INFINITI

INFINITI of Ardmore
306 W Lancaster Avenue
Ardmore, Pennsylvania 19003
LOWER MERION TOWNSHIP MONTGOMERY COUNTY

RENOVATION / ADDITION

LEGEND

ADJ	ADJUSTABLE	MIN.	MINIMUM	USGS	U.S. GEOLOGICAL SURVEY
AGL	ABOVE GROUND LEVEL	MTL.	METAL	WWF	WELDED WIRE FABRIC
AMSL	ABOVE MEAN SEA LEVEL	NIC	NOT IN CONTRACT	A-1	ANTENNA MARK NUMBER
APPROX.	APPROXIMATE	NTS	NOT TO SCALE	(E)	EXISTING
CAB	CABINET	OC	ON CENTER	(N)	NEW
CONC.	CONCRETE	OHP	OVERHEAD POWER	(P)	PROPOSED
CONT.	CONTINUOUS	OHT	OVERHEAD TELCO	℄	CENTERLINE
CONST	CONSTRUCTION	PWR.	POWER	℔	PLATE
COAX	COAXIAL	SF	SQUARE FOOT	B/W	BARBED WIRE
CJ	CONSTRUCTION JOINT	SHT	SHEET	C/L	CHAINLINK
DIA	DIAMETER	SIM	SIMILAR	ø	DIAMETER
DTL	DETAIL	SS	STAINLESS STEEL	H	HEIGHT
DWG	DRAWING	STL	STEEL	W	WIDTH
EA.	EACH	TELCO	TELEPHONE COMPANY	D	DEPTH
ELEC.	ELECTRIC	TO	TOP OF	W/	WITH
ELEV.	ELEVATION	TYP.	TYPICAL		
EQ.	EQUAL	UON	UNLESS OTHERWISE NOTED		
EQUIP	EQUIPMENT	VERT	VERTICAL		
EXT.	EXTERIOR	VIF	VERIFY IN FIELD		
FF	FINISH FLOOR	XFMER	TRANSFORMER		
FTG.	FOOTING				
GA	GAUGE				
GALV	GALVANIZED				
GC	GENERAL CONTRACTOR				
GRND	GROUND				
HORIZ	HORIZONTAL				
INT.	INTERIOR				
LG.	LONG				
MAX.	MAXIMUM				
MFG	MANUFACTURER				

2 / S-1 — SECTION NUMBER / SHEET NUMBER — DRAWING SECTION

4 / S-1 — SECTION NUMBER / SHEET NUMBER — DETAIL

5 / E-1 — SECTION NUMBER / SHEET NO. — DETAIL ENLARGEMENT

2 — REVISION NUMBER

DATUM ELEVATION

MATCH LINE

(TB) TEST BORING
(WP) WORK POINT
(DP) DATUM POINT

CAST IN PLACE OR PRE-CAST CONCRETE

LIGHT WEIGHT CONCRETE

EARTH: UNDISTURBED

EARTH: BACK FILL

CRUSHED STONE, GRAVEL OR POROUS FILL

PLASTER CEMENT, SAND, GROUT

ROCK OR STONE

RIGID INSULATION

STEEL

METAL, ALUMINUM, ETC.

CONCRETE MASONRY UNIT

BRICK

DRAWING INDEX

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ARCHITECTURAL
- DA-1 ARCHITECTURAL DEMOLITION PLAN
- A-1 DELIVERY / PREP AREA FLOOR PLAN
- A-2 GALLERY / SALES AREA FLOOR PLAN
- A-3 GALLERY / SALES AREA REFLECTED CEILING PLAN
- A-4 FRONT ELEVATIONS
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- A-6 BUILDING SECTION
- A-7 ROOM FINISH, WINDOW AND DOOR SCHEDLUES
- A-8 PARTITION TYPES AND INTERIOR DETAILS
- A-9 BREAK AREA, BEVERAGE CENTER & RESTROOMS
- A-10 ROOF PLAN & DETAILS
- A-11 ROOF DETAILS & ELEVATOR DETAILS
- A-12 SPECIFICATIONS

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- F-1 FURNITURE - GALLERY / SALES AREA LAYOUT PLAN

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- S-4 STRUCTURAL - TYPICAL DETAILS & NOTES
- S-5 STRUCTURAL - DETAILS & NOTES
- S-6 STRUCTURAL - WALL SECTIONS
- S-7 STRUCTURAL - WALL SECTIONS
- S-8 STRUCTURAL - WALL SECTIONS

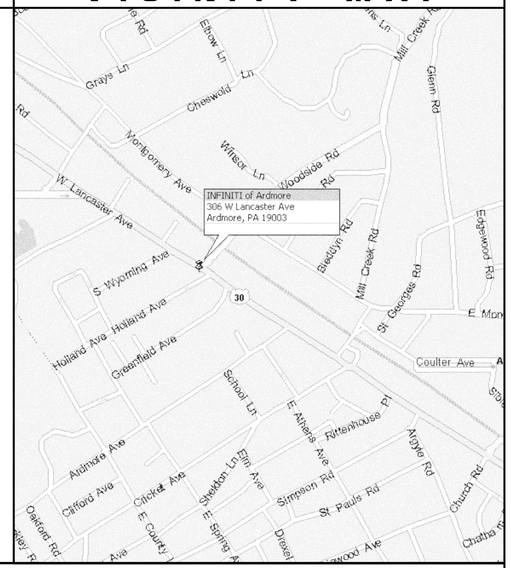
MECHANICAL
- DM-1 MECHANICAL - DEMOLITION PLAN
- M-1 MECHANICAL - NEW WORK PLAN
- M-2 MECHANICAL - SCHEDULES
- M-3 MECHANICAL - SPECIFICATIONS

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- DP-1 PLUMBING - DEMOLITION PLAN
- P-1 PLUMBING - NEW WORK PLAN, RISER DIAGRAM & DETAILS
- P-2 PLUMBING - SPECIFICATIONS

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- FP-1 FIRE PROTECTION - NEW WORK PLAN

ELECTRICAL
- E-1 ELECTRICAL - DELIVERY / PREP AREA LIGHTING PLAN
- E-2 ELECTRICAL - GALLERY / SALES AREA LIGHTING PLAN
- E-3 ELECTRICAL - DELIVERY / PREP AREA POWER PLAN
- E-4 ELECTRICAL - GALLERY / SALES AREA POWER PLAN
- E-5 ELECTRICAL - EXTERIOR LIGHTING PLAN
- E-6 ELECTRICAL - EXTERIOR LIGHT LEVELS
- E-7 ELECTRICAL - SCHEDULES, NOTES, DETAILS & SPECIFICATIONS

VICINITY MAP



GENERAL NOTES

1. Field Conditions - Contractor shall verify all conditions, as well as all dimensions and conditions indicated in the drawings, prior to actual construction. Any variations from conditions indicated in the drawings shall be brought to the attention of the architect and owner's representative prior to commencing work.

2. Coordination of Work - The character and scope of the work are illustrated by the working drawings. Contractor shall carefully examine the drawing and shall be responsible for the proper installation of his work and proper consideration for the work of others and existing construction. Do not place ducts, piping, conduit or any obstruction so as to impair required ceiling heights and clearance for lighting fixture, etc. Contractors shall be responsible for the protection of existing adjacent tenant's and facilities.

3. Building Codes and Regulations - All work shall conform to all governing codes and regulations. Contractor shall file, pay and obtain all required permits to perform the work. Upon completion of the work, contractor shall obtain all required approvals form governmental agencies involved prior to final payment. Approvals to occupy the space by local building officials shall be obtained prior to dealership opening.

4. Insurance
A. Contractor shall secure, pay for and maintain, during construction and fixture work within leased premises, all of the insurance policies required and in the amount as set forth herein. Contractor shall not commence any work until all required certificates of such insurance have been delivered to the building owner.

Certificates of Insurance shall cover all work performed by him and each of his subcontractors and all major suppliers.

B. General contractor's and subcontractor's require minimum coverage and limits of liability:

1) Workmen's Compensation Insurance - In accordance with the governing laws with a limit of not less than $500,000. And any insurance required by any employee.

Benefits Acts, etc., as will protect the contractor and subcontractors from any and all liability.

2) Contractor shall pay for and furnish to owner certificates of insurance which will protect said contractor from claims (I) under workmen's compensation acts and other employee benefit acts, with limit of not less than $1,000,000. (II) for damages because of bodily injury, (including death) to his employees and all others, with the limits of $1,000,000 per person and $1,000,000 per occurrence and (III) for damages to property with limits to contractor's work under this contract whether such work (including operation of automobile vehicles) be by himself or others directly or indirectly employed by either and builder's risk insurance in the full amount of the contract sum.

C. Indemnification - To the fullest extent permitted by law, the contractor shall indemnify and hold harmless the owner, and the architect and their agents and employees from and against all claims, damages, losses and expenses including, but not limited to, attorney's fees, arising out of or resulting from the performance of the work, provided that any such claim, damage, loss or expense (I) is attributable to bodily injury or to distruction of tangible property (other than the work itself) including the loss of use resulting therefrom, and (2) is caused in whole or in part by the negligent act or omission of the contractor, and subcontractor, anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable, regardless of whether or not is is caused in part by a party indemnified hereunder.

5. Lien Waivers and Sworn Affidavits - Contractor shall furnish to owner within 30 days after completion, final, waivers of lien for all work for all work performed and from all subcontractors and major suppliers.

6. Certificate of Occupancy - Contractor will provide a copy of the certificate prior to turning space over to the owner.

7. Quality Standards - All such work shall be performed in a First-class workman-like manner and shall be in good and useable condition at the date of completion. Contractor shall guarantee all work performed to be free from any and all defects in workmanship and materials for one (1) year from the date all construction punch list items have been completed and acceptance has been confirmed in writing by the owner's representative.

Contractor shall be responsible for the replacement or repair without any additional charge for any and all work done or furnished which shall become defective within this one (1) year period. The correction of such work and damages in connection with such removal, replacement or repair of any part of the work which may be damaged or disturbed thereby.

All warranties or guarantees as to materials or workmanship on or with respect to owner's work shall be contained in the contract or subcontract which shall be so written that such guarantee or warrantees shall insure to the benefit of the owner, as their respective interest appear and can directly be enforced by either.

8. Rubber Wheel Carts - Contractor carts, equipment boxes, etc., must be equipped with rubber wheels.

9. Fire Extinguishers - Furnished and installed by contractor - 10 #ABC: (1) at electric panel and (1) in the Break Room. Contractor to verify with Fire Department.

10. Rubbish Removal - Contractor shall be responsible for daily removal from the project, all trash, rubbish and surplus materials resulting from construction, fixturing and merchandising of the demised premises. Coordinate removal of debris with owner.

11. Temporary Utilities - Contractor shall arrange for temporary utilities, as required, and shall pay the utility charges.

12. All work that is either implied or reasonably inferrable from the contract documents, drawings and specifications, shall be the responsibility of the contractor. All drawings and specifications are directed to the attention of the contractor and the inclusion of any work by mention, note, detail, itemization or implication, however brief, means that the contractor shall provide and install same. All work performed shall include all appurtenances and apparatus normally deemed to be part of a complete package within the definitions of normal industry standards.

Building Information:
INFINITI of Ardmore
306 W. Lancaster Avenue
Ardmore, PA 19003

Owner Contact Info:
Joseph Bush Jr.
610-642-9000 ext. 110

General Contractor:
Frank Mariani, Inc.
1479 Wilmington Pike
West Chester, PA 19382

General Manager Contact Info:
Frank Mariani
610-322-2285

Architect Information:
Betzwood Associates PC
Architects & Engineers
523 Kimberton Road, Ste. 11B
Phoenixville, PA 19460

Architect Contact Info:
Edward Happ (Project Manager)
610 917-8831 ext. 17

Electrical Engineer Contact Info:
Ned Corbett (Project Engineer)
610 917-8831 ext. 11

Structural Engineer Contact Info:
Jeff Thoms, P.E. (Project Engineer)
610 917-8831 ext. 25

Mechanical Engineer Information:
NE Fisher & Associates
329 East Second Street
Boyertown, PA 19512

Mechanical Engineer Contact Info:
Ryan Schwab, P.E. (Project Engineer)
610 369-3190

Building Information:
- Primary Building Code - UNIFORM CONSTRUCTION CODE / PENNSYLVANIA IBC 2006
- Building Height - 2 Story
- Type of Construction per IBC - 3B
- IBC Use Group - B
- Lower Merion Township - Zoned C2 (Commercial District)
- Tenant Square Footage - Existing = 3,108 s.f.
  Addition = 4,354 s.f.
  Total = 7,462 s.f.
- Means of Egress Required - 2 Provided - 3
- Building Allowable Area per Table 503 - B / 38,000 s.f. & 4 Stories (per Section 506.3).
- Fire Resistance Rating for Building Type - 3B (IBC Table 601)
  - Structural Frame - 0 HR
  - Bearing Walls Exterior - 2 HR
  - Bearing Walls Interior - 0 HR
  - Floor Construction - 0 HR
  - Roof Construction - 0 HR
- Interior Walls & Finish Classifications (Table 803.5)
  B Use (Display / Sales / Vehicle Prep)
  - Exist Enclosures & passageways - B
  - Corridors - C
  - Room and Enclosed Spaces - C
- Automatic Sprinklers are not required in Use Groups B (IBC 903.2).
  Building will be Fully Suppressed (Sprinklered).
- Minimum Egress Width
  - Stairways - 22.5 inches (0.3 x Occupant Load - table 1005.1)
    38" Clear Provided (44" Wide Stairs)
  - Doors - 15 inches (0.2 x Occupant Load - table 1005.1)
    34" Clear Provided (36" Door)
- Tenant Occupancy Load - 75 (sq.ft./100 per IBC table 1004.1.1)
- Accessible means of egress - 1 Required / Area (Section 1007.1) Provided - ALL
- Maximum Egress Travel Distance - less than 100 ft. (Allowed 300 ft. per Table 1016.1)
- Means of Egress Required - 2 (per Table 1019.1) Provided - 4

FINAL 07/22/2008
ISSUED FOR CONSTRUCTION

Betzwood Associates PC
Architects & Engineers
Robin J. Kohn, AIA — Regis W. Kubit, PE
523 Kimberton Road, Suite 11B Phoenixville, PA 19460
tel. (610) 917-8831 fax (610) 917-8836
email mail@betzwood.com http://www.betzwood.com

Robin J. Kohn AIA
Commonwealth of Pennsylvania
License No. RA-11327-X
MECHANICAL ENGINEER

N.E. FISHER & ASSOCIATES
Mechanical & Electrical Engineers
329 East Second Street
Boyertown, Pennsylvania 19512
(610) 369 - 3190

Project No.
3213

CONTRACTOR

Frank Mariani, Inc.
1479 Wilmington Pike
West Chester, PA 19382
T. 610 322 - 2285 F. 610 675 - 7109

Contact Person:
Edward M. Happ
(610) 917-8831

PROJECT NO.	DRAWN BY	CHK'D BY
B2610	EMH	EMH

NO.	DATE	BY	ISSUE
1	11-16-07	EMH	ISSUED FOR PERMIT
2	01-11-08	EMH	ISSUED FOR CONSTRUCTION
3	02-18-08	EMH	REVISED ADA & EXT. LIGHTING CONDITIONS (ELEVATOR)
4	05-14-08	EMH	CONSTRUCTION REVISION
5	07-18-08	EMH	ELECTRICAL REVISIONS & PERMIT SUBMISSION
6			
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APPROVED BY: Robin J. Kohn, AIA — CURRENT DATE: July 18, 2008

INFINITI of Ardmore
306 W Lancaster Avenue
Ardmore, Pennsylvania 19003

LOWER MERION TOWNSHIP
MONTGOMERY COUNTY

SHEET TITLE

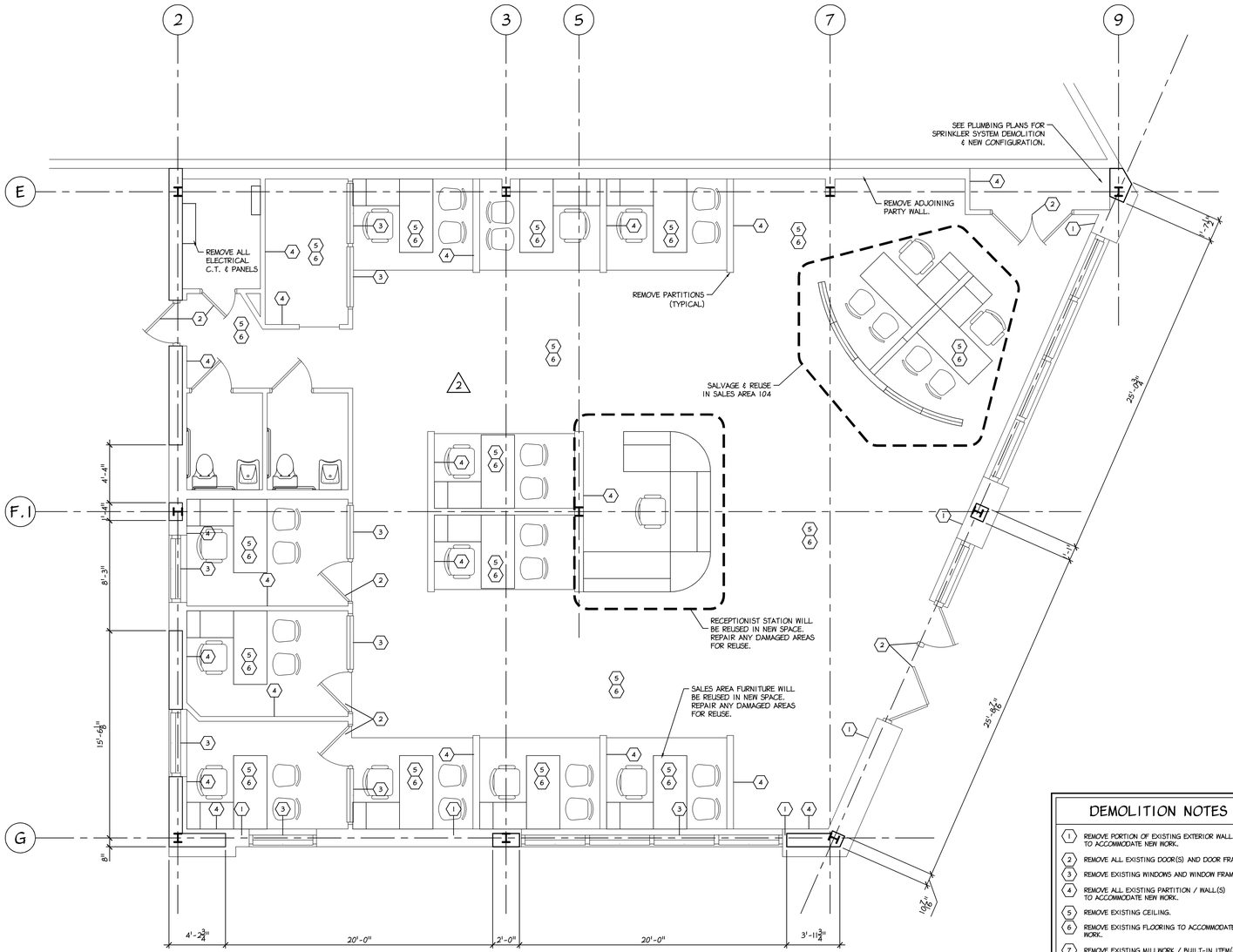
TITLE SHEET

SHEET NUMBER

T-1

REV 5

07-18-08
2610c-SHEET1.dwg



1 DA-1 ARCHITECTURAL DEMOLITION PLAN
Scale: 1/4"=1'-0"

DEMOLITION NOTES

1. REMOVE PORTION OF EXISTING EXTERIOR WALL(S) TO ACCOMMODATE NEW WORK.
2. REMOVE ALL EXISTING DOOR(S) AND DOOR FRAMES.
3. REMOVE EXISTING WINDOWS AND WINDOW FRAMES.
4. REMOVE ALL EXISTING PARTITION / WALL(S) TO ACCOMMODATE NEW WORK.
5. REMOVE EXISTING CEILING.
6. REMOVE EXISTING FLOORING TO ACCOMMODATE NEW WORK.
7. REMOVE EXISTING MILLWORK / BUILT-IN ITEM(S) TO ACCOMMODATE NEW WORK.

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CURRENT DATE: July 18, 2008

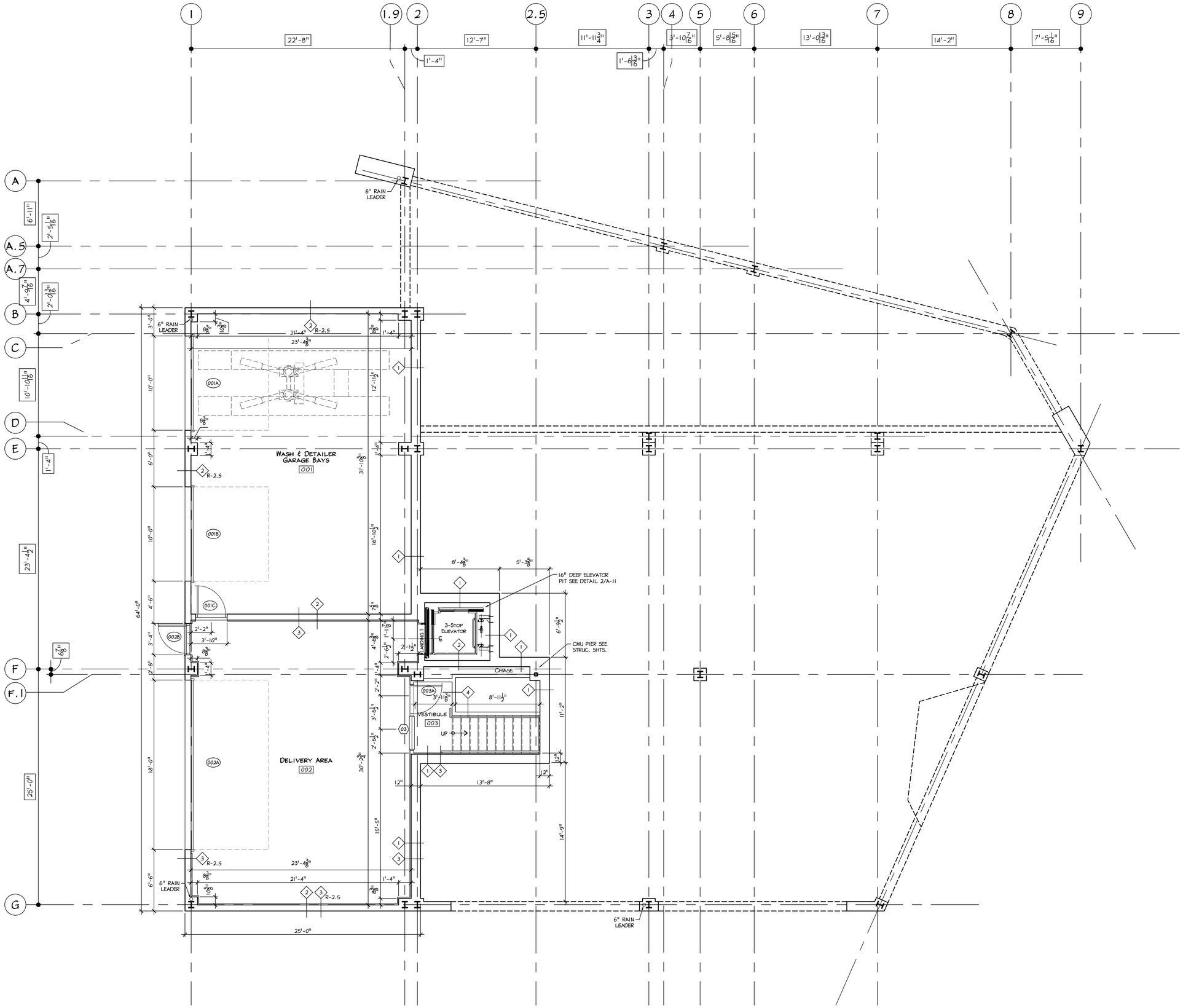
INFINITI of Ardmore
306 W Lancaster Avenue
Ardmore, Pennsylvania 19003

LOWER MERION TOWNSHIP
MONTGOMERY COUNTY

SHEET TITLE
ARCHITECTURAL DEMOLITION PLAN

SHEET NUMBER
DA-1
REV 5

2610c-SIdSht.dwg
07-18-08



1 A-1 DELIVERY / PREP FLOOR PLAN
Scale: 1/4"=1'-0"

FINAL 07/22/2008
ISSUED FOR CONSTRUCTION

2610c-SHEET.dwg
07-18-08

Betzwood AssociatesPC
Architects & Engineers
Robin J. Kohn, AIA
Regis W. Kubit, PE

REGISTERED ARCHITECT COMMONWEALTH OF PENNSYLVANIA ROBIN J. KOHN RA-11327-X

523 Kimberton Road, Suite 11B Phoenixville, PA 19460
tel (610) 917-8831 fax (610) 917-8836
email mail@betzwood.com http//www.betzwood.com

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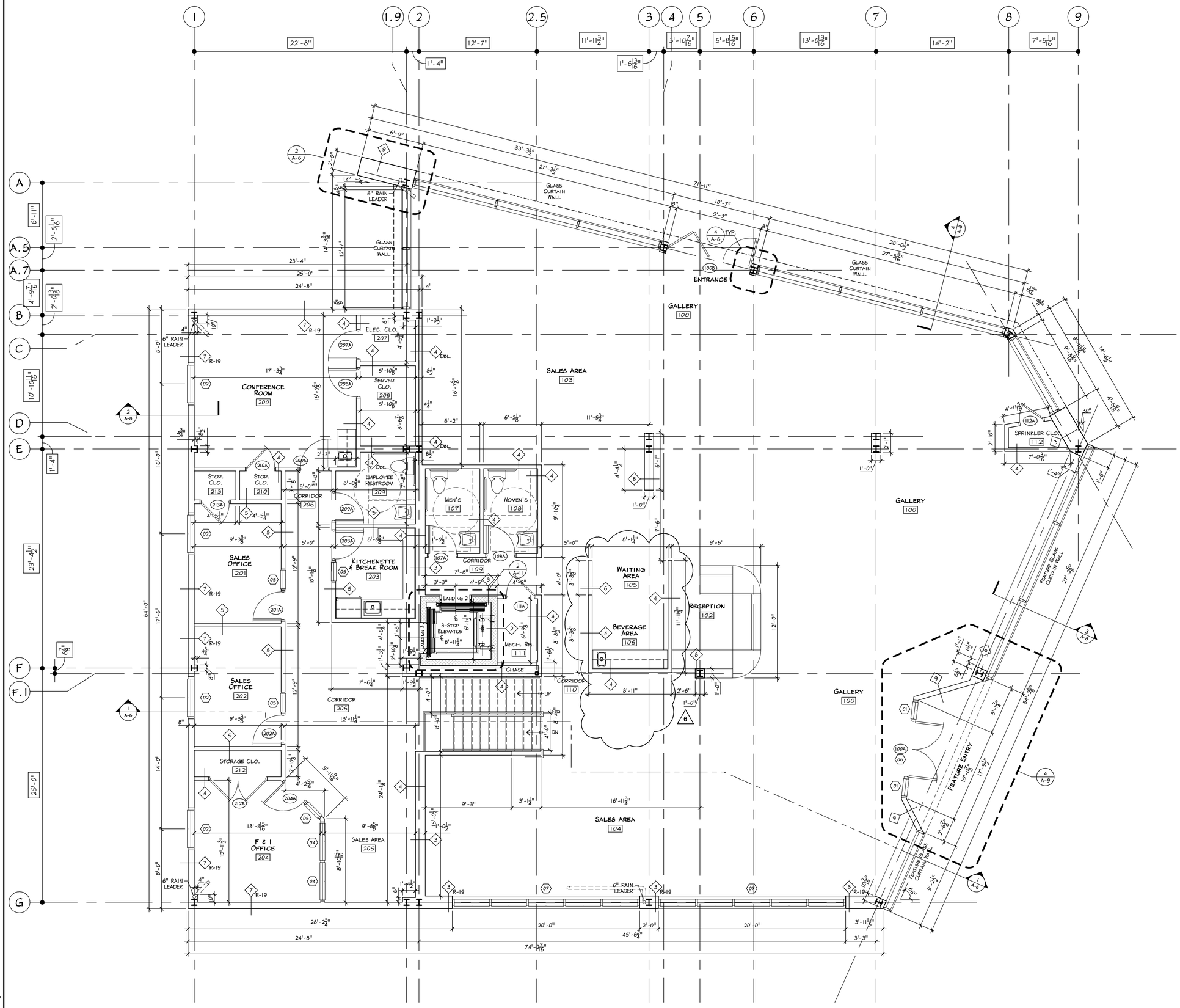
APPROVED BY: Robin J. Kohn, AIA
CURRENT DATE: July 18, 2008

INFINITI of Ardmore
306 W Lancaster Avenue
Ardmore, Pennsylvania 19003

LOWER MERION TOWNSHIP
MONTGOMERY COUNTY

SHEET TITLE
DELIVERY / PREP FLOOR PLAN

SHEET NUMBER
A-1
REV 5



1 A-2 GALLERY / SALES AREA / MEZZANINE FLOOR PLAN
Scale: 1/4"=1'-0"

FINAL 08/15/2008
ISSUED FOR CONSTRUCTION

Betzwood Associates PC
Architects & Engineers
Robin J. Kohn, AIA
Regis W. Kubie, PE

REGISTERED ARCHITECT COMMONWEALTH OF PENNSYLVANIA ROBIN J. KOHN RA-11327-X

523 Kimberton Road, Suite 11B Phoenixville, PA 19460
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email mail@betzwood.com http//www.betzwood.com

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5	07-18-08	EMH	ELECTRICAL REVISIONS & PERMIT SUBMISSION
6	08-15-08	EMH	OWNER REVISED PLAN
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APPROVED BY	CURRENT DATE
Robin J. Kohn, AIA	August 15, 2008

INFINITI of Ardmore
306 W Lancaster Avenue
Ardmore, Pennsylvania 19003

LOWER MERION TOWNSHIP
MONTGOMERY COUNTY

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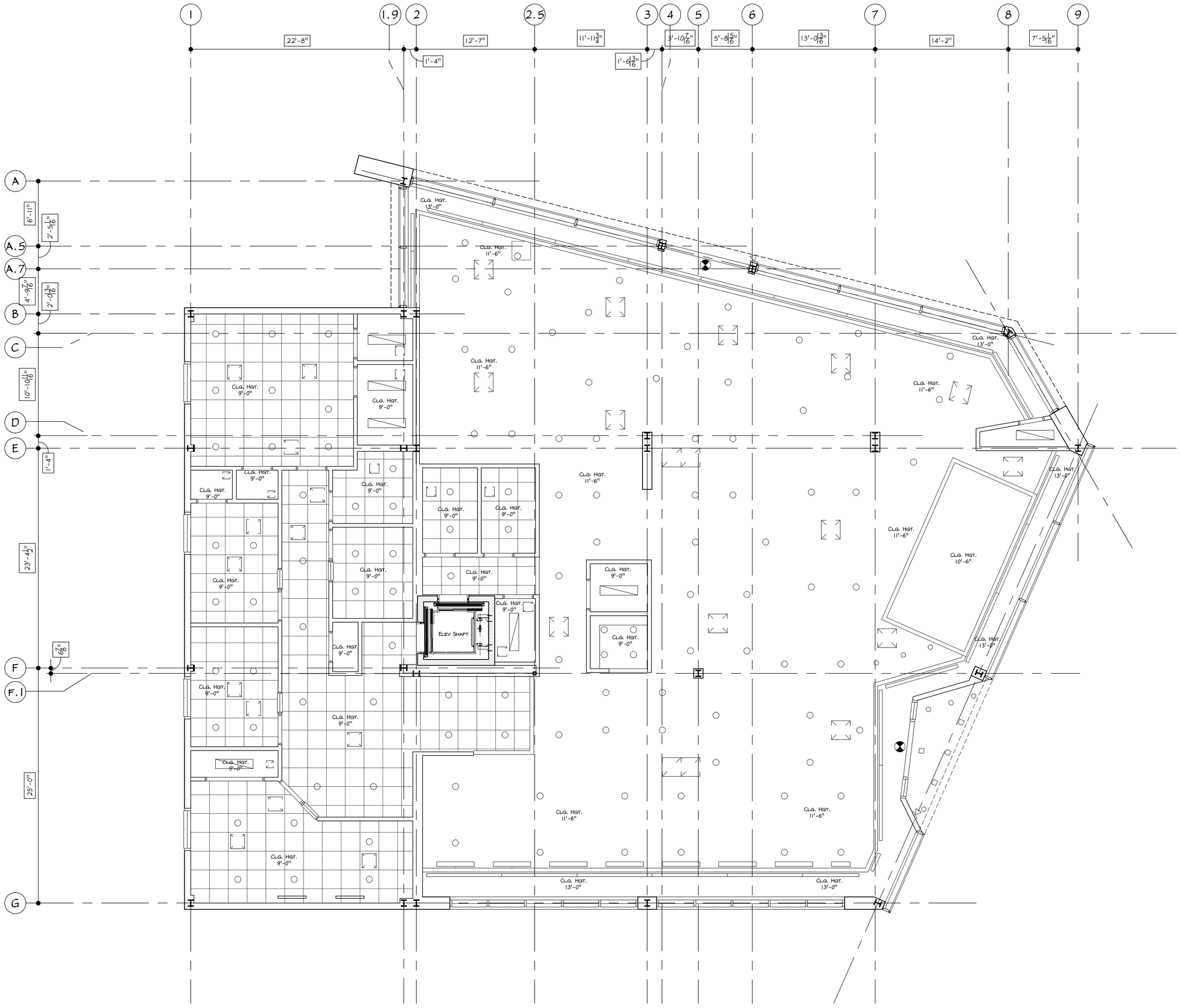
GALLERY / SALES AREA / MEZZANINE FLOOR PLAN

SHEET NUMBER

A-2

REV 6

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08-15-08



1 A-3 RELECTED CEILNG PLAN
Scale: 1/4"=1'-0"

FINAL 07/22/2008
ISSUED FOR CONSTRUCTION

2610c-3rdSH.dwg
07-18-08

Betzwood AssociatesPC
Architects & Engineers
Robin J. Kohn, AIA
Regis W. Kubit, PE

REGISTERED ARCHITECT COMMONWEALTH OF PENNSYLVANIA ROBIN J. KOHN RA-11327-X

523 Kimberton Road, Suite 11B Phoenixville, PA 19460
tel (610) 917-8831 fax (610) 917-8836
email mail@betzwood.com http//www.betzwood.com

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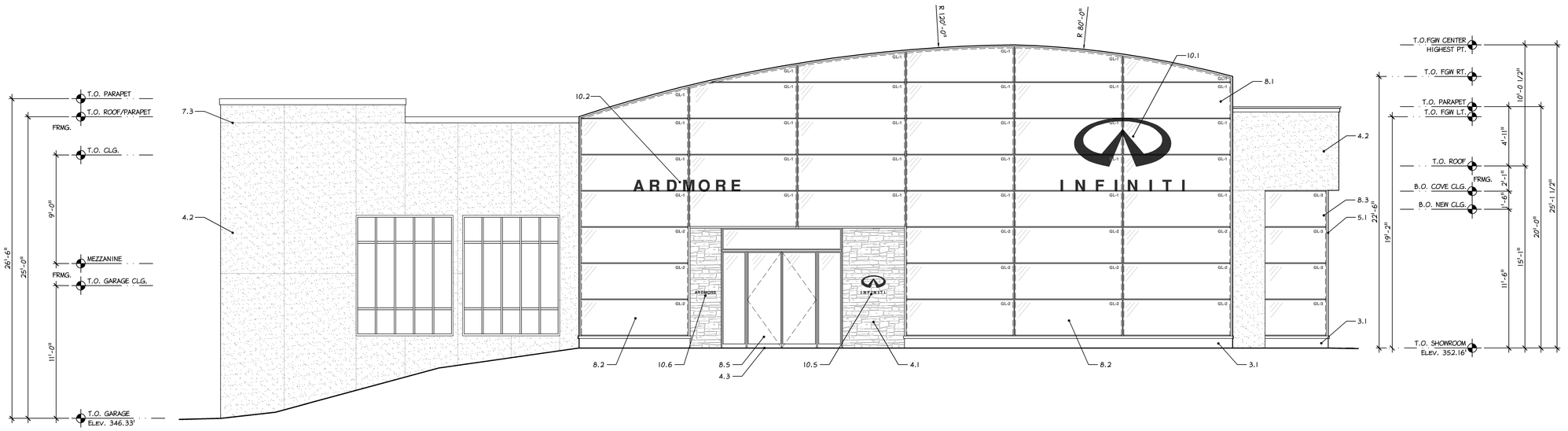
APPROVED BY: Robin J. Kohn, AIA
CURRENT DATE: July 18, 2008

INFINITI of Ardmore
306 W Lancaster Avenue
Ardmore, Pennsylvania 19003

LOWER MERION TOWNSHIP
MONTGOMERY COUNTY

SHEET TITLE
REFLECTED CEILING PLAN

SHEET NUMBER
A-3
REV 5



1 A-4 **FEATURE ENTRY ELEVATION**
Scale: 1/4"=1'-0"

EXTERIOR BUILDING SIGNAGE

MAIN BRAND SYMBOL	MAIN DEALER NAME LETTERING
8'-0" [8x]	ARDMORE 15" [1] 11'-3" [9x]
.75x MAIN BRAND SYMBOL	.75x MAIN DEALER NAME LETTERING
6'-0" [6x]	ARDMORE 12" [1] 9'-0" [9x]
.25x MAIN BRAND SYMBOL	.25x MAIN DEALER NAME LETTERING
1'-6" [6x]	ARDMORE 3" [1] 2'-3" [9x]
	EXTERIOR DIRECTIONAL LETTERING SIGNAGE

ELEVATION KEYNOTES

3.0 CONCRETE
- 3.1 EXPOSED SMOOTH FINISHED CONCRETE (VERT)
- 3.2 STAMPED CONCRETE (HORIZ)
- 3.3 X

4.0 MASONRY
- 4.1 NMI - NATIVE SANDSTONE RANDOM ASHLER PATTERN
- 4.2 EIFS - SAND / BEIGE COLOR
- 4.3 STONE TILE 2:1 (NATIVE STONE)

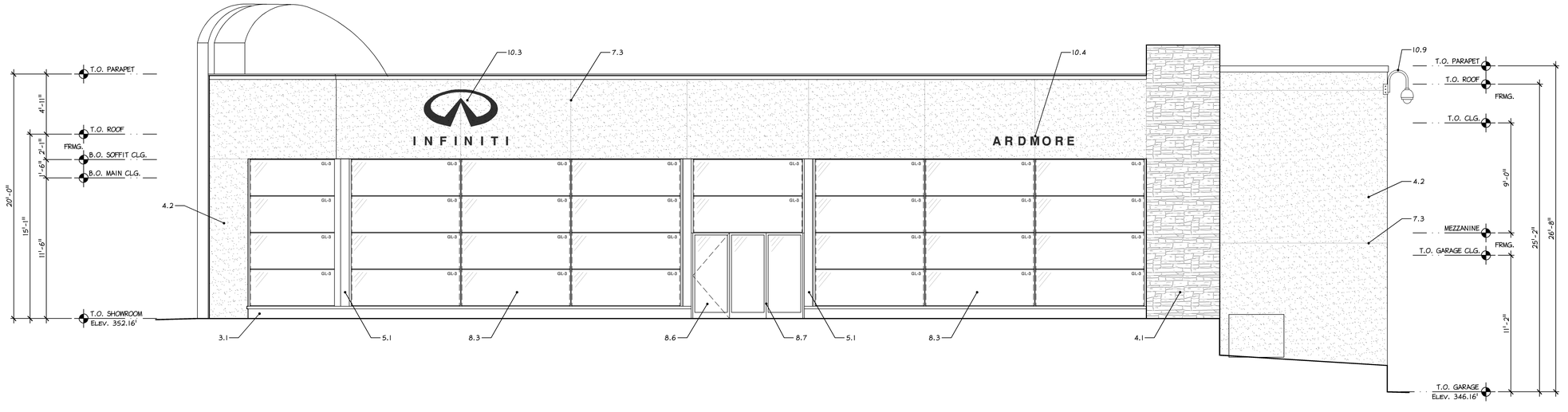
5.0 METALS
- 5.1 ALUMINUM TRIM PANELS (MATCH CURTAIN WALL)
- 5.2 X

6.0 WOODS AND PLASTICS
- 6.1 X
- 6.2 X
- 6.3 X

7.0 THERMAL & MOISTURE PROTECTION
- 7.1 ROOF OVERFLOW SCUPPER
- 7.2 ALUMINUM PARAPET CAP FLASHING
- 7.3 EIFS EXPANSION JOINT (3/4")
- 7.4 4x6 DOWNSPOUT DISCHARGE

8.0 DOORS & WINDOWS
- 8.1 GL-1 INSULATED GLASS - CURTAIN WALL
- 8.2 GL-2 INSULATED GLASS - CURTAIN WALL
- 8.3 GL-3 INSULATED GLASS - CURTAIN WALL
- 8.4 CLEAR INSULATED GLASS ALUM WINDOW
- 8.5 FRAMELESS GLASS ENTRY DOOR & LITES
- 8.6 ALUM / INSULATED GLASS DOOR
- 8.7 ALUM / INSULATED GLASS BI-FOLD DOOR
- 8.8 ALUM / INSULATED GLASS OVERHEAD DOOR

10.0 SPECIALTIES
- 10.1 MAIN BRAND SYMBOL / WORDMARK SIGNAGE
- 10.2 MAIN DEALER NANE LETTERING SIGNAGE
- 10.3 .75x BRAND SYMBOL / WORDMARK SIGNAGE
- 10.4 .75x DEALER NANE LETTERING SIGNAGE
- 10.5 .25x BRAND SYMBOL / WORDMARK SIGNAGE
- 10.6 .25x DEALER NANE LETTERING SIGNAGE
- 10.7 EXTERIOR DIRECTIONAL LETTERING SIGNAGE
- 10.8 EXTERIOR JUNO POLARIS LIGHTING FIXTURE
- 10.9 EXTERIOR SECURITY CORNER CAMERA MOUNT



2 A-4 **GLASS ENTRY ELEVATION**
Scale: 1/4"=1'-0"

FINAL 07/22/2008
ISSUED FOR CONSTRUCTION

07-18-08 2610c-Sht04.dwg

Betzwood AssociatesPC
Architects & Engineers
Robin J. Kohn, AIA — Regis W. Kubit, PE
REGISTERED ARCHITECT PENNSYLVANIA ROBIN J. KOHN RA-11327-X
523 Kimberton Road, Suite 11B Phoenixville, PA 19460
tel. (610) 917-8831 fax (610) 917-8836
email mail@betzwood.com http://www.betzwood.com

Robin J. Kohn AIA
Commonwealth of Pennsylvania
License No. RA-11327-X

CONTRACTOR

Frank Mariani, Inc.
1479 Wilmington Pike
West Chester, PA 19382
T. 610 322 - 2285 F. 610 675 - 7109

Contact Person:
Edward M. Happ
(610) 917-8831

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B2610	EMH	EMH

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5	07-18-08	EMH	ELECTRICAL REVISIONS & PERMIT SUBMISSION
6			
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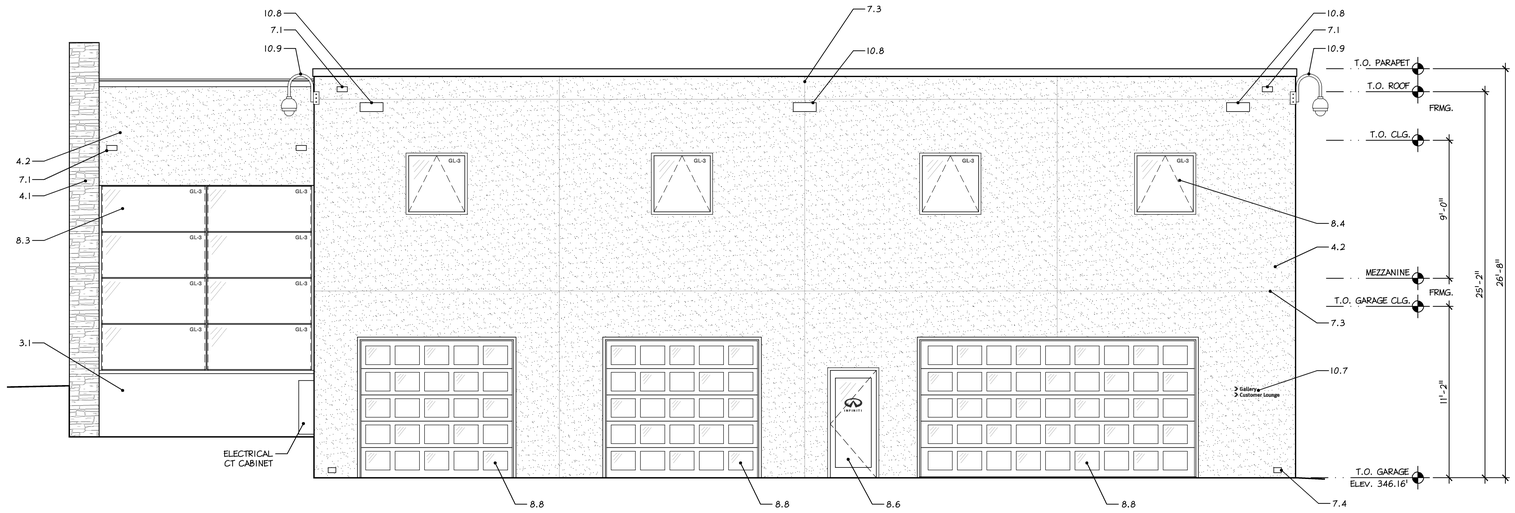
APPROVED BY	CURRENT DATE
Robin J. Kohn, AIA	July 18, 2008

INFINITI of Ardmore
306 W Lancaster Avenue
Ardmore, Pennsylvania 19003

LOWER MERION TOWNSHIP
MONTGOMERY COUNTY

SHEET TITLE
ELEVATIONS

SHEET NUMBER
A-4
REV 5



1 REAR ELEVATION
A-5 Scale: 1/4"=1'-0"

EXTERIOR BUILDING SIGNAGE

MAIN BRAND SYMBOL	MAIN DEALER NAME LETTERING
8'-0" [6x] 4'-0" [3x] 15" [1] INFINITI 11'-10 1/2" [9.5x] 15" [1]	ARDMORE 11'-3" [9x] 15" [1]
.75× MAIN BRAND SYMBOL	.75× MAIN DEALER NAME LETTERING
6'-0" [6x] 3'-0" [3x] 12" [1] INFINITI 9'-6" [9.5x] 12" [1]	ARDMORE 9'-0" [9x] 12" [1]
.25× MAIN BRAND SYMBOL	.25× MAIN DEALER NAME LETTERING
1'-6" [6x] 9" [3x] 3" [1] INFINITI 2'-4 1/2" [9.5x] 3" [1]	ARDMORE 2'-3" [9x] 3" [1]
	EXTERIOR DIRECTIONAL LETTERING SIGNAGE
	1 1/2" 2 3/4" Gallery Customer Lounge 1 1/2" 5'-6" TO F.F.L.

