



## Historic Review Commission of Pittsburgh

200 Ross Street, First Floor Hearing Room  
August 1, 2012

### AGENDA

(Vacant), *Chairman*  
Ernie Hogan, *Acting Chairman*  
Noor Ismail, *Director of Planning*  
John Jennings, *Secretary, Acting Chief BBI*  
Linda McClellan  
Joe Serrao  
Vacant

➤ **12:30 PM CALL TO ORDER**

➤ **12:30 PM INTERNAL BUSINESS**

Old Business

- None

New Business

- Approval of the Minutes from the June and July 2012 hearings
- Certificates of Appropriateness Report – July
- Applications for a Certificate of Economic Hardship - None

Upcoming Demolitions, no action at this time

- None

➤ **1:00 PM HEARING & ACTION**

- |  |  |
|--|--|
| <p><b>1. Allegheny West Historic District</b><br/>851 Beech Avenue Catherine Serventi and Eugene Wilson, owner and applicant<br/><b>Porch constriction</b></p>                                 | <p><b>5. East Carson Street Historic District</b><br/>1611 East Carson Street<br/>17<sup>th</sup> Street Partners, owners<br/>AT&amp;T Mobility, applicant<br/><b>Cell tower installation</b></p>                        |
| <p><b>2. Deutchtown Historic District</b><br/>600-604 Cedar Avenue<br/>Davis Properties Holdings Co, LLC, owners<br/>Anne Chen, Applicant<br/><b>Refenestration</b></p>                        | <p><b>6. East Carson Street Historic District</b><br/>2128 East Carson Street<br/>John McCloskey, owner and applicant<br/><b>Renovations to the rear of the building</b></p>   |
| <p><b>3. East Carson Street Historic District</b><br/>629 East Carson Street<br/>Dirks Southside Land, LLC, owner<br/>Steve Todorovich, applicant<br/><b>Installation of rear addition</b></p> | <p><b>7. Historic Arsenal Middle School</b><br/>3900 South Butler Street<br/>Pittsburgh Public Schools, owner<br/>Quad 3 Group, applicant<br/><b>Installation of a new playground</b></p>                                |
| <p><b>4. East Carson Street Historic District</b><br/>1303 East Carson Street<br/>JLB Diversified Investments, owner and applicant<br/><b>Renovation of facade</b></p>                         | <p><del><b>8. Historic Iron City Brewery</b></del><br/><del>3340 Liberty Avenue</del><br/><del>Collier Development, owner</del><br/><del>Tim Frew, applicant</del><br/><del><b>Roofing, cleaning, lighting</b></del></p> |

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**9. Manchester Historic District**  
1301 Columbus Avenue  
Manchester Housing and Development, owner  
and applicant  
**Addition of stairs**

**10. Manchester Historic District**  
1401 Columbus Avenue  
Manchester Housing Development, owner and  
applicant  
**Addition of stairs**

**11. Manchester Historic District**  
1404-1414 Juniata Street  
Manchester Housing Development, owner and  
applicant  
**Change in fenestration**

➤ **DEMOLITIONS**

**1. Manchester Historic District**  
1003 Sheffield Street  
Paul Carlson, owner  
Walter Puwalowski, applicant  
**Demolition of garage**

➤ **DIRECTOR'S REPORT**

➤ **ADJOURNMENT**

**12. Market Square Historic District**  
TBA Forbes Avenue  
Millcraft Industries, owner  
Aquitectonica, applicant  
**Loading dock Screening**

**13. Mexican War Streets Historic District**  
500 W. North Avenue  
Howard Muranko, owner and applicant  
**Window and door replacement**

**14. Penn-Liberty Historic District**  
920 Fort Duquesne Boulevard  
920 Fort Duquesne Associates, owner  
Designstream LLC, applicant  
**Tabled: Façade renovations**

*The John Robin Civic Building, located at 200 Ross St. downtown, is wheelchair accessible. This meeting is open to all members of the public. INTERPRETERS FOR THE HEARING IMPAIRED WILL BE PROVIDED WITH FOUR DAYS NOTIFICATION BY CONTACTING RICHARD MERITZER AT 412-255-2102.*

**Please contact Sarah Quinn with questions and comments: 412-255-2243**  
[sarah.quinn@pittsburghpa.us](mailto:sarah.quinn@pittsburghpa.us)



**Division of Development Administration and Review**  
 City of Pittsburgh, Department of City Planning  
 200 Ross Street, Third Floor  
 Pittsburgh, Pennsylvania 15219

**HISTORIC REVIEW COMMISSION OF PITTSBURGH**  
**Application for a Certificate of Appropriateness**

DEADLINE:

Completed applications must be received at least 13 working days prior to the HRC hearing, when a hearing is required

FEE SCHEDULE:

See attached. Please make check payable to: Treasurer, City of Pittsburgh.

**STAFF USE ONLY:**

DATE RECEIVED: \_\_\_\_\_

LOT AND BLOCK NUMBER: \_\_\_\_\_

WARD: \_\_\_\_\_

FEE PAID:

**ADDRESS OF PROPERTY:**

851 Beech Ave.  
Pittsburgh, PA 15233

**DISTRICT:**

\_\_\_\_\_

**OWNER:** Eugene Wilson  
 NAME: Catherine Serventi

**APPLICANT:**  
 NAME: Catherine Serventi / Eugene Wilson

ADDRESS: 851 Beech Ave  
Pittsburgh PA 15233

ADDRESS: 851 Beech Ave.  
Pittsburgh PA 15233

PHONE: 412 418 2027

PHONE: 412 418 2027

EMAIL: darthduckie@gmail.com

EMAIL: darthduckie@gmail.com

**REQUIRED ATTACHMENTS:**

- Drawings     Photographs     Renderings     Site Plan     Other

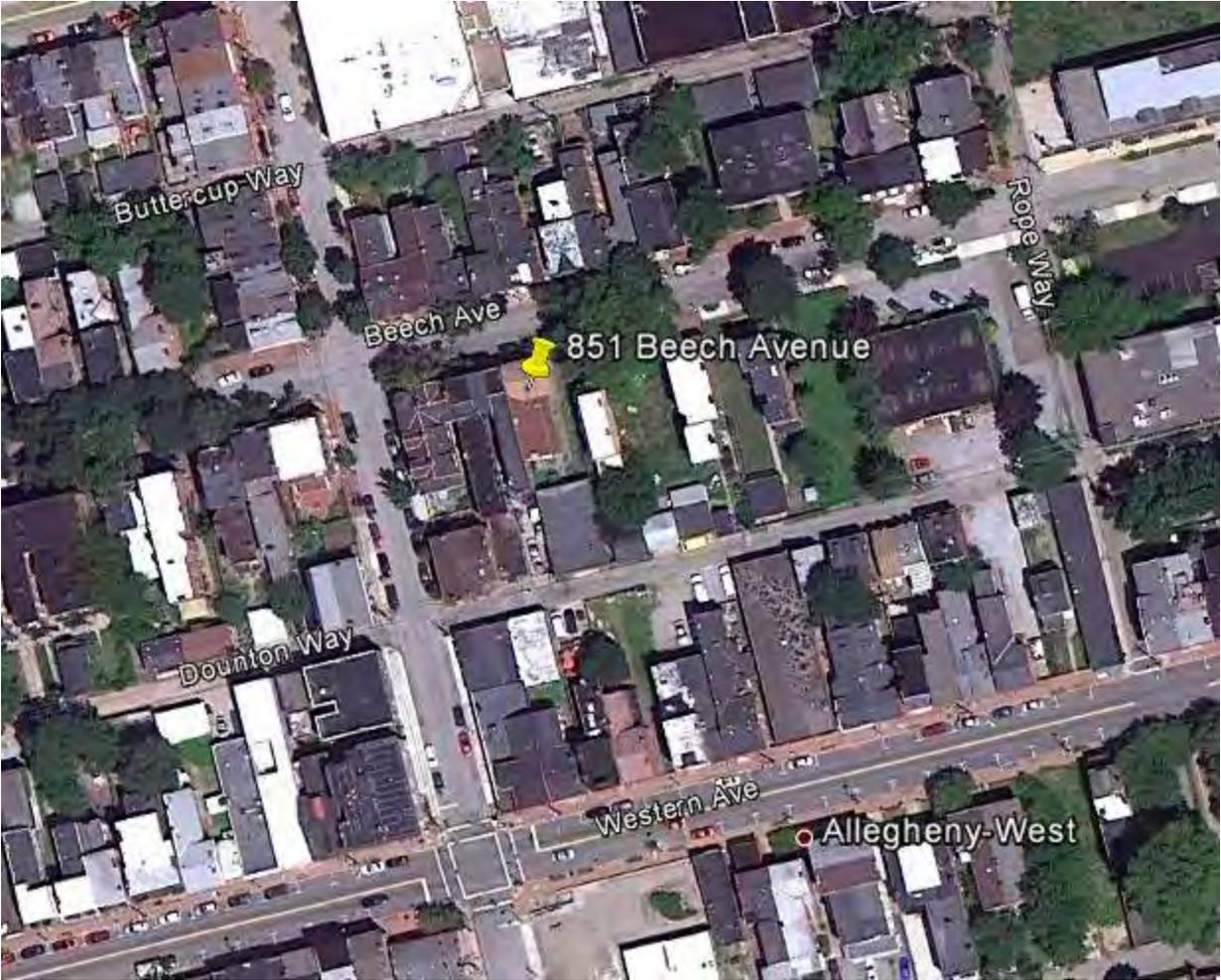
**DETAILED DESCRIPTION OF PROPOSED PROJECT:**

demolish and rebuild side porch

**SIGNATURES:**

OWNER: Catherine Serventi DATE: 7/13

APPLICANT: Eugene Wilson DATE: 7/13











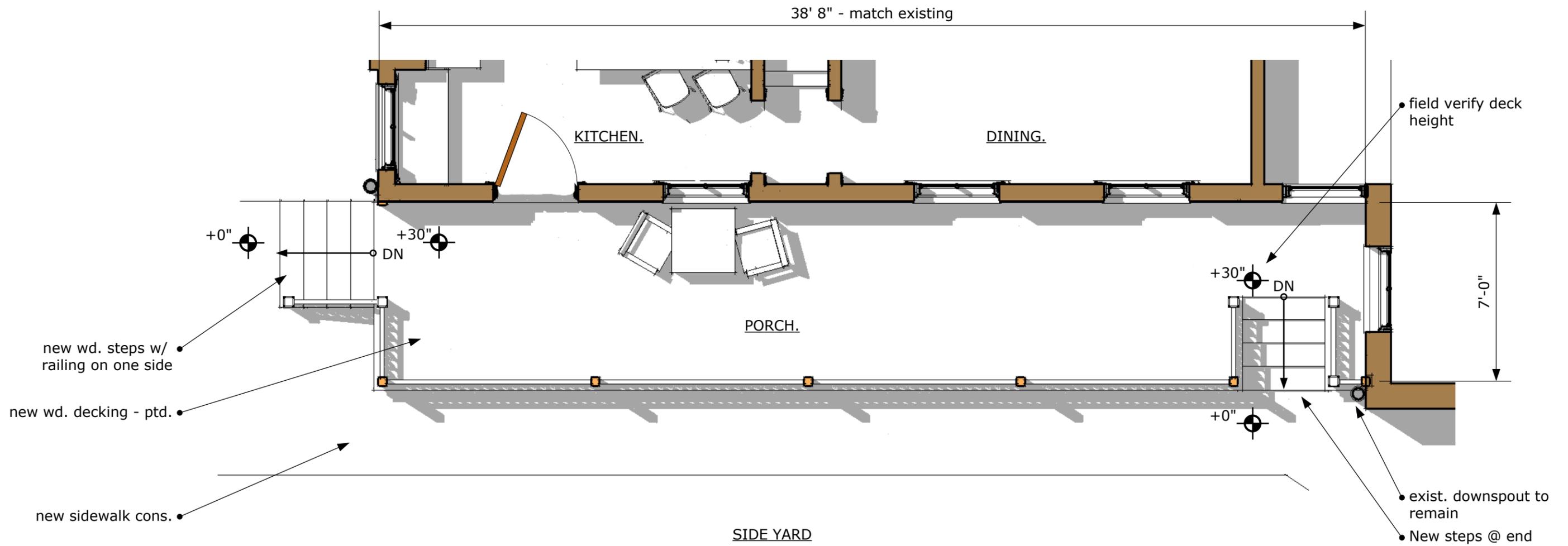




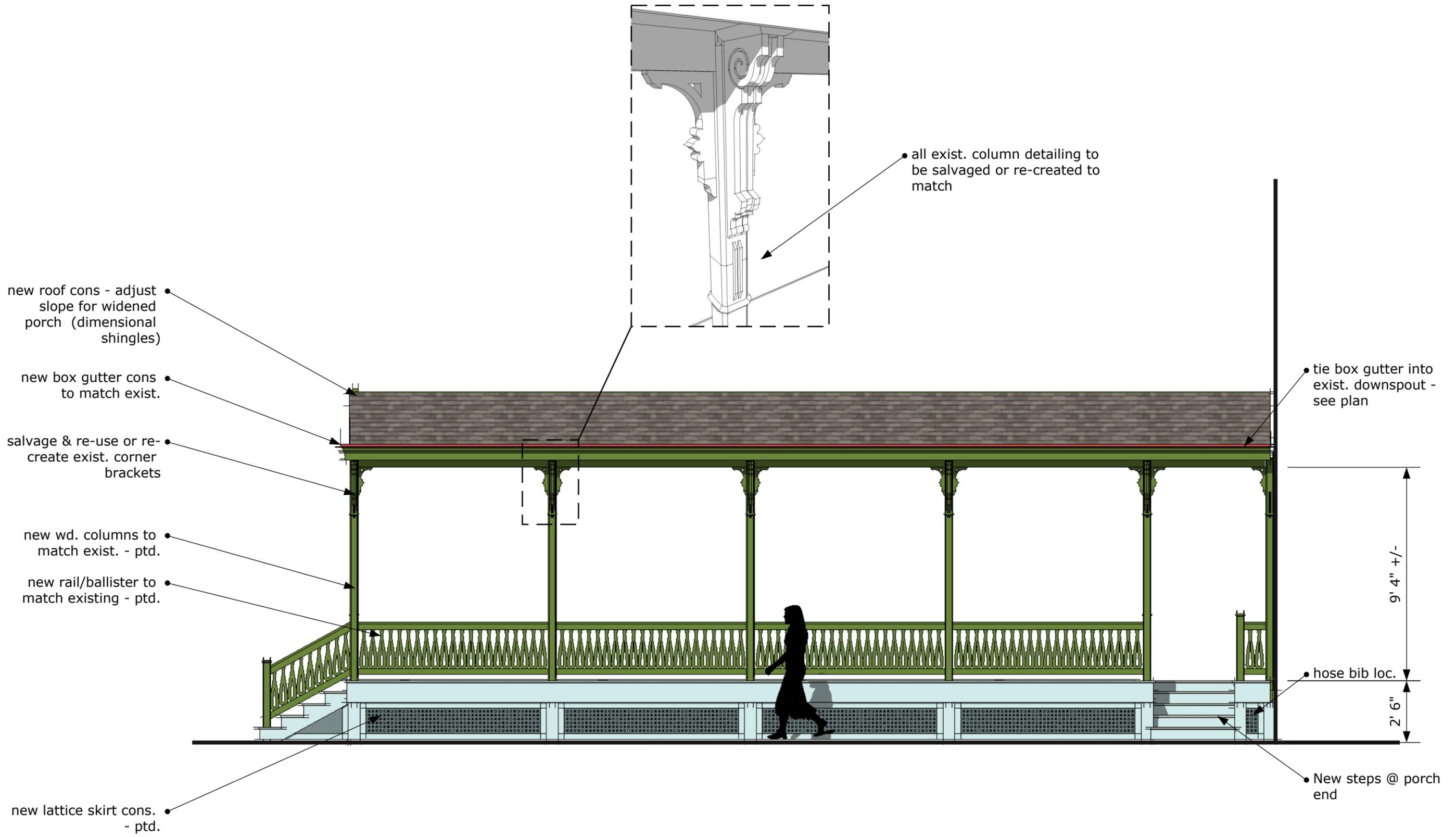
**REAR PORCH RENOVATIONS - 851 BEECH AVENUE - SERVENTI / WILSON RESIDENCE**

Historic Review Presentation #1





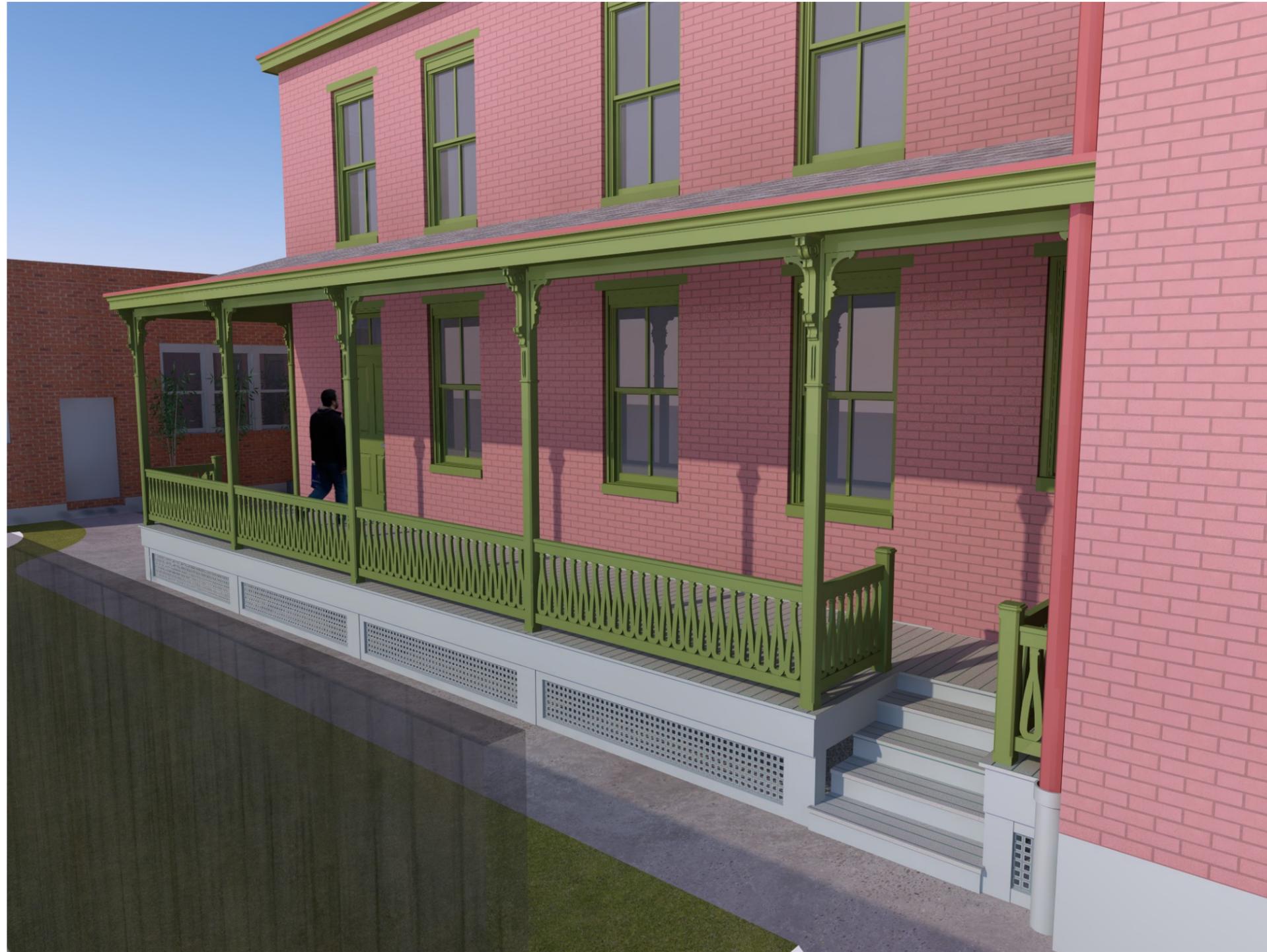
1 Deck Plan - Widened Configuration w/ new stairs  
 Scale: 1/4" : 1'-0"



1 Deck Elevation  
Scale: 1/4" : 1'-0"



1 Perspective - 1  
Scale: N.T.S.



2 Perspective - 2  
Scale: N.T.S.



1 Full Side Elevation  
Scale: N.T.S.



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 200 Ross Street, Third Floor  
 Pittsburgh, Pennsylvania 15219

**HISTORIC REVIEW COMMISSION OF PITTSBURGH**  
**Application for a Certificate of Appropriateness**

DEADLINE:

Completed applications must be received 15 days prior to the HRC hearing, when a hearing is required

STAFF USE ONLY:

DATE RECEIVED: 7/13/12

LOT AND BLOCK NUMBER: 23-5-111

WARD: 23rd

FEE PAID: yes

DISTRICT:

Deutschtown

FEE SCHEDULE:

See attached. Please make check payable to: Treasurer, City of Pittsburgh.

**ADDRESS OF PROPERTY:**

600-604 Cedar Ave.  
Pittsburgh, PA 15212

**OWNER:**

Morgan Kronk representing

NAME: Davis Properties Holding Co LLC

ADDRESS: 400 Island Ave

McKees Rocks, PA 15136

PHONE: 412-787-0720

EMAIL: mpkcci@msn.com

**APPLICANT:**

NAME: Anne Chen, AIA, LEED AP

ADDRESS: EDGE studio

5411 Penn Ave.

Pittsburgh, PA 15206

PHONE: 412-345-5005

EMAIL: anne@edge-studio.com

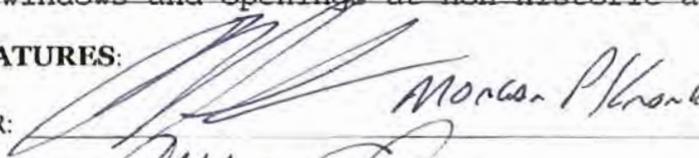
**REQUIRED ATTACHMENTS:**

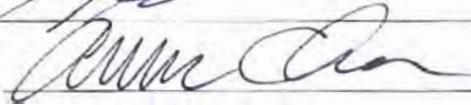
Drawings     Photographs     Renderings     Site Plan     Other

**DETAILED DESCRIPTION OF PROPOSED PROJECT:**

Replacement in kind of wood windows at 3 story historic structure.  
Replacement of non-historic canopy and re-cladding and provision of  
new windows and openings at non-historic addition.

**SIGNATURES:**

OWNER:  DATE: 7/12/2012

APPLICANT:  DATE: 7/12/2012

600-604 Cedar Avenue  
Scope of Exterior Work  
13 July 2012

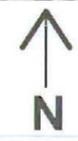
Proposed renovations to the exterior facilitate the conversion of the first floor of the building, currently used as a funeral home, to 8 residential market rate units. The building is composed of a 3 story late 1800s structure with one 2 story addition and a single story addition. Exterior improvements are proposed as follows:

Three story structure:

1. Replace wood double hung windows with new windows of in-kind materials.

Two story and single story structure

2. Enlarge existing window openings, and provide new windows and doors. New door will facilitate accessible entry. Windows will be aluminum framed. Remove existing overhead door on Avery St. and provide new overhead door at parking lot side of building.
3. Provide new cement fiberboard panel finish over existing brick at the single story portion of the building.
4. Remove existing canopy and provide new cement fiberboard panel canopies at existing and new entrances. Provide decorative steel gate at unit entrance at parking lot side of building.
5. Provide canopy lighting and façade lighting.
6. Provide clearstory light monitor at roof of single story structure
7. Provide 8 condensing units at roof of single story structure

