IN. W.C.

OUTSIDE AIR INTAKE HOOD

MARK	DESCRIPTION	SYSTEM	THROAT SIZE	THROAT VELOCITY	CFM	REMARKS
OAH 1	ROOFTOP	ELEMENTARY CLASSROOM 117/118	20X42	475	2600	
OAH 2	ROOFTOP	MIDDLE SCHOOL CLASSROOM 105/108	20X36	475	2600	
OAH 3	ROOFTOP	MIDDLE SCHOOL CLASSROOM	56X80	475	10800	

NOTES: ◯

1. .

FAN COIL UNIT

MARK	DESCRIPTION	SERVING	NOMINAL TONNAGE	HP HTG. OUTPUT @ 17°F (MBH)	NOMINAL KW OUTPUT	HEAT KW DE-RATED	NUMBER OF STAGES	CFM	ESP	MOTOR HP	MIN. OSA (CFM)	WEIGHT (LB.S)	CAPACITY TO MATCH	HW COIL						REMARKS
														EAT	TOTAL CAPACITY (MBH)	EWT (°F)	LWT (°F)	GPM	WPD (FT)	
FCU 1	HORIZONTAL INDOOR	ELEM. CLASSROOM 121 & R.R.	3	23.6	10	7.5	1	1200	0.6	1/3	480	200	HP 1	–	–	–	–	–	–	(1) (2) (3)
FCU 2	HORIZONTAL INDOOR	ELEM. CLASSROOM 122	3	23.6	10	7.5	1	1100	0.6	1/3	480	200	HP 2	–	–	–	–	–	–	(1) (2) (3)
FCU 3	HORIZONTAL INDOOR	ELEM. CLASSROOM 123	3	23.6	10	7.5	1	1100	0.6	1/3	480	200	HP 3	–	–	–	–	–	–	(1) (2) (3)
FCU 4	HORIZONTAL INDOOR	ELEM. CLASSROOM 124	3	23.6	10	7.5	1	1100	0.6	1/3	500	200	HP 4	–	–	–	–	–	–	(1) (2) (3)
FCU 5	HORIZONTAL INDOOR	MIDDLE SCHOOL COMMONS	4	30.2	15	11.5	1	1500	0.6	3/4	675	250	HP 5	–	–	–	–	–	–	(1) (2) (3)
FCU 6	HORIZONTAL INDOOR	OFFICE/DETENTION ROOM WORK ROOM	1-1/2	10.8	3	2.3	1	600	.5	1/4	100	200	HP 6	–	–	–	–	–	–	(1)
FCU 7	HORIZONTAL INDOOR HYDRONIC HEAT	MUSIC ROOM	–	–	–	–	–	1200	0.6	1/3	525	350	–	80/67	40	180	156	3.5	2	(1) (2)
FCU 8	HORIZONTAL INDOOR HYDRONIC HEAT	COMPUTER SHOP	3	–	–	–	–	1200	0.6	1/3	300	350	CU 1	79/66	25	180	156	2.5	2	(1) (2) (4)

REMARK NOTES: ◯

1. PROVIDE SINGLE POINT CONNECTION TO UNIT.
2. PROVIDE ECONOMIZER TO UNIT.
3. PROVIDE MATCHING HEAT PUMP COIL IN UNIT
4. PROVIDE MATCHING DX-COOLING COIL TO UNIT

EXHAUST FAN

MARK	DESCRIPTION	SYSTEM	CFM	TSP (IN WG)	HP	DRIVE	RPM	TIP SPEED (FPM)	INTERLOCK	WHEELTYPE	DISCHARGE	SONES	WEIGHT (LBS)	REMARKS
EF 1	ROOFTOP CENTRIFUGAL	BOYS 119/ GIRLS 120	500	0.375	1/4	BELT	1060	–	–	BI	DOWN	5	50	(1) CONTROLLED BY B.A.S.
EF 2	ROOFTOP CENTRIFUGAL	BOYS 110/ GIRLS 111	700	0.375	1/4	BELT	1248	–	–	BI	DOWN	5	50	(1) CONTROLLED BY B.A.S.

NOTES: ◯

1. PROVIDE MOTOR STARTER.

OUTDOOR CONDENSING UNIT

MARK	NOMINAL TONS	SUCTION TEMP (F°)	CONDENSING TEMP (F°)	CAPACITY TO MATCH	REFRIG.	SEER	NOISE RATING (DB)	LOW AMBIENT CONTROL	WEIGHT (LBS)	REMARKS
CU 1	3	45	95	FCU 8	R-401A	13	–	NO	300	

ELECTRIC HEATER

MARK	DESCRIPTION	SYSTEM	KW (INPUT)	REMARKS
EH 1	ELECTRIC WALL MOUNTED HEATER	HIGH SCHOOL ENTRY/COMMON	4.5	PROVIDE INTEGRAL THERMOSTAT
EH 2	ELECTRIC WALL MOUNTED HEATER	HIGH SCHOOL ENTRY/COMMON	0.5	PROVIDE INTEGRAL THERMOSTAT

NOTE: MOUNT ALL HEATERS AT 8'' ABOVE FINISHED FLOOR.

COORDINATE ELECTRICAL REQUIREMENTS AND CHARACTERISTICS OF ALL EQUIPMENT WITH DIVISION 16.

JFC ARCHITECTS inc.
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DESCRIPTION | REV | DATE

ADDITIONS AND MODERNIZATIONS TO
PE ELL ELEMENTARY, MIDDLE AND HIGH SCHOOLS
PE ELL SCHOOL DISTRICT NO. 301
PE ELL, WASHINGTON

SEAL:
RICHARD DUSA
STATE OF WASHINGTON
20373
REGISTERED
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EXPIRES 5-13-07

JOB NUMBER: 2006.004

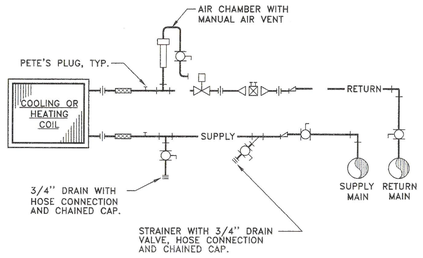
SHEET NUMBER: **M8.01**

CONTENTS: HVAC SCHEDULES & DETAILS

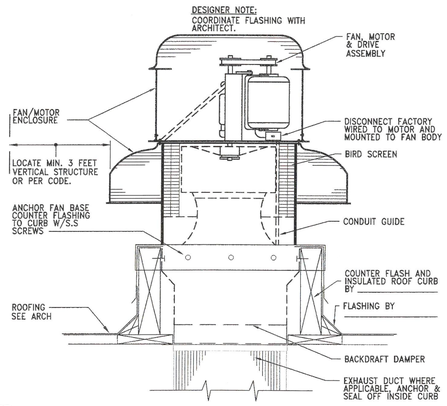
DATE: 09/29/06

BID SET

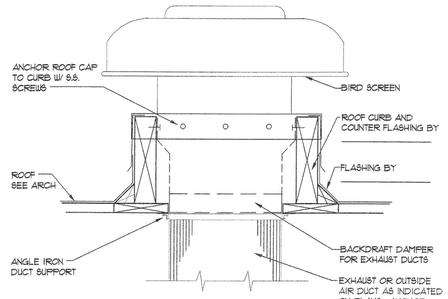
8916 SW MACADAM AVE.
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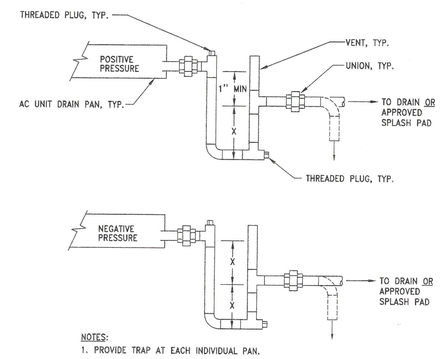
1 P8.01 DETAIL – 2-WAY AHU COIL PIPING DIAGRAM
SCALE: N.T.S. MD055A



2 P8.01 DETAIL – ROOF EXHAUST FAN – BELT DRIVE
SCALE: N.T.S. MD009

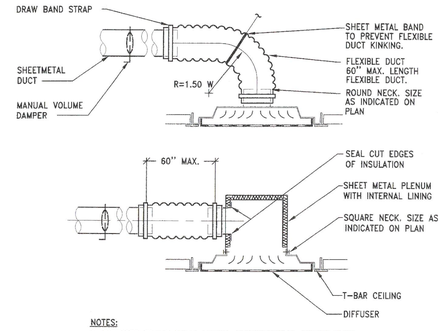


3 P8.01 DETAIL – ROOF HOOD
SCALE: N.T.S. MD063



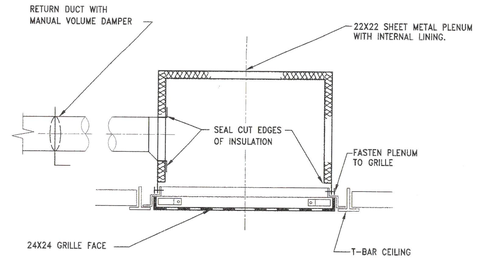
NOTES:
1. PROVIDE TRAP AT EACH INDIVIDUAL PAN.
2. X = TSP + 1 INCH STATIC PRESSURE.
3. TSP = TOTAL FAN STATIC PRESSURE. TO BE FIELD VERIFIED PRIOR TO INSTALLATION.

4 P8.01 DETAIL – CONDENSATE DRAIN
SCALE: N.T.S. MD054

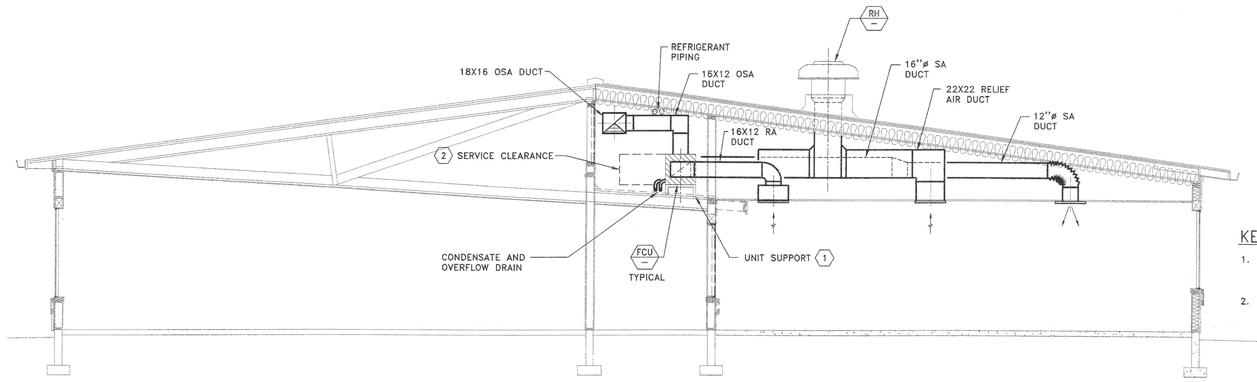


NOTES:
1. DIFFUSER FRAME SHALL MATCH ARCHITECTURAL CEILING TYPE.
2. IN NON-LAY-IN CEILINGS, PROVIDE 18" X 18" MIN. ACCESS PANEL OR REMOTE OPERATOR FOR BALANCING DAMPER. COORDINATE LOCATION W/ ARCHITECT.
3. IF DUCT SIZE IS DIFFERENT FROM DIFFUSER NECK SIZE, PROVIDE TRANSITION FITTING AT DIFFUSER NECK.