ELEVATION KEYNOTES

3.0 CONCRETE
- 3.1 EXPOSED SMOOTH FINISHED CONCRETE (VERT)
- 3.2 STAMPED CONCRETE (HORIZ)
- 3.3 X

4.0 MASONRY
- 4.1 NMI - NATIVE SANDSTONE RANDOM ASHLER PATTERN
- 4.2 EIFS - SAND / BEIGE COLOR
- 4.3 STONE TILE 2:1 (NATIVE STONE)

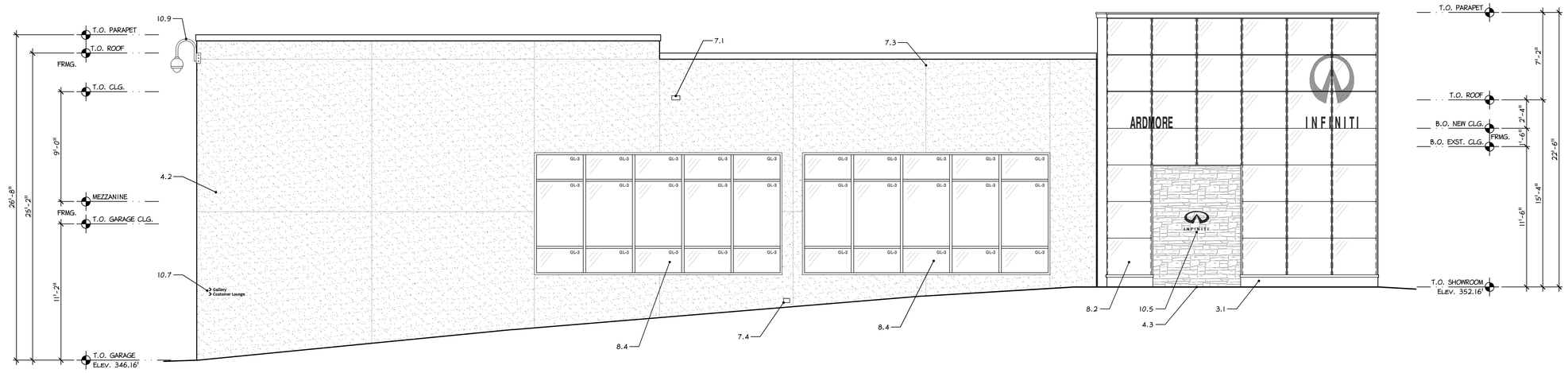
5.0 METALS
- 5.1 ALUMINUM TRIM PANELS (MATCH CURTAIN WALL)
- 5.2 X

6.0 WOODS AND PLASTICS
- 6.1 X
- 6.2 X
- 6.3 X

7.0 THERMAL & MOISTURE PROTECTION
- 7.1 ROOF OVERFLOW SCUPPER
- 7.2 ALUMINUM PARAPET CAP FLASHING
- 7.3 EIFS EXPANSION JOINT (3/4")
- 7.4 4x6 DOWNSPOUT DISCHARGE

8.0 DOORS & WINDOWS
- 8.1 GL-1 INSULATED GLASS - CURTAIN WALL
- 8.2 GL-2 INSULATED GLASS - CURTAIN WALL
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- 10.9 EXTERIOR SECURITY CORNER CAMERA MOUNT



2 SIDE ELEVATION
A-5 Scale: 1/4"=1'-0"

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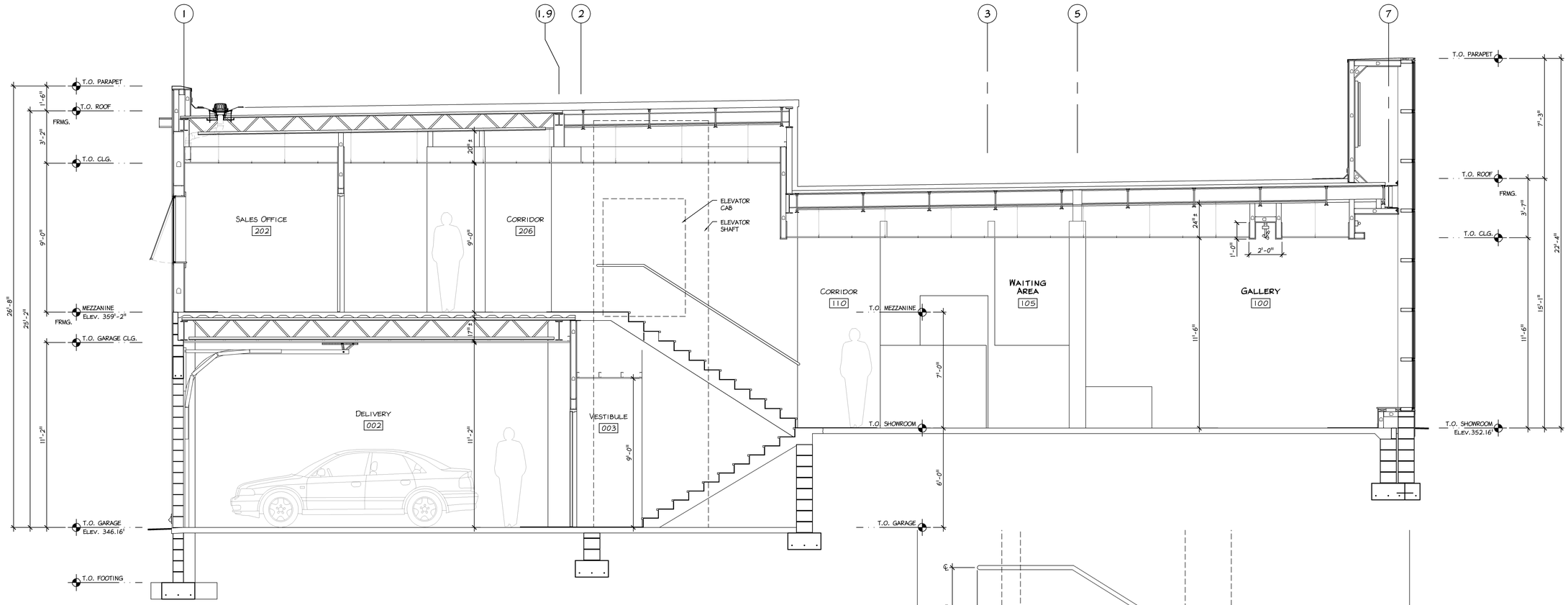
INFINITI of Ardmore
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LOWER MERION TOWNSHIP
MONTGOMERY COUNTY

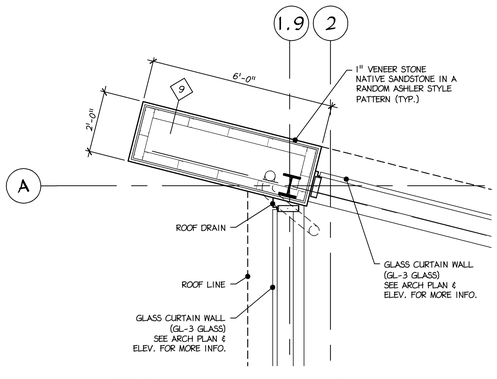
SHEET TITLE
ELEVATIONS

SHEET NUMBER
A-5
REV 5

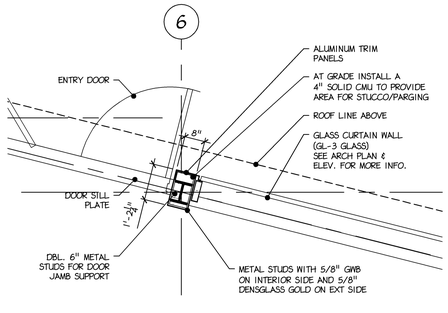
07-18-08 2610c-Sht5bl.dwg



1 BUILDING SECTION
A-6 Scale: 3/8"=1'-0"

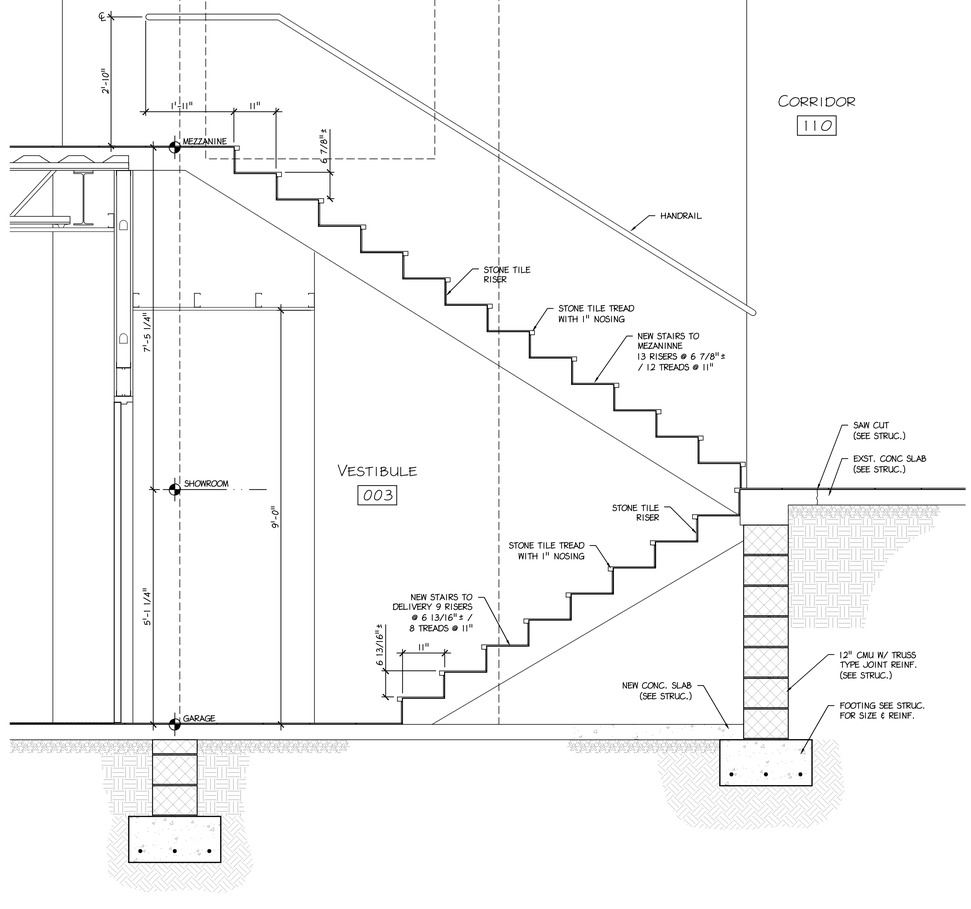


2 STONE COLUMN ENLARGED PLAN
A-6 Scale: 1/2"=1'-0"



4 STEEL COLUMN ENLARGED PLAN
A-6 Scale: 1/2"=1'-0"

3 ENLARGED MANAGERS AREA PLAN
A-6 Scale: 3/8"=1'-0"



4 ENLARGED STAIR SECTION
A-6 Scale: 3/4"=1'-0"

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306 W Lancaster Avenue
Ardmore, Pennsylvania 19003

LOWER MERION TOWNSHIP
MONTGOMERY COUNTY

SHEET TITLE
BUILDING SECTION

SHEET NUMBER
A-6

REV 5

2610c-SHEET.dwg
07-18-08

DOOR AND FRAME SCHEDULE

* UNDERCUT DOOR FOR RETURN AIR CIRCULATION

DOOR									FRAME							HDWR. SET NO.	FIRE RATING	SELF CLOSURE	PANIC HARDWARE	REMARKS
		SIZE									DETAILS									
FLR.	NO.	W	H	T	TYPE	MATL.	CORE	GLASS	TYPE	MATL.	HEAD	JAMB	SILL	WIDTH			LABEL			
GROUND	001A	10'-0"	9'-0"	-	F	MTL	INS	TEMP.	-	-	-	-	-	-		1				WASH & DETAILER GARGAE BAYS
GROUND	001B	10'-0"	9'-0"	-	F	MTL	INS	TEMP.	-	-	-	-	-	-		1				WASH & DETAILER GARGAE BAYS
GROUND	002A	18'-0"	9'-0"	-	F	MTL	INS	TEMP.	-	-	-	-	-	-		1				DELIVERY AREA GARGAE OVHD
GROUND	002B	3'-0"	7'-0"	1 3/4"	C	MTL/AL.	INS	TEMP.	2	AL.	2	1	4	5 7/8"		5		●		DELIVERY AREA
GROUND	003A	3'-0"	7'-0"	1 3/4"	C	MTL/AL.	INS	TEMP.	1	AL.	4	3	-	5 7/8"		3		●		VESTIBULE
FIRST	100A	6'-0"	7'-0"	1 3/4"	CC	MTL/SS	INS	TEMP.	3	SS	2	1	4	5 7/8"		3		●		FEATURE ENTRY
FIRST	100B	9'-0"	7'-0"	1 3/4"	CCC	MTL/AL.	INS	TEMP.	1	AL.	2	1	4	5 7/8"		2		●		ENTRANCE
FIRST	107A	3'-0"	7'-0"	1 3/4"	E	WD	SOLID	-	1	HM	4	3	-	5 7/8"		8		●		MENS ROOM
FIRST	108A	3'-0"	7'-0"	1 3/4"	E	WD	SOLID	-	1	HM	4	3	-	5 7/8"		8		●		WOMENS ROOM
FIRST	111A	3'-0"	7'-0"	1 3/4"	A	WD	SOLID	-	1	HM	4	3	-	5 7/8"		6				ELEVATOR MECH ROOM
FIRST	112A	3'-0"	7'-0"	1 3/4"	A	WD	SOLID	-	1	HM	4	3	-	5 7/8"		6				SPRINKLER CLO.
FIRST	113A	3'-0"	7'-0"	1 3/4"	A	WD	SOLID	-	1	HM	4	3	-	5 7/8"		6				STORAGE CLO.
MEZZ	200A	3'-0"	7'-0"	1 3/4"	A	WD	SOLID	-	1	HM	4	3	-	5 7/8"		4				BREAK ROOM
MEZZ	201A	3'-0"	7'-0"	1 3/4"	A	WD	SOLID	-	1	HM	4	3	-	5 7/8"		3				SALES OFFICE
MEZZ	202A	3'-0"	7'-0"	1 3/4"	A	WD	SOLID	-	1	HM	4	3	-	5 7/8"		3				SALES OFFICE
MEZZ	203A	3'-0"	7'-0"	1 3/4"	A	WD	SOLID	-	1	HM	4	3	-	5 7/8"		3				GEN. MANAGER OFFICE
MEZZ	204A	3'-0"	7'-0"	1 3/4"	A	WD	SOLID	-	1	HM	4	3	-	5 7/8"		6				F & I OFFICE
MEZZ	207A	3'-0"	7'-0"	1 3/4"	A	WD	SOLID	-	1	HM	4	3	-	5 7/8"		3				ELEC. CLO.
MEZZ	208A	3'-0"	7'-0"	1 3/4"	A	WD	SOLID	-	1	HM	4	3	-	5 7/8"		3				SERVER CLO.
MEZZ	209A	3'-0"	7'-0"	1 3/4"	A	WD	SOLID	-	1	HM	4	3	-	5 7/8"		3				JANITOR CLO.
MEZZ	210A	6'-0"	7'-0"	1 3/4"	AA	WD	SOLID	-	3	HM	4	3	-	5 7/8"		3				STORAGE CLO.
MEZZ	211A	6'-0"	7'-0"	1 3/4"	AA	WD	SOLID	-	3	HM	4	3	-	5 7/8"		3				STORAGE CLO.
MEZZ	212A	6'-0"	7'-0"	1 3/4"	AA	WD	SOLID	-	3	HM	4	3	-	5 7/8"		3				STORAGE CLO.

WINDOW SCHEDULE

* VERIFY ALL DIMENSIONS IN FIELD

WINDOW							FRAME					
		SIZE			INT./		DETAILS			MOUNTING	
NO.	QTY.	W	H	TYPE	EXT.	DTL	MATL	HEAD	JAMB	SILL	HEIGHT	REMARKS
1	2	20"	96"	FIXED	EXT.	W1	SS	6	7	8	8'-0" AFF	FEATURE ENTRY WINDOW
2	4	48"	48"	OPER	EXT.	W2	AL	6	7	8	7'-0" AFF	RECEPTIONIST WINDOW
3	1	36"	66"	FIXED	INT.	W3	AL	6	7	8	7'-0" AFF	INTERIOR WINDOW @ DELIVERY
~~4~~	~~2~~	~~48"~~	~~48"~~	~~FIXED~~	~~INT.~~	~~W4~~	~~AL~~	~~6~~	~~7~~	~~8~~	~~7'-0" AFF~~	~~INTERIOR WINDOW @ MEZAANINE~~
5	4	18"	66"	FIXED	INT.	W5	AL	6	7	8	7'-0" AFF	INTERIOR WINDOW @ OFFICES
6	1	24"	126"	FIXED	EXT.	W6	SS	6	7	8	10'-0" AFF	FEATURE ENTRY TRANSOM
7	2	20'-0"	10'-0"	FIXED	EXT.	W7	AL	6	7	8	11'-0" AFF	SALES AREA WINDOW

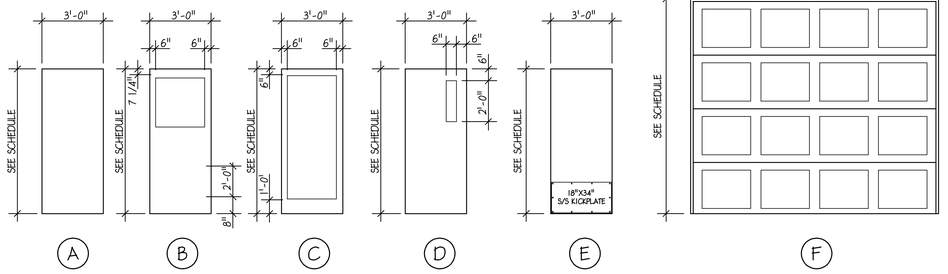
ROOM FINISH SCHEDULE

NOTE:
1. ALL EXTERIOR MAN DOORS AND FRAMES SHALL BE PAINTED - COLOR TO MATCH EXISTING DOORS & FRAMES.

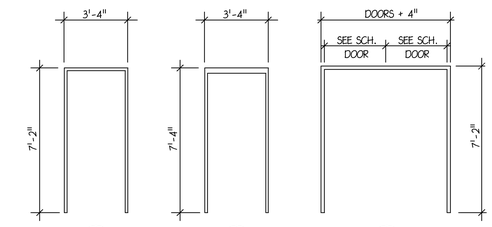
ROOM			FLOORS							BASES						WAINSCOTS				WALLS								CEILINGS								
			MATERIALS							MATERIALS						MATERIALS			HGT.	MATERIALS								MATERIALS						MTG.			
LOCATION (FLOOR)	ROOM NUMBER	ROOM NAME	SEALED CONC.	ROLLED MMA	VCT	CERAMIC TILE	CARPET	HARDWOOD	TRAVERTINE TILE	RESILIENT	MMA COVE	CERAMIC TILE	VCT	WOOD	NONE	TRAVERTINE TILE	PANELING	TILE	PAINTED	CERAMIC TILE	MARLITE	MASONRY	GYPSUM BOARD	PAINTED	PAINTED PLYWOOD	CHAIRRAIL	CROWN MOLDING	TEXTURED GLASS FRP	GYPSUM BOARD	EXPOSED	ACOUSTIC TILE "2'x4'"	ACOUSTIC TILE "1'x1'min"			FURRED	SUSPENDED	SUSPENSION HEIGHT	REMARKS
GROUND	001	WASH & DETAILER GARGAE BAYS	●												●							●		●						●					●	11'-0"	
GROUND	002	DELIVERY AREA		●									●											●						●					●	11'-0"	
GROUND	003	VESTIBULE		●									●											●	●					●					●	9'-0"	
FIRST	100	GALLERY						●									●													●					●	11'-6"	
FIRST	101	MANAGERS					●						●											●	●					●					●	11'-6"	
FIRST	102	RECEPTION					●						●											●	●					●					●	11'-6"	
FIRST	103	SALES AREA					●						●											●	●					●					●	11'-6"	
FIRST	104	SALES AREA					●						●											●	●					●					●	11'-6"	
FIRST	105	WAITING AREA						●					●											●	●					●					●	11'-6"	
FIRST	106	BEVERAGE AREA						●					●											●	●						●					9'-0"	
FIRST	107	MEN'S ROOM				●						●												●	●					●					●	9'-0"	
FIRST	108	WOMEN'S ROOM				●						●												●	●					●					●	9'-0"	
FIRST	109	CORRIDOR						●					●											●	●					●					●	11'-6"	
FIRST	110	CORRIDOR						●					●											●	●					●					●	11'-6"	
FIRST	111	ELEVATOR MECH ROOM		●									●											●	●						●					9'-0"	
FIRST	112	SPRINKLER CLO.		●									●											●	●						●					11'-6"	
FIRST	113	STORAGE CLO.		●									●											●	●						●					9'-0"	
MEZZ	200	KITCHENETTE & BREAK ROOM		●									●											●	●					●					●	9'-0"	
MEZZ	201	SALES OFFICE					●						●											●	●					●					●	9'-0"	
MEZZ	202	SALES OFFICE					●						●											●	●					●					●	9'-0"	
MEZZ	203	GENERAL MANAGER OFFICE					●						●											●	●	●				●					●	9'-0"	
MEZZ	204	F & I OFFICE					●						●											●	●					●					●	9'-0"	
MEZZ	205	SALES AREA					●						●											●	●					●					●	9'-0"	
MEZZ	206	CORRIDOR					●						●											●	●					●					●	9'-0"	
MEZZ	207	ELEC. CLO.		●									●											●	●						●					9'-0"	
MEZZ	208	TELCO / SERVER CLO.		●									●											●	●						●					9'-0"	
MEZZ	209	JANITOR CLO.		●									●											●	●						●					9'-0"	
MEZZ	210	STORAGE CLO.					●						●											●	●						●					9'-0"	
MEZZ	211	STORAGE CLO.					●						●											●	●						●					9'-0"	
MEZZ	212	STORAGE CLO.					●						●											●	●						●					9'-0"	

DOOR TYPES

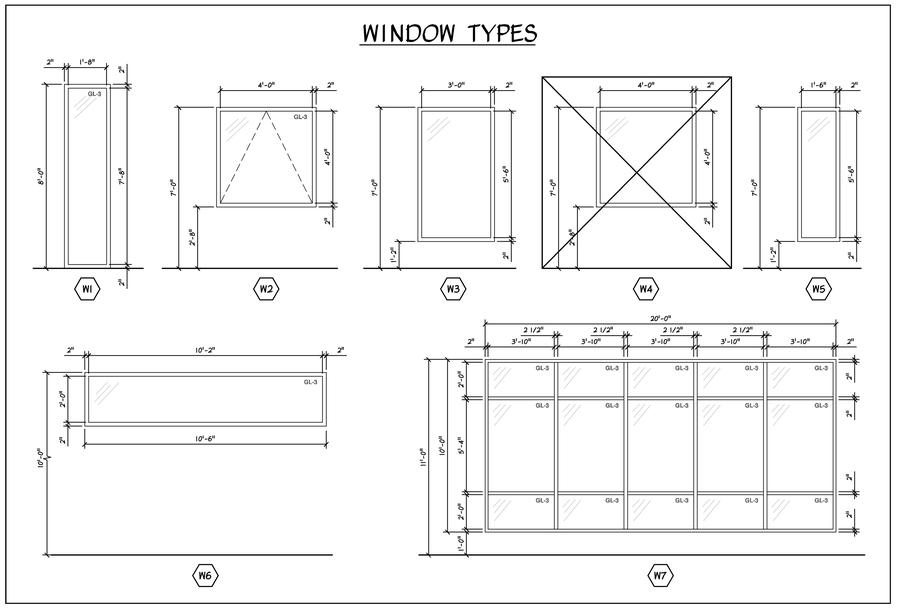
* DOUBLE LETTERS FOR DOOR TYPES DESIGNATES DOUBLE DOORS.

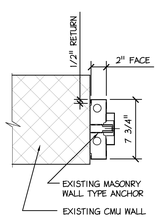


FRAME TYPES

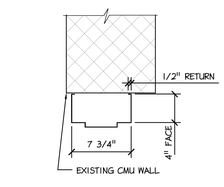


WINDOW TYPES

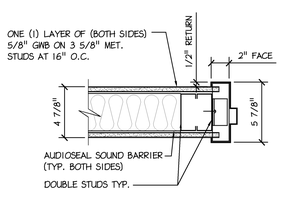




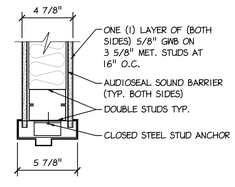
1 A-7 DOOR JAMB DETAIL
SCALE: 1-1/2"=1'-0"



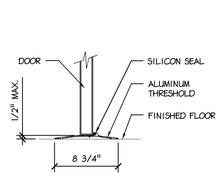
2 A-7 DOOR HEAD DETAIL
SCALE: 1-1/2"=1'-0"



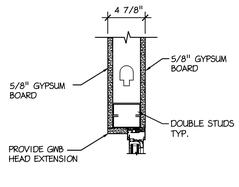
3 A-7 DOOR JAMB DETAIL
SCALE: 1-1/2"=1'-0"



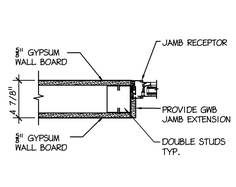
4 A-7 DOOR HEAD DETAIL
SCALE: 1-1/2"=1'-0"



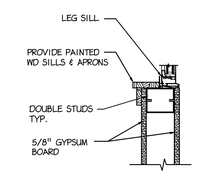
5 A-7 DOOR SILL DETAIL
SCALE: 1-1/2"=1'-0"



6 A-7 WINDOW HEAD DTL
SCALE: 1-1/2"=1'-0"



7 A-7 WINDOW JAMB DTL
SCALE: 1-1/2"=1'-0"



8 A-7 WINDOW SILL DTL
SCALE: 1-1/2"=1'-0"

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523 Kimberton Road, Suite 11B Phoenixville, PA 19460
tel (610) 917-8831 fax (610) 917-8836
email mail@betzwood.com http://www.betzwood.com

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Contact Person:
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APPROVED BY	CURRENT DATE
Robin J. Kohn, AIA	July 18, 2008

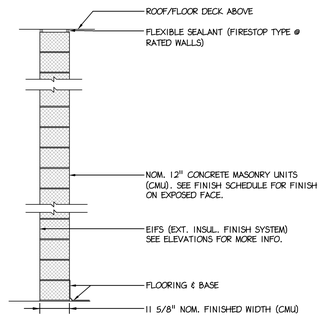
INFINITI of Ardmore
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Ardmore, Pennsylvania 19003

LOWER MERION TOWNSHIP
MONTGOMERY COUNTY

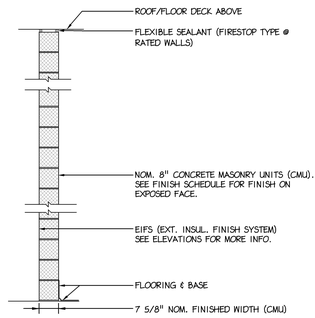
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SCHEDULES & DETAILS

SHEET NUMBER
A-7
REV 5

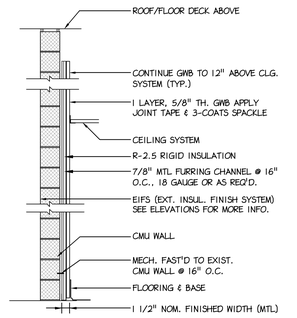
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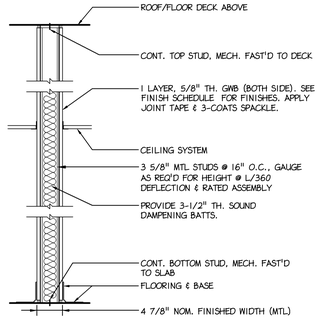
1 12" CMU PARTITION



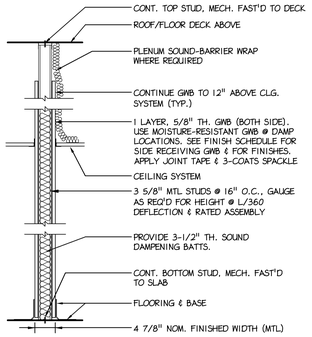
2 8" CMU PARTITION



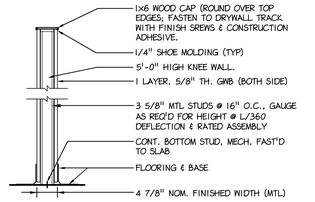
3 STANDARD 7/8" MTL FURRING PARTITION
@ CMU WALL



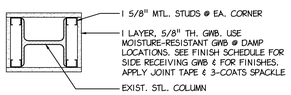
4 STANDARD 3 5/8" MTL. STUD PARTITION



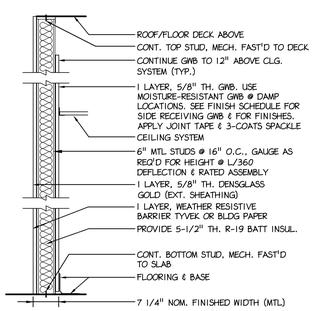
5 STANDARD 3 5/8" MTL. STUD PARTITION
SOUND WALL



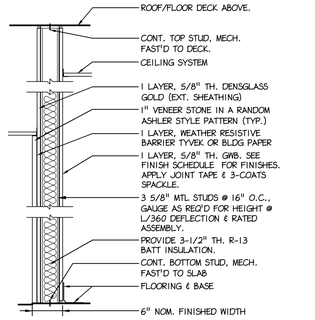
6 5'-0" HIGH KNEE WALL



8 1 5/8" MTL. STUD FURRING @ SUPPORT STEEL

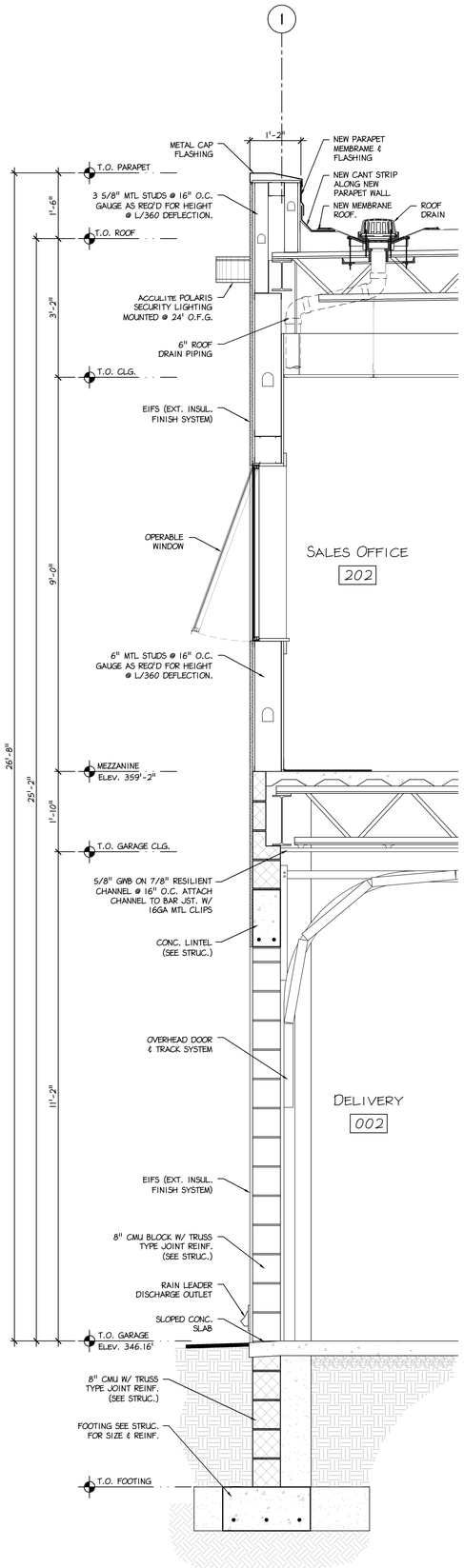


7 STANDARD 6" MTL. STUD PARTITION

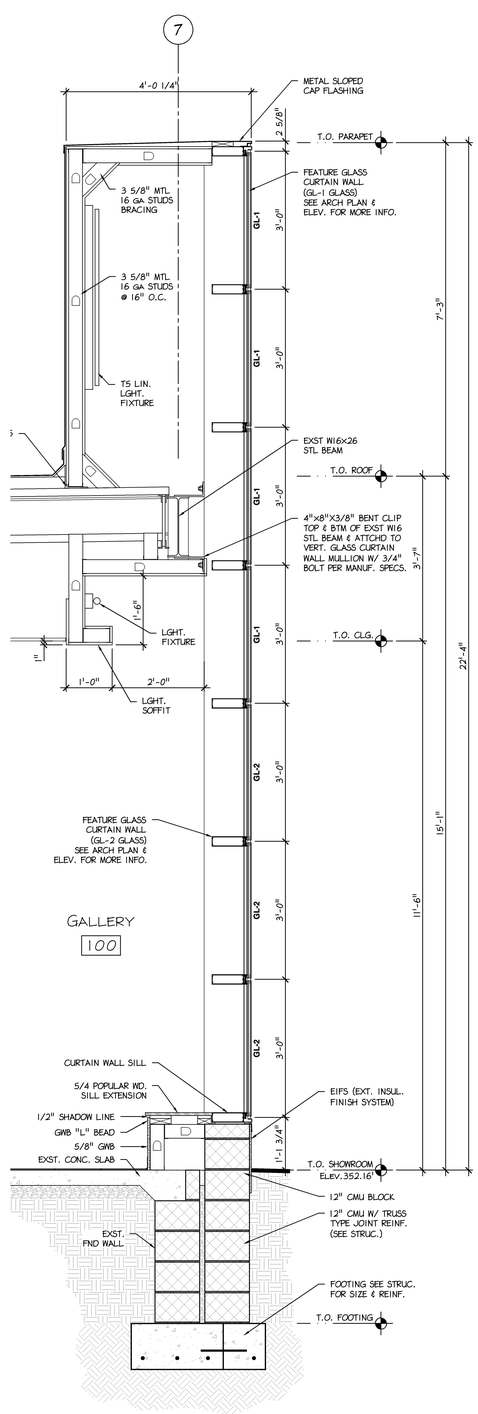


9 3 5/8" MTL STUDS @ ENTRY STONE WALL

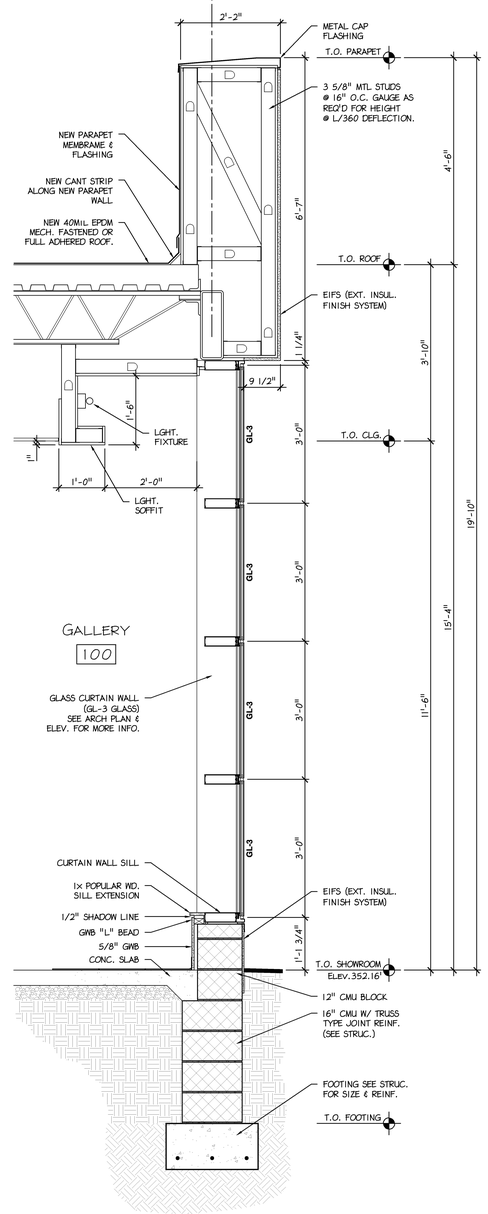
1 PARTITION DEATAILS
A-8 Scale: Not to Scale



2 REAR WALL SECTION
A-8 Scale: 3/4"=1'-0"



3 FEATURE GLASS WALL SECTION
A-8 Scale: 3/4"=1'-0"



4 GLASS CURTAIN WALL SECTION
A-8 Scale: 3/4"=1'-0"

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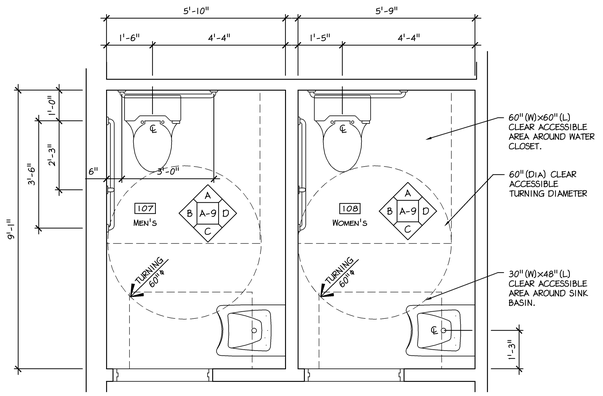
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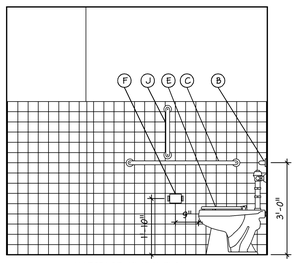
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PARTITION TYPES

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A-8
REV 5

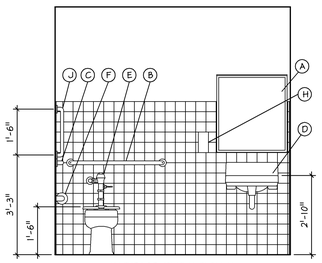
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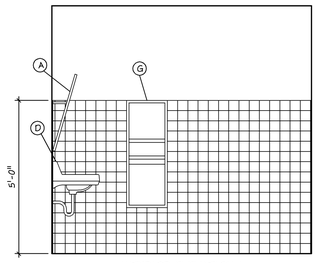
1 BATHROOM PLAN LAYOUT & ELEVATIONS
A-9.1 Scale: 1/2" = 1'- 0"



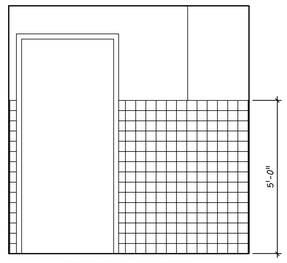
INTERIOR ELEVATION J
SCALE: 1/2"=1'-0"



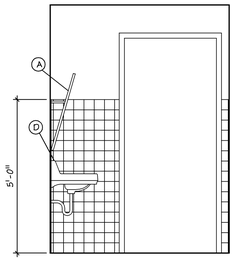
INTERIOR ELEVATION K
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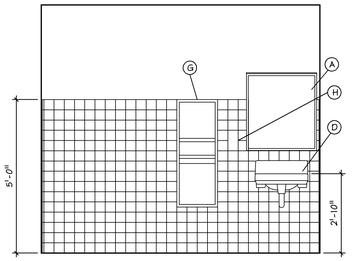
INTERIOR ELEVATION L
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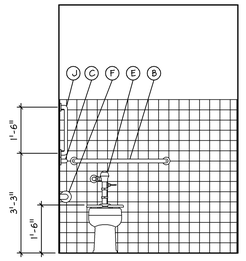
INTERIOR ELEVATION M
SCALE: 1/2"=1'-0"



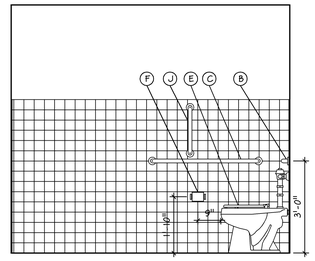
INTERIOR ELEVATION C
SCALE: 1/2"=1'-0"



INTERIOR ELEVATION D
SCALE: 1/2"=1'-0"



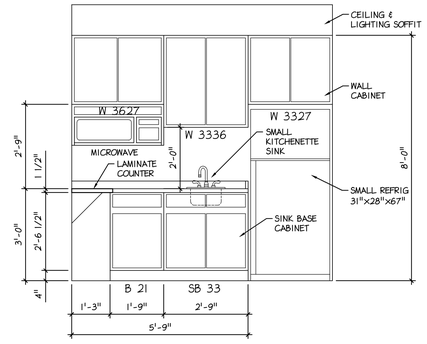
INTERIOR ELEVATION A
SCALE: 1/2"=1'-0"



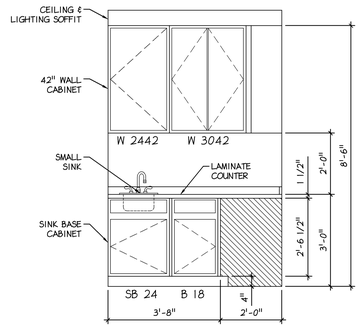
INTERIOR ELEVATION B
SCALE: 1/2"=1'-0"

ACCESSORY SCHEDULE

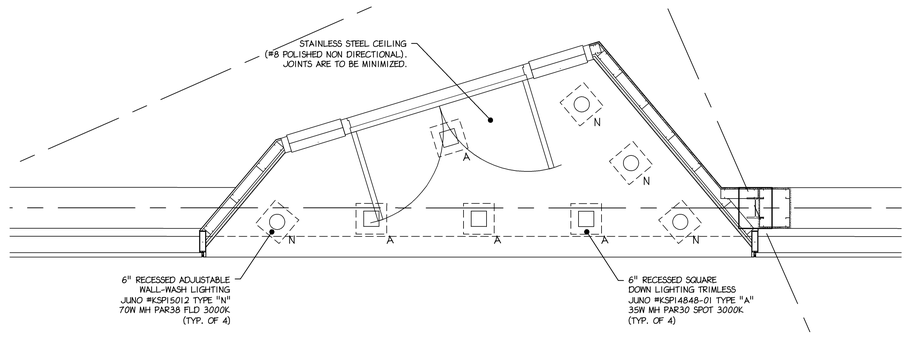
DESIG.	ITEM	MTG. HEIGHT	TOTAL QTY.
A	TILTING MIRROR	70" TO TOP	3
B	REAR GRAB BAR	36" TO CENTER	3
C	SIDE GRAB BAR	36" TO CETER	3
D	WALL MOUNTED ADA LAVATORY	36" TO TOP	3
E	ADA WALL MTD. WATER CLOSET	18" TO TOP	3
F	TOIL. PAPER DISPENSER	19" TO CENTER	3
G	SMALL P/T DISP. WASTE RECEPT.	60" TO TOP	3
H	WALL SOAP DISPENSERS	38" TO BTM.	3
J	VERTICAL GRAB BAR	39" TO BTM.	3



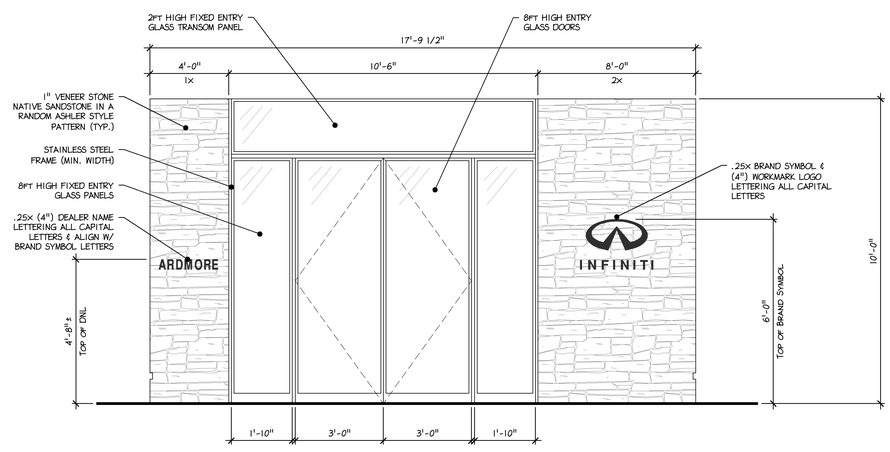
INTERIOR ELEVATION H
SCALE: 1/2"=1'-0"



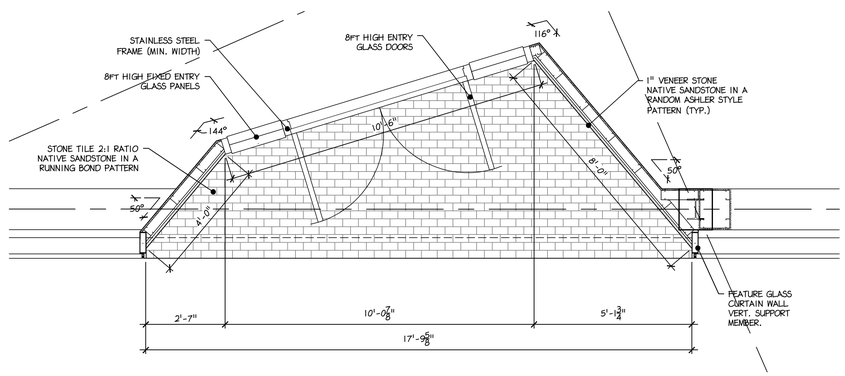
INTERIOR ELEVATION E
SCALE: 1/2"=1'-0"



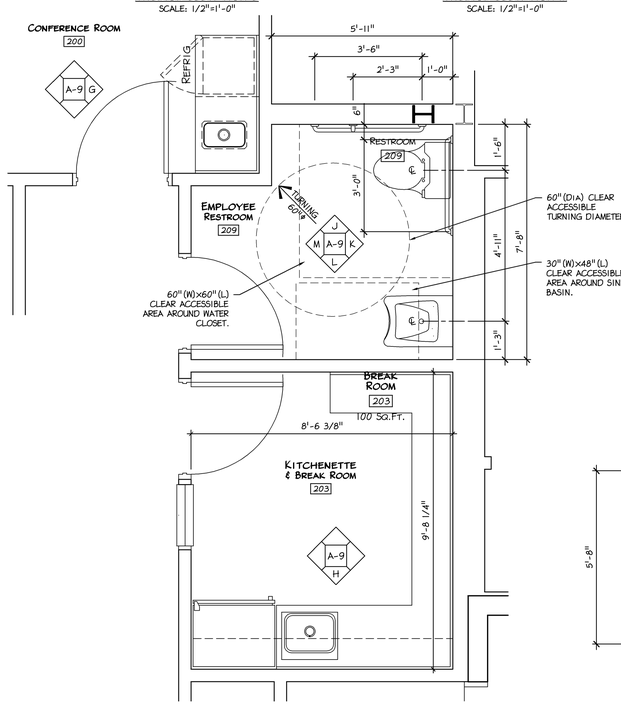
6 ENTRY ELEMENT REFLECTED CEILING PLAN
A-9.1 Scale: 1/2" = 1'- 0"



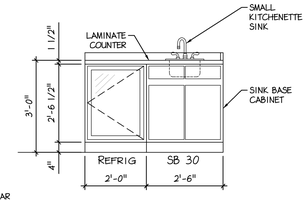
5 ENTRY ELEMENT ELEVATION
A-9.1 Scale: 1/2" = 1'- 0"



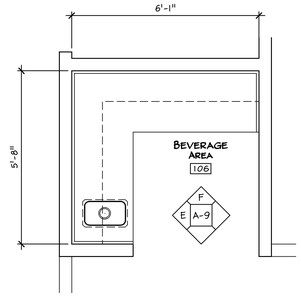
4 ENTRY ELEMENT PLAN
A-9.1 Scale: 1/2" = 1'- 0"



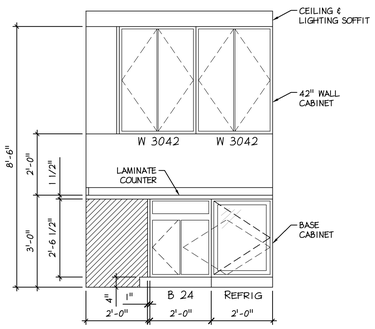
2 CONFERENCE, RESTROOM & BREAK RM. PLAN
A-9.1 Scale: 1/2" = 1'- 0"



INTERIOR ELEVATION G
SCALE: 1/2"=1'-0"



3 BEVERAGE AREA PLAN & ELEVATIONS
A-9.1 Scale: 1/2" = 1'- 0"



INTERIOR ELEVATION F
SCALE: 1/2"=1'-0"

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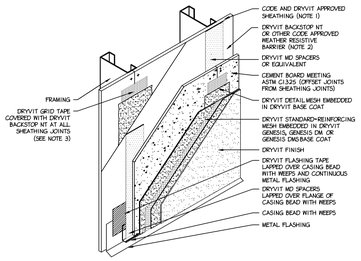
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LOWER MERION TOWNSHIP
MONTGOMERY COUNTY

SHEET TITLE
INTERIOR PLANS & ELEVATIONS

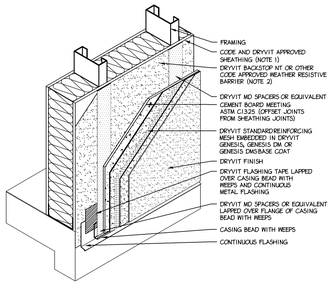
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A-9
REV 5

07-18-08 2610c-SHEET.dwg



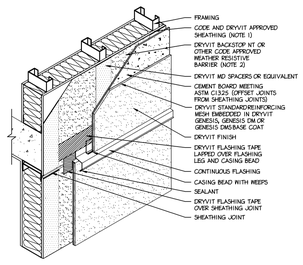
2A Typical EIFS System — System Layout

NOTES:
1. OSB SHEATHING WILL REQUIRE A SHEET TYPE WEATHER RESISTIVE BARRIER IN LIEU OF BACKSTOP NT
2. SHEET TYPE WEATHER RESISTIVE MEMBRANES SHALL BE INSTALLED IN A WEATHER BOARD FASHION
3. DRYVIT GRID TAPE NOT REQUIRED WHEN SHEET TYPE WEATHER RESISTIVE BARRIERS ARE SPECIFIED



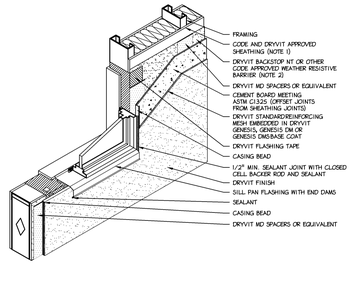
2B Typical EIFS System — Termination at Foundation

NOTES:
1. OSB SHEATHING WILL REQUIRE A SHEET TYPE WEATHER RESISTIVE BARRIER IN LIEU OF BACKSTOP NT
2. SHEET TYPE WEATHER RESISTIVE MEMBRANES SHALL BE INSTALLED IN A WEATHER BOARD FASHION



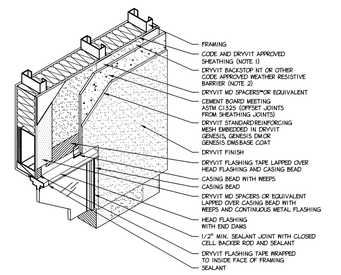
2C Typical EIFS System — Expansion Joint at Floor Line

NOTES:
1. OSB SHEATHING WILL REQUIRE A SHEET TYPE WEATHER RESISTIVE BARRIER IN LIEU OF BACKSTOP NT
2. SHEET TYPE WEATHER RESISTIVE MEMBRANES SHALL BE INSTALLED IN A WEATHER BOARD FASHION



2D Typical EIFS System — Storefront Window Sill/Jamb

NOTES:
1. OSB SHEATHING WILL REQUIRE A SHEET TYPE WEATHER RESISTIVE BARRIER IN LIEU OF BACKSTOP NT
2. SHEET TYPE WEATHER RESISTIVE MEMBRANES SHALL BE INSTALLED IN A WEATHER BOARD FASHION



2E Typical EIFS System — Storefront Window Head

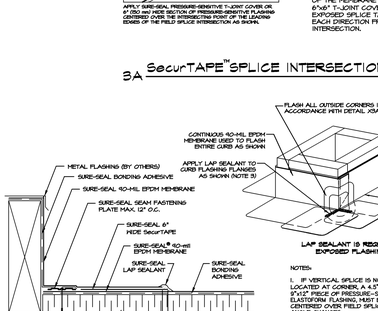
NOTES:
1. OSB SHEATHING WILL REQUIRE A SHEET TYPE WEATHER RESISTIVE BARRIER IN LIEU OF BACKSTOP NT
2. SHEET TYPE WEATHER RESISTIVE MEMBRANES SHALL BE INSTALLED IN A WEATHER BOARD FASHION

2F Typical EIFS System — Vent Penetration

NOTES:
1. OSB SHEATHING WILL REQUIRE A SHEET TYPE WEATHER RESISTIVE BARRIER IN LIEU OF BACKSTOP NT
2. SHEET TYPE WEATHER RESISTIVE MEMBRANES SHALL BE INSTALLED IN A WEATHER BOARD FASHION

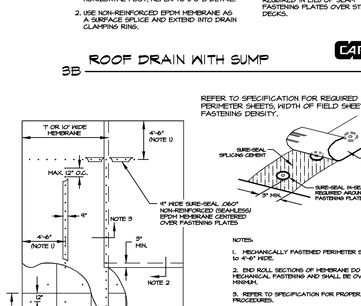
2G Typical EIFS System — Parapet Wall Intersection

NOTES:
1. OSB SHEATHING WILL REQUIRE A SHEET TYPE WEATHER RESISTIVE BARRIER IN LIEU OF BACKSTOP NT
2. SHEET TYPE WEATHER RESISTIVE MEMBRANES SHALL BE INSTALLED IN A WEATHER BOARD FASHION



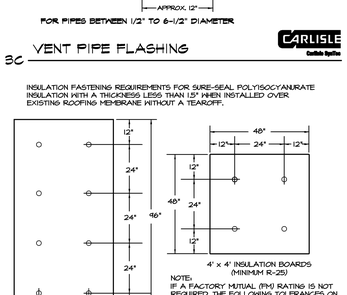
2H Typical EIFS System — Parapet Termination

NOTES:
1. OSB SHEATHING WILL REQUIRE A SHEET TYPE WEATHER RESISTIVE BARRIER IN LIEU OF BACKSTOP NT
2. SHEET TYPE WEATHER RESISTIVE MEMBRANES SHALL BE INSTALLED IN A WEATHER BOARD FASHION



2J Typical EIFS System — Vertical Control/Expansion Joint

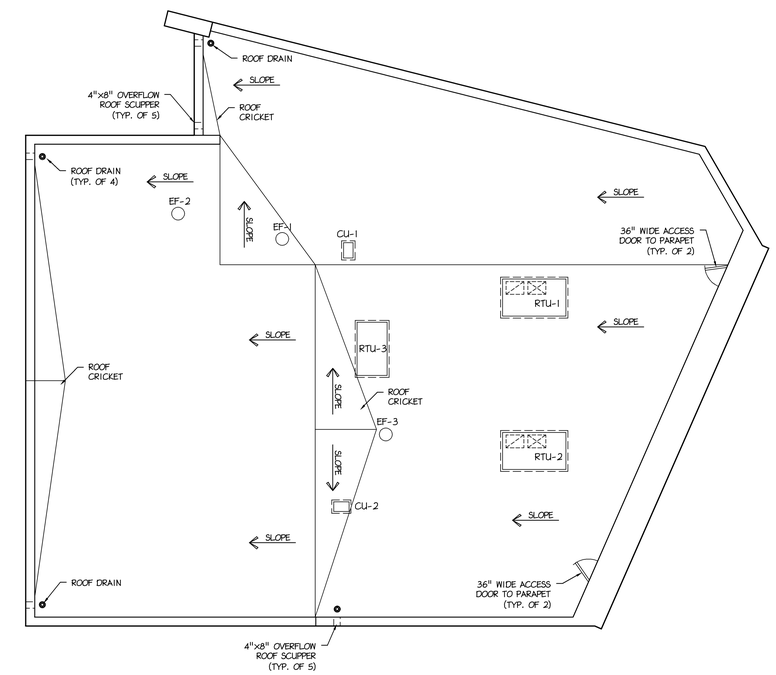
NOTES:
1. OSB SHEATHING WILL REQUIRE A SHEET TYPE WEATHER RESISTIVE BARRIER IN LIEU OF BACKSTOP NT
2. SHEET TYPE WEATHER RESISTIVE MEMBRANES SHALL BE INSTALLED IN A WEATHER BOARD FASHION



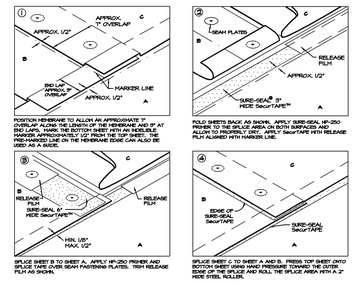
2K Typical EIFS System — Outside Corner

NOTES:
1. OSB SHEATHING WILL REQUIRE A SHEET TYPE WEATHER RESISTIVE BARRIER IN LIEU OF BACKSTOP NT
2. SHEET TYPE WEATHER RESISTIVE MEMBRANES SHALL BE INSTALLED IN A WEATHER BOARD FASHION
3. DO NOT LAP REINFORCING MESH WITHIN 8" OF OUT SIDE CORNERS

2 EIFS DETAILS
A-10 Scale: 3/4" = 1'- 0"



1 ROOF PLAN
A-10 Scale: 1/8" = 1'- 0"

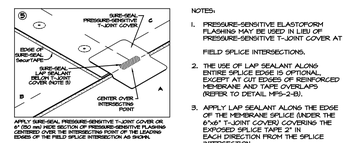


POSITION MEMBRANE TO ALLOW AN APPROXIMATE 1" OVERLAP ALONG THE LENGTH OF THE MEMBRANE AND 8" AT END LAPS. MARK THE BOTTOM SHEET WITH AN INDELIBLE MARKER LINE APPROXIMATELY 1/2" FROM THE TOP SHEET. THE MACHINED EDGE ON THE MEMBRANE EDGE CAN ALSO BE USED AS A GUIDE.

FOLD SHEETS BACK AS SHOWN. APPLY SURE-SEAL HP-250 PRIMER TO THE SPLICE AREA ON BOTH SURFACES AND ALLOW TO PROPERLY DRY. APPLY SecurTAPE WITH RELEASE FILM ALIGNED WITH MARKER LINE.

SPLICE SHEET B TO SHEET A. APPLY HP-250 PRIMER AND SPLICE TAPE OVER SEAM FASTENING PLATES. TRIM RELEASE FILM AS SHOWN.

SPLICE SHEET C TO SHEET A AND B. PRESS TOP SHEET ONTO BOTTOM SHEET USING HAND PRESSURE TOWARD THE CENTER EDGE OF THE SPLICE AND ROLL THE SPLICE AREA WITH A 2" WIDE STEEL ROLLER.



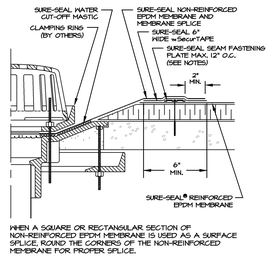
APPLY SURE-SEAL PRESSURE-SENSITIVE T-JOINT COVER OR 6" DOG AND HIDE SECTION OF PRESSURE-SENSITIVE FLASHING CENTERED OVER THE INTERSECTING POINT OF THE LEADING EDGES OF THE FIELD SPLICE INTERSECTION AS SHOWN.

NOTES:
1. PRESSURE-SENSITIVE ELASTOFORM FLASHING MAY BE USED IN LIEU OF PRESSURE-SENSITIVE T-JOINT COVER AT FIELD SPLICE INTERSECTIONS.
2. THE USE OF LAP SEALANT ALONG ENTIRE SPLICE EDGE IS OPTIONAL, EXCEPT AT CUT EDGES OF REINFORCED MEMBRANE AND TAPE OVERLAPS (REFER TO DETAIL MPS-2-B).
3. APPLY LAP SEALANT ALONG THE EDGE OF THE MEMBRANE SPLICE UNDER THE 6"x6" T-JOINT COVER) COVERING THE EXPOSED SPLICE TAPE 2" IN EACH DIRECTION FROM THE SPLICE INTERSECTION.

3A SecurTAPE™ SPLICE INTERSECTION

CARLISLE Carlisle SynTec

FOR DRAINS WITH TAPERED INSULATION AT DRAIN SUMP GREATER THAN 3" TO ONE HORIZONTAL FOOT



WHEN A SQUARE OR RECTANGULAR SECTION OF NON-REINFORCED EPDM MEMBRANE IS USED AS A SURFACE SPLICE, ROUND THE CORNERS OF THE NON-REINFORCED MEMBRANE FOR PROPER SPLICE.

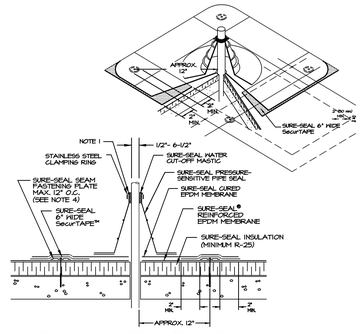
NOTES:
1. REINFORCED EPDM MEMBRANE MUST BE FASTENED WITH SEAM FASTENING PLATES NO MORE THAN 12" ON CENTER WHEN THE TAPERED INSULATION AT THE DRAIN SUMP IS GREATER THAN 3" TO THE HORIZONTAL FOOT, CUT REINFORCED MEMBRANE EVEN WITH TOP EDGE OF THE DRAIN SUMP.