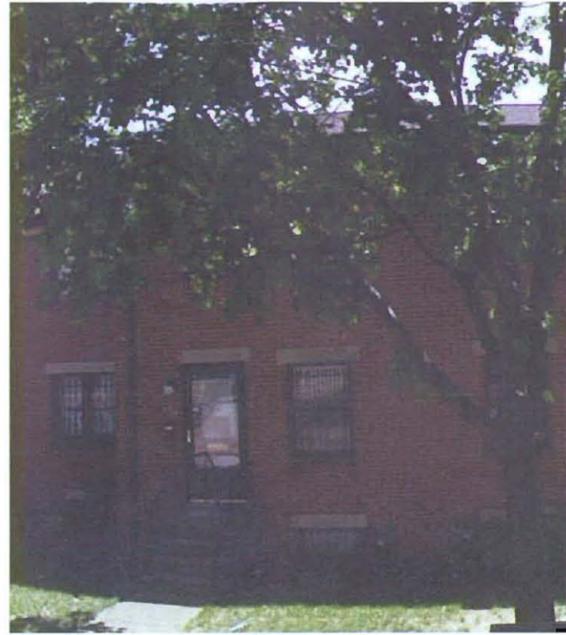


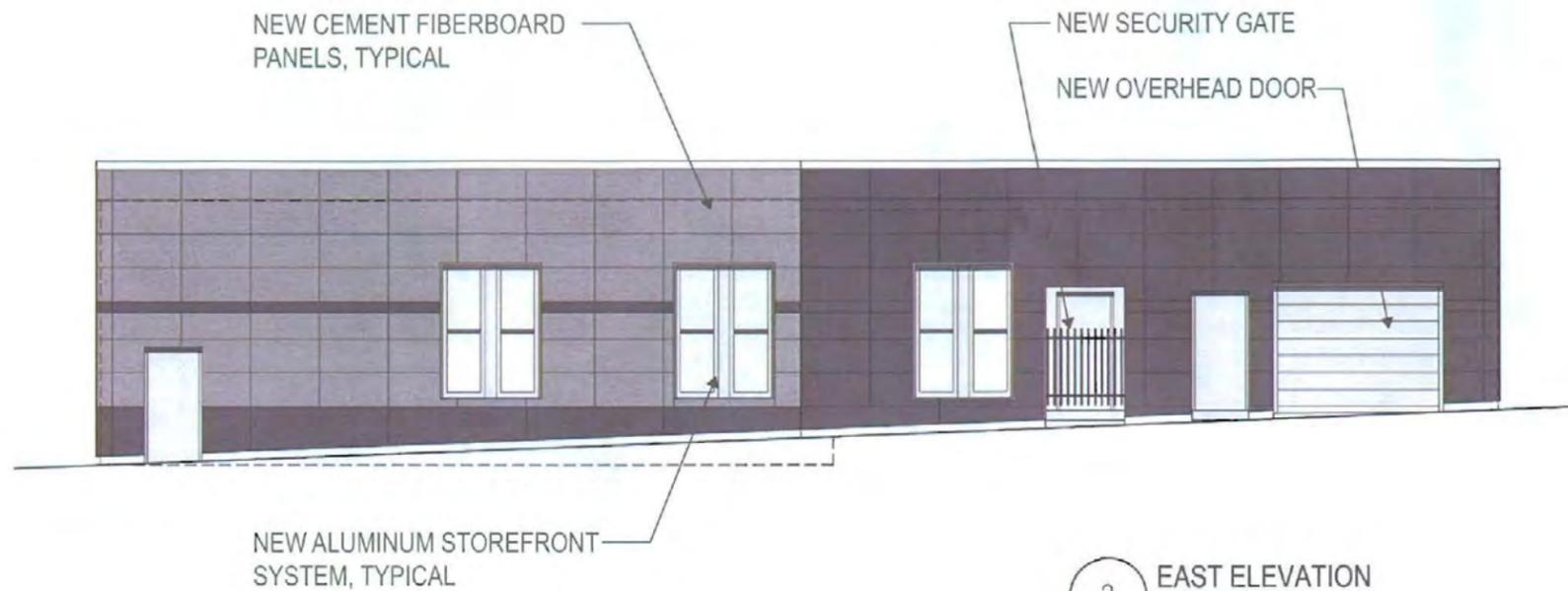
**EDGEstudio**

Architecture • Experience • Identity • Design

LOCATION MAP  
 BUILDING ELEVATION PHOTOS  
 13 JULY 2012

5411 Penn Avenue Pittsburgh, PA 15206 tel 412-345-5005 fax 412-345-5006 www.edge-studio.com

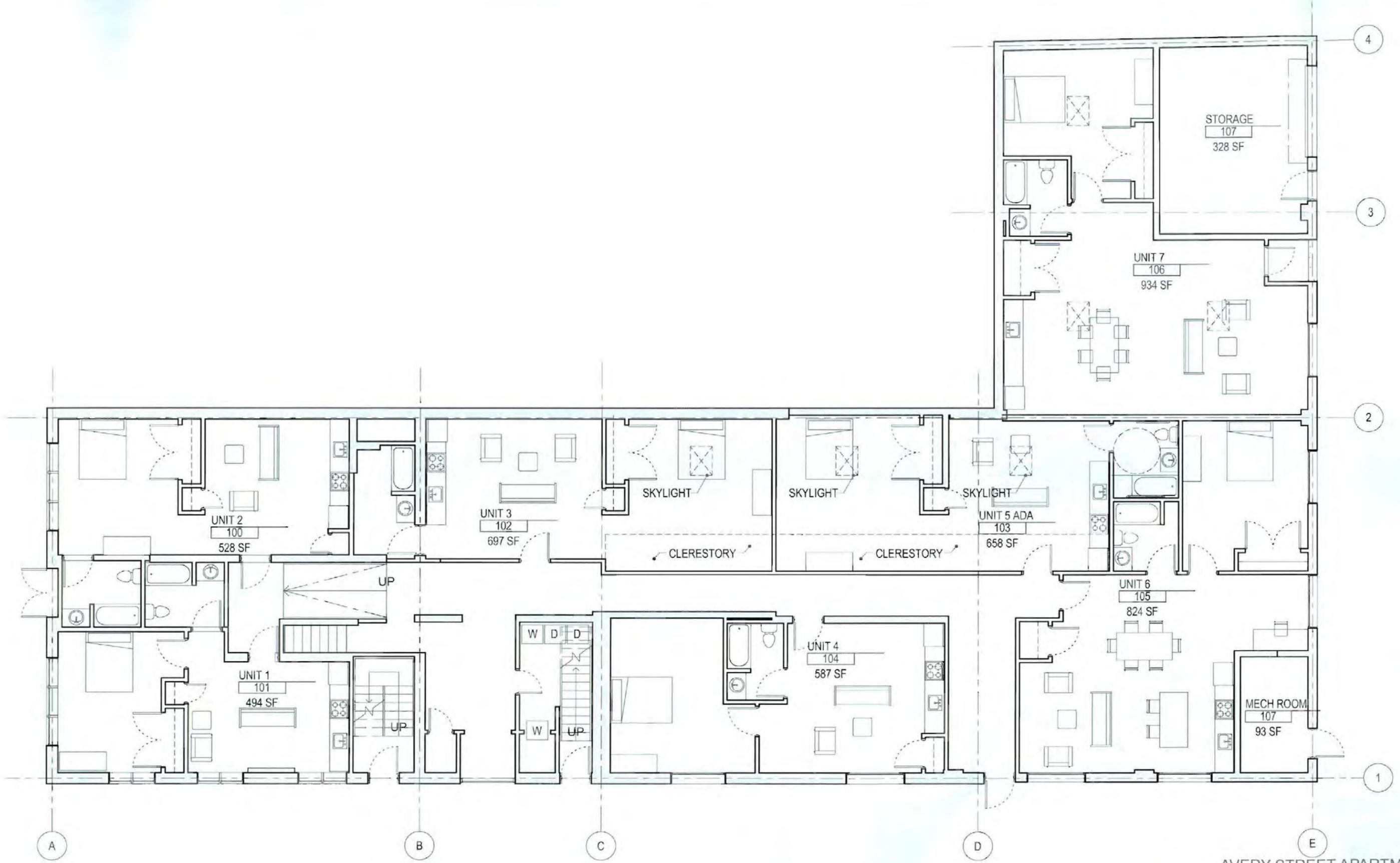




2 EAST ELEVATION

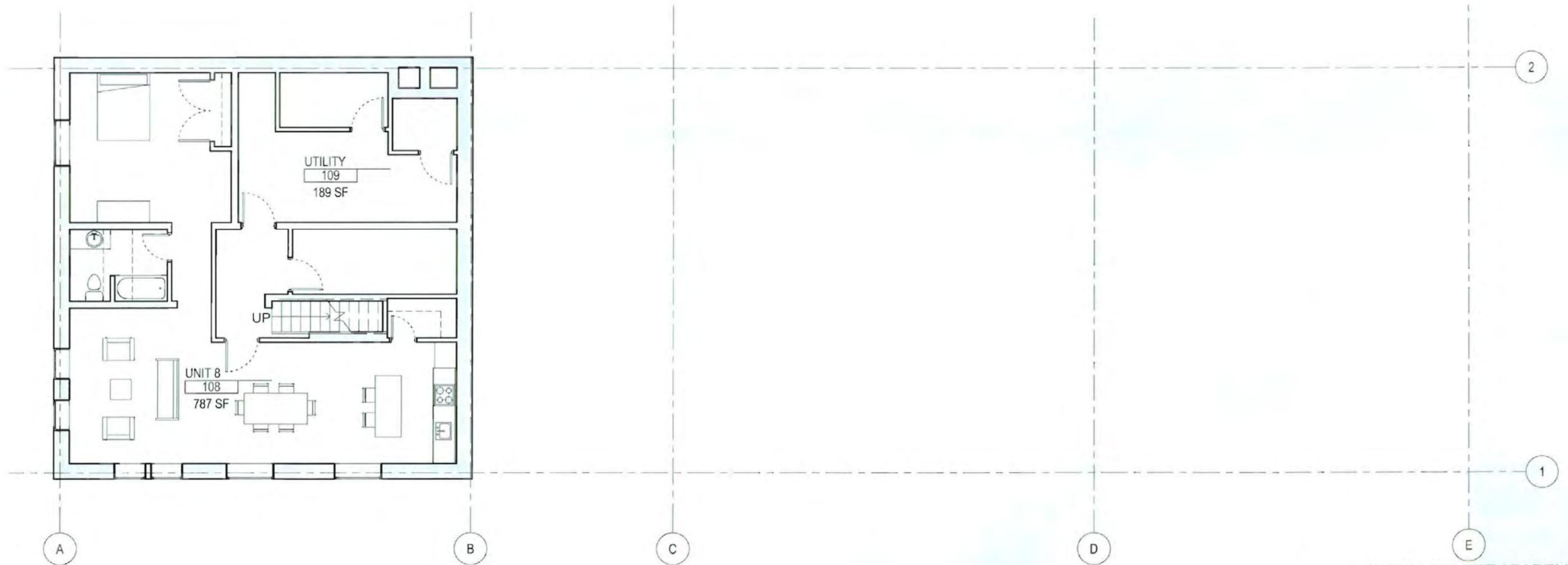


1 SOUTH ELEVATION



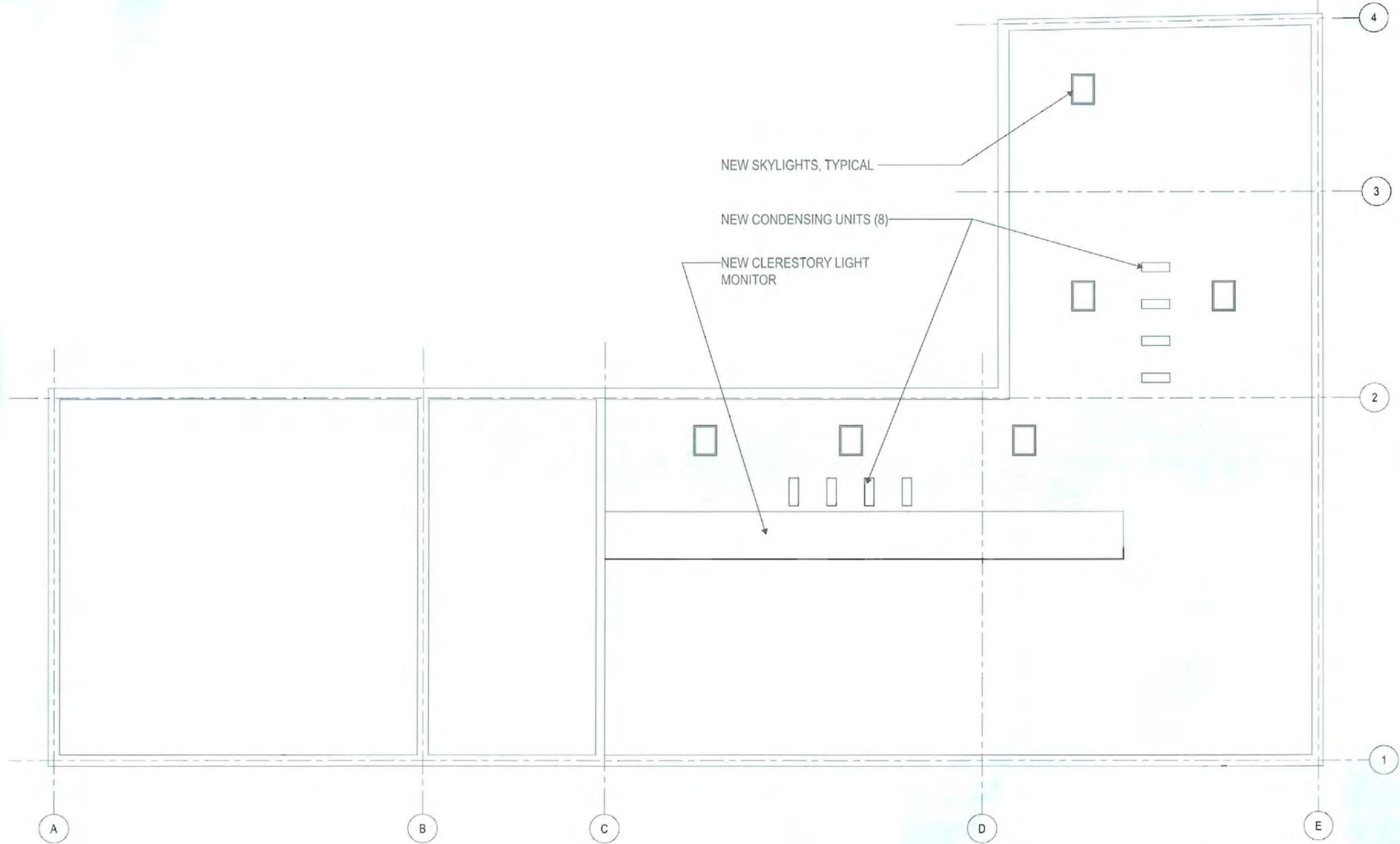
AVERY STREET APARTMENTS  
 FIRST FLOOR PLAN  
 SCALE: 1"=10'-0"  
 13 JULY 2012





AVERY STREET APARTMENTS  
 SECOND FLOOR PLAN  
 SCALE: 1"=10'-0"  
 13 JULY 2012







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**FEE SCHEDULE:**

See attached. Please make check payable to:  
 Treasurer, City of Pittsburgh.

**ADDRESS OF PROPERTY:**

629 East Carson St  
 Pgh. PA 15203

**OWNER:**

NAME: Dirks Southside Land  
 ADDRESS: 5727 Kentucky Ave  
 Pgh. PA 15232  
 PHONE: 412-759-8888  
 EMAIL: 7598888@gmail.com

**REQUIRED ATTACHMENTS:**

- Drawings     Photographs     Renderings     Site Plan     Other

**DETAILED DESCRIPTION OF PROPOSED PROJECT:**

Addition to rear of building.

**STAFF USE ONLY:**

DATE RECEIVED: 7/9/12  
 LOT AND BLOCK NUMBER: 3-F-36  
 WARD: 17th  
 FEE PAID: 350

**DISTRICT:**

East Carson St

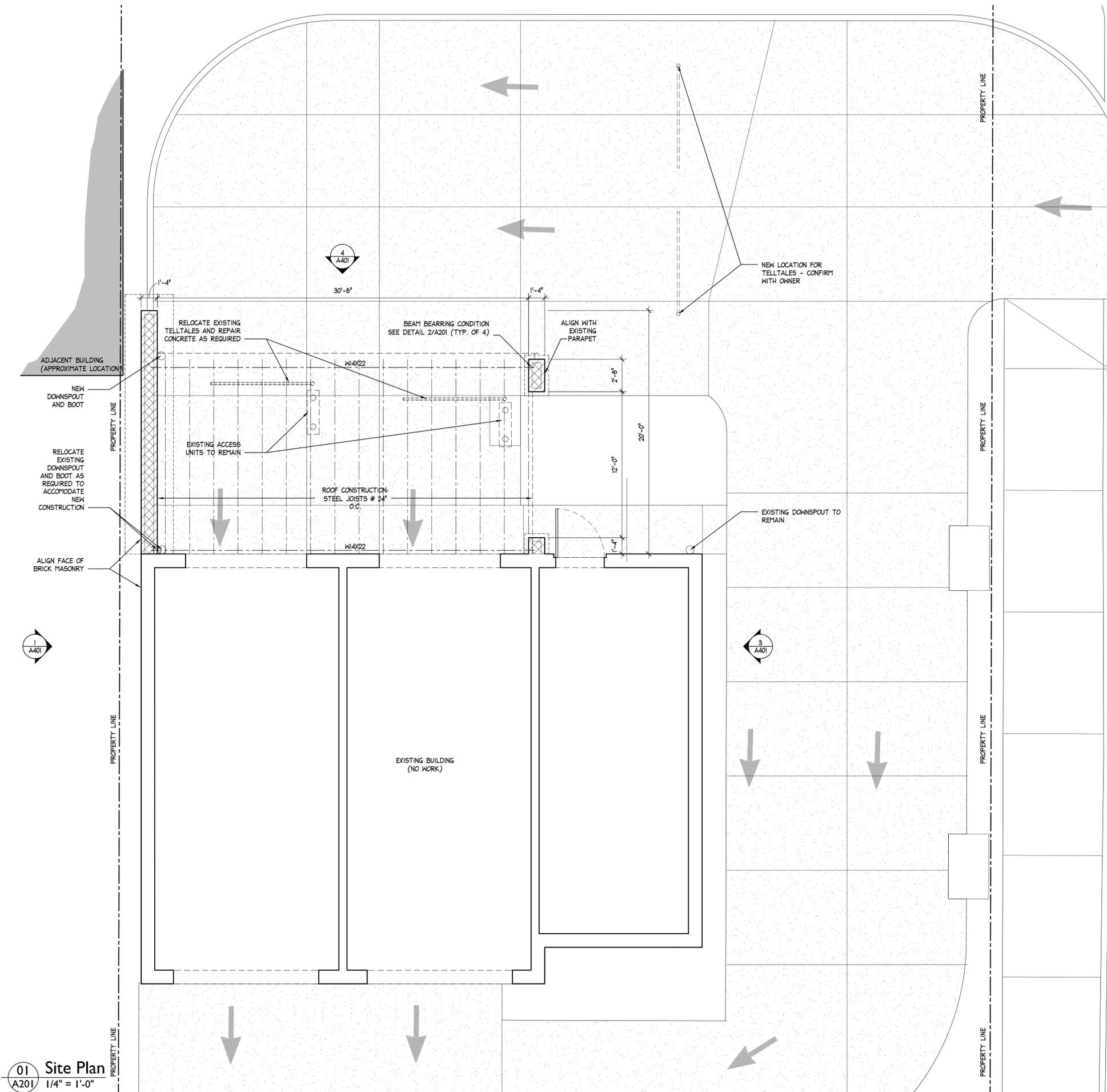
**APPLICANT:**

NAME: Steve Todorovich  
 ADDRESS: Same  
 PHONE: Same  
 EMAIL: Same

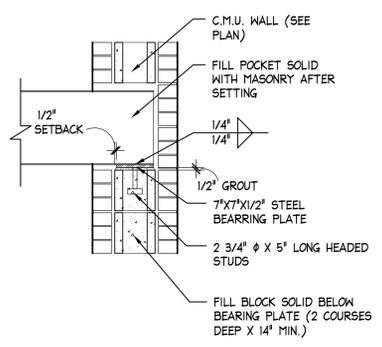
**SIGNATURES:**

OWNER: [Signature] DATE: 6-27-12  
 APPLICANT: Steve Todorovich DATE: 6-27-12

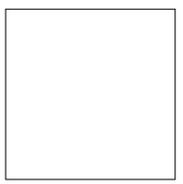




01 Site Plan  
A201 1/4" = 1'-0"



2 Beam Bearing Detail  
A201 3/4" = 1'-0"



PROJECT NO. 01215.00  
May 2012  
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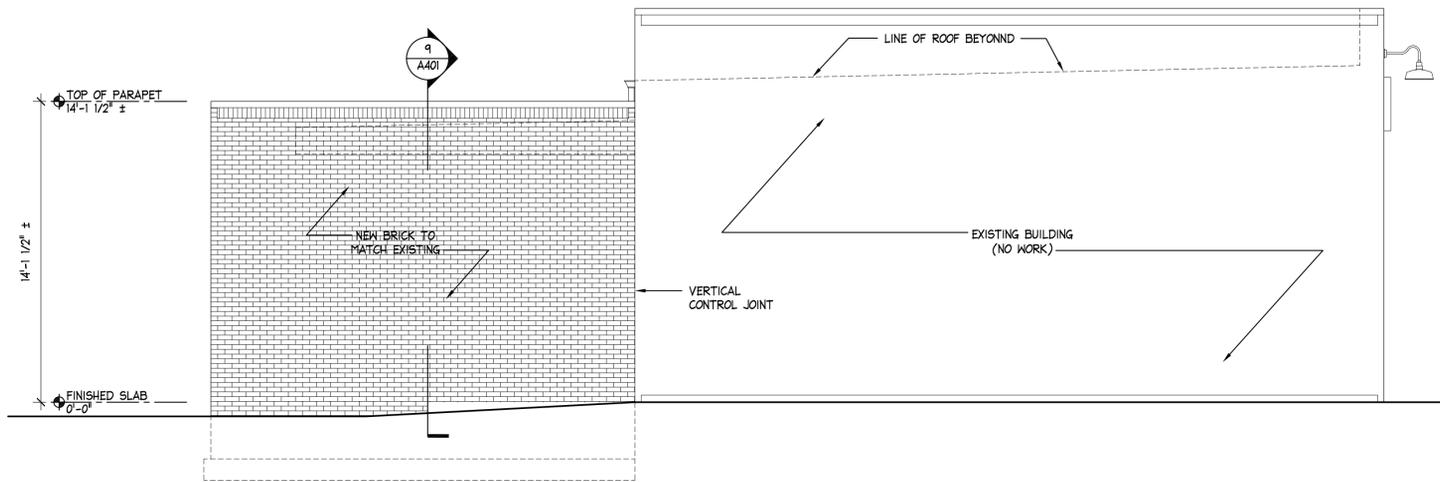
Additions and Alterations to:  
**Laser Carwash**  
629 E Carson Street  
Pittsburgh, PA 15203

GERALD LEE MOROSCO ARCHITECTS, P.C.  
1016 EAST CARSON STREET PITTSBURGH, PA 15203-1797  
T: (412) 431-1447 F: (412) 431-2667 WWW.GLM-ARCHITECTS.COM



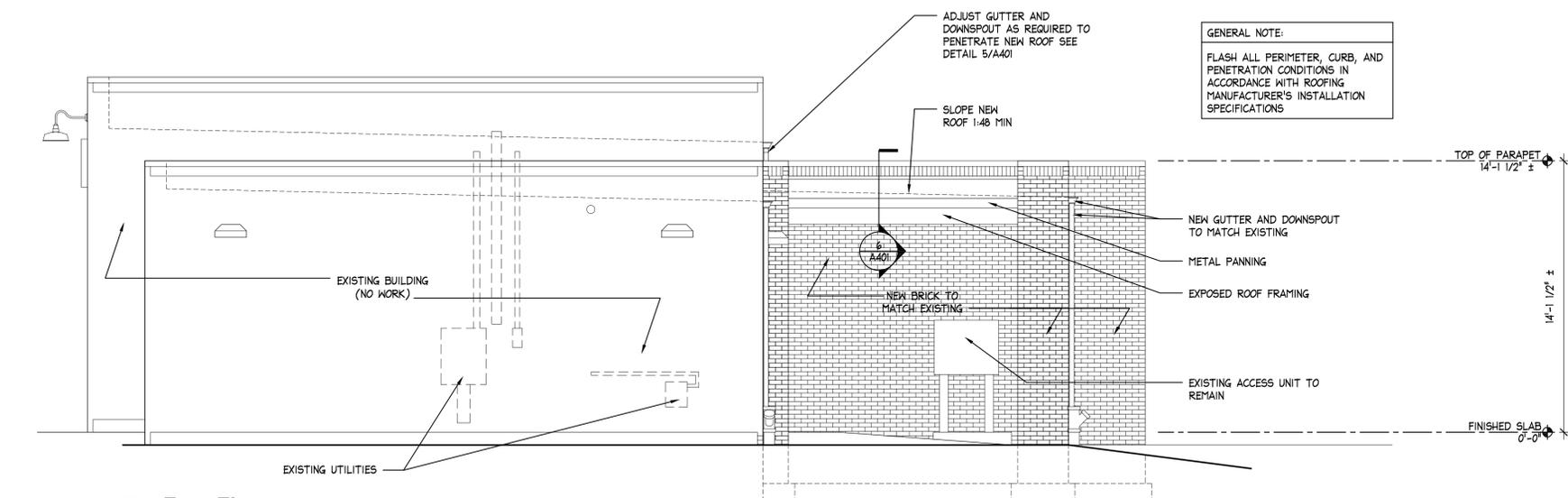
A201





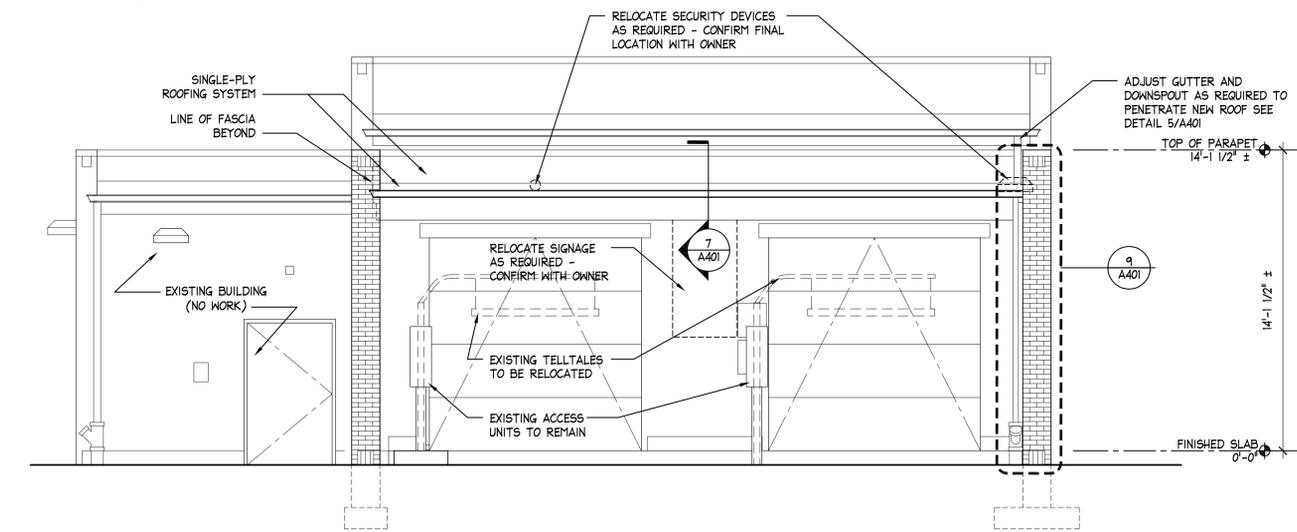
**1 West Elevation**  
A401 1/4" = 1'-0"

**2 Not Used**  
A401

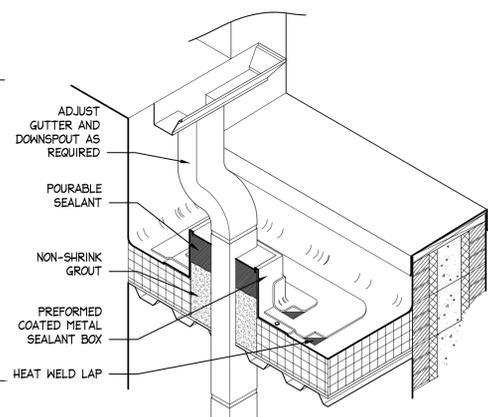


**3 East Elevation**  
A401 1/4" = 1'-0"

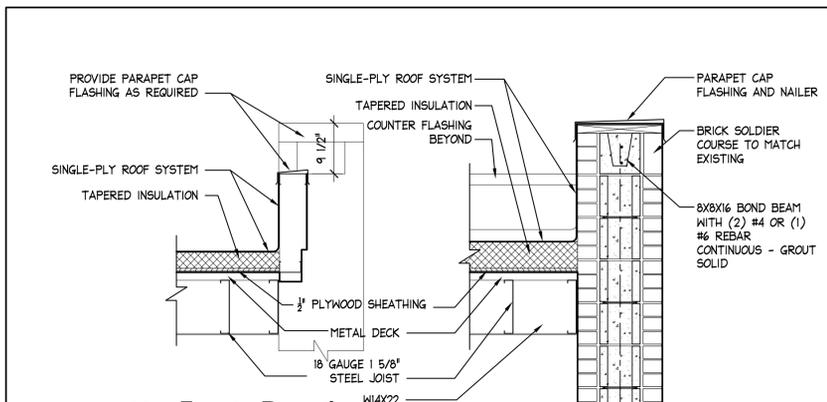
GENERAL NOTE:  
FLASH ALL PERIMETER, CURB, AND PENETRATION CONDITIONS IN ACCORDANCE WITH ROOFING MANUFACTURER'S INSTALLATION SPECIFICATIONS



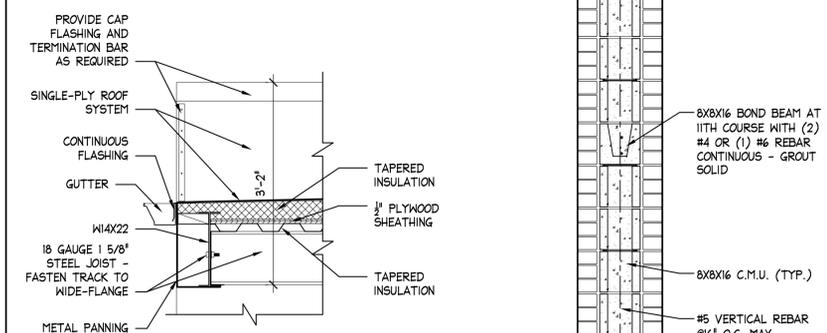
**4 North Elevation**  
A401 1/4" = 1'-0"



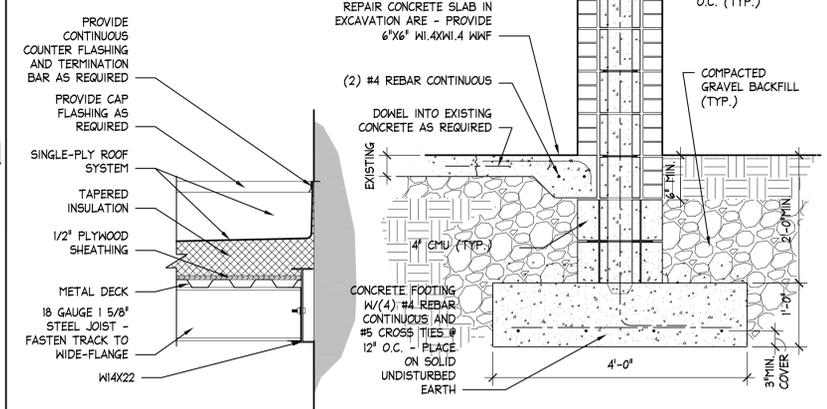
**5 Downspout Roof Penetration**  
A401 3/4" = 1'-0"



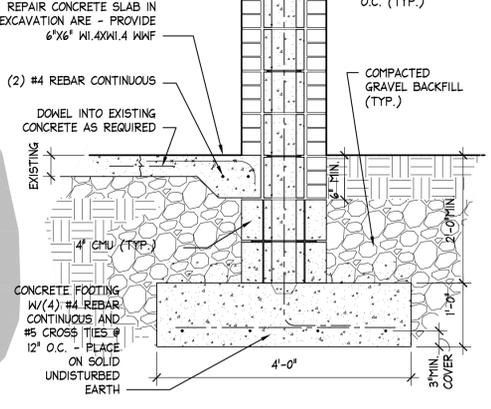
**6 Fascia Detail**  
A401 3/4" = 1'-0"



**7 Gutter Detail**  
A401 3/4" = 1'-0"



**8 Roof Juncture**  
A401 3/4" = 1'-0"



**9 Wall Section**  
A401 3/4" = 1'-0"

PROJECT NO. 01215.00  
May 2012

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Additions and Alterations to:  
**Laser Carwash**  
629 E Carson Street  
Pittsburgh, PA 15203

GERALD LEE MOROSCO ARCHITECTS, P.C.  
1016 EAST CARSON STREET PITTSBURGH, PA 15203-1797  
T: (412) 431-1447 F: (412) 431-1447 WWW.GLM-ARCHITECTS.COM



A401

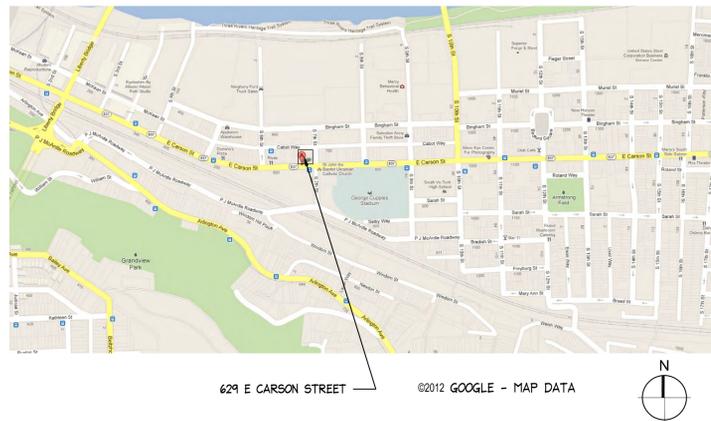
Addition and Alterations to:  
**Laser Carwash**  
 629 E Carson Street  
 Pittsburgh, PA 15203

**PROJECT NO. 1215.00**



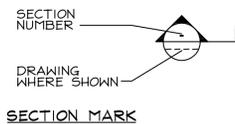
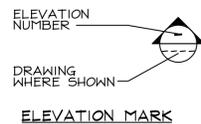
GERALD LEE MOROSCO ARCHITECTS, P.C.  
 1016 EAST CARSON STREET PITTSBURGH, PA 15203-1110  
 T: [412] 431-4347 F: [412] 431-2667 WWW.GLM-ARCHITECTS.COM

**SITE LOCATION MAP:**



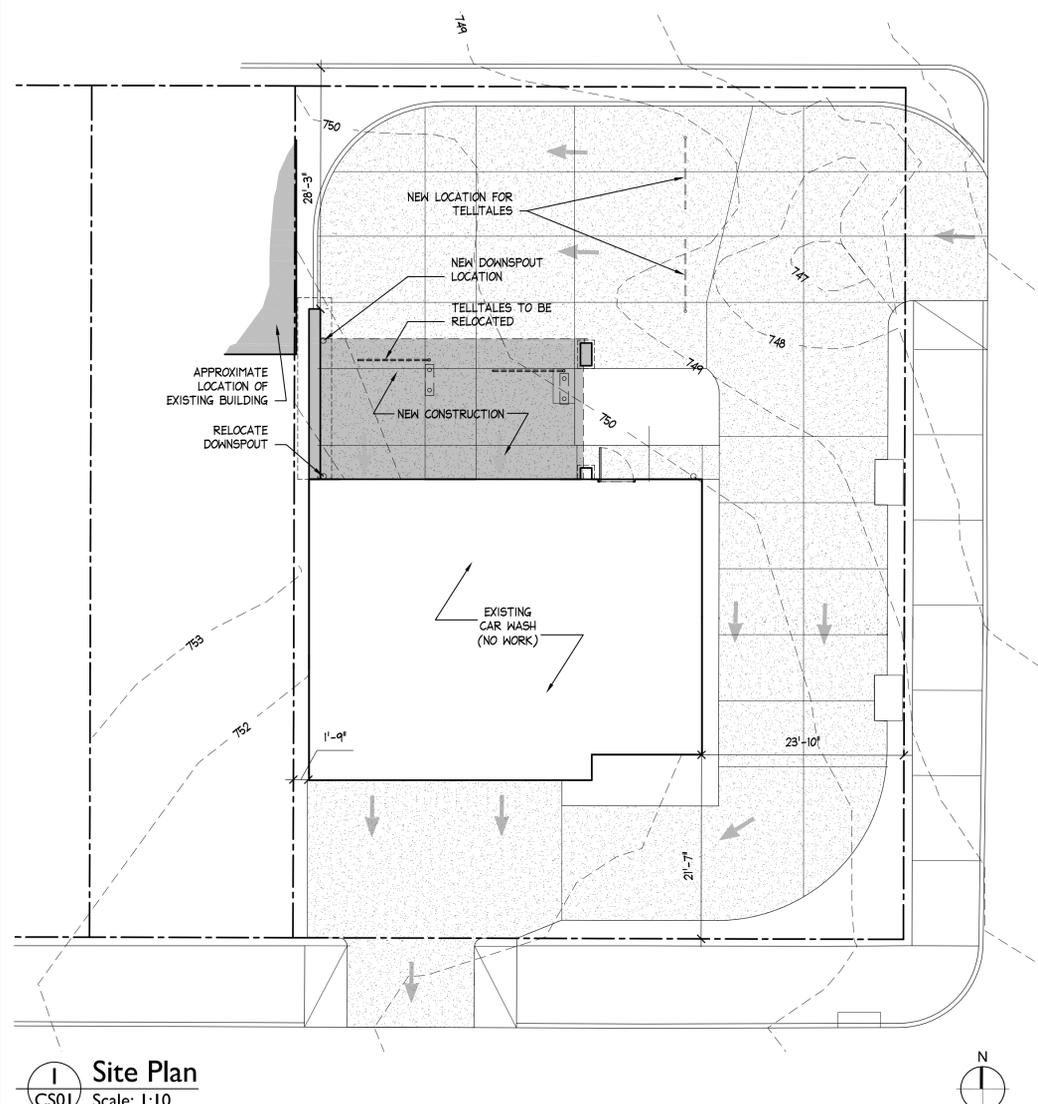
**LEGEND & SYMBOLS:**

- EXISTING WALL, PARTITION OR FEATURE TO BE REMOVED
- EXISTING WALL, PARTITION OR FEATURE TO REMAIN
- NEW MASONRY WALL
- LINE OF FEATURE BELOW OR HIDDEN FROM VIEW
- LINE OF CEILING, SOFFIT, OR FEATURE ABOVE