2 M2.01 DETAIL – CEILING SUPPLY DIFFUSER
SCALE: N.T.S. MD060



3 M2.01 DETAIL – CEILING RETURN GRILLE
SCALE: N.T.S. MD061



KEYED NOTES:
1. PROVIDE LEVELING 1 1/4"X1 1/4" 3/16" ANGLE IRON MOUNTING FRAME FOR EACH FAN COIL. FRAME TO BE 10" HIGH.
2. PROVIDE ADEQUATE SPACE FOR EQUIPMENT SERVICE ACCESS IN ACCORDANCE WITH EQUIPMENT MONUFACTURER'S INSTRUCTIONS. OFFSET ALL DUCT ROUTING TO ACCOMODATE SERVICE CLEARANCE FOR MAINTENANCE PERSONNEL.

1 M8.01 MECHANICAL SECTION
SCALE: 1/4"=1'-0"

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PE ELL, WASHINGTON

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STATE OF WASHINGTON
20572
REGISTERED
PROFESSIONAL ENGINEER
EXPIRES 5-13-07

JOB NUMBER: 2006.004

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CONTENTS: HVAC DETAILS

DATE: 09/29/06

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MECHANICAL AND ELECTRICAL SYSTEMS

ELECTRICAL SYMBOLS

SOME SYMBOLS MAY NOT APPEAR ON DRAWINGS
SHADED SYMBOLS INDICATE EXISTING DEVICE

BRANCH CIRCUIT IN WALL OR CEILING
BRANCH CIRCUIT EXPOSED
BRANCH CIRCUIT IN FLOOR OR EARTH
BRANCH CIRCUIT EXISTING
UNDERGROUND PRIMARY — UP —
SPARE LINE — SP —
EMERGENCY CIRCUIT — EM —
TELEPHONE LINE — TEL —
VIDEO/CLS — VID —
DATA LINE — DA —
MARKER LINES INDICATE HOT
LIGHTER LINES INDICATE EXISTING

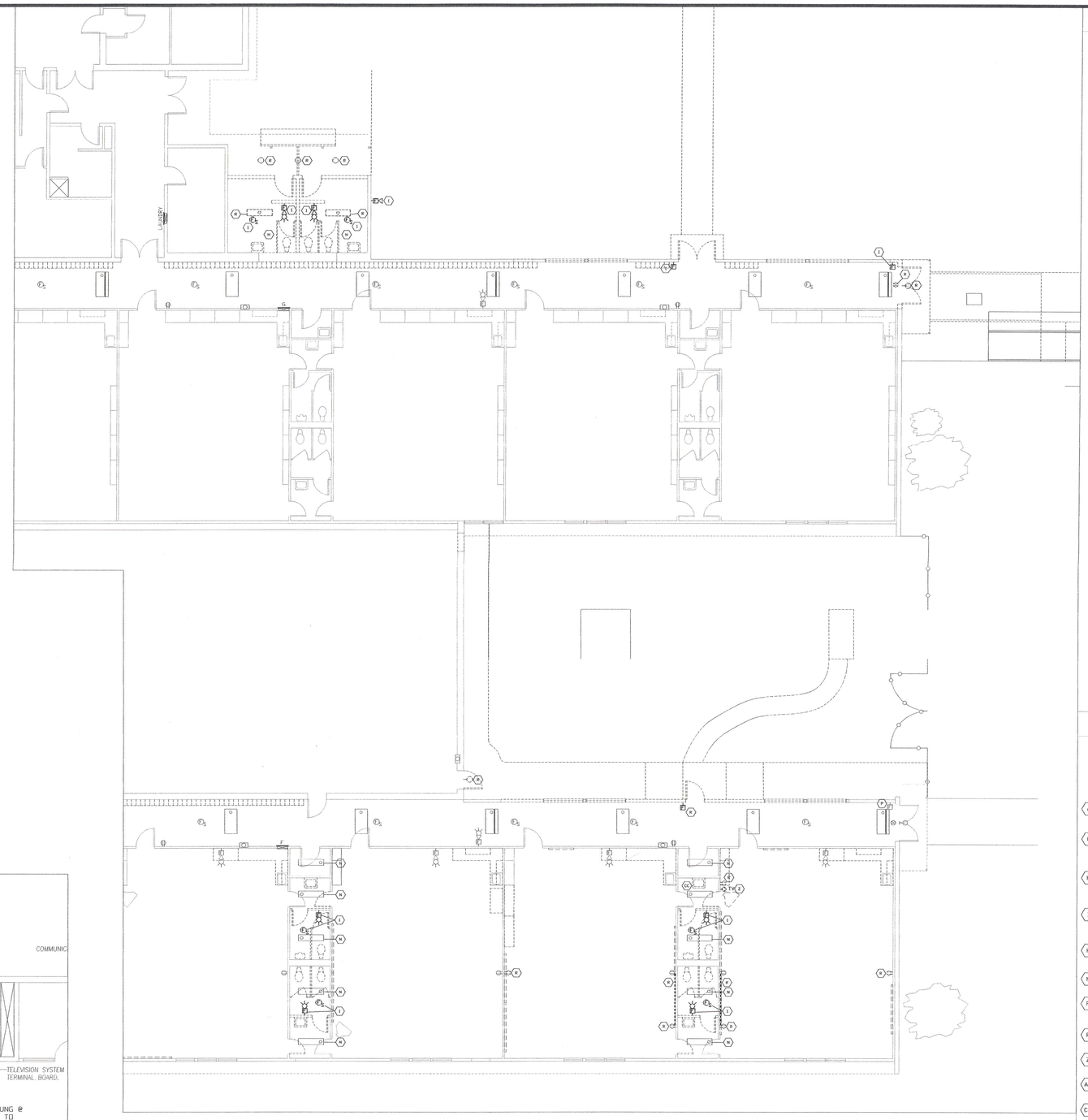
HASH MARKS = # OF WIRES
(NO HASH MARKS = 2 WIRES + 1 GRND)
HASH MARKS = # OF WIRES W/ HARD WIRED GROUND

LIGHTING FIXTURE-FLUORESCENT-RECESSED MOUNT
LIGHTING FIXTURE-FLUORESCENT-SURFACE MOUNT
LIGHTING FIXTURE-FLUORESCENT-W/ EMERGENCY BATTERY INVERTER
LIGHTING FIXTURE-FLUORESCENT-ON EMERGENCY CIRCUIT
LIGHTING FIXTURE-EXISTING SHOWN DOTTED (TYPICAL TO REMOVE)
LIGHTING FIXTURE-EXISTING SHOWN LIGHT LINES (TYPICAL TO REMAIN)
LIGHTING FIXTURE-WALL MOUNT
LIGHTING FIXTURE-RECESSED
LIGHTFAN FIXTURE-RECESSED
LIGHTING FIXTURE-CEILING MOUNT
LIGHTING FIXTURE-CEILING MOUNT
LIGHTING FIXTURE-WALL SCONCE
LIGHTING FIXTURE-BRACKET MOUNT
LIGHTING FIXTURE-EMERGENCY BATTERY PACK
POLE MOUNTED LIGHTING FIXTURE AS TYPED REFER TO POLE BASE DETAIL "P3"
LIGHTING FIXTURE- BALLARD
LIGHTING FIXTURE-EXIT LIGHT
OCCUPANCY SENSOR
OCCUPANCY SENSOR RELAY
DUPLEX CONVENIENCE OUTLET (DCO)
SAFETY TYPE DCO
DCO 120V W/ GROUND FAULT PROTECTION
WAMPLEX CONVENIENCE OUTLET
DEDICATED DCO (HARD WIRE GROUND)
DEDICATED DCO (SPECIFIC EQUIPMENT)
OUTLET 220V - AS NOTED
JUNTION BOX
FLOOR MOUNTED OUTLET - AS NOTED
CONNECTION TO EQUIPMENT
MOTOR DRIVEN DEVICE
= DEVICE OVER COUNTER
LIGHTING SWITCH - SINGLE POLE
LIGHTING SWITCH - SECTION AS NOTED
LIGHTING SWITCH - THREE WAY
LIGHTING SWITCH - FOUR WAY
LIGHTING SWITCH - DIMMER
LIGHTING SWITCH - KEYED
LIGHTING SWITCH - PILOT LIGHTED
LIGHTING SWITCH - MOMENTARY CONTACT
SWITCH - MOTOR RATED
SWITCH - WITH OCCUPANCY SENSOR
1"CONDUIT FROM DEVICE BOX TO ACCESSIBLE CEILING SPACE OR AS NOTED.
MOTOR STARTER
SECURITY CAMERA

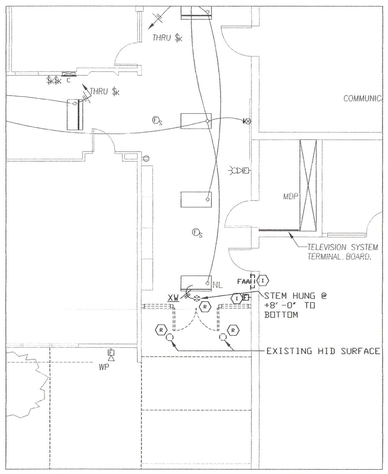
ELECTRICAL PANEL W/NAME
(TYPICAL TO NEW)
ELECTRICAL PANEL EXISTING W/NAME
(TYPICAL TO REMOVE)
ELECTRICAL PANEL EXISTING W/NAME
(TYPICAL TO REMAIN)
FIRE ALARM SIGNAL LIGHT AND HORN
MINI HORN STROBE LOWER 160
FIRE ALARM SIGNAL LIGHT AND HORN
(*DENOTE SOUND)
FIRE ALARM PULL STATION
FIRE ALARM HORN
FIRE ALARM SIGNAL LIGHT
FIRE ALARM SIGNAL LIGHT AND HORN
FIRE ALARM SMOKE DETECTOR
FIRE ALARM DUCT DETECTOR
FIRE ALARM HEAT DETECTOR
FIRE ALARM DETECTOR W/ A = AUX. CONTACTS
FIRE ALARM MAGNETIC DOOR HOLDER
FIRE ALARM EQUIPMENT CONNECTION
FIRE SMOKE DAMPER
FIRE ALARM DETECTOR CARBON MONOXIDE
FIRE ALARM DETECTOR W/ AB = ALARM BASE

KEY PAD OUTLET
COMMUNICATIONS OUTLET
VOLUME CONTROL OUTLET
CLOCK
CLOCK-SPEAKER COMBINATION
CLASS BELL
SPEAKER
PUSH BUTTON / CALL BACK SWITCH+WITH SPEAKER
PUSH BUTTON / CALL BACK SWITCH
PUSH BUTTON / START-STOP
DATA OUTLET
TELEPHONE/DATA OUTLET
PRINTER OUTLET
TELEVISION OUTLET
VIDEO JACK OUTLET
AUDIO JACK OUTLET
TELEPHONE OUTLET
INTERCOM OUTLET
DISCONNECT W/FUSES
DISCONNECT
PHOTO ELECTRIC CELL
TIME CLOCK
NIGHT LIGHT
WEATHER PROOF
WIRE GUARD
E.C. ELECTRICAL CONTRACTOR
BKR CIRCUIT BREAKER
PEC PHOTO ELECTRIC CELL
NEC NATIONAL ELECTRICAL CODE
W/ WITH
DCO DUPLEX CONVENIENCE OUTLET
CKT CIRCUIT
AFF ABOVE FINISH FLOOR
BFG BELOW FINISHED GRADE
CIRCUIT BREAKER ENCLOSURE
cb = SHUNT TRIP
K INSTALLED IN TOE KICK AREA
FIXTURE TYPE - LETTER UNDERLINED
NUMBERED HEX SYMBOLS: REFER TO MECHANICAL EQUIPMENT CONNECTION SCHEDULE
LETTERED HEX SYMBOLS REFER TO SHEET NOTES
OTHER SYMBOL SHAPES: REFER TO OTHER EQUIPMENT CONNECTION SCHEDULES AS NEEDED.