   WHEN TAPERED INSULATION AT THE DRAIN SUMP IS LESS THAN 3" TO THE HORIZONTAL FOOT, REFER TO U-6-B DETAIL.
2. USE NON-REINFORCED EPDM MEMBRANE AS A SURFACE SPLICE AND EXTEND INTO DRAIN CLAMPING RING.
3. LOCATE EDGE OF THE SURFACE SPLICE OUT OF THE DRAIN SUMP AT LEAST 6" IN ALL DIRECTIONS ONTO THE HORIZONTAL MEMBRANE.
4. INSULATION TAPER SHALL NOT BE STEEPER THAN 6" (VERTICAL) IN 12" (HORIZONTAL).
5. POLYMER SEAM PLATES ARE REQUIRED IN LIEU OF SEAM FASTENING PLATES OVER STEEL DECKS.

3B ROOF DRAIN WITH SUMP

CARLISLE Carlisle SynTec

NOTES:
1. PRE-MOLDED PIPE SEAL MUST HAVE INTACT RIB AT TOP EDGE REGARDLESS OF PIPE DIAMETER.
2. SEAM FASTENING PLATES ARE ALSO REQUIRED AROUND FIELD FABRICATED PIPE SEALS (U-14 DETAILS).
3. INSTALL A MINIMUM OF 4 SEAM FASTENING PLATES FOR PIPES WITH A DIAMETER UP TO 6". ADDITIONAL SEAM FASTENING PLATES WILL BE REQUIRED FOR GREATER THAN 6" IN DIAMETER AND SHALL BE SPACED 12" ON CENTER MAXIMUM.
4. POLYMER SEAM PLATES ARE REQUIRED IN LIEU OF SEAM FASTENING PLATES OVER STEEL DECKS.

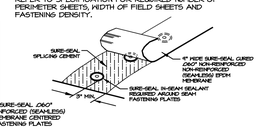


FOR PIPES BETWEEN 1/2" TO 6-1/2" DIAMETER

3C VENT PIPE FLASHING

CARLISLE Carlisle SynTec

REFER TO SPECIFICATION FOR REQUIRED NUMBER OF PERIMETER SHEETS, WIDTH OF FIELD SHEETS AND FASTENING DENSITY.



NOTES:
1. MECHANICALLY FASTENED PERIMETER SHEET SHALL BE 5'-6" to 4'-6" WIDE.
2. END SOLUTIONS OF MEMBRANE DO NOT REQUIRE MECHANICAL FASTENING AND SHALL BE OVERLAPPED 3" MINIMUM.
3. REFER TO SPECIFICATION FOR PROPER MEMBRANE SPLICING PROCEDURES.
4. FOR MEMBRANE SPLICE AT SEAM FASTENING PLATES, REFER TO APPLICABLE MPS-2 DETAIL.
5. INSULATION SHALL BE MECHANICALLY ATTACHED FOR TYPE AND FASTENING PATTERN SEE SPECIFICATION.
6. POLYMER SEAM PLATES ARE REQUIRED IN LIEU OF SEAM FASTENING PLATES OVER STEEL DECKS.

3E MEMBRANE ATTACHMENT

CARLISLE Carlisle SynTec

INSULATION FASTENING REQUIREMENTS FOR SURE-SEAL POLYISOCYANURATE INSULATION WITH A THICKNESS LESS THAN 1.5" WHEN INSTALLED OVER EXISTING ROOFING MEMBERANE WITHOUT A TEAROFF.

NOTE:
IF A FACTORY MUTUAL (FM) RATING IS NOT REQUIRED, THE FOLLOWING TOLERANCES ON DIMENSIONS BETWEEN FASTENERS ARE PERMITTED:

DIMENSIONS SHOWN ON DRAWING	PERMITTED TOLERANCES
12"	± 1"
24"	± 2"

3F INSULATION ATTACHMENT

CARLISLE Carlisle SynTec

3 EPDM ROOF DETAILS
A-10 Scale: 3/4" = 1'- 0"

FINAL 07/22/2008
ISSUED FOR CONSTRUCTION

Betzwood Associates PC
Architects & Engineers
Robin J. Kohn, AIA — Regis W. Kubit, PE
523 Kimberton Road, Suite 11B Phoenixville, PA 19460
tel. (610) 917-8831 fax (610) 917-8836
email mail@betzwood.com http://www.betzwood.com

Robin J. Kohn AIA
Commonwealth of Pennsylvania
License No. RA-11327-X

CONTRACTOR

Frank Mariani, Inc.
1479 Wilmington Pike
West Chester, PA 19382
T. 610 322 - 2285 F. 610 675 - 7109

Contact Person:
Edward M. Happ
(610) 917-8831

PROJECT NO.	DRAWN BY	CHK'D BY
B2810	EMH	EMH

NO.	DATE	BY	ISSUE
1	11-16-07	EMH	ISSUED FOR PERMIT
2	01-11-08	EMH	ISSUED FOR CONSTRUCTION
3	02-18-08	EMH	REVISED ADA & EXT. LIGHTING CONDITIONS (ELEVATOR)
4	05-14-08	EMH	CONSTRUCTION REVISION
5	07-18-08	EMH	ELECTRICAL REVISIONS & PERMIT SUBMISSION
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			

APPROVED BY	CURRENT DATE
Robin J. Kohn, AIA	July 18, 2008

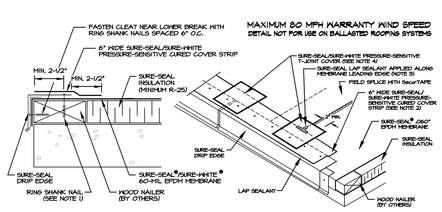
INFINITI of Ardmore
306 W Lancaster Avenue
Ardmore, Pennsylvania 19003

LOWER MERION TOWNSHIP
MONTGOMERY COUNTY

SHEET TITLE
ROOF PLAN & DETAILS

SHEET NUMBER
A-10
REV 5

07-18-08 2810c-3dSht.dwg



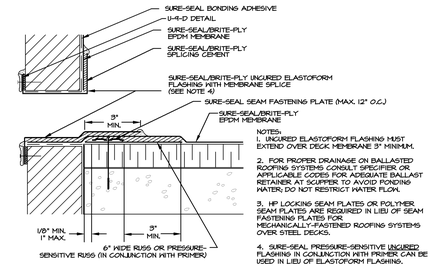
MAXIMUM 80 MPH WARRANTY WIND SPEED DETAIL NOT FOR USE ON BALLASTED ROOFING SYSTEMS

NOTES:

1. STABILIZE METAL DRIP EDGE BY SECURING WITH RING SHANK NAILS SPACED 3" O.C.; PENETRATE HOOD NAILER 1-1/4" MINIMUM.
2. FLASH METAL DRIP EDGE WITH 6" WIDE PRESSURE-SENSITIVE CURED COVER STRIP, IN CONJUNCTION WITH PRIMER. EXTEND FLASHING TO TOTALLY COVER THE FLANGE (MAXIMUM EXPOSED METAL SHALL NOT EXCEED 1/4", FROM EDGE).
3. APPLY LAP SEALANT ALONG THE LEADING EDGE OF THE MEMBRANE SPLICE UNDER THE 6" x 6" T-JOINT COVERS COVERING THE EXPOSED SPLICE TAPE 2" IN ALL DIRECTIONS FROM THE SPLICE INTERSECTION.
4. OVERLAY DRIP EDGE FLASHING WITH PRESSURE-SENSITIVE T-JOINT COVERS OR 6" WIDE PRESSURE-SENSITIVE ELASTOFORM FLASHING (IN CONJUNCTION WITH PRIMER) AT FIELD SPLICE INTERSECTIONS AND AT JOINTS BETWEEN SECTIONS OF METAL EDGING AS SHOWN.

CARLISLE Carlisle SynTec

1A SURE-SEAL DRIP EDGE

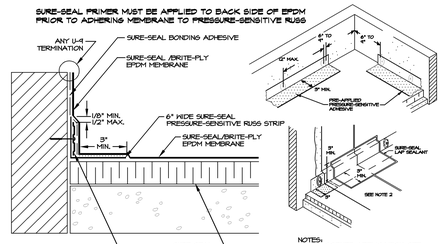


NOTES:

1. UNCURED ELASTOFORM FLASHING MUST EXTEND OVER DECK MEMBRANE 3" MINIMUM.
2. FOR PROPER DRAINAGE ON BALLASTED ROOFING SYSTEMS CONSULT SPECIFIER OR APPLICABLE CODES FOR ADEQUATE BALLAST RETAINER AT SCUPPER TO AVOID PONDING WATER, DO NOT RESTRICT WATER FLOW.
3. HP LOCKING SEAM PLATES OR POLYMER SEAM PLATES ARE REQUIRED IN LIEU OF SEAM FASTENING PLATES FOR MECHANICALLY-FASTENED ROOFING SYSTEMS OVER STEEL DECKS.
4. SURE-SEAL PRESSURE-SENSITIVE UNCURED FLASHING IN CONJUNCTION WITH PRIMER CAN BE USED IN LIEU OF ELASTOFORM FLASHING.

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1B SCUPPER AT DECK

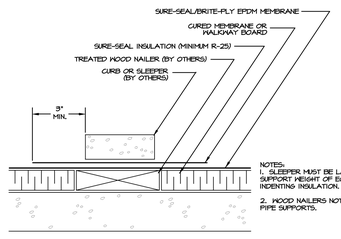


NOTES:

1. FOR CORNER APPLICATION, SEE DETAIL U-15-D.
2. 6" WIDE UNCURED ELASTOFORM FLASHING OR PRESSURE-SENSITIVE FLASHING MUST BE CENTERED OVER FIELD SPLICE AT ANGLE CHANGE.

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1C WALL FLASHING



NOTES:

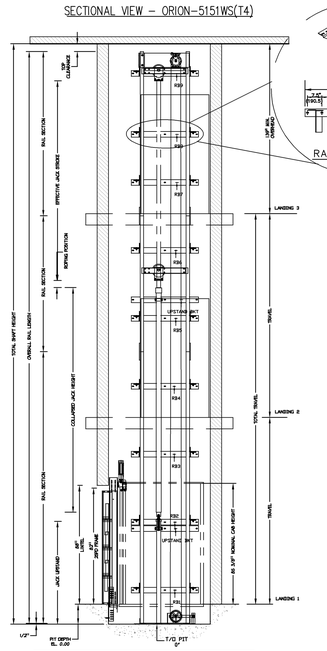
1. SLEEPER MUST BE LARGE ENOUGH TO SUPPORT HEIGHT OF EQUIPMENT WITHOUT INDENTING INSULATION.
2. WOOD NAILERS NOT REQUIRED UNDER PIPE SUPPORTS.

CARLISLE Carlisle SynTec

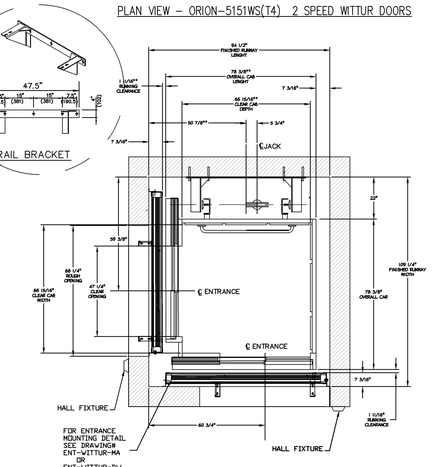
1D SLEEPER

1 EPDM ROOF DETAILS (CONT.)
1/A-11 Scale: 3/4" = 1'- 0"

SECTIONAL VIEW – ORION–5151WS(T4)



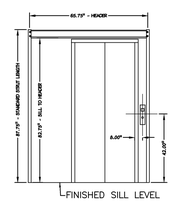
PLAN VIEW – ORION–5151WS(T4) 2 SPEED WITTUR DOORS



RAIL BRACKET

PIT / OVERHEAD REQUIREMENTS			
MAX. SPEED (ft/min)	PIT	OVERHEAD TOTAL TRAVEL	OVERHEAD NEW BLDG EXISTING BLDG
30	14" ***	131"(3327)	120"(3048)

*** NOTE: Additional pit equipment required when over 36" deep, consult your local dealer for details



HALL FIXTURE LOCATION

RAIL FORCES		R3 NOTE:
		PIT FLOOR TO SUPPORT LOAD OF: 25 kips/44.48kn (* INCLUDES IMPACT)
* R1	* R2	FOR TOTAL PULL-OUT FORCE ON RAIL BRACKET: R1 MUST BE DOUBLED kg
705 lbf/320N	260 lbf/116KN	
RAIL WEIGHT - 8.0 lbs / Ft		

NOTE A
WHERE SMOKE DETECTORS ARE REQUIRED, WIRING FROM A NORMALLY CLOSED CONTACT AT BOTH THE DESIGNATED RETURN LANDING, SMOKE DETECTORS AND ALTERNATE RETURN LANDING SMOKE DETECTOR SHALL BE PROVIDED TO THE CONTROLLER. A NORMALLY CLOSED CONTACT REPRESENTING ALL OTHER SMOKE DETECTORS MUST BE PROVIDED TO THE CONTROLLER.

NOTE B
ALL INFORMATION IS SUBJECT TO CHANGE. PLEASE REFERENCE OUR ON-LINE DRAWINGS AT www.concordelevator.com FOR THE MOST RECENT UPDATES.

CONCORD ORION 5151 ELEVATOR ENCLOSURE
LU/LA TYPE-4, US

PROVISIONS BY OTHERS

*GENERAL

HOISTWAY– THE HOISTWAY MUST BE IN ACCORDANCE WITH SAFETY CODE FOR ELEVATORS (ASME A17.1 OR B44-2000) AND ALL STATE/PROVINCIAL AND LOCAL CODES.

PLUMB HOISTWAY– DUE TO CLOSE RUNNING CLEARANCES OWNER/AGENT MUST ENSURE THAT HOISTWAY AND PIT (WHERE PROVIDED) ARE LEVEL, PLUMB AND SQUARE AND ARE IN ACCORDANCE WITH THE DIMENSIONS ON THESE DRAWINGS.

MINIMUM OVERHEAD CLEARANCE– OWNER/AGENT MUST ENSURE MINIMUM OVERHEAD CLEARANCE IS IN COMPLIANCE WITH CODES.

CONSTRUCTION SITE– OWNER/AGENT TO PROVIDE ALL MASONRY, CARPENTRY AND DRYWALL WORK AS REQUIRED AND SHALL PATCH AND MAKE GOOD (INCLUDING FINISH PAINTING) ALL AREAS WHERE WALLS/FLOORS MAY REQUIRE TO BE CUT, DRILLED OR ALTERED IN ANY WAY TO PERMIT THE PROPER INSTALLATION OF THE LIFT.

DIMENSIONS
CONTRACTOR/CUSTOMER TO VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES TO OUR OFFICE IMMEDIATELY.

*STRUCTURAL

FLOOR/SUPPORT WALL LOADS– STRUCTURAL ENGINEER TO ASSURE THAT BUILDING AND SHAFT WILL SAFELY SUPPORT ALL LOADS IMPOSED BY THE LIFT EQUIPMENT. REFER TO THE TABLES ON THIS DRAWING FOR LOADS IMPOSED BY THE EQUIPMENT.

DOORS– SUITABLE LINTELS MUST BE PROVIDED BY OWNER/AGENT. DOOR FRAMES ARE NOT DESIGNED TO SUPPORT OVERHEAD WALL LOADS.

*MACHINE ROOM

LOCATION / ACCESS– MACHINE ROOM LOCATED AT THE LOWEST LEVEL ADJACENT TO HOISTWAY, UNLESS SHOWN OTHERWISE ON THE LAYOUT DRAWINGS. FIELD ADJUSTMENT BY INSTALLER MAY BE NECESSARY TO MEET JOB SITE CONDITIONS OR REGULATIONS. ACCESS TO MACHINE ROOM TO BE THROUGH A SELF CLOSING AND SELF LOCKING DOOR.

SLEEVES FOR OIL & ELECTRIC LINES– PROVIDED BY OTHERS, FROM MACHINE ROOM TO HOISTWAY. <POSITION PER INSTALLERS INSTRUCTIONS>.

	INPUT VOLTAGE (V/PH/CYCLE)	DISCONNECT SIZE (AMPS)	TIME DELAY FUSE (AMPS)	FULL LOAD CURRENT (AMPS)
MOTOR INFO		30	30	15.6
		60	50	21
CAB LIGHTS	115/1PH		15	

*ELECTRICAL

POWER SUPPLY– <SEE SPECIFICATIONS> LOCKABLE FUSED DISCONNECT WITH AUXILIARY CONTACT TO BRAKE THE BATTERY FEED, OR CIRCUIT BREAKERS WITH A 3-POLE BREAKER FOR BATTERY FEED REQUIRED, IN COMPLIANCE WITH ELECTRICAL CODE, AS FOLLOWS: <LOCATED ON WALL ON LOCK JAMB SIDE OF MACHINE ROOM DOOR>

PERMANENT POWER– BEFORE INSTALLATION CAN BEGIN, PERMANENT POWER MUST BE SUPPLIED.

LIGHTING– OWNER/AGENT TO ENSURE AT LEAST 5 FTC OR 54 LUX AMBIENT LIGHTING OVER ELEVATOR AREA.

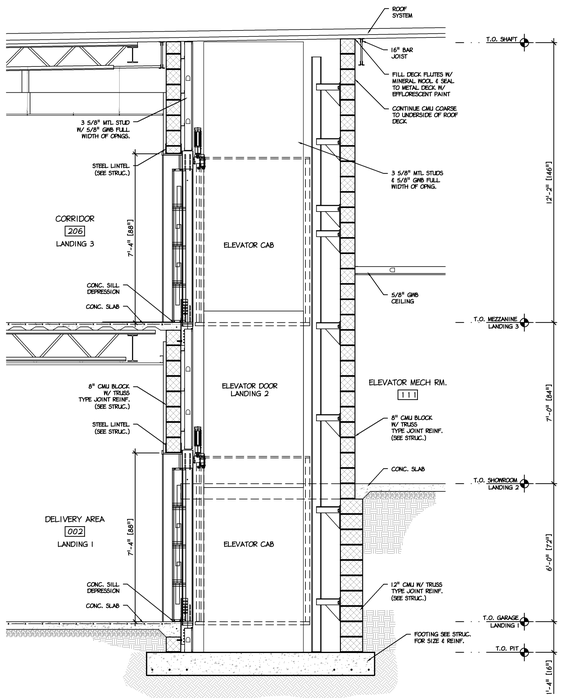
*ENTRANCES

FASCIA PANEL, BELOW UPPER LEVEL ENTRANCE– WHERE REQUIRED, FASCIA PANEL MUST BE FASTENED TO A SOLID WALL AND BE PERPENDICULAR TO THE FLOOR AND WALLS. HOISTWAY FASCIA IS NOT SELF-SUPPORTING FOR LONG, CONTINUOUS RUNS VOID OF ENTRANCES. ADEQUATE SUPPORT AND THE FASCIA MUST BE PROVIDED BY OTHERS.

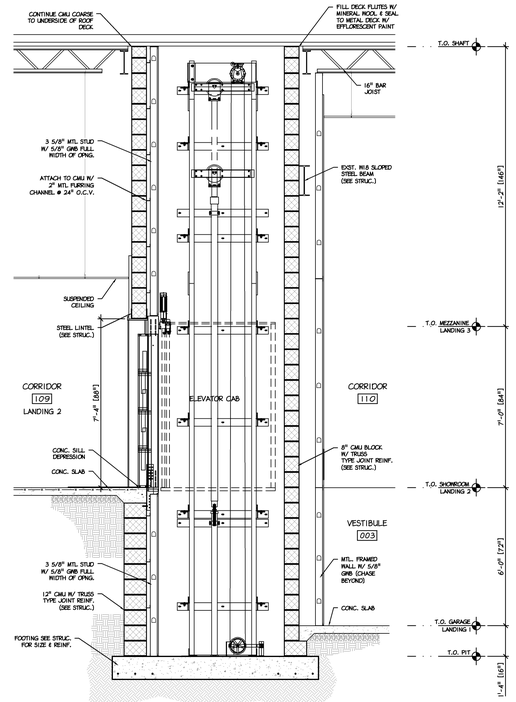
ENTRANCE ASSEMBLIES– ENTRANCE ASSEMBLIES MUST BE ADJUSTED TO ALIGN WITH PLATFORM AND INTERLOCK EQUIPMENT. OTHERS TO ALLOW AN ADEQUATE ROUGH OPENING.

RETURN WALLS– RETURN WALLS AT ENTRANCES MUST BE BUILT-IN BY OTHERS AFTER ENTRANCE ASSEMBLIES ARE IN PLACE. ENTRANCE ASSEMBLY MUST BE SECURELY FASTENED TO WALLS BY ELEVATOR CONTRACTOR.

2 ELEVATOR - DETAIL
2/A-11 Scale: N.T.S.



3 ELEVATOR - SECTION
3/A-11 Scale: 3/8" = 1'- 0"



4 ELEVATOR - SECTION
4/A-11 Scale: 3/8" = 1'- 0"

FINAL 07/22/2008
ISSUED FOR CONSTRUCTION

Betzwood Associates PC
Architects & Engineers
Robin J. Kohn, AIA — Regis W. Kubit, PE
REGISTERED ARCHITECT COMMONWEALTH OF PENNSYLVANIA ROBIN J. KOHN RA-11327-X
523 Kimberton Road, Suite 11B Phoenixville, PA 19460
tel. (610) 917-8831 fax. (610) 917-8836
email mail@betzwood.com http://www.betzwood.com

Robin J. Kohn AIA
Commonwealth of Pennsylvania
License No. RA-11327-X

CONTRACTOR

Frank Mariani, Inc.
1479 Wilmington Pike
West Chester, PA 19382
T. 610 322 - 2285 F. 610 675 - 7109

Contact Person:
Edward M. Happ
(610) 917-8831

PROJECT NO.	DRAWN BY	CHK'D BY
B2610	EMH	EMH

NO.	DATE	BY	ISSUE
1	11-16-07	EMH	ISSUED FOR PERMIT
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APPROVED BY	CURRENT DATE
Robin J. Kohn, AIA	July 18, 2008

INFINITI of Ardmore
306 W Lancaster Avenue
Ardmore, Pennsylvania 19003

LOWER MERION TOWNSHIP
MONTGOMERY COUNTY

SHEET TITLE
ROOF DETAILS & ELEVATOR

SHEET NUMBER
A-11
REV 5

07-18-08 2610c-Sht5Rf.dwg

OUTLINE SPECIFICATIONS

DIVISION 1: GENERAL REQUIREMENTS

1. Summary of Work.

   1. The project consists of interior architectural, Mechanical, Electrical, Plumbing, and Fire Protection modifications to renovate and expand sales area, gallery and vehicle prep for INFINITI of Ardmore located at 306 West Lancaster Avenue, Ardmore, Pennsylvania.

   2. Owner: INFINITI of Ardmore
      306 West Lancaster Avenue
      Ardmore, PA 19003

   3. Phasing: The project will be built as a single phase.

2. AIA General Conditions 201 shall govern the work. For general requirements, refer to the Supplemental General Conditions Requirements for the project.

3. All work shall be done in accordance with project specifications and contract documents.

4. The Contractor shall submit shop drawings and samples to the Architect in accordance with Section 01330 of the Supplemental General Conditions Requirements:

   List of Submittals (including but not limited to):
   - Steel Erection
   - Wood Doors and Frames
   - Door Hardware
   - Exterior Stone
   - Paint Color Samples
   - Carpeting Samples
   - Tile Flooring
   - Suspended Ceiling System
   - Vinyl Composition Tile Samples
   - Vinyl Wall Base Samples
   - Casework

5. The Owner shall provide the following items or assemblies for the project:
   - Furniture
   - Equipment as scheduled in drawings

6. Refer to INFINITI IREDI (Infiniti Retail Environmental Design Initiative) Technical Guide.

GENERAL CONSTRUCTION NOTES

1. The buildings shall comply with the International Buildings code (IBC) 2006 and ANSI A117.1-2003, American Disabilities Act (ADA) with all additional codes and safety regulations pertaining to Commonwealth of Pennsylvania and the local municipality, including any modifications made by ordinances by the local municipality. The project code summary is intended to highlight general code requirements only. General Contractor and subcontractors are responsible for conforming to all applicable code required and referring to the ICC code.

2. All building permits shall be obtained by the contractor prior to the commencement of construction.

3. Before submitting proposal and beginning work, carefully examine construction documents, visit the site, and become fully informed concerning all existing conditions, law, ordinances, and regulations of jurisdictional bodies which may effect the work.

4. Contractor shall verify all dimensions and conditions in the field prior to construction. Any discrepancies should be brought to the attention of the Architect and Owner prior to construction.

5. Typical dimensions are to center line of column or face of finished wall. Refer to plan details for dimensional offsets.

6. All finishes shall be installed in accordance with manufacturer's recommendations and instructions. Refer to project literature of each specified finish for specific requirements.

7. Any new finishes required because of demolition or new construction shall match existing adjacent finishes.

8. After completion of all work, the area within construction limits shall be cleared of all excess materials, debris and trash. All new finishes shall be cleaned prior to occupancy by Owner.

DIVISION 2 - SITE CONSTRUCTION

1. Refer to Civil Drawings.

DIVISION 3 - CONCRETE

SECTION 03300 - CAST-IN-PLACE CONCRETE

1. Comply with Act 301, "Specification for Structural Concrete," unless modified by the requirements of the Contract Documents.n

2. Installation, General

   1. Formwork: Design, construct, erect, shore, brace, and maintain formwork according to ACI 301.

   2. Vapor Retarder: Install, protect, and repair vapor-retarder sheets according to ASTM E 1643; place sheets in position with longest dimension parallel with direction of pour.

   3. Steel Reinforcement: Comply with CRSI's "Manual of Standard Practice" for fabricating, placing, and supporting reinforcement.

   4. Tolerances: Comply with ACI117, "Specifications for Tolerances for Concrete Construction and Materials."

   5. Comply with recommendations in ACI 304R for measuring, mixing, transporting, and placing concrete.

   6. Uniformed Finish: Comply with ACI 302.1R for screedings, restraightening, and finishing operations for concrete surfaces. Do not wet concrete surfaces.

   7. Concrete Protection and Curing: Protect freshly placed concrete from premature drying and excessive cold or hot temperatures. Comply with ACI 306.1 for cold-weather protection, and follow recommendations in ACI 305R for hot-weather protection during curing.

3. Tolerances: Comply with ACI 227, "Specifications for Tolerances for Concrete Construction and Materials."

DIVISION 4 - MASONRY

1. Refer to Structural Drawings.

DIVISION 5 - METALS

SECTION 05120 - STRUCTURAL STEEL

1. Refer to Structural Drawings.

DIVISION 6 - WOOD AND PLASTICS

SECTION 06100 - ROUGH CARPENTRY

1. Lumber: Comply with DOC PS 20 and with applicable grading rules of inspection agencies certified by the American Lumber Standards Committee's (ALSC) Board of Review. Provide dressed lumber, S4S, with each piece factory marked with grade stamp of inspection agency.

2. Wood-Preservative-Treated Material: Comply with applicable requirements of AWPA C2 (Lumber) and A WP A C9 (Plywood). Mark each treated item with the Quality mark Requirements of an inspection agency approved by ALSC's Board of Review.

3. Fire-Retardant - Treated Material: Comply with applicable requirements of AWPA C20 (Lumber) and AWPA C27 (Plywood). Identify fire-retardant-treated wood with appropriate classification marking of UL, U.S. Testing; Timber Products Inspection, Inc.; or another testing and inspecting agency acceptable to authorities having jurisdiction.

4. Heat-Treated Float Glass: ASTM C 1048; Type I; Quality q3 class, kind, and condition as indicated in drawings6 and schedules.

5. Comply with combined written instructions of manufacturers of glass, sealants, gaskets, and other glazing materials, including those in referenced glazing publications. drying 5. Concealed Boards: Provide lumber with 19 percent maximum moisture content.

6. Miscellaneous Lumber: Provide No. 3 or Standard Grade lumber of any species for support or attachment of other construction, including rooftop equipment curbs and support bases, cant strips, bucks, nailers, blocking and similar members.

DIVISION 7 - THERMAL AND MOISTURE PROTECTIONS

SECTION 07901 - JOINT SEALANTS

1. Compatibility: Provide joint sealants, joint fillers, and other related materials that are compatible with one another and with joint substrates under service and application conditions, as demonstrated by testing and field experience.

2. Elastomeric Sealant Standard: One-part, Mildew Resistant Silicone Sealant: Type S; Grade NS; Class 25; Uses NT, G,A, and O; formulated with fungicide; intended for sealing interior joints with nonporous substrates exposed to high humidity and temperature extremes.

3. Acrylic Sealant: One-part, non sag, solvent-release curing acrylic terpolymer sealant complying with AAMA 808.3 or FS TT-S-00230, or both, with capability, when tested per ASTM C 719, to withstand 7.5 percent change in joint width existing at time of application without failing adhesively or cohesively.

4. Acoustical Sealant for Concealed Joints: Nondrying, nonhardening, nonskinning, nonstaining, gunnable, synthetic rubber sealant recommended for sealing interior concealed joint to reduce transmission of airborne sound.

5. Sealant Backings: Nonstaining; compatible with joint substrates, sealants, primers, and other joint fillers; approved for applications indicated by sealant manufacturer based on field experience and laboratory testing.

6. Primer: As recommended by joint sealant manufacturer where required for adhesion of sealant to joint substrates indicated.

7. Sealant Installation Standard: Comply with ASTM C 1193.

8. Acoustical Sealant Application Standard: Comply with ASMT C 919 for use of joint sealants in acoustical applications.

DIVISION 8 - DOORS AND WINDOWS

1. See drawings for new window specifications and details.

SECTION 08211 - FLUSH WOOD DOORS

1. NWMDA Quality Standard for Flush Wood Doors: NWMDA I.S. 1-A, "Architectural Wood Flush Doors."

2. Doors for Opaque Finish: Grade -Custom; Faces -Hardboard.

3. Interior Solid-Core Veneer-Faced Doors:

   1. Core: Solid Particle Core.

   2. Construction: Five or seven plies with stiles and rails bonded to core, then entire unit abrasive planed before veneering.

4. Install wood doors to comply with manufacturer's written instructions, referenced quality standard, and as indicated.

SECTION 08710 - DOOR HARDWARE

1. Hardware to comply with INFINITI IREDI (Infiniti Retail Environmental Design Initiative) Technical Guide.

2. Provide the following door hardware, or approved equal:

   1. Lockset Designs: Schlage Heavy Duty D-Series, Cylindrical Lockset.

   2. Lever Design: Schlage, D-Series, Athens

   3. Butts:

      1. Stanley, 4-1/2" standard weight hinge, FB8179 for 3'-0" wide doors.

      2. Stanley "5" heavy Duty FB8168 for 3'-6" wide doors.

   4. Wall Mounted Door stop: Ives #407 (convex) or #407-1/2 (concave, wall type flush bumper concealed screws, convex design typical (concave design for doors with push button locks).

   5. Door Closer: LCN Super Stock Closer (non-hazard, non-sized, for interior or exterior use, 1460/1461 Series.

   6. Floor Mounted door stop: Ives #438 Dome type floor bumper.

   7. Thermal weather-stripping (Fire Rated): National Guard Products #152 - Silicone gasket.

   9. Door Sweep (Fire Rated): National Guard Products #C607.

3. Refer to Door Schedule for hardware requirements and hardware sets. If finishes are not noted, finishes shall be selected from full range of finish options to be provided with hardware submittal.

SECTION 08800 - GLAZING

1. Glass Thicknesses: Select minimum glass thicknesses to comply with ASTME 1300.

2. Safety Glass: Category I materials complying with testing requirements in 16 CFR 1201 and ANSI Z97.1.

3. Glazing Publications: Comply with SIGMA publications: SIGMA TM-3000, "Vertical Glazing Guidelines."

4. Heat-Treated Float Glass: ASTM C 1048; Type I; Quality G3 class, kind, and condition as indicated in drawings and schedules.

5. Comply with combined written instructions of manufacturers of glass, sealants, gaskets, and other glazing materials, including those in referenced glazing publications.

6. Refer to INFINITI IREDI (Infiniti Retail Environmental Design Initiative) Technical Guide.

DIVISION 9 - FINISHES

SECTION 09255 - GYPSUM BOARD ASSEMBLIES

1. Steel Framing for Walls and Partitions: Provide steel framing members complying with the following requirements:

   1. Protective Coating: ASTM A 653, 640 (ASTM A653M, Z 90) hot-dip galvanized coating for framing members attached to and within 10 feet (3m) of exterior walls.

   2. Steel Studs and Runners: ASTM C 645, in depth indicated and with 0.0179-inch (0.1.5-mm) minimum base metal thickness, unless otherwise indicated.

      1. Provide 0.0329-inch (0.84-mm) minimum base metal thickness for head runner, sill runner, jamb, and cripple studs at door and other openings.

2. Gypsum Wallboard: ASTM C36, in thickness indicated.

3. Accessories for Interior Installation: Cornerbead, edge trim, and control joints complying with ASTM C 101. 7, formed metal with steel sheet zinc coated by hot-dip process or rolled zinc.

4. Joint Treatment Materials: Provide joint treatment materials complying with AS TM C 475.

5. Sound Attenuation Blankets: ASTM C 665, Type I, unfaced mineral fiber blanket insulation.

6. Install steel framing to comply with ASTM C 754 and with ASTM C 81.0 requirements that apply to framing installation.

7. Gypsum Board Application and Finishing Standards: Install and finish gypsum panels to comply with ASTM C 840 and GA-216.

SECTION 09511 - ACOUSTICAL PANEL CEILINGS

1. Metal Suspension System: Manufacturer's standard direct-hung suspension system complying with applicable ASTM C 635 requirements.

2. Install acoustical panel ceilings to comply with ASTM C636 per manufacturer's written instructions an CISCA's "Ceiling Systems Handbook."

SECTION 09651 - RESILIENT TILE FLOORING

1. Vinyl Composition Floor Tile: Products complying with ASTM F 1066 and with requirements specified in the Resilient Tile Flooring Schedule.

2. Vinyl Wall Base: Products complying with FS SS-W-1.O, Type II and with requirements specified in the Resilient Tile Flooring Schedule.

3. Trowelable Leveling and Patching Compounds: Latex-modified, portland-cement-based formulation provided or approved by flooring manufacturer for applications indicated.

4. Adhesives: Water-resistant type recommended by manufacturer to suite resilient products and substrate conditions indicated.

5. Tile Installation: Comply with tile manufacturer's written installation instructions.

6. Resilient Accessory Installation: Install resilient accessories according to manufacturer's written installation instructions.

SECTION 09652 - SHEET VINYL FLOORING

1. Select an installer who is competent in the installation of resilient sheet flooring using heat-welded seams.

2. Vinyl sheet flooring shall conform to the requirements of AS TM F 1913.

3. Provide solid color vinyl weld rod as produced by the manufacturer of the resilient flooring and intended for heat welding of seams. Color shall be compatible with field color of flooring.

4. Integrate flash cove base: Provide integral flash cove wall base by extending sheet flooring 4 in. up the wall using adhesive, welding rod, and accessories recommended and approved by the flooring manufacturer.

5. Provide a water-based/resin adhesive for field areas and [pressure-sensitive water-based/resin adhesive at flash coving] [a latex wall base adhesive at the wall base as d schedules recommended by the resilient flooring manufacturer.

6. Examine sub floors prior to installation to determine that surfaces are smooth and free n from cracks, holes, ridges, and other defects that might prevent adhesive bond or impair durability or appearance of the flooring material.

7. Install flooring in strict accordance with the manufacturer's written instructions.

8. Lay flooring to provide a minimum number of seams. Avoid cross seams, filler pieces, and strips. Match edges for color shadings and pattern at the seams in compliance with the manufacturer's recommendations.

9. Install flooring with adhesives, tools, and procedures in strict accordance with the manufacturer's written instructions. Observe the recommended adhesive trowel notching, open times, and working times.

10. Finish all seams flush and free from voids, recesses, and raised areas.

SECTION 09680 - CARPET

1. Project Conditions: Comply with CRI104, Section 6: "Site Conditions."

2. Carpet: Products as specified in the Carpet Schedule.

3. Concrete-Slab Primer: Nonstaining type as recommended by the carpet manufacturer.

4. Trowelable Underlayments and Patching Compounds: As recommended by the carpet manufacturer.

5. Adhesives: Water-resistant, nonstaining type to suit products and subfloor conditions indicated and to comply with flammability requirements for installed carpet as recommended by the carpet manufacturer.

6. Seaming Cement: Hot-melt adhesive tape or similar product recommended by carpet manufacturer for taping seams and butting cut edges at backing to form secure seams and to prevent pile loss at seams.

7. Concrete-Subfloor Preparation: Apply concrete-slab primer, according to manufacturer's directions, where recommended by the carpet manufacturer.

8. Direct Glue-Down Installation: Comply with CRI104, Section 8: "Direct Glue-Down".

SECTION 09800 - SPECIAL COATINGS - N/A

SECTION 09900 - PAINTING

1. Material Quality: Provide manufacturer's best-quality paint material of the various coating types specified. Paint-material containers not displaying manufacturer's product identification will not be acceptable.

2. Latex-Based Interior Flat Paint Over Gypsum Wallboard and Wood Doors: Ready-mixed, latex-based paint for use as a flat finish over prime-coated gypsum drywall and wood doors.

   1. Base Coat Primer: MAB Rich lux latex Enamel Undercoater (037-154).

   2. Second and Third Coats: MAB Rich lux acrylic luster lite (041 line).

3. Latex-Based Interior Semi-Gloss Paint Over Gypsum Wallboard: Ready-mixed, latex-based paint for use as a semi-gloss finish over prime-coated gypsum drywall.

   1. Base Coat Primer: MAB Rich lux latex Enamel Undercoater (037-154).

   2. Second and Third Coats: MAB Rich lux low luster Acrylic Enamel (028 line).

4. Interior Semi-Gloss Odorless Alkyd Enamel Over Ferrous Metal Surfaces: Low-odor, semi-gloss, alkyd enamel for use over a primer and undercoat on both ferrous and zinc-coated (galvanized) metal surfaces.

   1. Base Coat Primer: MAB Rust-O-Lastic Nydro Primer (073-9801.

   2. Second and Third Coats: MAB Rich lux Low Lustre Alkyd Enamel (021 line).

5. Painting Application: Prepare substrates and apply special coatings in accordance with manufacturer's written application instructions.

DIVISION 10 - SPECIALTIES

SECTION 10520 - FIRE-PROTECTION SPECIALTIES

1. Portable Fire Extinguishers: Provide fire extinguishers of type, size, and capacity for each cabinet and other locations indicated.

   1. Multipurpose Dry-Chemical Type: UL-rated 4-A:60-B:C, 10-lb (4.5-kg) nominal capacity; in enameled-steel container.cbac

2. Fire-Protection Cabinets: Provide manufacturer's standard box (tub), with trim, frame, door, and hardware to suit cabinet type, trim, style, and door style indicated. Weld joints and grind smooth. Miter and weld perimeter door frames.

   1. Fire-Rated Cabinets: Listed and labelled to meet requirements of ASTM E 814 for fire-resistance rating of wall where it is installed.

   2. Cabinet Metal: Enameled-steel sheet.

3. Install in locations and at mounting heights indicated or ,if not indicated, at heights acceptable to authorities having jurisdiction.

   1. Prepare recesses for cabinets as required by type and size of cabinet and trim style.

   2. Fasten mounting brackets to structure and cabinets, square and plumb.

4. Basis of Design

   1. Fire Extinguisher Cabinet

      1. Cabinet design is based on Larsen #FS 2409-R4 (semi-recessed cabinet -R.O. 26-1/8" x 11-5/8" x 4") Vertical Duo trim and door style with stainless steel finish and recessed handle or approved equal.

   2. Fire Extinguisher

      1. Provide multi-purpose, dry chemical 10 lb. fire extinguishers. Larsen #MP10 or approved equal in alt locations indicated on the plans.

   2. Extinguishers not located in cabinets shall be equipped with manufacturer's standard wall-mounted bracket.

DIVISION 11 - EQUIPMENT

1. Refer to INFINITI IREDI (Infiniti Retail Environmental Design Initiative) Technical Guide.

DIVISION 12 - FURNISHINGS

SECTION 12345 - CASEWORK AND FIXTURES

1. Casework shall be comprised from new and existing, refer to drawings for relocated casework.

2. Work includes the fabrication and installation of standard furniture components of base cabinets, storage cabinets, tables, cabinet understructures, shelf units, end and back panels, aprons, support legs, and other units as indicated. Project consists of wood cabinets as indicated on drawings.

1 SPECIFICATIONS
A-12 Scale: N.T.S.

2810c-StdSht.dwg
07-18-08

FINAL 07/22/2008
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Architects & Engineers
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523 Kimberton Road, Suite 11B Phoenixville, PA 19460
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APPROVED BY: Robin J. Kohn, AIA
CURRENT DATE: July 18, 2008

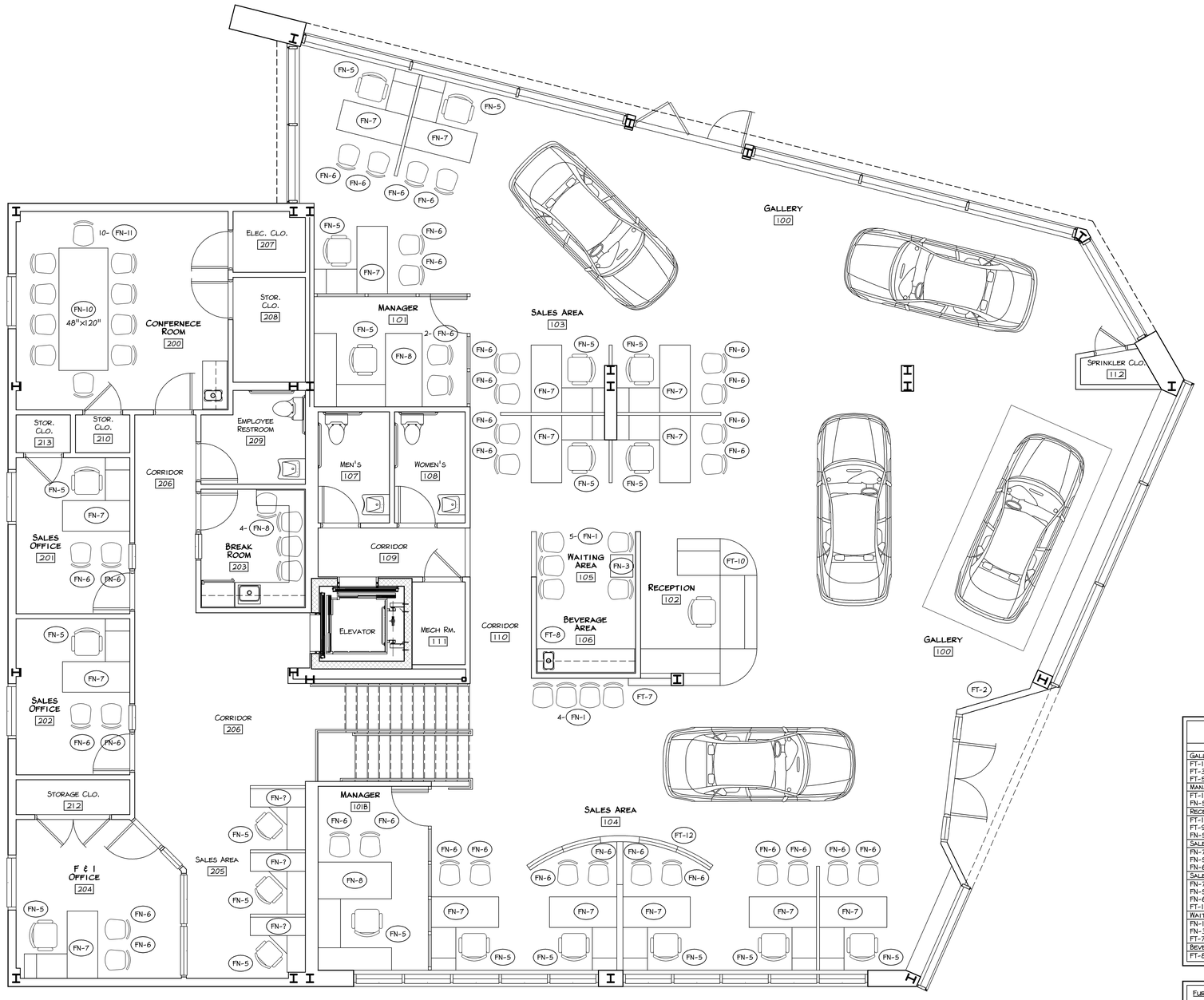
INFINITI of Ardmore
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LOWER MERION TOWNSHIP
MONTGOMERY COUNTY

SHEET TITLE
SPECIFICATIONS

SHEET NUMBER
A-12

REV 5



1 F-11 SHOWROOM FLR FURNITURE PLAN
Scale: 1/4"=1'-0" ALTERNATE LAYOUT

FURNITURE LIST

AREA	QUANTITY	AREA	QUANTITY
GALLERY AREA (100)		BREAK ROOM (200)	
FT-1 VEHICLE INFO DISPLAY	(1) 8"x46"	FN-10 CONF RM TABLE	(1)
FT-3 MEDIA WALL	(1) 8"x54"	FN-11 CONF RM CHAIRS	(8)
FT-5 ACCESSORY DISPLAY	(1) 12"x36"	SALES OFFICE (201)	
MANAGERS AREA (101)		FN-7 SALES OFFICE DESK	(1)
FT-11 MANAGERS COUNTER	SEE DRWGS.	FN-5 SALES OFFICE CHAIR	(1)
FN-5 MANAGER'S CHAIRS	(3)	FN-6 GUEST CHAIR	(2)
RECEPTION AREA (102)		SALES OFFICE (202)	
FT-10 RECEPTION COUNTER	SEE DRWGS.	FN-7 SALES OFFICE DESK	(1)
FT-9 MERCHANDISE DISPLAY	SEE DRWGS.	FN-5 SALES OFFICE CHAIR	(1)
FN-5 RECEPTION CHAIR	(1)	FN-6 GUEST CHAIR	(2)
SALES AREA (103)		BREAK ROOM (203)	
FN-7 SALES ASSOC. DESK	(6)	FN-9 BREAK RM TABLE	(1)
FN-5 SALES ASSOC CHAIR	(6)	FN-8 BREAK ROOM CHAIRS	(4)
FN-6 GUEST CHAIR	(12)		
SALES AREA (104)		FEI OFFICE (204)	
FN-7 SALES ASSOC. DESK	(6)	FN-7 SALES OFFICE DESK	(2)
FN-5 SALES ASSOC CHAIR	(6)	FN-5 SALES OFFICE CHAIR	(2)
FN-6 GUEST CHAIR	(12)	FN-6 GUEST CHAIR	(4)
FN-12 SALES WALL PARTITION	(1)	FT-1 VEHICLE INFO WALL	(2)
WAITING AREA (105)		SALES AREA (205)	
FN-1 LOUNGE CHAIR	(5)	FN-7 SALES ASSOC. DESK	(1)
FN-3 SIDE TABLE	(1)	FN-5 SALES ASSOC. CHAIR	(1)
FT-7 MAGAZINE RACK	(1)	FN-6 GUEST CHAIR	(2)
BEVERAGE AREA (106)			
FT-8 BEVERAGE CENTER	SEE DRWGS.		

FURNITURE NOTES:

1. FURNITURE IS NOT PART OF THE GENERAL CONTRACTORS CONTRACT.
2. ALL FURNITURE IS TO BE NEW UNLESS NOTED OTHERWISE. OWNER WILL COORDINATE WITH VENDOR.

FINAL 08/15/2008
ISSUED FOR CONSTRUCTION

Betzwood Associates PC
Architects & Engineers
Robin J. Kohn, AIA — Regis W. Kubit, PE
523 Kimberton Road, Suite 11B Phoenixville, PA 19460
tel. (610) 917-8831 fax (610) 917-8836
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APPROVED BY: Robin J. Kohn, AIA
CURRENT DATE: August 15, 2008

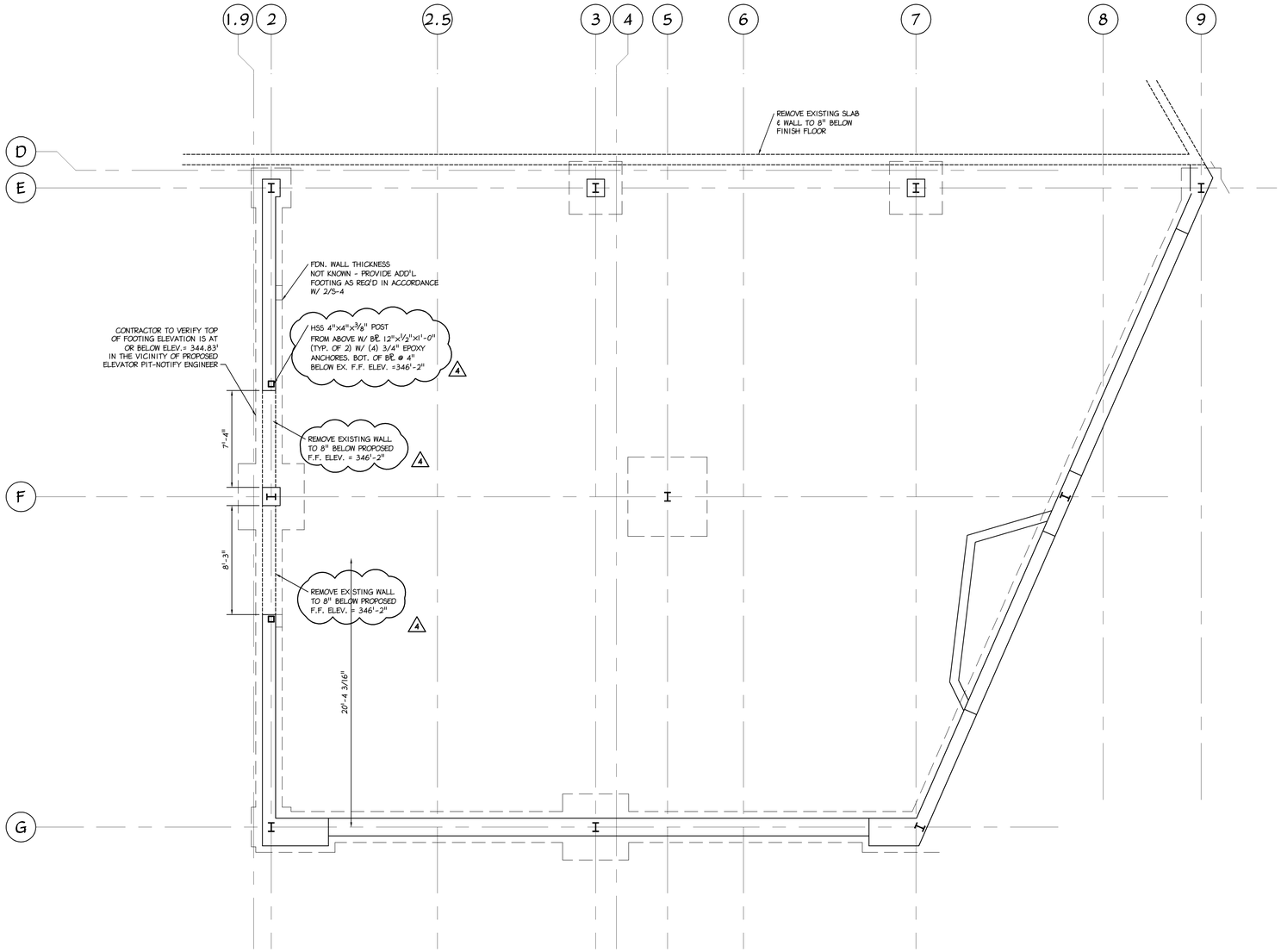
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LOWER MERION TOWNSHIP
MONTGOMERY COUNTY

SHEET TITLE
SHOWROOM FLOOR FURNITURE PLAN ALTERNATE LAYOUT

SHEET NUMBER
F-1
REV 6

08-15-08 2610c-SldSht.dwg



N

1 DS-1 FOUNDATION DEMOLITION PLAN

1/4"= 1'-0"

Betzwood Associates PC
Architects & Engineers

Robin J. Kohn, AIA — Regis W. Kubit, PE

523 Kimberton Road, Suite 118 Phoenixville, PA 19460
tel (610) 917-8831 fax (610) 917-8836
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Jeffrey M. Thoms, P.E.
Commonwealth of Pennsylvania
License No. PE060309

CONTRACTOR

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(610) 917-8831

PROJECT NO.	DRAWN BY	CHK'D BY
B2610	MLK	JMT

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4	04-28-08	MJP	CONSTRUCTION REVISIONS
5			
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13			
14			
15			

APPROVED BY	CURRENT DATE
Robin J. Kohn, AIA	April 28, 2008

INFINITI of Ardmore
306 W Lancaster Avenue
Ardmore, Pennsylvania 19003

LOWER MERION TOWNSHIP
MONTGOMERY COUNTY

SHEET TITLE

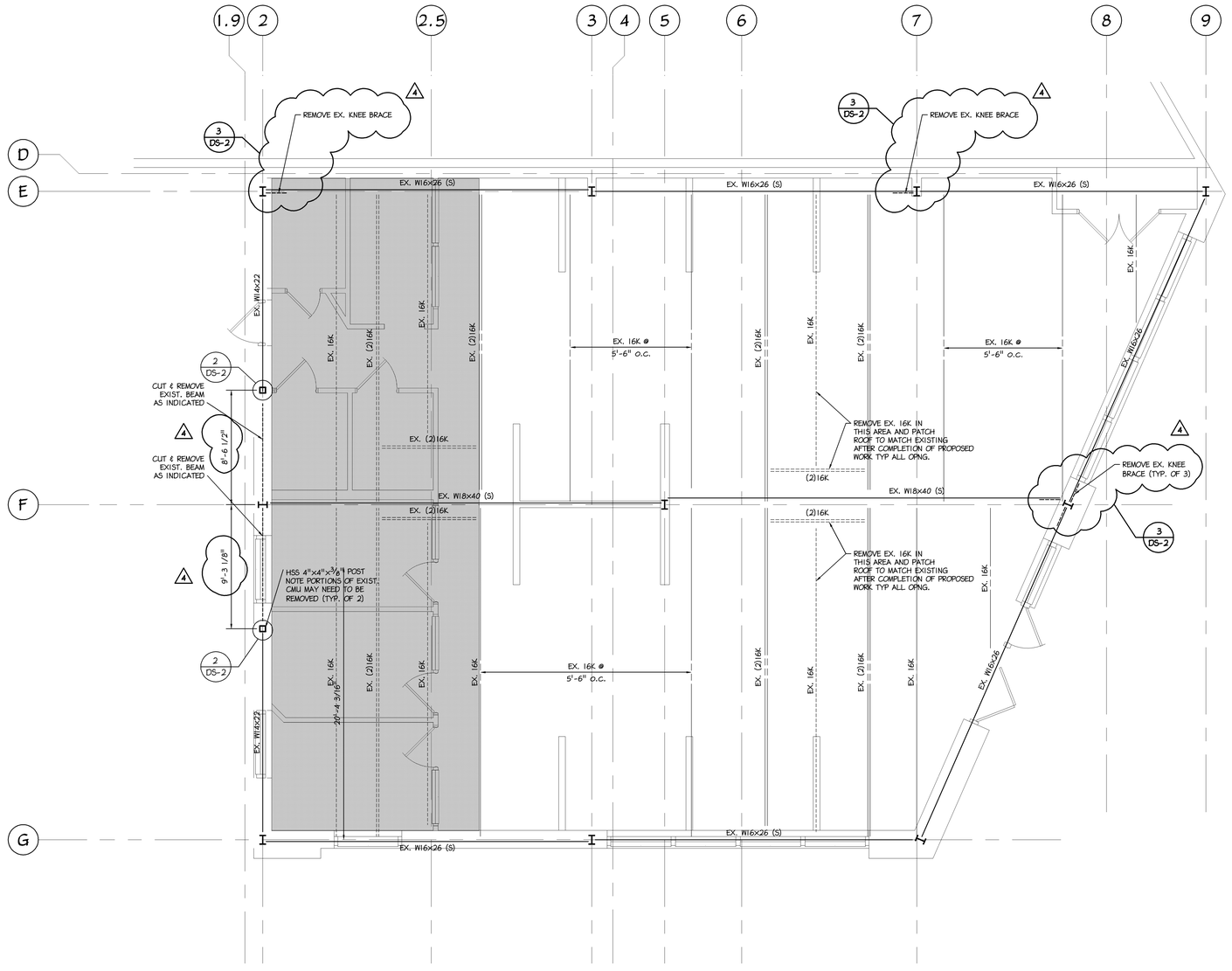
STRUCTURAL DEMOLITION PLAN

SHEET NUMBER

DS-1

REV 4

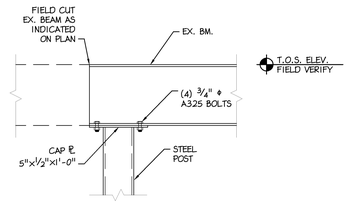
04-28-08 2610c-StSdt1.dwg



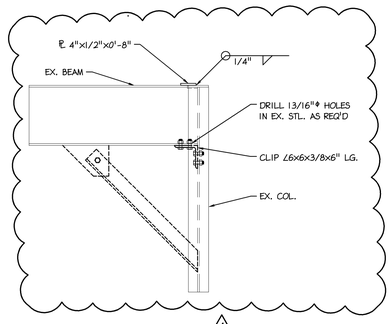
1 DS-2 **ROOF DEMOLITION PLAN**
1/4"= 1'-0"

NOTES:

1. ▨ DENOTES EXTENT OF EXIST. ROOF STR. TO BE REMOVED INCLUDING METAL DECK AND STEEL JOISTS AS INDICATED. STEEL BEAMS SHALL REMAIN U.N.O.