**ABBREVIATIONS:**

A/C	AIR CONDITIONING
A.C.T.	ACOUSTICAL CEILING TILE
ACOUS.	ACOUSTIC
ADJ.	ADJUSTABLE
A.F.F.	ABOVE FINISHED FLOOR
ALUM.	ALUMINUM
ARCH.	ARCHITECT
BTM.	BOTTOM OF
BD.	BOARD
BLDG.	BUILDING
BSMT.	BASEMENT
CABT.	CABINET
CATV	CABLE TELEVISION
CER.	CERAMIC
C.I.	CAST IRON
C.J.	CONTROL JOINT
CL.	CENTER LINE
CLG.	CEILING
CLST.	CLOSET
COL.	COLUMN
CONC.	CONCRETE
C.M.U.	CONCRETE MASONRY UNIT
D.	DEPTH
DBL.	DOUBLE
DN.	DIAMETER
DN.	DOWN
DTL.	DETAIL
DW.	DISHWASHER
DWG.	DRAWING
EA.	EACH
EL.	ELEVATION
ELEC.	ELECTRICAL
EQ.	EQUAL
EXIST.	EXISTING
FURN.	FURNACE
F.D.	FLOOR DRAIN
FIN. FL.	FINISHED FLOOR
FL.	FLOOR
F.O.	FINISHED OPENING
FT.	FOOT
GALV.	GALVANIZED
G.C.	GENERAL CONTRACTOR
GFCI	GROUND-FAULT CIRCUIT-INTERRUPT
G.W.B.	GYPHUM WALLBOARD
HORIZ.	HORIZONTAL
H.M.	HOLLOW METAL
HR.	HOUR
HWHR.	HARDWARE
HT.	HEIGHT
HVAC	HEATING, VENTILATING, AIR CONDITIONING
I.D.	INSIDE DIAMETER
ILLUM.	ILLUMINATED
INSUL.	INSULATION
J.B.	JUNCTION BOX
JT.	JOINT
L.	LENGTH
LAV.	LAVATORY
LB.	POUND
L.L.H.	LONG LEG HORIZONTAL
L.L.V.	LONG LEG VERTICAL
LT.	LAUNDRY TUB
M.	MASTER
MAX.	MAXIMUM
M.D.F.	MEDIUM DENSITY FIBERBOARD
MECH.	MECHANICAL
MED.	MEDIUM
MED.CABT.	MEDICINE CABINET
MFR.	MANUFACTURER
MNL.	MINIMUM
MISCLANEOUS	MISCELLANEOUS
M.O.	MASONRY OPENING
M.R.	MOISTURE RESISTANT
MTL.	METAL
N.I.C.	NOT IN CONTRACT
NO. (#)	NUMBER
NOM.	NOMINAL
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
O.F.C.I.	OWNER FURNISHED CONTRACTOR INSTALLED
OPG.	OPENING
OSB	ORIENTED STRAND BOARD
OZ.	OUNCE
PED.	PEDESTAL
PERF.	PENETRATED
P.LAM.	PLASTIC LAMINATE
PLYND.	PLYWOOD
PNL.	PANEL
POL.	POLISHED
PORC.	PORCELAIN
PR.	PAIR
PSI	POUNDS PER SQUARE INCH
PSF	POUNDS PER SQUARE FOOT
P.T.	PRESSURE TREATED
PVC	POLYVINYL CHLORIDE
R.	RISER
R/A	RETURN AIR
RCP	REFLECTED CEILING PLAN
REBAR	REINFORCING BAR
REF.	REFRIGERATOR
REIN.	REINFORCED OR REINFORCING
REQ'D.	REQUIRED
RM.	ROOM
R.O.	ROUGH OPENING
S/A	SUPPLY AIR
SABF	SOUND ATTENUATING FIRE BLANKET
SAN.	SANITARY
SCHED.	SCHEDULE
S.F.	SQUARE FOOT
SIM.	SIMILAR
SPEC.	SPECIFICATION
SQ.	SQUARE
STD.	STANDARD
STL.	STAINLESS STEEL
STL.	STEEL
STOR.	STORAGE
SUSP.	SUSPENDED
T/	TOP OF
TBD	TO BE DETERMINED
TCS II	TERNE COATED STAINLESS STEEL II
TEMP.	TEMPERED
TLT.	TILE
T&G	TONGUE AND GROOVE
TYP.	TYPICAL
V.B.	VAPOR BARRIER
V.C.T.	VINYL COMPOSITION TILE
VERT.	VERTICAL
V.I.F.	VERIFY IN FIELD
W/	WITH
W.	WIDTH
WD.	WOOD
WH	WATER HEATER
W.R.C.	WESTERN RED CEDAR
WVF	WELDED WIRE FABRIC
U.N.O.	UNLESS NOTED OTHERWISE



**DRAWING LIST:**

- CS01 COVER SHEET
- A201 ENLARGED SITE PLAN
- A401 EXTERIOR ELEVATIONS AND DETAILS

**NOTES:**

**REVIEW OF CONTRACT DOCUMENTS AND FIELD CONDITIONS BY CONTRACTOR**

THE CONTRACTOR SHALL CAREFULLY STUDY AND COMPARE THE CONTRACT DOCUMENTS WITH EACH OTHER AND SHALL AT ONCE REPORT TO THE ARCHITECT ERRORS, INCONSISTENCIES OR OMISSIONS DISCOVERED. IF THE CONTRACTOR PERFORMS ANY CONSTRUCTION ACTIVITY KNOWING IT INVOLVES A RECOGNIZED ERROR, INCONSISTENCY OR OMISSION IN THE CONTRACT DOCUMENTS WITHOUT SUCH NOTICE TO THE ARCHITECT, THE CONTRACTOR SHALL ASSUME APPROPRIATE RESPONSIBILITY FOR SUCH PERFORMANCE AND SHALL BEAR AN APPROPRIATE AMOUNT OF THE ATTRIBUTABLE COSTS FOR CORRECTION.

THE CONTRACTOR SHALL TAKE FIELD MEASUREMENTS AND VERIFY FIELD CONDITIONS AND SHALL CAREFULLY COMPARE SUCH FIELD MEASUREMENTS AND CONDITIONS AND OTHER INFORMATION KNOWN TO THE CONTRACTOR WITH THE CONTRACT DOCUMENTS BEFORE COMMENCING ACTIVITIES. ERRORS, INCONSISTENCIES OR OMISSIONS DISCOVERED SHALL BE REPORTED TO THE ARCHITECT AT ONCE.

**GENERAL REQUIREMENTS**

INSPECT EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF WORK, INCLUDING ELEMENTS SUBJECT TO DAMAGE OR MOVEMENT DURING CUTTING OR PATCHING.

AFTER UNCOVERING EXISTING WORK, INSPECT CONDITIONS AFFECTING PERFORMANCE OF NEW WORK. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO BEGINNING NEW WORK.

BEGINNING OF WORK MEANS ACCEPTANCE OF EXISTING CONDITIONS.

PROVIDE TEMPORARY SUPPORTS TO ENSURE STRUCTURAL INTEGRITY OF THE WORK. PROVIDE DEVICES AND MEASURES TO PROTECT OTHER PORTIONS OF THE WORK FROM DAMAGE.

PROVIDE AND MAINTAIN SECURED WEATHER TIGHT PROTECTION FROM THE ELEMENTS FOR AREAS WHICH MAY BE EXPOSED DURING WORK.

PROVIDE TEMPORARY PROTECTION AS REQUIRED TO PREVENT UNAUTHORIZED ENTRY TO CONSTRUCTION AREAS AND TO PREVENT THE EXISTING BUILDING FROM BEING DAMAGED DUE TO CONSTRUCTION OPERATIONS AND DEMOLITION.

FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS. NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO COMMENCEMENT OF WORK.

INSTALL AND APPLY PRODUCTS AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS, INCLUDING SURFACE PREPARATION.

**PROJECT TEAM:**

**OWNER:**  
 STEVE TODOROVICH  
 DIRKS SOUTHSIDE LAND, LLC  
 5727 KENTUCKY AVENUE  
 PITTSBURGH, PA 15232-2627  
 (412)-759-8886

**ARCHITECT:**  
 GERALD LEE MOROSCO ARCHITECTS, P.C.  
 1016 E CARSON STREET  
 PITTSBURGH, PA 15203  
 (412) 431-4347

PROJECT NO. 01215.00  
 May 2012

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Additions and Alterations to:  
**Laser Carwash**  
 629 E Carson Street  
 Pittsburgh, PA 15203

GERALD LEE MOROSCO ARCHITECTS, P.C.  
 1016 EAST CARSON STREET PITTSBURGH, PA 15203-1107  
 T: [412] 431-4347 F: [412] 431-2667 WWW.GLM-ARCHITECTS.COM



CS01







**LASER CAR WASH**

**OPEN**







**LASER CAR W**

**OPEN**

**P**

**P**



CAR WASH







Division of Development Administration and Review  
 City of Pittsburgh, Department of City Planning  
 200 Ross Street, Third Floor  
 Pittsburgh, Pennsylvania 15219

**HISTORIC REVIEW COMMISSION OF PITTSBURGH**  
**Application for a Certificate of Appropriateness**

- Staff Use -

**DEADLINES:**  
 Completed Applications must be submitted 15 days prior to next HRC hearing, when a hearing is required.

**FEE SCHEDULE:** See attached  
 Please make check payable to Treasurer, City of Pittsburgh

Fee Paid:  \$ \_\_\_\_\_

Date Received: 6/26/12  
 Hearing Date: 8/1/12  
 Lot and Block #: 3-H-148 17<sup>th</sup> Ward

ADDRESS OF PROPERTY: 1303 E. CARSON ST. PGT, PA 15203  
 HISTORIC DISTRICT: \_\_\_\_\_

**OWNER**

**APPLICANT**

Name: JLB DIVERSIFIED INVESTMENTS  
 Address: 1480 DORMANT AVE  
 City, State, Zip: PITTSBURGH, PA 15216  
 Phone: (4) 812-1578 Fax: (4) 571-0197  
 E-MAIL: JCOHEN@TRENDCAPITAL.COM

Name: JLB DIVERSIFIED INVESTMENTS  
 Address: 1480 DORMANT AVE  
 City, State, Zip: PGT, PA 15216  
 Phone: (4) 812-1578 Fax: (4) 571-0197  
 E-MAIL: JCOHEN@TRENDCAPITAL.COM

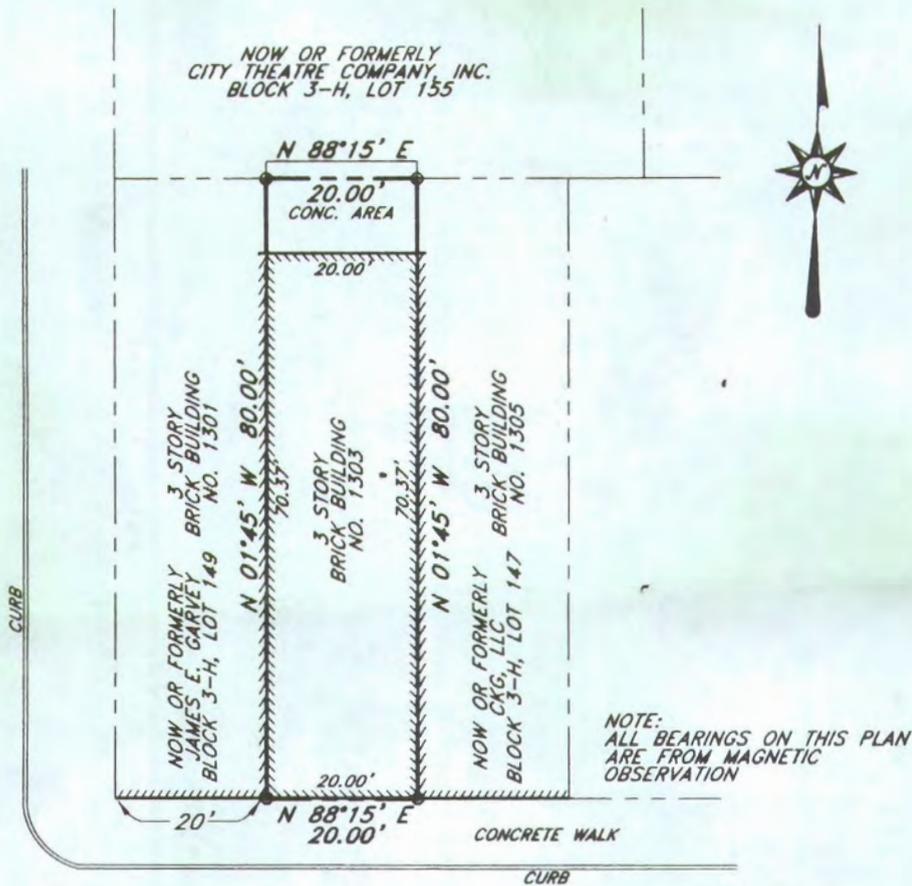
REQUIRED ATTACHMENTS:  Drawings  Photographs  Renderings  Site Plan  Other

DETAILED DESCRIPTION OF PROPOSED WORK: ADD CLEAR ANODIZED ALUMINUM TRIM  
ADD BLACK GRANITE TILES. ADD WHITE GLASS PANELS TO OVERLAY EXISTING  
TRIM. ADD BLACK ANODIZED ALUM LIGHT BOX, W/UP LIGHTS

SIGNATURE \_\_\_\_\_, Owner DATE 5/7/12  
 SIGNATURE \_\_\_\_\_, Applicant DATE 5/7/12



**SOUTH THIRTEENTH STREET - 60'**  
 ASPHALT SURFACE



**EAST CARSON STREET - 50'**  
 ASPHALT SURFACE

CURB

**SURVEY OF PROPERTY**  
 MADE FOR  
**JLB DEVELOPMENT GROUP**

SITUATE IN  
**CITY OF PITTSBURGH - 17TH WARD**  
**ALLEGHENY COUNTY - PENNSYLVANIA**



JOB No. A-23383

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OFFICE - 3001 JACKS RUN ROAD

- EMPIRE BLDG., SUITE ONE

- McKEESPORT, PENNA. 15131

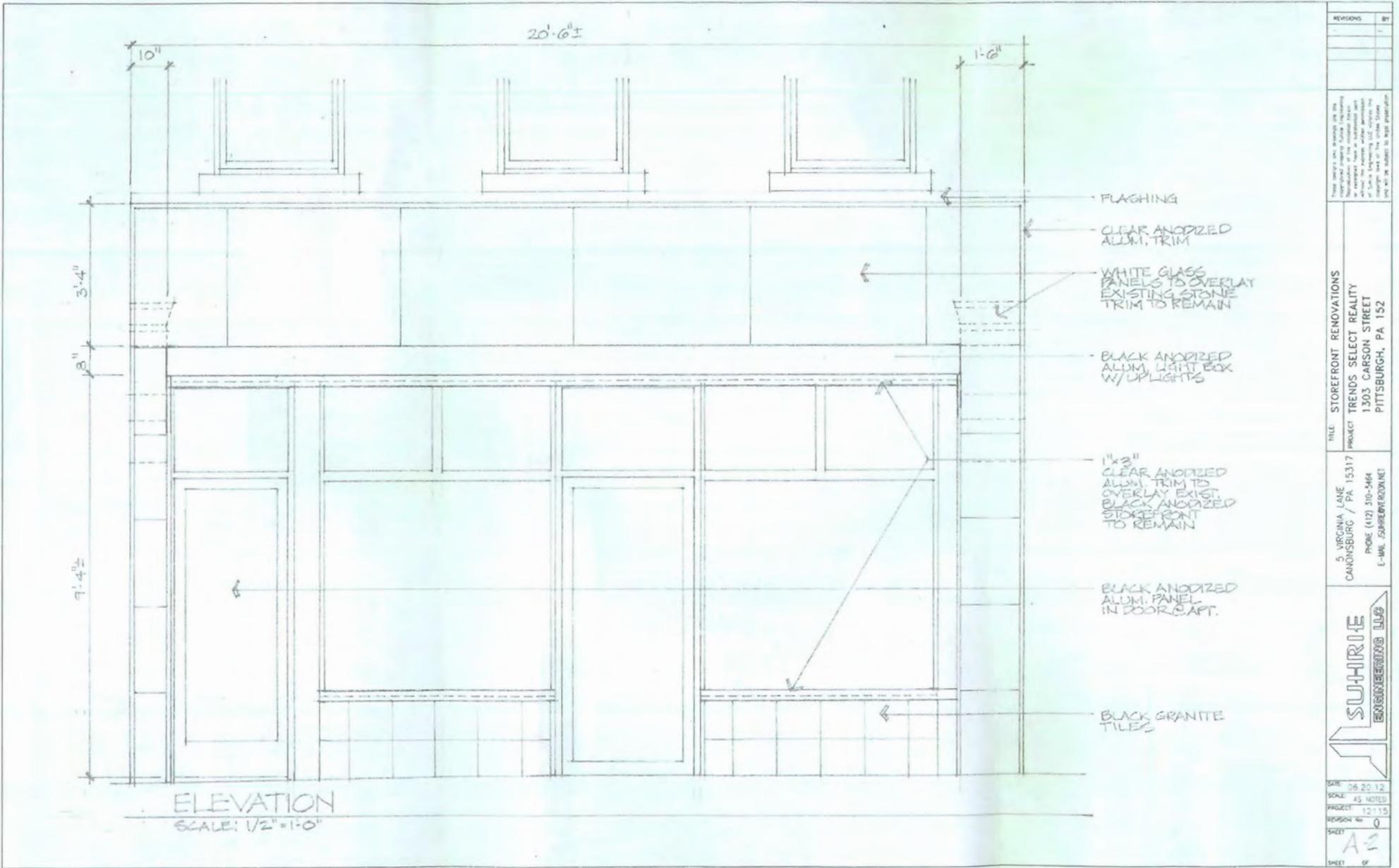
PHONES: 412-678-4403

412-823-0887

FAX: 412-678-7603

SCALE: 1" = 20'	P.B.V.	BLOCK 3-H	DRAWN BY - SPP
APRIL 14, 2012	PAGE	LOT 148	CHECKED BY - JD





REVISIONS	
NO.	BY

These drawings are prepared and the information contained herein is to be used for the project only. It is not to be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or by any information storage and retrieval system, without the prior written permission of the author.

TITLE: STOREFRONT RENOVATIONS  
 PROJECT: TRENDS SELECT REALTY  
 1303 CARSON STREET  
 PITTSBURGH, PA 152

5 WILSON LANE  
 CARONSBURG / PA 15317  
 PHONE (412) 310-5464  
 E-MAIL: SAHRE@VERIZON.NET

**SUHRIG**  
 ENGINEERING LLC

DATE: 06.20.12  
 SCALE: AS NOTED  
 PROJECT: 12115  
 REVISION NO: 0  
 SHEET: A-2  
 SHEET: 8







PITTSBURGH



EXIT

OPEN







1303

EXIT



PITTSBURGH

No Parking

EXIT

OPEN

Rec'd 7/9/12 from S. Quinn



Division of Development Administration and Review  
City of Pittsburgh, Department of City Planning  
200 Ross Street, Third Floor  
Pittsburgh, Pennsylvania 15219

**HISTORIC REVIEW COMMISSION OF PITTSBURGH**  
**Application for a Certificate of Appropriateness**

DEADLINE:

Completed applications must be received at least 13 working days prior to the HRC hearing, when a hearing is required

FEE SCHEDULE:

See attached. Please make check payable to:  
Treasurer, City of Pittsburgh.

ADDRESS OF PROPERTY:

1611 East Carson Street  
Pittsburgh, PA 15203

OWNER:

NAME: 17th Street Partners L.P.  
ADDRESS: 1715 Smith Street  
Pgh PA 15203  
PHONE: 412-398-7119  
EMAIL: ZSSMITH@LWERE.COM

STAFF USE ONLY:

DATE RECEIVED: \_\_\_\_\_  
LOT AND BLOCK NUMBER: \_\_\_\_\_  
WARD: \_\_\_\_\_  
FEE PAID: 600

DISTRICT:

LNC

APPLICANT:

NAME: AT & T mobility  
ADDRESS: 2630 Liberty Ave.  
Pittsburgh, PA 15222  
PHONE: 412-613-7306  
EMAIL: COOPERJ@bv.com

REQUIRED ATTACHMENTS:

- Drawings     Photographs     Renderings     Site Plan     Other

DETAILED DESCRIPTION OF PROPOSED PROJECT:

Please see attached page

SIGNATURES:

OWNER: [Signature] President    DATE: 7-11-12  
APPLICANT: [Signature]    DATE: 7-11-12



July 12, 2012

Historic Review Commission  
City of Pittsburgh, Department of City Planning  
200 Ross Street  
Pittsburgh, PA 15219

RE: AT&T Mobility Antenna Installation

“Detailed Description of Project”:

AT&T was previously approved by the Historic Review Commission and then Zoning to install twelve (12) antennas and related equipment on the building located at 1611 East Carson Street. The installation consisted of three (3) sectors each with four (4) antennas; two (2) sectors were to be placed on the rooftop and the third being flush mounted to the building. When the plans were reviewed by the City's Bureau of Building Inspections it was brought to our attention that the third sector, which was to be flush mounted to the building, would be over the lot line and that we would need an Encroachment Agreement with those property owners. After numerous attempts we could not get the Encroachment Agreement done; AT&T's only option is to place the third sector of antennas on the rooftop.

The project brought forth now is to install four (4) antennas on the north side of the building; we will use a panel screen to hide the antennas colored to blend with the buildings facade.

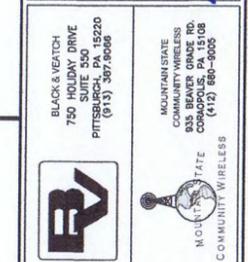


# AT&T

## SITE NUMBER: P470

## SITE NAME: EAST CARSON STREET

EXISTING ±63'-0" BUILDING ROOF TOP



### PROJECT INFORMATION

**APPLICANT:** AT&T  
 2630 LIBERTY AVENUE  
 PITTSBURGH, PA 15222  
**SITE ACQUISITION:** SITE ACQUISITION SOLUTIONS  
 JIM AULD  
 PHONE: (412) 559-0785  
**TURF CONTRACT HOLDER:** BLACK & VEATCH  
 PETER McMILLEN  
 PHONE: (412) 759-0674  
**ENGINEER:** RED SWING GROUP  
 MATTHEW E. SMITH, P.E.  
 PHONE: (724) 325-1215  
**SITE OWNER(S):** LANGHOLZ WILSON ELLIS, INC.  
 606 LIBERTY AVENUE, SUITE 300  
 PITTSBURGH, PA 15222-2721  
 PHONE: (412) 261-7119  
**SITE ADDRESS:** 1611 EAST CARSON STREET  
 PITTSBURGH, PA 15203  
**COUNTY:** ALLEGHENY  
**LATITUDE:** N40°25'44.22"  
**LONGITUDE:** W-79°58'56.37"  
**EXISTING GROUND ELEVATION:** 756.37± AMSL  
**PROPOSED AT&T RAD. CENTER:** 60'-10"± & 69'-9"± AGL, 817.20± & 826.12± AMSL

### PROJECT DESCRIPTION

INSTALL NEW UNMANNED EQUIPMENT WITH ELECTRIC AND TELCO SERVICE, AND PROPER GROUND SYSTEM. MOUNT ANTENNAS AND NECESSARY COAX ON EXISTING ROOF TOP/STRUCTURE.

### NOTICE

CONTRACTOR SHALL VERIFY ALL PLANS & EXISTING DIMENSIONS & CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH ANY WORK OR MATERIAL ORDERS OR BE RESPONSIBLE FOR SAME. DO NOT SCALE DRAWINGS. THESE DRAWINGS MAY NOT SHOW ALL UNDERGROUND PIPING AND UTILITIES. THE CONTRACTOR SHALL EXERCISE EXTREME CARE DURING ALL CONSTRUCTION ACTIVITIES.

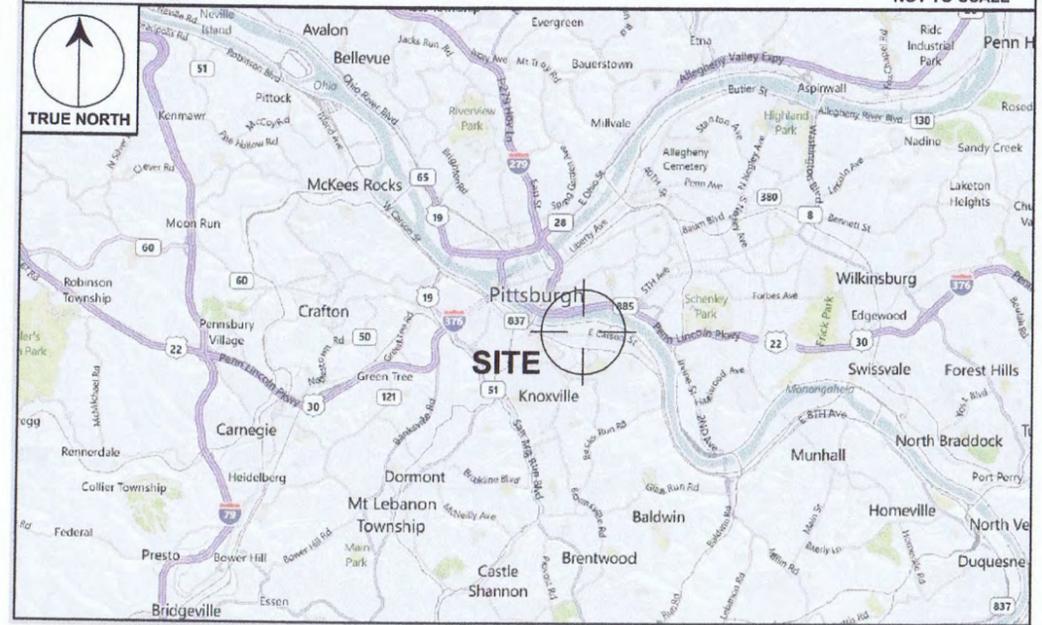
### LEGEND

AMSL = ABOVE MAIN SEA LEVEL  
 AGL = ABOVE GROUND LEVEL  
 TYP = TYPICAL

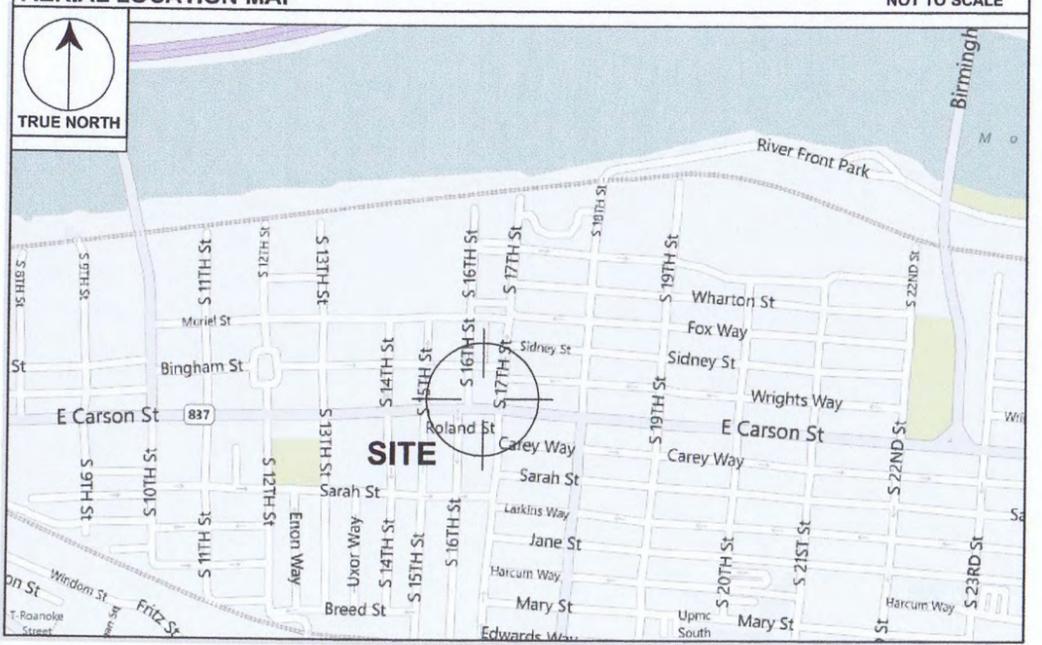
### DIRECTIONS

1. AT 1611 EAST CARSON STREET PITTSBURGH, PA 15203 START OUT GOING SOUTHWEST ON LIBERTY AVE TOWARD 26TH ST.
2. STAY STRAIGHT TO GO ONTO GRANT ST.
3. TURN LEFT ONTO FORBES AVE.
4. TURN RIGHT ONTO S 10TH ST / ARMSTRONG TUNNEL. CONTINUE TO FOLLOW S 10TH ST.
5. TURN LEFT ONTO E CARSON ST / PA-837.
6. 1611 E CARSON ST PITTSBURGH, PA 15203-1703 IS ON THE LEFT.

### VICINITY MAP



### AERIAL LOCATION MAP



### APPROVAL LIST

TITLE	SIGNATURE	DATE
AT&T RF ENGINEER		
BLACK & VEATCH		
AT&T		
SITE OWNER		

ACKNOWLEDGEMENT OR "SIGN-OFF" BY PARTIES TO THE CONSTRUCTION DRAWINGS DOES NOT CONSTITUTE ALTERATION OF LEASE TERMS.