NOTE:
DOTTED SYMBOLS REFER TO DEVICES TO BE REMOVED. DASHED OR DOTTED CONDUIT LINES ON DEMO SHEETS ARE TO BE VERIFIED BEFORE REMOVAL. CONDUIT MAY BE EITHER EXISTING OF SURFACE OR SMOOTHGROUND RAN CONDUIT.



1 FLOOR PLAN
1/8" = 1'-0"
NORTH



2 DEMO ENTRY FLOOR PLAN- ALT.#1
1/8" = 1'-0"
NORTH

GENERAL NOTES

KEY NOTES

HEX NOTES:

(A) REMOVE AND RELOCATE THE EXISTING ELECTRICAL DEVICES. RE-CONNECT COMPLETE TO THE EXISTING CIRCUITRY. SEE SHEET #E2.02 FOR THE NEW LOCATIONS.

(G) PROVIDE FOR CONTINUATION OF CIRCUITRY AND SYSTEM FUNCTIONS AS REQUIRED FOR CONTINUED USE. PROVIDE FOR OPENING IN CABINET FOR ACCESS TO DEVICE AS NEEDED.

(H) HOME RUN CIRCUIT AS SHOWN SHALL BE SAVED FOR USE. ALL EXISTING CONDUIT AND WIRE MAY BE USED IN PLACE IF APPLICABLE, BUT SHALL NOT BE RE-USED ONCE REMOVED FROM ORIGINAL INSTALLATION.

(I) EXISTING FIRE ALARM DEVICES TO BE RELOCATED. EXTEND EXISTING CIRCUITRY COMPLETE TO NEW LOCATION. SEE SHEET #E3.01 FOR NEW LOCATIONS.

(K) DISCONNECT THE EXISTING CIRCUITRY COMPLETE FROM THE EXISTING MECHANICAL EQUIPMENT BACK TO THE SERVING ELECTRICAL PANEL.

(N) REMOVE EXISTING FIXTURE AND PROVIDE NEW AS TYPED. REPLACE IN-PLACE. REFER TO SHEET E2.01

(P) PROVIDE FOR CONTINUATION OF CIRCUITRY AND SYSTEM FUNCTIONS AS REQUIRED FOR CONTINUIED USE.

(R) REMOVE ELECTRICAL COMPLETE. PROVIDE FOR CONTINUATION OF CIRCUITS AS REQUIRED. VERIFY ON SITE PRIOR TO REMOVAL. REMOVE ABANDONED WIRING.

(Z) EXISTING TELEVISION RECEPTACLE TO BE RELOCATED. EXTEND AND RECONNECT EXISTING SYSTEM CIRCUITRY COMPLETE. SEE SHEET #E3.01 FOR NEW LOCATION.

(AA) EXISTING CLOCK/SPEAKER COMBINATION UNIT AND INTERCOM SWITCH TO BE REMOVED COMPLETELY AND RETURNED TO OWNER FOR INVENTORY.

(CC) EXISTING LIGHTING FIXTURE TO BE RELOCATED. SEE SHEET #E2.01 FOR NEW LOCATION.

(EE) REPLACE THE EXISTING LIGHTING FIXTURE WITH NEW. SEE SHEET #E2.02 FOR NEW FIXTURE TYPE AND LOCATION. RECONNECT COMPLETE TO THE EXISTING CIRCUITRY.

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DESCRIPTION	REV	DATE

ADDITIONS AND MODERNIZATIONS TO PE ELL ELEMENTARY, MIDDLE AND HIGH SCHOOLS

PE ELL SCHOOL DISTRICT NO. 301
PE ELL, WASHINGTON

SEAL:
DONALD D. ATHAY
STATE OF WASHINGTON
PROFESSIONAL ENGINEER
EXPIRES APRIL 5, 2008

JOB NUMBER: 2006.004

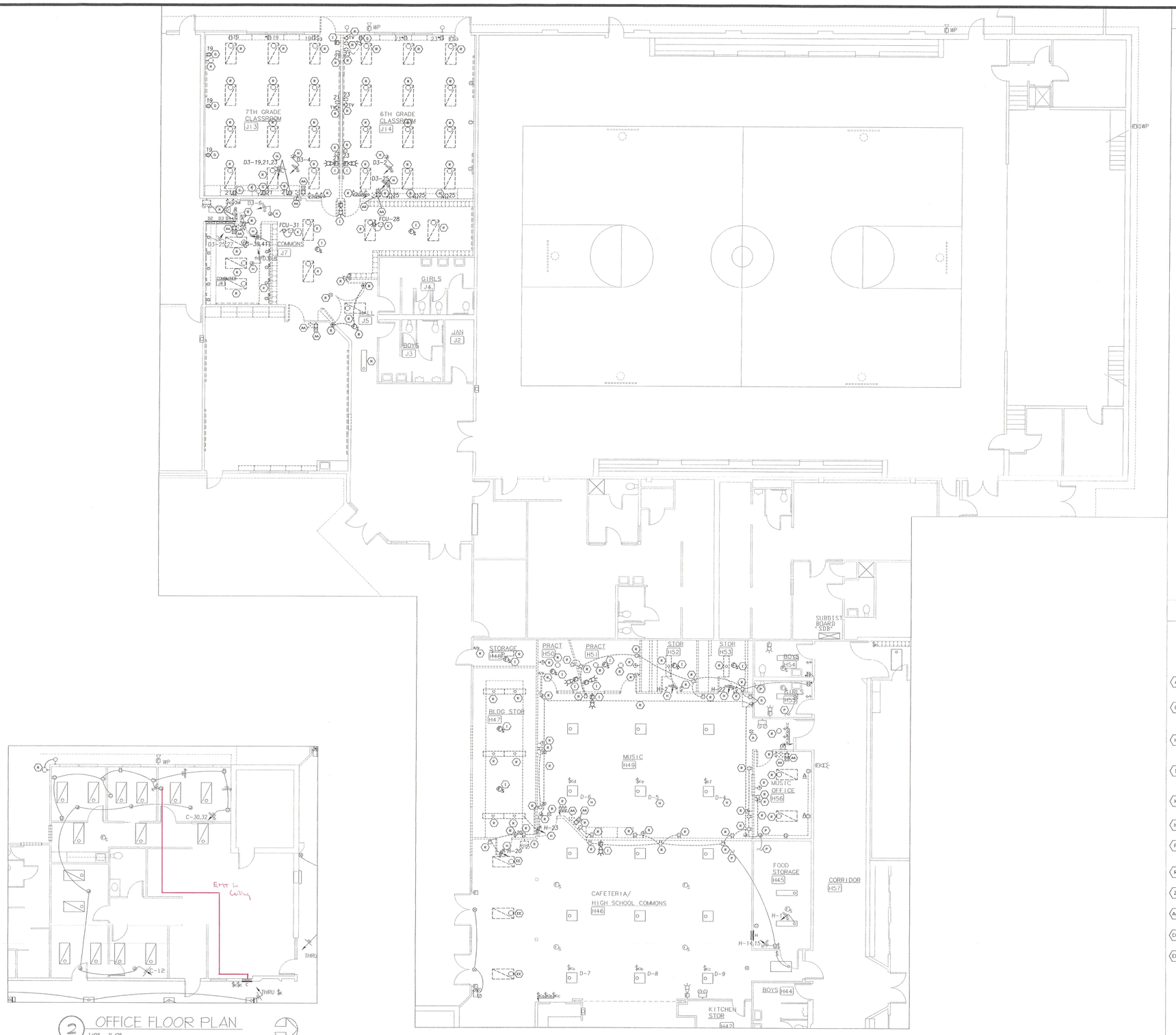
SHEET NUMBER: E1.01

CONTENTS: ELECTRICAL DEMOLITION

DATE: 09/29/06

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1 FLOOR PLAN
1/8" = 1'-0"
NORTH

2 OFFICE FLOOR PLAN
1/8" = 1'-0"
NORTH

GENERAL NOTES

KEY NOTES

HEX NOTES:

(A) REMOVE AND RELOCATE THE EXISTING ELECTRICAL DEVICES. RE-CONNECT COMPLETE TO THE EXISTING CIRCUITRY. SEE SHEET #E2.02 FOR THE NEW LOCATIONS.

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(R) REMOVE ELECTRICAL COMPLETE. PROVIDE FOR CONTINUATION OF CIRCUITS AS REQUIRED. VERIFY ON SITE PRIOR TO REMOVAL. REMOVE ABANDONED WIRING.

(Z) EXISTING TELEVISION RECEPTACLE TO BE RELOCATED. EXTEND AND RECONNECT EXISTING SYSTEM CIRCUITRY COMPLETE. SEE SHEET #E3.01 FOR NEW LOCATION.

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(EE) REPLACE THE EXISTING LIGHTING FIXTURE WITH NEW. SEE SHEET #E2.02 FOR NEW FIXTURE TYPE AND LOCATION. RECONNECT COMPLETE TO THE EXISTING CIRCUITRY.

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DESCRIPTION	REV	DATE

ADDITIONS AND MODERNIZATIONS TO PE ELL ELEMENTARY, MIDDLE AND HIGH SCHOOLS

PE ELL SCHOOL DISTRICT NO. 301
PE ELL, WASHINGTON

SEAL:
DONALD D. ATHAY
STATE OF WASHINGTON
REGISTERED PROFESSIONAL ENGINEER
EXPIRES APRIL 5, 2008

JOB NUMBER: 2006.004

SHEET NUMBER: E1.02

CONTENTS: ELECTRICAL DEMOLITION

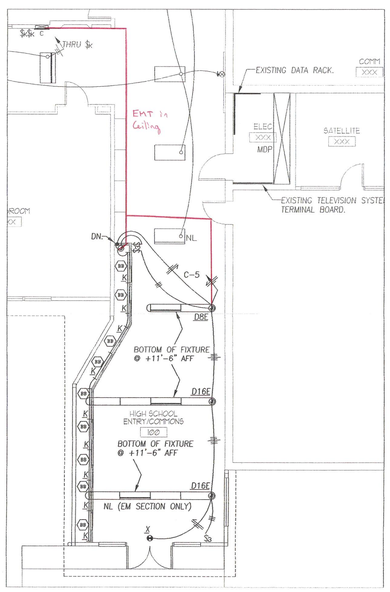
DATE: 09/29/06

BID SET

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1 FLOOR PLAN
1/8" = 1'-0"



2 ENTRY FLOOR PLAN-ALT.#1
1/8" = 1'-0"

GENERAL NOTES

1. COORDINATE PLACEMENT OF ELECTRICAL EQUIPMENT WITH MECHANICAL EQUIPMENT TO PREVENT SPACE USE CONFLICTS.
2. SEE SHEET #E3.02 FOR ADDITIONAL LIGHTING FIXTURES.

KEY NOTES

HEX NOTES:

- (B) RELOCATED EXISTING ELECTRICAL DEVICE. RECONNECT COMPLETE TO THE EXISTING CIRCUITRY. SEE SHEET #E1.02 FOR EXISTING LOCATIONS.
- (N) CONNECT TO THE EXISTING CIRCUITRY COMPLETE.
- (Q) PROVIDE AND INSTALL A ONE LAMP BATTERY INVERTER UNIT IN THE EXISTING LIGHTING FIXTURE. WIRE COMPLETE TO AN EXISTING UN-SWITCHED LIGHTING CIRCUIT.
- (T) EQUIPMENT INSTALLED IN ATTIC MECHANICAL SPACE. VERIFY INSTALLATION LOCATION PRIOR TO ROUGH-IN.
- (BB) REFER TO DETAIL '14' ON SHEET #A8.02 FOR INSTALLATION OF DISPLAY CASE LIGHTING.
- (DD) RELOCATED EXISTING LIGHTING FIXTURE. SEE SHEET #E1.01 FOR THE EXISTING LOCATION.