2 DS-2 **DETAIL**
3/4" = 1'- 0"



2 DS-2 **DETAIL**
3/4" = 1'- 0"

Betzwood Associates PC
Architects & Engineers
Robin J. Kohn, AIA — Regis W. Kubit, PE
523 Kimberton Road, Suite 11B Phoenixville, PA 19460
tel (610) 917-8831 fax (610) 917-8836
email mail@betzwood.com http://www.betzwood.com

Jeffrey M. Thoms, P.E.
Commonwealth of Pennsylvania
License No. PE060309

CONTRACTOR

Frank Mariani, Inc.
1479 Wilmington Pike
West Chester, PA 19382
T. 610 322 - 2285 F. 610 675 - 7109

Contact Person:
Edward M. Happ
(610) 917-8831

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INFINITI of Ardmore
306 W Lancaster Avenue
Ardmore, Pennsylvania 19003

LOWER MERION TOWNSHIP
MONTGOMERY COUNTY

SHEET TITLE

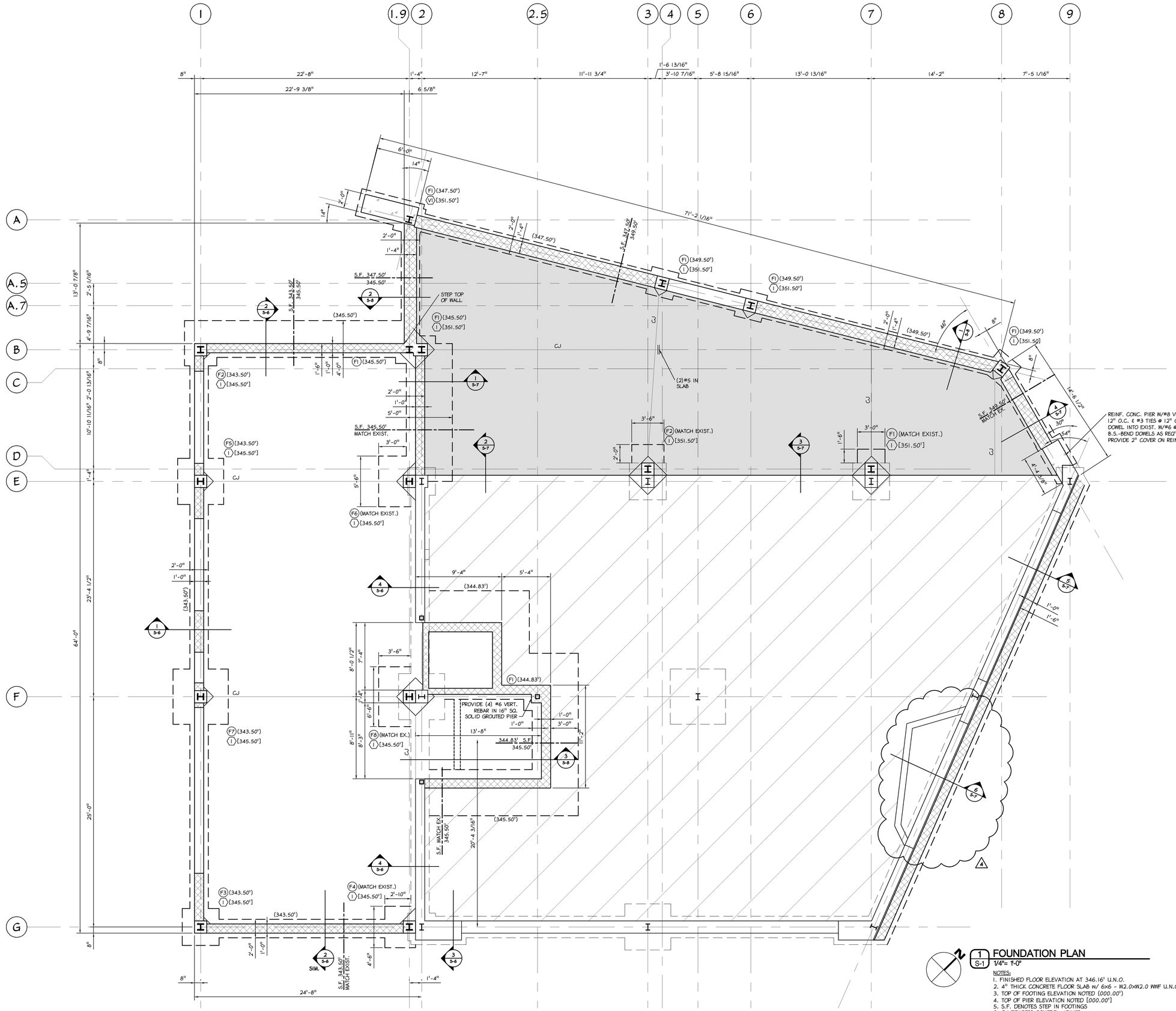
STRUCTURAL ROOF DEMOLITION PLAN

SHEET NUMBER

DS-2

REV 4

04-28-08 2610c-StrSht.dwg



1 S-1 FOUNDATION PLAN

1/4"= 1'-0"

NOTES:

1. FINISHED FLOOR ELEVATION AT 346.16' U.N.O.
2. 4" THICK CONCRETE FLOOR SLAB w/ 6x6 - W2.0xW2.0 WWF U.N.O.
3. TOP OF FOOTING ELEVATION NOTED (000.00')
4. TOP OF PIER ELEVATION NOTED [000.00']
5. S.F. DENOTES STEP IN FOOTINGS
6. CJ DENOTES CONTROL JOINTS
7. EXISTING CONC. FLOOR TO BE REMOVED AND REPLACED FOLLOWING INSTALLATION OF RETAINING WALL
8. EXISTING CONC. FLOOR
9. DENOTES F.F. ELEV. = 352'-2" TO MATCH EXISTING

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MONTGOMERY COUNTY

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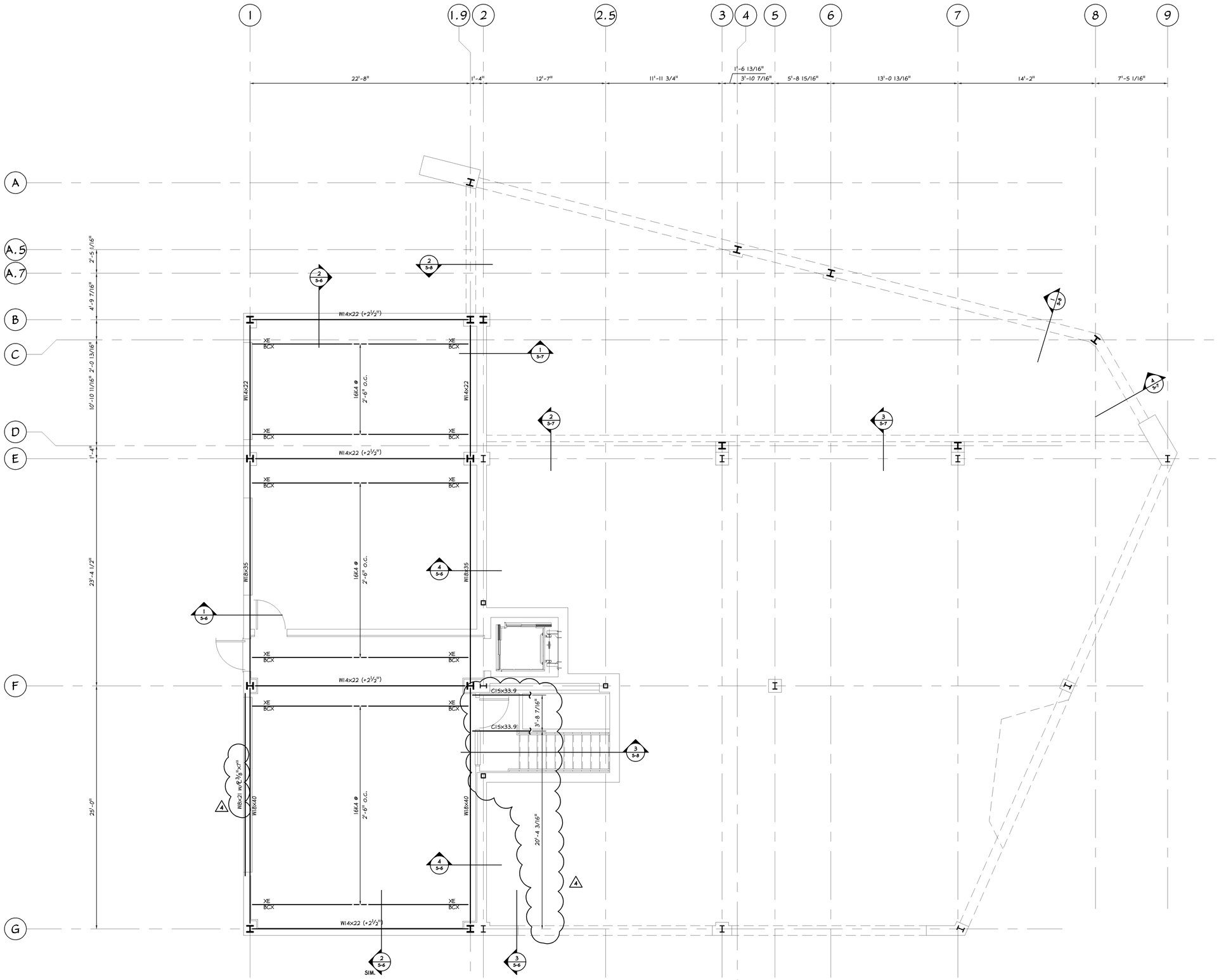
FOUNDATION PLAN

SHEET NUMBER

S-1

REV 4

04-28-08 2610s-S1dbl.dwg



1 FIRST FLOOR FRAMING PLAN

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

NOTES:

1. FINISHED FLOOR ELEVATION AT 359'-2" U.N.O. w/ 4" CONCRETE SLAB w/ 6x6 W2.0xW2.0 ON 9/16"x26 GA PAINTED METAL FORM DECK
2. TOP OF STEEL ELEVATION 358'-7½" U.N.O.
3. VARIATIONS IN TOP OF STEEL ELEVATION NOTED AS (±0'-0")
4. STEEL JOISTS SHALL BE SPACED AT 2'-6" MAX. U.N.O.
5. XE DENOTES JOIST EXTENDED END
6. BCX DENOTES JOIST BOTTOM CHORD EXTENSION - SEE 9/S-5
7. SEE LOOSE LINTEL SCHEDULE FOR LINTELS NOT SHOWN ON PLAN

04-28-08 2610c-S1ES1.dwg

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MONTGOMERY COUNTY

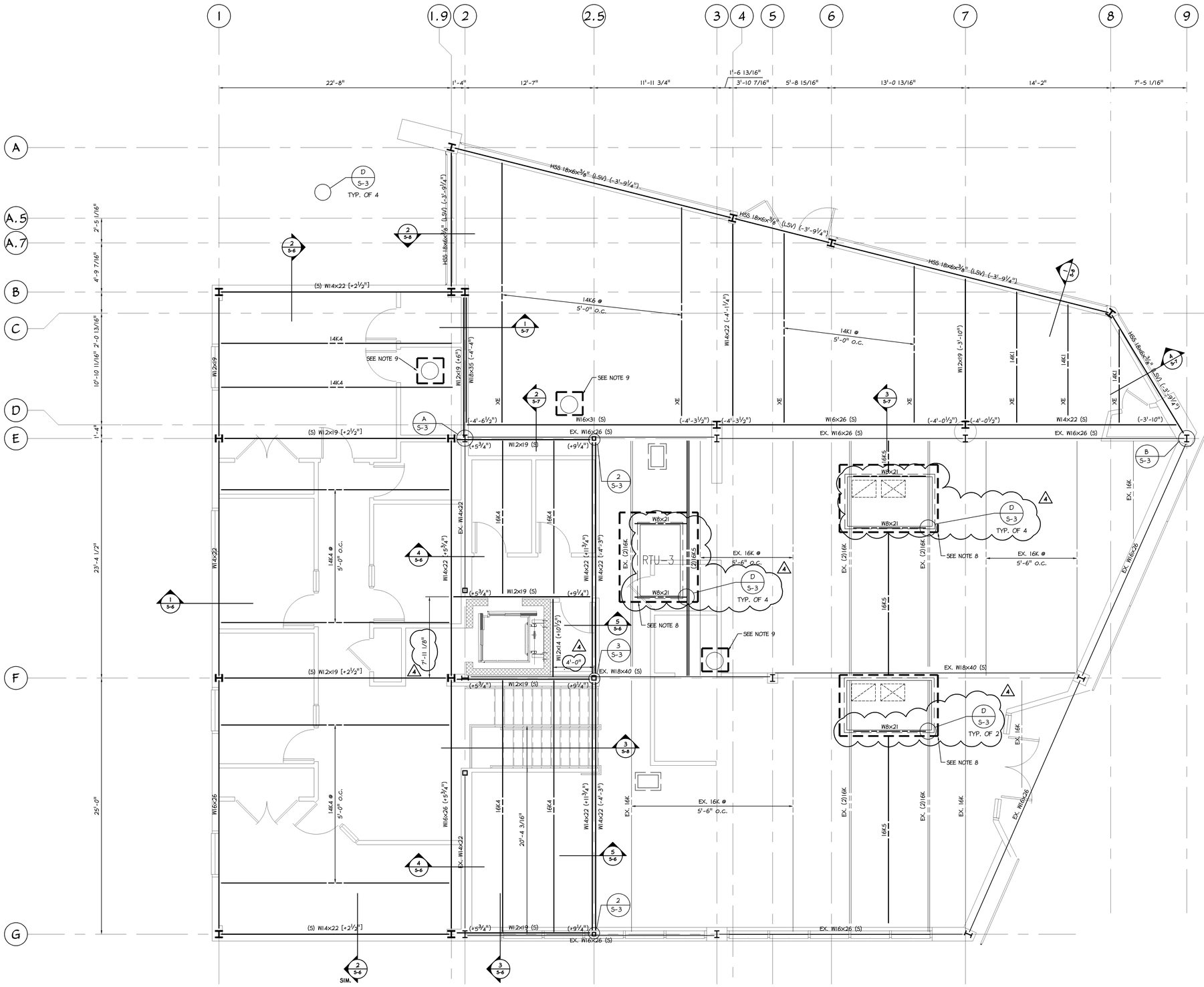
SHEET TITLE

FIRST FLOOR
FRAMING PLAN

SHEET NUMBER

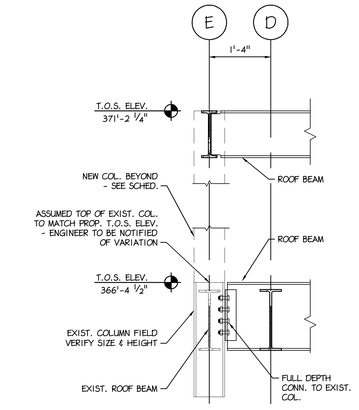
S-2

REV 4

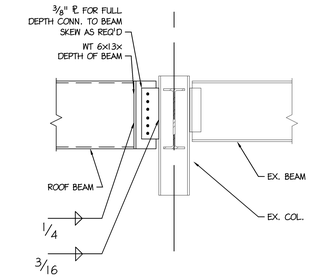


1 ROOF FRAMING PLAN
S-3 1/4"= 1'-0"

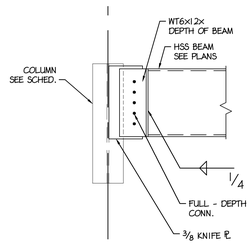
NOTES:
1. TOP OF STEEL ELEVATION 370'-8 1/2" U.N.O.
2. ROOF FRAMING TO HAVE 1 1/2"×22 GA GALV TYPE B METAL ROOF DECK.
3. VARIATIONS IN TOP OF STEEL ELEVATION NOTED AS (±0'-0")
4. (S)W••x•• [+•"] DENOTES SLOPING BEAMS AT THE SAME ELEVATION AS THE ADJACENT BAR JOIST
5. BCX DENOTES JOIST BOTTOM CHORD EXTENSION
6. XE DENOTES JOIST EXTENDED END
7. ROOF JOISTS SHALL BE SPACED AT 5'-0" MAX. U.N.O.
8. PROVIDE ROOF TOP CURB SUPPORT AS PER DETAIL 10/S-5
9. PROVIDE DECK SUPPORT AS PER DETAIL 11/S-5



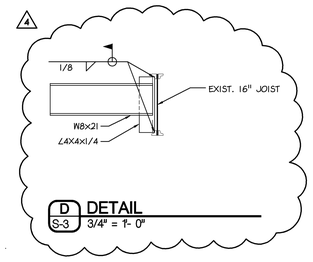
A DETAIL
S-3 3/4" = 1'-0"



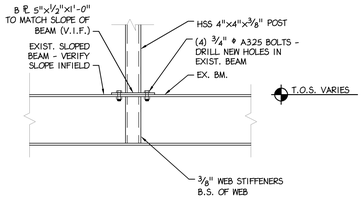
B DETAIL
S-3 3/4" = 1'-0"



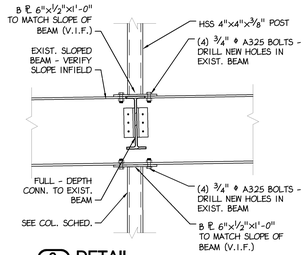
C TYPICAL HSS BEAM TO WF COL. CONN.
S-3 3/4" = 1'-0"



D DETAIL
S-3 3/4" = 1'-0"



2 DETAIL
S-3 3/4" = 1'-0"



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

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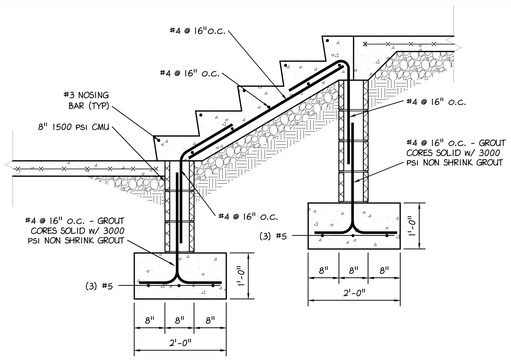
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MONTGOMERY COUNTY

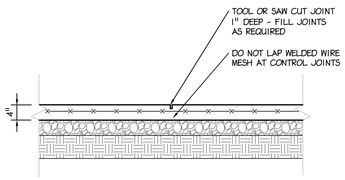
SHEET TITLE
ROOF FRAMING PLAN

SHEET NUMBER
S-3
REV 4

04-28-08
2610c-S1dSH.dwg

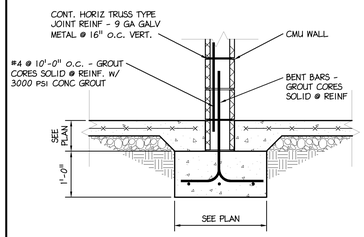


1 CMU CONCRETE STAIRS
S-4 3/4" = 1'-0"

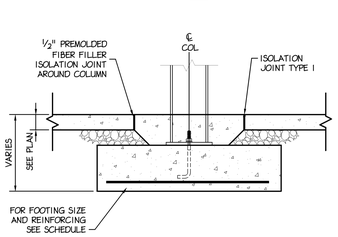


NOTE: CONTROL JOINT SHALL BE CUT WITHIN 24 HOURS OF PLACING CONCRETE

5 TYPICAL CRACK CONTROL JOINTS
S-4 3/4" = 1'-0"

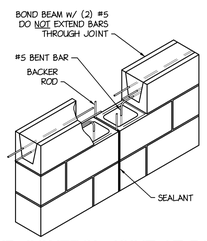


9 INTERIOR WALL FOOTING
S-4 3/4" = 1'-0"

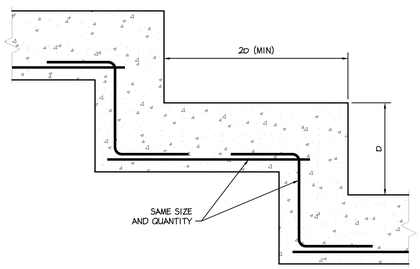


10 TYP. INTERIOR COLUMN FOOTING
S-4 3/4" = 1'-0"

14 TYPICAL CMU WALL CONTROL JOINT
S-4 3/4" = 1'-0"



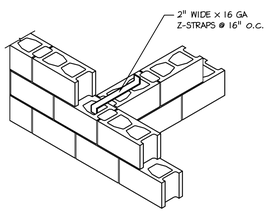
18 TYP. CONTROL JOINT AT BOND BEAM
S-4 3/4" = 1'-0"



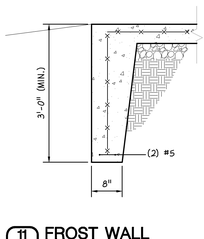
6 STEP FOOTING DETAIL
S-4 3/4" = 1'-0"

* NOTE:
THE SELECTED ANCHOR SHOULD PERMIT IN-PLANE HORIZONTAL AND VERTICAL MOVEMENT BETWEEN THE COLUMN AND MASONRY WHILE PREVENTING OUT-OF-PLANE MOVEMENT PERPENDICULAR TO THE WALL SURFACE.

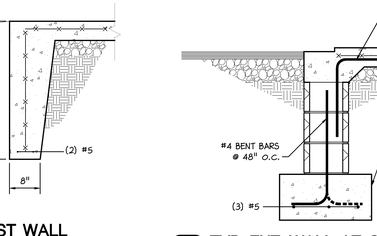
15 TYP. CONTROL JOINT AT STEEL COL
S-4 3/4" = 1'-0"



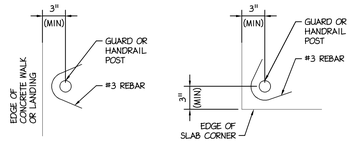
19 TYPICAL CMU WALL INTERSECTION
S-4 3/4" = 1'-0"



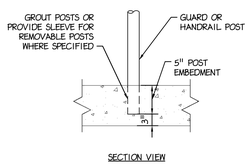
11 FROST WALL
S-4 3/4" = 1'-0"



12 TYP. EXT. WALL AT GARAGE DOOR
S-4 3/4" = 1'-0"

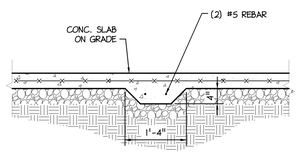


EDGE PLAN VIEW — CORNER PLAN VIEW

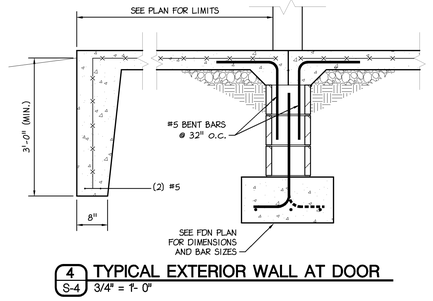


SECTION VIEW

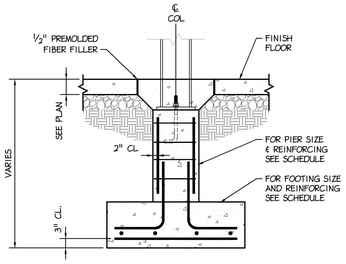
16 POST REINFORCING DETAIL
S-4 3/4" = 1'-0"



20 HAUNCH SLAB
S-4 3/4" = 1'-0"

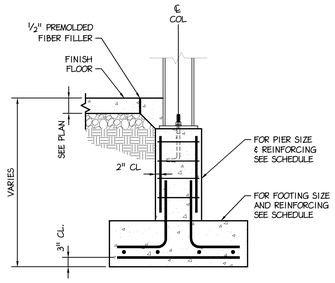


3 PIER TIE DETAILS
S-4 3/4" = 1'-0"

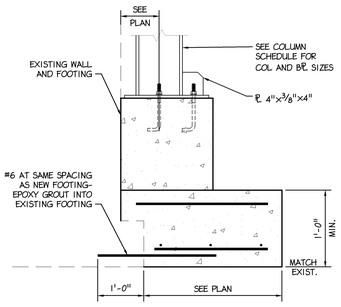


7 TYPICAL PIER DETAIL
S-4 3/4" = 1'-0"

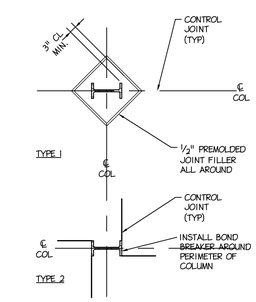
4 TYPICAL EXTERIOR WALL AT DOOR
S-4 3/4" = 1'-0"



8 TYPICAL PIER DETAIL AT EXTERIOR WALL
S-4 3/4" = 1'-0"

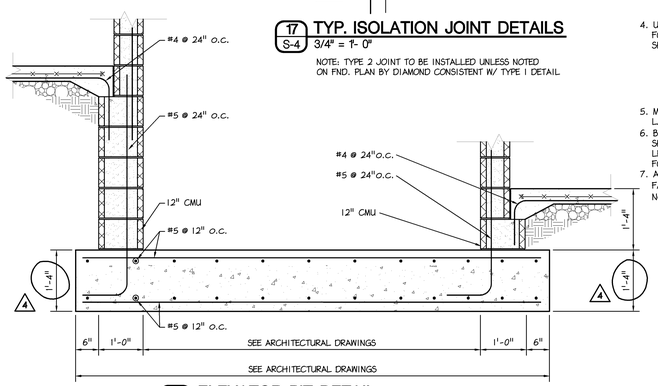


13 COLUMN PIER DETAIL @ EXIST WALL
S-4 3/4" = 1'-0"



17 TYP. ISOLATION JOINT DETAILS
S-4 3/4" = 1'-0"

NOTE: TYPE 2 JOINT TO BE INSTALLED UNLESS NOTED ON FND. PLAN BY DIAMOND CONSISTENT W/ TYPE I DETAIL



21 ELEVATOR PIT DETAIL
S-4 3/4" = 1'-0"

LIVE LOADS	APPLICABLE CODE: IBC 2006
FLOOR LIVE LOADS	
LIVE LOAD	50 PSF OFFICE 15 PSF PARTITIONS
STAIRWAY LIVE LOAD	100 PSF
MECHANICAL UNIT LOAD	SEE DRAWINGS
ROOF LOADS	
ROOF LIVE LOAD	20 PSF (MIN)
ROOF SNOW LOAD	30 PSF * SNOW DRIFT
GROUND SNOW LOAD - Pg:	30 PSF
FLAT ROOF SNOW LOAD - Pf:	25 PSF
SNOW EXPOSURE FACTOR - Ce:	1.0
SNOW LOAD IMPORTANCE FACTOR - I:	1.0
THERMAL FACTOR - Ct:	1.0
WIND LOAD	
BASIC WIND SPEED - V (3-SEC. GUST):	90 MPH
WIND LOAD IMPORTANCE FACTOR	1.0
WIND LOAD EXPOSURE CATEGORY	B
INTERNAL PRESSURE COEFFICIENT	± 0.25
WIND DESIGN PRESSURE	25 PSF MIN. FOR COMPONENTS & CLADDING
SEISMIC LOAD	
SEISMIC DESIGN CATEGORY:	B
SEISMIC USE GROUP:	II
SPECTRAL RESPONSE COEFFICIENT - SDS:	0.329
SPECTRAL RESPONSE COEFFICIENT - SD1:	0.131
SITE CLASS:	D
BASIC SEISMIC FORCE RESISTING SYSTEM:	ORDINARY STEEL CONCENTICALLY BRACED FRAME
ANALYSIS PROCEDURE:	EQUIVALENT LATERAL
WIND LOAD CONTROLS DESIGNS FOR LATERAL FORCES	FORCE PROCEDURE

FOUNDATION NOTES

1. FOUNDATION SOIL BEARING PRESSURE 2000 PSF
2. FOUNDATION SHALL BE PLACED ON VIRGIN SOIL AT ELEVATIONS INDICATED ON DRAWINGS.
3. THE ENGINEER SHALL APPROVE ALL BEARING STRATA PRIOR TO PLACEMENT OF THE CONCRETE FOOTINGS.
4. INSTALL CRACK CONTROL OR CONSTRUCTION JOINTS AT 30-FOOT MAXIMUM CENTERS IN WALLS. LOCATIONS SHALL BE APPROVED BY ENGINEER.
5. TOP OF FOOTING ELEVATIONS ARE NOTED (000.00')
   TOP OF PIER OR WALL ELEVATIONS ARE NOTED [000.00']
6. ALL TOPSOIL, SOIL FILL, AND SOFT SOUBSOIL SHALL BE REMOVED AND, IF NECESSARY, REPOLACED WITH COMPACTED LOAD-BEARING FILL MATERIALS. TEST PITS OR SOIL BORINGS SHALL BE CONDUCTED TO DETERMINE THE LOCATION OF THE VIRGIN SOIL.
7. ANY UNDERCUT AND REPLACEMENT WITH COMPACTED LOAD-BEARING FILL SHALL EXTEND LATERALLY BEYOND FOOTINGS A DISTANCE AT LEAST EQUAL TO THE DEPTH OF THE UNDERCUT.
8. AFTER UNDERCUTTING AND REMOVAL OF UNSUITABLE SOIL, THE EXPOSED UNDERLYING RESIDUAL SOILS IN THE PROPOSED BUILDING AREA SHALL BE PROOFROLLED AND COMPACTED. SOFT AND/OR UNSTABLE AREAS DISCLOSED BY THE PROOFROLLING SHALL BE ROLLED UNTIL STABILITY IS OBTAINED OR UNTIL FURTHER UNDERCUT TO FIRM MATERIAL IS REACHED.
9. FOOTINGS SHALL BE BASED ON STIFF SUBSOIL OR LOAD-BEARING FILL MATERIALS WITH A MINIMUM DEPTH OF AT LEAST TWO FEET OR ONE-HALF THE FOOTING WIDTH, WHICHEVER IS GREATER, BELOW THE FOUNDATION BEARING LEVEL.
10. PLACE LOAD-BEARING FILL MATERIALS IN LAYERS NOT MORE THAN EIGHT INCHES IN LOOSE THICKNESS FOR MATERIAL COMPACTED BY HEAVY COMPACTION EQUIPMENT, AND NOT MORE THAN FOUR INCHES IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HAND-OPERATED TAMPERS. FILL MATERIAL SHALL BE MOISTENED OR AERATED AS NECESSARY.
11. EACH LIFT SHALL BE COMPACTED TO AN AVERAGE DRY DENSITY OF NOT LESS THAN 98% OF THE MAXIMUM DRY DENSITY ACCORDING TO ASTM D698 (STANDARD PROCTOR) FOR ALL FOOTING AND FLOOR SUBGRADES.
12. THE SUB-FLOOR MATERIALS SHALL CONSIST OF AT LEAST FOUR TO SIX INCHES OF GRAVEL OR CRUSHED STONE. THE SUB-FLOOR MATERIALS SHALL BE COMPACTED BY AT LEAST FOUR COVERAGES OF A HEAVY-DUTY VIBRATORY ROLLER OR UNTIL NO FURTHER COMPACTION IS OBSERVED. SEE THE DRAWINGS AND SPECIFICATIONS FOR THE VAPOR BARRIER SIZE, TYPE AND LOCATION.
13. IN AREAS WHERE SOFT/LOOSE ZONES OR POSSIBLE VOIDS EXIST AT DEPTH, NOTIFY THE STRUCTURAL ENGINEER IMMEDIATELY. SUCH AREAS SHOULD BE UNDERCUT AND REPLACED WITH COMPACTED LOAD-BEARING FILL, OR FLOWABLE CONCRETE FILL AS DIRECTED BY THE DESIGN PROFESSIONAL. IN ADDITION, FOOTINGS SHOULD BE OVERSIZED AND PROPORTIONED FOR A REDUCED ALLOWABLE BEARING CAPACITY, AS DETERMINED BY THE STRUCTURAL ENGINEER, TO BETTER DISTRIBUTE FOUNDATION LOADS AND SPAN ANY LOCALIZED SOFT/LOOSE ZONE OR VOID AREAS.

CONCRETE NOTES

1. REINFORCED CONCRETE CONSTRUCTION SHALL BE IN ACCORDANCE WITH ACI 318, LATEST EDITION
2. CONCRETE MATERIALS: Fc = 4000 PSI FOR SLABS, ALL OTHER CONCRETE: Fc = 3000 PSI
   CEMENT: ASTM C150, TYPE I
   AGGREGATE: ASTM C33
   WATER: ASTM C94
   EXTERIOR CONCRETE MIX: WATER CEMENT RATIO, 0.45 (AIR-ENTRAINED TO 4.5 % MIN)
   INTERIOR CONCRETE MIX: WATER CEMENT RATIO, 0.50
3. REINFORCING MATERIALS:
   REINFORCING BARS: ASTM A615, GRADE 60, DEFORMED
4. REINFORCING BARS SHALL BE LAPPED A MINIMUM OF 36 BAR DIAMETERS.
5. MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT AS FOLLOWS:
   CAST AGAINST EARTH: 3" CLEAR
   CONCRETE EXPOSED TO EARTH OR WATER: 2" CLEAR
   ALL OTHER CONCRETE: ¾" CLEAR
6. MINIMUM CONCRETE SLAB REINFORCEMENT SHALL BE AS FOLLOWS:
   3½" FLOOR SLAB ON METAL DECK 66-W2.9xW2.9
   4" FLOOR SLAB ON GRADE 66-W2.9xW2.9
   5" FLOOR SLAB ON GRADE 44-W4.0xW4.0
   6" FLOOR SLAB ON GRADE #4 REBAR @ 12" o.c. E.W.
7. COLD-WEATHER PLACING SHALL COMPLY WITH THE PROVISIONS OF ACI-306R. THE USE OF CALCIUM CHLORIDE, SALT, AND OTHER MATERIALS CONTAINING ANTI FREEZE AGENTS OR CHEMICAL ACCELERATORS SHALL NOT BE PERMITTED UNLESS OTHERWISE ACCEPTED IN THE MIX DESIGN.
8. HOT-WEATHER PLACING SHALL COMPLY WITH THE PROVISIONS OF ACI-305.

MASONRY NOTES

1. MASONRY CONSTRUCTION SHALL CONFORM TO "BUILDING CODE REQUIREMENTS FOR CONCRETE MASONRY STRUCTURES" (ACI 530) AND "SPECIFICATIONS FOR THE DESIGN AND CONSTRUCTION OF LOAD-BEARING CONCRETE MASONRY" (N.C.M.A.)
2. MASONRY MATERIALS:
   CONCRETE MASONRY UNITS ASTM C90, TYPE I
   MIN COMP. STRENGTH = 1500 PSI
   MORTAR - TYPE M OR S MIN. COMP. STRENGTH = 2500 PSI
   GROUT ASTM C476
   MIN COMP. STRENGTH = 3000 PSI
3. REINFORCING MATERIALS:
   REINFORCING BARS ASTM A615, GRADE 60, DEFORMED
   JOINT REINFORCING ASTM A 951, 0.148" RODS MIN.
4. UNLESS NOTED OTHERWISE ON THE DRAWINGS OR IN THE SPECIFICATIONS, THE FOLLOWING MINIMUM REINFORCING SHALL BE USED. ALL CORES WITH REINFORCING SHALL BE GROUTED SOLID.
   BENEATH BEAMS (2) #5 BARS - (1) PER CORE
   BENEATH STEEL OR CONCRETE LINTELS (1) #5 BAR
   INTERIOR NON-LOADBEARING WALLS
   VERTICAL #4 BARS AT 48" o.c.
   HORIZONTAL JOINT REINF. AT 16" o.c.
5. MASONRY WALLS SHALL BE ANCHORED TO ALL FLOORS AND ROOFS WHICH PROVIDE LATERAL SUPPORT FOR THE WALLS.
6. BOND BEAMS WITH HORIZONTAL REINFORCEMENT NOT LESS THAN (2) #5 REBAR SHALL BE PROVIDED CONTINUOUSLY AT STRUCTURALLY CONNECTED ROOF AND FLOOR LEVELS, AT THE TOP OF WALLS, AT THE BOTTOM OF WALLS OR IN THE TOP OF THE FOUNDATION WHEN DOWELING INTO THE WALL.
7. AT INTERSECTING WALLS PROVIDE CONTINUITY IN JOINT REINFORCING USING PRE-FABRICATED 'L' AND 'T' SECTIONS. AT ABUTTING WALLS USE RIGID METAL ANCHORS NOT MORE THAN 24" o.c.

Betzwood Associates PC
Architects & Engineers
Robin J. Kohn, AIA — Regis W. Kubit, PE
523 Kimberton Road, Suite 118 Phoenixville, PA 19460
tel (610) 917-8831 fax (610) 917-8836
email mail@betzwood.com http://www.betzwood.com

Jeffrey M. Thoms, P.E.
Commonwealth of Pennsylvania
License No. PE060309

CONTRACTOR

Frank Mariani, Inc.
1479 Wilmington Pike
West Chester, PA 19382
T. 610 322 - 2285 F. 610 675 - 7109

Contact Person:
Edward M. Happ
(610) 917-8831

PROJECT NO.	DRAWN BY	CHK'D BY
B2610	JMT	JMT

NO.	DATE	BY	ISSUE
1	11-16-07	EMH	ISSUED FOR PERMIT
2	01-11-08	EMH	ISSUED FOR CONSTRUCTION
3	02-18-08	EMH	REVISED ADA & EXT. LIGHTING CONDITIONS (ELEVATOR)
4	04-28-08	MJP	CONSTRUCTION REVISIONS
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			

APPROVED BY	CURRENT DATE
Robin J. Kohn, AIA	April 28, 2008

INFINITI of Ardmore
306 W Lancaster Avenue
Ardmore, Pennsylvania 19003

LOWER MERION TOWNSHIP
MONTGOMERY COUNTY

SHEET TITLE

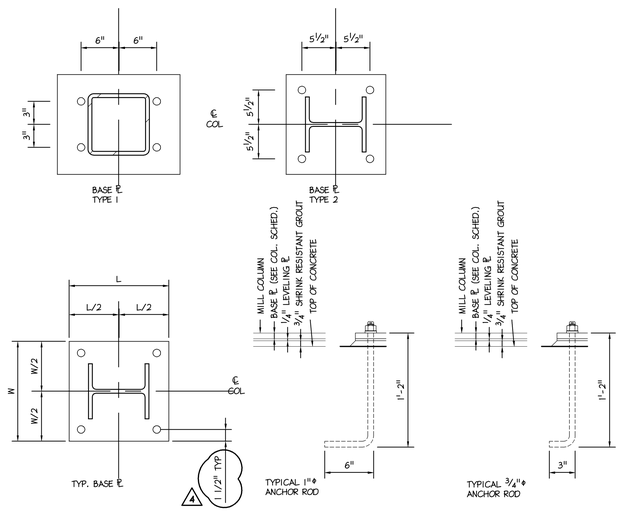
TYPICAL NOTES AND DETAILS

SHEET NUMBER

S-4

REV. 4

2610c-St&Sht.dwg
04-28-08



1 BASE PLATE DETAIL
S-5 1 1/2" = 1'- 0"

COLUMN SCHEDULE

LOCATION	B1,E1,F1,G1, B-1.9,E-1.9, F-1.9,G-1.9	F-2.5	B2,A-1.9,A.5-4 A.7-6,C8,D3,D7
HIGH ROOF			
LOW ROOF		HSS 6x6x⅜	W8x31
FIRST FLOOR		4	
EX. GROUND FL.			
LOWER LEVEL	W8x40		
CAP ℄ SIZE W x T x L	●x●x●	●x●x●	●x●x●
BASE ℄ TYPE	2	2	2
BASE ℄ W x T x L	14"x¾"x1'-2"	(14"x¾"x1'-2")	14"x¾"x1'-2"
ANCHOR BOLTS D x L x H	(4) 1"ø x1'-2" LG. W/6" HOOK	(4) ¾"ø HILTI HY150 EPOXY ANCHORS	(4) ¾"ø x1'-2" W/3" HOOK

COLUMN PIER SCHEDULE

MARK.	SIZE	REINF.	TIES
Ⓘ	16" × 16"	8 #6	(2) #3 @ 12"
Ⓘ	18" × 18"	8 #6	(2) #3 @ 12"
Ⓘ	20" × 20"	8 #7	(2) #3 @ 12"
Ⓥ	22" × 22"	8 #8	(2) #3 @ 12"
Ⓥ	24" × 24"	8 #8	(2) #3 @ 12"
Ⓥ	24" × 72"	22 #8	(2) #3 @ 12"

COLUMN FOOTING SCHEDULE

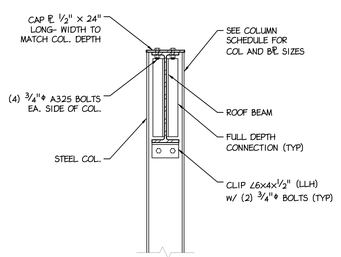
MARK.	SIZE	REINF.
F1	3'-0" × 3'-0" × 1'-0"	3 #5 (E.W.)
F2	3'-6" × 3'-6" × 1'-0"	3 #5 (E.W.)
F3	4'-0" × 4'-0" × 1'-0"	4 #5 (E.W.)
F4	4'-6" × 4'-6" × 1'-2"	5 #5 (E.W.)
F5	5'-0" × 5'-0" × 1'-2"	6 #5 (E.W.)
F6	5'-6" × 5'-6" × 1'-4"	7 #5 (E.W.)
F7	6'-0" × 6'-0" × 1'-6"	6 #6 (E.W.)
F8	6'-6" × 6'-6" × 1'-6"	7 #6 (E.W.)
F9	7'-0" × 7'-0" × 1'-8"	7 #6 (E.W.)
F10	7'-6" × 7'-6" × 1'-10"	8 #6 (E.W.)
F11	8'-0" × 8'-0" × 2'-0"	8 #6 (E.W.)

STRUCTURAL STEEL NOTES

1. STRUCTURAL STEEL CONSTRUCTION SHALL BE IN ACCORDANCE WITH AISC'S 'CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES' AND 'SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS - ALLOWABLE STRESS DESIGN', LATEST EDITION
2. STEEL MATERIALS
   - W-SHAPES: ASTM A 992, Fy=50,000 PSI
   - CHANNELS, ANGLES ASTM A 36, Fy=36,000 PSI
   - PLATE AND BAR ASTM A 36, Fy=36,000 PSI
   - COLD-FORMED HOLLOW STRUCTURAL SECTIONS ASTM A 500, GRADE B Fy=46,000 PSI
   - HOT-FORMED HOLLOW STRUCTURAL SECTIONS ASTM A 501, Fy=46,000 PSI; ASTM A 53, TYPE E OR S
   - STEEL PIPE GRADE B, Fy=36,000 PSI
3. CONNECTOR MATERIALS:
   - BOLTS ASTM F1852, TYPE 1, TENSION CONTROL HIGH STRENGTH BOLT-NUT-WASHER ASSEMBLY WITH HEX OR ROUND HEADS AND SPLINED ENDS.
   - WELDING ELECTRODES COMPLY WITH AWS REQUIREMENT
   - UNHEADED ANCHOR RODS ASTM F1554, GRADE 36, Fy=36,000 PSI
4. BEAM-TO-BEAM AND BEAM-TO-COLUMN CONNECTIONS SHALL BE AISC STANDARD FULL DEPTH CONNECTIONS, UNLESS NOTED OTHERWISE. WHERE REACTIONS ARE INDICATED ON THE DRAWINGS, THE CONNECTION SHALL BE PROVIDED BY THE FABRICATOR. DETAILS AND CALCULATIONS, PREPARED BY A LICENSED ENGINEER, SHALL BE PART OF THE SHOP DRAWING SUBMISSION.
5. ALL CONNECTIONS SHALL BE HIGH-STRENGTH FRICTION BOLTS OR WELDS OF EQUAL STRENGTH. ANCHOR BOLTS AND FIELD CONNECTIONS OF GIRTS FOR SHEAR SHALL BE UNFINISHED BOLTS.
6. ELEVATION OF TOP OF STEEL MEMBERS ARE NOTED (+ -).
7. STEEL JOISTS SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH LATEST AISC AND SJI SPECIFICATIONS.
8. JOIST BRIDGING SHALL BE DESIGNED AND INSTALLED ACCORDING TO THE LATEST SJI SPECIFICATIONS. BRIDGING SHALL NOT BE MODIFIED WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER.
9. METAL DECKING SHALL BE INSTALLED IN 3 SPAN CONDITIONS MINIMUM.

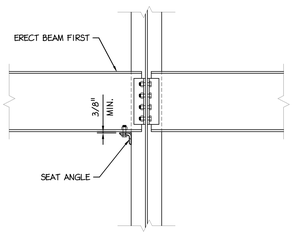
COLD-FORMED METAL FRAMING NOTES

1. COLD-FORMED METAL FRAMING DESIGN SHALL BE IN ACCORDANCE WITH AISI'S SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS, LATEST EDITION
2. COLD-FORMED METAL FRAMING MATERIALS:
   - 16 GA (0.0538 INCH) AND THICKER ASTM A653 Fy = 50,000 PSI
   - 18 GA (0.0428 INCH) AND THINNER ASTM A653 Fy = 33,000 PSI
3. MEMBERS SIZE INFORMATION INDICATED ON THE STRUCTURAL DRAWINGS SHALL BE CONSIDERED MINIMUM REQUIREMENTS, AND SHALL BE VERIFIED BY DESIGN
4. COLD-FORMED METAL FRAMING MEMBERS SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES:
   - VERTICAL FRAMING MEMBERS (STUDS): 1-⅝" FLANGE WIDTH
   - HORIZONTAL FRAMING MEMBERS (JOISTS): 2" FLANGE WIDTH
   - TRACK MEMBERS: THICKNESS TO MATCH ATTACHED FRAMING
5. SHOP DRAWINGS AND STRUCTURAL CALCULATIONS, SHALL BE PREPARED BY A QUALIFIED STRUCTURAL ENGINEER, SHALL BE SUBMITTED INCLUDING LAYOUT, SPACINGS, SIZES, THICKNESSES, AND TYPES OF COLD-FORMED METAL FRAMING; FABRICATION, AND FASTENING AND ANCHORAGE DETAILS, INCLUDING MECHANICAL FASTENERS. LOADING CRITERIA AND PERFORMANCE REQUIREMENTS ARE INDICATED IN THE SPECIFICATIONS.
6. THE PHYSICAL AND STRUCTURAL PROPERTIES LISTED BY SSMA, 'STEEL STUD MANUFACTURERS ASSOCIATION' SHALL BE USED AS THE BASIS OF DESIGN. ALL MEMBERS SHALL BE IDENTIFIED USING THE SSMA STANDARD NOMENCLATURE AND PRODUCT IDENTIFICATION
7. THE FOLLOWING MINIMUM PROPERTIES, CALCULATED IN ACCORDANCE WITH THE LATEST AISI SHALL BE PROVIDED:
   - MOMENT OF INERTIA Ix (IN.4)
   - AREA A (IN.2)
   - RESISTING MOMENT Mr (IN.-LB)
8. WHEREVER POSSIBLE BEAMS, JOISTS, AND STUDS SHALL BE POSITIONED DIRECTLY ABOVE WALL STUDS BELOW. OTHERWISE, TRACK SECTIONS MUST BE REINFORCED, WITH LOCATIONS AND DETAILS INDICATED ON THE SHOP DRAWINGS. SPLICING OF TRACK SECTIONS BETWEEN STUDS IS NOT PERMITTED.
9. AXIALLY LOADED STUDS SHALL HAVE FULL BEARING AGAINST INSIDE TRACK WEB PRIOR TO STUD AND TRACK ATTACHMENT. SPACES IN AXIALLY LOADED STUDS SHALL NOT BE PERMITTED.
10. PROVIDE STUD WALLS AT LOCATIONS INDICATED ON PLANS AS 'SHEAR WALLS' FOR FRAME STABILITY AND LATERAL LOAD RESISTANCE PRIOR TO THE INSTALLATION OF WALL OR ROOF SHEATHING. OTHERWISE TEMPORARY BRACING SHALL BE PROVIDED UNTIL ERECTION IS COMPLETED. TEMPORARY BRACING SHALL BE DESIGNED AND INCLUDED IN THE SHOP DRAWING SUBMISSION.
11. WALL STUD BRIDGING SHALL BE ATTACHED IN A MANNER TO PREVENT STUD ROTATION. BRIDGING ROWS SHALL BE SPACED ACCORDING TO THE SHOP DRAWINGS.
12. STRUCTURAL MEMBERS REINFORCING THE TOP AND/OR BOTTOM TRACK SHALL BE BUTT-WELDED AT INTERSECTIONS AND TO STRUCTURAL BEAMS, HEADERS, LINTELS, AND COLUMNS.

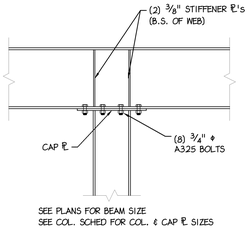


2 ROOF BEAM MOMENT CONNECTION
S-5 3/4" = 1'- 0"

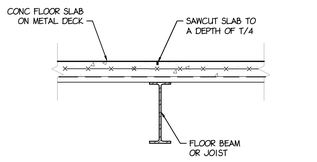
NOTE:
THIS DETAIL IS TYPICAL FOR ALL ROOF BEAM TO COLUMN CONNECTIONS U.N.O.



3 OSHA SAFETY SEAT FOR DOUBLE CONNECTIONS
S-5 3/4" = 1'- 0"

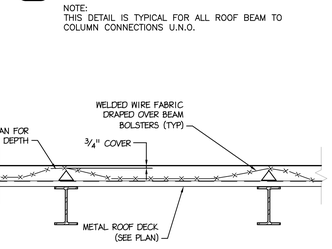


4 TYPICAL BEAM CANTILEVER
S-5 3/4" = 1'- 0"

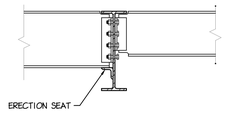


NOTES:
1. CONTROL JOINTS SHALL BE LOCATED ON ALL COLUMN CENTER LINES
2. CONTROL JOINT SPACING SHALL NOT EXCEED 20'-0" AND AS CLOSE TO SQUARE AS POSSIBLE.
3. CONTROL JOINTS SHALL BE LOCATED ABOVE THE CENTER LINE OF FLOOR FRAMING MEMBERS
4. WELDED WIRE FABRIC SHALL BE CONTINUOUS THROUGH JOINTS
5. T SHALL BE THE THICKNESS OF CONCRETE ABOVE THE RIB OF THE METAL DECK.