### SHEET INDEX

SHEET NO.	SHEET TITLE	REVISION HISTORY	
		REV. NO.	DATE
T-1	TITLE SHEET	8	7/9/2012
C-1	ROOF PLAN	8	7/9/2012
C-2	4TH FLOOR EQUIPMENT LAYOUT PLAN & DETAILS	8	7/9/2012
C-3	BUILDING ELEVATIONS	8	7/9/2012
C-4	COAXIAL & CONDUIT SUPPORT DETAILS	5	1/16/2012
C-5	CONSTRUCTION DETAILS	5	1/16/2012
C-6	RET/UMTS CONFIGURATIONS	5	1/16/2012
C-7	COAXIAL COLOR CODING	5	1/16/2012
M-1	MECHANICAL PLANS & NOTES	7	3/8/2012
E-1	4TH FLOOR ELECTRICAL & GROUNDING PLAN	7	3/8/2012
E-2	BASMENT ELECTRICAL PLAN AND GENERATOR PLUG LOCATION PLAN	7	3/8/2012
E-3	TELCO INTERFACE SCHEMATIC	5	1/16/2012
G-1	GROUNDING DETAILS	5	1/16/2012
S-1	FRAMING PLAN, SECTIONS & DETAILS	1	3/2/2012
S-2	ENLARGED FRAMING PLANS & SECTIONS	1	3/2/2012
GN-1	GENERAL NOTES	5	1/16/2012
GN-2	GENERAL NOTES	5	1/16/2012
GN-3	GENERAL NOTES	5	1/16/2012
GN-4	GENERAL NOTES	5	1/16/2012
GN-5	GENERAL NOTES	5	1/16/2012

AT&T  
 SITE NO.: P470  
 SITE NAME: EAST CARSON ST. (ROOF TOP)  
 1611 EAST CARSON STREET  
 PITTSBURGH, PA 15203

REVISIONS:	DATE	DESCRIPTION
8	7/9/2012	REVISED ALPHA SECTOR & EQUIPMENT ROOM
7	3/8/2012	REVISED PER ELECTRICAL CODE RESOLUTION
6	2/9/2012	HVAC DESIGN ENHANCEMENTS
5	1/16/2012	ISSUED FOR CONSTRUCTION
4	7/9/2012	ISSUED FOR REVIEW
3	12/5/2011	REVISED PER COMMUNITY MEETING GROUP COMMENTS
2	8/24/2011	RELOCATED ANTENNA MOUNTING LOCATIONS
1	6/15/2011	UPDATED EQUIPMENT ROOM DESIGN PER CLIENT COMMENTS
0	5/17/2011	ISSUED FOR CITY SUBMISSION
B	4/28/2011	ISSUED FOR CLIENT REVIEW

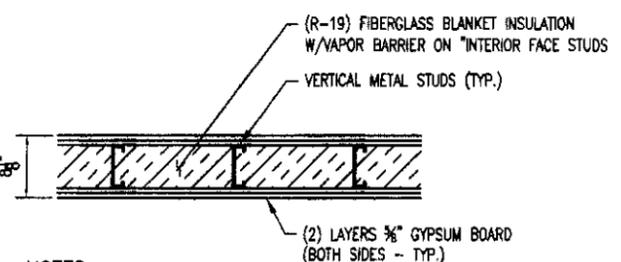
PROJ NO: 1067  
 SCALE: AS NOTED  
 DATE: 4/11/2011  
 DRAWN BY: JLD  
 CHECKED BY: JLD  
 APPROVED BY: MES  
**SHEET TITLE:**  
**TITLE SHEET**  
**SHEET NO.**  
**T-1**



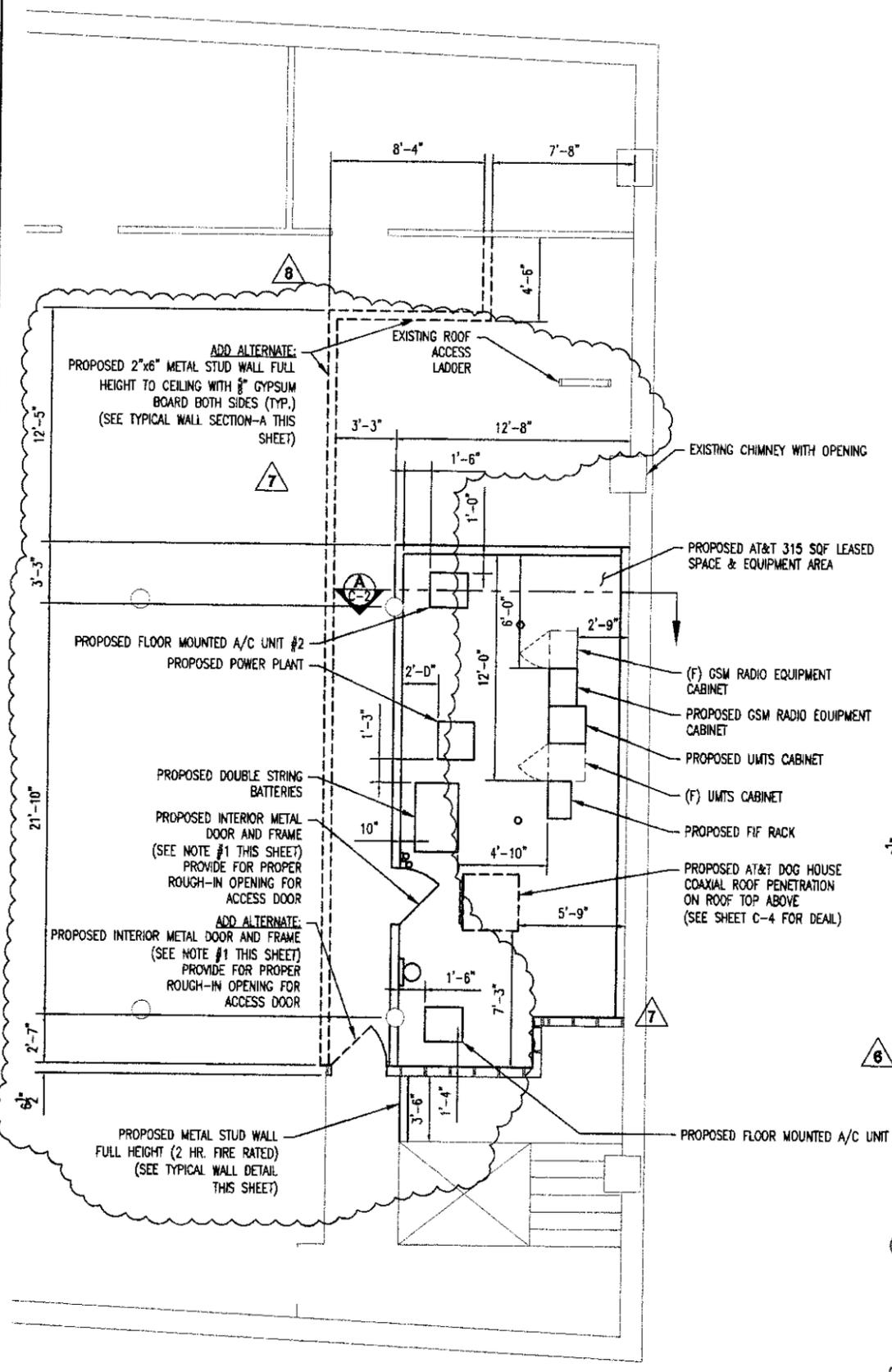
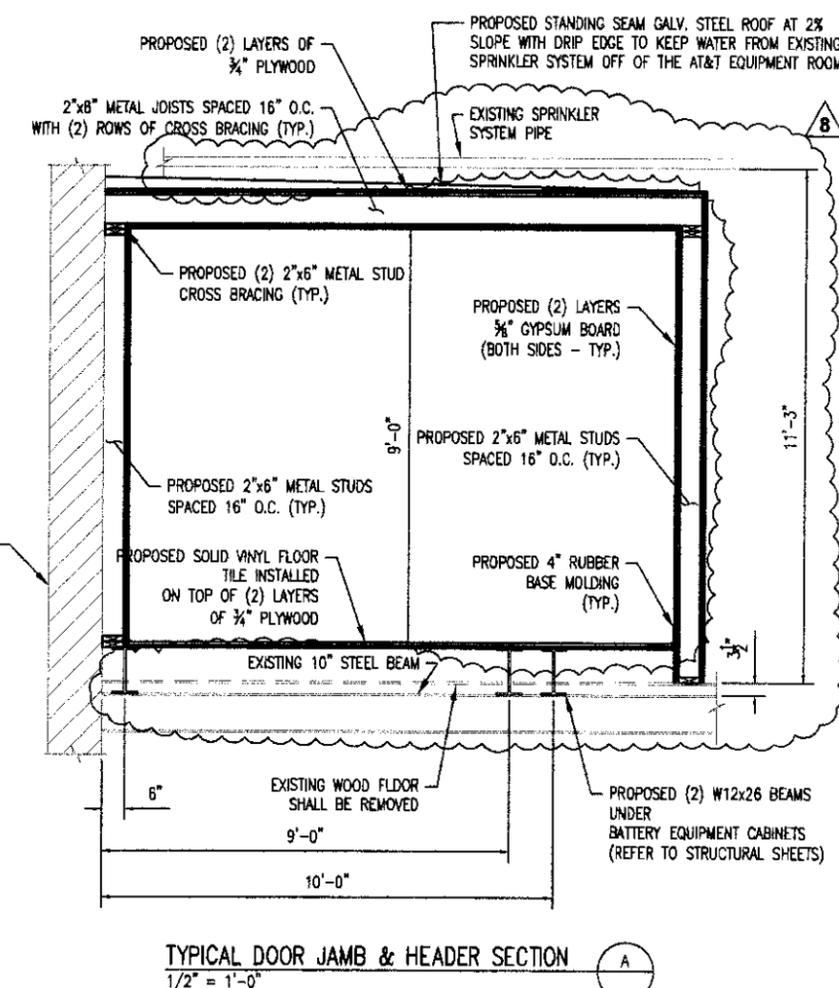
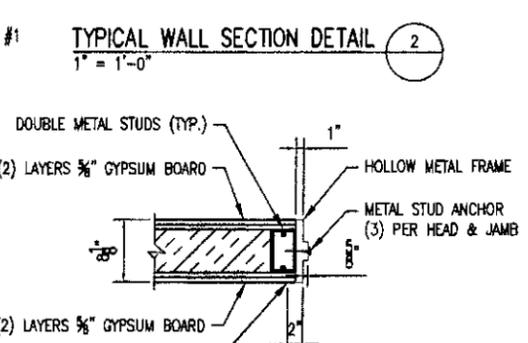
**EQUIPMENT ROOM NOTES:**

- INTERIOR HOLLOW METAL DOOR & FRAME SHALL BE PROVIDED AND INSTALLED. THE UNIT SHALL BE A 3'-0"x7'-0"x1 1/2" DOOR AND FRAME. DOOR AND FRAME SHALL BE FABRICATED OF MIN. 16 GAGE HOT DIP GALVANIZED SHEET STEEL, WITH CLOSED TOP AND BOTTOM EDGES BEING AN INTEGRATED PART OF THE WELDED DOOR CONSTRUCTION. THE DOOR MUST COMPLY WITH SDI (STEEL DOOR INSTITUTE) 100 FOR DOOR AND FRAME FABRICATION AND INSTALLATION. MOUNT HARDWARE IN ACCORDANCE WITH SDI 100. THE DOOR HARDWARE SHALL BE AS SHOWN BELOW:
  - 1 1/2" PAIR BALL BEARING HINGES
  - 1 EACH - LOCKING LATCHES - SIMPLEX ACCESS CONTROL ILCOM UNICAN SERIES 1021 W/LEVER DOOR HANDLE (CORE TO MATCH BUILDING KEYING SYSTEM) - 260.
  - 1 EACH - DOOR CLOSER
  - 2 EACH - 8" KICK PLATE ON EACH SIDE OF DOOR
  - 1 SET - WEATHER-STRIPPING
  - 1 EACH - DOOR BOTTOM
  - 1 EACH - THRESHOLD
- CEILING AND WALL PENETRATIONS SHALL BE SEALED FOR MECHANICAL, ELECTRICAL AND TELEPHONE EQUIPMENT SUPPLIES, CABLES AND CONDUITS IN NEW FIRE RATED FLOORS, CEILING AND WALLS AFFECTED BY THE WORK. THE FIRE RATING OF THE PENETRATION SEAL SHALL BE AT LEAST THAT OF THE FLOOR OR WALL INTO WHICH IT IS INSTALLED. CONTRACTOR SHALL FURNISH AND INSTALL FIRE STOP SYSTEMS AND ASSEMBLIES PER MANUFACTURERS RECOMMENDATIONS AND SPECIFICATIONS AND PROVIDE (WHERE REQUIRED) A FIRE STOPPING WORKSHEET TO ALL AGENCIES WHICH GOVERN OVER THE LAND(S) ON WHICH CONSTRUCTION IS TO BE PERFORMED.
- CONTRACTOR SHALL PROVIDE ALL LABOR, EQUIPMENT AND MATERIAL FOR THE PROPER LIFTING AND SETTING OF THE RADIO EQUIPMENT CABINET(S) FROM THE TRANSPORT TRUCK BED TO THE FINAL POSITION IN THE RADIO EQUIPMENT ROOM. CONTRACTOR SHALL BE RESPONSIBLE FOR ATTACHING OR SECURING ANY ACCESSORY OR LOOSE ITEMS THAT ARE SHIPPED WITH THE RADIO EQUIPMENT CABINET(S) AND SHALL INCLUDE THIS WORK IN THE BUILDING INSTALLATION PORTION OF THE BID. (COORDINATE WITH EQUIPMENT MANUFACTURER ON ALL SPECIFICATIONS).
- CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFICATION AND COORDINATION OF ALL GOVERNING AGENCIES THAT REQUIRE SITE INSPECTION OF THE WORK AND/DR SIMPLY NOTIFICATION.
- CONTRACTOR SHALL FURNISH AND INSTALL A VINYL COMPOSITION FLOOR TILE WHICH SHALL BE 12" SQUARE (3/8" THICK) AND A 4" RUBBER BASE MOLDING (0.080" THICK) WITHIN EQUIPMENT ROOM AREA. (MANUFACTURED BY VINYL PLASTICS, INC. OR APPROVED EQUAL) COLORS TO BE SELECTED AT TIME OF AWARD.
- THE COMPLETED RADIO EQUIPMENT ROOM SHALL BE AIR TIGHT. A PRESSURE ROOM INTEGRITY TEST SHALL BE PERFORMED PER REQUIREMENTS OF THE LATEST EDITION NFPA (BS15014520-1). ANY LEAKS DETECTED DURING THIS TEST SHALL BE SEALED BY THE SUBCONTRACTOR AND THE ROOM RETESTED.
- EQUIPMENT ROOM DESIGN LOADS:
 

<b>RADIO EQUIPMENT WEIGHTS:</b>	
BATTERIES (DOUBLE STACK)	6540 LBS.
RECTIFIER	800 LBS.
GSM CABINET	800 LBS. (EACH)
UMTS FRAME W/EQUIPMENT	500 LBS.
FIF RACK	150 LBS.
FAN COIL UNIT	200 LBS. (EACH)
- CONTRACTOR SHALL REPAIR ALL EXISTING FLOOR, ROOF, CEILING AND WALL SURFACES AND FINISHES DISTURBED DURING THE GENERAL CONSTRUCTION PHASES FOR THE WORK ON THIS PROJECT. CONTRACTOR SHALL PROVIDE ALL LABOR AND MATERIALS AS REQUIRED TO RESULT IN A SMOOTH FINISH SURFACE TO MATCH EXISTING SITE CONDITIONS WITH THE APPROVAL OF THE BUILDING OWNER.



- NOTES:**
- DOUBLE STUDS AT CORNERS AND COAXIAL ENTRY LOCATIONS.
  - CONTRACTOR SHALL PROVIDE AND INSTALL (2)-LAYERS OF 5/8" TYPE 'X' WATER RESISTANT GYPSUM BOARD ON BOTH SIDES OF THE 3"x18"x18 GAUGE CJS METAL STUDS AT 16" O.C. BRACE STUDS LATERALLY AT MAX. INTERVALS OF 48" O.C. WITH 1 1/2" COLD ROLLED CHANNELS INSERTED THROUGH THE STUD WEB HOLES AND SECURED WITH SCREWS ATTACHED OR WELDED CLIP ANGLES AT EACH STUD. PROVIDE VAPOR BARRIER ON THE INTERIOR SIDE OF THE METAL STUDS. EXTEND GYPSUM BOARD TIGHT TO DECK (SEAL WITH LATEX FIRE CAULK). DESIGN NO. U425 - WALL RATING 2 HOURS



**RED SWING GROUP**  
4154 OLD WILLIAM PENN HWY  
SUITE 300  
MURRYSVILLE, PA 15068  
OFFICE: 724-326-1215

---

AGE SEAL: JAMES A. SMITH

---

BUCKLE UP FOR THE ROAD AHEAD  
750 STATE ST.  
PITTSBURGH, PA 15220  
(412) 397-8000

COMMUNITY WIRELESS  
1611 EAST CARSON STREET  
PITTSBURGH, PA 15203  
(412) 794-4000

---

**AT&T**  
SITE NO.: P470  
SITE NAME: EAST CARSON ST. (ROOF TOP)  
1611 EAST CARSON STREET  
PITTSBURGH, PA 15203

AGENCY APPROVED BY CONTRACTOR FOR THE CONSTRUCTION OF THIS PROJECT. THE DRAWINGS DO NOT CONSTITUTE AN ENDORSEMENT OF LEASE TERMS. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL APPLICABLE AGENCIES. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL APPLICABLE AGENCIES. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL APPLICABLE AGENCIES.

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REVISIONS:	DATE	DESCRIPTION
8	7/9/2012	REVISED ALPHA SECTIONS & EQUIPMENT ROOM
7	3/9/2012	REVISED PER ELECTRICAL CODE RESOLUTION
6	2/9/2012	HVAC DESIGN ENHANCEMENTS
5	1/16/2012	ISSUED FOR CONSTRUCTION
4	1/9/2012	ISSUED FOR REVIEW
3	1/9/2011	REVISED PER COMMUNITY MEETING GROUP COMMENTS
2	8/24/2011	RELOCATED ANTENNAS MOUNTING LOCATIONS
1	6/15/2011	UPDATED EQUIPMENT ROOM DESIGN PER CLIENT COMMENTS
0	5/17/2011	ISSUED FOR CITY SUBMISSION
B	4/28/2011	ISSUED FOR CLIENT REVIEW

---

PROJ NO: 1097  
SCALE: AS NOTED  
DATE: 4/11/2011  
DRAWN BY: JLD  
CHECKED BY: JLD  
APPROVED BY: MES

**SHEET TITLE:**  
4TH FLOOR  
EQUIP. LAYOUT  
PLAN & DETAILS

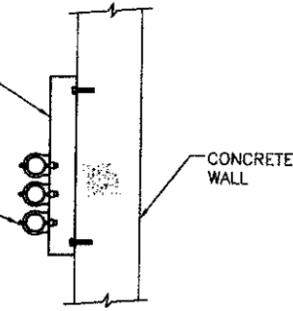
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SHEET NO. **C-2**



UNISTRUT P1000 X 12<sup>2</sup>  
 @ 4' O.C. MAX. ATTACH  
 W/ (2) 3/8"Ø (MIN.  
 EMB DEPTH = 1  
 5/8")

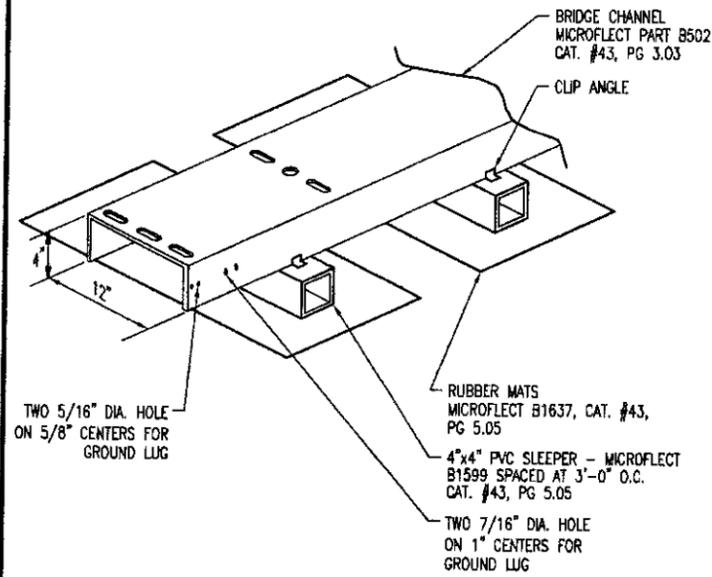
ANTENNA CABLE W/  
 NON INSULATED  
 HANGERS



VERTICAL COAXIAL SUPPORT  
 NO SCALE

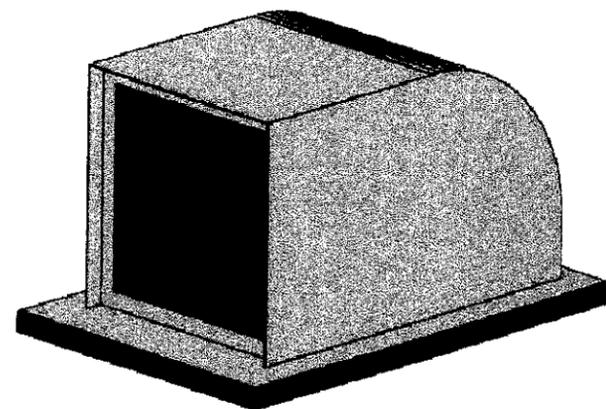
1

NOTE:  
 1. FOR PASSING OVER EXISTING  
 CABLE TRAYS, MOUNT MULTIPLE  
 SLEEPERS UNDER BRIDGE AS  
 REQ'D TO PROVIDE FULL SUPPORT



ANTENNA COAXIAL SUPPORT  
 NO SCALE

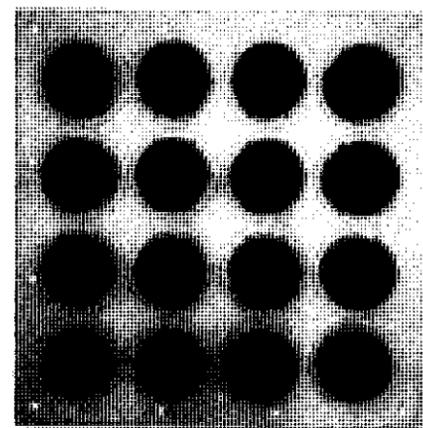
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NOTE:  
 USE SITE PRO 1 PART (SP365G)  
 OR APPROVED EQUIAL.

ROOF TOP COAXIAL HOOD ENTRY  
 NOT TO SCALE

4

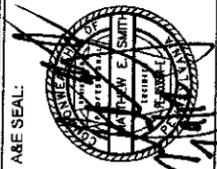


NOTE:  
 USE SITE PRO 1 PART (E1447)  
 OR APPROVED EQUIAL.

COAXIAL ENTRY PANEL  
 NOT TO SCALE

5

**REDX II  
 SWING  
 GROUP**  
 4154 OLD WILLIAM PENN HWY  
 SUITE 300  
 MURKYSVILLE, PA 15668  
 OFFICE: 724-325-1215



BLACK & VEATCH  
 750 HOLIDAY DRIVE  
 SUITE 500  
 PITTSBURGH, PA 15203  
 (412) 387-8000



COMMUNITY WIRELESS  
 832 BEAVER CREEK RD  
 COMPTON, PA 15106  
 (412) 866-1000

AT&T  
 SITE NO.: P470  
 SITE NAME: EAST CARSON ST. (ROOF TOP)  
 1611 EAST CARSON STREET  
 PITTSBURGH, PA 15203

ACKNOWLEDGMENT OF REVIEWER'S PARTIALITY TO THE CONTRACTOR OR  
 THE ENGINEER DOES NOT CONSTITUTE ALTERATION OF LEGAL TERMS  
 BY FAILURE TO USE OR DISCLOSE CONFLICTS OF INTERESTS AND/OR  
 CLIENT NAMES STRICTLY PROHIBITED. IT IS A VIOLATION OF LAW TO ANY  
 PERSON, PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

REVISIONS:	DATE	DESCRIPTION
5	1/18/2012	ISSUED FOR CONSTRUCTION
4	1/9/2012	ISSUED FOR REVIEW
3	12/5/2011	REVISED PER COMMUNITY MEETING COMMENTS
2	9/24/2011	RELOCATED ANTENNAS MOUNTING LOCATIONS
1	6/15/2011	UPDATED EQUIPMENT ROOM DESIGN PER CLIENT COMMENTS
0	5/17/2011	ISSUED FOR CITY SUBMISSION
B	4/28/2011	ISSUED FOR CLIENT REVIEW
MARK	DATE	DESCRIPTION