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ADDITIONS AND MODERNIZATIONS TO PE ELL ELEMENTARY, MIDDLE AND HIGH SCHOOLS

PE ELL SCHOOL DISTRICT NO. 301
PE ELL, WASHINGTON

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e-mail rathay@athayeng.com

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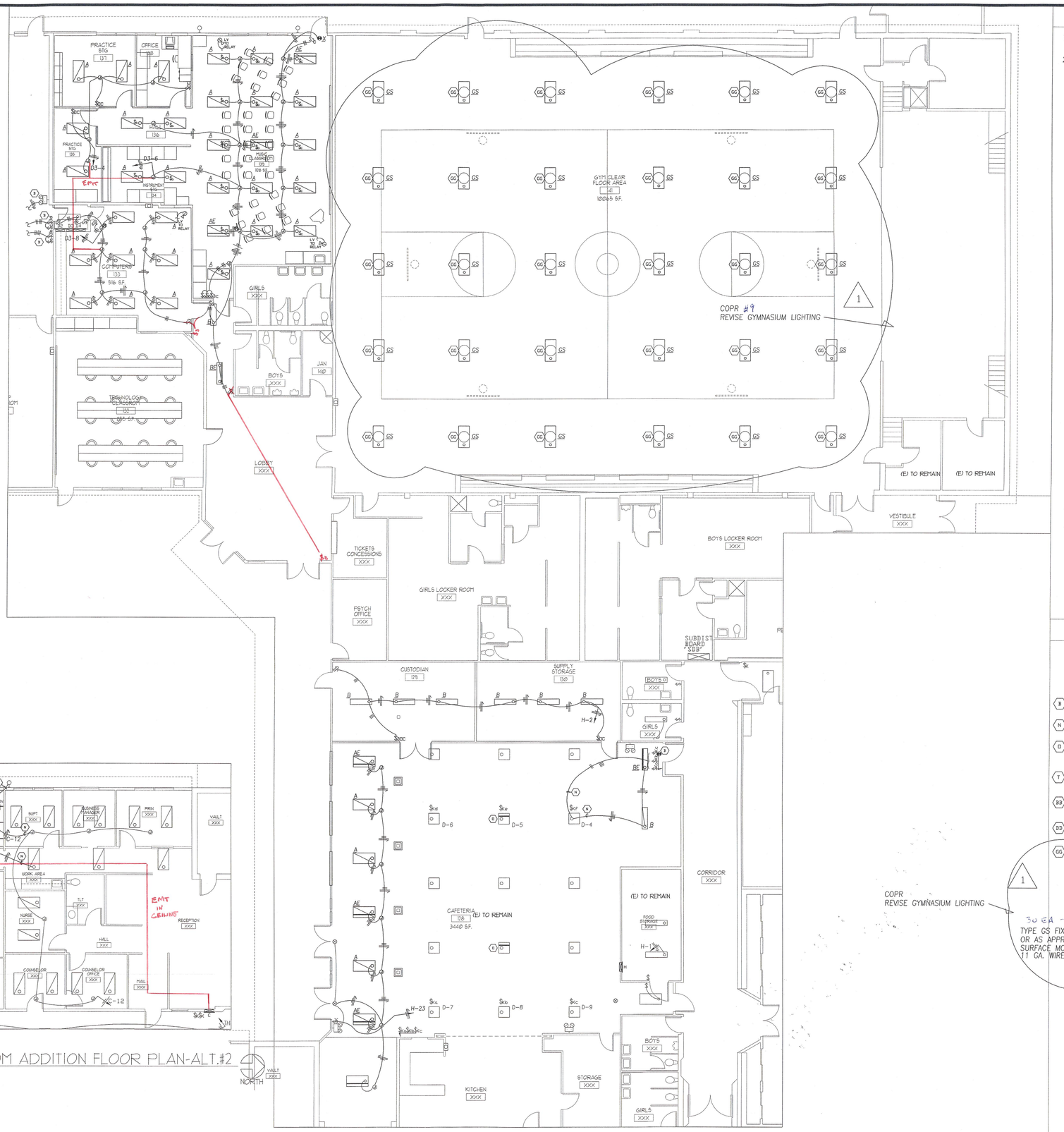
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SHEET NUMBER: E2.01

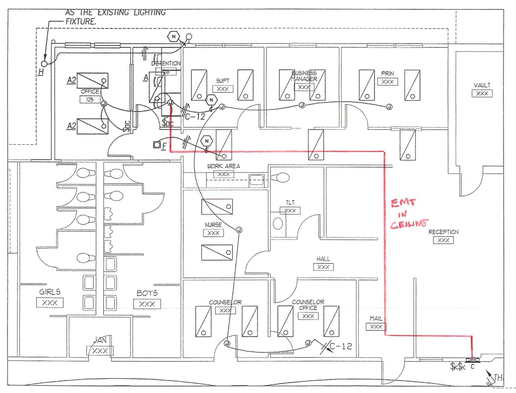
CONTENTS: ELECTRICAL LIGHTING

DATE: 09/29/06

BID SET



1 FLOOR PLAN
1/8" = 1'-0"



2 OFFICE/DETENTION ROOM ADDITION FLOOR PLAN-ALT.#2
1/8" = 1'-0"

GENERAL NOTES

1. COORDINATE PLACEMENT OF ELECTRICAL EQUIPMENT WITH MECHANICAL EQUIPMENT TO PREVENT SPACE USE CONFLICTS.
2. SEE SHEET #E3.02 FOR ADDITIONAL LIGHTING FIXTURES.

KEY NOTES

HEX NOTES:

- (B) RELOCATED EXISTING ELECTRICAL DEVICE. RECONNECT COMPLETE TO THE EXISTING CIRCUITRY. SEE SHEET #E1.02 FOR EXISTING LOCATIONS.
- (N) CONNECT TO THE EXISTING CIRCUITRY COMPLETE.
- (D) PROVIDE AND INSTALL A ONE LAMP BATTERY INVERTER UNIT IN THE EXISTING LIGHTING FIXTURE. WIRE COMPLETE TO AN EXISTING UN-SWITCHED LIGHTING CIRCUIT.
- (T) EQUIPMENT INSTALLED IN ATTIC MECHANICAL SPACE. VERIFY INSTALLATION LOCATION PRIOR TO ROUGH-IN.
- (BB) REFER TO DETAIL '14' ON SHEET #A8.02 FOR INSTALLATION OF DISPLAY CASE LIGHTING.
- (DD) RELOCATED EXISTING LIGHTING FIXTURE. SEE SHEET #E1.01 FOR THE EXISTING LOCATION.
- (GG) DISCONNECT AND REMOVE EXISTING LIGHTING FIXTURE. PROVIDE FLEXIBLE CONDUIT EXTENSION FROM EXISTING J-BOX AT EACH EXISTING LIGHTING FIXTURE TO NEW SURFACE LIGHTING FIXTURE AS REQUIRED. VERIFY EXISTING CONDITIONS AND REQUIREMENTS ON SITE.
  PATCH EXISTING HOLE IN CEILING AS REQUIRED FOR CONCEALMENT BY NEW LIGHTING FIXTURE.
  PROVIDE NEW TYPE GS FIXTURE IN EACH LOCATION AND CONNECT COMPLETE TO EXISTING CIRCUIT.

COPR
REVISE GYMNASIUM LIGHTING

1

30 EA -
TYPE GS FIXTURE: LOS ANGELES LIGHTING #LCD586-EBY320-6-4M-SR-WG11-FSW-CA-2E5H OR AS APPROVED.
SURFACE MOUNTED, 6 LAMP T5HO FIXTURE, ENHANCED ALUMINUM REFLECTOR, 11 GA. WIRE GUARD, 3 ELEC. T5HO BALLAST, CLEAR ACRYLIC DIFFUSER.

PR#9

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GYM LTG	1	/26/07
DESCRIPTION	REV	DATE

ADDITIONS AND MODERNIZATIONS TO PE ELL ELEMENTARY, MIDDLE AND HIGH SCHOOLS

PE ELL SCHOOL DISTRICT NO. 301
PE ELL, WASHINGTON

SEAL:
DONALD D. ATHAY
STATE OF WASHINGTON
PROFESSIONAL ENGINEER
EXPIRES APRIL 5, 2008

JOB NUMBER: 2006.004

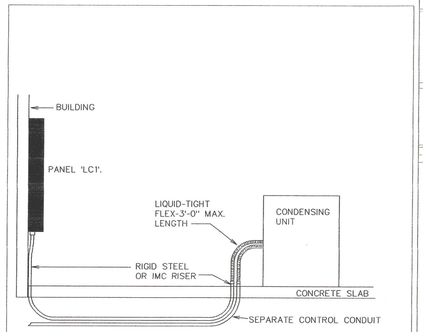
SHEET NUMBER: E2.02

CONTENTS: ELECTRICAL LIGHTING

DATE: 09/29/06

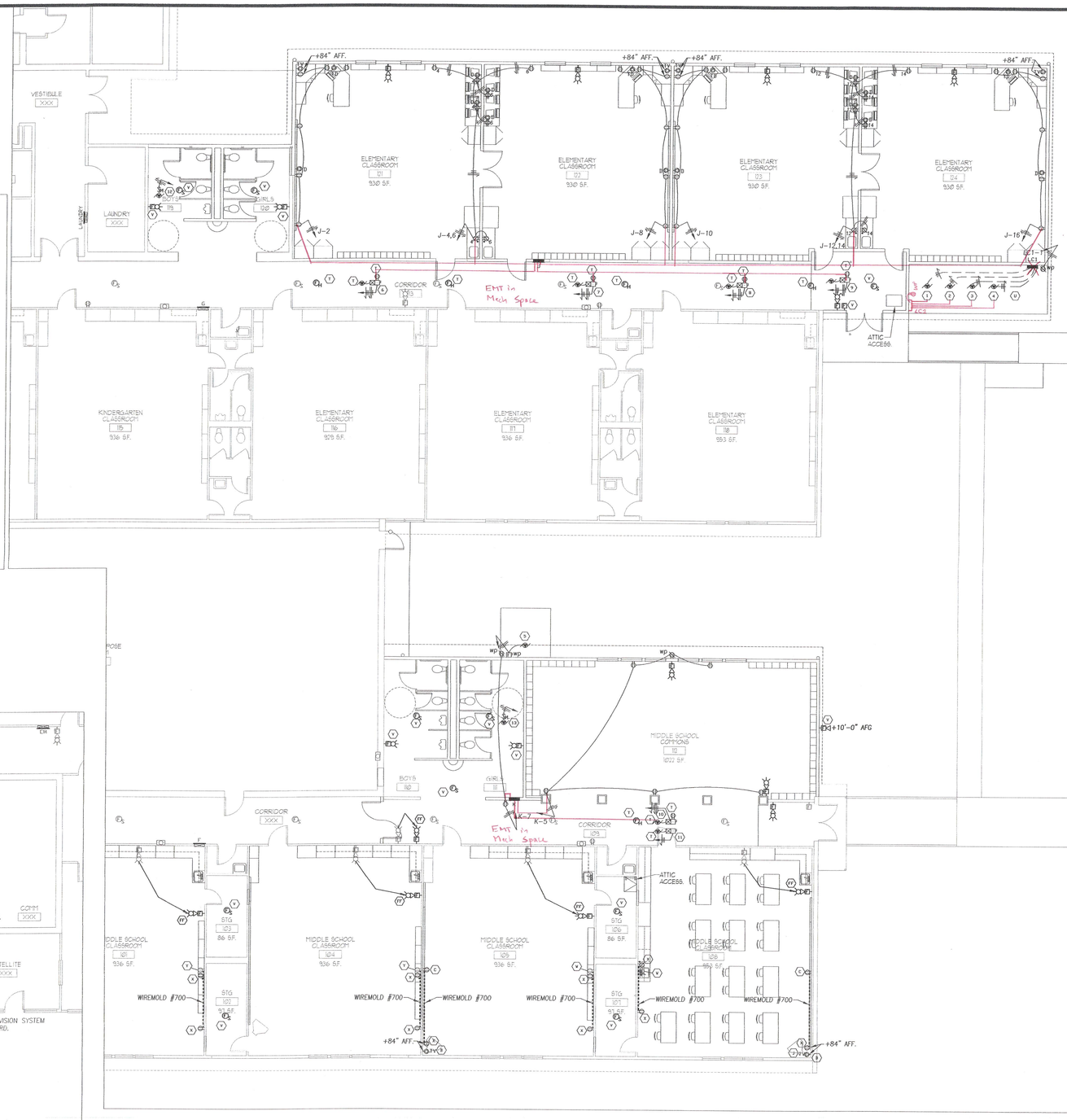
BID SET

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CONDENSING UNIT CONDUIT DETAIL