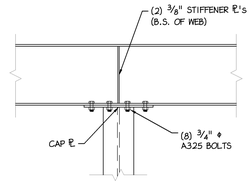
5 TYPICAL CRACK CONTROL JOINT IN ELEVATED FLOOR SLAB
S-5 3/4" = 1'- 0"



6 TYPICAL WELDED WIRE SUPPORT DETAIL
S-5 3/4" = 1'- 0"

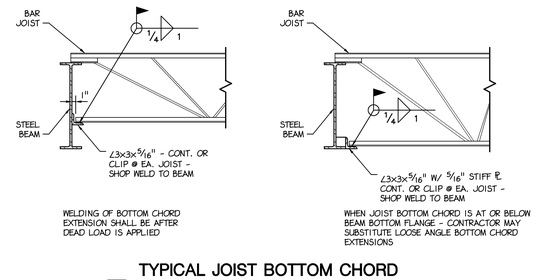


7 OSHA ERECTION SEAT FOR BEAMS TO GIRDER
S-5 3/4" = 1'- 0"



SEE PLANS FOR BEAM SIZE
SEE COL. SCHED FOR COL. ℄ CAP ℄ SIZES

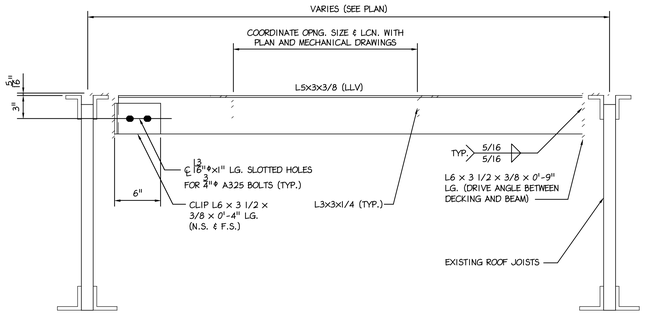
8 TYPICAL BEAM CANTILEVER
S-5 3/4" = 1'- 0"



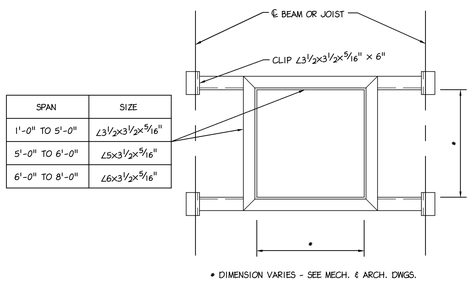
9 TYPICAL JOIST BOTTOM CHORD EXTENSION CONNECTION DETAIL
S-5 3/4" = 1'- 0"

ABBREVIATION LIST

A.F.F.	ABOVE FINISHED FLOOR	LG.	LONG
B.O.F.	BOTTOM OF FOOTING	LLH	LONG LEG HORIZONTAL
B.S.	BOTH SIDES	LLV	LONG LEG VERTICAL
CJ	CONTROL JOINT	LSH	LONG SIDE HORIZONTAL
℄	CENTERLINE	LSV	LONG SIDE VERTICAL
CMU	CONCRETE MASONRY UNIT	N.T.S.	NOT TO SCALE
CONT.	CONTINUOUS	O.C.	ON CENTER
DBA	DEFORMED BAR ANCHOR	ℙ	PLATE
E.E.	EACH END	REINF.	REINFORCING
E.F.	EACH FACE	S.F.	STEP FOOTING
E.S.	EACH SIDE	STIFF ℙ	STIFFENER PLATE
E.W.	EACH WAY	T.B.R.	TO BE REMOVED
EXIST	EXISTING	T&B	TOP AND BOTTOM
F.F.	FINISHED FLOOR	T.O.S.	TOP OF STEEL
GA	GAGE	T.O.W.	TOP OF WALL
GALV	GALVANIZED	TS	TUBE STEEL
HORIZ	HORIZONTAL	TYP	TYPICAL
H.S.S.	HOLLOW STRUCTURAL SECTION	U.N.O.	UNLESS NOTED OTHERWISE
∠	ANGLE	VERT.	VERTICAL
		WWF	WELDED WIRE FABRIC



10 ROOF TOP UTILTIY OPNG. DETAIL
S-5 1 1/2" = 1'- 0"



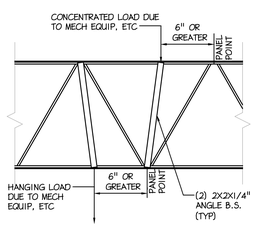
SPAN	SIZE
1'-0" TO 5'-0"	∠3½x3½x5/16"
5'-0" TO 6'-0"	∠5x3½x5/16"
6'-0" TO 8'-0"	∠6x3½x5/16"

• DIMENSION VARIES - SEE MECH. ℄ ARCH. DWGS.

NOTE: NO OPENINGS SHALL BE CUT IN FLOOR OR ROOF DECK UNLESS THEY CAN BE IMMEDIATELY PROTECTED BY THE G.C. IN ACCORDANCE W/ OSHA REQUIREMENTS

(THIS DETAIL APPLIES FOR OPENINGS 1'-0" ℄ LARGER)

11 TYP. INVERTED FRAME FOR FLOOR AND ROOF OPENINGS
S-5 3/4" = 1'- 0"



NOTE: A WEB STIFFENER MUST BE APPLIED TO ANY JOIST WHEN A CONCENTRATED LOAD IS PLACED ON THE JOIST 6" OR MORE AWAY FROM A PANEL POINT

12 LONG SPAN JOIST REINFORCING DETAIL
S-5 3/4" = 1'- 0"

STEEL LINTEL SCHEDULE FOR NON-LOADBEARING WALLS

WALL THICKNESS	CLEAR SPAN			
	4'-0" OR LESS	4'-1" TO 6'-0"	6'-1" TO 8'-0"	8'-1" TO 10'-0"
4" CMU	∠3½ × 3½ × 5/16"	∠4 × 3½ × 5/16 (LLV)	∠5 × 3½ × 5/16 (LLV)	∠5 × 3½ × 5/16 (LLV)
6" CMU	(2) ∠3½ × 2½ × 3/8" (LLV) -OR- WT7x11	(2) ∠3½ × 2½ × 3/8" (LLV) -OR- WT7x11	(2) ∠3½ × 2½ × 3/8" (LLV) -OR- WT7x11	WT7x11
8" CMU	(2) ∠3½ × 3½ × 5/16" -OR- WT7x15	(2) ∠3½ × 3½ × 5/16" -OR- WT7x15	(2) ∠5 × 3½ × 5/16" -OR- WT7x15	W8x10 w/ ¼"x0'-7" ℙ
12" CMU	(3) ∠4 × 3½ × 3/8" -OR- W8x10 w/ ¼"x0'-11" ℙ	(3) ∠4 × 3½ × 3/8" -OR- W8x10 w/ ¼"x0'-11" ℙ	(3) ∠5 × 3½ × 5/16" -OR- W8x10 w/ ¼"x0'-11" ℙ	W8x10 w/ ¼"x0'-11" ℙ

NOTES:
1. LINTEL SIZES SHALL BE AS NOTED ABOVE. LINTELS SHALL BE GALVANIZED FOR EXTERIOR EXPOSURE AS REQ'D.
2. LENGTH OF LINTEL TO BE FULL OPENING AND A MINIMUM OF 8" BEARING ON EACH END.

Betzwood Associates PC
Architects & Engineers
Robin J. Kohn, AIA
Regis W. Kubit, PE
523 Kimberton Road, Suite 11B Phoenixville, PA 19460
tel (610) 917-8831 fax (610) 917-8836
email mail@betzwood.com http://www.betzwood.com

Jeffrey M. Thoms, P.E.
Commonwealth of Pennsylvania
License No. PE060309

CONTRACTOR

Frank Mariani, Inc.
1479 Wilmington Pike
West Chester, PA 19382
T. 610 322 - 2285 F. 610 675 - 7109

Contact Person:
Edward M. Happ
(610) 917-8831

PROJECT NO.	DRAWN BY	CHK'D BY
B2610	JMT	JMT

NO.	DATE	BY	ISSUE
1	11-16-07	EMH	ISSUED FOR PERMIT
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4	04-28-08	MJP	CONSTRUCTION REVISIONS
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APPROVED BY: Robin J. Kohn, AIA
CURRENT DATE: April 28, 2008

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306 W Lancaster Avenue
Ardmore, Pennsylvania 19003

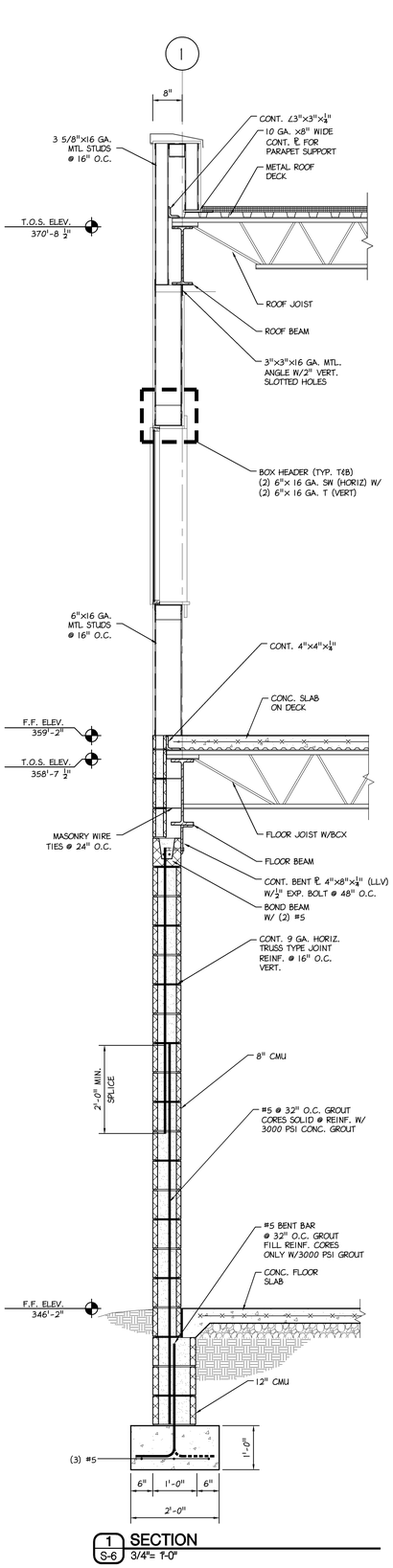
LOWER MERION TOWNSHIP
MONTGOMERY COUNTY

SHEET TITLE
TYPICAL NOTES AND DETAILS

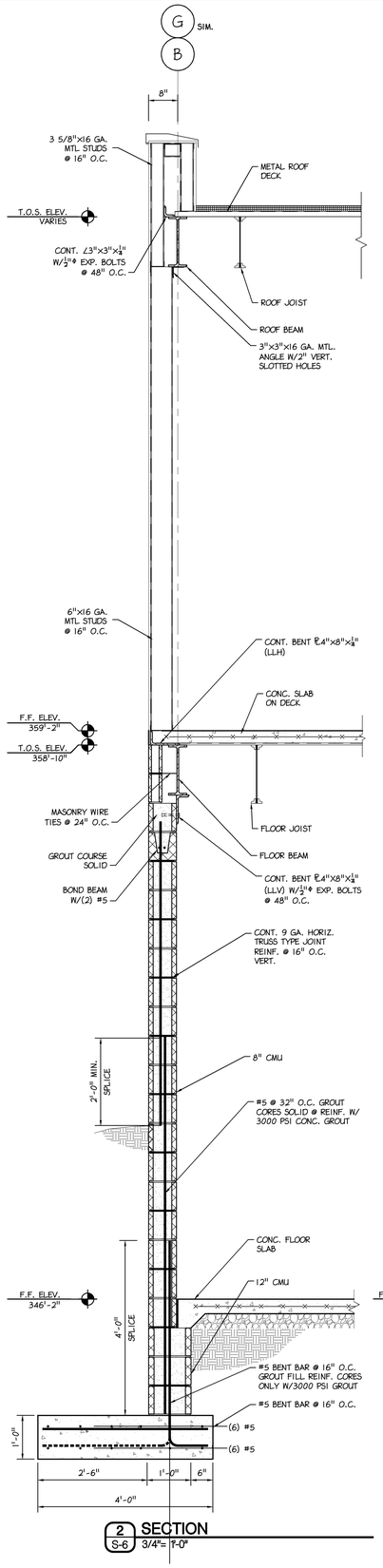
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REV 4

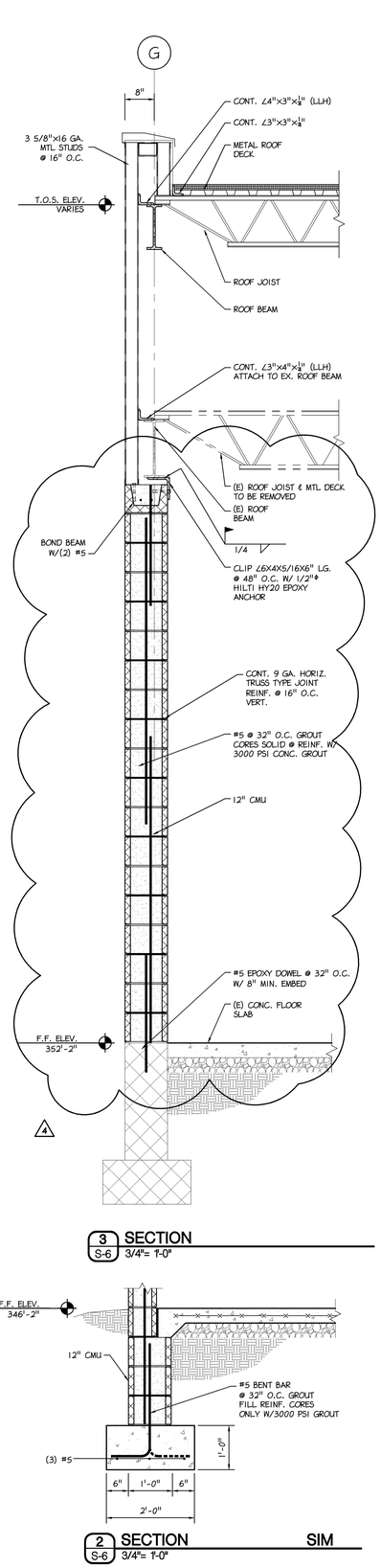
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04-28-08



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

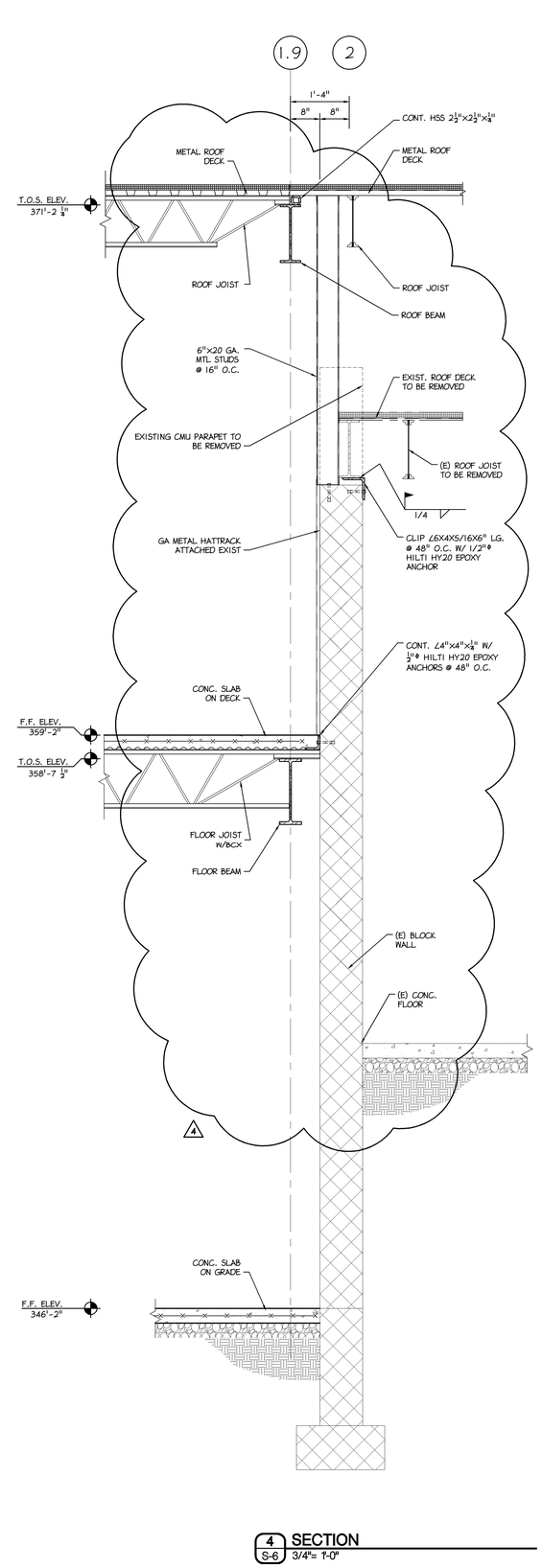


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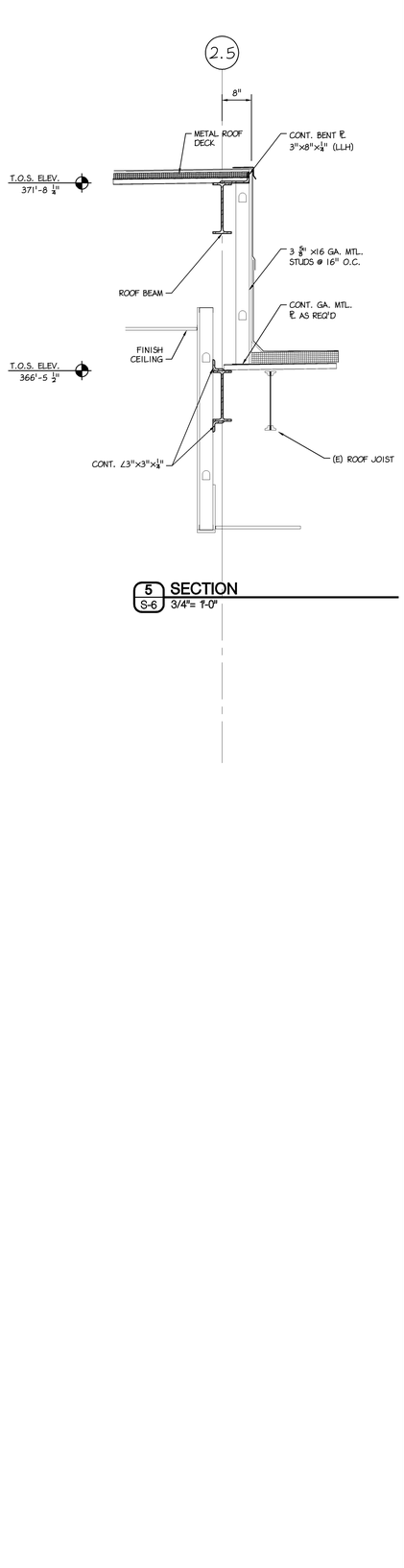


3 SECTION
S-6 3/4"= 1'-0"

2 SECTION SIM
S-6 3/4"= 1'-0"



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



5 SECTION
S-6 3/4"= 1'-0"

Betzwood Associates PC
Architects & Engineers
Robin J. Kohn, AIA
Regis W. Kubit, PE
523 Kimberton Road, Suite 118 Phoenixville, PA 19460
tel (610) 917-8831 fax (610) 917-8836
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West Chester, PA 19382
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Robin J. Kohn, AIA	April 28, 2008

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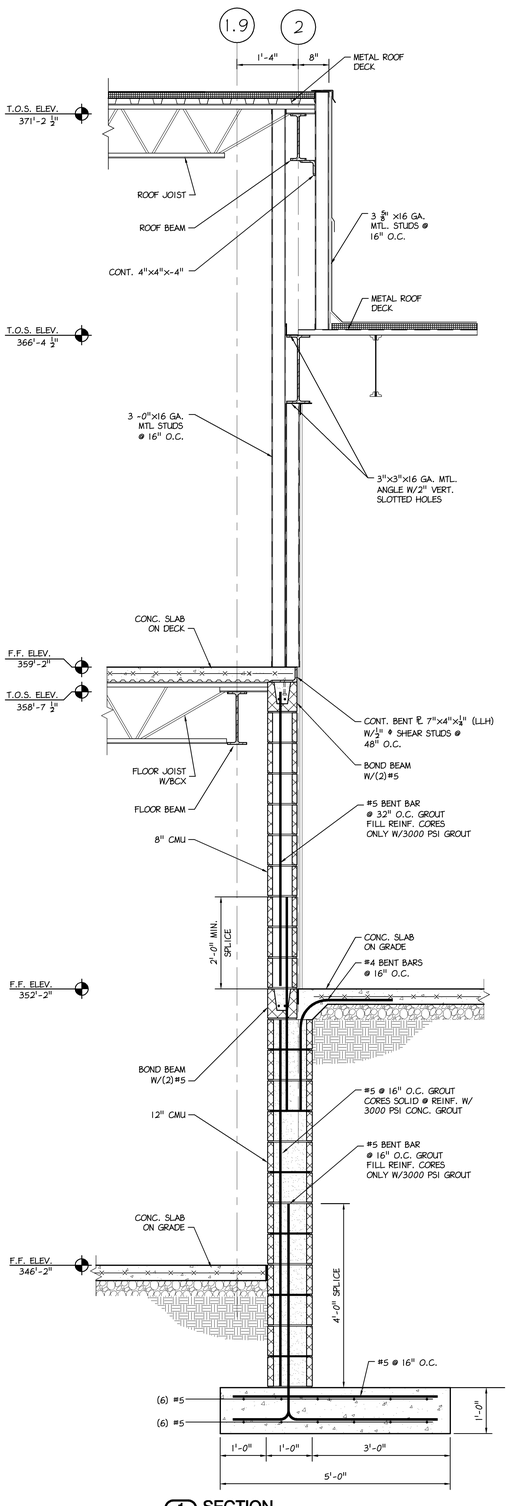
LOWER MERION TOWNSHIP
MONTGOMERY COUNTY

SHEET TITLE
WALL SECTIONS

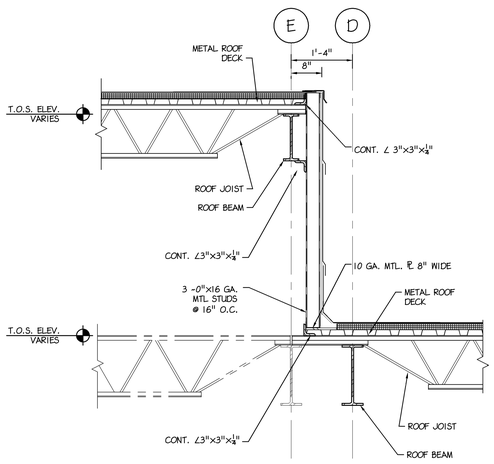
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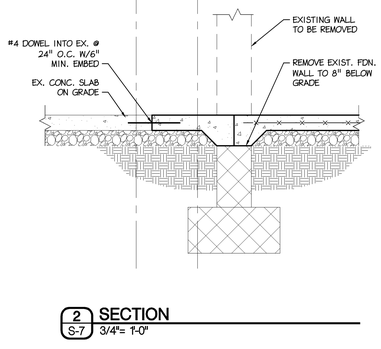
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04-28-08 2810c-Sht5ht.dwg

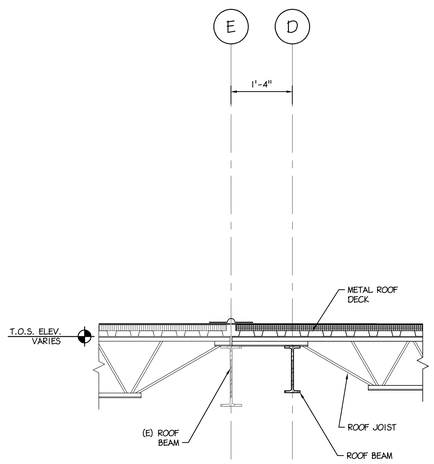


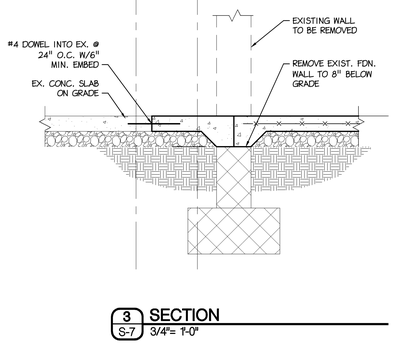
1 SECTION
S-7 3/4"= 1'-0"



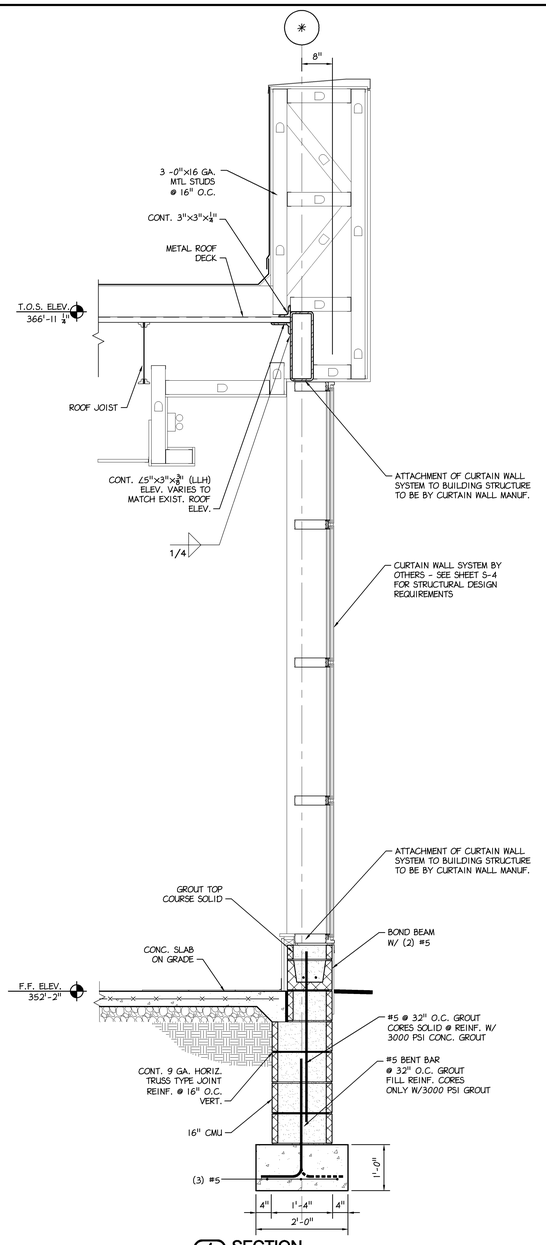


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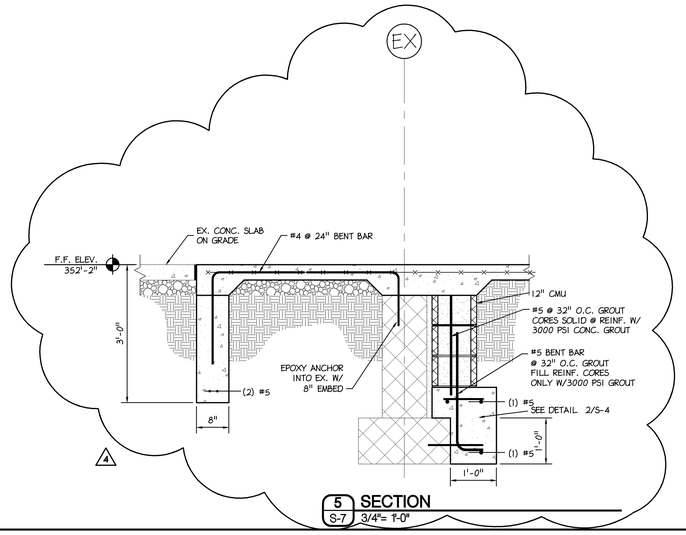




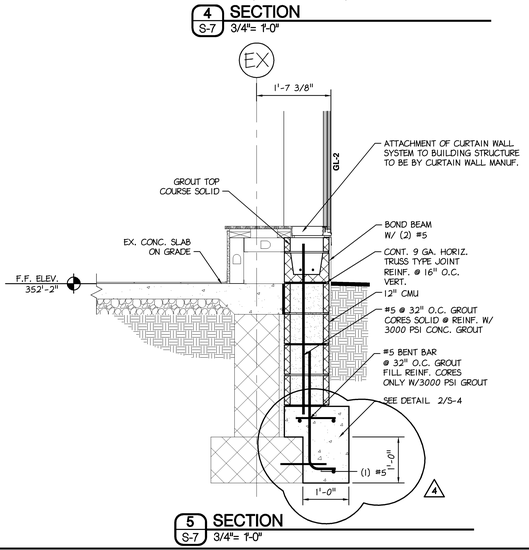
3 SECTION
S-7 3/4"= 1'-0"



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



5 SECTION
S-7 3/4"= 1'-0"



5 SECTION
S-7 3/4"= 1'-0"

Betzwood Associates PC
Architects & Engineers
Robin J. Kohn, AIA
Regis W. Kubit, PE
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tel (610) 917-8831 fax (610) 917-8836
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Jeffrey M. Thoms, P.E.
Commonwealth of Pennsylvania
License No. PE060309

CONTRACTOR

Frank Mariani, Inc.
1479 Wilmington Pike
West Chester, PA 19382
T. 610 322 - 2285 F. 610 675 - 7109

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APPROVED BY	CURRENT DATE
Robin J. Kohn, AIA	April 28, 2008

INFINITI of Ardmore
306 W Lancaster Avenue
Ardmore, Pennsylvania 19003

LOWER MERION TOWNSHIP
MONTGOMERY COUNTY

SHEET TITLE

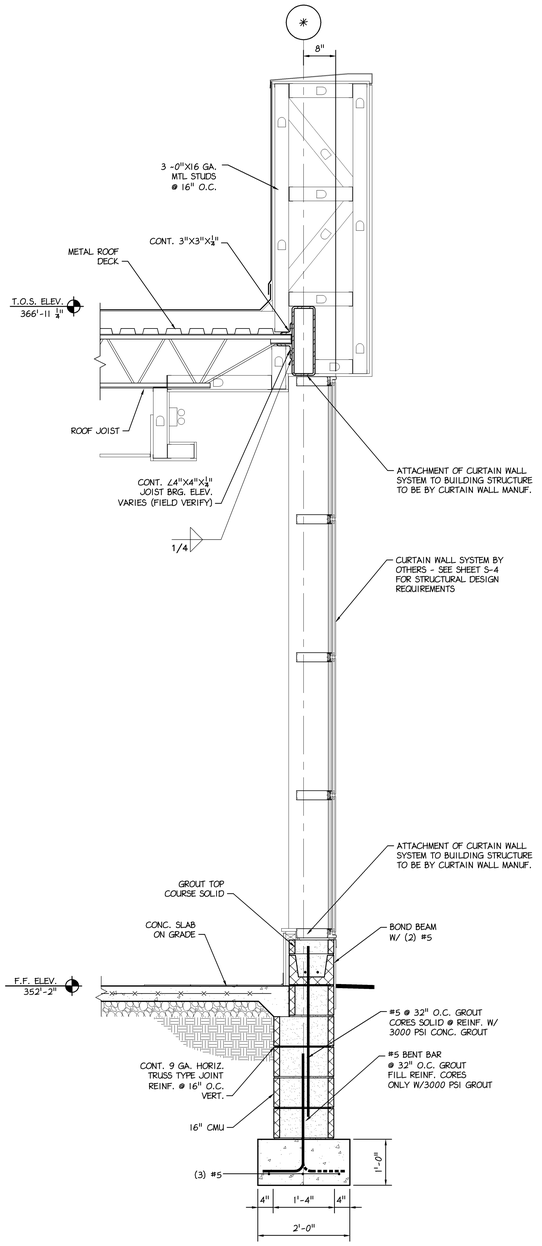
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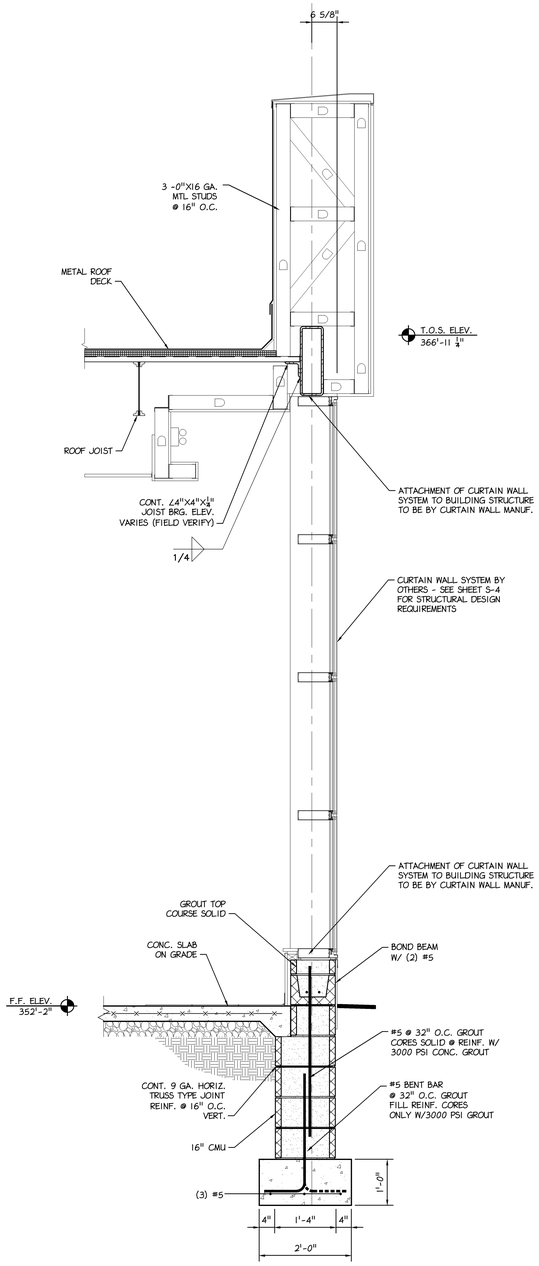
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REV 4

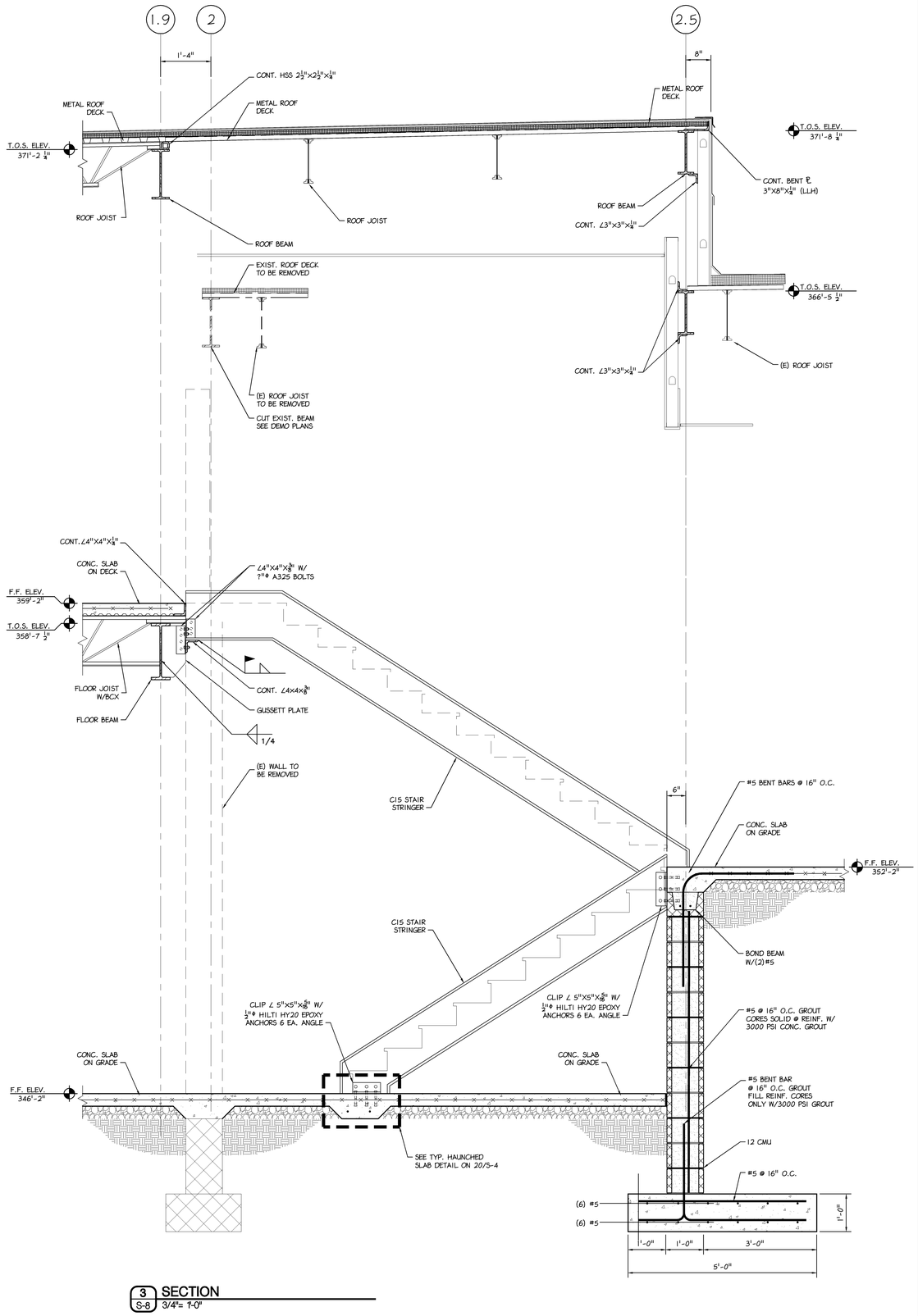
04-28-08 2610c-SHEET.dwg



1 S-8 SECTION
3/4"= 1'-0"



2 S-8 SECTION
3/4"= 1'-0"



3 S-8 SECTION
3/4"= 1'-0"

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Architects & Engineers
Robin J. Kohn, AIA
Regis W. Kubit, PE
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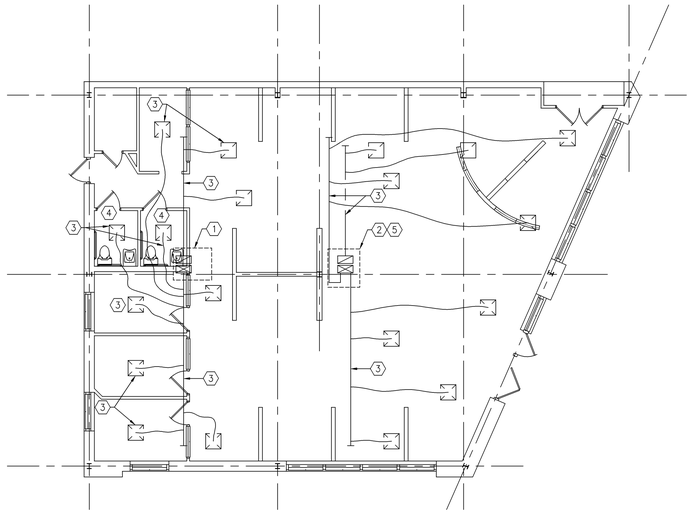
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LOWER MERION TOWNSHIP
MONTGOMERY COUNTY

SHEET TITLE
WALL SECTIONS

SHEET NUMBER
S-8
REV 4

04-28-08 2810c-S4ESN1.dwg



MECHANICAL DEMOLITION FLOOR PLAN

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

DEMOLITION NOTES:

1. REMOVE EXISTING ROOFTOP UNIT IN ITS ENTIRETY INCLUDING ROOF CURB AND PATCH ROOF IN ACCORDANCE WITH THE ROOFING MANUFACTURER'S REQUIREMENTS TO MAINTAIN THE ROOF WARRANTY. COORDINATE REMOVAL WITH G.C.
2. REMOVE EXISTING ROOFTOP UNIT IN ITS ENTIRETY INCLUDING ROOF CURB AND PATCH ROOF IN ACCORDANCE WITH THE ROOFING MANUFACTURER'S REQUIREMENTS TO MAINTAIN THE ROOF WARRANTY. RETAIN UNIT FOR REINSTALLATION. COORDINATE REMOVAL WITH G.C.
3. REMOVE ALL EXISTING SUPPLY AND RETURN DUCTWORK, DIFFUSERS AND RETURN REGISTERS IN THEIR ENTIRETY INCLUDING ALL SUPPORTS.
4. REMOVE EXISTING EXHAUST SYSTEM IN ITS ENTIRETY INCLUDING ALL DUCTWORK, SUPPORTS, CONTROLS AND WIRING.
5. CONTRACTOR SHALL COMMISSION THE EXISTING TO REMAIN ROOFTOP UNIT PRIOR TO THE START OF CONSTRUCTION. PROVIDE A WRITTEN REPORT THAT IDENTIFIES THE OVERALL CONDITION OF THE UNIT INCLUDING ALL DEFICIENCIES AND ESTIMATED COSTS FOR ANY NECESSARY REPAIRS. COMMISSIONING REPORT SHALL INCLUDE THE FOLLOWING: CONDITION AND FUNCTIONALITY OF THE UNIT, CONDITION OF BELTS, DRAIN PAN, FANS, COMPRESSORS, BURNER/HEAT EXCHANGER ASSEMBLY, ETC. CYCLE UNIT (HEATING AND COOLING MODES, EVALUATE ECONOMIZER OPERATION (INCLUDING ENTHALPY OR DRY-BULB SET POINT); BAROMETRIC RELIEF AND REFRIGERANT CHARGE.

LEGEND AND ABBREVIATIONS

- WORK BY THIS CONTRACTOR
- EXISTING WORK OR WORK DONE BY OTHERS
- PIPE, VENT OR COMBUSTION AIR SUPPLY TURNING UP
- PIPE TURNING DOWN
- (SD) DUCT SMOKE DETECTOR
- (T) THERMOSTAT
- (#) DEMOLITION NOTE
- SUPPLY DUCTWORK
- EXHAUST OR RETURN DUCTWORK
- BALANCING DAMPER (BD)
- DIFFUSER
- GRILLE OR REGISTER
- ELBOW DOWN
- DUCT TURNING UP
- TRANSITION – RECTANGULAR TO RECTANGULAR
- TRANSITION – RECTANGULAR TO ROUND
- FLEXIBLE DUCTWORK

AFF	ABOVE FINISHED FLOOR
AH	AIR HANDLER
BD	BALANCING DAMPER
BTU	BRITISH THERMAL UNIT
CFM	CUBIC FEET PER MINUTE
CLG	CEILING
CONV	CONVECTOR
CU	CONDENSING UNIT
D	DIFFUSER
DN	DOWN
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
EXG	EXISTING
G	GRILLE
IH	INFRARED HEATER
MBH	THOUSAND BRITISH THERMAL UNITS
MC	MECHANICAL CONTRACTOR
MIN	MINIMUM
O.A.	OUTDOOR AIR
PC	PLUMBING CONTRACTOR / PUMPED CONDENSATE
PL	PLACES
R	REGISTER
RL	REFRIGERANT LIQUID
RS	REFRIGERANT SUCTION
SD	SLOT DIFFUSER
RTU	ROOFTOP AIR CONDITIONING UNIT
TYP	TYPICAL
W/	WITH

REVIEW 11/16/2007
ISSUED FOR PERMIT

Betzwood Associates PC
Architects & Engineers
Robin J. Kohn, AIA
Regis W. Kubit, PE

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
REGIS WILLIAM KUBIT
ENGINEER
No. 6968-E

523 Kimberton Road, Suite 11B Phoenixville, PA 19460
tel (610) 917-8831 fax (610) 917-8836
email mail@betzwood.com http://www.betzwood.com

Regis W. Kubit, P.E.
Commonwealth of Pennsylvania
License No. PE-6968-E
MECHANICAL ENGINEER

N.E. FISHER & ASSOCIATES
MECHANICAL & ELECTRICAL ENGINEERS
329 EAST SECOND STREET
BOYERTOWN, PENNSYLVANIA 19512
(610) 369 - 3190

PROJECT No.
3213

Contact Person:
Edward M. Happ
(610) 917-8831

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APPROVED BY	CURRENT DATE
Robin J. Kohn, AIA	November 16, 2007

INFINITI of Ardmore
306 W Lancaster Avenue
Ardmore, Pennsylvania 19003

LOWER MERION TOWNSHIP
MONTGOMERY COUNTY

SHEET TITLE

DEMOLITION PLAN

SHEET NUMBER

DM-1

REV 1

11-16-07 2610c-SHSM.dwg

HEATING, VENTILATING AND AIR CONDITIONING SPECIFICATIONS

1. THE ARCHITECTURAL GENERAL CONDITIONS SHALL APPLY TO AND FORM A PART OF THIS SECTION OF THESE SPECIFICATIONS.

2. PROVIDE ALL MATERIALS, LABOR, EQUIPMENT AND TOOLS NECESSARY FOR COMPLETE AND WORKABLE SYSTEMS AS INDICATED ON THE DRAWINGS. ALL WORK SHALL BE IN ACCORDANCE WITH ALL APPLICABLE SECTIONS OF THE NATIONAL FIRE PROTECTION ASSOCIATION, NATIONAL ELECTRICAL CODE, OSHA, 2006 INTERNATIONAL MECHANICAL CODE, AND ALL OTHER LOCAL OR STATE AUTHORITIES HAVING JURISDICTION AND MANUFACTURER'S RECOMMENDATIONS.

3. THE CONTRACTOR SHALL VISIT THE SITE, EXAMINE ALL CONDITIONS AND MAKE ALLOWANCES FOR DIFFICULTIES AND CONTINGENCIES AFFECTING THE PROPER EXECUTION OF THIS CONTRACT PRIOR TO SUBMITTING A PROPOSAL.

4. THE CONTRACTOR SHALL OBTAIN AND PAY ALL FEES NECESSARY FOR PERMITS AND INSPECTIONS REQUIRED WITH HIS WORK.

5. THE CONTRACTOR SHALL VERIFY ALL UTILITY SERVICE INFORMATION SHOWN ON THE DRAWINGS WITH THE LOCAL UTILITY COMPANY PRIOR TO SUBMITTING A BID. ANY CHANGES OR SERVICE CHARGES IMPOSED BY THE UTILITY COMPANY SHALL BE QUALIFIED AND INCLUDED IN THE BID.

6. ALL EQUIPMENT SHALL BE TESTED, LISTED AND LABELED BY AN APPROVED AUTHORITY (UL, AGA, ETL) AND SHALL BE INSTALLED IN ACCORDANCE WITH ITS LISTING.

7. ALL EQUIPMENT, MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED FOR A MINIMUM OF ONE YEAR (FIVE YEARS FOR ALL COMPRESSORS) FROM THE DATE OF ACCEPTANCE BY THE OWNER.

8. WHERE PRODUCTS ARE SPECIFIED BY BRAND NAME, CATALOG NUMBERS OR BY NAMES OF MANUFACTURERS, THE REFERENCE IS INTENDED TO BE DESCRIPTIVE AND NOT RESTRICTIVE AND IS SOLELY FOR THE PURPOSE OF INDICATING THE TYPE OF QUALITY OF ITEM THAT WILL BE ACCEPTABLE. AN APPROVED EQUAL WILL BE ACCEPTED UNLESS INDICATED OTHERWISE.

9. THE CONTRACTOR RESPONSIBLE FOR WORK COVERED BY THESE SPECIFICATIONS SHALL COORDINATE AND COOPERATE WITH ALL OTHER TRADES.

10. ALL CUTTING AND PATCHING OF EVERY NATURE REQUIRED IN CONNECTION WITH THIS CONTRACT SHALL BE DONE BY THIS CONTRACTOR WITH MECHANICS EXPERIENCED IN THEIR RESPECTIVE TRADES. ALL PATCHING SHALL MATCH ADJACENT FINISHES.

11. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL NECESSARY HANGERS, INSERTS, SUPPORTS SUPPLEMENTARY STEEL, ETC., TO PROPERLY SUPPORT ALL EQUIPMENT, DUCTWORK AND PIPING IN AN APPROVED MANNER AND IN FULL ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

12. PACKAGED ROOFTOP UNITS (RTU-1,2,3)

12.1 PROVIDE PACKAGED UNITS HAVING GAS BURNER AND ELECTRIC REFRIGERATION. UNIT SHALL BE SELF-CONTAINED, CONVERTIBLE HORIZONTAL/VERTICAL DISCHARGE, PACKAGED, CABINET SHALL BE CONSTRUCTED OF GALVANIZED STEEL COATED WITH A BAKED ENAMEL FINISH. CABINETS SHALL BE INSULATED WITH ONE INCH MAT FACED FIBERGLASS AND PANELS SHALL BE EASILY REMOVABLE. UNITS SHALL BE FACTORY ASSEMBLED AND PRE-WIRED, CONSISTING OF CABINET AND FRAME, SUPPLY FAN, ECONOMIZER, HEAT EXCHANGER AND BURNERS, CONTROLS, DEEP SEAL PVC TRAPS, BAROMETRIC RELIEF, ALL NECESSARY SAFETY CONTROLS, AIR FILTERS, REFRIGERANT COOLING COIL AND COMPRESSOR, CONDENSER COIL, CONDENSER FAN, ROOF CURB AND UNIT MOUNTED DISCONNECT. UNITS SHALL BE COMPLETE WITH A SEVEN-DAY PROGRAMMABLE NIGHT SETBACK THERMOSTAT AND SHALL HAVE CAPACITIES AND MODEL NUMBERS AS INDICATED ON THE DRAWINGS.

12.2 RTU-1 IS AN EXISTING UNIT THAT IS TO BE RELOCATED AND RE-USED. THE CONTRACTOR SHALL BE RESPONSIBLE TO COMPLETELY SERVICE AND RELOCATE THE UNIT, PROVIDE NEW ROOF CURB AND MAKE REPAIRS AND ALTERATIONS AS REQUIRED FOR A COMPLETE AND PROPER FUNCTIONING SYSTEM. PROVIDE A NEW SEVEN-DAY PROGRAMMABLE NIGHT SETBACK THERMOSTAT.

12.3 VIBRATION ISOLATORS FOR THE HVAC EQUIPMENT SHALL BE INSTALLED TO PROPERLY ISOLATE THE TRANSMISSION OF VIBRATION OR NOISE TO ANY PART OF THE BUILDING.

13. NON-DUCTED SPLIT SYSTEM UNIT

13.1 SPLIT SYSTEM UNIT SHALL BE COMPLETE INTEGRATED SYSTEM WITH ALL THE NECESSARY COMPONENTS, DISCONNECTS AND CONTROLS REQUIRED FOR COMPLETE OPERATIONAL INSTALLATION. UNITS SHALL BE PRECHARGED WITH REFRIGERANT AND BE COMPLETE WITH LIQUID LINE FILTER DRYER, THERMAL EXPANSION VALVES AND LOW AMBIENT CONTROLS FOR OPERATION DOWN TO 0 DEGREES F. COMPRESSORS SHALL CARRY FIVE YEAR EXTENDED WARRANTIES.

13.2 INTERIOR UNIT SHALL BE CEILING MOUNTED COMPLETE WITH FAN, DISCONNECT SWITCH, REFRIGERANT COIL, ELECTRIC HEATING COIL (AS NOTED ON THE DRAWING), FILTER, DRAIN PAN, INTEGRAL CONDENSATE PUMP (AH-1 ONLY) AND CONTROLS. OUTDOOR UNITS SHALL CONSIST OF A COMPRESSOR, REFRIGERANT COIL AND FAN.

13.3 UNIT SHALL BE PROVIDED WITH LOW AMBIENT CONTROLS, HARD START KIT, BACK-UP ELECTRIC HEAT AND CONDENSATE PUMP. SPLIT SYSTEM UNIT SHALL BE PROVIDED WITH REMOTE PROGRAMMABLE THERMOSTAT.

13.4 ROUTE CONDENSATE PIPING CONCEALED IN WALLS AND ABOVE CEILINGS.

13.5 SPLIT SYSTEM UNIT SHALL HAVE THE CAPACITIES LISTED ON THE DRAWINGS AND SHALL BE AS MANUFACTURED BY EMI.

14. CONDENSATE PUMP (CP-1)

14.1 ABS TANK, STAINLESS STEEL SHAFT, 3/8" DISCHARGE W/ POWER CORD AND THERMAL OVERLOAD PROTECTION, 1/30 HP MOTOR; MODEL VCC-200ILS AS MANUFACTURED BY LITTLE GIANT PUMP COMPANY.

15. DUCTWORK AND GAS VENTS

15.1 DUCTWORK SHALL BE GALVANIZED STEEL DESIGNED FOR 2" PRESSURES FOR SUPPLY AND RETURN SYSTEMS AND 2" FOR EXHAUST SYSTEMS IN ACCORDANCE WITH SMACNA. ALL ELBOWS SHALL BE PROVIDED WITH SINGLE THICKNESS TURNING VANES. ALL SUPPLY AND RETURN DUCTWORK SHALL BE INSULATED WITH 1-1/2 INCH FIBERGLASS DUCT WRAP AS MANUFACTURED BY OWENS CORNING OR EQUAL.

15.1.1 INSULATE ALL SHEET METAL SUPPLY AND RETURN DUCTS AND THE FIRST TEN FEET OF EXHAUST DUCT ADJACENT TO EXHAUST FANS. INSULATE CONCEALED DUCTS WITH 1-1/2 INCH THICK JOHNS MANVILLE R SERIES DUCT WRAP OR EQUAL.

15.1.2 INTERNALLY LINE THE FIRST TEN FEET OF SUPPLY AND RETURN DUCTS ADJACENT TO ALL PACKAGED ROOFTOP UNITS (RTU-1, 2, 3) WITH ONE INCH THICK PERMACOTE LINACOUSTIC.

15.2 FLEXIBLE DUCTWORK SHALL BE UL 181 CLASS 1 COMPLETE WITH AN INSULATING FIBERGLASS BLANKET, FOIL FACED VAPOR BARRIER AND DESIGNED TO WITHSTAND PRESSURES UP TO SIX INCHES POSITIVE PRESSURE W.G. FLEXIBLE DUCT RUNS SHALL BE A MAXIMUM OF FIVE FEET IN LENGTH AND SHALL BE TYPE 5M-INSULATED AS MANUFACTURED BY FLEXMASTER USA, INC. OR EQUAL.

15.3 EXTERIOR DUCTWORK EXPOSED TO THE WEATHER SHALL BE INSULATED WITH NON-FLEXIBLE FIBERGLASS BOARD INSULATION AS SPECIFIED FOR EXPOSED DUCT. INSULATION SHALL BE INSTALLED AS PREVIOUSLY SPECIFIED FOR INTERIOR NONFLEXIBLE FIBERGLASS BOARD INSULATION AND IN CONFORMANCE WITH MANUFACTURER'S PUBLISHED RECOMMENDATIONS. APPLY FLEXCLAD 400 FLEXIBLE, SELF-ADHERING, WEATHERPROOF REFLECTIVE JACKET TO EXTERIOR OF INSULATION. FLEXCLAD 400 IS MANUFACTURED BY MFM BUILDING PRODUCTS, COSHOCTON, OH.