PROJ NO: 1067  
 SCALE: AS NOTED  
 DATE: 4/11/2011  
 DRAWN BY: JLD  
 CHECKED BY: JLD  
 APPROVED BY: MES

SHEET TITLE:  
**COAXIAL &  
 CONDUIT  
 SUPPORT  
 DETAILS**

SHEET NO.  
**C-4**







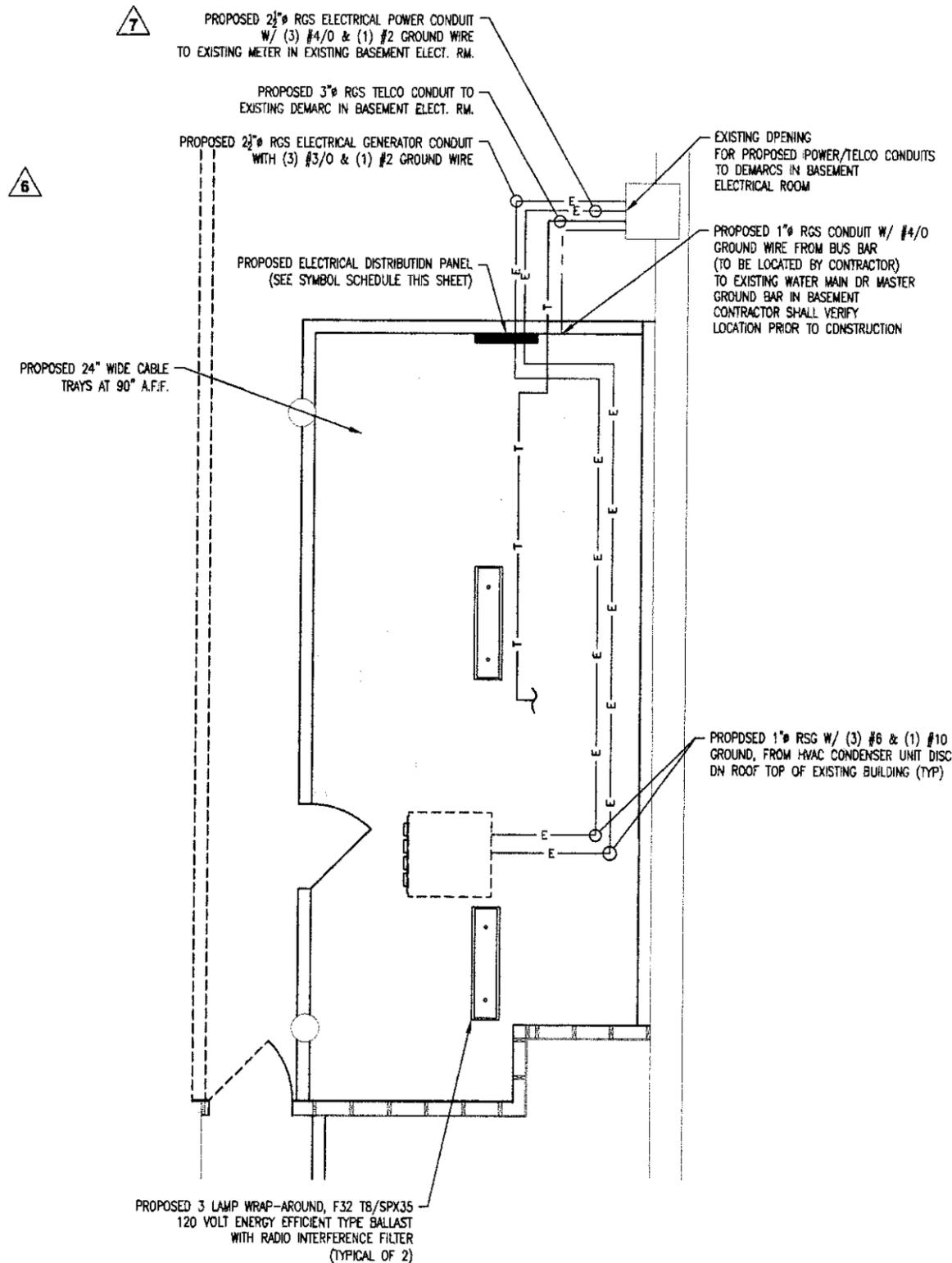


**GENERAL NOTES:**

- CONTRACTOR SHALL INSPECT THE EXISTING SITE CONDITIONS PRIOR TO SUBMITTING BID, ANY QUESTIONS ARISING DURING THE BID PERIOD IN REGARDS TO THE CONTRACTORS FUNCTIONS, THE SCOPE OF WORK, OR ANY OTHER ISSUE RELATED TO THIS PROJECT SHALL BE BROUGHT UP DURING THE BID PERIOD WITH THE PROJECT MANAGER FOR CLARIFICATION, NOT AFTER THE CONTRACT HAS BEEN AWARDED.
- LOCATION OF EQUIPMENT, CONDUIT AND DEVICES SHOWN ON THE DRAWINGS ARE APPROXIMATE AND SHALL BE COORDINATED WITH THE FIELD CONDITIONS PRIOR TO ROUGH-IN.
- THE CONDUIT RUNS AS SHOWN ON THE PLANS ARE APPROXIMATE. EXACT LOCATION AND ROUTING SHALL BE PER EXISTING FIELD CONDITIONS.
- PROVIDE PULL BOXES AND JUNCTION BOXES WHERE SHOWN OR WHERE REQUIRED BY NEC.
- CONDUIT BENDS SHALL BE THE RADIUS BEND FOR THE TRADE SIZE OF CONDUIT IN COMPLIANCE WITH THE LATEST EDITIONS OF NEC.
- INSTALL GROUNDING BUSHINGS ON ALL CONDUIT TERMINATIONS. THE GROUNDING BUSHING SHALL HAVE AN INSULATED THROAT.
- ALL CONDUCTORS SHALL BE TYPE THWN-2, SOLID, ANNEALED COPPER UP TO SIZE #10 AWG (#8 AND LARGER SHALL BE CONCENTRIC STRANDED) 75 DEGREES C, (167 DEGREES F). 98% CONDUCTIVITY, MINIMUM #12.
- ALL CONDUCTORS SHALL BE TAGGED AT BOTH ENDS OF THE CONDUCTOR. AT ALL PULL BOXES, J-BOXES, EQUIPMENT AND CABINETS AND SHALL BE IDENTIFIED WITH APPROVED PLASTIC TAGS, AND SHALL BE ACTION CRAFT, BRADY, OR APPROVED EQUAL.
- ALL MATERIALS SHALL HAVE A U.L. LABEL.
- CONDUIT INSTALLATION AND ROUTING SHALL BE COORDINATED WITH THE MECHANICAL CONTRACTOR TO AVOID CONFLICTS.
- ALL PANEL DIRECTORIES SHALL BE TYPEWRITTEN.
- INSTALL AN EQUIPMENT GROUNDING CONDUCTOR IN ALL CONDUITS IN COMPLIANCE WITH THE SPECIFICATIONS AND NEC. THE EQUIPMENT GROUNDING CONDUCTORS SHALL BE BONDED AT ALL JUNCTION BOXES, PULL BOXES, DISCONNECT SWITCHES, STARTERS, AND EQUIPMENT CABINETS.
- THE SUBCONTRACTOR SHALL PREPARE A COMPLETE SET OF AS-BUILT DRAWINGS, DOCUMENT ALL WIRING, EQUIPMENT CONDITIONS, AND CHANGES WHILE COMPLETING THIS CONTRACT. THE AS-BUILT DRAWINGS SHALL BE SUBMITTED AT COMPLETION OF THE PROJECT.
- ALL DISCONNECT SWITCHES AND CONTROLLING DEVICES SHALL BE PROVIDED WITH ENGRAVED LAMICOID NAMEPLATES INDICATING EQUIPMENT CONTROLLED, BRANCH CIRCUITS ID NUMBERING, AND THE ELECTRICAL POWER SOURCE.
- ALL ELECTRICAL DEVICES AND INSTALLATIONS OF THE DEVICES SHALL COMPLY WITH (ADAAG) AMERICANS WITH DISABILITIES ACT GUIDELINES.
- PROVIDE CORE DRILLING AS NECESSARY FOR PENETRATIONS TO ALLOW FOR RACEWAYS AND CABLES TO BE ROUTED THROUGH THE BUILDING. DO NOT PENETRATE STRUCTURAL MEMBERS. SLEEVES AND/OR PENETRATIONS IN FIRE RATED CONSTRUCTION SHALL BE EFFECTIVELY SEALED WITH FIRE RATED MATERIAL, WHICH SHALL MAINTAIN THE FIRE RATING OF THE WALL OR STRUCTURE. FIRE STOPS AT FLOOR PENETRATIONS SHALL PREVENT PASSAGE OF WATER, SMOKE, FIRE AND FUMES. ALL MATERIAL SHALL BE UL APPROVED FOR THIS PURPOSE.
- ALL EQUIPMENT (PROPOSED AND EXISTING) SHALL BE FIELD VERIFIED WITH THE OWNER'S REPRESENTATIVE AND EQUIPMENT SUPPLIER PRIOR TO INSTALLATION OF CONDUIT. ALL EQUIPMENT SHALL BE PROPERLY CONNECTED IN ACCORDANCE WITH THE MANUFACTURES SPECIFICATIONS.
- THE EQUIPMENT (THE DESIGN OF THESE PLANS ARE BASED UPON BEST AVAILABLE INFORMATION AT THE TIME OF DESIGN AND SOME EQUIPMENT MAY VARY FROM DESIGN AS SHOWN ON THESE DRAWINGS). LOCATION OF ALL OUTLETS SHALL BE CONFIRMED WITH THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
- EMERGENCY LIGHTING FIXTURE SHALL BE WALL MOUNTED AND BE POWERED FROM THE ROOM LIGHTING CIRCUIT AHEAD OF THE SWITCH. FIXTURE SHALL BE AS SPECIFIED ON THE FIXTURE SCHEDULE.
- ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL A 200 AMP, 120/240VAC SINGLE PHASE COMPACT GENERATOR INTERFACE PANEL BOX (BY MULTISTREAM POWER SYSTEMS - MICRIN TECHNOLOGIES #MTC8001EC-2 OR APPROVED EQUAL) IN A NEMA 3R, SURFACE MOUNTED ENCLOSURE.
- ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL A 120/240V, 1 PHASE, 200 AMP DISTRIBUTION PANEL COMBO MANUAL TRANSFER SWITCH (BY INTERSECT, INC. #AA1220061 OR APPROVED EQUAL), WITH SURGE SUPPRESSION PROTECTION AND SQUARE D 42-POSITION LOAD CENTER IN A NEMA 1 SURFACE MOUNTED ENCLOSURE.
- VERTICAL RACEWAYS SHALL BE SUPPORT PER N.E.C..
- VERTICAL CONDUCTORS SHALL BE SUPPORT PER N.E.C..
- LABEL GENERATOR RECEPTACLE AND SERVICE DISCONNECT THAT GENERATOR SERVICE IS POSSIBLE PER N.E.C..
- SIGNAGE SHALL BE PLACED WHERE THE GROUNDED CIRCUIT CONDUCTOR CONNECTS TO THE SERVICE GROUNDING ELECTRODE CONDUCTOR PER N.E.C..

SYMBOLS SCHEDULE	
SYMBOL	DESCRIPTION
S(M)	20A WALL SWITCH, SPEC GRADE, 120V/277V, (SURFACE MOUNT ON EXISTING WALLS) M-FRACT. HP STARTER SWITCH W/OVERLOADS
GFCI	DUPLEX 3 WIRE, 20A-120V GROUNDING RECEPTACLE SPEC. GRADE. GFCI - GROUND FAULT CIRCUIT INTERRUPTER
	QUAD 3-WIRE, 20A-120V GROUNDING RECEPTACLE, SPEC. GRADE.
J	JUNCTION BOX
	SURFACE MOUNTED DISTRIBUTION PANEL

FIXTURE SCHEDULE		
SYMBOL	LAMP	DESCRIPTION
1x4	2-F32T8 /SPX35	4'-0" - 3 LAMP FLUORESCENT SURFACE MOUNT, WRAP-AROUND LENS, 120V ENERGY EFFICIENT BALLAST WITH RADIO INTERFERENCE FILTER, LITHONIA F32 T8/SPX35
E	FURNISHED	WALL MOUNTED EMERGENCY LIGHT UNIT W/ BATTERY & TWO SEALED BEAM LAMPS LITHONIA-QUANTUM #6ELM2-120V-H
X	FURNISHED	SELF CONTAINED-LED EXIT LIGHT-CHARGER-SEALED GEL BATTERY-RED LETTERS LITHONIA #LQM-S-W-1-R-120/277-EL



**4TH FLOOR ELECTRICAL PLAN**  
 3/8"=1'-0" SCALE IF PRINTED AT 22X34  
 SCALE IS HALF IF PRINTED AT 11X17

**RED SWING GROUP**  
 4154 OLD WILLIAM PENN HWY  
 SUITE 300  
 MURRYSVILLE, PA 15668  
 OFFICE: 724.325.1215

AT&T  
 SITE NO.: P470  
 SITE NAME: EAST CARSON ST. (ROOF TOP)  
 1611 EAST CARSON STREET  
 PITTSBURGH, PA 15203

BACKS & VEATCH  
 750 HOLIDAY DRIVE  
 PITTSBURGH, PA 15220  
 (724) 361-8600

MOUNTAIN STATE COMMUNITY SERVICES  
 933 BEAVER CREEK RD.  
 CORAOPOLIS, PA 15108  
 (724) 806-8665

AT&T  
 SITE NO.: P470  
 SITE NAME: EAST CARSON ST. (ROOF TOP)  
 1611 EAST CARSON STREET  
 PITTSBURGH, PA 15203

AGREEMENT OF CONSULTING ENGINEER TO THE CONTRACTOR  
 THESE DRAWINGS DO NOT CONSTITUTE AN EXTENSION OF LEASE TERM.  
 THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF PITTSBURGH.  
 CLIENT NAME IS STRICTLY PROHIBITED. IT IS A VIOLATION OF LAW FOR ANY  
 PERSON TO REPRODUCE OR TRANSMIT THESE DRAWINGS OR ANY PART THEREOF  
 WITHOUT THE WRITTEN PERMISSION OF THE ENGINEER. TO ALTER THE DOCUMENT  
 WITHOUT THE WRITTEN PERMISSION OF THE ENGINEER.

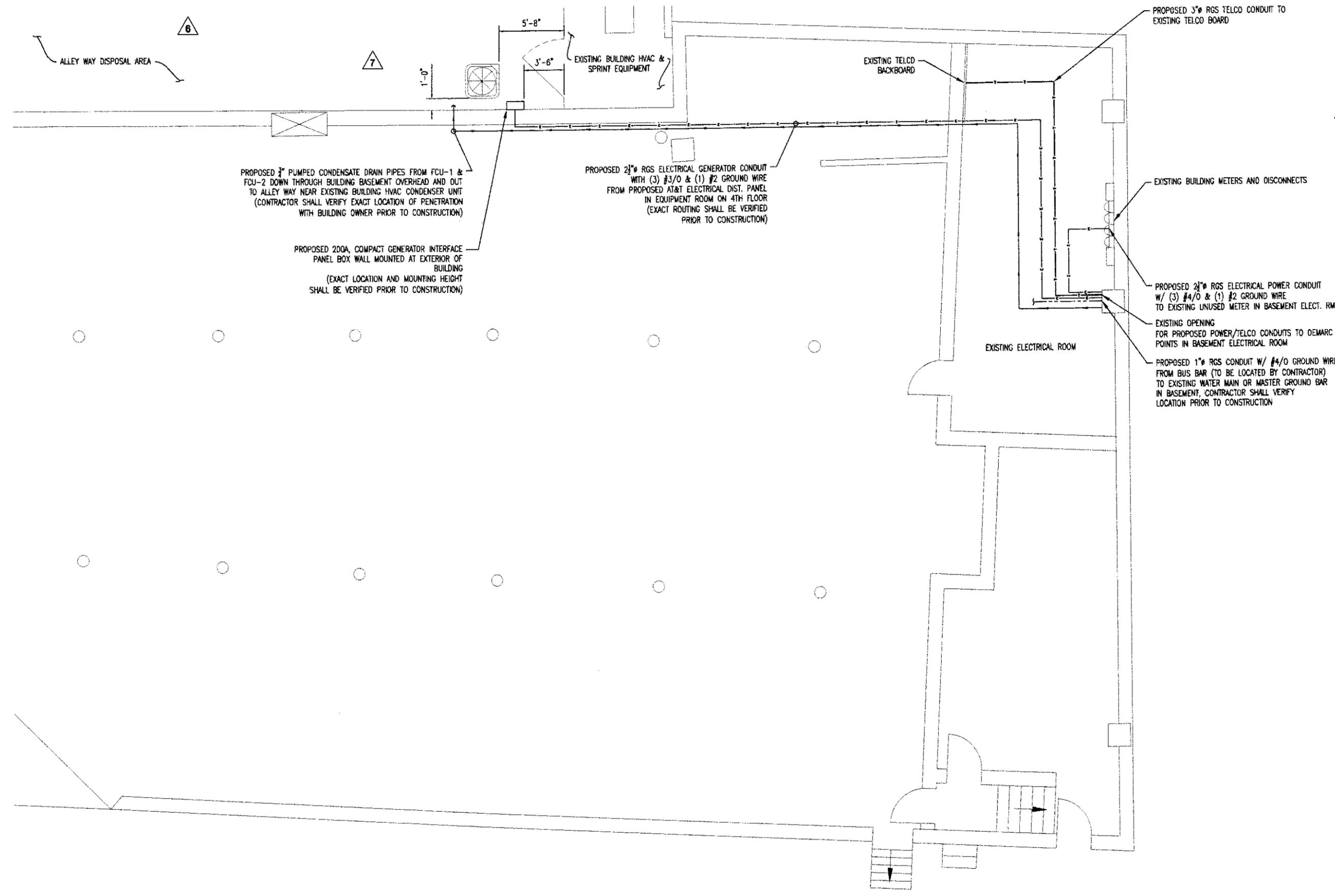
REVISIONS:	DATE	DESCRIPTION
7	3/8/2012	REVISED PER ELECTRICAL CODE RESOLUTIONMENT
6	2/9/2012	HVAC DESIGN ENHANCEMENTS
5	11/6/2012	ISSUED FOR CONSTRUCTION
4	10/2/2012	ISSUED FOR REVIEW
3	12/5/2011	REVISED PER COMMUNITY MEETING GROUP COMMENTS
2	8/24/2011	RELOCATED ANTENNAS MOUNTING LOCATIONS
1	8/15/2011	UPDATED EQUIPMENT ROOM DESIGN PER CLIENT COMMENTS
0	5/17/2011	ISSUED FOR CITY SUBMISSION
B	4/28/2011	ISSUED FOR CLIENT REVIEW
MARK		

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 APPROVED BY: MES

**SHEET TITLE:**  
**4TH FLOOR ELECTRICAL & GROUNDING PLAN**

SHEET NO. **E-1**

C:\Users\jld\Desktop\basement\_elec.dwg, 4/11/2011 10:57:41 AM, Plot Date: 4/11/2011 10:57:41 AM, Plot Scale: 1/4"=1'-0"



PROPOSED 3/4" PUMPED CONDENSATE DRAIN PIPES FROM FCU-1 & FCU-2 DOWN THROUGH BUILDING BASEMENT OVERHEAD AND OUT TO ALLEY WAY NEAR EXISTING BUILDING HVAC CONDENSER UNIT (CONTRACTOR SHALL VERIFY EXACT LOCATION OF PENETRATION WITH BUILDING OWNER PRIOR TO CONSTRUCTION)

PROPOSED 200A, COMPACT GENERATOR INTERFACE PANEL BOX WALL MOUNTED AT EXTERIOR OF BUILDING (EXACT LOCATION AND MOUNTING HEIGHT SHALL BE VERIFIED PRIOR TO CONSTRUCTION)

PROPOSED 2 1/2" RGS ELECTRICAL GENERATOR CONDUIT WITH (3) #3/0 & (1) #2 GROUND WIRE FROM PROPOSED AT&T ELECTRICAL DIST. PANEL IN EQUIPMENT ROOM ON 4TH FLOOR (EXACT ROUTING SHALL BE VERIFIED PRIOR TO CONSTRUCTION)

PROPOSED 3" RGS TELCO CONDUIT TO EXISTING TELCO BOARD

EXISTING BUILDING METERS AND DISCONNECTS

PROPOSED 2 1/2" RGS ELECTRICAL POWER CONDUIT W/ (3) #4/0 & (1) #2 GROUND WIRE TO EXISTING UNUSED METER IN BASEMENT ELECT. RM.

EXISTING OPENING FOR PROPOSED POWER/TELCO CONDUITS TO DEMARC POINTS IN BASEMENT ELECTRICAL ROOM

PROPOSED 1" RGS CONDUIT W/ #4/0 GROUND WIRE FROM BUS BAR (TO BE LOCATED BY CONTRACTOR) TO EXISTING WATER MAIN OR MASTER GROUND BAR IN BASEMENT. CONTRACTOR SHALL VERIFY LOCATION PRIOR TO CONSTRUCTION

**BASEMENT ELECTRICAL PLAN**  
 1/4"=1'-0" SCALE IF PRINTED AT 22X34  
 SCALE IS HALF IF PRINTED AT 11X17

1



**RED & SWING GROUP**  
 4154 OLD WILLIAM PENN HWY  
 SUITE 300  
 MURRYSVILLE, PA 15668  
 OFFICE: 724.325.1215



ARE SEAL:

BLACK & VEATCH  
 750 HOLIDAY DRIVE  
 SUITE 500  
 PITTSBURGH, PA 15220  
 (412) 381-6666

MOUNTAIN STATE  
 COMMUNITY WIRELESS  
 1000 STATE ST  
 PITTSBURGH, PA 15222  
 (412) 260-9000

**AT&T**  
 SITE NO.: P470  
 SITE NAME: EAST CARSON ST. (ROOF TOP)  
 1611 EAST CARSON STREET  
 PITTSBURGH, PA 15203

A CONSENT OR SIGNATURE BY THESE TO THE CONSTRUCTION DRAWINGS DOES NOT CONSTITUTE ALTERATION OF LEASE TERMS. CONTRACTOR SHALL VERIFY LOCATION OF ANY UTILITIES PRIOR TO CONSTRUCTION. ANY USE OR OCCUPANCY OTHER THAN THAT WHICH RELATES TO CLIENT NAME IS STRICTLY PROHIBITED. IT IS A VIOLATION OF LAW FOR ANY PERSON, PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

REVISIONS:	MARK	DATE	DESCRIPTION
7		3/8/2012	REVISED PER ELECTRICAL CODE RESOLUTION
6		2/9/2012	HVAC DESIGN ENHANCEMENTS
5		11/6/2011	ISSUED FOR CONSTRUCTION
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SHEET TITLE:  
**BASEMENT ELECTRICAL PLAN AND GENERATOR PLUG LOCATION PLAN**

SHEET NO.: **E-2**







**CONCRETE**

1. ALL MATERIALS, LABOR, AND METHODS SHALL CONFORM TO ALL APPLICABLE ASTM AND ACI STANDARDS AND REQUIREMENTS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INSURE THAT ALL STANDARDS ARE MET, AND TO BE ABLE TO PRODUCE THE VERIFICATION OF THESE ITEMS UPON REQUEST.
2. THE CONTRACTOR SHALL SCHEDULE ALL INSPECTIONS AT THE TESTING LABORATORY, AND INFORM BLACK & VEATCH WITHIN 24 HOURS OF THE INSPECTION OR TEST. THE TEST SHALL INCLUDE SLUMP, AIR ENTRAINMENT, TEMPERATURE, AND TEST CYLINDERS. A TOTAL OF FIVE CYLINDERS SHALL BE TAKEN DURING EACH POUR OR FOR EACH 50 YARDS IF THE POUR IS OVER 50 YARDS. THE FIRST CYLINDER SHALL BE BROKEN AT 3-1/2 DAYS, A SECOND AT 7 DAYS, A THIRD AT 14 DAYS AND A FOURTH AT 28 DAYS. THE LAST CYLINDER SHALL BE KEPT SEPARATELY FOR FUTURE USE IF NECESSARY.
3. ALL CONCRETE FOR THE PROJECT SHALL HAVE A 28-DAY STRENGTH OF 4,000 PSI AND A SLUMP OF 5" MAXIMUM WITH THE MIXTURE PROPORTIONS MEETING THE ASTM AND ACI REQUIREMENTS. ALL ADMIXTURES AND MATERIALS USED FOR THE CONCRETE MIXTURE SHALL ALSO CONFORM TO THE PROPER ASTM REQUIREMENTS.
4. THE CONTRACTOR SHALL INSTRUCT THE CONCRETE SUPPLIER TO HAVE AN APPROVED PLASTICIZER ON THE TRUCK TO AID IN THE POURING AND PLACING OF PIERS AND FOUNDATIONS.
5. AIR ENTRAINING AGENT SHALL BE USED IN ANY CONCRETE EXPOSED TO FREEZING TEMPERATURES.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EMBEDMENT LOCATIONS, SIZES, AND PROPER ANCHORING TO HOLD THE ITEMS IN PLACE ACCURATELY.
7. THE CONTRACTOR SHALL SUPPLY AND USE A RELEASING AGENT ON ALL FORMS.
8. ALL EXPOSED CONCRETE SHALL HAVE A UNIFORM FINISH AND BE SLOPED FOR DRAINAGE OFF THE SURFACE UNLESS OTHERWISE NOTED IN THE PLANS OR SPECIFICATIONS.
9. THE CONTRACTOR SHALL PROTECT THE CONCRETE FROM ANY ADVERSE WEATHER CONDITIONS; PREMATURE DRYING AND MECHANICAL INJURY TO INSURE PROPER CURING.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE USE AND CONTROL OF ANY MECHANICAL EQUIPMENT TO INSURE THE PROPER PLACEMENT OF THE CONCRETE TO PREVENT ANY VOIDS OR GAPS.

**METALS**

1. ALL LABOR, MATERIALS, FABRICATION AND WORKMANSHIP SHALL CONFORM TO THE CODES AND STANDARDS OF ASTM AND SINGULAR.
2. ALL WORK SHALL BE DONE BY A CERTIFIED WELDER. THE CONTRACTOR SHALL SUBMIT A COPY OF THE CERTIFICATION TO BLACK & VEATCH.
3. ALL STEEL USED SHALL BE HOT DIPPED GALVANIZED.
4. STRUCTURAL STEEL GRATING SHALL BE 1/4" x 3/16" GALVANIZED STEEL BAR GRATING (KG BORDEN TYPE-WB OR EQUAL) ATTACHED AT 1'-6" ON CENTER WITH GRATING CLAMPS, UNLESS NOTED OTHERWISE.

**ANTENNAS AND CABLES**

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER STORAGE AND HANDLING OF ALL MATERIALS ONCE THEY HAVE BEEN RELEASED FROM THE WAREHOUSE.
2. INSTALLATION OF ALL MATERIALS SHALL BE DONE IN STRICT ADHERENCE TO MANUFACTURER'S RECOMMENDATIONS.
3. TOWER TECHNICIANS SHALL BE CURRENT ANDREWS CERTIFIED FOR CABLE CONNECTOR INSTALLATIONS.
4. THE CONTRACTOR SHALL PERFORM THE SWEEP TESTING WITH A WILTRON METAL 330 OR EQUAL AND PROVIDE TWO COPIES TO BLACK & VEATCH. THE REQUIREMENTS FOR THE TESTING RESULTS SHALL BE ISSUED FROM BLACK & VEATCH PRIOR TO THE START OF THE PROJECT. THE CONTRACTOR SHALL FILL OUT THE FORM ON SHEET E-5 OF THIS DOCUMENT SET. (SEE PART 4)
5. THE CONTRACTOR SHALL REPLACE, AT HIS/HER EXPENSE, ANY CABLES, CONNECTORS, JUMPERS, PHASERS, AND ANY OTHER ITEMS OR MATERIALS THAT THE CONTRACTOR DAMAGES. IF A FAULTY PIECE OF MATERIAL OR EQUIPMENT IS FOUND, BLACK & VEATCH SHALL REPLACE IT, BUT THE CONTRACTOR IS RESPONSIBLE TO REINSTALL IT AT THE CONTRACTOR'S EXPENSE. IT IS STRONGLY RECOMMENDED THAT THE CONTRACTOR SWEEP ALL ITEMS PRIOR TO INSTALLATION.
6. THE FOLLOWING TABLE SHALL BE USED TO DETERMINE THE MINIMUM-BENDING RADIUS OF EACH CABLE:

ANTENNA TRANSMISSION LINE BENDING RADII		
DIAM. OF CABLE	LPF#	RADIUS
1/2	4	5"
7/8	5	10"
1-1/4	6	15"
1-5/8	7	20"

7. THE CONTRACTOR SHALL RUN ALL LINES AND CONDUITS IN A NEAT, ORDERLY AND STRAIGHT FASHION PROVIDING ANCHORING AS RECOMMENDED BY THE MANUFACTURER AND WHEREVER NECESSARY TO SUPPORT THE LINES PROPERLY.

**WARRANTIES**

1. THE CONTRACTOR SHALL WARRANTY ALL GENERAL WORK FOR A MINIMUM OF 18 MONTHS OR AS STATED ELSEWHERE IN THE CONTRACT.
2. ROOF WARRANTY: ALL WORK ON ROOFS SHALL BE PERFORMED IN FULL COMPLIANCE WITH THE ROOF MANUFACTURER AND CONTRACTOR SHALL OBTAIN WRITTEN VERIFICATION FROM ROOF MANUFACTURER THAT THE WARRANTY REMAINS VALID AFTER CONSTRUCTION IS COMPLETE.

**ELECTRICAL**

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITTING, FILING, AND FEES IN CONJUNCTION WITH THE PROJECT.
2. THE CONTRACTOR SHALL SCHEDULE ALL NECESSARY INSPECTIONS WITH THE PROPER AUTHORITIES AND INFORM BLACK & VEATCH 48- HOURS IN ADVANCE. ALL TICKETS AND INSPECTION VERIFICATIONS SHALL BE SUBMITTED TO BLACK & VEATCH WITHIN 24 HOURS AFTER THE INSPECTION HAS TAKEN PLACE.
3. ALL LABOR AND MATERIAL SHALL CONFORM TO ALL LOCAL, STATE, AND NATIONAL CODES, RULES, REGULATIONS AND STANDARDS.
4. ALL EQUIPMENT, WIRING, AND MATERIALS SHALL HAVE A UL LABEL.
5. ALL WORK SHALL BE DONE BY QUALIFIED AND EXPERIENCED JOURNEYMEN AND PERFORMED IN A WORKMANLIKE MANNER AND SHALL PROCEED IN AN ORDERLY MANNER SO AS NOT TO HOLD UP THE PROGRESS OF THE PROJECT.
6. THOROUGHLY TEST ALL LINES, FEEDERS, EQUIPMENT, AND DEVICES WITH MAXIMUM LOADS TO ASSURE PROPER OPERATION.
7. CONDUITS AND FITTINGS FOR OUTSIDE APPLICATIONS SHALL BE RIGID OR NON-METALLIC UNLESS OTHERWISE NOTED. CONDUITS AND FITTINGS FOR INSIDE BUILDING RUNS ABOVE CEILINGS SHALL BE EMT. SUPPORT ALL CONDUITS WITHIN 3 FEET OF ALL JUNCTION BOXES AND AT 8-FOOT INTERVALS OR LESS AS NEEDED WITH APPROVED ANCHORING DEVICES.
8. ALL WIRES SHALL BE COPPER; USE OF ALUMINUM CONDUCTORS SHALL NOT BE PERMITTED. SEE ELECTRICAL PLANS FOR SIZING AND LOCATIONS. USE PROPER SIZE CONNECTORS PER LOCAL, STATE, AND NATIONAL CODES.
9. CONDUCTOR LENGTHS SHALL BE CONTINUOUS FROM TERMINATION TO TERMINATION WITHOUT SPLICES.
10. PROVIDE PULL BOXES WHERE SHOWN AND WHERE REQUIRED BY CODES AND UTILITY COMPANIES.
11. ALL CONDUIT ROUGH IN SHALL BE COORDINATED WITH THE MECHANICAL EQUIPMENT TO AVOID LOCATION CONFLICTS. CONTRACTOR SHALL VERIFY ALL LOCATIONS.
12. ALL WIRES SHALL BE TAGGED AT ALL PULL BOXES, J-BOXES, EQUIPMENT BOXES, AND CABINETS WITH APPROVED PLASTIC TAGS.
13. ALL BREAKERS IN LOAD CENTER SHALL BE IDENTIFIED WITH TYPE WRITTEN LABELS NEATLY PLACED ALONG SIDE OF THE BREAKER.
14. ALL GROUND BUS BARS SHALL BE 1/4" x 4" x 20" UNLESS OTHERWISE NOTED AND SHALL BE TINNED COPPER AND LARGE ENOUGH TO ACCOMMODATE THE REQUIRED NUMBER OF GROUNDING CONNECTIONS. THE HARDWARE SECURING ALL GROUND BARS SHALL BOND THEM TO THE STRUCTURE TO WHICH THEY ARE FASTENED.
15. ANY PENETRATIONS THROUGH WALLS, CEILINGS, FLOORS, ROOFS OR ANY OTHER SURFACE SHALL BE CORE DRILLED AND CLOSED WITH A UL RATED FIRE SAFING ASSEMBLY. IF A FIRE RATING IS NOT REFERRED TO ON THE DRAWINGS, THEN THE CONTRACTOR SHALL ASSUME A 1-HOUR RATING.
16. THE MATERIALS AND EQUIPMENT INFORMATION ON THESE DRAWINGS IS BASED ON THE BEST AVAILABLE INFORMATION AT THE TIME THE DRAWINGS WERE ISSUED. CHANGES MAY OCCUR, AND THE CONTRACTOR SHALL VERIFY ALL ITEMS PRIOR TO PLACEMENT, AND MAKE ANY CORRECTIONS WITHOUT FURTHER COST TO BLACK & VEATCH.
17. ALL UNDERGROUND CONDUITS SHALL BE SCHEDULE 40 PVC. ALL SWEEPS OR BENDS, AND ABOVE-GROUND CONDUITS SHALL BE RIGID GALVANIZED STEEL OR PVC SCHEDULE 80. ALL CONDUITS NOT TERMINATING INTO A CLOSED AREA SHALL BE SEALED TO PREVENT ENTRY OF ANY MOISTURE OR FOREIGN OBJECTS. ALL CONDUIT RISERS TO INCLUDE SLIP TYPE EXPANSION JOINT.

**GROUNDING**

1. THE CONTRACTOR SHALL VERIFY WITH BLACK & VEATCH THAT ALL CONDUIT SYSTEMS, EQUIPMENT, DEVICES, PANELS, LINES, TRAYS, BRIDGES, PLATFORMS, AND ANY/ALL ITEMS ARE GROUNDED PROPERLY.
2. THE GROUNDING SYSTEM CONNECTIONS SHALL BE MADE WITH EXOTHERMIC WELDS AND/OR MECHANICAL TWO-LUG COMPRESSION CONNECTORS AS INDICATED ON PLANS. USE ONLY STAINLESS STEEL SCREWS, BOLTS WASHERS, AND NUTS FOR FASTENING.
3. CLEAN SURFACES THOROUGHLY BEFORE APPLYING GROUND LUGS OR CLAMPS. IF SURFACE IS COATED, THE COATING SHALL BE REMOVED DOWN TO THE BARE METAL. AFTER THE COATING HAS BEEN REMOVED, APPLY A NON-CORROSIVE APPROVED COMPOUND TO THE CLEANED SURFACE AND INSTALL LUGS OR CLAMPS. WHERE GALVANIZING IS REMOVED FROM METAL, IT SHALL BE PAINTED OR TOUCHED UP WITH COLD GALVANIZING PAINT SUCH AS GLAVMOX OR EQUAL.
4. ALL CLAMPS, SLEEVES, AND SUPPORTS USED TO SUPPORT OR CHANNEL THE GROUNDING SYSTEM CONDUCTORS AND PVC CONDUITS SHALL BE PVC TYPE NON-CONDUCTIVE. DO NOT USE METAL BRACKETS OR SUPPORTS THAT WOULD FORM A COMPLETE RING AROUND ANY GROUNDING CONDUCTOR.
5. ALL GROUNDING CONNECTIONS SHALL BE COATED WITH T&B KOPR SHIELD ANTI-CORROSIVE AGENT. NO SUBSTITUTIONS ARE PERMITTED. VERIFY THE PRODUCT WITH BLACK & VEATCH PRIOR TO USAGE.
6. GROUND THE ANTENNA BASES, FRAMES, CABLE TRAYS AND RACKS, AND ANY OTHER METALLIC COMPONENTS WITH #2 GROUNDING CONDUCTORS, AND CONNECT TO THE SURFACE-MOUNTED GROUND BARS. CONNECTION DETAILS SHALL BE PERFORMED PER THE MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
7. THE ANTENNA CABLES SHALL BE GROUNDED AT THE TOP AND BOTTOM OF THE VERTICAL RUN FOR LIGHTNING PROTECTION. THE ANTENNA CABLE SHIELD SHALL BE BONDED TO A COPPER GROUND BUS AT THE LOWERMOST POINT OF A VERTICAL RUN JUST BEFORE IT BEGINS TO BEND TOWARD THE HORIZONTAL PLANE. WIRE RUNS TO GROUND SHALL BE KEPT AS STRAIGHT AND SHORT AS POSSIBLE. THE ANTENNA CABLE SHIELD SHALL BE GROUNDED JUST BEFORE ENTERING THE CELL CABINET. ANY ANTENNA CABLES OVER 200 FEET IN VERTICAL LENGTH SHALL ALSO BE EQUIPPED WITH ADDITIONAL GROUNDING AT MID-POINT.
8. ALL INSTALLATIONS SHALL BE FIELD VERIFIED. THE GROUNDING PLAN SHOWN REPRESENTS THE MINIMUM ACCEPTABLE PER CLIENT SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR FINAL GROUNDING SYSTEM DESIGN SPECIFIC TO THIS SITE.
9. THE CONTRACTOR, UPON COMPLETION OF THE GROUNDING SYSTEM INSTALLATION, SHALL SCHEDULE A TEST OF THE SYSTEM. BLACK & VEATCH' REPRESENTATIVE SHALL BE INFORMED 48 HOURS IN ADVANCE OF THE TEST.