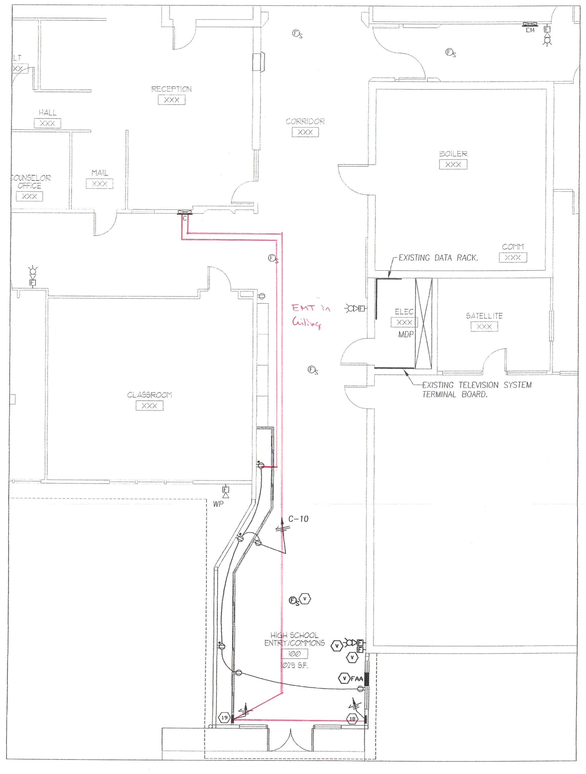
N.T.S.



1 FLOOR PLAN

1/8" = 1'-0"

NORTH



2 ENTRY FLOOR PLAN-ALT.#1

1/8" = 1'-0"

NORTH

MECHANICAL EQUIPMENT CONNECTION SCHEDULE

HEX	DESCRIPTION	HP	KVA	PH.	VOLTS	C.	WIRE	CIRCUIT	REMARKS
1	HP-1		4.01	1	208	3/4"	2-#10,1-#10g	LC1-3,5	
2	HP-2		4.01	1	208	3/4"	2-#10,1-#10g	LC1-7,9	
3	HP-3		4.01	1	208	3/4"	2-#10,1-#10g	LC1-2,4	
4	HP-4		4.01	1	208	3/4"	2-#10,1-#10g	LC1-6,8	
5	HP-5		4.8	1	208	3/4"	2-#8,1-#10g	K-2,4	
6	FCU-1		7.53	1	208	1"	2-#6,1-#10g	J-8,11	
7	FCU-2		7.53	1	208	1"	2-#6,1-#10g	J-15,17	
8	FCU-3		7.53	1	208	1"	2-#6,1-#10g	J-21,23	
9	FCU-4		7.53	1	208	1"	2-#6,1-#10g	J-27,29	
10	FCU-5a		7.53	1	208	1"	2-#6,1-#10g	K-8,10	
11	FCU-5b		3.76	1	208	3/4"	2-#10,1-#10g	K-12,14	
12	EF-1		0.73	1	120	1/2"	2-#12,1-#12g	K-18	
13	EF-2		0.73	1	120	1/2"	2-#12,1-#12g	K-9	
14	HP-6		2.02	1	208	1/2"	2-#12, 1-#12g	D-33,35	ALT.#2. ON ROOF
15	FCU-6		2.27	1	208	1/2"	2-#12, 1-#12g	D-27,29	ALT.#2.
16	FCU-7		0.75	1	208	1/2"	2-#12, 1-#12g	D4-33,35	
17	FCU-8		0.75	1	208	1/2"	2-#12, 1-#12g	D4-30,32	
18	EH-1		4.5	1	208	3/4"	2-#10, 1-#10g	C-33,35	ALT. #1.
19	EH-2		4.5	1	208	3/4"	2-#10, 1-#10g	C-37,39	ALT. #1.
20	CU-1		3.32	1	208	3/4"	2-#10, 1-#10g	D4-38,40	ON ROOF.

GENERAL NOTES

1. COORDINATE PLACEMENT OF ELECTRICAL EQUIPMENT WITH MECHANICAL EQUIPMENT TO PREVENT SPACE USE CONFLICTS.
2. SEE SHEET #E3.02 FOR ADDITIONAL LIGHTING FIXTURES.

KEY NOTES

HEX NOTES:

(B) PROVIDE AND INSTALL A NEW TELEVISION RECEPTACLE IN A SURFACE MOUNTED WIREMOLD OUTLET BOX.

(C) PROVIDE AND INSTALL INSTALL A SURFACE MOUNTED ACCESS BOX OVER THE EXISTING OUTLET. PROVIDE AND INSTALL A NEW RECEPTACLE. PROVIDE NEW WIREMOLD #700 FEED TO NEW SURFACE MOUNTED RECEPTACLE.

(G) PROVIDE FOR CONTINUATION OF CIRCUITRY AND SYSTEM FUNCTIONS AS REQUIRED FOR CONTINUED USE. PROVIDE FOR OPENING IN CABINET FOR ACCESS TO DEVICE AS NEEDED.

(H) HOME RUN CIRCUIT AS SHOWN SHALL BE SAVED FOR USE. ALL EXISTING CONDUIT AND WIRE MAY BE USED IN PLACE IF APPLICABLE, BUT SHALL NOT BE RE-USED ONCE REMOVED FROM ORIGINAL INSTALLATION.

(J) EXISTING RELOCATED TELEVISION OUTLET. EXTEND AND RECONNECT THE EXISTING SYSTEM CIRCUITRY COMPLETE. SEE SHEET #E1.01 FOR EXISTING LOCATION.

(S) PROVIDE FOR CONTINUATION OF CIRCUITRY AND SYSTEM FUNCTIONS AS REQUIRED FOR CONTINUED USE. PROVIDE FOR EXTENSION OF CIRCUIT TO RE-FEED DEVICE ON CIRCUIT AS SHOWN.

(T) EQUIPMENT INSTALLED IN ATTIC MECHANICAL SPACE. VERIFY INSTALLATION LOCATION PRIOR TO ROUGH-IN.

(U) ELECTRICAL FEEDERS FROM THE 'LC' PANEL TO THE CONDENSING UNIT SHALL BE UNDERGROUND. SEE 'CONDENSING UNIT CONDUIT DETAIL', ON SHEET #E3.01.

(V) RELOCATED EXISTING FIRE ALARM DEVICE. EXTEND EXISTING CIRCUITRY COMPLETE TO NEW LOCATION. SEE SHEET #E1.01 FOR EXISTING LOCATION.

(W) REMOVE THE EXISTING RECEPTACLE . PROVIDE AND INSTALL A BLANK STAINLESS STEEL COVER PLATE AT THE EXISTING SURFACE MOUNTED ACCESS BOX. EXTEND THE EXISTING CIRCUITRY IN SURFACE MOUNTED WIREMOLD #700 AND CONNECT COMPLETE TO THE NEW SURFACE MOUNTED RECEPTACLES INSTALLED ABOVE THE NEW CABINETRY. PROVIDE AN OPENING IN THE CABINETRY TO PROVIDE ACCESSIBILITY TO THE SURFACE MOUNTED ACCESS BOX.

(X) PROVIDE AND INSTALL A NEW RECEPTACLE IN A SURFACE MOUNTED WIREMOLD OUTLET BOX.

(Y) REMOVE THE EXISTING RECEPTACLE AND PROVIDE AND INSTALL A SURFACE MOUNTED ACCESS WITH A BLANK STAINLESS STEEL COVERPLATE. EXTEND THE EXISTING CIRCUITRY IN SURFACE WIREMOLD #700 AND CONNECT COMPLETE TO THE NEW SURFACE MOUNTED RECEPTACLES INSTALLED ABOVE THE NEW CABINETRY. PROVIDE AN OPENING IN THE CABINETRY TO PROVIDE ACCESSIBILITY TO THE SURFACE MOUNTED ACCESS BOX.

(FF) RELOCATE AND RE-INSTALL THE EXISTING FIRE ALARM DEVICE. EXTEND AND RECONNECT THE EXISTING SYSTEM CIRCUITRY COMPLETE.

JFC ARCHITECTS inc.
1106 DOUGLAS
SUITE G
LONGVIEW, WA 98632
WA: (360) 425-3030
FAX:(360) 425-2525

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DESCRIPTION	REV	DATE

ADDITIONS AND MODERNIZATIONS TO PE ELL ELEMENTARY, MIDDLE AND HIGH SCHOOLS

PE ELL SCHOOL DISTRICT NO. 301

PE ELL, WASHINGTON

SEAL:

DONALD D. ATHAY — STATE OF WASHINGTON — PROFESSIONAL ENGINEER

EXPIRES APRIL 5, 2008

JOB NUMBER: 2006.004

SHEET NUMBER: E3.01

CONTENTS: ELECTRICAL POWER

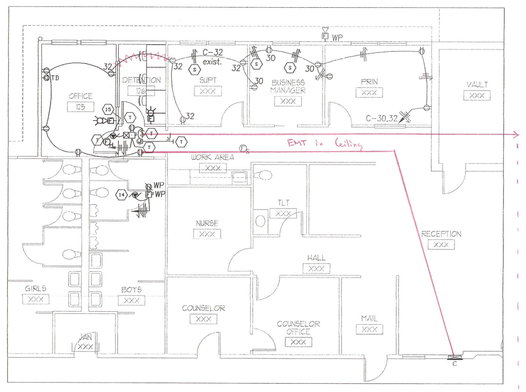
DATE: 09/29/06

BID SET

A&A
ATHAY & ASSOC. INC.
CONSULTING ELECTRICAL ENGINEERS
9013 HWAY 99 - SUITE 'R'
VANCOUVER, WA. 98665
(360)574-0188 (800)326-2484
fax: (360)574-0208
e-mail: rathay@athayeng.com



1 FLOOR PLAN
1/8" = 1'-0"
NORTH



2 OFFICE/DETENTION ROOM ADDITION FLOOR PLAN ALT.-#2
1/8" = 1'-0"
NORTH

GENERAL NOTES

1. COORDINATE PLACEMENT OF ELECTRICAL EQUIPMENT WITH MECHANICAL EQUIPMENT TO PREVENT SPACE USE CONFLICTS.
2. SEE SHEET #E3.02 FOR ADDITIONAL LIGHTING FIXTURES.