16. FANS

16.1 CENTRIFUGAL ROOF EXHAUST FANS SHALL HAVE STATICALLY AND DYNAMICALLY BALANCED CENTRIFUGAL WHEEL, DIRECT OR ADJUSTABLE V-BELT DRIVE, HEAVY GAUGE ALUMINUM WEATHERPROOF HOUSING, BIRDSCREEN OVER THE AIR OUTLET, SELF-ACTING BACKDRAFT DAMPER AND A UL APPROVED SAFETY DISCONNECT SWITCH MOUNTED AND WIRED. V-BELT DRIVES SHALL BE DESIGNED FOR NOT LESS THAN 150 PERCENT OF THE CONNECTED DRIVING CAPACITY AND ADJUSTABLE SHEAVES TO PROVIDE NOT LESS THAN 20 PERCENT SPEED VARIATION. SHEAVES SHALL BE SELECTED TO DRIVE THE FAN AT SUCH A SPEED TO PRODUCE THE SPECIFIED CAPACITY WHEN SET AT THE APPROXIMATE MIDPOINT OF THE SHEAVE ADJUSTMENT. FAN WHEELS AND MOTORS SHALL BE ISOLATED FROM THE FAN BASE WITH VIBRATION ISOLATORS. FANS SHALL BE PROVIDED WITH MATCHING 12 INCH HIGH PREFABRICATED CURBS. FANS SHALL CARRY THE UL LABEL AND BE RATED IN ACCORDANCE WITH AMCA TEST CODE. CAPACITIES SHALL BE AS INDICATED ON THE DRAWINGS AND FANS SHALL BE AS MANUFACTURED BY LOREN COOK.

17. DIFFUSERS, REGISTERS AND GRILLES

17.1 CEILING DIFFUSERS SHALL BE COMPLETE WITH BALANCING DAMPERS AND WHITE ENAMEL FINISH OR APPROVED EQUAL. DIFFUSERS SHALL BE AS MANUFACTURED BY TUTTLE & BAILEY WITH SIZES AND MODEL NUMBERS AS SCHEDULED.

17.2 SLOT DIFFUSERS SHALL BE CONSTRUCTED OF ALUMINUM WITH 1 INCH SLOTS AND 180 DEGREE PATTERN CONTROL AND SHALL BE COMPLETE WITH A PLENUM ASSEMBLY. SLOT DIFFUSERS SHALL HAVE A WHITE ENAMEL FINISH. DIFFUSERS SHALL BE AS MANUFACTURED BY TUTTLE & BAILEY WITH SIZES AND MODEL NUMBERS AS SCHEDULED.

17.3 CEILING RETURN AIR REGISTERS SHALL BE COMPLETE WITH BALANCING DAMPERS AND WHITE ENAMEL FINISH. REGISTERS SHALL BE AS MANUFACTURED BY TUTTLE & BAILEY WITH SIZES AND MODEL NUMBERS AS SCHEDULED.

18. PIPING

18.1 REFRIGERANT PIPING SHALL BE SEAMLESS TYPE "ACR" COPPER ASTM B-280. FITTINGS SHALL BE LONG RADIUS WROUGHT-COPPER OR FORGED-BRASS SWEAT FITTINGS DESIGNED FOR REFRIGERANT USE. REFRIGERANT LINE SIZES BETWEEN INDOOR AND OUTDOOR SECTIONS SHALL BE SIZED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS FOR CAPACITIES REQUIRED AND PIPE LENGTHS TO BE INSTALLED.

18.2 CONDENSATE DRAIN PIPING AND FITTINGS SHALL BE SCHEDULE 40 PVC. PIPE SHALL BE INSTALLED WITH A MINIMUM SLOPE OF 1/8-INCH PER FOOT.

18.3 THE CONTRACTOR SHALL PROVIDE A TRAPPED SCHEDULE 40 PVC CONDENSATE DRAIN LINE FOR ALL ROOFTOP UNITS.

18.4 THE CONTRACTOR SHALL PROVIDE SCHEDULE 40 PVC PIPING FOR THE PUMPED CONDENSATE LINES. ALL DRAIN LINES SHALL TERMINATE WHERE SHOWN ON THE DRAWINGS.

19. ROOFTOP EQUIPMENT SUPPORTS

19.1 ROOFTOP EQUIPMENT RAILS SHALL BE GALVANIZED STEEL UNITIZED CONSTRUCTION WITH BASE PLATE, CONTINUOUSLY WELDED CORNERS, SEAMS, PRESSURE TREATED WOOD NAILER, COUNTERFLASHING AND LAG SCREWS. RAILS SHALL BE SUITABLE FOR INSTALLATION ON THE ROOF DECK TYPE ENCOUNTERED, SHALL BE 12-INCHES HIGH AND SHALL EXTEND A MINIMUM OF SIX-INCHES BEYOND THE EQUIPMENT TO BE SUPPORTED. CONTRACTOR SHALL PROVIDE CONTINUOUS INSULATION ON RAILS. RAILS SHALL BE PROVIDED FOR ALL ROOFTOP EQUIPMENT NOT SPECIFIED WITH CURBS AND SHALL BE AS MANUFACTURED BY THE PATE COMPANY.

19.2 ROOFTOP PIPE AND DUCT SUPPORT CURBS SHALL BE 12-INCHES HIGH, MINIMUM, CONSTRUCTED OF 18 GAUGE UNITIZED CONSTRUCTION WITH INTEGRAL BASE PLATE, CONTINUOUSLY WELDED CORNER SEAMS, PRESSURE TREATED WOOD NAILER AND COUNTERFLASHING WITH LAG SCREWS. CURBS SHALL BE INSTALLED PERPENDICULAR TO THE DUCT OR PIPE AND SHALL EXTEND SIX-INCHES BEYOND THE DUCT OR PIPE IN EITHER DIRECTION. SUPPORTS SHALL BE MODEL "ES" AS MANUFACTURED BY PATE COMPANY WITH THE STYLE AS REQUIRED TO MATCH THE EXISTING ROOF CONSTRUCTION.

19.3 ALL PIPING SHALL BE ATTACHED TO THE ROOFTOP SUPPORT CURBS BY MEANS OF A PIPE MOUNTING PEDESTAL. PEDESTAL SHALL BE COMPLETE WITH STEEL SLIDE CHANNEL WITH SUPPORT BRACKET, LATERAL ADJUST SPACER BRACKET, CONTINUOUS THREADED RODS, PIPE ROLLER, PIPE RETAINER BRACKET AND STAINLESS STEEL LAG BOLTS. PIPE MOUNTING PEDESTAL SHALL BE AS MANUFACTURED BY ROOF PRODUCT AND SYSTEMS CORPORATION.

19.4 ROOFTOP PIPE PENETRATIONS SHALL CONSIST OF A CONTINUOUS CURB ASSEMBLY CONSISTING OF HEAVY GAUGE GALVANIZED STEEL WITH UNITIZED CONSTRUCTION, INTEGRAL BASE PLATE, THREE-POUND DENSITY INSULATION AND TWO BY TWO NAILER. CURB SHALL BE PROVIDED WITH AN ACRYLIC CLAD THERMOPLASTIC COVER FASTENING SCREWS AND GRADUATED STEP BOOTS WITH STAINLESS STEEL CLAMPS.

20. CONTROLS

20.1 THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY CONTROL COMPONENTS INCLUDING, BUT NOT LIMITED TO, RELAYS, AUTOMATIC DAMPERS, DAMPER OPERATORS, THERMOSTATS, CONTROLLERS, ETC. AND WIRING AS REQUIRED TO PROVIDE AUTOMATIC TEMPERATURE CONTROL. ALL CONTROL COMPONENTS SHALL BE AS MANUFACTURED BY HONEYWELL. ALL WIRING SHALL BE DONE IN ACCORDANCE WITH THE LOCAL AND STATE CODES AND THE NATIONAL ELECTRIC CODE.

20.2 THERMOSTAT FOR THE PACKAGED ROOFTOP UNITS SHALL BE HONEYWELL T7350 SERIES WITH SEVEN-DAY PROGRAMMING FOR NIGHT SETBACK. THERMOSTAT SHALL BE MOUNTED 60 INCHES AFF.

20.2.1 A SMOKE DETECTOR SHALL BE INSTALLED IN THE RETURN DUCTWORK OF RTU-1 AND 2. THE SUPPLY FANS SHALL BE DEACTIVATED IF PRODUCTS OF COMBUSTION ARE SENSED.

20.2.2 EXHAUST FAN EF-1 SHALL RUN CONTINUOUSLY WHEN EITHER RTU-1 OR 2 IS IN 'OCCUPIED' MODE AND SHALL TURN 'ON/OFF' WITH THE MEN'S AND WOMEN'S ROOM LIGHTS WHEN RTU-1 AND 2 ARE BOTH IN 'UNOCCUPIED' MODE.

20.2.3 EXHAUST FAN EF-2 SHALL RUN CONTINUOUSLY WHEN RTU-3 IS IN 'OCCUPIED' MODE AND SHALL BE 'OFF' WHEN RTU-3 IS IN 'UNOCCUPIED' MODE.

21. THE EQUIPMENT AND MATERIALS SHALL BE COMPLETELY CLEANED PRIOR TO TESTING, INSULATING AND PLACING THE SYSTEM IN OPERATION.

22. THE REFRIGERATION SYSTEM SHALL BE TESTED AND PROVEN TIGHT PRIOR TO PLACING IN OPERATION. UNITS SHALL BE CHECKED FOR PROPER REFRIGERANT CHARGE AND OPERATION AND ADJUSTED AS PER THE MANUFACTURER'S RECOMMENDATIONS.

23. THE COMPLETE SUPPLY, RETURN AND EXHAUST AIR DUCT SYSTEMS, INCLUDING FANS, DAMPERS, OUTLETS AND APPURTENANCES SHALL BE PROPERLY BALANCED TO DELIVER AIR VOLUMES WITHIN +/- 10 PERCENT OF THE VALUES INDICATED. THE TOTAL SYSTEM LEAKAGE THROUGH DUCT JOINTS AND CONNECTIONS SHALL NOT EXCEED FIVE PERCENT. TEMPERATURE, AMPERE AND RPM READINGS SHALL ALSO BE PROVIDED TO VERIFY SYSTEM PERFORMANCE.

24. THE CONTRACTOR SHALL FURNISH THREE SETS OF INSTRUCTION MANUALS TO THE OWNER AT THE COMPLETION OF CONSTRUCTION.

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Betzwood AssociatesPC
Architects & Engineers
Robin J. Kohn, AIA — Regis W. Kubit, PE

COMMONWEALTH OF PENNSYLVANIA
REGISTERED
PROFESSIONAL
REGIS WILLIAM KUBIT
ENGINEER
No. 6968-E

523 Kimberton Road, Suite 11B Phoenixville, PA 19460
tel (610) 917-8831 fax (610) 917-8836
email mail@betzwood.com http://www.betzwood.com

Regis W. Kubit, P.E.
Commonwealth of Pennsylvania
License No. PE-6968-E
MECHANICAL ENGINEER

N.E. FISHER & ASSOCIATES
MECHANICAL & ELECTRICAL ENGINEERS
329 EAST SECOND STREET
BOYERTOWN, PENNSYLVANIA 19512
(610) 369 - 3190

PROJECT No.
3213

Contact Person:
Edward M. Happ
(610) 917-8831

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B2610		

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APPROVED BY	CURRENT DATE
Robin J. Kohn, AIA	November 16, 2007

INFINITI of Ardmore
306 W Lancaster Avenue
Ardmore, Pennsylvania 19003

LOWER MERION TOWNSHIP
MONTGOMERY COUNTY

SHEET TITLE

MECHANICAL SPECIFICATIONS

SHEET NUMBER

M-3

REV 1

11-16-07 2610c-SHSPA.dwg

PACKAGED ROOFTOP AIR CONDITIONING UNIT SCHEDULE

REF NO	MANUFACTURER/ MODEL NO	FAN SECTION: AIR FLOW (CFM)	FAN SECTION: TOTAL SP ("WG)	FAN SECTION: RPM	FAN SECTION: MOTOR (BHP)	FAN SECTION: MOTOR (HP)	HEATING SECTION: CAPACITY (MBH) INPUT	HEATING SECTION: CAPACITY (MBH) OUTPUT	HEATING SECTION: STAGES (#)	HEATING SECTION: MIN EFF (%)	COOLING SECTION: CAPACITY (MBH) TOTAL	COOLING SECTION: CAPACITY (MBH) SENS	COOLING SECTION: EAT (°F) DB	COOLING SECTION: EAT (°F) WB	COOLING SECTION: COND EAT (°F)	COOLING SECTION: MIN EER	COOLING SECTION: COND FANS (NO)	COOLING SECTION: COND FANS (FLA) EACH	COOLING SECTION: COMPRESSORS (NO)	COOLING SECTION: COMPRESSORS (RLA) EACH	ELECTRICAL CHARACTERISTICS: VOLTS	ELECTRICAL CHARACTERISTICS: PHASE	ELECTRICAL CHARACTERISTICS: HERTZ	OUTSIDE AIR: MIN (CFM)	OUTSIDE AIR: MAX (CFM)	REMARKS
RTU-1	EXISTING LENNOX TGA090S2BM1G	3000	1.2				180	144	2	80	93	63.2	80	67	95		2	1.3	2	6.4	460	3	60	750	3000	S/N 5605M11497
RTU-2	LENNOX / TGA090S2BM1G	3000	1.2	895	1.6	2	180	144	2	80	93	63.2	80	67	95	11	2	1.3	2	6.4	460	3	60	750	3000	W/ ECONOMIZER, POWER OUTLET AND DISCONNECT
RTU-3	LENNOX / LGA042S2BS1G	1400	0.7	875	0.5	0.75	78	62.4	1	80	42.9	31.3	80	67	95	10.4	1	1.3	1	5.8	460	3	60	240	1400	W/ ECONOMIZER, POWER OUTLET AND DISCONNECT

DUCTLESS SPLIT SYSTEM SCHEDULE

REF NO	MANUFACTURER	MODEL NO INDOOR UNIT/ OUTDOOR UNIT	AIR FLOW (CFM)	MIN OA (CFM)	INDOOR UNIT ELEC CHARACTERISTICS: HP	RLA	VOLTS	PHASE	HERTZ	COOLING: TOT CAP (BTUH)	COOLING: SENS CAP (BTUH)	COOLING: MIN SEER	AUXILIARY HEAT: KW	HEAT ELEC CHARACTERISTICS: VOLTS	PHASE	HERTZ	OUTDOOR SECTION FANS: NO	HP	COMPRESSOR: NO	RLA	ELEC CHARACTERISTICS: TOTAL AMPS	MCA	VOLTS	PHASE	HERTZ
AH-1 / CU-1	EMI	CACA12 / S1CS0	380	40	0.1	0.35	208	1	60	9000	7110	13	1.5	208	1	60	1	0.125	1	3.5	4.3	5.2	208	1	60
AH-2 / CU-2	EMI	CACA24 / S1C4D	700	40	0.125	0.55	208	1	60	23000	15.41	13	0	N/A	N/A	N/A	1	0.125	1	8	8.8	10.8	208	1	60

FAN SCHEDULE

REF NO	MANUFACTURER/ MODEL NO	LOCATION	FAN SECTION: FLOW (CFM)	SPEED (RPM)	SONES	STATIC EXT PRESS (" WG)	BHP OR WATTS	MOTOR (HP)	DRIVE TYPE	ELECTRICAL CHARACTERISTICS: VOLTS	PHASE	HERTZ	TYPE	REMARKS
EF-1	LOREN COOK / 70 ACEB	ROOF	250	1513	7.5	0.375	0.135	.167	BELT	120	1	60	CENTRIFUGAL	W/ BACKDRAFT DAMPER AND DISCONNECT
EF-2	LOREN COOK / 60 ACEB	ROOF	150	1430	6.5	0.375	0.064	.167	BELT	120	1	60	CENTRIFUGAL	W/ BACKDRAFT DAMPER AND DISCONNECT

CONVECTOR SCHEDULE

REF NO	MANUFACTURER/ MODEL NO	WATTS / FT	SIZE (INCHES) L	H	D	VOLTS	PHASE	HERTZ	REMARKS
CONV-1	BERKO / CSJAS10125	125	120	5.5	3	208	1	60	W/ BUILT-IN THERMOSTAT AND DISCONNECT SWITCH
CONV-2	BERKO / CSJAS10125	125	120	5.5	3	208	1	60	W/ BUILT-IN THERMOSTAT AND DISCONNECT SWITCH
CONV-3	BERKO / CSJAS10125	125	120	5.5	3	208	1	60	W/ BUILT-IN THERMOSTAT AND DISCONNECT SWITCH
CONV-4	BERKO / CSJAS10125	125	120	5.5	3	208	1	60	W/ BUILT-IN THERMOSTAT AND DISCONNECT SWITCH

SLOT DIFFUSER SCHEDULE

REF NO	MANUFACTURER/ MODEL NO	DIFFUSER LENGTH (FT)	(#) OF SLOTS	INLET	SLOT SIZE (IN)	BLOW	REMARKS
SD-1	TUTTLE & BAILEY / ITPS	4	3	10	1	ADJUSTABLE	CONTRACTOR TO ADJUST BLOW AS INDICATED ON PLANS

INFRARED HEATER SCHEDULE

REF NO	MANUFACTURER/ MODEL NO	LENGTH (FT)	ELECTRICAL CHARACTERISTICS: VOLTS	PHASE	HERTZ	HEATING CAPACITY (MBH)	REMARKS
IH-1	RE-VERBER-RAY / HL-2	20	120	1	60	75 / 50	W/ WALL THERMOSTAT; NOTE 1
IH-2	RE-VERBER-RAY / HL-2	20	120	1	60	75 / 50	W/ WALL THERMOSTAT; NOTE 1

NOTE 1: INSTALL REFLECTOR AT A 45 DEGREE ANGLE

REGISTER AND GRILLE SCHEDULE

REF NO	MANUFACTURER/ MODEL NO	SIZE (L" X W")	FACE BARS	REMARKS
R-1	TUTTLE & BAILEY / T70D	10X10	HORIZ	
R-2	TUTTLE & BAILEY / T70D	8X8	HORIZ	
R-3	TUTTLE & BAILEY / T70D	6X6	HORIZ	
G-1	TUTTLE & BAILEY / T70D	22X22	HORIZ	

DIFFUSER SCHEDULE

REF NO	MANUFACTURER/ MODEL NO	NECK SIZE (")	BLOW	REMARKS
D-1	TUTTLE & BAILEY / RC-42	18X9	4-WAY	
D-2	TUTTLE & BAILEY / RC-40	12X12	4-WAY	
D-3	TUTTLE & BAILEY / RC-34	12X6	3-WAY	
D-4	TUTTLE & BAILEY / RC-40	9X9	4-WAY	
D-5	TUTTLE & BAILEY / RC-40	9X9	4-WAY	W/ ROUND DUCT ADAPTER
D-6	TUTTLE & BAILEY / RC-40	6X6	4-WAY	"
D-7	TUTTLE & BAILEY / RC-20	6X6	2-WAY	"

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Betzwood Associates PC
Architects & Engineers
Robin J. Kohn, AIA
Regis W. Kubit, PE

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ENGINEER REGIS WILLIAM KUBIT No. 6968-E

523 Kimberton Road, Suite 11B Phoenixville, PA 19460
tel (610) 917-8831 fax (610) 917-8836
email mail@betzwood.com http://www.betzwood.com

Regis W. Kubit, P.E.
Commonwealth of Pennsylvania
License No. PE-6968-E
MECHANICAL ENGINEER

N.E. FISHER & ASSOCIATES
MECHANICAL & ELECTRICAL ENGINEERS
329 EAST SECOND STREET
BOYERTOWN, PENNSYLVANIA 19512
(610) 369 - 3190

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Contact Person:
Edward M. Happ
(610) 917-8831

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B2610		

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CURRENT DATE: November 16, 2007

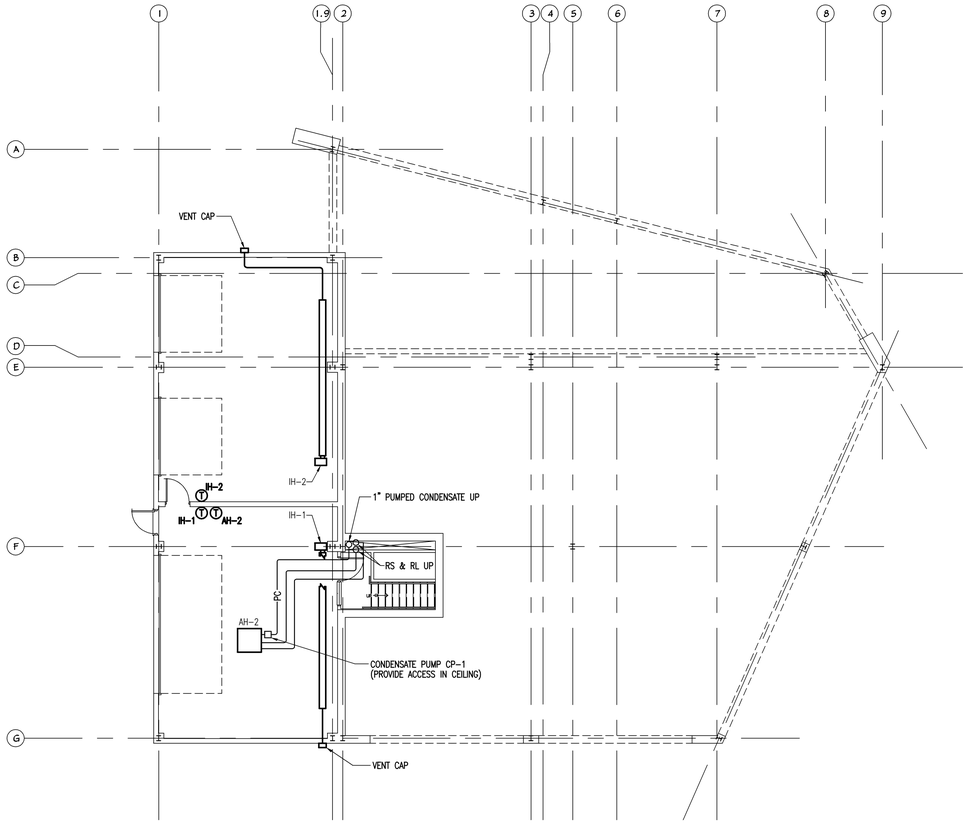
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MONTGOMERY COUNTY

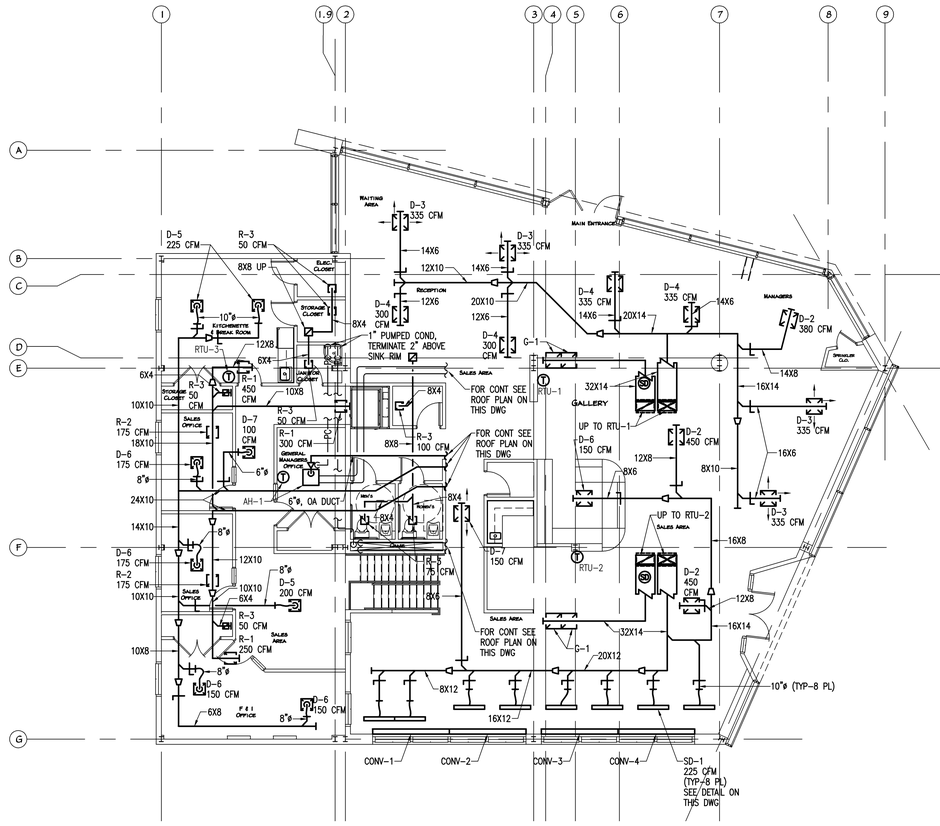
SHEET TITLE
MECHANICAL SCHEDULES

SHEET NUMBER
M-2
REV 1

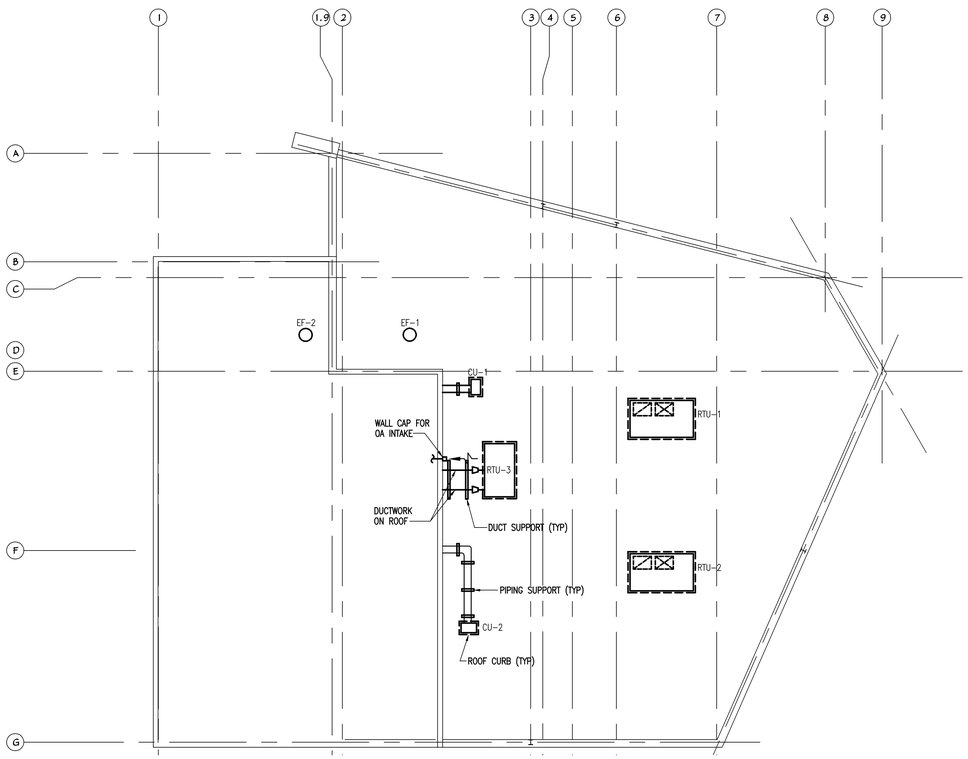
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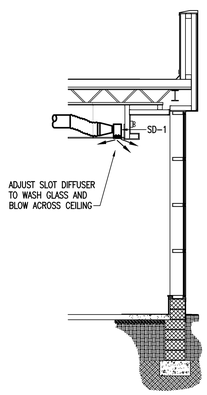
LOWER LEVEL MECHANICAL PLAN
SCALE: 1/8"=1'-0"



UPPER LEVEL MECHANICAL PLAN
SCALE: 1/8"=1'-0"



MECHANICAL ROOF PLAN
SCALE: 1/8"=1'-0"



SLOT DIFFUSER DETAIL
NO SCALE

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No. 6968-E

523 Kimberton Road, Suite 11B Phoenixville, PA 19460
tel (610) 917-8831 fax (610) 917-8836
email mail@betzwood.com http//www.betzwood.com

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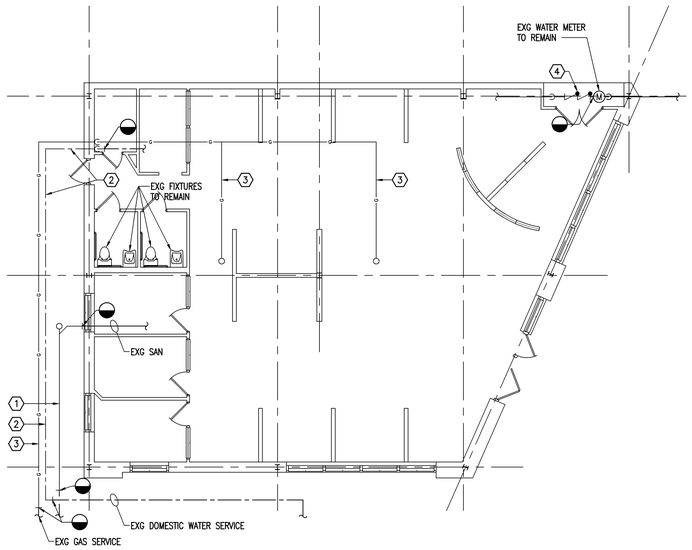
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LOWER MERION TOWNSHIP
MONTGOMERY COUNTY

SHEET TITLE
NEW WORK PLAN

SHEET NUMBER
M-1
REV 1

2610c-3SdSht.dwg
11-16-07



DEMOLITION FLOOR PLAN

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

LEGEND AND ABBREVIATIONS

- SANITARY PIPING (SAN)
- SANITARY VENT PIPING (SV)
- COLD WATER PIPING (CW)
- HOT WATER PIPING (HW)
- GAS PIPING (G)
- PIPE TURNING UP
- PIPE TURNING DOWN
- BALL VALVE
- CHECK VALVE
- WALL HYDRANT
- PIPE ANCHOR
- PIPE GUIDE
- P– FIXTURE REFERENCE NUMBER
- (M) WATER METER
- (G) GAS METER
- CONNECT TO EXISTING
- EXTENT OF DEMOLITION
- (#) NEW WORK NOTE
- <#> DEMOLITION NOTE

CO	CLEANOUT
CONT	CONTINUATION
DFU	DRAINAGE FIXTURE UNIT
DN	DOWN
DWG	DRAWING
E.C.	ELECTRICAL CONTRACTOR
EXG	EXISTING
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
F.P.C.	FIRE PROTECTION CONTRACTOR
INV. EL.	INVERT ELEVATION
M.C.	MECHANICAL CONTRACTOR
P.C.	PLUMBING CONTRACTOR
RTU	ROOFTOP UNIT
T&P	TEMPERATURE AND PRESSURE
TYP	TYPICAL
VTR	VENT THRU ROOF
W/	WITH

PLUMBING FIXTURE SCHEDULE

REF NO	FIXTURE	CW (IN)	HW (IN)	SAN (IN)	TRAP (IN)	VENT (IN)	REMARKS
P–1	SINK	1/2	1/2	1 1/2	1 1/2	1 1/4	STAINLESS STEEL
P–2	SINK	1/2	1/2	1 1/2	1 1/2	1 1/4	STAINLESS STEEL
P–3	MOP SINK	1/2	1/2	1 1/2	1 1/4	1 1/4	FLOOR MOUNT
P–4	TRENCH DRAIN			4	4	2	WALL HUNG, HANDICAP ACCESSIBLE
P–5	HOSE BIB	1/2	–	–	–	–	W/ VACUUM BREAKER
P–6	WALL HYDRANT	1/2	–	–	–	–	FROST PROOF, W/ VACUUM BREAKER

DEMOLITION NOTES:

1. REMOVE EXISTING SANITARY PIPING FROM POINTS INDICATED AND RE–ROUTE AS SHOWN ON THE NEW WORK PLANS.
2. REMOVE EXISTING DOMESTIC WATER SERVICE FROM POINTS SHOWN AND RE–ROUTE AS INDICATED ON THE NEW WORK PLANS.
3. REMOVE EXISTING GAS SERVICE BACK TO POINT INDICATED AND RE–ROUTE AS INDICATED ON THE NEW WORK PLANS.
4. REMOVE EXISTING SPRINKLER SYSTEM IN ITS ENTIRETY BACK TO THE WATER METER FOR THE INSTALLATION OF NEW SPRINKLER SYSTEM AS INDICATED ON THE FIRE PROTECTION DRAWINGS.

REVIEW 11/16/2007
ISSUED FOR PERMIT

Betzwood Associates PC
Architects & Engineers
Robin J. Kohn, AIA
Regis W. Kubit, PE

COMMONWEALTH OF PENNSYLVANIA
REGISTERED
PROFESSIONAL
REGIS WILLIAM KUBIT
ENGINEER
No. 6968–E

523 Kimberton Road, Suite 11B Phoenixville, PA 19460
tel (610) 917-8831 fax (610) 917-8836
email mail@betzwood.com http://www.betzwood.com

Regis W. Kubit, P.E.
Commonwealth of Pennsylvania
License No. PE-6968-E
MECHANICAL ENGINEER

N.E. FISHER & ASSOCIATES
MECHANICAL & ELECTRICAL ENGINEERS
329 EAST SECOND STREET
BOYERTOWN, PENNSYLVANIA 19512
(610) 369 - 3190

PROJECT No.
3213

Contact Person:
Edward M. Happ
(610) 917-8831

PROJECT NO.	DRAWN BY	CHK'D BY
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APPROVED BY	CURRENT DATE
Robin J. Kohn, AIA	November 16, 2007

INFINITI of Ardmore
306 W Lancaster Avenue
Ardmore, Pennsylvania 19003

LOWER MERION TOWNSHIP
MONTGOMERY COUNTY

SHEET TITLE

PLUMBING
DEMOLITION

SHEET NUMBER

DP-1

REV 1

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PLUMBING SPECIFICATIONS

1. THE GENERAL CONDITIONS SHALL APPLY TO AND FORM A PART OF THIS SECTION OF THESE SPECIFICATION.

2. PROVIDE ALL MATERIALS, LABOR, EQUIPMENT, TOOLS AND SUPERVISION AND PERFORM ALL OPERATIONS NECESSARY FOR THE PROPER AND COMPLETE EXECUTION OF ALL PLUMBING WORK IN STRICT ACCORDANCE WITH THE SPECIFICATIONS AND DRAWINGS.

3. ALL WORK SHALL BE IN ACCORDANCE WITH ALL APPLICABLE SECTIONS OF THE NATIONAL FIRE PROTECTION ASSOCIATION, NATIONAL ELECTRIC CODE, OSHA, 2006 INTERNATIONAL PLUMBING CODE AND ALL OTHER STATE AND LOCAL AUTHORITIES HAVING JURISDICTION AND APPLICABLE MANUFACTURER'S RECOMMENDATIONS.

4. THE CONTRACTOR SHALL VISIT THE SITE, EXAMINE ALL CONDITIONS, AND MAKE ALLOWANCES FOR DIFFICULTIES AND CONTINGENCIES AFFECTING THE PROPER EXECUTION OF THIS CONTRACT.

5. THE CONTRACTOR SHALL OBTAIN AND PAY ALL FEES NECESSARY FOR PERMITS AND INSPECTIONS REQUIRED WITH HIS WORK.

6. THE CONTRACTOR SHALL VERIFY ALL UTILITY SERVICE INFORMATION SHOWN ON THE DRAWINGS WITH THE LOCAL UTILITY COMPANY PRIOR TO SUBMITTING A BID. ANY CHANGES OR SERVICE CHARGES IMPOSED BY THE UTILITY COMPANY SHALL BE QUALIFIED AND INCLUDED IN THE BID.

7. ALL EQUIPMENT SHALL BE TESTED, LISTED AND LABELED BY AN APPROVED AUTHORITY (UL, AGA, ETL) AND SHALL BE INSTALLED IN ACCORDANCE WITH ITS LISTING.

8. ALL EQUIPMENT, MATERIALS, AND WORKMANSHIP SHALL BE GUARANTEED FOR A MINIMUM OF ONE YEAR FROM THE DATE OF ACCEPTANCE BY THE OWNER.

9. WHERE PRODUCTS ARE SPECIFIED BY BRAND NAME, CATALOG NUMBERS OR BY NAMES OF MANUFACTURERS, THE REFERENCE IS INTENDED TO BE DESCRIPTIVE AND NOT RESTRICTIVE, AND IS SOLELY FOR THE PURPOSE OF INDICATING THE TYPE OF QUALITY OF ITEM THAT WILL BE ACCEPTABLE. AN APPROVED EQUAL WILL BE ACCEPTED UNLESS INDICATED OTHERWISE.

10. THE CONTRACTOR RESPONSIBLE FOR WORK COVERED BY THESE SPECIFICATIONS SHALL COORDINATE AND COOPERATE WITH ALL OTHER TRADES. TRADES THAT HAVE WORK CONNECTED WITH THE PLUMBING WORK SHALL BE NOTIFIED FOR INSTALLATION REQUIREMENTS AND SCHEDULING. THE CONTRACTOR SHALL SCHEDULE HIS WORK TO AVOID ANY INTERRUPTION OF ANY UTILITY SERVICES TO THE OPERATION AREAS OF THE BUILDING DURING NORMAL WORKING HOURS. INTERRUPTION OF SERVICES SHALL BE DONE DURING OFF HOURS AT NO ADDITIONAL COST TO THE OWNER.

11. ALL CUTTING AND PATCHING OF EVERY NATURE REQUIRED IN CONNECTION WITH THIS CONTRACT SHALL BE DONE BY THIS CONTRACTOR WITH MECHANICS EXPERIENCED IN THEIR RESPECTIVE TRADES. ALL PATCHING SHALL MATCH ADJACENT FINISHES. ALL WORK SHALL BE COORDINATED TO AVOID CUTTING OF WORK IN PLACE AND INTERFERING WITH OTHER OPERATIONS.

12. IN COMPLIANCE WITH ACT 38, CONTACT INDIVIDUAL COMPANIES TO HAVE UTILITY LOCATIONS MARKED IN THE FIELD AND TO OTHERWISE LOCATE UNDERGROUND OBJECTS AS MAY BE NECESSARY PRIOR TO THE START OF CONSTRUCTION. PENNSYLVANIA LAW REQUIRES THREE WORKING DAYS NOTICE FOR THE CONSTRUCTION PHASE AND TEN WORKING DAYS IN DESIGN STAGE. CALL PENNSYLVANIA ONE CALL SYSTEM, INC. (1-800-242-1776, AS OF THIS WRITING).

13. ALL EXCAVATIONS REQUIRED FOR INSTALLATION OF PIPE SHALL HAVE SOLID, UNDISTURBED BOTTOMS, AND SHALL BE SUBJECT TO APPROVAL BY THE OWNER'S REPRESENTATIVE PRIOR TO PIPING PLACEMENT. SHOULD BOTTOMS BECOME SOFT OR WET BEFORE PIPING IS PLACED, ALL SUCH UNSUITABLE BOTTOMS SHALL BE REMOVED AT NO COST TO THE OWNER AND FILLED WITH CONCRETE.

14. BACKFILL ALL EXCAVATIONS PERFORMED UNDER THIS CONTRACT AS REQUIRED TO SATISFY FINISHED GRADE REQUIREMENTS.

15. THE CONTRACTOR SHALL PERFORM ALL DEMOLITION WORK AS SHOWN ON THE DRAWINGS AND AS REQUIRED TO COMPLETE ALL NEW WORK AND SHALL CUT AND PATCH AS REQUIRED TO PERFORM THE WORK. ALL OPENINGS MUST BE REPAIRED TO MATCH ADJACENT FINISHES. THE OWNER SHALL BE GIVEN THE OPPORTUNITY TO RETAIN OWNERSHIP OF ALL REMOVED MATERIALS AND EQUIPMENT.

16. FURNISH AND INSTALL ALL NECESSARY HANGERS, INSERTS, SUPPORTS SUPPLEMENTARY STEEL, ETC., TO PROPERLY SUPPORT ALL EQUIPMENT AND PIPING IN AN APPROVED MANNER AND IN FULL ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

16.1.1 ALL DOMESTIC HOT AND COLD WATER PIPING WITHIN THE BUILDING SHALL BE HARD DRAWN TYPE "L" COPPER TUBING IN ACCORDANCE WITH ASTM-B88. FITTINGS SHALL BE WROUGHT COPPER OR CAST BRASS. VALVES SHALL BE CAST BRASS UNLESS NOTED OTHERWISE. HANGERS FOR SUPPORTING COPPER TUBING SHALL BE COPPERIZED.

16.1.2 ALL WATER SERVICE PIPING OUTSIDE THE BUILDING SHALL BE TYPE "K" COPPER, ASTM B-88, WITH WROUGHT COPPER FITTINGS AND SOLDERED JOINTS OR DUCTILE IRON WATER PIPE AND FITTING, AWWA C151, C110 WITH FLANGED AND BOLTED JOINTS.

17. ALL SANITARY AND VENT PIPING ABOVE THE FINISHED FLOOR SHALL BE NO-HUB SERVICE WEIGHT CAST IRON IN ACCORDANCE WITH ASTM A74; JOINTS SHALL BE A NEOPRENE GASKET WITH STAINLESS STEEL CLAMP AND SHIELD ASSEMBLY, INSTALL IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS. SANITARY AND VENT PIPING LOCATED BELOW THE FLOOR SHALL BE SERVICE WEIGHT CAST IRON WITH HUB AND SPIGOT ENDS. JOINTS SHALL BE CONNECTED WITH NEOPRENE PUSH-ON COMPRESSION GASKETS, INSTALL IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.

17.1 WHERE PERMITTED BY THE LOCAL AUTHORITY ALL SANITARY AND VENT PIPING SHALL BE SCHEDULE 40 PVC, ASTM D2665, D2949, WITH PVC FITTINGS (DWV TYPE) AND SOLVENT WELD JOINTS. PVC PIPING SHALL NOT BE USED IN RETURN AIR PLENUM TYPE CEILINGS OR IN FIRE-RATED CEILING ASSEMBLIES (CONTRACTOR TO VERIFY THESE AREAS WITH ARCHITECT). PVC PIPING SHALL NOT BE USED WITHOUT WRITTEN AUTHORIZATION FROM THE LOCAL AUTHORITY HAVING JURISDICTION AND THE LOCAL FIRE MARSHALL.

18. FUEL GAS PIPING ABOVE THE FLOOR INSIDE THE BUILDING SHALL BE SCHEDULE 40 BLACK STEEL WITH MECHANICAL JOINTS INSTALLED IN ACCORDANCE WITH NFPA 54. ALL FUEL GAS PIPING LOCATED OUTSIDE THE BUILDING OR BELOW GRADE SHALL BE SCHEDULE 40 GALVANIZED STEEL WITH MECHANICAL JOINTS IN ACCORDANCE WITH NFPA 54. BRANCH PIPING TO APPLIANCES SHALL BE COMPLETE WITH A SHUTOFF VALVE, UNION, DIRT LEG AND ANY REGULATORS NECESSARY TO ENSURE PROPER EQUIPMENT OPERATION (COORDINATE WITH THE RECOMMENDATIONS OF THE EQUIPMENT MANUFACTURER).

19. WHERE PIPING PASSES THROUGH FIRE RESISTING PORTIONS OF THE STRUCTURE, AN APPROVED FIRE-STOPPING DEVICE SHALL BE INSTALLED TO MAINTAIN THE FIRE RATING OF THAT PORTION OF THE STRUCTURE. ALL FIRE STOPPING DEVICES USED SHALL BE LISTED INTUMESCENT MATERIALS SUCH AS A CAULK, SELANT, PUTTY, WRAP STRIPS, ETC. AS REQUIRED TO PROPERLY FIRE STOP ALL VOIDS. FIRE STOPPING MATERIAL SHALL BE AS MANUFACTURED BY 3M, HILTI, PRO-SET SYSTEMS OR EQUAL.

20. ALL SHUTOFF VALVES SHALL BE BALL OR GATE VALVES. ALL BALL, GATE, GLOBE AND CHECK VALVES SHALL BE ALL BRONZE, SWEATED PATTERN SUITABLE FOR 125 PSI WORKING PRESSURE.

20.1 ALL VALVES AND PIPING EXPOSED TO VIEW SHALL BE CHROME PLATED BRASS.

20.2 CURB STOP SHALL BE AS REQUIRED BY THE LOCAL AUTHORITY.

21. ALL BACKFLOW PREVENTERS SHALL BE AS REQUIRED BY THE LOCAL AUTHORITY.

21.1 DOUBLE CHECK VALVE ASSEMBLIES FOR FIRE PROTECTION SERVICE: ANSI/ASSE 1012; BRONZE BODY WITH CORROSION RESISTANT INTERNAL PARTS AND STAINLESS STEEL SPRINGS; TWO INDEPENDENTLY OPERATING CHECK VALVES WITH INTERMEDIATE ATMOSPHERIC VENT; MODEL 709, MANUFACTURED BY WATTS.

21.2 BACKFLOW PREVENTER TO BE INSTALLED IN VERTICAL CONFIGURATION.

22. GAS SHUTOFF VALVES SHALL HAVE A QUARTER-TURN OPERATION AND SHALL BE AGA APPROVED FOR SYSTEM PRESSURE. INSTALL IN ACCORDANCE WITH THE NATIONAL FUEL GAS CODE REQUIREMENTS.

22.1 GAS PRESSURE REGULATING VALVES SHALL BE THE SIZE AND TYPE REQUIRED BY THE APPLIANCE AND THE LOCAL GAS SUPPLIER. VALVES SHALL BE AGA APPROVED.

23. ALL COLD WATER, HOT WATER, HOT WATER RECIRCULATION, FITTINGS, BACKFLOW PREVENTERS, VALVES AND STRAINERS SHALL BE INSULATED WITH MATERIALS HAVING A "K" FACTOR OF 0.27 AT 75 DEGREES F MEAN TEMPERATURE, A FLAME SPREAD RATING OF 25 OR LESS AND SMOKE DEVELOPED RATING OF 50 OR LESS.

23.1.1 THICKNESS:
- COLD WATER AND HOT WATER RUNOUTS UP TO TWO INCHES = 1/2-INCH THICK
- COLD WATER MAINS UP TO ONE INCH = 1/2-INCH THICK
- COLD WATER MAINS 1-1/4 TO TWO INCHES = 3/4-INCH THICK
- COLD WATER MAINS 2-1/2 INCHES AND LARGER = ONE INCH THICK
- HOT WATER MAINS UP TO TWO INCHES = ONE INCH THICK
- HOT WATER MAINS 2-1/2 INCHES AND LARGER = 1-1/2 INCHES THICK

23.1.2 MATERIALS:
- VAPOR BARRIER ALL SERVICE JACKETED FIBERGLASS WITH FITTINGS COVERED WITH PRE-SHAPED PLASTIC COVERS.
- FOAMED CELLULAR FLEXIBLE ELASTOMERIC INSULATION WITH MITER CUT FITTINGS WITH VAPOR BARRIER JACKET (FOR THICKNESS UP TO ONE INCH). ALL JOINTS SHALL BE GLUED IN ACCORDANCE WITH THE INSULATION MANUFACTURER'S RECOMMENDATIONS.

23.1.3 MANUFACTURERS - CERTAINTEED, MANVILLE, OWENS CORNING, KNAUF, ARMSTRONG OR APPROVED EQUAL.

24. FIXTURES AND FIXTURE TRIMMINGS SHALL BE FURNISHED AND INSTALLED AS SPECIFIED HEREIN. FIXTURES SHALL BE COMPLETE WITH ALL NECESSARY WALL HANGERS AND SUPPORTS, SUPPLY STOP VALVES (LOOSE-KEY STOPS FOR EXPOSED PIPING IN PUBLIC TOILET ROOMS), 17-GAUGE CHROME-PLATED BRASS DRAINAGE FITTINGS/P-TRAPS AND ONE-PIECE CHROME-PLATED ESCUTCHEONS. ALL PIPING EXPOSED TO VEIW SHALL BE CHROME-PLATED BRASS. THE FOLLOWING ITEM NUMBERS CORRESPOND WITH THE "P" NUMBERS NOTED ON THE PLUMBING FIXTURE SCHEDULE AND ON THE DRAWINGS.

P-1 SINK - SHALL BE AN 18-GAUGE-TYPE 302 STAINLESS STEEL SINGLE BOWL SINK, MODEL LR-2219 WITH THREE FAUCET HOLES MANUFACTURED BY ELKAY. FAUCET SHALL BE ELKAY MODEL LK-232-S CHROME-PLATED FAUCET WITH TWO LEVER HANDLES AND GOOSENECK SPOUT, LK-99 DRAIN AND STRAINER, CHROME-PLATED SUPPLIES, STOP VALVES AND ESCUTCHEONS. PROVIDE CHROME-PLATED 17-GAUGE BRASS P-TRAP AND WASTE PIPING WITH ESCUTCHEON.

P-2 SINK - SHALL BE AN 18-GAUGE-TYPE 302 STAINLESS STEEL SINGLE BOWL SINK, MODEL LR-1517 WITH ONE FAUCET HOLE MANUFACTURED BY ELKAY. FAUCET SHALL BE ELKAY MODEL LK-2223 CHROME-PLATED FAUCET WITH TWO LEVER HANDLES AND GOOSENECK SPOUT, LK-99 DRAIN AND STRAINER, CHROME-PLATED SUPPLIES, STOP VALVES AND ESCUTCHEONS. PROVIDE CHROME-PLATED 17-GAUGE BRASS P-TRAP AND WASTE PIPING WITH ESCUTCHEON.

P-3 MOP BASIN - SHALL BE FIAT "MOP SERVICE BASIN", MODEL MSB-2424 WITH MODEL 830-AA FAUCET AND MODEL 832-AA HOSE AND BRACKET ASSEMBLY AND MODEL 889-CC MOP HANGER.

P-4 TRENCH DRAIN - SHALL BE J.R. SMITH, MODEL 9930 ENVIRO-FLO SYSTEM WITH A FOUR-INCH DIAMETER BOTTOM OUTLET. THE DRAIN SYSTEM SHALL BE A PRE-SLOPED POLYPROPYLENE CHANNEL SYSTEM WITH A RADIUSED BOTTOM. PROVIDE THE NUMBER OF CHANNELS NECESSARY TO COVER THE AREA INDICATED ON THE DRAWINGS. PROVIDE END CAPS AND SECURED (REMOVABLE) MEDIUM DUTY GALVANIZED SLOTTED STEEL GRATE (TYPE 'G'). INSTALL WITH THE PROPER NUMBER OF CHANNEL SECTIONS AS REQUIRED TO PROVIDE DRAIN COVERAGE AS INDICATED ON THE DRAWING.

P-5 HOSE BIB - WALL MOUNT HOSE BIB WITH BRASS CONSTRUCTION, WHEEL HANDLE, 3/4 INCH INLET, 3/4 INCH HOSE THREAD CONNECTION AND VACUUM BREAKER; MODEL 24P-3/4, MANUFACTURED BY WOODFORD.

P-6 WALL HYDRANT - SHALL BE J.R. SMITH MODEL 5509-QT; CONCEALED WITH NICKEL-BRONZE FACE, STAINLESS STEEL HINGE, NON-FREEZE HYDRANT WITH VACUUM BREAKER AND LOOSE KEY OPERATOR.

25. ELECTRIC WATER HEATER

25.1 FURNISH AND INSTALL THE ELECTRIC WATER HEATER WHERE SHOWN ON THE PLANS. THE ELEMENTS SHALL BE SIZED SPECIFICALLY FOR THE VOLTAGE GIVEN.

25.2 THE HEATER IS TO BE LISTED BY UNDERWRITERS' LABORATORIES AS AN AUTOMATIC STORAGE TYPE. TANK SHALL BE UNIFORMLY AND COMPLETELY LINED WITH A VITREOUS PORCELAIN ENAMEL (GLASS LINED). THE TANK SHALL HAVE A 355 PSI TEST PRESSURE AND A 150 PSI WORKING PRESSURE.

25.3 THE WATER HEATER SHALL BE COMPLETE WITH A MAGNESIUM ANODE, OPERATING CONTROLS, HIGH LIMIT CONTROLS, FACTORY WIRING, ASME TEMPERATURE AND PRESSURE RELIEF VALVE, BLANKET INSULATION, JACKET WITH BAKED ENAMEL FINISH AND DRAIN VALVE.

25.4 REFER TO THE DETAILS ON THE DRAWINGS FOR SPECIFIC DATA.

25.5 THE ELECTRIC WATER HEATER SHALL BE BRADFORD WHITE, MODEL LD-20U3-1, 20 GALLON CAPACITY, 4500 WATT ELEMENT, 18 GPH RECOVERY AT 100 DEGREES F RISE, 208 VOLT, SINGLE PHASE, COMPLETE WITH APPROVED TEMPERATURE AND PRESSURE RELIEF VALVE.

26. THERMOSTATIC MIXING VALVE

26.1 MIXING VALVE SHALL BE THERMOSTATIC TYPE WITH UNION INLET STRAINERS, CHECK STOPS, THERMOMETER, SHUTOFF VALVES AND ROUGH BRONZE FINISH; MODEL E480, MANUFACTURED BY POWERS. INSTALL AND SET UP SYSTEM IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. SET MIXING VALVE TO SUPPLY DOMESTIC HOT WATER A 110 DEGREES F.

27. STERILIZATION OF DOMESTIC WATER SYSTEM

27.1 BEFORE BEING PLACED IN SERVICE, ALL DOMESTIC WATER LINES SHALL BE CHLORINATED USING A METHOD THAT IS SATISFACTORY TO THE WATER AUTHORITY OR THE AUTHORITY HAVING JURISDICTION. IN THE ABSENCE OF A PRESCRIBED METHOD, THE PROCEDURE LISTED IN AWWA C651 OR AWWA C652 OR AS DESCRIBED BELOW SHALL BE USED.

27.2 PRIOR TO CHLORINATION, ALL DIRT AND FOREIGN MATTER SHALL BE REMOVED BY A THOROUGH FLUSHING. THIS SHALL BE DONE AFTER THE PRESSURE TEST AND LEAKAGE TEST.