**PART 2 - PRODUCTS**

**2.1 GENERAL**

- A. GENERAL REQUIREMENTS: ALL MATERIALS AND EQUIPMENT SHALL BE IN ACCORDANCE WITH CONTRACT DOCUMENTS AND STANDARD PRODUCTS OF THE VARIOUS MANUFACTURERS, WITH ALL MATERIALS AND EQUIPMENT TO BE NEW, CLEAN, UNMATERIALIZED, AND FREE OF DEFECTS AND CORROSION.
- B. ACCEPTABLE PRODUCTS: THE PRODUCT OF A SPECIFIED OR APPROVED MANUFACTURER SHALL BE ACCEPTABLE ONLY WHEN THE PRODUCT COMPLIES WITH OR IS MODIFIED AS NECESSARY TO COMPLY WITH ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS.
- C. COMMON ITEMS: WHERE MORE THAN ONE OF ANY SPECIFIC ITEM IS REQUIRED, ALL SHALL BE OF THE SAME TYPE AND MANUFACTURER.
- D. UL LISTING: ALL MATERIALS AND EQUIPMENT SHALL BE UNDERWRITERS LABORATORIES (UL) LISTED AND LABELED, WHERE UL STANDARDS AND LISTINGS EXIST FOR SUCH MATERIALS OR EQUIPMENT.

**2.2 RACEWAY SYSTEMS**

- A. RACEWAY SIZING: AS REQUIRED BY NEC (MINIMUM) WITH OVERSIZED RACEWAYS AS INDICATED ON DRAWINGS. MINIMUM CONDUIT SIZE: 3/4 - INCH, UNLESS INDICATED OTHERWISE.
- B. RACEWAY TYPES: RIGID GALVANIZED STEEL CONDUIT, ELECTRICAL METALLIC TUBING (EMT), FLEXIBLE STEEL CONDUIT, LIQUID-TIGHT FLEXIBLE STEEL CONDUIT, SCHEDULE 40 HEAVY WALL, AND SCHEDULE 80 EXTRA- HEAVY WALL RIGID NON-METALLIC (PVC) CONDUIT, CONFORMING TO APPLICABLE ANSI, NEMA AND UL STANDARDS.
- C. FITTINGS: ALL RACEWAY FITTINGS (EXCEPT FOR RIGID NON-METALLIC CONDUIT) TO BE STEEL OR MALLEABLE IRON, AND UL-LISTED FOR THE INTENDED APPLICATION. EMT FITTING TO BE COMPRESSION TYPE.
- D. OUTLET BOXES (SURFACE MOUNTED): CADMIUM PLATED CAST OR MALLEABLE IRON.
- E. PULL AND JUNCTION BOXES AND WIREWAYS: USE AS INDICATED AND REQUIRED. JUNCTION BOXES FOR GENERAL INDOOR USE (DRY LOCATIONS) TO BE OF GALVANIZED CODE GAUGE STEEL CONSTRUCTION MINIMUM 4" SQUARE x 1 1/2" DEEP WITH SCREW-ON COVERS. WIREWAYS TO BE UL LISTED, SHEET STEEL CONSTRUCTION WITH SCREW-ON COVERS. FOR EXTERIOR AND DAMP OR WET INDOOR LOCATIONS, USE BOXES AND WIREWAYS APPROVED FOR SUCH USE.
- F. PIPE SLEEVES: RIGID STEEL CONDUIT OR IRON PIPE.

- G. CONDUIT SEALS FOR CAST-IN-PLACE CONCRETE APPLICATIONS - ACCEPTABLE MANUFACTURERS: 0-Z/GEDNEY TYPE "FSK"; THUNDERLINE CORPORATION "LINK SEAL" WITH "LINK SEAL WALL SLEEVE. FOR CORE-DRILLED AND PRE-CAST OPENING APPLICATIONS - ACCEPTABLE MANUFACTURERS: 0-Z / GEDNEY TYPE "CSML" THUNDERLINE CORP. "LINK SEAL" H. SWEEPS: ALL SWEEPS FOR COMMUNICATION EQUIPMENT OR INTO CONCRETE PAD SHALL BE MIN. 24" RADIUS.

**2.3 CONDUCTORS - 600 VOLT AND BELOW**

- A. GENERAL: SINGLE-CONDUCTOR 98% CONDUCTIVITY, ANNEALED, UNCOATED COPPER CONDUCTORS WITH 600-VOLT RATED TYPE "THHN/THWN" INSULATION.

- B. CONNECTORS: NYLON SHELL INSULATED METALLIC SCREW-ON CONNECTORS FOR #14-#10 AWG, AND BOLTED PRESSURE OR COMPRESSION TYPE LUGS AND CONNECTORS WITH INSULATING COVERS FOR #8 AWG AND LARGER.

**2.4 HANGERS AND SUPPORTS**

- A. GENERAL: ALL HANGERS, SUPPORTS, FASTENERS AND HARDWARE SHALL BE HOT-DIPPED GALVANIZED OR EQUIVALENT CORROSION RESISTANCE BY TREATMENT, AND SHALL BE MANUFACTURED PRODUCTS DESIGNED FOR THE APPLICATION.
- B. TYPES: HANGERS, STRAPS, RISER SUPPORTS, CLAMPS, U-CHANNEL, THREADED RODS, ETC. AS INDICATED OR REQUIRED.

**2.5 ELECTRICAL IDENTIFICATION**

- A. NAMEPLATES: THREE-LAYER LAMINATED PLASTIC WITH MINIMUM 3/16" HIGH WHITE ENGRAVED CHARACTERS ON BLACK BACKGROUND AND PUNCHED FOR MECHANICAL FASTENING.
- B. FASTENERS: SELF-TAPPING STAINLESS-STEEL SCREWS OF NUMBER 10-32 STAINLESS STEEL MACHINE SCREWS WITH NUTS AND FLAT LOCK WASHERS.
- C. UNDERGROUND WARNING TAPE: SIX-INCH WIDE POLYETHYLENE TAPE, PERMANENTLY BRIGHT COLORED WITH CONTINUOUS-PRINTED LEGEND INDICATING GENERAL TYPE OF UNDERGROUND LINE BELOW AND "CAUTION". COLORS AS FOLLOWS: 1) RED = ELECTRIC, 2) ORANGE = COMMUNICATIONS.
- D. MARKING PENS: PERMANENT, WATERPROOF, QUICK DRYING BLACK INK. ACCEPTABLE MANUFACTURERS: SANFORD FINE POINT "SHARPIE," OR EQUAL.

- E. WIRE TAGS: VINYL OR VINYL-CLOTH SELF-ADHESIVE WRAPAROUND TYPE INDICATING APPROPRIATE CIRCUIT NUMBER, ETC.

**2.6 ENCLOSURES**

- A. DRY LOCATION, INDOOR - NEMA 1.
- B. WET LOCATION OR OUTDOOR - NEMA 3R.

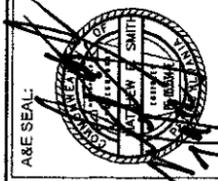
**2.7 GROUNDING**

- A. SYSTEM DESCRIPTION: GROUNDING NETWORK SYSTEM SHALL ESTABLISH AN EARTH-RESISTANCE TO THE REFERENCE GROUND POINT NOT TO EXCEED 5 OHMS FOR BUILDING, CONSISTING OF BONDING OF STRUCTURE AND OTHER METAL OBJECTS INCLUDING GROUNDING ELECTRODES AND INTERCONNECTING CONDUCTORS. THIS SHALL BE PERFORMED WITH THE 3 POINT TEST METHOD.

- B. MATERIAL - INDICATED AS FOLLOWING:
  1. WATER SERVICE METALLIC PIPE
  2. BUILDING STEEL



RED SWING GROUP  
4154 OLD WILLIAM PENN HWY  
SUITE 300  
MURRYSVILLE, PA 15068  
OFFICE: 724-325-1215



AME SEAL

BLACK & VEATCH  
700 HOLLY DRIVE  
SUITE 150  
PITTSBURGH, PA 15220  
(412) 387-8000

MIDWEST STATE  
COMMUNITY WIRELESS  
630 BANNER DRIVE, 1100  
COVINGTON, GA 30016  
(412) 686-1000



AT&T

SITE NO.: P470  
SITE NAME: EAST CARSON ST. (ROOF TOP)  
1611 EAST CARSON STREET  
PITTSBURGH, PA 15203

ADDITIONAL EDUCATION OR REGISTRY BY PARTIES TO THE CONSTRUCTION  
DRAWING DOES NOT CONSTITUTE ALTERATION OF THESE TERMS. THE  
BY HAVING ANY USE OR CONSULTING OTHER THAN THAT WHICH RELATES TO  
CLEARLY AND STRICTLY PROHIBITED. IT IS A VIOLATION OF LAW FOR ANY  
PERSON, FIRM OR CORPORATION TO REPRODUCE, TRANSMIT, OR OTHERWISE  
DISSEMINATE THIS DOCUMENT WITHOUT THE WRITTEN CONSENT OF THE  
PROFESSIONAL ENGINEER TO ALTER THIS DOCUMENT.

REVISIONS:	DATE	DESCRIPTION
1	11/02/2012	ISSUED FOR CONSTRUCTION
2	1/9/2012	ISSUED FOR REVIEW
3	12/26/2011	REVISED PER COMMUNITY MEETING GROUP COMMENTS
4	8/24/2011	RELOCATED ANTENNAS MOUNTING LOCATIONS
5	6/15/2011	UPDATED EQUIPMENT ROOM DESIGN PER CLIENT COMMENTS
6	5/17/2011	ISSUED FOR CITY SUBMISSION
7	4/28/2011	ISSUED FOR CLIENT REVIEW

PROJ. NO.: 1067  
SCALE: AS NOTED  
DATE: 4/11/2011  
DRAWN BY: JLD  
CHECKED BY: JLD  
APPROVED BY: MES

SHEET TITLE:  
**GENERAL NOTES**

SHEET NO.  
**GN-2**

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3. CONDUCTORS: COPPER STRANDED OR SOLID TINNED BARE SIZE AS INDICATED
4. GROUND RODS: 5/8" DIA. X 10'-0" LONG COPPER CLAO GROUND ROD
5. CHEMICAL GROUND RODS: XIT GROUND ROD 10'-0" STRAIGHT SHAFT TYPE
6. COMPRESSION: HYGROUND AS MANUFACTURED BY FCI BURNDY. CONNECTIONS SHALL BE PROTECTED FROM CORROSION AS MANUFACTURED BY ZRC CHEMICAL PRODUCTS CO., AS NEEDED.
7. CONNECTIONS: DOUBLE HOLE LUGS FOR ALL MECHANICAL CONNECTIONS.
8. EXOTHERMIC: CADWELD WITH PROPER MOLDS

### 2.8 SAFETY SWITCHES

- A. GENERAL: HEAVY DUTY HORSEPOWER RATED, FULLY ENCLOSED, FUSIBLE (WITH REJECTION FUSE CLIPS) OR NON-FUSED AS INDICATED, QUICK-MAKE, QUICK BREAK SWITCHING MECHANISM INTERLOCKED WITH COVER, AND NEMA1 ENCLOSURE FOR DRY LOCATIONS, AND NEMA 3R ENCLOSURE FOR OUTDOOR LOCATIONS, UNLESS INDICATED OTHERWISE. SWITCHES TO BE LABELED AS "SUITABLE FOR USE AS SERVICE ENTRANCE EQUIPMENT", WHERE REQUIRED.
- B. RATINGS: VOLTAGE, PHASES, AMPERAGES AND FUSING AS INDICATED.
- C. IN THE FUSED CONFIGURATION, SWITCHES SHALL HAVE AN INTERRUPTING CAPACITY OF AT LEAST 100,000 AMPS SYMMETRICAL AT SIX HUNDRED (600) VOLTS WHEN USED WITH CLASS RK5 TIME DELAY CURRENT LIMITING FUSES, AND 200,000 AMPS SYMMETRICAL AT 600 VOLTS WHEN USED WITH CLASS RK1 CURRENT LIMITING FUSES.
- D. GUARDS: LINE SHIELD GUARDS TO PREVENT CONTACT WITH LIVE PARTS.
- E. CONTACTS: SILVER ALLOY; SWITCH BLADES SHALL BE DE-ENERGIZED IN THE OPEN POSITION.
- F. LUGS: SOLDERLESS TYPE.
- G. REJECTION FUSE CLIPS: PROVIDE FOR FUSIBLE SWITCHES (30-600A) TO PREVENT THE INSTALLATION OF CLASS H AND CLASS K NON-CURRENT-LIMITING FUSES.
- H. ACCEPTABLE MANUFACTURER: GENERAL ELECTRIC, SQUARE D, SIEMENS.

### 2.9 FUSES

- A. UL CLASS RK1, 250 VOLT OR 600 VOLT AS REQUIRED FOR SYSTEM VOLTAGE, DUAL ELEMENT, TIME DELAY, CURRENT-LIMITING, 200,000 AIC, AMPERE RATINGS AS INDICATED. SIZE AND QUANTITY AS INDICATED ON POWER DIAGRAM.
- B. ACCEPTABLE MANUFACTURERS: BUSSMANN "FUSETRON", OR EQUAL BY FERRAZ SHAWMUT.

### 2.10 CIRCUIT BREAKERS

- A. GENERAL: MOLDED CASE WITH THERMAL AND MAGNETIC TRIPS UNLESS INDICATED OTHERWISE. MINIMUM 10,000 AMPS INTERRUPTING CAPACITY, HIGHER RATINGS AS INDICATED OR REQUIRED BY AVAILABLE FAULT CURRENT.
- B. CIRCUIT BREAKERS FOR EXISTING EQUIPMENT SHALL BE FROM THE SAME MANUFACTURER AS THE ORIGINAL EQUIPMENT.

### 2.11 LOAD CENTER / PANELBOARDS

- A. TWO-ROW CIRCUIT BREAKER WITH MAINS, RATINGS AND BRANCH DEVICES AS INDICATED.
- B. MINIMUM 10,000 AIC FOR 208V/240V UNLESS OTHERWISE NOTED.
- C. LOCKABLE COVER, COPPER BUS.
- D. LOAD CENTER SHALL HAVE MAIN CIRCUIT BREAKER (LOCKABLE IN ON & OFF POSITIONS).
- E. COPPER BUS BARS (ALUMINUM COMPONENTS IN ELECTRICAL DEVICES IS PROHIBITED), ISOLATED NEUTRAL BUS AND FULL SIZE GROUNDING BUS.
- F. ACCEPTABLE MANUFACTURERS: GE, SQUARE D, SIEMENS, OR EQUIVALENT.

### 2.12 DEVICES

- A. SWITCHES: 20AMP, 120-277 VOLTS, A.C. ONLY TOGGLE TYPE, SINGLE POLE, DOUBLE POLE, 3-WAY, OR 4-WAY TIMER STYLE AS INDICATED OR REQUIRED.
- B. RECEPTACLES: 20 AMP, 125V, NEMA 5-20V DUPLEX TYPE. FOR INDOOR MOUNTED, USE STAINLESS STEEL COVER. FOR OUTDOOR OR WET LOCATION MOUNTED, USE DEVICE RATED FOR USE. PROVIDE GFCI TYPE WITH SOLID STATE GROUND FAULT SENSING & 5 MA TRIP FOR OUTDOOR OR WET LOCATIONS.
- C. AUXILIARY POWER (GENERATOR INLET): PROVIDE 3-POLE, 4W, 125/250 VOLT FLANGED INLET, BACKBOX AND CLOSURE PLUG AT EXTERIOR OF BUILDING WALL (APPLETON #AJA20033-200RS WITH MATCHING BACKBOX AND CLOSURE PLUG).

### 2.13 CABLE TRAY

- A. PROVIDE A COMPLETE CABLE TRAY SYSTEM WITH BENDS, FITTINGS, ACCESSORIES, ETC. AS REQUIRED.
- B. DESCRIPTION: ALUMINUM ALLOY CONSTRUCTION. TYPE: LADDER WITH 12" MAXIMUM SPACING. DEPTH: MINIMUM 4". WIDTH: AS INDICATED ON DRAWINGS, (MINIMUM 12" HORIZONTAL RUNS, MINIMUM 6" VERTICAL RUNS). SUPPORT SPAN: 8 FOOT MINIMUM, UNLESS OTHERWISE NOTED. LOADING: 100 POUNDS/FOOT. RADIUS: 36" MINIMUM, (SMALLER RADIUS MAY BE PERMITTED IF APPROVED BY GENERAL DYNAMICS). COVER: VENTILATED .063 ALUMINUM, PROVIDE WHERE INDICATED.
- C. GROUNDING: BOND ALL TRAY SECTIONS USING #2 AWG BARE COPPER GROUND.
- D. ACCEPTABLE MANUFACTURERS: NEWTON INSTRUMENTS OR EQUIVALENT

### 2.14 SURGE SUPPRESSION

- A. PRODUCTS MANUFACTURED BY ATLANTIC SCIENTIFIC.
- B. FURNISHED BY BLACK & VEATCH. INSTALLED BY CONTRACTOR.

## PART 3 - EXECUTION

### 3.1 GENERAL

- A. THE INSTALLATION OF ALL WORK SHALL BE IN ACCORDANCE WITH THE INTENT OF THE CONTRACT DOCUMENTS.
- B. INSTALLATION REQUIREMENTS: ALL MATERIALS AND EQUIPMENT SHALL BE INSTALLED AS RECOMMENDED BY THE RESPECTIVE MANUFACTURERS, BY MECHANICS EXPERIENCED AND SKILLED IN THEIR TRADE, IN A NEAT AND WORKMANLIKE MANNER IN ACCORDANCE WITH THE STANDARDS OF THE TRADE, AND SO AS NOT TO VOID ANY WARRANTY OF UL LISTING.
- C. ADMINISTRATION AND SUPERVISION: ALL WORK SHALL BE PERFORMED UNDER THE CONTRACTOR'S DIRECT SUPERVISION, USING SUFFICIENT AND QUALIFIED PERSONNEL AS NECESSARY TO COMPLETE THE WORK IN ACCORDANCE WITH THE PROGRESS SCHEDULE. THE CONTRACTOR SHALL ASSIGN ONE OR MORE COMPETENT SUPERVISORS WHO SHALL HAVE AUTHORITY TO ACCEPT AND EXECUTE ORDERS AND INSTRUCTIONS, AND WHO SHALL COOPERATE WITH THE OTHER CONTRACTORS AND SUBCONTRACTORS, THE ENGINEER, AND BLACK & VEATCH IN ALL MATTERS TO RESOLVE CONFLICTS AND AVOID DELAYS.
- D. MINIMUM MOUNTING HEIGHT: INSTALL EXPOSED RACEWAY AND ALL OTHER EQUIPMENT (EG. LIGHTING FIXTURES) WITH NOT LESS THAN 7'-6" CLEAR TO FINISHED FLOOR, UNLESS INDICATED OR APPROVED OTHERWISE, AND EXCLUDING RACEWAY AND EQUIPMENT MOUNTED ON WALLS.
- E. DIMENSIONS AND CLEARANCES: FIELD MEASURE ALL DIMENSIONS AND CLEARANCES AFFECTING THE INSTALLATION OF ELECTRICAL WORK, IN RELATION TO ESTABLISHED DATUM, BUILDING OPENINGS AND CLEARANCES, AND WORK OF OTHER TRADES, AS CONSTRUCTION PROGRESSES.

### 3.2 EXAMINATION

- A. CONDITIONS VERIFICATION: EXAMINE THE AREAS AND CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED, AND IDENTIFY ANY CONDITIONS DETRIMENTAL TO THE PROPER AND TIMELY COMPLETION OF THE WORK. DO NOT PROCEED UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.

### 3.3 COORDINATION

- A. GENERAL: SEQUENCE, COORDINATE AND INTEGRATE THE INSTALLATION OF ALL MATERIALS AND EQUIPMENT FOR EFFICIENT FLOW OF WORK, IN CONJUNCTION WITH THE OTHER TRADES. REVIEW THE DRAWINGS FOR WORK OF THE OTHER TRADES, AND REPORT AND RESOLVE ANY DISCOVERED DISCREPANCIES, PRIOR TO COMMENCING WORK.
- B. COOPERATION: COOPERATE WITH THE OTHER CONTRACTORS AND INDIVIDUAL DISCIPLINES FOR PLACEMENT, ANCHORAGE, AND ACCOMPLISHMENT OF THE WORK. RESOLVE INTERFERENCES BETWEEN WORK OF OTHER DISCIPLINES OR CONTRACTORS PRIOR TO COMMENCING INSTALLATION.
- C. SUPPORTS AND SLEEVES: COORDINATE THE INSTALLATION OF REQUIRED SUPPORTING DEVICES AND SLEEVES TO BE SET IN POURED-IN-PLACE CONCRETE AND OTHER STRUCTURAL COMPONENTS, AS THEY ARE CONSTRUCTED.
- D. OBSTACLES AND INTERFERENCES: WHEN INSTALLING EQUIPMENT AND RACEWAYS, PROVIDE OFFSETS, FITTINGS, ACCESSORIES, AND CHANGES IN ELEVATION OR LOCATION AS NECESSARY TO AVOID OBSTACLES AND INTERFERENCES, PER ACTUAL FIELD CONDITIONS.

### 3.4 EQUIPMENT PROTECTION

- A. PROTECT ALL EQUIPMENT, MATERIALS, AND WORK FROM THE WEATHER ELEMENTS, PAINT, MORTAR, CONSTRUCTION DEBRIS AND DAMAGE, UNTIL PROJECT IS SUBSTANTIALLY COMPLETE. REPAIR, REPLACE, CLEAN, AND RETURN TO ORIGINAL CONDITION ALL DAMAGED AREAS, EQUIPMENT, UTILITIES, ETC., AND WORK SO AFFECTED.

### 3.5 LAYOUT

- A. GENERAL: INSTALL MATERIALS AND EQUIPMENT LEVEL AND PLUMB, AND PARALLEL AND PERPENDICULAR TO OTHER BUILDING SYSTEMS AND COMPONENTS, WHERE INSTALLED EXPOSED.
- B. SERVICEABILITY: INSTALL EQUIPMENT AND RACEWAYS, ETC. TO READILY FACILITATE SERVICING, MAINTENANCE, AND REPAIR OR REPLACEMENT OF COMPONENTS, AND SO AS TO MINIMIZE INTERFERENCE WITH OTHER EQUIPMENT AND INSTALLATIONS.
- C. CLEARANCES: PRIOR TO COMMENCING WORK, VERIFY THAT ALL EQUIPMENT WILL ADEQUATELY FIT AND CONFORM TO THE INDICATED AND CODE REQUIRED CLEARANCES, IN THE SPACES INDICATED ON THE DRAWINGS. IF REARRANGEMENT IS REQUIRED, SUBMIT PLAN AND ELEVATION DRAWINGS OR SKETCHES INDICATING PROPOSED REARRANGEMENT, FOR THE ENGINEER'S APPROVAL. DO NOT REARRANGE WITHOUT EXPRESSED WRITTEN PERMISSION OF THE ENGINEER.

- D. RIGHT-OF-WAY: WHEN LAYING OUT WORK, GIVE FIRST PRIORITY TO COMMUNICATIONS WIRING, AND NEXT PRIORITY TO STEAM AND CONDENSATE LINES, SANITARY LINES, DRAIN LINES, FIRE PROTECTION PIPING, AND SHEET METAL DUCT WORK. PROVIDE OFFSETS AS REQUIRED TO AVOID CONFLICTS. RESOLVE ALL CONFLICTS BEFORE COMMENCING INSTALLATION.

### 3.6 MOUNTING HEIGHTS

- A. GENERAL: INDICATED HEIGHTS ARE MEASURED FROM THE CENTER OF THE DEVICE OUTLET BOX TO THE FINISHED FLOOR OR GRADE, UNLESS INDICATED OTHERWISE. REQUEST INSTRUCTIONS FOR MOUNTING HEIGHTS NOT INDICATED.
- B. DEVICES: SWITCHES - 48" A.F.F. | RECEPTACLES - 18" A.F.F. | THERMOSTAT - 48" A.F.F.

### 3.7 HOLES, SLEEVES, AND OPENINGS

- A. GENERAL: PROVIDE ALL HOLES, SLEEVES, AND OPENINGS REQUIRED FOR THE COMPLETION OF WORK, AND RESTORE ALL DAMAGED SURFACES TO MATCH SURROUNDING SURFACES. MAINTAIN INTEGRITY OF ALL FIRE AND SMOKE RATED BARRIERS USING APPROVED FIRESTOPPING SYSTEMS. WHEN CUTTING HOLES OR OPENINGS, OR INSTALLING SLEEVES, DO NOT CUT, DAMAGE OR DISTURB STRUCTURAL ELEMENTS OR REINFORCING STEEL, UNLESS APPROVED IN WRITING BY THE PROJECT STRUCTURAL ENGINEER.
- B. CONDUIT PENETRATIONS: SIZE CORE DRILLED HOLES SO THAT AN ANNULAR SPACE OF NOT LESS THAN 1/4" AND NOT MORE THAN 1" IS LEFT AROUND THE CONDUIT. WHEN OPENINGS ARE CUT IN LIEU OF CORE DRILLED, PROVIDE SLEEVE IN ROUGH OPENING. SIZE SLEEVES TO PROVIDE AN ANNULAR SPACE OF NOT LESS THAN 1/4" AND NOT MORE THAN 1" AROUND THE CONDUIT, PIPE, ETC. PATCH AROUND SLEEVE TO MATCH SURROUNDING SURFACES.

### 3.8 RACEWAY SYSTEMS

- A. UNLESS INDICATED OTHERWISE, USE RACEWAY TYPES AS FOLLOWS:
  - 1) OUTDOORS, EXPOSED: RIGID GALVANIZED STEEL CONDUIT AND SUNLIGHT RESISTANT SCHEDULE 40, WHERE NOT SUBJECT TO PHYSICAL DAMAGE.
  - 2) LIQUID TIGHT FLEXIBLE STEEL CONDUIT: USE WHERE FLEXIBLE STEEL CONDUIT CONNECTIONS ARE REQUIRED IN DRY, DAMP, WET, OR OILY LOCATIONS, FOR CONNECTIONS TO TRANSFORMERS, VIBRATING EQUIPMENT, EQUIPMENT REQUIRING MINOR ADJUSTMENTS IN POSITIONS, AND FOR FINAL CONNECTIONS TO ALL MOTORS AND SIMILAR EQUIPMENT.
- B. RACEWAY ROUTING: AS REQUIRED BY JOB CONDITIONS UNLESS SPECIFIC ROUTES OR DIMENSIONED POSITIONS ARE INDICATED ON THE DRAWINGS. INSTALL TIGHT TO SLAB, BEAMS, AND JOISTS WHEREVER POSSIBLE. ROUTE EXPOSED CONDUIT, AND CONDUIT INSTALLED ABOVE CEILINGS, PARALLEL OR PERPENDICULAR TO WALLS, CEILINGS, AND STRUCTURAL MEMBERS. INSTALL TO MAINTAIN MINIMUM HEADROOM AND TO PRESENT A NEAT APPEARANCE. RUN PARALLEL RACEWAYS TOGETHER WITH BENDS MADE FROM THE SAME CENTERLINE. VERIFY EXACT LOCATIONS OF ALL RACEWAYS, PULL BOXES, AND JUNCTION BOXES. RESOLVE ANY CONFLICTS BEFORE INSTALLATION. DO NOT INSTALL HORIZONTAL CONDUIT RUNS BELOW 7'-6" AFF IN EXPOSED LOCATIONS.
  - 1) DO NOT ROUTE ANY CONDUITS INTO OR THROUGH, STAIRWAYS, ELEVATOR SHAFTS OR ELEVATOR MACHINE ROOM.
  - 2) CONCEAL CONDUITS ABOVE SUSPENDED CEILINGS WHERE POSSIBLE.
  - 3) COORDINATE ALL CONDUIT STUB UPS WITH ROOF TOP EQUIPMENT LAYOUT.
  - 4) COORDINATE INSTALLATIONS OF CONDUITS, EQUIPMENT, ETC. WITH BUILDING OWNER PRIOR TO COMMENCEMENT OF WORK.

- C. RACEWAY INSTALLATION: CUT CONDUIT ENDS SQUARE USING SAW OR PIPECUTTER AND REAM EACH CUT END SMOOTH. CAREFULLY MAKE ALL CONDUIT BENDS AND OFFSETS SO THAT THE INSIDE DIAMETER OF PIPE IS NOT REDUCED. MAKE BENDS SO THAT LEGS ARE IN THE SAME PLANE. MAKE OFFSETS SO THAT LEGS ARE IN THE SAME PLANE AND PARALLEL. PROTECT STUB-UPS FROM DAMAGE, AND CAREFULLY REBEND WHEN NECESSARY.
- D. FITTINGS: MAKE UP ALL RACEWAY FITTINGS TIGHT SO THAT FINAL INSTALLATION OF RACEWAY, FITTINGS AND ENCLOSURES CONSTITUTES A FIRM MECHANICAL ASSEMBLY AND A CONTINUOUS ELECTRICAL CONTINUITY. PROVIDE INSULATING BUSHINGS ON CONDUIT TERMINATIONS.