KEY NOTES

HEX NOTES:

(B) PROVIDE AND INSTALL A NEW TELEVISION RECEPTACLE IN A SURFACE MOUNTED WIREMOLD OUTLET BOX.

(C) PROVIDE AND INSTALL INSTALL A SURFACE MOUNTED ACCESS BOX OVER THE EXISTING OUTLET. PROVIDE AND INSTALL A NEW RECEPTACLE. PROVIDE NEW WIREMOLD #700 FEED TO NEW SURFACE MOUNTED RECEPTACLE.

(G) PROVIDE FOR CONTINUATION OF CIRCUITRY AND SYSTEM FUNCTIONS AS REQUIRED FOR CONTINUED USE. PROVIDE FOR OPENING IN CABINET FOR ACCESS TO DEVICE AS NEEDED.

(H) HOME RUN CIRCUIT AS SHOWN SHALL BE SAVED FOR USE. ALL EXISTING CONDUIT AND WIRE MAY BE USED IN PLACE IF APPLICABLE, BUT SHALL NOT BE RE-USED ONCE REMOVED FROM ORIGINAL INSTALLATION.

(J) EXISTING RELOCATED TELEVISION OUTLET. EXTEND AND RECONNECT THE EXISTING SYSTEM CIRCUITRY COMPLETE. SEE SHEET #E1.01 FOR EXISTING LOCATION.

(S) PROVIDE FOR CONTINUATION OF CIRCUITRY AND SYSTEM FUNCTIONS AS REQUIRED FOR CONTINUED USE. PROVIDE FOR EXTENSION OF CIRCUIT TO RE-FEED DEVICE ON CIRCUIT AS SHOWN.

(T) EQUIPMENT INSTALLED IN ATTIC MECHANICAL SPACE. VERIFY INSTALLATION LOCATION PRIOR TO ROUGH-IN.

(U) ELECTRICAL FEEDERS FROM THE 'LC' PANEL TO THE CONDENSING UNIT SHALL BE UNDERGROUND. SEE 'CONDENSING UNIT CONDUIT DETAIL', ON SHEET #E3.01.

(V) RELOCATED EXISTING FIRE ALARM DEVICE. EXTEND EXISTING CIRCUITRY COMPLETE TO NEW LOCATION. SEE SHEET #E1.01 FOR EXISTING LOCATION.

(W) REMOVE THE EXISTING RECEPTACLE . PROVIDE AND INSTALL A BLANK STAINLESS STEEL COVER PLATE AT THE EXISTING SURFACE MOUNTED ACCESS BOX. EXTEND THE EXISTING CIRCUITRY IN SURFACE MOUNTED WIREMOLD #700 AND CONNECT COMPLETE TO THE NEW SURFACE MOUNTED RECEPTACLES INSTALLED ABOVE THE NEW CABINETRY. PROVIDE AN OPENING IN THE CABINETRY TO PROVIDE ACCESSIBILITY TO THE SURFACE MOUNTED ACCESS BOX.

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(FF) RELOCATE AND RE-INSTALL THE EXISTING FIRE ALARM DEVICE. EXTEND AND RECONNECT THE EXISTING SYSTEM CIRCUITRY COMPLETE.

ATHAY & ASSOC. INC.
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9013 HWAY 99 - SUITE 'R'
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DESCRIPTION	REV	DATE

ADDITIONS AND MODERNIZATIONS TO PE ELL ELEMENTARY, MIDDLE AND HIGH SCHOOLS

PE ELL SCHOOL DISTRICT NO. 301
PE ELL, WASHINGTON

SEAL: DONALD D. ATHAY, REGISTERED PROFESSIONAL ENGINEER, STATE OF WASHINGTON
EXPIRES APRIL 5, 2008

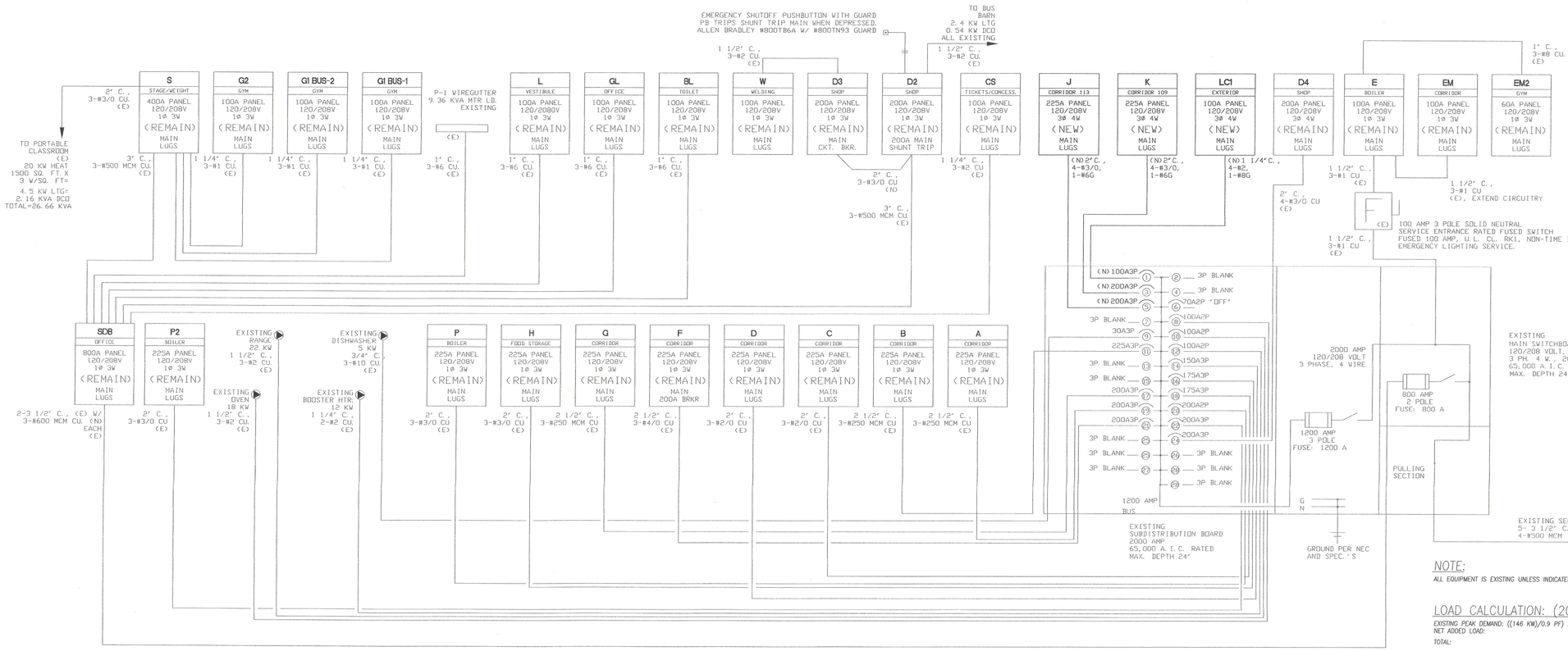
JOB NUMBER: 2006.004

SHEET NUMBER: E3.02

CONTENTS: ELECTRICAL POWER

DATE: 09/29/06

BID SET



1 ONELINE DIAGRAM
NTS

NOTE:
ALL EQUIPMENT IS EXISTING UNLESS INDICATED OTHERWISE BY (N)= NEW.

LOAD CALCULATION: (2006 REMODEL)

EXISTING PEAK DEMAND: ((146 KW)/0.9 PF) X 1.25 =	202.8 KVA
NET ADDED LOAD:	109.09 KVA
TOTAL:	311.89 KVA (866.84 AMPS)

PANEL SCHEDULE — J — CORRIDOR 113
225A BUSS 120/208v 3ph 4w — MAIN (LUGS)

NO	T	DESCRIPTION	KVA	BKR		BKR	KVA	DESCRIPTION	T	NO
1	L	LTG- ELEMENTARY C.R.- 121, 122	1.12	20A	A	20A	1.08	DCD- ELEMENTARY C.R.- 121	D	2
3	L	LTG- ELEMENTARY C.R.- 121, 122	1.12	20A	B	20A	1.08	DCD- ELEMENTARY C.R.- 121, 122	D	4
5	L	LTG- ELEMENTARY C.R.- 123, 124	1.12	20A	C	20A	1.08	DCD- ELEMENTARY C.R.- 121, 122	D	6
7	L	LTG- ELEMENTARY C.R.- 123, 124	1.12	20A	A	20A	1.08	DCD- ELEMENTARY C.R.- 122	D	8
9	H	FCU-1	7.53	60A	B	20A	0.72	DCD- ELEMENTARY C.R.- 123	D	10
11				2P	C	20A	1.08	DCD- ELEMENTARY C.R.- 123, 124	D	12
13	D	FCU-1 OCD	0.18	20A	A	20A	1.08	DCD- ELEMENTARY C.R.- 123, 124	D	14
15	H	FCU-2	7.53	60A	B	20A	1.08	DCD- ELEMENTARY C.R.- 124	D	16
17				2P	C	20A	0.73	EF-1	W	18
19	D	FCU-2 OCD	0.18	20A	A	20A	0.25	LTG- EXTERIOR	L	20
21	H	FCU-3	7.53	60A	B	20A	0.25	LTG- MECHANICAL ATTIC SPACE	L	22
23				2P	C	20A		SPARE C.B.		24
25	D	FCU-3 OCD	0.18	20A	A	20A		SPARE C.B.		26
27	H	FCU-4	7.53	60A	B	20A		SPARE C.B.		28
29				2P	C	20A		SPARE C.B.		30
31	D	FCU-4 OCD	0.18	20A	A	20A		SPARE C.B.		32
33		BLANK			A			BLANK		34
35		BLANK			B			BLANK		36
37		BLANK			C			BLANK		38
39		BLANK			A			BLANK		40
41		BLANK			B			BLANK		42

LOAD CALCULATION

LIGHTING	4.99	
LTG @ 125%		6.24
MOTORS	0.73	0.73
LARGEST @ 25%		0.18
OUTLETS	9.00	9.00
DEDICATED OUTLETS		0.00
DEMAND OUTLETS@50%		
KITCHEN	0.00	
DEMAND KITCHEN		0.00
HEAT	30.12	30.12
MISCELLANEOUS	0.00	0.00
WELDERS		
CONNECTED KVA	44.84	124.56
DEMAND KVA		128.53

CIRCUIT BREAKER CODES
S = S=SHUNT TRIP BREAKERS
* = *=EXISTING C.B. -- ALL OTHERS NEW
SPARE = CIRCUIT BREAKER
BLANK = C.B. POSITION
K = KITCHEN
L = LIGHTING
M = MOTORS
O = OUTLETS
H = HEAT
X = MISCELLANEOUS
W = WELDERS
TC = 0 DEDICATED OUTLETS
K = 0 DEMAND KITCHEN

AMP 246.07 NEW PANEL

PANEL SCHEDULE — LC1 — LOCATION: EXTERIOR
225A BUSS 120/208v 3ph 4w — MAIN (LUGS)