27.3 A CHLORINE HYPOCHLORITE SOLUTION SHALL BE APPLIED BY MEANS OF A SOLUTION FEED DEVICE OR THE GAS SHALL BE FED DIRECTLY FROM A CHLORINE CYLINDER EQUIPPED WITH PROPER DEVICES FOR REGULATING THE RATE OF FLOW AND THE EFFECTIVE DIFFUSE OF GAS WITHIN THE PIPE.

27.4 WATER SHALL BE CONTROLLED TO FLOW SLOWLY INTO THE SYSTEM DURING THE APPLICATION OF CHLORINE IN SUCH PROPORTIONS THAT THE CHLORINE DOSE APPLIED TO THE WATER ENTERING THE PIPE SHALL BE AT LEAST 40 TO 50 PARTS PER MILLION.

27.5 TREATED WATER SHALL BE RETAINED IN THE SYSTEM LONG ENOUGH TO DESTROY ALL NON-SPORE FORMING BACTERIA. THIS PERIOD SHALL BE AT LEAST THREE HOURS. A LONGER CHLORINE CONTACT TIME MAY BE REQUESTED BY THE OWNER'S REPRESENTATIVE AT NO ADDITIONAL COST TO THE OWNER.

27.6 AFTER THE CHLORINE TREATED WATER HAS BEEN RETAINED FOR THE REQUIRED TIME, THE CHLORINE RESIDUAL AT THE PIPE EXTREMITIES AND AT OTHER REPRESENTATIVE POINTS SHALL BE AT LEAST FIVE PARTS PER MILLIONS.

27.7 FOLLOWING CHLORINATION, ALL TREATED WATER SHALL BE THOROUGHLY FLUSHED FROM THE SYSTEM AT ITS EXTREMITIES UNTIL THE REPLACEMENT WATER THROUGHOUT ITS LENGTH SHALL, UPON TEST, BE EQUAL TO THE WATER QUALITY SERVED FROM THE WATER SUPPLY SYSTEM.

27.8 SHOULD THE INITIAL TREATMENT IN THE OPINION OF THE OWNER'S REPRESENTATIVE PROVE INEFFECTIVE, THE CHLORINATION PROCEDURE SHALL BE REPEATED UNTIL CONFIRMED TESTS SHOW THAT WATER SAMPLED FROM THE SYSTEM CONFORMS TO THE REQUIREMENTS.

27.9 THE "START-UP" OF THE WATER HEATER SYSTEM SHALL BE CARRIED OUT BY THE CONTRACTOR.

27.10 IN ADDITION TO THE ABOVE WORK, THE CONTRACTOR SHALL CHECK THE OPERATION OF ALL WATER HEATER THERMOSTAT SETPOINTS AND OPERATIONS.

28. TEST OF DRAINAGE SYSTEM

28.1 ALL PLUMBING AND DRAINAGE PIPING SHALL BE TESTED BY PLUGGING ALL OPENINGS AND FILL SYSTEM WITH WATER TO THE TOP OF ALL VENT PIPES. THE WATER SHALL STAND FOR 30 MINUTES FOR INSPECTION. ALL TESTS MUST COMPLY WITH LOCAL AUTHORITY REQUIREMENTS.

29. TEST OF DOMESTIC WATER PIPING

29.1 ALL WATER LINES SHALL BE TESTED TO A HYDROSTATIC PRESSURE EQUAL TO 1-1/2 TIMES THE MAXIMUM OPERATING PRESSURE. THE SYSTEM SHALL BE LEAK-FREE FOR 24 HOURS AT THIS PRESSURE.

29.2 TESTS

29.2.1 UPON COMPLETION OF THE INSTALLATION, THE SYSTEM SHALL BE HYDROSTATICALLY TESTED AND FLUSHED AS SPECIFIED IN NFPA STANDARD NO. 13 IN THE PRESENCE OF THE OWNER OR THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL SUBMIT A SIGNED AND DATED CERTIFICATE TO THE OWNER OR THE OWNER'S REPRESENTATIVE AS STIPULATED IN NFPA STANDARD NO. 13.

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Betzwood AssociatesPC
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COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ENGINEER REGIS WILLIAM KUBIT No. 6968-E

523 Kimberton Road, Suite 11B Phoenixville, PA 19460
tel (610) 917-8831 fax (610) 917-8836
email mail@betzwood.com http://www.betzwood.com

Regis W. Kubit, P.E.
Commonwealth of Pennsylvania
License No. PE-6968-E
MECHANICAL ENGINEER

N.E. FISHER & ASSOCIATES
MECHANICAL & ELECTRICAL ENGINEERS
329 EAST SECOND STREET
BOYERTOWN, PENNSYLVANIA 19512
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Robin J. Kohn, AIA	November 16, 2007

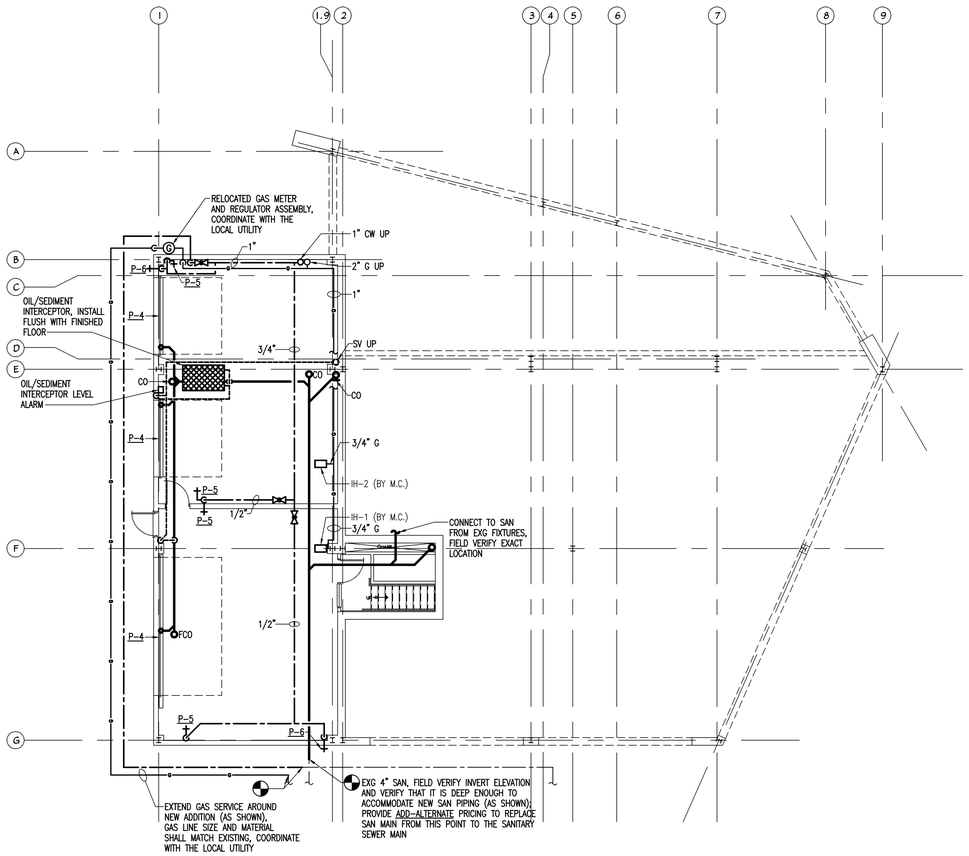
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LOWER MERION TOWNSHIP
MONTGOMERY COUNTY

SHEET TITLE
SPECIFICATIONS

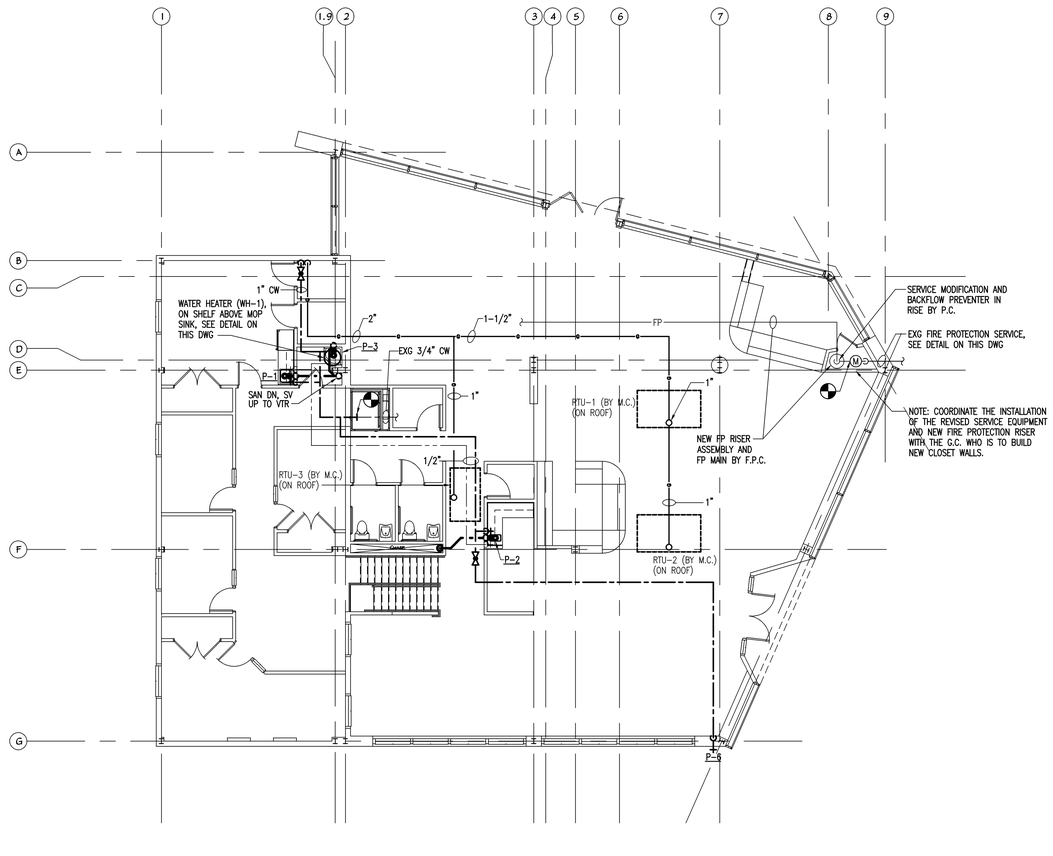
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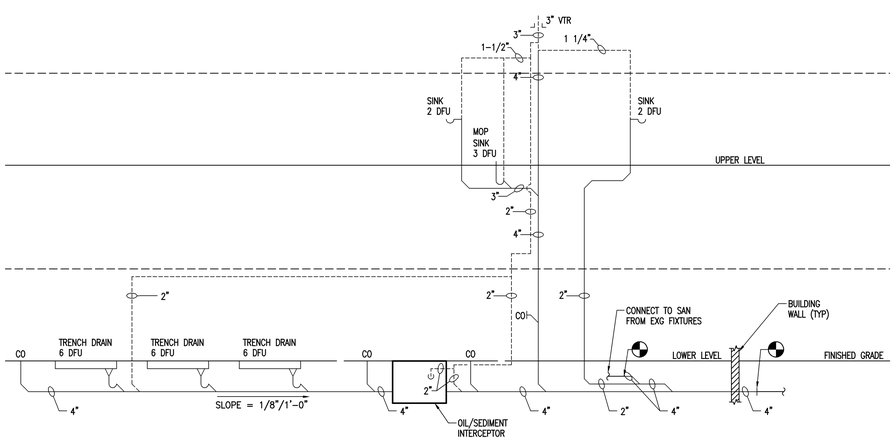
NEW WORK LOWER LEVEL FLOOR PLAN

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



NEW WORK UPPER LEVEL FLOOR PLAN

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

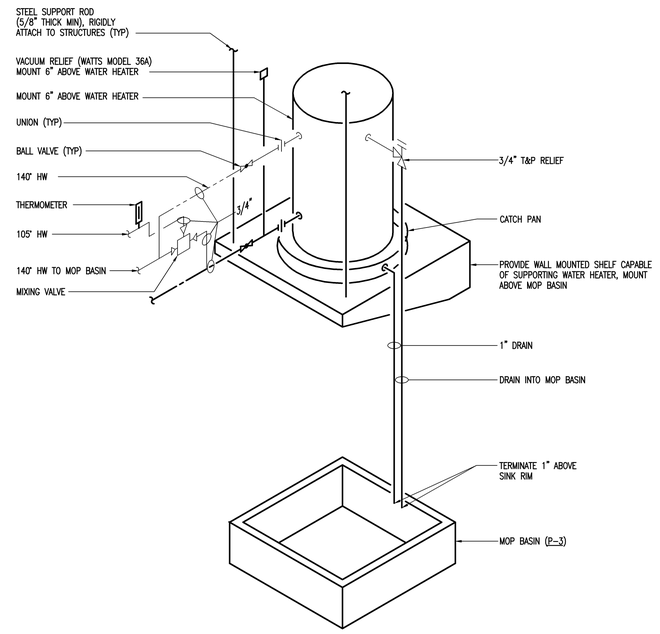


NOTES:

1. ALL SANITARY PIPING LESS THAN 3"ø SHALL BE SLOPED AT 1/4"/1'-0". ALL SANITARY PIPING 3"ø OR LARGER SHALL BE SLOPED AT 1/8"/1'-0" (IN ACCORDANCE WITH THE PLUMBING CODE AND ALL LOCAL REQUIREMENTS).
2. ALL SANITARY PIPING LOCATED BELOW THE FLOOR SLAB SHALL BE NO LESS THAN 2"ø.
3. ALL VENT THROUGH ROOF PENETRATIONS (VTR'S) SHALL BE LOCATED NO LESS THEN 10'-0" FROM ALL EXISTING OR NEW OUTSIDE AIR INTAKES. COORDINATE WITH MECHANICAL CONTRACTOR IN THE FIELD.

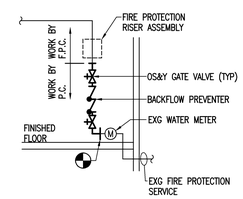
SANITARY RISER DIAGRAM

NO SCALE



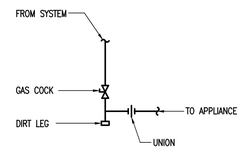
WATER HEATER (WH-1) DETAIL

NO SCALE



FIRE PROTECTION SERVICE DETAIL

NO SCALE



TYPICAL GAS PIPING DETAIL

NO SCALE

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APPROVED BY	CURRENT DATE
Robin J. Kohn, AIA	November 16, 2007

INFINITI of Ardmore
306 W Lancaster Avenue
Ardmore, Pennsylvania 19003

LOWER MERION TOWNSHIP
MONTGOMERY COUNTY

SHEET TITLE

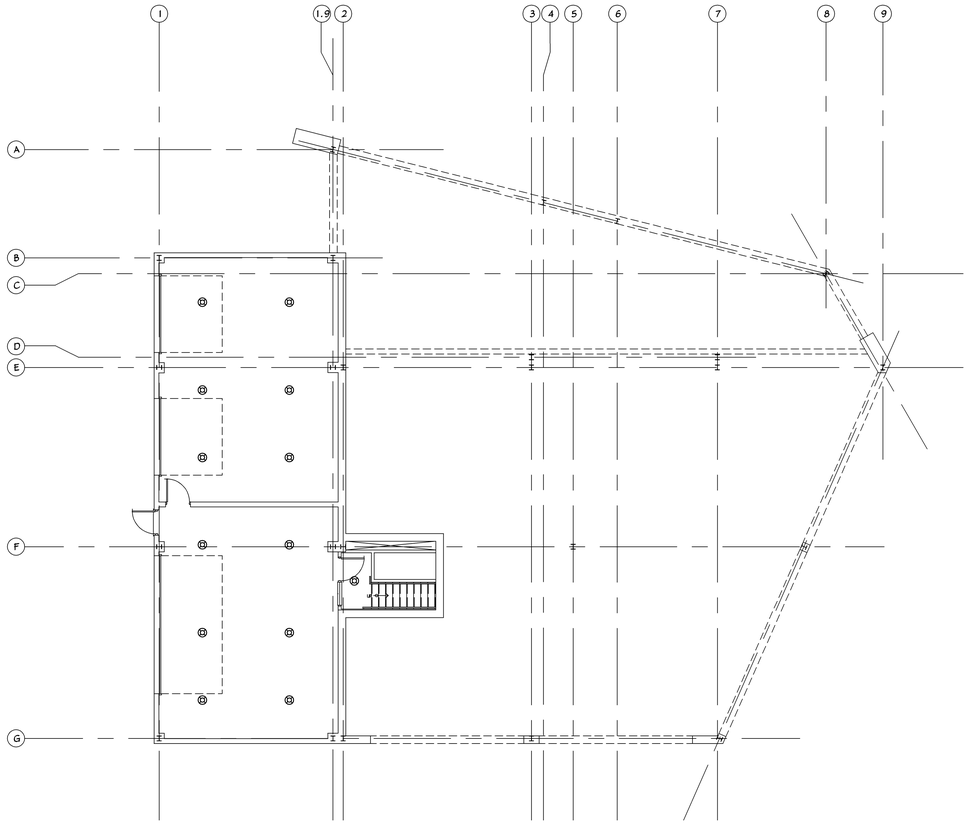
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SHEET NUMBER

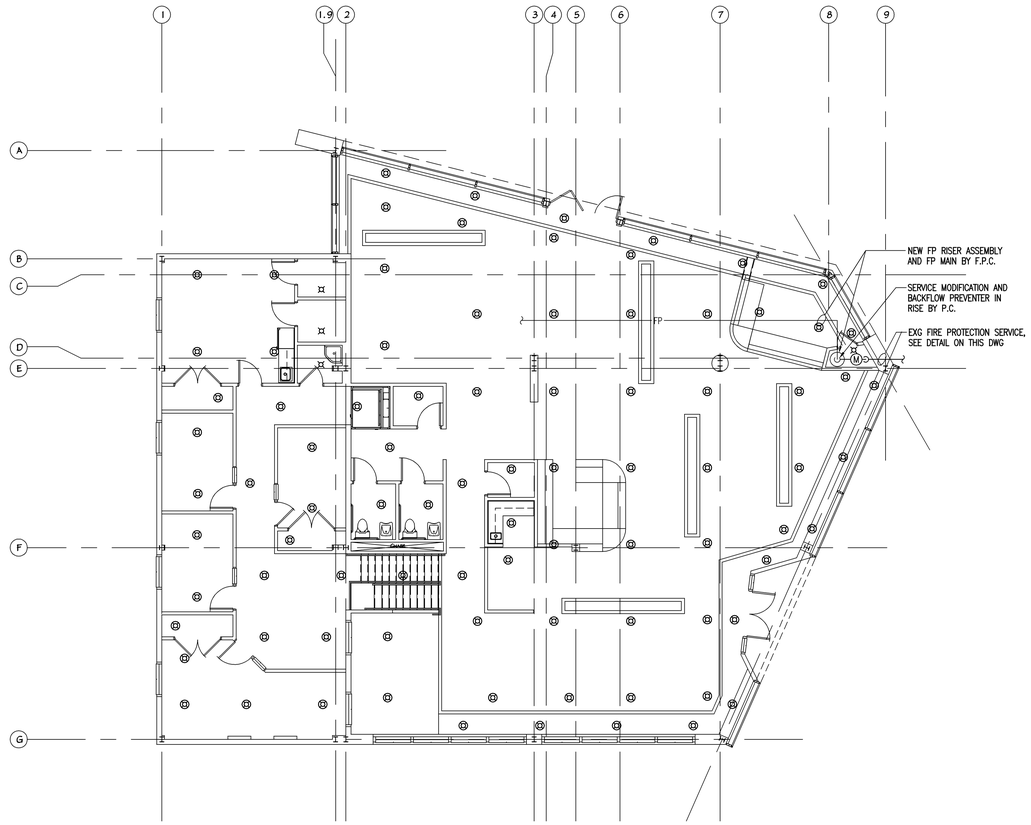
P-1

REV 1

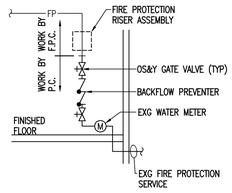
11-16-07 2610c-SitSht.dwg



LOWER LEVEL PLAN
SCALE: 1/8"=1'-0"



UPPER LEVEL PLAN
SCALE: 1/8"=1'-0"



FIRE PROTECTION SERVICE DETAIL
NO SCALE

LEGEND AND ABBREVIATIONS

	EXISTING OR BY OTHERS
	WORK BY THIS CONTRACTOR
FP	FIRE PROTECTION PIPING (FP)
	PIPE TURNING UP
	PIPE TURNING DOWN
	CONCEALED SPRINKLER HEAD
	PENDANT SPRINKLER HEAD
	UPRIGHT SPRINKLER HEAD
DWG	DRAWING
EXG	EXISTING

REVIEW 11/16/2007
ISSUED FOR PERMIT



Betzwood AssociatesPC
Architects & Engineers
Robin J. Kohn, AIA
Regis W. Kubit, PE

COMMONWEALTH OF PENNSYLVANIA
REGISTERED
PROFESSIONAL
REGIS WILLIAM KUBIT
ENGINEER
No. 6968-E

523 Kimberton Road, Suite 11B Phoenixville, PA 19460
tel (610) 917-8831 fax (610) 917-8836
email mail@betzwood.com http://www.betzwood.com

Regis W. Kubit, P.E.
Commonwealth of Pennsylvania
License No. PE-6968-E

MECHANICAL ENGINEER

N.E. FISHER & ASSOCIATES
MECHANICAL & ELECTRICAL ENGINEERS
329 EAST SECOND STREET
BOYERTOWN, PENNSYLVANIA 19512
(610) 369 - 3190

PROJECT No.
3213

Contact Person:
Edward M. Happ
(610) 917-8831

PROJECT NO.	DRAWN BY	CHK'D BY
82610		

NO.	DATE	BY	ISSUE
1	11-16-07	EMH	ISSUED FOR PERMIT
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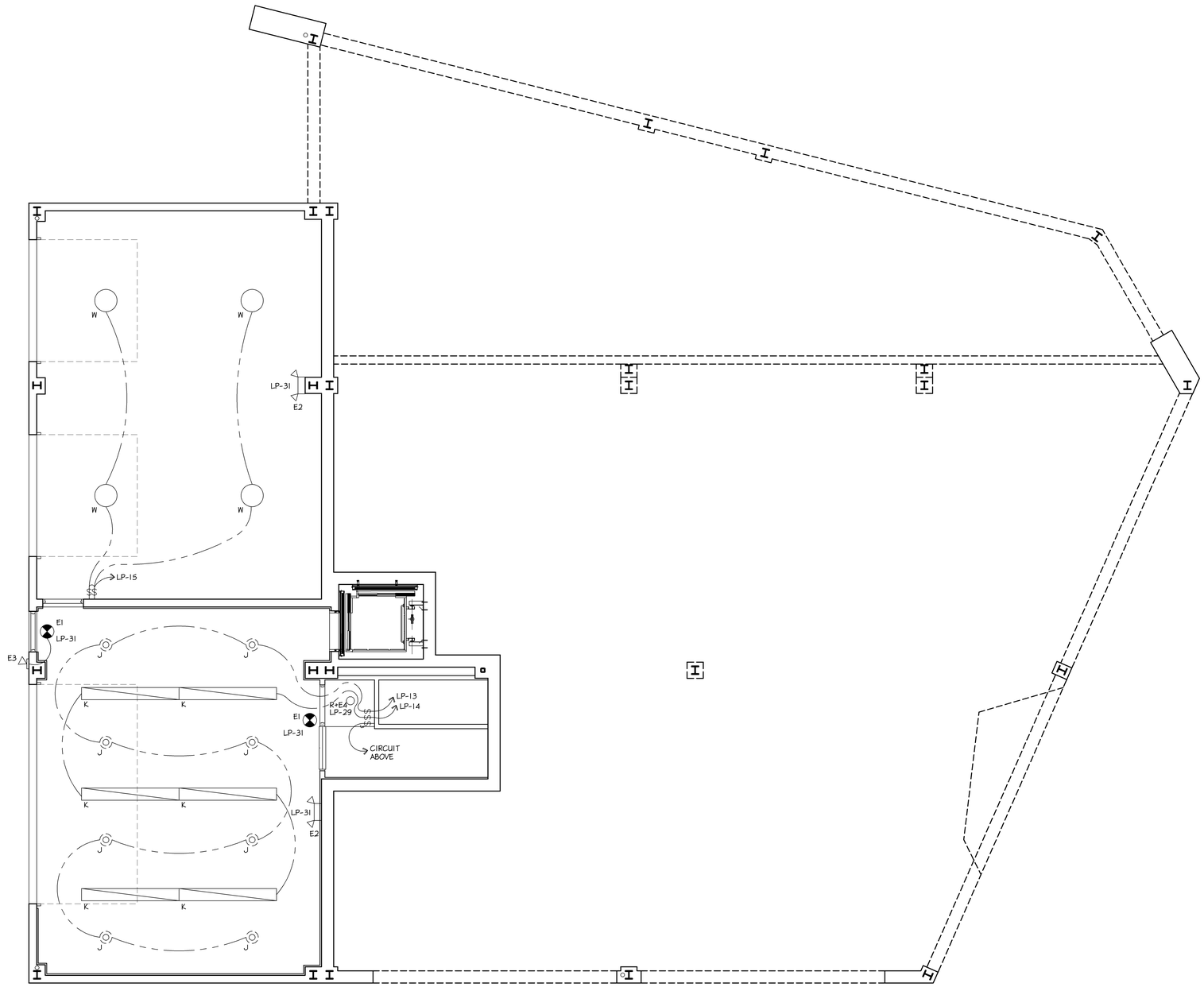
LOWER MERION TOWNSHIP
MONTGOMERY COUNTY

SHEET TITLE
FIRE PROTECTION FLOOR PLAN

SHEET NUMBER
FP-1

REV 1

11-16-07 2610c-SUSSU1.dwg



1 E-1 ELECTRICAL LIGHTING PLAN - DELIVERY / VEHICLE PREP
Scale: 1/4"=1'-0"

LIGHTING FIXTURE SCHEDULE

SYMBOL	LETTER	DESCRIPTION
	A	LOCATION: ENTRY VESTIBULE MANUFACTURER: RUUD #LTI0003320 W/ L-703G3K 6" SQUARE RECESSED DOWNLIGHT MH TRIMLESS REMARKS: LAMP - 35W PAR30 METAL HALIDE SPOT 3000K
	EE4	LOCATION: FEATURE GLASS WALL BACK LIGHTING MANUFACTURER: RUUD #J04MS0003 W/ SR (SYM. REFLECTOR) SURFACE MNT 48" LINEAR FLOURSCENT REMARKS: LAMPS - (1)28W T5 3000K (F28T5)
	G	LOCATION: GALLERY ABOVE VEHICLES MANUFACTURER: RUUD # TLP3MP3WT w/ L-703P30SP TRACK MH HEAD w/ +1100K CORRECTIVE FILTER REMARKS: LAMP - PHILIPS 38W CDM-R111 NSP 3000K.
	H8 H6 H4 H2	LOCATION: COVE LIGHTING MANUFACTURER: RUUD #F08550039 / F06550005 / F04550042 / F02550010 SURFACE MNT FLUORESENT FIXTURE 8 / 6 / 4 / 2 FT REMARKS: LAMPS - (2)32W / (2)25W / (1)32W / (1)17W T8 4100K
	J	LOCATION: NEW VEHICLE DELIVERY MANUFACTURER: RUUD #RRH9032A-3961 w/ RRH9032B-AF w/ L-703G4K RECESSED ADJUSTABLE w/ +1100K CORRECTIVE FILTER REMARKS: LAMP - PHILIPS 38W CDM-R111 NFL 3000K
	K	LOCATION: NEW VEHICLE DELIVERY MANUFACTURER: RUUD #F18RM0001 RECESSED 1x8 FLUORESCENT T5 FIXTURE W/ LENS REMARKS: LAMP - (4)-28W T5 4100K
	N	LOCATION: ENTRY ELEMENT SOFFIT MANUFACTURER: RUUD #RRH6RA2507 w/ RTR6WSR20MF w/ L-707P30FL RECESSED METAL HALIDE WALL WASH REMARKS: LAMP - (1)70W MH PAR38 FLOOD 3000K.
	R	LOCATION: CORRIDORS / LOUNGE MANUFACTURER: RUUD #RRF6HZE13ALU w/ RTF6HZT00WF w/ L-232T441 RECESSED FLUORESCENT DOWNLIGHT REMARKS: LAMP - (1)32W PLT 4100K
	U	LOCATION: SALES / MANAGER AREA MANUFACTURER: RUUD #RRIDGF32-UNF RECESSED FLUORESCENT DOWNLIGHT REMARKS: LAMP - (2) 32W PLT 4100K
	W	LOCATION: VEHICLE PREP AREA MANUFACTURER: RUUD #RRHIDWD25I w/ RTHIDWD25AF w/ L-425CVBUO 12" DIA. RECESSED MOUNTED METAL HALIDE FIXTURE REMARKS: LAMP - 250W HID METAL HALIDE
	X	LOCATION: CLOSETS MANUFACTURER: RUUD #F08SN-432NUAI SURFACE MOUNTED WRAPAROUND FLUORESCENT FIXTURE REMARKS: LAMP - (2)32W T8 3000K (F32T8)
	DD5	LOCATION: EXTERIOR PARKING LOT AREA POLE LIGHTING MANUFACTURER: RUUD AERODOME #AVV4L492-M DARK SKY APPROVED AREA LIGHTING REMARKS: LAMPS: 250 WATT MH (3000K / 20,000 LUMENS)
	DD6	LOCATION: EXTERIOR PARKING LOT AREA POLE LIGHTING MANUFACTURER: RUUD AERODOME #AVV4L494-M DARK SKY APPROVED AREA LIGHTING REMARKS: LAMPS: 400 WATT MH (3000K / 40,000 LUMENS)
	DD7	LOCATION: EXTERIOR PARKING LOT AREA POLE LIGHTING MANUFACTURER: RUUD AERODOME #AVV40494-M DARK SKY APPROVED AREA LIGHTING REMARKS: LAMPS: 400 WATT MH (3000K / 40,000 LUMENS)
	DD8	LOCATION: EXTERIOR PARKING LOT LIGHTING / WALL MOUNTED MANUFACTURER: RUUD #MGMC0615-M FULL CUT-OFF SECURITY WALL LIGHTING REMARKS: LAMP: 150 WATT MH (3000K / 12,600 LUMENS)
	EI	LOCATION: EXIT SIGNS W/ BATTERY BACK-UP MANUFACTURER: RUUD #EXERBIRN w/ EXE2RNL REMARKS: DUAL FACE, DIRECTIONAL ARROWS W/ BATTERY BACKUP
	E2	LOCATION: EMERGENCY LIGHTS W/ BATTERY BACK-UP MANUFACTURER: RUUD #EMF2216WH EMER. LIGHTING W/ BATTERY PACK REMARKS: LAMPS: (2)-5 WATT MR-16 (6 VOLT)
	E3	LOCATION: EMERGENCY LIGHTING REMOTE HEADS MANUFACTURER: RUUD #EMRH156WH DUAL REMOTE EMER. LIGHTING REMARKS: LAMPS: (2)-5 WATT MR-16 (6 VOLT)
	E4	LOCATION: EMERGENCY COMPACT FLORESCENT BALLAST MANUFACTURER: JUNO NAVILITE #NEB650C / 277 VAC REMARKS: EMER. COMPACT FLOUESCENT REMOTE BALLAST

LEGEND

- DUPLEX RECEPTACLE HUBBELL #HBL5352
- IG ISOLATED GROUND DUPLEX RECEPTACLE HUBBELL #IG5252
- GFI GROUND FAULT DUPLEX RECEPTACLE HUBBELL #GF5252
- SINGLE POLE SWITCH HUBBELL #1201
- OCS OCCUPANT SENSOR SWITCH HUBBELL #AT1277
- OS OCCUPANT SENSOR & CONTRL UNIT HUBBELL #ATD2000C W/ CU277A
- NETWORK DEVICE CONNECTION HUBBELL #HXJ6
- TELEPHONE DEVICE CONNECTION HUBBELL #HXJU
- J JUNCTION BOX / WORK BOX
- CR 45 FT. 12/3 CORD REEL HUBBLEE/KELLEMS #HBL451232R
- SAFETY DISCONNECT
- FACP FIRE ALARM CONTROL PANEL
- F FIRE ALARM MANUAL PULL STATION M.H. 48" A.F.F.
- S SMOKE DETECTOR
- A HORN AND STROBE M.H. 96" A.F.F.

OCCUPANT SENSOR NOTES:

1. PROVIDE A OCCUPANT SENSOR SWITCH, CONTROL UNIT & REMOTE SENSOR FOR EACH SWITCH SHOWN.
2. SHOWROOM MERCHANDISE LIGHTING SHALL BE PLACED ON A DIGITAL TIMER UNIT. SCHEDULE SHALL COINCIDE WITH THE EXTERIOR LIGHTING.

FINAL 02/18/2008
ISSUED FOR PERMIT

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Robin J. Kohn, AIA
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Contact Person:
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B2610	EMH	EMH

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3	02-18-08	EMH	REVISED ADA & EXT. LIGHTING CONDITIONS (ELEVATOR)
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APPROVED BY	CURRENT DATE
Robin J. Kohn, AIA	May 14, 2008

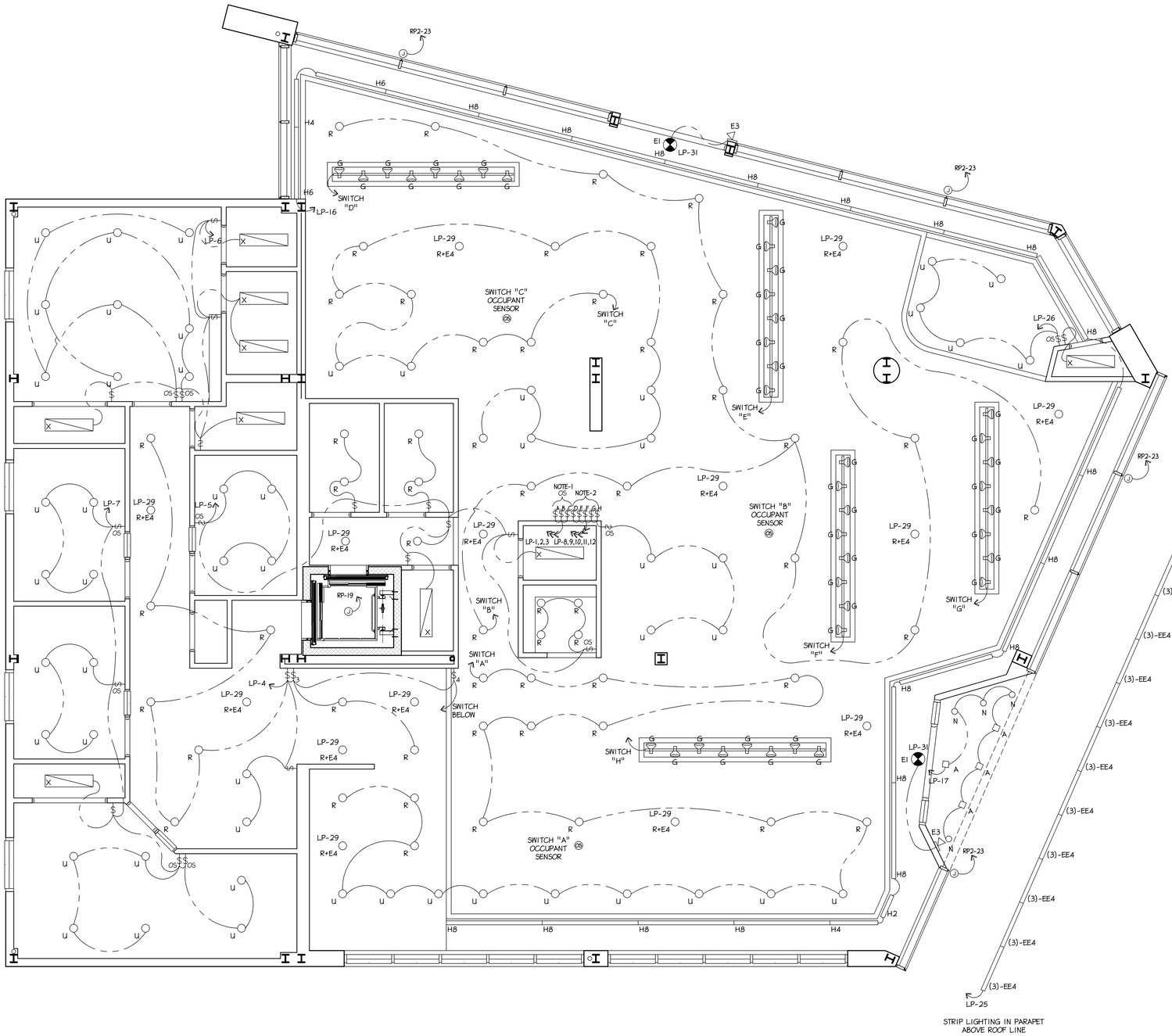
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Ardmore, Pennsylvania 19003

LOWER MERION TOWNSHIP
MONTGOMERY COUNTY

SHEET TITLE
ELECTRICAL LIGHTING PLAN
DELIVERY / VEHICLE PREP

SHEET NUMBER
E-1
REV 4

2610c-SHEET.dwg
05-14-08



1 ELECTRICAL LIGHTING PLAN - GALLERY / SALES AREA / MEZZANINE
E-2 Scale: 1/4"=1'-0"

LIGHTING FIXTURE SCHEDULE

SYMBOL	LETTER	DESCRIPTION
	A	LOCATION: ENTRY VESTIBULE MANUFACTURER: RUUD #LTI10003320 W/ L-703G3K 6" SQUARE RECESSED DOWNLIGHT MH TRIMLESS REMARKS: LAMP - 35W PAR30 METAL HALIDE SPOT 3000K
	EE4	LOCATION: FEATURE GLASS WALL BACK LIGHTING MANUFACTURER: RUUD #J04MS0003 W/ SR (SYM. REFLECTOR) SURFACE MNT 48" LINEAR FLOURSCENT REMARKS: LAMPS - (2)28W, T5 3000K (F28T5)
	G	LOCATION: GALLERY ABOVE VEHICLES MANUFACTURER: RUUD # TLP3WP3WT w/ L-703P30SP TRACK MH HEAD w/ +1100K CORRECTIVE FILTER REMARKS: LAMP - PHILIPS 38W CDM-R111 NSP 3000K
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	J	LOCATION: NEW VEHICLE DELIVERY MANUFACTURER: RUUD #RRH9032A-3961 w/ RRH9032B-AF w/ L-703G4K RECESSED ADJUSTABLE w/ +1100K CORRECTIVE FILTER REMARKS: LAMP - PHILIPS 38W CDM-R111 NFL 3000K
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	N	LOCATION: ENTRY ELEMENT SOFFIT MANUFACTURER: RUUD #RRH16R2507 w/ RTR6WSR30MF w/ L-707P30FL RECESSED METAL HALIDE WALL WASH REMARKS: LAMP - (1)70W MH PAR38 FLOOD 3000K
	R	LOCATION: CORRIDORS / LOUNGE MANUFACTURER: RUUD #RPF6HZE13ALI w/ RTF6HZT00WF w/ L-232T441 RECESSED FLUORESCENT DOWNLIGHT REMARKS: LAMP - (1)32W PLT 4100K
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LEGEND

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- IG ISOLATED GROUND DUPLEX RECEPTACLE HUBBELL #IG5252
- GFI GROUND FAULT DUPLEX RECEPTACLE HUBBELL #GF5252
- SINGLE POLE SWITCH HUBBELL #1201
- OS OCCUPANT SENSOR SWITCH HUBBELL #AT1277
- OCCUPANT SENSOR & CONTRL UNIT HUBBELL #ATD12000C W/ CU277A
- NETWORK DEVICE CONNECTION HUBBELL #HXJ6
- TELEPHONE DEVICE CONNECTION HUBBELL #HXJ4
- JUNCTION BOX / WORK BOX
- CR 45 FT. 12/3 CORD REEL HUBBLEE/KELLEMS #HBL451232R
- SAFETY DISCONNECT
- FACP FIRE ALARM CONTROL PANEL
- F FIRE ALARM MANUAL PULL STATION M.H. 48" A.F.F.
- S SMOKE DETECTOR
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OCCUPANT SENSOR NOTES:

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FINAL 02/18/2008
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523 Kimberton Road, Suite 11B Phoenixville, PA 19460
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Contact Person:
Edward M. Happ
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B2610	EMH	EMH

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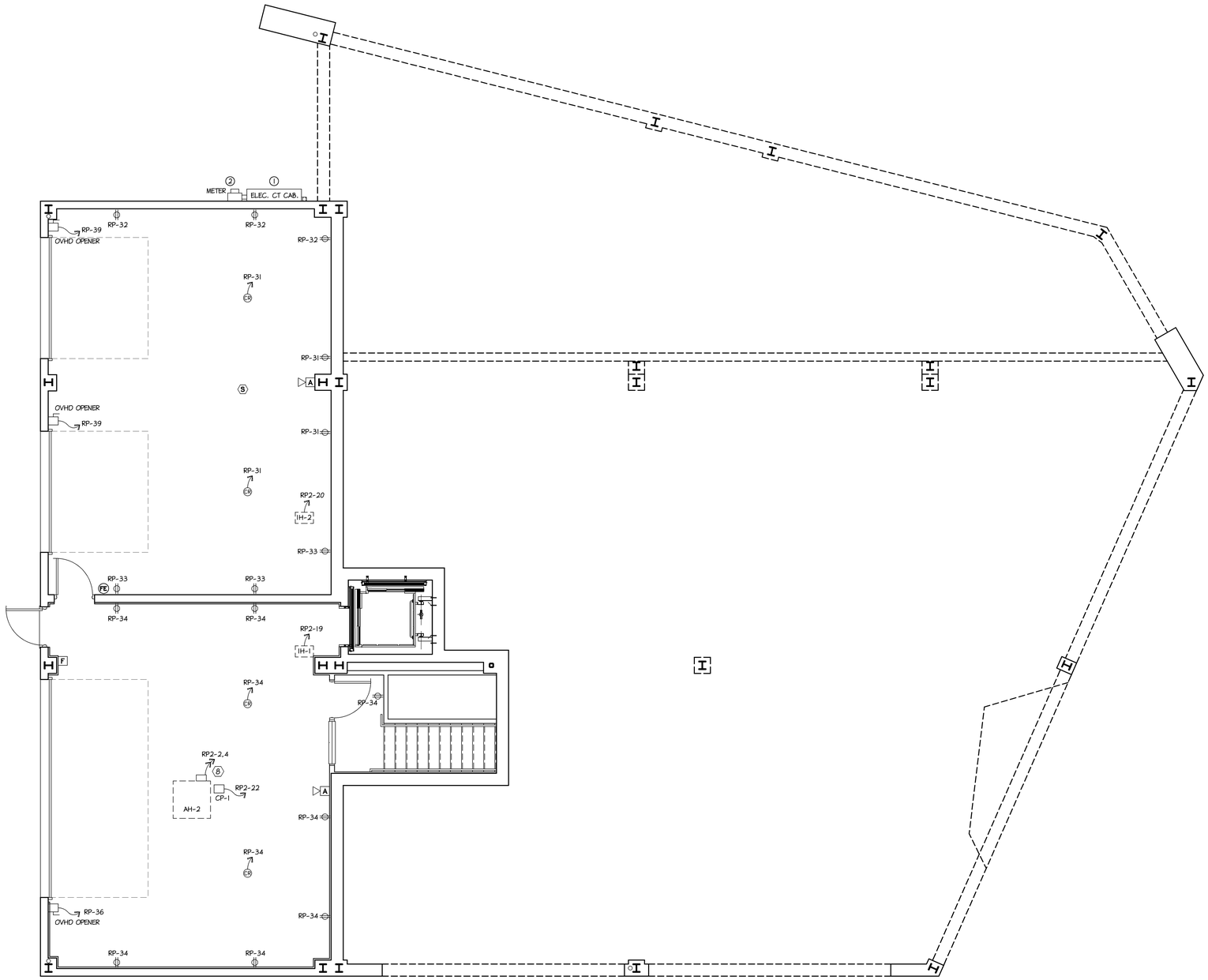
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LOWER MERION TOWNSHIP
MONTGOMERY COUNTY

SHEET TITLE
ELECTRICAL LIGHTING PLAN
GALLERY / SALES AREA /
MEZZANINE AREA

SHEET NUMBER
E-2
REV 4

2610c-3(GSA).dwg
05-14-08



1 / E-3 ELECTRICAL POWER PLAN - DELIVERY / VEHICLE PREP
Scale: 1/4"=1'-0"

LEGEND

- DUPLEX RECEPTACLE HUBBELL #HBL5252
- IG ISOLATED GROUND DUPLEX RECEPTACLE HUBBELL #IG5252
- GFI GROUND FAULT DUPLEX RECEPTACLE HUBBELL #GF5252
- SINGLE POLE SWITCH HUBBELL #1201
- OS OCCUPANT SENSOR SWITCH HUBBELL #WT1277
- OCCUPANT SENSOR & CONTRL UNIT HUBBELL #WTD2000C W/ CU277A
- NETWORK DEVICE CONNECTION HUBBELL #HXJ6
- TELEPHONE DEVICE CONNECTION HUBBELL #HXJJ
- JUNCTION BOX / WORK BOX
- CR 45 FT. 12/3 CORD REEL HUBBLEE/KELLEMS #HBL4512J2R
- SAFETY DISCONNECT
- FACP FIRE ALARM CONTROL PANEL
- F FIRE ALARM MANUAL PULL STATION M.H. 48" A.F.F.
- S SMOKE DETECTOR
- A HORN AND STROBE M.H. 96" A.F.F.

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DELIVERY / VEHICLE PREP

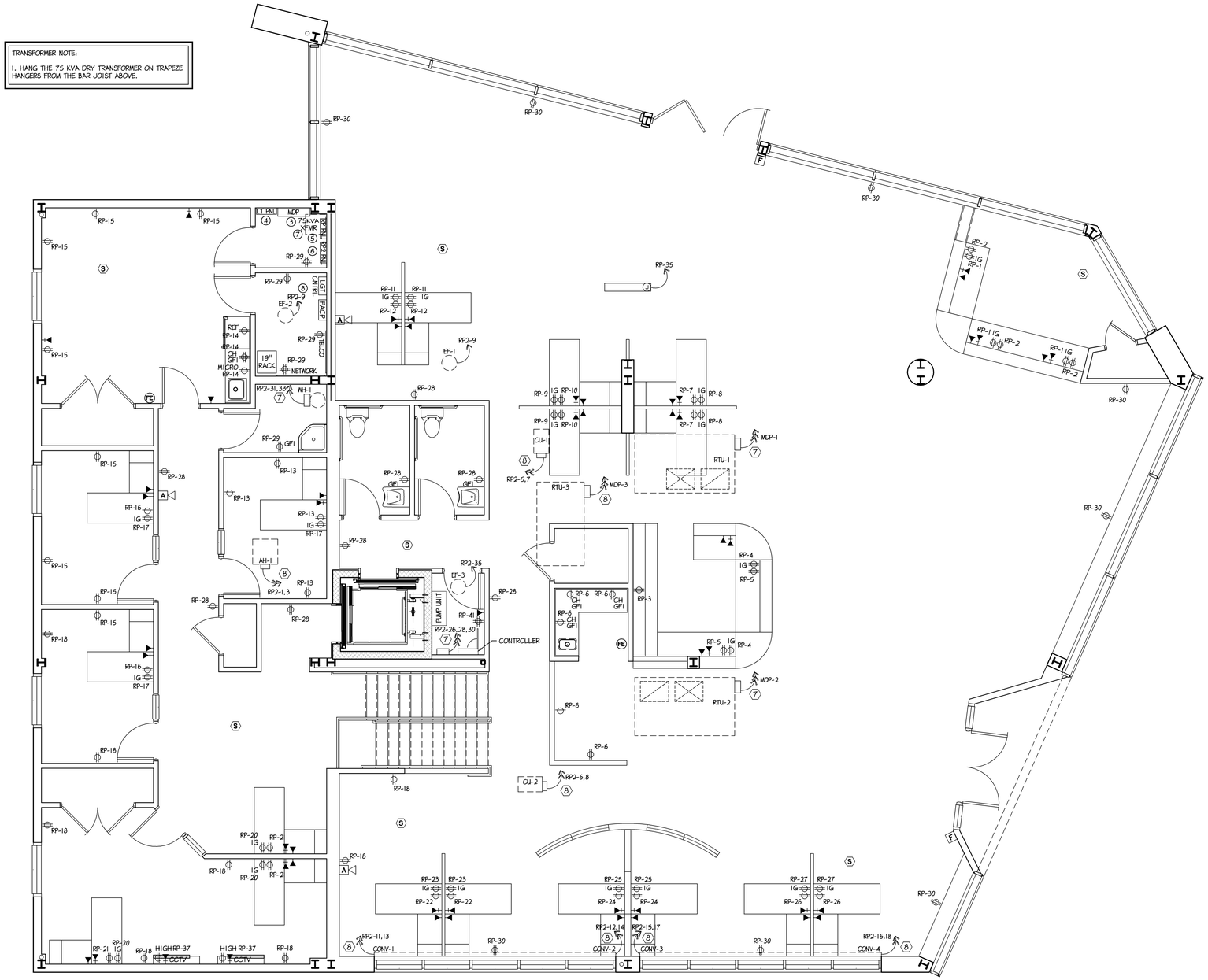
SHEET NUMBER
E-3

REV 4

2610c-SheSht1.dwg
05-14-08

TRANSFORMER NOTE:

1. HANG THE 75 KVA DRY TRANSFORMER ON TRAPEZE HANGERS FROM THE BAR JOIST ABOVE.



LEGEND

⊕	DUPLEX RECEPTACLE HUBBELL #HBL5252
⊕IG	ISOLATED GROUND DUPLEX RECEPTACLE HUBBELL #IG5252
⊕GFI	GROUND FAULT DUPLEX RECEPTACLE HUBBELL #GF5252
$	SINGLE POLE SWITCH HUBBELL #1201
$OS	OCCUPANT SENSOR SWITCH HUBBELL #WT277
⊠	OCCUPANT SENSOR 6 CONTRL UNIT HUBBELL #WTD2000C W/ CU277A
⊣◄	NETWORK DEVICE CONNECTION HUBBELL #HXJ6
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	SAFETY DISCONNECT
FACP	FIRE ALARM CONTROL PANEL
F	FIRE ALARM MANUAL PULL STATION M.H. 48" A.F.F.
S	SMOKE DETECTOR
A	HORN AND STROBE M.H. 96" A.F.F.