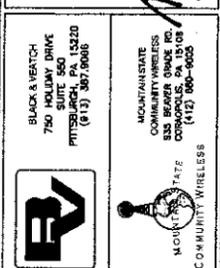
- E. PROTECTION: PROTECT ALL RACEWAYS, ENCLOSURES AND EQUIPMENT DURING CONSTRUCTION TO PREVENT ENTRY OF CONCRETE, DEBRIS AND OTHER FOREIGN MATTER. FREE CLOGGED CONDUITS OF ALL OBSTRUCTIONS, OR REPLACE PRIOR TO PULLING WIRE. DO NOT PULL WIRE WITHIN BUILDINGS UNTIL BUILDINGS ARE COMPLETELY ENCLOSED.
- F. BOXES: INSTALL ALL OUTLET PULL AND JUNCTION BOXES RIGIDLY, PLUMB AND LEVEL. SUPPORT AND SECURE BOXES INDEPENDENTLY FROM CONDUITS TERMINATING AT BOX. INSTALL ALL BOXES SO AS TO BE ACCESSIBLE AND SO THAT COVERS MAY BE EASILY REMOVED.
- G. PROVIDE CAP TO PREVENT ENTRY OF MATERIALS AND MOISTURE FOR ALL SPARE CONDUITS.

- H. CONDUIT SEALS: INSTALL CONDUIT SEAL FOR EACH CONDUIT PENETRATING AT AN EXTERIOR BUILDING WALL, BELOW GRADE (UNLESS PENETRATION IS BELOW LOWEST BUILDING FLOOR SLAB), AND ELSEWHERE AS INDICATED, AND SO AS TO ACHIEVE A SEALED WATERTIGHT INSTALLATION.

- I. RIGID GALVANIZED STEEL CONDUIT SHALL BE USED IN AREAS SUBJECT TO PHYSICAL DAMAGE. CUT ENDS SHALL BE REAMED, THREADED AND COLD GALVANIZED (COMPRESSION FITTINGS WILL NOT BE ACCEPTED).

### 3.9 CONDUCTORS - 600 VOLT AND BELOW

- A. MINIMUM CONDUCTOR SIZE: ALL BRANCH CIRCUIT WIRING SHALL BE MINIMUM #12 AWG. FEEDER CIRCUIT WIRING SHALL BE MINIMUM #2 AWG UNLESS OTHERWISE NOTED. ALL CONTROL CIRCUIT WIRING SHALL BE MINIMUM #14 AWG, UNLESS INDICATED OTHERWISE. PROVIDE LARGER SIZES, AS INDICATED OR REQUIRED. A FULL SIZED EQUIPMENT GROUNDING CONDUCTOR SHALL BE INSTALLED IN POWER AND LIGHTING CONDUITS, (CONDUITS SHALL NOT BE USED AS A GROUNDING CONDUCTOR).
- B. IN RACEWAY: INSTALL ALL WIRING IN CONDUIT OR OTHER SPECIFIED RACEWAY, UNLESS INDICATED OTHERWISE. ROMEX, BX, AC AND MC TYPE CABLES ARE NOT ALLOWED.
- C. TERMINATIONS: FURNISH AND INSTALL TERMINATIONS INCLUDING LUGS IF NECESSARY TO MAKE ALL ELECTRICAL CONNECTIONS INDICATED OR REQUIRED. EXTERIOR AND SWITCHGEAR TERMINATIONS SHALL HAVE AN ANTI-OXIDANT APPLIED. SPRING TYPE WIRE CONNECTORS USED IN EXTERIOR BOXES SHALL BE SILICONE FILLED.



AT&T  
 SITE NO.: P470  
 EAST CARSON STREET (ROOF TOP)  
 1611 EAST CARSON STREET  
 PITTSBURGH, PA 15203

REVISIONS:	DATE	DESCRIPTION
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 DRAWN BY: JLD  
 CHECKED BY: JLD  
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SHEET TITLE:  
**GENERAL NOTES**  
 SHEET NO.  
**GN-3**





# AT&T

## SITE NUMBER: P470

## SITE NAME: EAST CARSON STREET

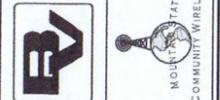
EXISTING ±63'-0" BUILDING ROOF TOP

**RED SWING GROUP**  
 4154 OLD WILLIAM PENN HWY  
 SUITE 300  
 MURRYSVILLE, PA 15668  
 OFFICE: 724.325.1215



**BLACK & VEATCH**  
 750 HUNTING DRIVE  
 SUITE 300  
 PITTSBURGH, PA 15220  
 (412) 387-9006

**MOUNTAIN STATE COMMUNITY WIRELESS**  
 935 BEAVER CREEK RD.  
 COALBURG, WV 26038  
 (121) 668-9006



### PROJECT INFORMATION

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 2630 LIBERTY AVENUE  
 PITTSBURGH, PA 15222

**SITE ACQUISITION:** SITE ACQUISITION SOLUTIONS  
 JIM AULD  
 PHONE: (412) 559-0785

**TURF CONTRACT HOLDER:** BLACK & VEATCH  
 PETER McMILLEN  
 PHONE: (412) 759-0674

**ENGINEER:** RED SWING GROUP  
 MATTHEW E. SMITH, P.E.  
 PHONE: (724) 325-1215

**SITE OWNER(S):** LANGHOLZ WILSON ELLIS, INC.  
 606 LIBERTY AVENUE, SUITE 300  
 PITTSBURGH, PA 15222-2721  
 PHONE: (412) 261-7119

**SITE ADDRESS:** 1611 EAST CARSON STREET  
 PITTSBURGH, PA 15203

**COUNTY:** ALLEGHENY

**LATITUDE:** N40°25'44.22"

**LONGITUDE:** W-79°58'56.37"

**EXISTING GROUND ELEVATION:** 756.37± AMSL

**PROPOSED AT&T RAD. CENTER:** 60'-10"± & 69'-9"± AGL, 817.20± & 826.12± AMSL

### PROJECT DESCRIPTION

INSTALL NEW UNMANNED EQUIPMENT WITH ELECTRIC AND TELCO SERVICE, AND PROPER GROUND SYSTEM. MOUNT ANTENNAS AND NECESSARY COAX ON EXISTING ROOF TOP/STRUCTURE.

### NOTICE

CONTRACTOR SHALL VERIFY ALL PLANS & EXISTING DIMENSIONS & CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH ANY WORK OR MATERIAL ORDERS OR BE RESPONSIBLE FOR SAME. DO NOT SCALE DRAWINGS. THESE DRAWINGS MAY NOT SHOW ALL UNDERGROUND PIPING AND UTILITIES. THE CONTRACTOR SHALL EXERCISE EXTREME CARE DURING ALL CONSTRUCTION ACTIVITIES.

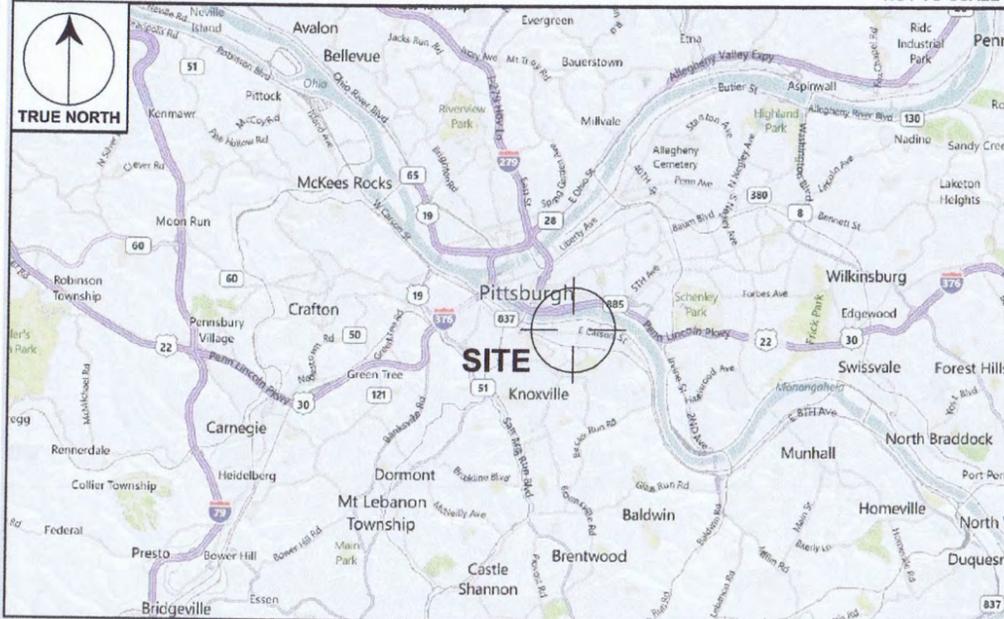
### LEGEND

AMSL = ABOVE MAIN SEA LEVEL  
 AGL = ABOVE GROUND LEVEL  
 TYP = TYPICAL

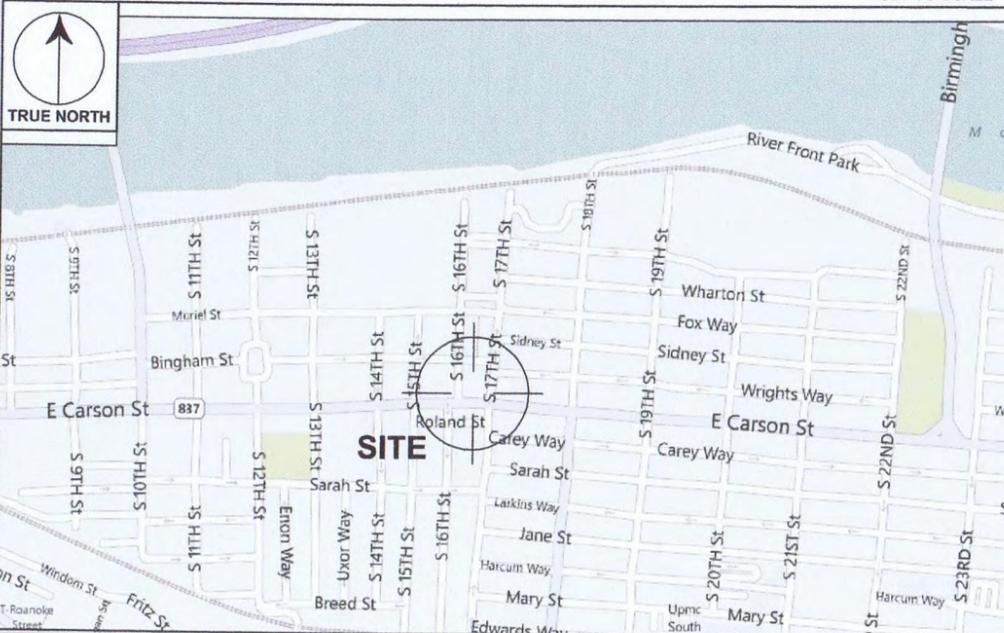
### DIRECTIONS

1. AT 1611 EAST CARSON STREET PITTSBURGH, PA 15203 START OUT GOING SOUTHWEST ON LIBERTY AVE TOWARD 26TH ST.
2. STAY STRAIGHT TO GO ONTO GRANT ST.
3. TURN LEFT ONTO FORBES AVE.
4. TURN RIGHT ONTO S 10TH ST / ARMSTRONG TUNNEL. CONTINUE TO FOLLOW S 10TH ST.
5. TURN LEFT ONTO E CARSON ST / PA-837.
6. 1611 E CARSON ST PITTSBURGH, PA 15203-1703 IS ON THE LEFT.

### VICINITY MAP



### AERIAL LOCATION MAP



### APPROVAL LIST

TITLE	SIGNATURE	DATE
AT&T RF ENGINEER		
BLACK & VEATCH		
AT&T		
SITE OWNER		

ACKNOWLEDGEMENT OR "SIGN-OFF" BY PARTIES TO THE CONSTRUCTION DRAWINGS DOES NOT CONSTITUTE ALTERATION OF LEASE TERMS.

### SHEET INDEX

SHEET NO.	SHEET TITLE	REVISION HISTORY	
		REV. NO.	DATE
T-1	TITLE SHEET	8	7/9/2012
C-1	ROOF PLAN	8	7/9/2012
C-2	4TH FLOOR EQUIPMENT LAYOUT PLAN & DETAILS	8	7/9/2012
C-3	BUILDING ELEVATIONS	8	7/9/2012
C-4	COAXIAL & CONDUIT SUPPORT DETAILS	5	1/16/2012
C-5	CONSTRUCTION DETAILS	5	1/16/2012
C-6	RET/UMTS CONFIGURATIONS	5	1/16/2012
C-7	COAXIAL COLOR CODING	5	1/16/2012
M-1	MECHANICAL PLANS & NOTES	7	3/8/2012
E-1	4TH FLOOR ELECTRICAL & GROUNDING PLAN	7	3/8/2012
E-2	BASMENT ELECTRICAL PLAN AND GENERATOR PLUG LOCATION PLAN	7	3/8/2012
E-3	TELCO INTERFACE SCHEMATIC	5	1/16/2012
G-1	GROUNDING DETAILS	5	1/16/2012
S-1	FRAMING PLAN, SECTIONS & DETAILS	1	3/2/2012
S-2	ENLARGED FRAMING PLANS & SECTIONS	1	3/2/2012
GN-1	GENERAL NOTES	5	1/16/2012
GN-2	GENERAL NOTES	5	1/16/2012
GN-3	GENERAL NOTES	5	1/16/2012
GN-4	GENERAL NOTES	5	1/16/2012
GN-5	GENERAL NOTES	5	1/16/2012

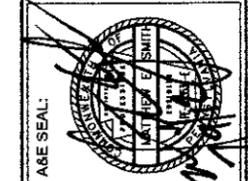
AT&T  
 SITE NO.: P470  
 SITE NAME: EAST CARSON ST. (ROOF TOP)  
 1611 EAST CARSON STREET  
 PITTSBURGH, PA 15203

REVISIONS:	DATE	DESCRIPTION
8	7/9/2012	REVISED ALPHA SECTOR & EQUIPMENT ROOM
7	3/8/2012	REVISED PER ELECTRICAL CODE RESOLUTION
6	2/9/2012	HVAC DESIGN ENHANCEMENTS
5	1/16/2012	ISSUED FOR CONSTRUCTION
4	1/16/2012	ISSUED FOR REVIEW
3	12/25/2011	REVISED PER COMMUNITY MEETING GROUP COMMENTS
2	8/24/2011	RELOCATED ANTENNA MOUNTING LOCATIONS
1	6/15/2011	UPDATED EQUIPMENT ROOM DESIGN PER CLIENT COMMENTS
0	5/17/2011	ISSUED FOR CITY SUBMISSION
B	4/28/2011	ISSUED FOR CLIENT REVIEW

PROJ NO: 1067  
 SCALE: AS NOTED  
 DATE: 4/11/2011  
 DRAWN BY: JLD  
 CHECKED BY: JLD  
 APPROVED BY: MES

SHEET TITLE:  
**TITLE SHEET**

SHEET NO.  
**T-1**



BACK & FRONT DRIVE  
 750 SUITE 300  
 PITTSBURGH, PA 15220  
 (412) 367.4000

COMMUNITY WIRELESS  
 400 STATE ST. SUITE 100  
 PITTSBURGH, PA 15222  
 (412) 367.4000

**AT&T**  
 SITE NO.: P470  
 SITE NAME: EAST CARSON ST. (ROOF TOP)  
 1611 EAST CARSON STREET  
 PITTSBURGH, PA 15203

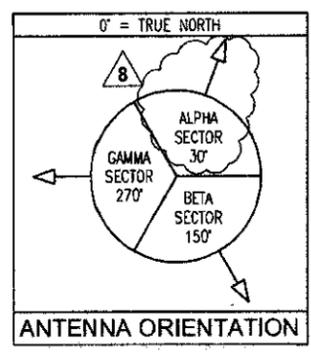
COMMUNITY WIRELESS  
 400 STATE ST. SUITE 100  
 PITTSBURGH, PA 15222  
 (412) 367.4000

REVISIONS:	DATE	DESCRIPTION
8	7/19/2012	REVISED ALPHA SECTOR & EQUIPMENT ROOM
7	3/8/2012	REVISED PER ELECTRICAL CODE RESOLUTION
6	2/9/2012	HVAC DESIGN ENHANCEMENTS
5	1/18/2012	ISSUED FOR CONSTRUCTION
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 DRAWN BY: JLD  
 CHECKED BY: JLD  
 APPROVED BY: MES

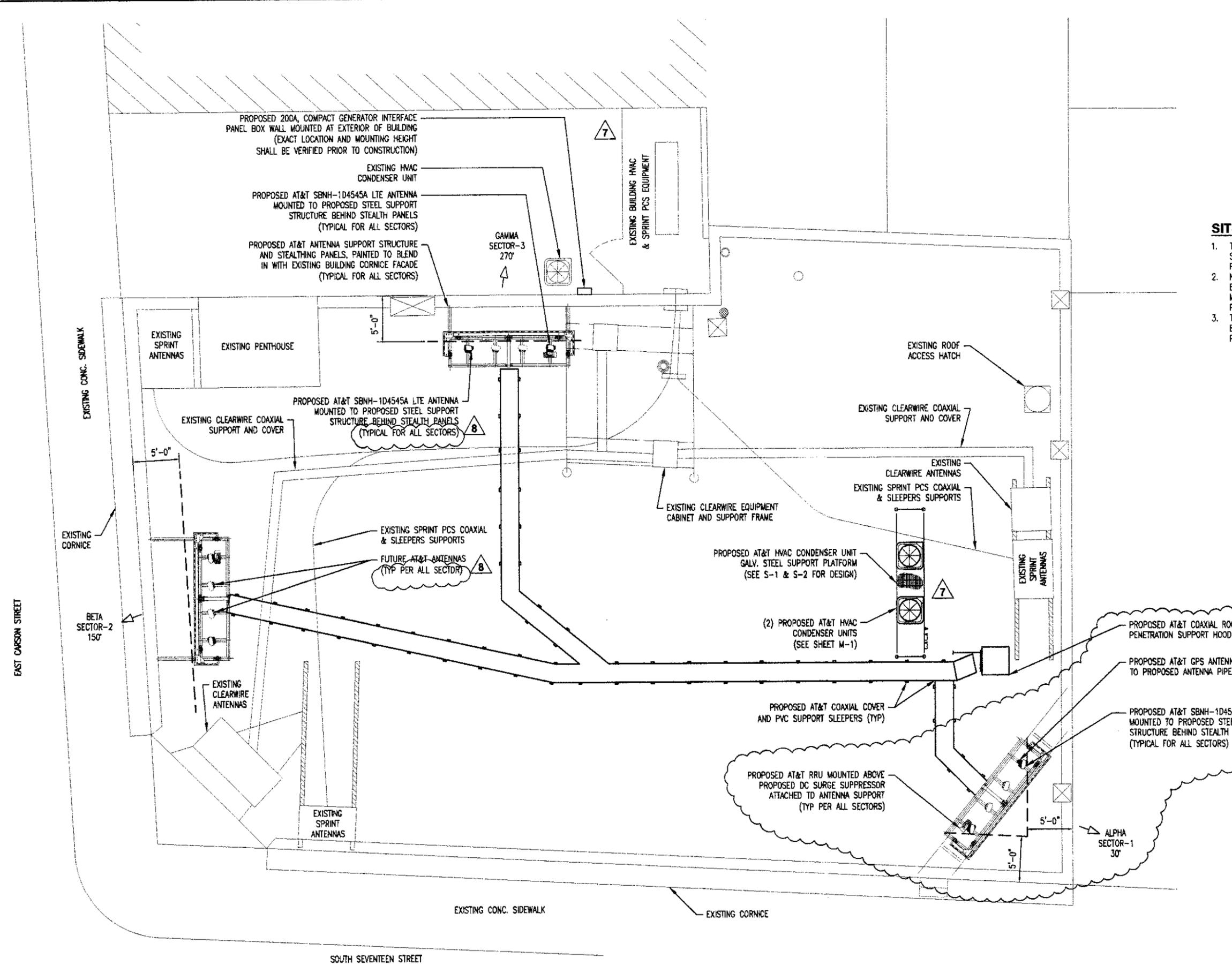
SHEET TITLE:  
**ROOF PLAN**

SHEET NO.  
**C-1**

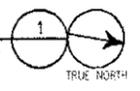


**SITE WORK GENERAL NOTES:**

1. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE PCS EQUIPMENT AND TOWER AREAS.
2. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
3. THE SUBGRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.



**ROOF PLAN**  
 3/16" = 1'-0" SCALE IF PRINTED AT 22X34  
 SCALE IS HALF IF PRINTED AT 11X17

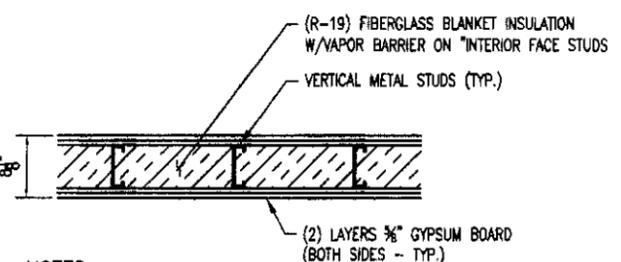


C:\Users\jld\Desktop\equipment\work\drawings\p470\_Rev8\_CD\dwg\p470\_Rev8\_CD.dwg, Plot Date: 04/08/2012, 5:08pm

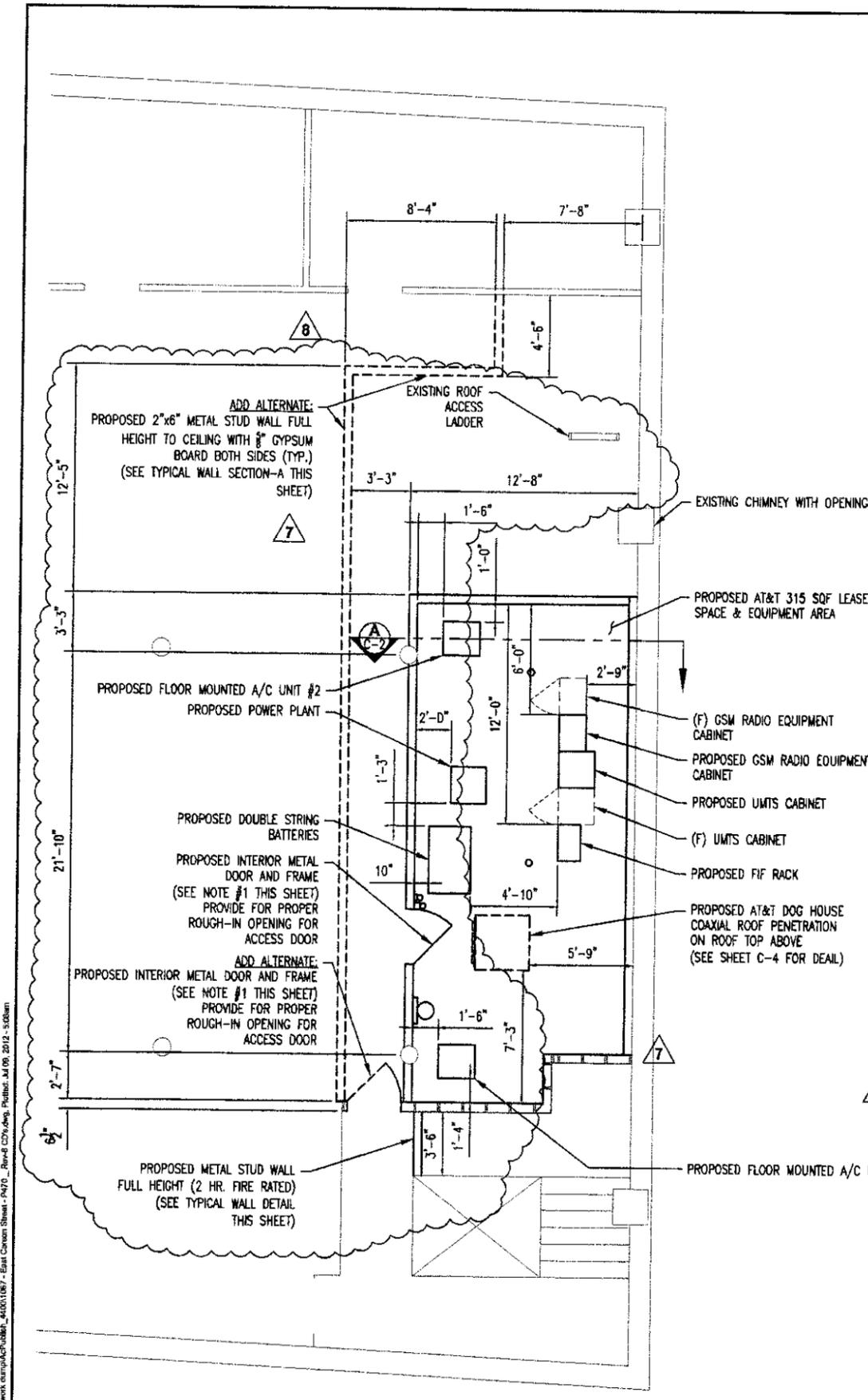
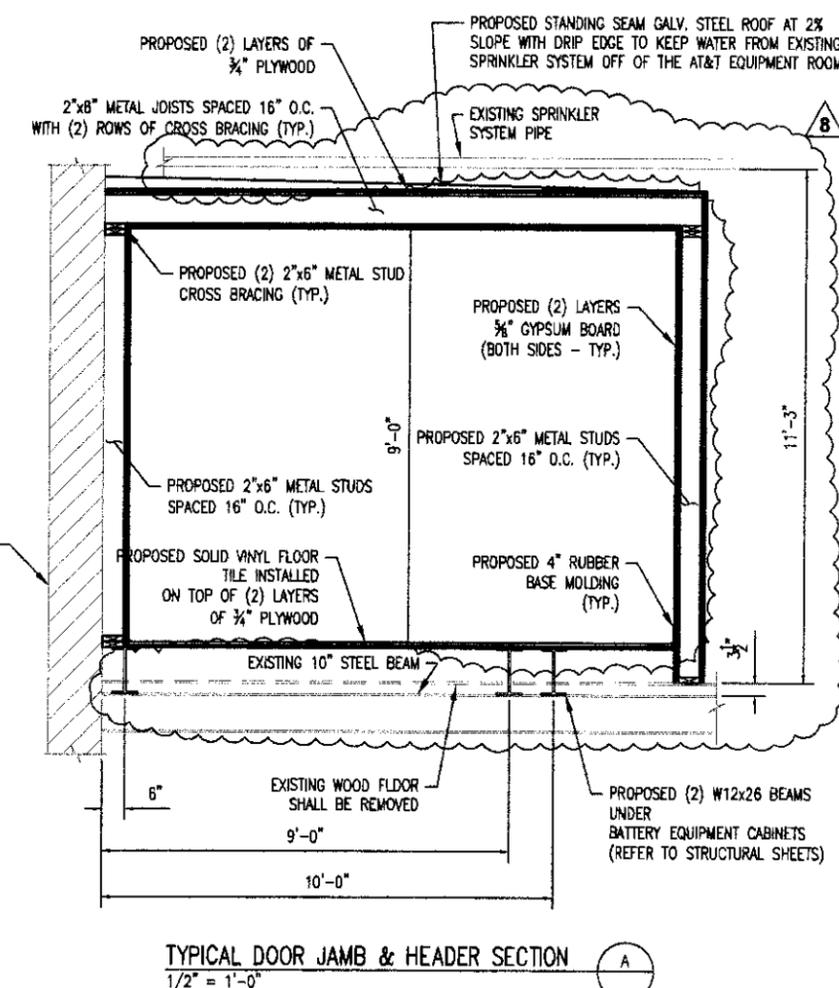
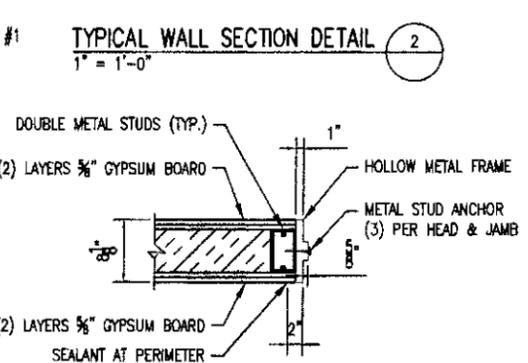
**EQUIPMENT ROOM NOTES:**

- INTERIOR HOLLOW METAL DOOR & FRAME SHALL BE PROVIDED AND INSTALLED. THE UNIT SHALL BE A 3'-0"x7'-0"x1 1/2" DOOR AND FRAME. DOOR AND FRAME SHALL BE FABRICATED OF MIN. 16 GAGE HOT DIP GALVANIZED SHEET STEEL, WITH CLOSED TOP AND BOTTOM EDGES BEING AN INTEGRATED PART OF THE WELDED DOOR CONSTRUCTION. THE DOOR MUST COMPLY WITH SDI (STEEL DOOR INSTITUTE) 100 FOR DOOR AND FRAME FABRICATION AND INSTALLATION. MOUNT HARDWARE IN ACCORDANCE WITH SDI 100. THE DOOR HARDWARE SHALL BE AS SHOWN BELOW:
  - 1 1/2" PAIR BALL BEARING HINGES
  - 1 EACH - LOCKING LATCHES - SIMPLEX ACCESS CONTROL ILCOM UNICAN SERIES 1021 W/LEVER DOOR HANDLE (CORE TO MATCH BUILDING KEYING SYSTEM) - 260.
  - 1 EACH - DOOR CLOSER
  - 2 EACH - 8" KICK PLATE ON EACH SIDE OF DOOR
  - 1 SET - WEATHER-STRIPPING
  - 1 EACH - DOOR BOTTOM
  - 1 EACH - THRESHOLD
- CEILING AND WALL PENETRATIONS SHALL BE SEALED FOR MECHANICAL, ELECTRICAL AND TELEPHONE EQUIPMENT SUPPLIES, CABLES AND CONDUITS IN NEW FIRE RATED FLOORS, CEILING AND WALLS AFFECTED BY THE WORK. THE FIRE RATING OF THE PENETRATION SEAL SHALL BE AT LEAST THAT OF THE FLOOR OR WALL INTO WHICH IT IS INSTALLED. CONTRACTOR SHALL FURNISH AND INSTALL FIRE STOP SYSTEMS AND ASSEMBLIES PER MANUFACTURERS RECOMMENDATIONS AND SPECIFICATIONS AND PROVIDE (WHERE REQUIRED) A FIRE STOPPING WORKSHEET TO ALL AGENCIES WHICH GOVERN OVER THE LAND(S) ON WHICH CONSTRUCTION IS TO BE PERFORMED.
- CONTRACTOR SHALL PROVIDE ALL LABOR, EQUIPMENT AND MATERIAL FOR THE PROPER LIFTING AND SETTING OF THE RADIO EQUIPMENT CABINET(S) FROM THE TRANSPORT TRUCK BED TO THE FINAL POSITION IN THE RADIO EQUIPMENT ROOM. CONTRACTOR SHALL BE RESPONSIBLE FOR ATTACHING OR SECURING ANY ACCESSORY OR LOOSE ITEMS THAT ARE SHIPPED WITH THE RADIO EQUIPMENT CABINET(S) AND SHALL INCLUDE THIS WORK IN THE BUILDING INSTALLATION PORTION OF THE BID. (COORDINATE WITH EQUIPMENT MANUFACTURER ON ALL SPECIFICATIONS).
- CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFICATION AND COORDINATION OF ALL GOVERNING AGENCIES THAT REQUIRE SITE INSPECTION OF THE WORK AND/DR SIMPLY NOTIFICATION.
- CONTRACTOR SHALL FURNISH AND INSTALL A VINYL COMPOSITION FLOOR TILE WHICH SHALL BE 12" SQUARE (3/8" THICK) AND A 4" RUBBER BASE MOLDING (0.080" THICK) WITHIN EQUIPMENT ROOM AREA. (MANUFACTURED BY VINYL PLASTICS, INC. OR APPROVED EQUAL) COLORS TO BE SELECTED AT TIME OF AWARD.
- THE COMPLETED RADIO EQUIPMENT ROOM SHALL BE AIR TIGHT. A PRESSURE ROOM INTEGRITY TEST SHALL BE PERFORMED PER REQUIREMENTS OF THE LATEST EDITION NFPA (BS15014520-1). ANY LEAKS DETECTED DURING THIS TEST SHALL BE SEALED BY THE SUBCONTRACTOR AND THE ROOM RETESTED.
- EQUIPMENT ROOM DESIGN LOADS:
 

RADIO EQUIPMENT WEIGHTS:	
BATTERIES (DOUBLE STACK)	6540 LBS.
RECTIFIER	800 LBS.
GSM CABINET	800 LBS. (EACH)
UMTS FRAME W/EQUIPMENT	500 LBS.
FIF RACK	150 LBS.
FAN COIL UNIT	200 LBS. (EACH)
- CONTRACTOR SHALL REPAIR ALL EXISTING FLOOR, ROOF, CEILING AND WALL SURFACES AND FINISHES DISTURBED DURING THE GENERAL CONSTRUCTION PHASES FOR THE WORK ON THIS PROJECT. CONTRACTOR SHALL PROVIDE ALL LABOR AND MATERIALS AS REQUIRED TO RESULT IN A SMOOTH FINISH SURFACE TO MATCH EXISTING SITE CONDITIONS WITH THE APPROVAL OF THE BUILDING OWNER.