NO	T	DESCRIPTION	KVA	BKR		BKR	KVA	DESCRIPTION	T	NO
1	D	DCD- EXTERIOR	0.18	20A	A	35A	4.01	HP-3	X	2
3	X	HP-1	4.01	35A	B	2P				4
5				2P	C	35A	4.01	HP-4	X	6
7	X	HP-2	4.01	35A	A	2P				8
9				2P	B			BLANK		10
11		SPARE C.B.		20A	C			BLANK		12
13		SPARE C.B.		20A	A			BLANK		14
15		SPARE C.B.		20A	B			BLANK		16
17		SPARE C.B.		20A	C			BLANK		18
19		SPARE C.B.		20A	A			BLANK		20
21		SPARE C.B.		20A	B			BLANK		22
23		SPARE C.B.		20A	C			BLANK		24
25		SPARE C.B.		20A	A			BLANK		26
27		BLANK			B			BLANK		28
29		BLANK			C			BLANK		30
31					A			BLANK		32
33					B			BLANK		34
35					C			BLANK		36
37					A			BLANK		38
39					B			BLANK		40
41					C			BLANK		42

LOAD CALCULATION

LIGHTING	0.00	
LTG @ 125%		0.00
MOTORS	0.00	0.00
LARGEST @ 25%		0.00
OUTLETS	0.18	0.18
DEDICATED OUTLETS		0.00
DEMAND OUTLETS@50%		
KITCHEN	0.00	
DEMAND KITCHEN		0.00
HEAT	0.00	0.00
MISCELLANEOUS	16.04	16.04
WELDERS		
CONNECTED KVA	16.22	45.08
DEMAND KVA		45.08

CIRCUIT BREAKER CODES
S = S=SHUNT TRIP BREAKERS
* = *=EXISTING C.B. -- ALL OTHERS NEW
SPARE = CIRCUIT BREAKER
BLANK = C.B. POSITION
K = KITCHEN
L = LIGHTING
M = MOTORS
O = OUTLETS
H = HEAT
X = MISCELLANEOUS
W = WELDERS
TC = 0 DEDICATED OUTLETS
K = 0 DEMAND KITCHEN

AMP NEW PANEL

PANEL SCHEDULE — D — LOCATION: CORRIDOR
225A BUSS 120/208v 1ph 3w — MAIN (LUGS)

NO	T	DESCRIPTION	KVA	BKR		BKR	KVA	DESCRIPTION	T	NO
1		(E)LTG CANOPY		20AP	A	20AP		(E)SPARE		2
3		(E)SPARE		20AP	B	20AP		(E)LTG H41		4
5		(E)LTG H42		20AP	C	20AP		(E)DCD H41		6
7		(E)DCD H42		20AP	A	20AP		(E)LTG H43, H44		8
9		(E)LTG H42, H43, H44		20AP	B	20AP		(E)LTG H41		10
11		(E)LTG H41		20AP	C	20AP		(E)LTG H57, H40		12
13		(E)SPARE		20AP	A	20AP		(E)LTG LIBRARY		14
15		(E)SPARE		20AP	B	20AP		(E)SPARE		16
17		(E)SPARE		20AP	C	20AP		(E)DCD LIBRARY		18
19		(E)SPARE		20AP	A	20AP		(E)DCD H30, H32		20
21		(E)LTG H39		20AP	B	20AP		(E)DCD H39		22
23		(E)SPARE		20AP	C	20AP		(E)DCD H39		24
25		(E)SPARE		2P	A	20AP		(E)DCD H39		26
27	H	(N)FCU-6	3.03	25A	B	20AP		(E)DCD H39		28
29				2P	C	20A		(E)DCD H39		30
31	L	(N)FCU-6 OCD	0.18	20A	B	20AP		(E)SPARE		32
33	X	(N)HP-8	2.02	20A	A	20AP		(E)SPARE		34
35				2P	B	20AP		(E)SPARE		36
37	D	(N)DCD- HP-6	0.18	20A	A	20AP		(E)SPARE		38
39		(E)SPARE		20AP	B	20AP		(E)SPARE		40
41		(E)SPARE		20AP	A	20AP		(E)SPARE		42

LOAD CALCULATION

LIGHTING	0.18	
LTG @ 125%		0.23
MOTORS	0.00	0.00
LARGEST @ 25%		0.00
OUTLETS	0.18	0.18
DEDICATED OUTLETS		0.00
DEMAND OUTLETS@50%		
KITCHEN	0.00	
DEMAND KITCHEN		0.00
HEAT	3.03	3.03
MISCELLANEOUS	2.02	2.02
WELDERS		
CONNECTED KVA	5.41	25.76
DEMAND KVA		25.95

CIRCUIT BREAKER CODES
S = S=SHUNT TRIP BREAKERS
* = *=EXISTING C.B. -- ALL OTHERS NEW
SPARE = CIRCUIT BREAKER
BLANK = C.B. POSITION
K = KITCHEN
L = LIGHTING
M = MOTORS
O = OUTLETS
H = HEAT
X = MISCELLANEOUS
W = WELDERS
TC = 0 DEDICATED OUTLETS
K = 0 DEMAND KITCHEN

AMP 25.95 EXISTING PANEL
(E)=EXISTING LOAD,(N)=NEW LOAD.

PANEL SCHEDULE — D4 — LOCATION: SHOP AREA
200A BUSS 120/208v 3ph 4w — MAIN (LUGS)

NO	T	DESCRIPTION	KVA	BKR		BKR	KVA	DESCRIPTION	T	NO
1		(E)BLANK			A			(E)BLANK		2
3		(E)BLANK			B			(E)BLANK		4
5		(E)PC-27		20AP	C			(E)BLANK		6
7		(N)SPARE		20AP	A	20AP		(E)SMOKE EATER #1		8
9		(E)PC-29		20AP	B	20AP		(E)SPARE		10
11		(E)PC-30		20AP	C	20AP		(E)SPARE		12
13		(N)SPARE		20AP	A	20AP		(E)SMOKE EATER #2		14
15		(E)DCD-1		20AP	B	20AP		(E)SPARE		16
17				2P	C	20AP		(E)SPARE		18
19		(E)DCD ROOF TOP		20AP	A	20AP		(E)SPARE		20
21		(E)DF-19		20AP	B	20AP		(E)SPARE		22
23		(E)DF-37		20AP	C	20AP		(E)SPARE		24
25				2P	A	20AP		(E)SPARE		26
27		(E)DF-28		20AP	B	20AP	0.18	(N)FCU-8 OCD	D	28
29		(E)BLANK			C	20A	0.75	(N)FCU-8		30
31		(E)INT & UH2		2P	A	20AP				32
33	H	(N)FCU-7	0.75	20A	B	60AP		(E)DC-1 (DUST COLLECTOR)		34
35				2P	B	2P				36
37	D	(N)FCU-7 OCD	0.18	20A	A	30A	3.22	(N)CU-1	X	38
39		(E)BLANK			B	2P				40
41		(E)BLANK			A	20A	0.18	(N)DCD-CU-1	D	42

LOAD CALCULATION

LIGHTING	0.00	
LTG @ 125%		0.00
MOTORS	0.00	0.00
LARGEST @ 25%		0.00
OUTLETS	0.54	0.54
DEDICATED OUTLETS		0.00
DEMAND OUTLETS@50%		
KITCHEN	0.00	
DEMAND KITCHEN		0.00
HEAT	0.75	0.75
MISCELLANEOUS	3.22	3.22
WELDERS		
CONNECTED KVA	4.51	12.53
DEMAND KVA		12.53

CIRCUIT BREAKER CODES
S = S=SHUNT TRIP BREAKERS
* = EXISTING C.B. -- ALL OTHERS NEW -- (N) NEW LOAD
SPARE= CIRCUIT BREAKER
BLANK= C.B. POSITION
K = KITCHEN
L = LIGHTING
M = MOTORS
O = OUTLETS
H = HEAT
X = MISCELLANEOUS
W = WELDERS
TC = 0 DEDICATED OUTLETS
K = 0 DEMAND KITCHEN

AMP 12.53 EXISTING PANEL
(E)=EXISTING LOAD, (N)NEW LOAD.

PANEL SCHEDULE — K — LOCATION: CORRIDOR 109
225A BUSS 120/208v 3ph 4w — MAIN (LUGS)

NO	T	DESCRIPTION	KVA	BKR		BKR	KVA	DESCRIPTION	T	NO
1	L	LTG- BOYS 110, GIRLS 111	0.31	20A	A	20A	4.80	HP-5	X	2
3	L	LTG- MIDDLE SCHOOL COMMONS- 112	1.24	20A	B	2P				4
5	D	DCD- MIDDLE SCHOOL COMMONS- 112	1.08	20A	C	20A	0.18	FCU-5 OCD	D	6
7	D	DCD- CORRIDOR 129, EXTERIOR	0.36	20A	A	60A	7.53	FCU-5	X	8
9	W	(T-2	0.73	20A	B	2P				10
11	L	LTG- EXTERIOR	0.09	20A	C	25A	3.76	FCU-5	X	12
13	L	LTG- MECHANICAL ATTIC SPACE	0.12	20A	A	2P				14
15		SPARE C.B.		20A	B			BLANK		16
17		SPARE C.B.		20A	C			BLANK		18
19		SPARE C.B.		20A	A			BLANK		20
21		SPARE C.B.		20A	B			BLANK		22
23		SPARE C.B.		20A	C			BLANK		24
25		SPARE C.B.		20A	A			BLANK		26
27		BLANK			B			BLANK		28
29		BLANK			C			BLANK		30
31		BLANK			A			BLANK		32
33		BLANK			B			BLANK		34
35		BLANK			C			BLANK		36
37		BLANK			A			BLANK		38
39		BLANK			B			BLANK		40
41		BLANK			C			BLANK		42

LOAD CALCULATION

LIGHTING	1.76	
LTG @ 125%		2.20
MOTORS	0.73	0.73
LARGEST @ 25%		0.18
OUTLETS	1.62	1.62
DEDICATED OUTLETS		0.00
DEMAND OUTLETS@50%		
KITCHEN	0.00	
DEMAND KITCHEN		0.00
HEAT	0.00	0.00
MISCELLANEOUS	16.09	16.09
WELDERS		
CONNECTED KVA	20.20	56.11
DEMAND KVA		57.84

CIRCUIT BREAKER CODES
S = S=SHUNT TRIP BREAKERS
* = *=EXISTING C.B. -- ALL OTHERS NEW
SPARE = CIRCUIT BREAKER
BLANK = C.B. POSITION
K = KITCHEN
L = LIGHTING
M = MOTORS
O = OUTLETS
H = HEAT
X = MISCELLANEOUS
W = WELDERS
TC = 0 DEDICATED OUTLETS
K = 0 DEMAND KITCHEN

AMP NEW PANEL

PANEL SCHEDULE — C — LOCATION: CORRIDOR
225A BUSS 120/208v 1ph 3w — MAIN (LUGS)