1 E-4 ELECTRICAL POWER PLAN - GALLERY / SALES AREA / MEZZANINE

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

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4	05-14-08	EMH	CONSTRUCTION REVISION
5			
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14			
15			

APPROVED BY	CURRENT DATE
Robin J. Kohn, AIA	May 14, 2008

INFINITI of Ardmore
306 W Lancaster Avenue
Ardmore, Pennsylvania 19003

LOWER MERION TOWNSHIP
MONTGOMERY COUNTY

SHEET TITLE

ELECTRICAL POWER PLAN
GALLERY / SALES AREA /
MEZZANINE AREA

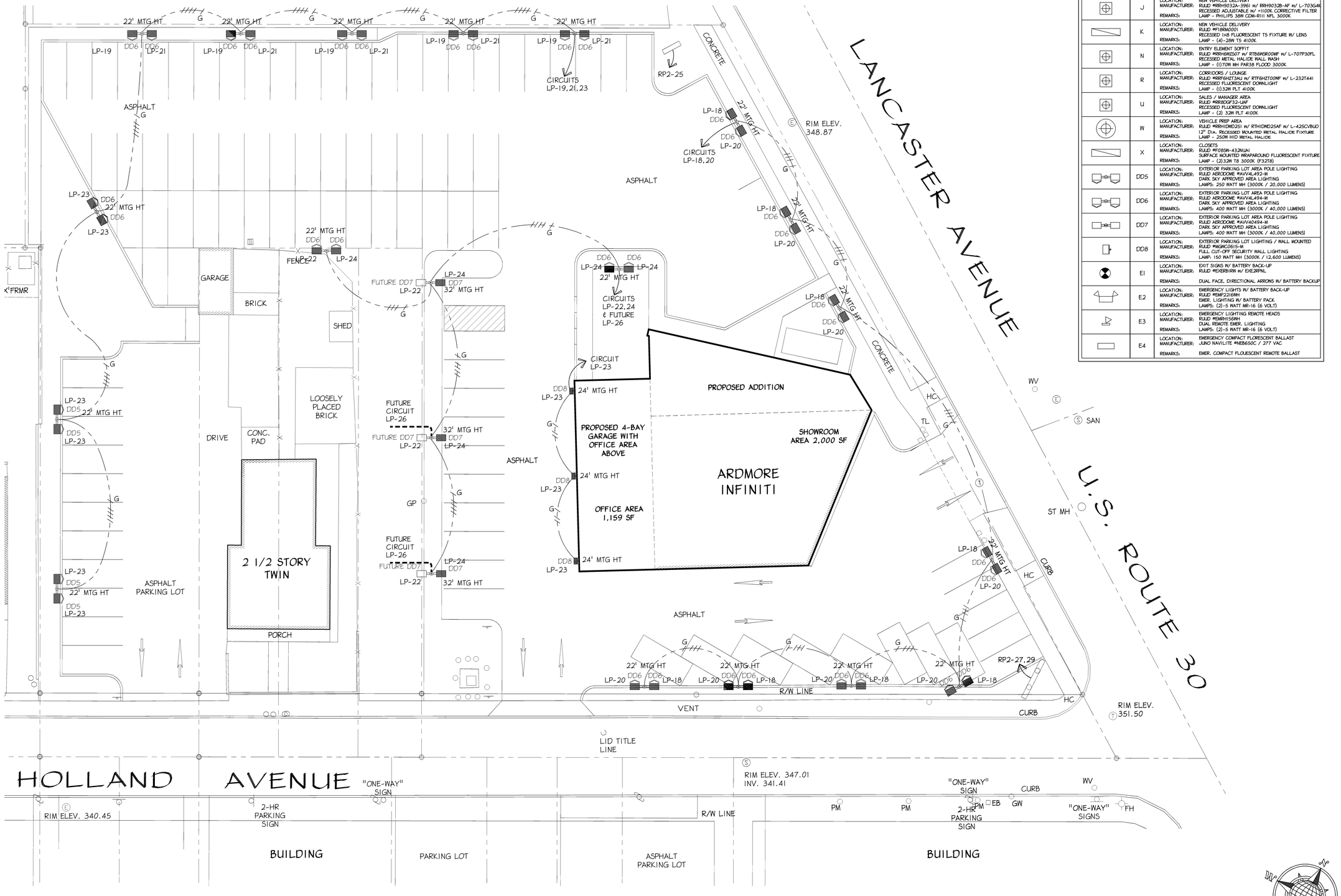
SHEET NUMBER

E-4

REV 4

2610c-SHEET1.dwg

05-14-08



1 E-5 ELECTRICAL - EXTERIOR LIGHTING PLAN
Scale: 1/8"=1'-0"

LIGHTING FIXTURE SCHEDULE

SYMBOL	LETTER	DESCRIPTION
	A	LOCATION: ENTRY VESTIBULE MANUFACTURER: RUUD #LTI10003320 W/ L-703G3K 6" SQUARE RECESSED DOWNLIGHT MH TRIMLESS REMARKS: LAMP - 35W PAR30 METAL HALIDE SPOT 3000K
	EE4	LOCATION: FEATURE GLASS WALL BACK LIGHTING MANUFACTURER: RUUD #J04MS0003 W/ SR (SYM. REFLECTOR) SURFACE MNT 48" LINEAR FLOURSCENT REMARKS: LAMPS - (2)28W, T5 3000K (F28T5)
	G	LOCATION: GALLERY ABOVE VEHICLES MANUFACTURER: RUUD # TLP3MP3WT w/ L-703P30SP TRACK MH HEAD W/ +1100K CORRECTIVE FILTER REMARKS: LAMP - PHILIPS 38W CDM-R111 NSP 3000K
	H8 H6 H4 H2	LOCATION: COVE LIGHTING MANUFACTURER: RUUD #F08SS0039 / F06SS0005 / F04SS0042 / F02SS0010 SURFACE MNT FLUORESCENT FIXTURE 8 / 6 / 4 / 2 FT REMARKS: LAMPS - (2)32W / (2)25W / (1)32W / (1)17W T8 4100K
	J	LOCATION: NEW VEHICLE DELIVERY MANUFACTURER: RUUD #RRH9032A-3961 w/ RRH9032B-AF w/ L-703G4K RECESSED ADJUSTABLE w/ +1100K CORRECTIVE FILTER REMARKS: LAMP - PHILIPS 38W CDM-R111 NFL 3000K
	K	LOCATION: NEW VEHICLE DELIVERY MANUFACTURER: RUUD #F18RM0001 RECESSED 1x8 FLUORESCENT T5 FIXTURE W/ LENS REMARKS: LAMP - (4) -28W T5 4100K
	N	LOCATION: ENTRY ELEMENT SOFFIT MANUFACTURER: RUUD #RRH16RZ507 w/ RTR6MRR20MF w/ L-707P30FL RECESSED METAL HALIDE WALL WASH REMARKS: LAMP - (1)70W MH PAR38 FLOOD 3000K
	R	LOCATION: CORRIDORS / LOUNGE MANUFACTURER: RUUD #RFB6HZEI3ALU W/ RTF6HZT02WF w/ L-232T441 RECESSED FLUORESCENT DOWNLIGHT REMARKS: LAMP - (1)32W PLT 4100K
	U	LOCATION: SALES / MANAGER AREA MANUFACTURER: RUUD #RRADGF32-LIAP RECESSED FLUORESCENT DOWNLIGHT REMARKS: LAMP - (2) 32W PLT 4100K
	W	LOCATION: VEHICLE PREP AREA MANUFACTURER: RUUD #RRHIDWD25I w/ RTHIDWD25AF w/ L-425CVBUD 12" DIA. RECESSED MOUNTED METAL HALIDE FIXTURE REMARKS: LAMP - 250W HID METAL HALIDE
	X	LOCATION: CLOSETS MANUFACTURER: RUUD #F08SN-432NUAI SURFACE MOUNTED WRAPAROUND FLUORESCENT FIXTURE REMARKS: LAMP - (2)32W T8 3000K (F32T8)
	DD5	LOCATION: EXTERIOR PARKING LOT AREA POLE LIGHTING MANUFACTURER: RUUD AERODOME #AVV4L492-M DARK SKY APPROVED AREA LIGHTING REMARKS: LAMPS: 250 WATT MH (3000K / 20,000 LUMENS)
	DD6	LOCATION: EXTERIOR PARKING LOT AREA POLE LIGHTING MANUFACTURER: RUUD AERODOME #AVV4L494-M DARK SKY APPROVED AREA LIGHTING REMARKS: LAMPS: 400 WATT MH (3000K / 40,000 LUMENS)
	DD7	LOCATION: EXTERIOR PARKING LOT AREA POLE LIGHTING MANUFACTURER: RUUD AERODOME #AVV40494-M DARK SKY APPROVED AREA LIGHTING REMARKS: LAMPS: 400 WATT MH (3000K / 40,000 LUMENS)
	DD8	LOCATION: EXTERIOR PARKING LOT LIGHTING / WALL MOUNTED MANUFACTURER: RUUD #MGMC0615-M FULL CUT-OFF SECURITY WALL LIGHTING REMARKS: LAMP: 150 WATT MH (3000K / 12,600 LUMENS)
	EI	LOCATION: EXIT SIGNS W/ BATTERY BACK-UP MANUFACTURER: RUUD #EXERBIRN W/ EXE2RRNL REMARKS: DUAL FACE, DIRECTIONAL ARROWS W/ BATTERY BACKUP
	E2	LOCATION: EMERGENCY LIGHTS W/ BATTERY BACK-UP MANUFACTURER: RUUD #EMP2216WH EMER. LIGHTING W/ BATTERY PACK REMARKS: LAMPS: (2)-5 WATT MR-16 (6 VOLT)
	E3	LOCATION: EMERGENCY LIGHTING REMOTE HEADS MANUFACTURER: RUUD #EMRH156WH DUAL REMOTE EMER. LIGHTING REMARKS: LAMPS: (2)-5 WATT MR-16 (6 VOLT)
	E4	LOCATION: EMERGENCY COMPACT FLORESCENT BALLAST MANUFACTURER: JUNO NAVILITE #NEB650C / 277 VAC REMARKS: EMER. COMPACT FLOUESCENT REMOTE BALLAST

FINAL 02/18/2008
ISSUED FOR PERMIT

Betzwood Associates PC
Architects & Engineers
Robin J. Kohn, AIA
Regis W. Kubit, PE

COMMONWEALTH OF PENNSYLVANIA
REGISTERED
PROFESSIONAL
REGIS WILLIAM KUBIT
ENGINEER
No. 6968-E

523 Kimberton Road, Suite 11B Phoenixville, PA 19460
tel. (610) 917-8831 fax (610) 917-8836
email mail@betzwood.com http//www.betzwood.com

Regis W. Kubit, P.E.
Commonwealth of Pennsylvania
License No. PE-6968-E

Contact Person:
Edward M. Happ
(610) 917-8831

PROJECT NO.	DRAWN BY	CHK'D BY
B2610	EMH	EMH

NO.	DATE	BY	ISSUE
1	11-16-07	EMH	ISSUED FOR PERMIT
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3	02-18-08	EMH	REVISED ADA & EXT. LIGHTING CONDITIONS (ELEVATOR)
4	05-14-08	EMH	CONSTRUCTION REVISION
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APPROVED BY	CURRENT DATE
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INFINITI of Ardmore
306 W Lancaster Avenue
Ardmore, Pennsylvania 19003

LOWER MERION TOWNSHIP
MONTGOMERY COUNTY

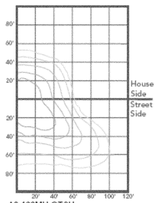
SHEET TITLE
ELECTRICAL PLAN
EXTERIOR LIGHTING

SHEET NUMBER
E-5

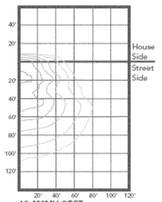
REV 4

05-14-08 2610c-SIGEXt.dwg

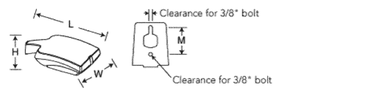




A2-400MH-QT-3H
Horizontal Lamp,
30' Mounting Height



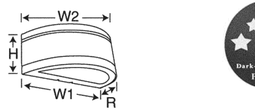
A2-400MH-QT-FT
Horizontal Lamp,
House Side Shield NOT used,
30' Mounting Height



	EPA	L	W	H	M	Weight
AP1 Series	0.8 ft²	23"	14"	5 7/8"	3"	28 lb.
AP2 Series	1.2 ft²	32"	18 5/8"	7 9/16"	3"	49 lb.

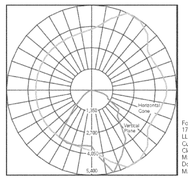
3 E-6 ELECTRICAL - EXTERIOR LIGHTING FIXTURE
Scale: N.T.S. — Acculite - Alari (400 Watt MH)





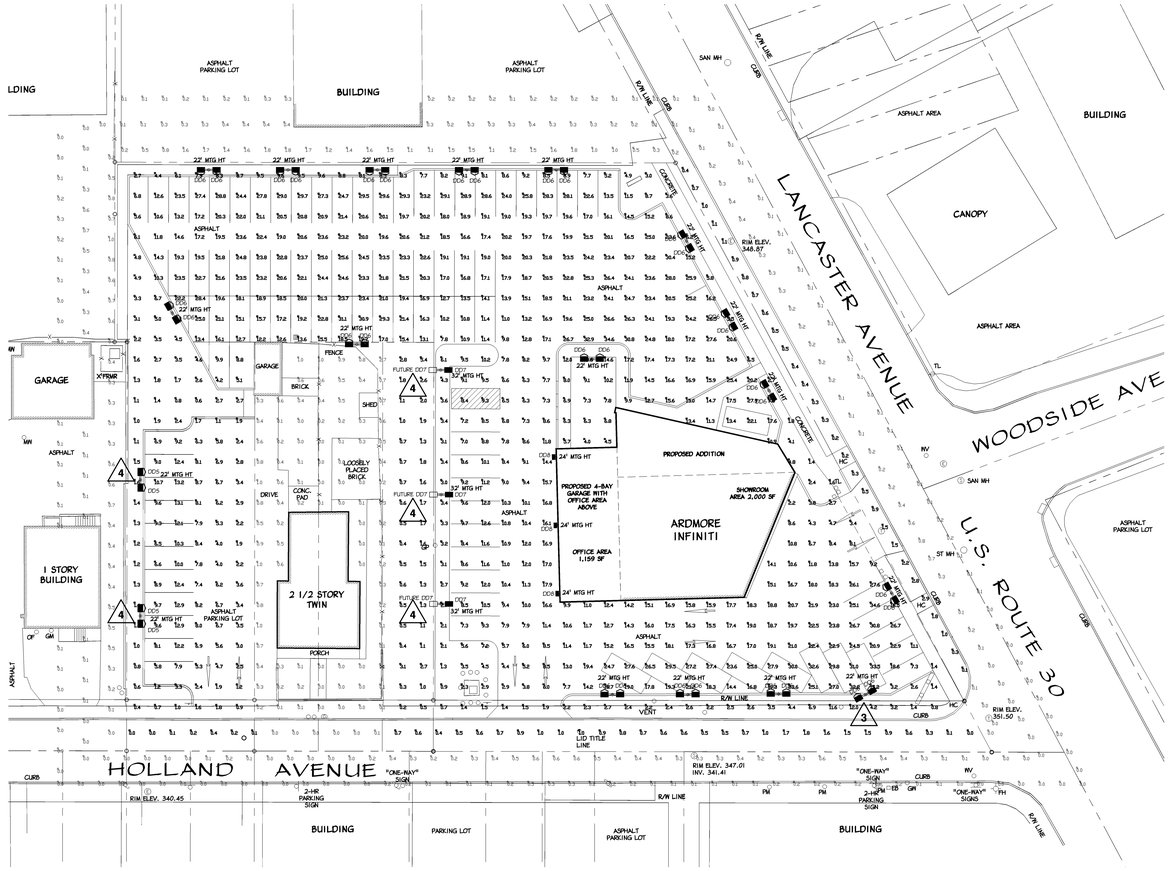
W1 Width @ Bottom	W2 Width @ Top	R Radius	H Height
18 1/8"	17 3/4"	9 1/4"	7 1/8"

DR175PS-QT-FT-L



Forward Throw - IES Classification: Type II
175W clear probe start metal halide
LED704-01C
Cut-Off Classification: Full Cut-off
Clear lamp, Lumen rating - 11,700
Maximum Candella: 5417
Downward Efficiency: 74.8%
Maximum Candella Angle: 69H / 15V

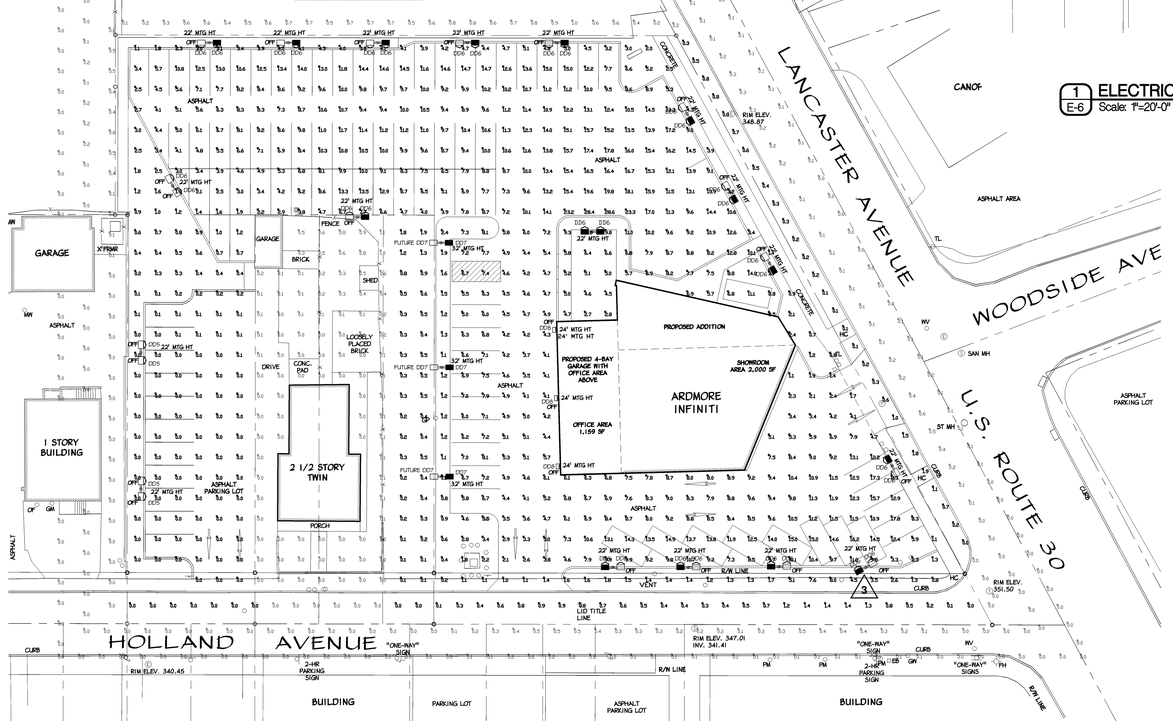
4 E-6 ELECTRICAL - EXTERIOR LIGHTING FIXTURE
Scale: N.T.S. — Acculite - Polaris (150 Watt MH)



1 E-6 ELECTRICAL - EXTERIOR LIGHTING LEVELS
Scale: 1"=20'-0"

Luminaire Schedule						
Symbol	Poles	Qty	Label	Lumens	LLF	Description
	2	4	DD5	20,000	1.000	ACSPAM0003-2-FT-SH
	18	36	DD6	40,000	1.000	ACSPAM0004-2-FT-SH
	3	3/3	DD7	40,000	1.000	ACSPAM0005-1-FT-SH
	N/A	3	DD8	12,600	1.000	DR150PS-QT-FT

Numeric Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Parking Lot	Illuminance	Fc	12.10	34.6	0.6	20.17	57.67
Spill @ 5ft above grade	Illuminance	Fc	0.56	5.8	0.0	N.A.	N.A.



2 E-6 ELECTRICAL - 50% REDUCTION EXT. LIGHTING LEVELS
Scale: 1"=20'-0"

50% Reduction of Lighting

Numeric Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Parking Lot	Illuminance	Fc	5.35	28.6	0.0	N.A.	N.A.
Spill @ 5ft above grade	Illuminance	Fc	0.23	2.9	0.0	N.A.	N.A.

Lighting Notes:

1. Lighting plans where prepared by Juno Lighting Group of Kitchener, Ontario.
2. Fixtures Selected are Acculite Alari Plus type Double (pole mounted) 400 watt HID Pulse Start Metal Halide (3000k / 40,000 lumens) and Acculite Polaris Security Lighting (wall mounted) 150 watt HID Pulse Start Metal Halide Forward Throw (3000k / 12,600 lumens). Refer to Manuf. Catalog No. for options selected (most fixtures have rotated left or right facing optics).
3. Lighting has been designed to minimize off-site transmission of light, shielding and directional lighting has been utilized. Acculite Fixtures meet the International Dark Sky Association specifications for full cut-off luminaries (IDA) (L.D. Condition #25).
4. 50% reduction of lighting output from all exterior fixtures has been designed to meet horizontally, vertically or line of sight, at a height of five (5) feet above grade condition which shall not exceed a value of one (1) foot-candle at the residential property lines and two (2) foot-candles at the Lancaster Avenue cartway and the Holland Avenue property line (L.D. Condition #26).
5. Perimeter lighting adjacent to any residentially zoned property was designed to the minimum necessary for security purposes and exhibit the least impact on residential properties as practicable after 10:00 PM the light fixtures along the rear property line are shown turned off (L.D. Condition #27).
6. Pole heights of 22 feet and 32 feet have been determined to the most efficient and provide the least amount of impact on neighboring properties (L.D. Condition #27).
7. All interior luminaries shall be shielded to minimize upward directed light and reduce outward directed light leaving the "Feature Wall" glass windows (L.D. Condition #28).
8. The upper section of the "Feature Wall" glass is lite from within the parapet and shall be turned off within one hour after the close of business, but no later than 10:00 PM. (L.D. Condition #28a& 28b).
9. All lighting shall comply with the requirements of the IECC 2006 a division of the PA UCC (L.D. Condition #28c).
10. All logos shall be halo lighted, all lamp sources shall be directed backwards toward wall surface. Logos shall be turned off within one hour after the close of business, but no later than 11:00 PM. (L.D. Condition #29).

FINAL 02/18/2008
ISSUED FOR PERMIT

Betzwood Associates PC
Architects & Engineers
Robin J. Kohn, AIA — Regis W. Kubit, PE

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523 Kimberton Road, Suite 11B Phoenixville, PA 19460
tel (610) 917-8831 fax (610) 917-8836
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APPROVED BY: Robin J. Kohn, AIA
CURRENT DATE: May 14, 2008

INFINITI of Ardmore
306 W Lancaster Avenue
Ardmore, Pennsylvania 19003

LOWER MERION TOWNSHIP
MONTGOMERY COUNTY

SHEET TITLE
ELECTRICAL PLAN
EXTERIOR LIGHT LEVELS
& LAND DEVELOPMENT
CONDITIONS

SHEET NUMBER
E-6
REV 4

2610c-SitSht.dwg
05-14-08

"RP2" PANEL SCHEDULE

PANEL: RP2 VOLTAGE: 208/120 PHASE: 3 WIRES: 4 MAINS: 225 AMP MLO

MOUNT: SURFACE ENCLOSURE: NEMA-1 LOCATION: ELECTRICAL CLOSET

DESCRIPTION	LOAD		TRIP	CKT	A	B	C	CKT	TRIP		LOAD	DESCRIPTION
AH-1	175		20/2	1	2570			2	20/2		2395	AH-2
				3		2395		4				
CU-1	120		20/2	5			1950	6	20/2		1830	CU-2
				7	1950			8				
EF-1	125		20/1	9		250		10	20/1		125	EF-2
CONV-1	1520		20/2	11			3040	12	20/2		1520	CONV-2
				13	3040			14				
CONV-3	1520		20/2	15		3040		16	20/2		1520	CONV-4
				17			3040	18				
OIL INTERCEPTOR MONITOR	150		20/1	19	150			20	20/1		-	SPARE
IN-1	575		20/1	21		725		22	20/1		150	CONDENSATE PUMP (CP-1)
EXTERIOR SIGNAGE	575		20/1	23			1150	24	20/1		575	IN-2
EXTERIOR SIGNAGE	575		20/1	25	3820			26	30/3		3245	ELEVATOR LIFT MOTOR
EXTERIOR SIGNAGE	575		20/1	27		3820		28				
EXTERIOR SIGNAGE	575		20/1	29			3820	30				
WATER HEATER (WH-1)	4500		30/2	31	4500			32	-		-	SPACE
			33			4500		34	-		-	SPACE
ELEV. EXHAUST FAN EF-3	525		20/1	35			525	36	-		-	SPACE
SPACE	-		-	37	-			38	-		-	SPACE
SPACE	-		-	39		-		40	-		-	SPACE
SPACE	-		-	41			-	42	-		-	SPACE

PHASE A: 16,030 PHASE B: 14,730 PHASE C: 13,575 TOTAL VA: 44,285

MFG./TYPE: SQUARE D MODIFICATIONS: AMPS RMS. SYM: 123.0

NQOD442L225 W/ MHC36S (COVER), PK23GTA (GRD BAR KIT)
¢ (11)-QOB120, (8)-QOB220, (1)-QOB330 ¢ (1)-QOB320 (BRANCH C.B.'s)

"RP" PANEL SCHEDULE

PANEL: RP VOLTAGE: 208/120 PHASE: 3 WIRES: 4 MAINS: 225 AMP MLO

MOUNT: SURFACE ENCLOSURE: NEMA-1 LOCATION: ELECTRICAL CLOSET

DESCRIPTION	LOAD		TRIP	CKT	A	B	C	CKT	TRIP		LOAD	DESCRIPTION
SALES MANAGER IG RECPT	750		20/1	1	1500			2	20/1		750	SALES MANAGER RECPT
RECEPTION DISPLAY RECPT	360		20/1	3		1260		4	20/1		900	RECEPTION IG RECPT
RECEPTION RECPT	360		20/1	5			720	6	20/1		360	KITCHENETTE RECPT
SALES IG RECPT	360		20/1	7	720			8	20/1		360	SALES DESK RECPT
SALES IG RECPT	360		20/1	9		720		10	20/1		360	SALES DESK RECPT
SALES IG RECPT	360		20/1	11			720	12	20/1		360	SALES DESK RECPT
SALES RECPT	180		20/1	13	830			14	20/1		650	BREAK ROOM RECPT
BREAK ROOM RECPT	1440		20/1	15		1800		16	20/1		360	SALES OFFICE IG RECPT
SALES RECPT	540		20/1	17			1980	18	20/1		1440	REAR OFFICE RECPT
ELEVATOR LIGHTING	500		20/1	19	1040			20	20/1		540	SALES DESK IG RECPT
SALES DESK. RECPT	540		20/1	21		900		22	20/1		360	SALES DESK RECPT
SALES DESK. IG RECPT	360		20/1	23			1980	24	20/1		360	SALES DESK RECPT
SALES DESK. IG RECPT	360		20/1	25	720			26	20/1		360	SALES DESK RECPT
SALES DESK IG RECPT	360		20/1	27		1800		28	20/1		1440	RESTRM & HALL RECPT
ELEC & CLO RECPT	540		20/1	29			1980	30	20/1		1440	PERIMETER RECPT
VEHICLE PREP RECPT	540		20/1	31	1080			32	20/1		540	VEHICLE PREP RECPT
VEHICLE PREP RECPT	540		20/1	33		1620		34	20/1		1080	VEHICLE DELIVERY RECPT
SHOWROOM DISPLAY	320		20/1	35			1320	36	20/1		1000	18' OVHD DOOR OPENER
MONITORS RECPT	500		20/1	37	16530			38	125/3		16030	RP2 PANEL
(2)-8' OVHD DOOR OPENER	1500		20/1	39		16230		40			14730	
ELEVATOR MECH RECEPT.	250		20/1	41			13300	42			13575	

PHASE A: 22,420 PHASE B: 24,330 PHASE C: 22,475 TOTAL VA: 69,125

MFG./TYPE: SQUARE D MODIFICATIONS: AMPS RMS. SYM: 192.0

NQOD442L225 W/ MHC36S (COVER), PK23GTA (GRD BAR KIT)
¢ (39)-QOB120 ¢ (1)QOB3125VH (BRANCH C.B.'S)

"LP" PANEL SCHEDULE

PANEL: LP VOLTAGE: 480/277 PHASE: 3 WIRES: 4 MAINS: 225 AMP MLO

MOUNT: SURFACE ENCLOSURE: NEMA-1 LOCATION: ELECTRICAL CLOSET

DESCRIPTION	LOAD		TRIP	CKT	A	B	C	CKT	TRIP		LOAD	DESCRIPTION
SHOWROOM LTS EAST	1435		20/1	1	2405			2	20/1		970	SHOWROOM LTS CENTER
SHOWROOM LTS WEST	1020		20/1	3		1535		4	20/1		515	MANAGERS OFFICE LTS
RECEPT CENTER OFFICE LTS	1040		20/1	5			2125	6	20/1		1085	REAR OFFICE UTILITY LTS
REAR OFFICE LTS	1190		20/1	7	1590			8	20/1		400	CAR DISPLAY LTS
CAR DISPLAY LTS	400		20/1	9		800		10	20/1		400	CAR DISPLAY LTS
CAR DISPLAY LTS	400		20/1	11			800	12	20/1		400	CAR DISPLAY LTS
VEHICLE DELIVERY LTS	750		20/1	13	1110			14	20/1		360	VEHICLE DELIERY LTS
VEHICLE PREP LTS	1650		20/1	15		4550		16	20/1		2900	PERIMETER SOFFIT LTS
FRONT ENTRY LTS	560		20/1	17			3960	18	20/1		3400	PARKING LOT ALONG ST LTS
PARKING LOT REAR LTS	2200		20/1	19	5600			20	20/1		3400	PARKING LOT ALONG ST LTS
PARKING LOT REAR LTS	2200		20/1	21		4000		22	20/1		1800	PARKING LOT INT LTS
EMPLOYEE PARKING LTS	2600		20/1	23			4800	24	20/1		2200	CUSTOMER PARKING LTS
PERIMETER PARAPET LTS	2500		20/1	25	2500			26	20/1		-	FUTURE PARKING LTS
SPARE	-		20/1	27		-		28	20/1		-	SPARE
EMERGENCY LIGHTING	1750	HPAFD	20/1	29			1750	30	20/1		-	SPARE
EMERGENCY EXIT LIGHTS	750	HPAFD	20/1	31	900			32	20/1		150	LIGHTING TIMER POWER
SPACE	-		-	33		150		34	20/1		150	LIGHTING TIMER POWER
SPACE	-		-	35			-	36	-		-	SPACE
SPACE	-		-	37	-			38	-		-	SPACE
SPACE	-		-	39		-		40	-		-	SPACE
SPACE	-		-	41			-	42	-		-	SPACE

PHASE A: 14,105 PHASE B: 10,885 PHASE C: 13,435 TOTAL VA: 38,425

MFG./TYPE: SQUARE D MODIFICATIONS: AMPS RMS. SYM: 46.2

NF442L2 W/ NC44S (COVER), PK23GTA (GRD BAR KIT)
¢ (31)-EDB14020 ¢ (2)-EDB14020-HPAFD (BRANCH C.B.'s)

"MDP" PANEL SCHEDULE

PANEL: MDP VOLTAGE: 480/277 PHASE: 3 WIRES: 4 MAINS: 400 AMP W/ MAIN CIRCUIT BREAKER

MOUNT: SURFACE ENCLOSURE: NEMA-1 LOCATION: ELECTRICAL CLOSET

DESCRIPTION	LOAD		TRIP	CKT	A	B	C	CKT	TRIP		LOAD	DESCRIPTION
RTU -1 (HACR)	18750		30/3	1	37500			2	30/3		18750	RTU-2 (HACR)
						37500						
RTU-3 (HACR)	7500		20/3	3	29920			4	100/3		22420	RECEPT PANELS XFMER (T-1) 75 KVA
							37500					
					31830						24330	
							29450				22475	
LIGHTING PANEL "LP"	14105		150/3	5	14105			6			-	
	10885					10885					-	
	13435						13435				-	
	-		7	-				8			-	
	-				-						-	
	-						-				-	

PHASE A: 81,525 PHASE B: 80,215 PHASE C: 80,910 TOTAL VA: 242,650

MFG./TYPE: SQUARE D MODIFICATIONS: AMPS RMS. SYM: 292.0
I-LINE PANEL #HCN23744M W/ 400 AMPERE DEMAND AMPS: ---
3 POLE 480 VAC MCB W/ HCN74TSD TRIM

BILL OF MATERIAL

ITEM	QUANTITY	DWG NO.	FURNISHED BY	DESCRIPTION
1	1	E-3	ELEC. CONT.	METERING CURRENT TRANSFORMER CABINET 42"Hx54"Lx12"D
2	1	E-3	PECO	METER BOARD, C.T.'S & P.T.'S
3	1	E-4	ELEC. CONT.	MAIN DISTRIBUITION PANEL "MDP" SQUARE D #HCN23744M W/ 400 AMP 3 POLE 480 VAC MCB, HCN74TSD TRIM ¢ (2)-FA36030HCAR, (1)-FA36020HCAR, (1)-HDA36150 ¢ (1)-FA36100 (BRANCH C.B.'s).
4	1	E-4	ELEC. CONT.	LIGHTING PANEL "LP" SQUARE D #NF442L2 W/ NC44S (COVER), PK23GTA (GRD BAR KIT) ¢ (31)-EDB14020 ¢ (2)-EDB14020-HPAFD (BRANCH C.B.'s)
5	1	E-4	ELEC. CONT.	RECEPTACLE PANEL "RP" SQUARE D #NQOD442L225 W/ MHC36S (COVER), PK23GTA (GRD BAR KIT) ¢ (1)-QOB330, (1)-QOB320, (8)-QOB220 ¢ (11)-QOB120 (BRANCH C.B.'s)
6	1	E-4	ELEC. CONT.	RECEPTACLE PANEL "RP2" SQUARE D #NQOD442L225 W/ MHC36S (COVER), PK23GTA (GRD BAR KIT) ¢ (1)-QOB330, (1)-QOB320, (8)-QOB220 ¢ (11)-QOB120 (BRANCH C.B.'s)
7	1	E-4	ELEC. CONT.	TRANSFORMER "T-1" 75KVA DRY TRANSFORMER NEMA TP1 COMPLIANT SQUARE D #EE75T3H
8	2	E-4	ELEC. CONT.	DIGITAL LIGHTING CONTROL TIMER, 16 CIRCUIT, 24 HR/365 DAY TIMERS W/ INDIVIDUAL PROGRAMABLE CIRCUITS. INTERMATIC LIGHTING CONTROL EQUIP. SERIES EM1400 / MASTER PANEL.

CONDUIT & CABLE SCHEDULE

①	(3)-#500 MCM ¢ (1)-#1/0 GND. XHHW IN (1)-4" PVC.
②	(3)-#2/0 ¢ (1)-#2/0 GND. THHN IN (1)-2 1/2" EMT.
③	(3)-#6 ¢ (1)-#8 GND. THHN IN (1)-1 1/2" EMT.
④	(4)-#1 ¢ (1)-#6 GND. THHN IN (1)-1 1/2" EMT.
⑤	(4)-#2 ¢ (1)-#8 GND. THHN IN (1)-1 1/2" EMT.
⑥	(4)-#8 ¢ (1)-#8 GND. THHN IN (1)-1" EMT.
⑦	(3)-#10 ¢ (1)-#10 GND. THHN IN (1)-3/4" EMT.
⑧	(3)-#12 ¢ (1)-#12 GND. THHN IN (1)-3/4" EMT.

SQUARE D I-LINE #HCN23744M W/ 400 AMPERE 3 POLE 480 VAC MCB, #HCN74TSD TRIM ¢ (2)-FA36030HCAR, (1)-FA36020HCAR, (1)-HDA36150, ¢ (1)-FA36100 BRANCH CIRCUIT BREAKERS.

PART 1 - GENERAL.

1.1 GENERAL.

A. PROVIDE ALL LABOR AND MATERIAL REQUIRED, INCLUDING SUPPORTS AND OTHER APPURTENANCES, FOR A COMPLETE AND OPERATING INSTALLATION.

B. ALL MATERIALS SHALL BE NEW AND SHALL BE FURNISHED, INSTALLED, AND WIRED AS PART OF THIS CONTRACT, UNLESS OTHERWISE NOTED.

C. THE WORK SHALL CONFORM TO ALL APPLICABLE RULES, CODES AND REGULATIONS, INCLUDING BUT NOT LIMITED TO THE NATIONAL ELECTRIC CODE, IEC, ADA, AND ANY OTHER AUTHORITIES HAVING JURISDICTION.

D. ALL MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED FOR A MINIMUM OF ONE YEAR FOLLOWING THE DATE OF OWNER ACCEPTANCE UNLESS OTHERWISE NOTED.

E. PROVIDE AND PAY FOR TEMPORARY SERVICES AS REQUIRED, TEMPORARY LIGHTING AND POWER SHALL COMPLY WITH THE REQUIREMENTS OF OSHA.

F. ALL EQUIPMENT FURNISHED SHALL BEAR THE "UL" LABEL.

G. ALL WIRING SHALL BE INSTALLED IN CONDUIT OR MC CABLE UNLESS OTHERWISE NOTED.

H. NO WIRING SHALL BE SMALLER THAN #12 AWG. EXCEPT CONTROL WIRING SHALL BE #14 AWG. UNLESS OTHERWISE NOTED.

I. PROVIDE CERTIFIED ELECTRICAL INSPECTION OF ALL WORK.

J. PROVIDE SERVICE ENTRANCE EQUIPMENT APPROVED BY THE SERVING UTILITY COMPANY AND MARKED AS SUCH.

K. CONTRACT LIMITS: WHERE "LIMITS OF CONTRACT" DESIGNATIONS ARE INDICATED OR IMPLIED ON PLANS, THEY SHALL NOT APPLY TO ELECTRICAL SERVICE WORK NECESSARY TO SERVE THE PROJECT AND OCCURRING OUTSIDE OF THE "LIMITS OF CONTRACT" DESIGNATIONS.

1.2 COORDINATION

A. CONFIRM ALL EQUIPMENT WIRING WITH THE MANUFACTURER. PROVIDE MATERIALS AND LABOR DUE TO DISCREPANCIES AT NO ADDITIONAL COST TO OWNER.

B. COORDINATE ELECTRICAL WORK WITH THAT OF OTHER TRADES. PROVIDE OFFSETS, FITTINGS, AND SIMILAR ITEMS NECESSARY TO ACCOMPLISH THE REQUIREMENTS OF COORDINATION AT NO ADDITIONAL COST TO OWNER.

C. COORDINATE ALL EQUIPMENT AND CONTROLS WITH THE MECHANICAL DRAWINGS AND SPECIFICATIONS.

D. DRAWINGS ARE DIAGRAMMATIC AND CERTAIN SPECIALTIES ARE NOT SHOWN. HOWEVER, THEY SHALL BE PROVIDED AS REQUIRED.

E. COMPLY WITH THE REQUIREMENTS OF THE SERVING ELECTRIC UTILITY, TELEPHONE AND DATA COMPANIES.

1.3 PRODUCT CONDITIONS

A. THE INSTALLATION OF ALL ELECTRICAL EQUIPMENT SHALL COMPLY WITH THE REQUIREMENTS OF THE APPROPRIATE SEISMIC ZONE.

B. PROVIDE SELECTIVE DEMOLITION AS INDICATED OR IMPLIED. ALL EQUIPMENT INDICATED TO BE REMOVED SHALL BE OFFERED TO THE OWNER PRIOR TO DISPOSAL. PROTECT ADJACENT AREAS AGAINST DUST MIGRATION. ACCESS TO AND EQUIPMENT TRANSPORTATION TO RENOVATED AREA SHALL BE COORDINATED WITH OWNER. COORDINATE UTILITY SHUTDOWN WITH OWNER AND UTILITY COMPANY. COORDINATE POWER SHUTDOWN WITH OWNER.

1.4 SUBMITTALS

A. SUBMIT MANUFACTURERS PRODUCT DATA FOR:
1. WIRE AND CONDUIT.
2. MOTOR STARTERS / VARIABLE FREQUENCY DRIVES.
3. CABLES.
4. SWITCHES AND RECEPTACLES.
5. METER SOCKETS.

B. SUBMIT SHOP DRAWINGS FOR:
1. PANELBOARDS.
2. LIGHTING FIXTURES.
3. COMBINATION STARTERS / VARIABLE FREQUENCY DRIVES.

C. MANUFACTURERS DATA SHALL INDICATE SPECIFIC TYPES AND FEATURES OF EQUIPMENT TO BE FURNISHED.

D. SHOP DRAWINGS SHALL INDICATE DIMENSIONS, EQUIPMENT LAYOUT, AND FEATURES OF EQUIPMENT TO BE FURNISHED.

E. SUBMITTALS SHALL BE APPROVED PRIOR TO PURCHASING OF EQUIPMENT.

PART 2 - PRODUCT AND EQUIPMENT

2.1 GENERAL

A. WIRE:
1. TYPE THWN/THHN, COPPER FOR BRANCH CIRCUIT AND FEEDER WIRING.
2. METAL CLAD CABLE: TYPE MC, PER UL1569 USE IN DRY LOCATIONS WHERE CONCEALED AND WHERE NOT SUBJECT TO PHYSICAL DAMAGE.
3. SOLID CONDUCTOR FOR #10 AWG. AND SMALLER; STRANDED CONDUCTOR FOR #8 AWG. AND LARGER. CONTROL CONDUCTORS #12 AWG. AND #14 AWG. SHALL BE STRANDED.

B. CONDUIT:
1. EMT: PER UL797 AND C80.1.
2. FLEXIBLE METAL CONDUIT: PER UL1.
3. LIQUID TIGHT FLEXIBLE METAL CONDUIT: PER UL1660.
4. RIGID NON-METALLIC CONDUIT: PVC SCHEDULE 40 PER NEMA TC2, UL651.
5. RIGID STEEL: PER UL6, 1242, ANSI C80.01.

C. MANUAL MOTOR STARTERS: MANUAL CONTACTOR WITH THERMAL OVERLOAD ELEMENTS COORDINATED WITH MOTOR REQUIREMENTS. PILOT LIGHT, PAD LOCKABLE IN THE "OFF" POSITION.

D. PANELS: PER UL67 AND UL50, COPPER BUS WITH FULL SIZED NEUTRAL AND GROUND BUS. BOLT-ON TYPE CIRCUIT BREAKERS PER UL489. OVER CURRENT DEVICES SHALL BE TRIP FREE OF HANDLE AND PROVIDE OPENING OF ALL POLES SIMULTANEOUSLY. THE BARS TO CONVERT SINGLE POLE DEVICES TO MULTI-POLE DEVICES WILL NOT BE ACCEPTABLE.

E. SAFETY SWITCHES: 600 VAC NON-FUSABLE, NEMA TYPE KS-1, NEMA 1 ENCLOSURE FOR DRY LOCATIONS, NEMA 4 FOR WET LOCATIONS. NEMA 3R FOR OUTDOOR LOCATIONS. SIZE AND NUMBER OF POLES AS INDICATED, LOCKABLE IN THE "OFF" POSITION. RATED FOR SERVICE DISCONNECT WHERE REQUIRED. SQUARE 'D' CLASS 3110 OR APPROVED EQUAL BY GENERAL ELECTRIC, CUTLER HAMMER, AND SIEMENS.

F. GROUNDING: PROVIDE A COMPLETE GROUNDING SYSTEM PER NEC PROVIDE AN INSULATED GROUND CONDUCTOR IN EACH CONDUIT, RACEWAY, AND CABLE SIZED PER NEC TABLE 250.122 INCLUDING LIGHTING CIRCUITS. PROVIDE A MAXIMUM OF 10 OHMS RESISTANCE FOR SERVICE GROUND.

G. BOXES: PROVIDE JUNCTION, OUTLETS AND SWITCH BOXES OF STAMPED GALVANIZED STEEL FOR CONCEALED AREAS. PROVIDE CAST ALUMINUM TYPE FOR SURFACE MOUNTED DEVICES. PROVIDE CAST ALUMINUM, GASKETED, NEMA 4 FOR OUTDOOR OR WET LOCATIONS.

H. WIRING DEVICES:
1. SWITCHES (LIGHTING): 120-277 VAC. 20 AMP.
2. SWITCHES (MOTOR RATED): 120-277 VAC. 1 HP @ 120V.
3. ADAPTIVE OCCUPANT SENSOR SWITCH: 120-277 VAC 20 AMP.
4. ADAPTIVE OCCUPANT SENSORS: 24 VAC ¢ CONTROL UNIT: 277 VAC / 24 VAC
5. RECEPTACLE: 125 VAC, 20 AMP, GROUNDING TYPE.
6. RECEPTACLE (GFCI): 125 VAC, 20 AMP, GROUNDING TYPE, GROUND FAULT INTERRUPTER.
7. RECEPTACLE (IG): 125 VAC, 20 AMP GROUNDING TYPE, ISOLATED GROUND
8. RECEPTACLE (250 V): 250 VAC, 20 AMP GROUNDING TYPE SINGLE RECEPTACLE.
9. RECEPTACLE (480 V): 480 VAC, 20 AMP GROUNDING TYPE SINGLE TWIST LOCK RECEPTACLE.
10. DEVICE PLATES: IN FINISHED AREAS PROVIDE METAL DEVICE PLATES, TYPE TO MATCH DEVICES. IN UNFINISHED AREAS PROVIDE GALVANIZED STEEL DEVICE PLATES.
11. MULTI-OUTLET ASSEMBLY: PER UL5, FOR USE AS INDICATED, SYSTEM SHALL BE PRE-WIRED AND PRE-CUT TO LENGTH AS REQUIRED. RECEPTACLES AND PLATES HALL BE SPECIFIED HEREIN. WIREMOLD TYPE 3000 OR EQUAL FINISH TO MATCH INTERIOR SURFACES.
12. COMMUNICATION TERMINATIONS: MODULAR 110 TYPE FOR DATA CONNECTIONS. TYPE 66 FOR TELEPHONE.
13. COMMUNICATION CABLING: UNSHIELDED TWISTED PAIR #24 AWG., PVC JACKETED CATEGORY "6" PERFORMANCE LEVEL CONNECTIONS.

2.2 LIGHTING

PROVIDE A COMPLETE LUMINAIRE INSTALLATION INCLUDING, LAMPS, BALLASTS, ENCLOSURES, ETC. AS REQUIRED. COORDINATE MOUNTING HEIGHTS AND INSTALLATION METHODS WITH FIELD CONDITIONS AND EQUIPMENT LAYOUT. REFER TO LIGHTING FIXTURE SCHEDULE FOR TYPES.

A. NEW LIGHTING FIXTURES: PROVIDE NEW LIGHTING FIXTURES AS INDICATED IN LIGHTING FIXTURE SCHEDULE
1. METAL PARTS SHALL BE FREE FROM BURRS AND SHARP CORNERS. DOOR FRAMES SHALL BE FREE FROM LIGHT LEAKAGE.
2. PROVIDE LAMPS.

B. EXIT SIGNS: PROVIDE SELF POWERED EXIT SIGNS AS INDICATED, INTEGRAL AUTO-TRICKLE CHARGER IN SELF CONTAINED POWER PACK 90 MINUTE SUPPLY CAPABLE OF SUPPORTING REMOTE LAMPS HEADS.

PART 3 - EXECUTION

3.1 GENERAL.

A. INSTALL ALL EQUIPMENT PER MANUFACTURERS RECOMMENDATIONS.

B. KEEP PREMISES FREE FROM RUBBISH. REMOVE ALL RUBBISH FROM SITE.

C. ALL WIRING SHALL BE RUN IN CONDUIT, SURFACE RACEWAY, OR AS MC CABLE FOR USES PERMITTED AS SPECIFIED HEREIN. #12 AWG

D. WHERE CONDUIT RUNS, FROM GENERAL POWER AND LIGHTING BRANCH CIRCUITS, EXCEED A DEVELOPED LENGTH OF 60 FEET (120V) OR 120 FEET (277V) TO CENTER OF LOAD, USE #10 AWG. WIRE TO THAT POINT, VOLTAGE DROP SHALL NOT EXCEED NEC ALLOWABLE VALUES FOR BRANCH CIRCUITS AND FEEDERS.

E. WHERE COMMON NEUTRAL CONDUCTORS ARE USED FOR 480/277 AND 208/120 VOLT MULTI-WIRE BRACH CIRCUIT WIRING, NEUTRAL CONDUCTOR SHALL HAVE AMPACITY OF AL LEAST 1.73 TIMES PHASE CONDUCTOR.

F. HOME RUNS MAY BE COMBINED INTO A SINGLE CONDUIT, HOWEVER, MAXIMUM NUMBER OF CONDUCTORS SHALL MEET CONDUIT FILL AND DERATING REQUIREMENTS OF NEC ARTICLE 310. SEPARATE NEUTRALS SHALL BE PULLED AND CLASSIFIED AS CURRENT CARRYING CONDUCTORS. DIVERSITY FACTOR FOR EACH BRANCH CIRCUIT IS 100%.

G. COORDINATE ALL EQUIPMENT AND CONDUIT ROUTING WITH EXISTING CONDITIONS. ALL WIRING IN FINISHED SPACES SHALL BE CONCEALED. PROVIDE THREE (3) 1 INCH SPARE CONDUITS FROM PANEL TO ABOVE CEILING FOR RECESSED MOUNTED PANELS.

H. COORDINATE LIGHTING FIXTURE LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS. SUPPORT FIXTURES INDEPENDENTLY FROM CEILING GRID. MAINTAIN MINIMUM 6? CLEARANCE BETWEEN CEILING FIXTURES AND WALLS.

I. PROVIDE MULTI-GANG BOXES AND DEVICES PLATES FOR SWITCHES OR CONTROLS LOCATED IN CLOSE PROXIMITY

J. PROVIDE HEAVY DUTY POWER CORD AND MATCHING PLUG FOR EQUIPMENT REQUIRING RECEPTACLE TYPE POWER CONNECTIONS.

K. ALL DEVICES SHALL BE INSTALLED LEVEL AND PLUMB. SIZE ALL JUNCTION BOXES AND ELECTRICAL ENCLOSURES AS REQUIRED BY THE NEC.

L. TELEPHONE AND SWITCHING EQUIPMENT SHALL BE FURNISHED BY OTHERS.

3.2 WIRING METHODS

A. OUTDOORS: USE THE FOLLOWING WIRING METHODS:
1. EXPOSED: RIGID METAL CONDUIT.
2. CONCEALED: RIGID METAL CONDUIT.
3. UNDERGROUND: RIGID NON-METALLIC CONDUIT
4. CONCRETE ENCASED: RIGID NON-METALLIC CONDUIT.
5. CONNECTION TO VIBRATING EQUIPMENT (INCLUDING TRANSFORMERS AND HYDRAULIC, PNEUMATIC, OR ELECTRIC SOLENOID OR MOTOR-DRIVEN EQUIPMENT): LIQUID-TIGHT FLEXIBLE METAL CONDUIT.
6. BOXES AND ENCLOSURES: NEMA TYPE 3R OR TYPE 4 EXCEPT IN HAZARDOUS LOCATIONS USE NEMA TYPE 7.

B. INDOORS: USE THE FOLLOWING WIRING METHODS:
1. CONNECTION TO VIBRATING EQUIPMENT (INCLUDING TRANSFORMERS AND HYDRAULIC, PNEUMATIC, OR ELECTRIC SOLENOID OR MOTOR-DRIVEN EQUIPMENT): FLEXIBLE METAL CONDUIT, EXCEPT IN WET / DAMP LOCATIONS USE LIQUID-TIGHT FLEXIBLE METAL CONDUIT. MAXIMUM OF 6 FEET OF FLEXIBLE CONDUIT FOR LIGHTING FIXTURES.
2. DAMP OR WET LOCATIONS: RIGID METAL CONDUIT.
3. EXPOSED: ELECTRICAL METALLIC TUBING OR RIGID METAL CONDUIT.
4. CONCEALED: ABOVE CEILINGS - ELECTRICAL METALLIC TUBING, IN CMU WALLS - ELECTRICAL METALLIC TUBING; IN STUD WALLS - ELECTRICAL METALLIC TUBING OR MC-TYPE FLEXIBLE METALLIC CONDUIT.

C. CORROSIVE: USE RIGID ALUMINUM CONDUIT.

D. MINIMUM CONDUIT SIZE SHALL BE 3/4 INCH FOR POWER; 1/2 INCH FOR CONTROLS.

3.3 PAINTING AND FINISHES

A. DAMAGE AND TOUCH-UP: REPAIR ALL MARRED OR DAMAGED FACTORY PAINTED FINISHES WITH MATERIALS AND PROCEDURES TO MATCH ORIGINAL FACTORY FINISH.

3.4 IDENTIFICATION

A. PROVIDE PANEL AND CIRCUIT DESIGNATION LABELS ON ALL RECEPTACLE COVERS PLATES. FOR OUTLETS OTHER THAN 120V, PROVIDE VOLTAGE, PHASE AND AMPERE LABELING.

B. IDENTIFY ALL EQUIPMENT PROVIDED UNDER THIS CONTRACT WITH ENGRAVED, PHENOLIC, LAMINATED NAMEPLATES.

C. PROVIDE TYPEWRITTEN DIRECTIONS FOR ALL PANELBOARDS.ar
NDUCTOLLOWING 'O
D. IDENTIFY CONDUCTORS WITH THE FOLLOWING COLOR CODE.

208/120V PHASE	
BLACK	A
RED	B
BLUE	C
WHITE	NEUTRAL
GREEN	GROUND

3.5 CERTIFICATION

A. GENERAL: PROVIDE CERTIFICATION THAT THE INSTALLATION MEETS NFPA 70, MANUFACTURER'S RECOMMENDATIONS, AND OTHER AUTHORITIES AS INDICATED.

3.6 CUTTING AND PATCHING

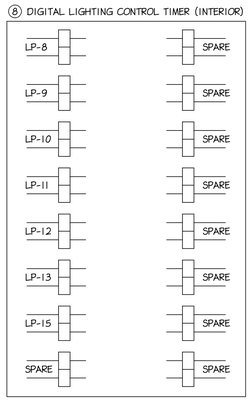
A. CUTTING PROVIDE CUTTING, CHANNELING, CHASING AND DRILLING OF FLOORS, WALLS, PARTITIONS, CEILINGS AND OTHER SURFACES NECESSARY FOR INSTALLATION OF ELECTRICAL WORK. ALL CUTTING SHALL BE PERFORMED BY SKILLED MECHANICS OF THE TRADES INVOLVED.

B. PATCHING: REPAIR CUT SURFACES OR OPENINGS RESULTING FROM DEMOLITION TO MATCH ADJACENT SURFACES.

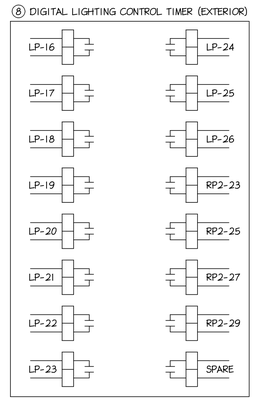
3.7 CLOSING OF OPENINGS

A. SEALING: UNUSED SLOTS, SLEEVES AND OTHER PENETRATIONS IN FLOOR, WALLS OR OTHER GENERAL CONSTRUCTION SHALL BE CLOSED AND SEALED WITH AN APPROVED MATERIAL.
1. CONDUIT: THE ANNULUS BETWEEN EXPOSED CONDUIT AND WALLS OR FLOORS IN FINISHED SPACES SHALL BE FILLED SEALED, AN PAINTED TO MATCH ADJACENT SURFACE.

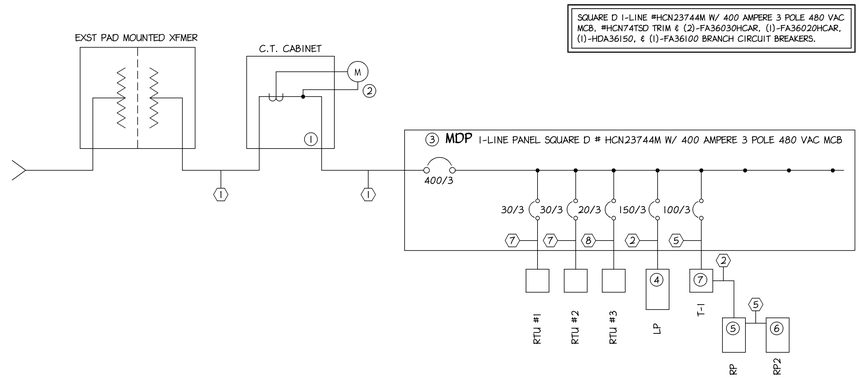
8 DIGITAL LIGHTING CONTROL TIMER (INTERIOR)



8 DIGITAL LIGHTING CONTROL TIMER (EXTERIOR)



2 E-7 ELECTRICAL DIGITAL TIMER
Scale: N.T.S.



1 E-7 ELECTRICAL SINGLE LINE DIAGRAM
Scale: N.T.S.

3 E-7 ELECTRICAL SPECIFICATIONS
Scale: N.T.S.

FINAL 02/18/2008
ISSUED FOR PERMIT

Betzwood AssociatesPC
Architects & Engineers
Robin J. Kohn, AIA Regis W. Kubit, PE

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL REGIS WILLIAM KUBIT ENGINEER No. 6968-E

523 Kimberton Road, Suite 11B Phoenixville, PA 19460
tel (610) 917-8831 fax (610) 917-8836
email mail@betzwood.com http://www.betzwood.com

Regis W. Kubit, P.E.
Commonwealth of Pennsylvania
License No. PE-6968-E

Contact Person:
Edward M. Happ
(610) 917-8831

PROJECT NO.	DRAWN BY	CHK'D BY
B2810	EMH	EMH

NO.	DATE	BY	ISSUE
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