NO	T	DESCRIPTION	KVA	BKR		BKR	KVA	DESCRIPTION	T	NO
1		(E)LTG H8		20AP	A	20AP		(E)DCD H33, H31, H12, H11, H10		2
3		(E)LTG H8		20AP	B	20AP		(E)DCD H19, H13, H14		4
5	L	(N)LTG HIGH SCHOOL ENTRY COMMONS	1.18	20AP	A	20AP		(E)LTG H26	L	6
7		(E)LTG H24 & H25		20AP	B	20AP		(E)DCD H27	L	8
9		(E)LTG H24		20AP	A	20AP	1.08	(N)DCD HIGH SCHOOLS ENTRY COMMONS	D	10
11		(E)LTG H27		20AP	B	20AP		(E)LTG OFFICE AREA		12
13		(E)BREAKER BOARD		20AP	A	20AP		(E)LTG OFFICE AREA		14
15		(E)MERCURY VAPOR AT BEADER BOARD		20AP	B	20AP		(E)LTG CORRIDOR H28		16
17		(E)LTG CORRIDOR H4		20AP	A	20AP		(E)LTG LIBRARY H33		18
19		(E)LTG LIBRARY H33		20AP	B	20AP		(E)LTG LIBRARY H33		20
21		(E)LTG LIBRARY H33		20AP	A	20AP		(E)EXISTING LOAD		22
23		(E)DCD H27		20AP	B	20AP		(E)DCD H24-H25		24
25		(E)DCD H27		20AP	A	20AP		(E)DCD H8		26
27		(E)DCD WATER COOLER		20AP	B	20AP		(E)DCD COPY MACHINE		28
29		(E)DCD H27		20AP	A	20AP		(E)DCD H15, H16, H17		30
31		(E)LTG ATTIC		20AP	B	20AP	1.44	(N)DCD- RMS. 125, 126, SUPP.	D	32
33	L	(N)EM-1	4.50	30A	A	20AP		(E)DCD SECRETARY'S DOUBLE DUPLEX		34
35				2P	B	20AP		(E)DCD RECEPTION WINDOW		36
37	H	(N)DH-2	4.50	30A	A	20AP		(E)DCD CLOCK/INTERCOM		38
39				2P	B	20AP		(E)DCD RECEPTION COUNTER		40
41		(E)SPARE		20AP	A	20AP		(E)DCD RECEPTION COUNTER		42

LOAD CALCULATION

LIGHTING	1.18	
LTG @ 125%		1.48
MOTORS	0.00	0.00
LARGEST @ 25%		0.00
OUTLETS	2.52	2.52
DEDICATED OUTLETS		0.00
DEMAND OUTLETS@50%		
KITCHEN	0.00	
DEMAND KITCHEN		0.00
HEAT	9.00	9.00
MISCELLANEOUS	0.00	0.00
WELDERS		
CONNECTED KVA	12.70	60.48
DEMAND KVA		61.88

CIRCUIT BREAKER CODES
S = S=SHUNT TRIP BREAKERS
* = *=EXISTING C.B. -- ALL OTHERS NEW
SPARE = CIRCUIT BREAKER
BLANK = C.B. POSITION
K = KITCHEN
L = LIGHTING
M = MOTORS
O = OUTLETS
H = HEAT
X = MISCELLANEOUS
W = WELDERS
TC = 0 DEDICATED OUTLETS
K = 0 DEMAND KITCHEN

AMP EXISTING PANEL
(E)=EXISTING LOAD, (N)=NEW LOAD.

PANEL SCHEDULE — 03 — LOCATION: SHOP AREA
200A BUSS 120/208v 1ph 3w — MAIN (LUGS)

NO	T	DESCRIPTION	KVA	BKR		BKR	KVA	DESCRIPTION	T	NO
1		(E)LTG SHOP		20AP	A	20AP		(E)LTG J14		2
3		(E)LTG SHOP		20AP	B	20AP	0.46	(N)LTG- RMS. 135, 137, 138	L	4
5		(E)LTG SHOP		20AP	A	20AP	1.70	(N)LTG- RMS. 135, 137, 139	L	6
7		(E)LTG SHOP		20AP	B	20AP	0.74	(N) LTG COMPUTERS 133	L	8
9		(E)LTG SHOP		20AP	A	20AP		(E)LTG J8		10
11		(E)SPARE		20AP	B	20AP		(N)SPARE		12
13		(E)SPARE		20AP	A	20AP		(E)DCD WELDING RM. SOUTH		14
15		(E)DCD SHOP		20AP	B	20AP		(E)SPARE		16
17		(E)DCD SHOP		20AP	A	20AP		(E)DCD SHOP CLASS RM. (J9)		18
19		(E)DCD J13		20AP	B	20AP		(E)DCD SHOP CLASS RM. (J9)		20
21		(E)DCD J13	1.26	20AP	A	20AP		(E)DCD SHOP CLASS RM. (J9)		22
23		(E)DCD J13	0.65	20AP	B	20AP	0.72	(N)POWER POLE- TECHNOLOGY C.R. J132	D	24
25		(E)DCD J13	1.08	20AP	A	20AP	0.72	(N)POWER POLE- TECHNOLOGY C.R. J132	D	26
27		(E)SPARE		20AP	B	20AP	0.72	(N)POWER POLE- TECHNOLOGY C.R. J132	D	28
29		(E)DCD J6		20AP	A	20AP		(E)SPARE		30
31		(E)DCD J6		20AP	B	20AP		(E)SPARE		32
33		(E)SPARE		20AP	A	20AP		(E)SPARE		34
35		(E)DCD COMPUTER ROOM		20AP	B	100AP		(E)BOYS BATH		36
37		(E)DCD COMPUTER ROOM		20AP	A	20AP				38
39		(N)DCD- COMPUTERS 133	0.90	20AP	B	20AP		(E)SPARE		40
41		(N)DCD- CLASS ROOM 139	0.72	20AP	A	2P				42

LOAD CALCULATION

LIGHTING	2.90	
LTG @ 125%		3.63
MOTORS	0.00	0.00
LARGEST @ 25%		0.00
OUTLETS	2.16	2.16
DEDICATED OUTLETS		0.00
DEMAND OUTLETS@50%		
KITCHEN	0.00	
DEMAND KITCHEN		0.00
HEAT	0.00	0.00
MISCELLANEOUS	0.00	0.00
WELDERS		
CONNECTED KVA	5.06	24.10
DEMAND KVA		27.55

CIRCUIT BREAKER CODES
S = S=SHUNT TRIP BREAKERS
* = *=EXISTING C.B. -- ALL OTHERS NEW
SPARE = CIRCUIT BREAKER
BLANK = C.B. POSITION
K = KITCHEN
L = LIGHTING
M = MOTORS
O = OUTLETS
H = HEAT
X = MISCELLANEOUS
W = WELDERS
TC = 0 DEDICATED OUTLETS
K = 0 DEMAND KITCHEN

AMP 5.79 EXISTING PANEL
(E)=EXISTING LOAD,(N)=NEW LOAD.

PANEL SCHEDULE — H — LOCATION: FOOD STORAGE
225A BUSS 120/208v 3ph 4w — MAIN (LUGS)

NO	T	DESCRIPTION	KVA	BKR		BKR	KVA	DESCRIPTION	T	NO
1		(E)LTG H45		20AP	A	20AP		(E)LTG H50, H51, H52, H53		2
3		(E)SPARE C.B.		20AP	B	20AP		(E)LTG H49		4
5		(E)LTG H48		20AP	C	20AP		(E)LTG H49		6
7		(E)LTG H48		20AP	A	20AP		(E)LTG H46		8
9		(E)LTG H46		20AP	B	20AP		(E)SPARE C.B.		10
11		(E)SPARE C.B.		20AP	C	20AP		(E)SPARE C.B.		12
13		(E)LTG EXTERIOR		20AP	A	20AP		(E)DCD H45		14
15		(E)DCD H48		20AP	B	20AP		(E)DCD H46		16
17		(E)DCD H45		20AP	A	20AP		(E)DCD H48		18
19		(E)DCD EXISTING		20AP	B	20AP		(E)DCD H46, H49		20
21		(E)DCD EXISTING		20AP	A	20AP		(E)DCD H50, H51		22
23	L	(N)LTG- CAFETERIA 128	0.65	20AP	B	20AP		(E)DCD MP RM.		24
25		(E)EF-3		20AP	A	20AP		(E)DCD MP RM.		26
27		(E)EF-10		20AP	B	20AP		(E)LTG MP RM.		28
29		(E)WELL-IN COOLER		20AP	C	20AP		(E)LTG MP RM.		30
31				20AP	A	20AP		(E)LTG MP RM.		32
33		(E)WELL-IN COOLER LTS.		20AP	B	20AP		(E)LTG MP RM.		34
35		(E)SPARE C.B.		20AP	C	20AP		(E)LTG MP RM.		36
37		(E)SPARE C.B.		20AP	A	20AP		(E)SPARE C.B.		38
39		(E)SPARE C.B.		20AP	B	20AP		(E)SPARE C.B.		40
41		(E)SPARE C.B.		20AP	C	20AP		(E)SPARE C.B.		42

LOAD CALCULATION

LIGHTING	0.65	
LTG @ 125%		0.81
MOTORS	0.00	0.00
LARGEST @ 25%		0.00
OUTLETS	0.00	0.00
DEDICATED OUTLETS		0.00
DEMAND OUTLETS@50%		
KITCHEN	0.00	
DEMAND KITCHEN		0.00
HEAT	0.00	0.00
MISCELLANEOUS	0.00	0.00
WELDERS		
CONNECTED KVA	0.65	1.81
DEMAND KVA		2.26

CIRCUIT BREAKER CODES
S = S=SHUNT TRIP BREAKERS
* = *=EXISTING C.B. -- ALL OTHERS NEW -- (N) NEW LOAD
SPARE= CIRCUIT BREAKER
BLANK= C.B. POSITION
K = KITCHEN
L = LIGHTING
M = MOTORS
O = OUTLETS
H = HEAT
X = MISCELLANEOUS
W = WELDERS
TC = 0 DEDICATED OUTLETS
K = 0 DEMAND KITCHEN

AMP 1.81 AMP EXISTING PANEL.
2.26 AMP (E)=EXISTING LOAD, (N)=NEW LOAD.

JFC ARCHITECTS inc.
1106 DOUGLAS
SUITE G
LONGVIEW, WA 98632
WA: (360) 425-3030
FAX:(360) 425-2525

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DESCRIPTION	REV	DATE

ADDITIONS AND MODERNIZATIONS TO
PE ELL ELEMENTARY, MIDDLE AND HIGH SCHOOLS
PE ELL SCHOOL DISTRICT NO. 301
PE ELL, WASHINGTON

SEAL:
DONALD L. ATHEY
STATE OF WASHINGTON
20009
REGISTERED PROFESSIONAL ENGINEER
EXPIRES APRIL 5, 2008

JOB NUMBER: 2006.004

SHEET NUMBER: E4.01

CONTENTS: ELECTRICAL ONELINE

DATE: 09/29/06

BID SET

A&A
ATHAY & ASSOC. INC.
CONSULTING
ELECTRICAL ENGINEERS
9013 HWAY 99 - SUITE 'F'
VANCOUVER, WA. 98665
(360)574-0789 (800)299-3466
fax (360)574-0898
e-mail rathey@athey-eng.com



NOTE:

THE SECURITY CAMERA/MONITOR SYSTEM SHALL BE PROVIDED COMPLETE AND OPERABLE. PROVIDE ALL REQUIRED EQUIPMENT, WIRING, TERMINATIONS, POWER SUPPLIES, CUTTING & PATCHING, ETC.

1 CAMERA LOCATIONS FLOOR PLAN
1/16" = 1'-0"

NORTH

JFC ARCHITECTS inc.
1106 DOUGLAS
SUITE G
LONGVIEW, WA 98632
WA: (360) 425-3030
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DESCRIPTION	REV	DATE

ADDITIONS AND MODERNIZATIONS TO PE ELL ELEMENTARY, MIDDLE AND HIGH SCHOOLS

PE ELL SCHOOL DISTRICT NO. 301
PE ELL, WASHINGTON

SEAL:
RONALD D. ATHAY
STATE OF WASHINGTON
REGISTERED PROFESSIONAL ENGINEER
EXPIRES APRIL 5, 2008

JOB NUMBER: 2006.004

SHEET NUMBER: E5.00

CONTENTS: CAMERA LOCATIONS

DATE: 09/29/06

BID SET

A&A
ATHAY & ASSOC. INC.
CONSULTING
ELECTRICAL ENGINEERS
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VANCOUVER, WA. 98665
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