- NOTES:**
- DOUBLE STUDS AT CORNERS AND COAXIAL ENTRY LOCATIONS.
  - CONTRACTOR SHALL PROVIDE AND INSTALL (2)-LAYERS OF 5/8" TYPE 'X' WATER RESISTANT GYPSUM BOARD ON BOTH SIDES OF THE 3"x18"x18 GAUGE CJS METAL STUDS AT 16" O.C. BRACE STUDS LATERALLY AT MAX. INTERVALS OF 48" O.C. WITH 1 1/2" COLD ROLLED CHANNELS INSERTED THROUGH THE STUD WEB HOLES AND SECURED WITH SCREWS ATTACHED OR WELDED CLIP ANGLES AT EACH STUD. PROVIDE VAPOR BARRIER ON THE INTERIOR SIDE OF THE METAL STUDS. EXTEND GYPSUM BOARD TIGHT TO DECK (SEAL WITH LATEX FIRE CAULK). DESIGN NO. U425 - WALL RATING 2 HOURS



**RED SWING GROUP**  
4154 OLD WILLIAM PENN HWY  
SUITE 300  
MURRYSVILLE, PA 15068  
OFFICE: 724-326-1215

---

ASE SEAL: JAMES A. SMITH, P.E.  
COMMUNITY WIRELESS

---

BUCK'S VECTOR ENGINEERING  
750 STATE ST  
PITTSBURGH, PA 15220  
(412) 387-8000

---

COMMUNITY WIRELESS  
1611 EAST CARSON STREET  
PITTSBURGH, PA 15203  
(412) 784-0000

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**AT&T**  
SITE NO.: P470  
SITE NAME: EAST CARSON ST. (ROOF TOP)  
1611 EAST CARSON STREET  
PITTSBURGH, PA 15203

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REVISIONS:	DATE	DESCRIPTION
8	7/9/2012	REVISED ALPHA SECTIONS & EQUIPMENT ROOM
7	3/9/2012	REVISED PER ELECTRICAL CODE RESOLUTION
6	2/9/2012	HVAC DESIGN ENHANCEMENTS
5	1/16/2012	ISSUED FOR CONSTRUCTION
4	1/9/2012	ISSUED FOR REVIEW
3	1/9/2011	REVISED PER COMMUNITY MEETING GROUP COMMENTS
2	8/24/2011	RELOCATED ANTENNAS MOUNTING LOCATIONS
1	6/15/2011	UPDATED EQUIPMENT ROOM DESIGN PER CLIENT COMMENTS
0	5/17/2011	ISSUED FOR CITY SUBMISSION
B	4/28/2011	ISSUED FOR CLIENT REVIEW

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PROJ NO: 1097  
SCALE: AS NOTED  
DATE: 4/11/2011  
DRAWN BY: JLD  
CHECKED BY: JLD  
APPROVED BY: MES

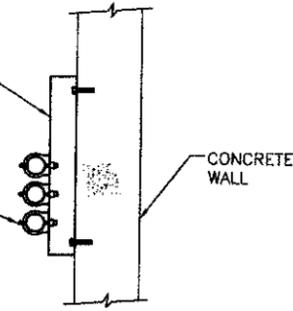
**SHEET TITLE:**  
4TH FLOOR EQUIP. LAYOUT PLAN & DETAILS

**SHEET NO.**  
C-2



UNISTRUT P1000 X 12<sup>2</sup>  
 @ 4' O.C. MAX. ATTACH  
 W/ (2) 3/8"Ø (MIN.  
 EMB DEPTH = 1  
 5/8")

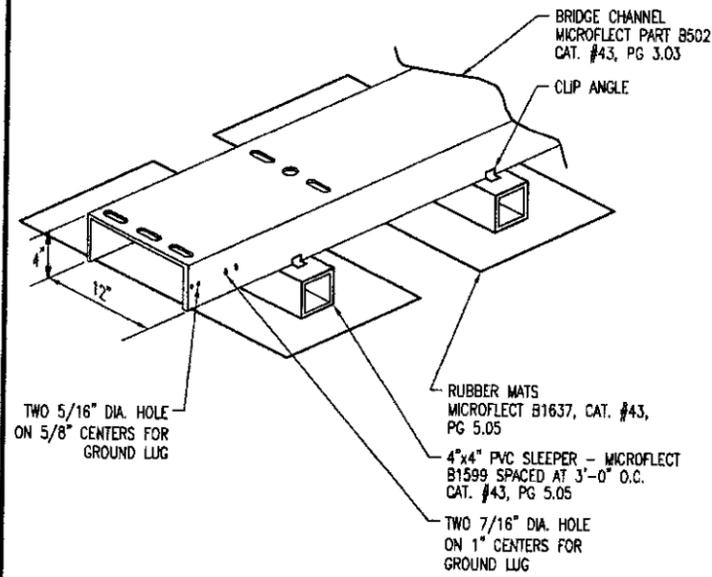
ANTENNA CABLE W/  
 NON INSULATED  
 HANGERS



VERTICAL COAXIAL SUPPORT  
 NO SCALE

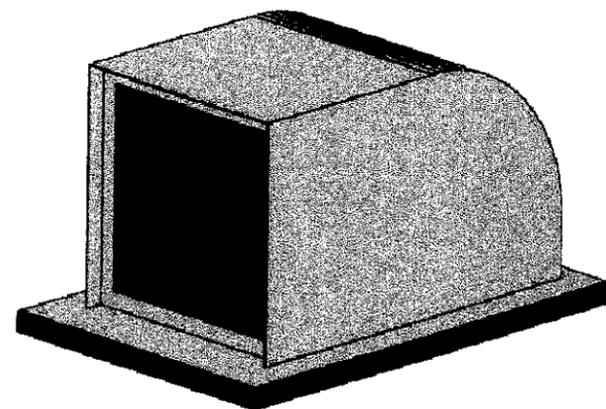
1

NOTE:  
 1. FOR PASSING OVER EXISTING  
 CABLE TRAYS, MOUNT MULTIPLE  
 SLEEPERS UNDER BRIDGE AS  
 REQ'D TO PROVIDE FULL SUPPORT



ANTENNA COAXIAL SUPPORT  
 NO SCALE

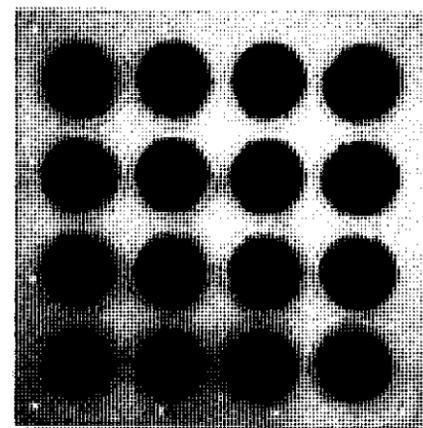
3



NOTE:  
 USE SITE PRO 1 PART (SP365G)  
 OR APPROVED EQUIAL.

ROOF TOP COAXIAL HOOD ENTRY  
 NOT TO SCALE

4

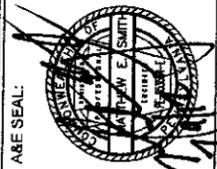


NOTE:  
 USE SITE PRO 1 PART (E1447)  
 OR APPROVED EQUIAL.

COAXIAL ENTRY PANEL  
 NOT TO SCALE

5

**REDXII  
 SWING  
 GROUP**  
 4154 OLD WILLIAM PENN HWY  
 SUITE 300  
 MURKYSVILLE, PA 15668  
 OFFICE: 724-325-1215



BLACK & VEATCH  
 750 HOLIDAY DRIVE  
 SUITE 500  
 PITTSBURGH, PA 15203  
 (412) 387-8000



COMMUNICATE  
 832 BEAVER CREEK RD  
 COMPTON, PA 15106  
 (412) 866-1000



AT&T  
 SITE NO.: P470  
 SITE NAME: EAST CARSON ST. (ROOF TOP)  
 1611 EAST CARSON STREET  
 PITTSBURGH, PA 15203

ACKNOWLEDGMENT OF REGISTERED PROFESSIONAL ENGINEER TO THE CONTRACTOR:  
 THE ENGINEER DOES NOT CONSTITUTE ALTERATION OF THESE TERMS.  
 BY FAILURE ANY USE OR DISREGARD OF THESE TERMS IS UNLAWFUL AND THE  
 CLIENT WAIVES STRICT LIABILITY. IT IS A VIOLATION OF LAW TO ANY  
 PERSON, PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

REVISIONS:	MARK	DATE	DESCRIPTION
ISSUED FOR CONSTRUCTION		1/18/2012	
ISSUED FOR REVIEW	5	1/19/2012	
REVISED PER COMMUNITY MEETING COMMENTS	4	12/5/2011	
RELOCATED ANTENNAS MOUNTING LOCATIONS	3	9/24/2011	
UPDATED EQUIPMENT ROOM DESIGN PER CLIENT COMMENTS	2	6/15/2011	
ISSUED FOR CITY SUBMISSION	1	5/17/2011	
ISSUED FOR CLIENT REVIEW	0	4/28/2011	

PROJ NO: 1067  
 SCALE: AS NOTED  
 DATE: 4/11/2011  
 DRAWN BY: JLD  
 CHECKED BY: JLD  
 APPROVED BY: MES

SHEET TITLE:  
**COAXIAL &  
 CONDUIT  
 SUPPORT  
 DETAILS**

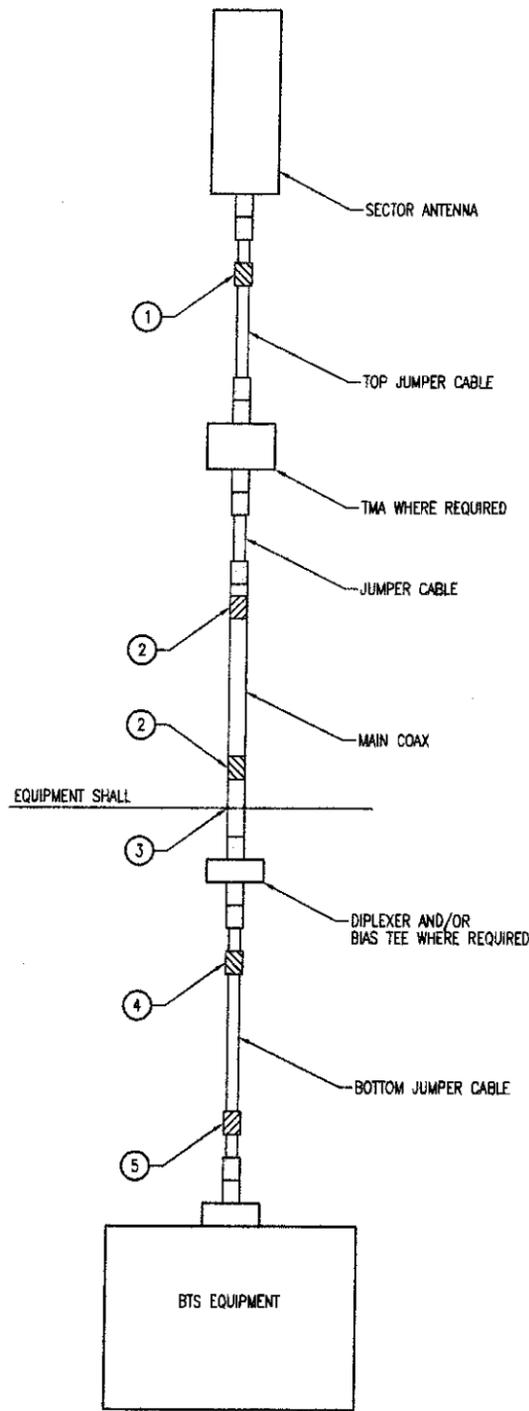
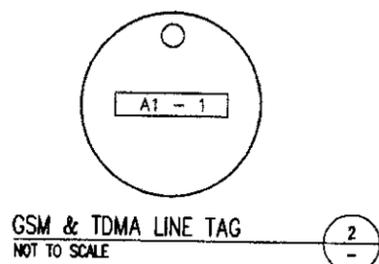
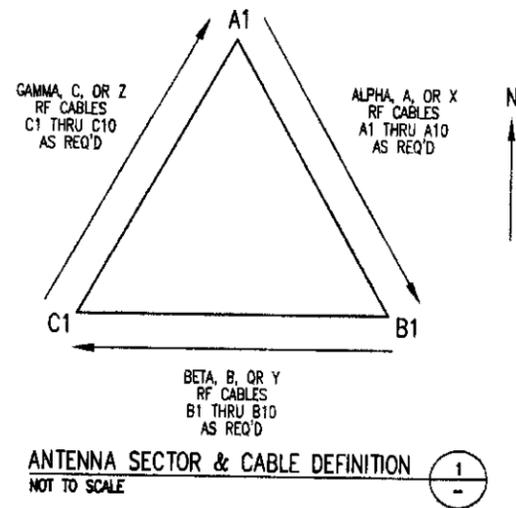
SHEET NO.  
**C-4**





**COAX COLOR CODING & IDENTIFICATION NOTES:**

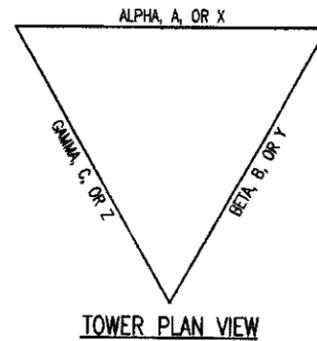
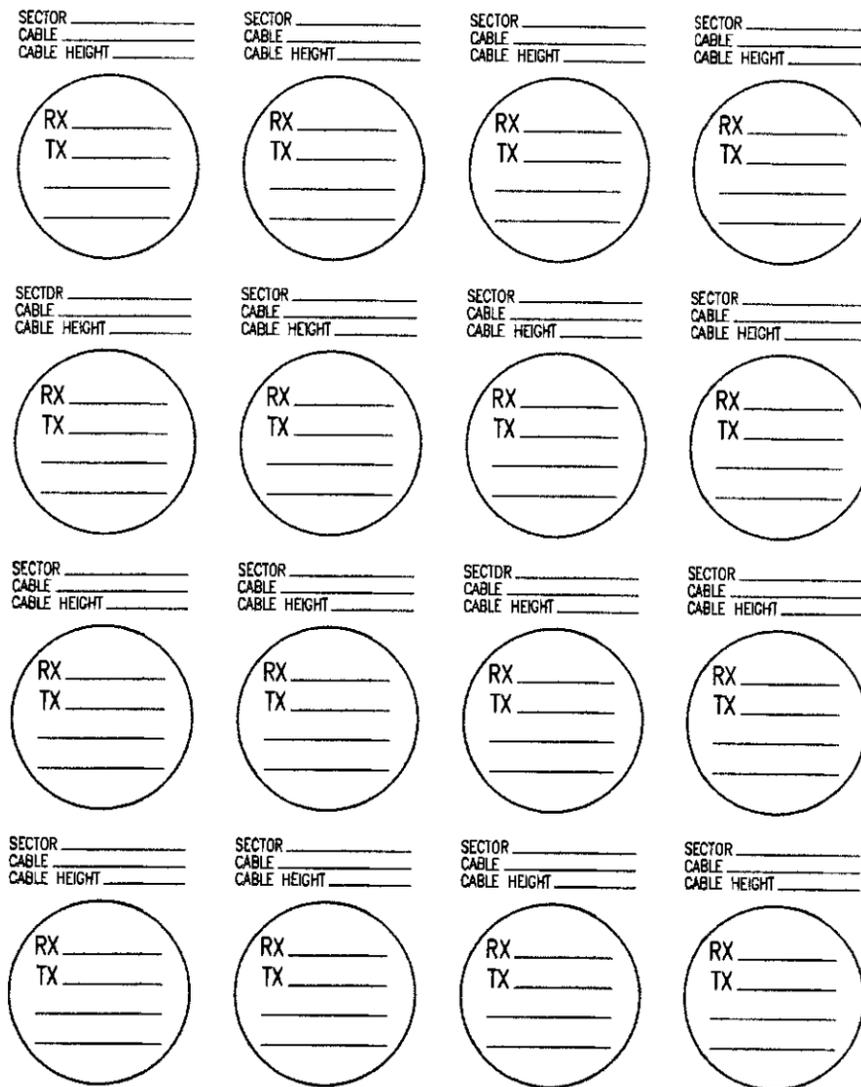
- SECTOR ORIENTATION/AZIMUTH WILL VARY FROM REGION AND IS SITE SPECIFIC. REFER TO RF REPORT FOR EACH SITE TO DETERMINE THE ANTENNA LOCATION AND FUNCTION OF EACH TOWER SECTOR FACE.
- THE ANTENNA SYSTEM COAX SHALL BE LABELED WITH THE VINYL TAPE EXCEPT IN LOCATIONS WHERE ENVIRONMENTAL CONDITIONS CAUSE PHYSICAL DAMAGE, THEN PHYSICAL TAGS ARE PREFERRED.
- THE STANDARD IS BASED ON EIGHT COLORED TAPES - RED, BLUE, GREEN, YELLOW, DRANGE, BROWN, WHITE, AND VIOLET. THESE TAPES MUST BE 3/4" WIDE & UV RESISTANT SUCH AS SCOTCH 35 VINYL ELECTRICAL COLOR CODING TAPE AND SHOULD BE READILY AVAILABLE TO THE ELECTRICIAN OR CONTRACTOR ON SITE.
- USING COLOR BANDS ON THE CABLES, MARK ALL RF CABLE BY SECTOR AND CABLE NUMBER AS SHOWN ON "CABLE MARKING COLOR CONVENTION TABLE".
- WHEN AN EXISTING COAXIAL LINE THAT IS INTENDED TO BE A SHARED LINE BETWEEN GSM/3G AND IS-136 /TDMA IS ENCOUNTERED, THE CONTRACTOR IS TO REMOVE THE EXISTING COLOR CODING SCHEME AND REPLACE IT WITH THE COLOR CODING AND TAGGING STANDARD THAT IS OUTLINED IN THE CURRENT VERSION OF NO-00027, IN THE ABSENCE OF AN EXISTING COLOR CODING AND TAGGING SCHEME, OR WHEN INSTALLING PROPOSED COAXIAL CABLES. THIS GUIDELINE IS TO BE IMPLEMENTED AT THAT SITE REGARDLESS OF TECHNOLOGY.
- ALL COLOR CODE TAPE SHALL BE 3M-35 AND SHALL BE INSTALLED USING A MINIMUM OF (3) WRAPS OF TAPE AND SHALL BE NEATLY TRIMMED AND SMOOTHED OUT SO AS TO AVOID UNRAVELING.
- ALL COLOR BANDS INSTALLED AT THE TOP OF THE TOWER SHALL BE A MINIMUM OF 3" WIDE, AND SHALL HAVE A MINIMUM OF 3/4" OF SPACE BETWEEN EACH COLOR.
- ALL COLOR CODES SHALL BE INSTALLED SO AS TO ALIGN NEATLY WITH ONE ANOTHER FROM SIDE-TO-SIDE.
- IF EXISTING CABLES AT THE SITE ALREADY HAVE A COLOR CODING SCHEME AND THEY ARE NOT INTENDED TO BE REUSED OR SHARED WITH THE GSM TECHNOLOGY, THEN THE EXISTING COLOR CODING SCHEME SHOULD REMAIN UNTOUCHED.



ALL RF CABLES SHALL BE MARKED AS PER CABLE MARKING LOCATIONS TABLE BELOW.

CABLE MARKING LOCATIONS TABLE	
NO.	DESCRIPTION
1	EACH TOP JUMPER SHALL BE COLOR CODED WITH (1) SET OF 3" WIDE BANDS.
2	EACH MAIN COAX SHALL BE COLOR CODED WITH (1) SET OF 3" WIDE BANDS NEAR THE TOP JUMPER CONNECTION AND WITH (1) SET OF 3/4" WIDE COLOR BANDS JUST PRIOR TO ENTERING THE BTS OR TRANSMITTER BUILDING.
3	CABLE ENTRY PORT ON THE INTERIOR OF SHELTER.
4	ALL BOTTOM JUMPERS SHALL BE COLOR CODED WITH (1) SET OF 3/4" WIDE BANDS ON EACH END OF THE BOTTOM JUMPER.
5	ALL BOTTOM JUMPERS SHALL BE COLOR CODED WITH (1) SET OF 3/4" WIDE BANDS ON EACH END OF THE BOTTOM JUMPER.

CABLE MARKING LOCATIONS DIAGRAM NOT TO SCALE



TOWER PLAN VIEW

**COAX COLOR CODING & IDENTIFICATION NOTES:**

- CABLE PORT DIAGRAM ONLY REQUIRED FOR SHELTER SITES.
- CONTRACTOR SHALL FILL OUT THE CABLE PORT DIAGRAM UPON COAX INSTALLATION. CABLE PORT DIAGRAM WILL BE AFFIXED TO THE INTERIOR SHELTER WALL NEAR THE CABLE ENTRY PORT TO AID IN CABLE IDENTIFICATION. THE CHART IS INTENDED TO BE USED TO RECORD THE LINE AND CORRESPONDING ANTENNA POSITION ON THE TOWER AT THE TIME OF INSTALLATION.
- ONE COMPLETED COPY PLUS TWO BLANK COPIES OF THE CHART SHOULD BE POSTED IN THE SHELTER IN A PROTECTIVE PLASTIC SLEEVE.
- SWEEP TEST EACH JUMPER AND DOCUMENT THE TEST IN ACCORDANCE WITH THE PROJECT PROCEDURES.

**RED SWING GROUP**  
 4154 OLD WILLIAM PENN HWY  
 SUITE 300  
 MURRYSVILLE, PA 15668  
 OFFICE: 724.325.1215

AT&T  
 SITE NO.: P470  
 SITE NAME: EAST CARSON ST. (ROOF TOP)  
 1611 EAST CARSON STREET  
 PITTSBURGH, PA 15203

BLACK & VEATCH  
 750 STATE ST.  
 SUITE 500  
 PITTSBURGH, PA 15220  
 (412) 387-0068

COMMUNITY WIRELESS  
 933 BEAVER DRIVE, 3RD FL.  
 PITTSBURGH, PA 15203  
 (412) 261-9000

AT&T  
 SITE NO.: P470  
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 1611 EAST CARSON STREET  
 PITTSBURGH, PA 15203

ACKNOWLEDGMENT OF "BANKING" BY PARTIES TO THE CONSTRUCTION DOCUMENTS DOES NOT CONSTITUTE AN ENDORSEMENT OF THESE SERVICES. THE PROFESSIONAL ENGINEER'S LIABILITY IS LIMITED TO THE DESIGN AND CONSTRUCTION OF THE PROJECT ONLY. ANY USE OR REUSE OF THESE SERVICES FOR OTHER PROJECTS WITHOUT THE WRITTEN CONSENT OF THE PROFESSIONAL ENGINEER IS A VIOLATION OF LAW. FOR ANY PROFESSIONAL ENGINEER'S LIABILITY INSURANCE POLICY, PLEASE REFER TO THE POLICY DOCUMENT. PROFESSIONAL ENGINEER: TO ALTER THIS DOCUMENT.

NO.	DATE	DESCRIPTION
1	1/16/2012	ISSUED FOR CONSTRUCTION
2	1/25/2012	ISSUED FOR REVIEW
3	1/25/2011	REVISED PER COMMUNITY MEETING GROUP COMMENTS
4	2/24/2011	RELOCATED ANTENNA'S MOUNTING LOCATIONS
5	2/24/2011	UPDATED EQUIPMENT ROOM DESIGN PER CLIENT COMMENTS
6	3/15/2011	ISSUED FOR CITY SUBMISSION
7	5/17/2011	ISSUED FOR CLIENT REVIEW
8	4/29/2011	MARK

PROJ NO: 1057  
 SCALE: AS NOTED  
 DATE: 4/11/2011  
 DRAWN BY: JLD  
 CHECKED BY: JLD  
 APPROVED BY: MES

SHEET TITLE:  
**COAXIAL COLOR CODING**

SHEET NO.  
**C-7**

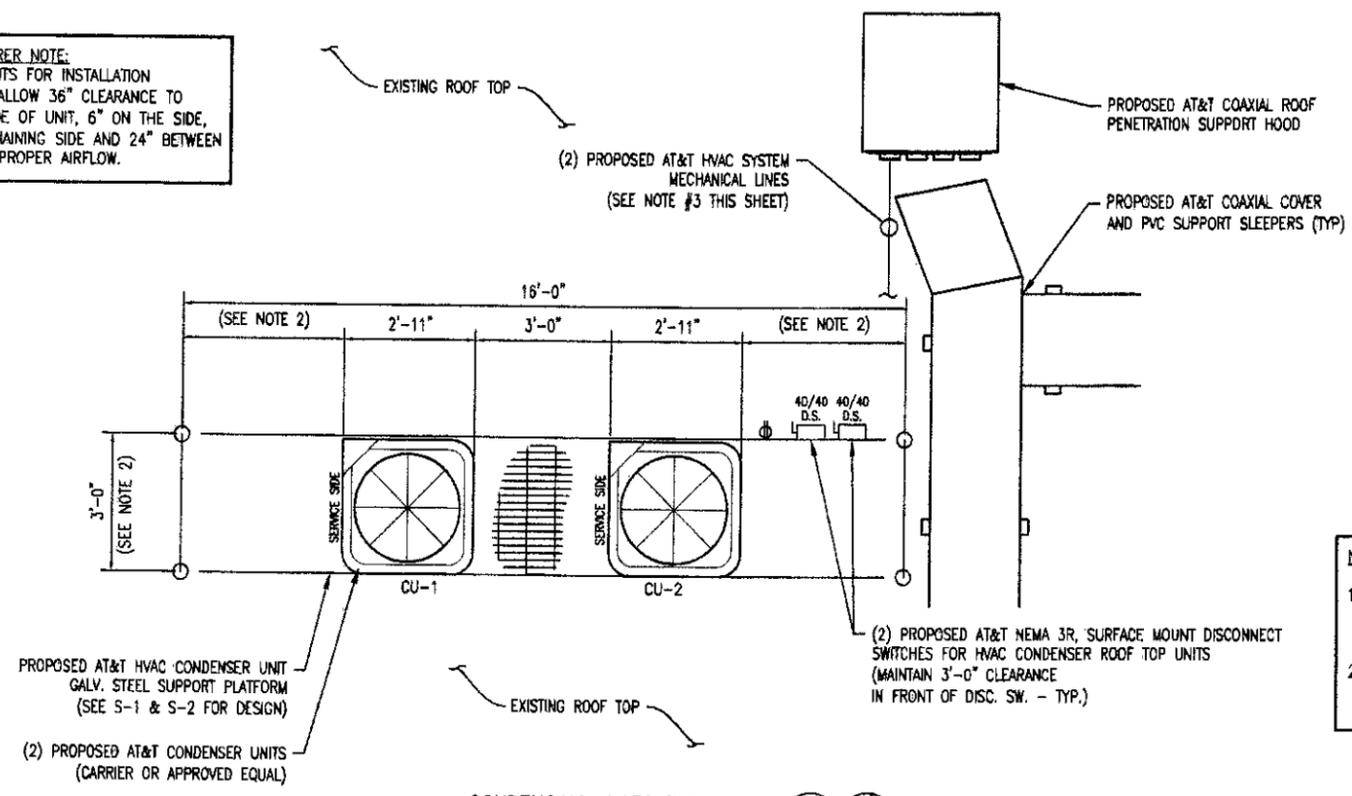
**MECHANICAL NOTES:**

1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AT THE JOB SITE AND COORDINATE THE INSTALLATION OF MECHANICAL MATERIALS AND EQUIPMENT WITH OTHER CONTRACTORS ON THE SITE PRIOR TO INSTALLATION. THE MECHANICAL CONTRACTORS SHALL BE RESPONSIBLE FOR ALL WORK SHOWN OR IMPLIED ON MECHANICAL SHEETS EXCEPT AS NOTED.
2. THE CONTRACTOR SHALL PERFORM ALL WORK IN ACCORDANCE WITH THE LOCAL STATE MECHANICAL CODE AND OTHER APPLICABLE BUILDING CODES AND LOCAL ORDINANCES AND GUARANTEE INSTALLATION FREE FROM DEFECT FOR A PERIOD OF ONE (1) YEAR AFTER ACCEPTANCE OF INSTALLATION.
3. THE CONTRACTOR SHALL INSTALL FIRESTOP AROUND ALL DUCTS AND PIPING PASSING THROUGH FIRE RATED FLOORS, CEILINGS AND WALLS.
4. THE CONTRACTOR SHALL LABEL ALL AIR CONDITIONING EQUIPMENT WITH SETONPLY NAMEPLATES WITH WHITE LETTERS ON BLACK BACKBOARD. MECHANICAL CONTRACTOR SHALL ALSO LABEL ALL NEW PIPING WITH SETMARK PIPE MARKERS AND INDICATE DIRECTION OF FLOW.
5. CONDENSATE DRAIN PIPING AND FITTINGS SHALL BE 3/4" PVC DWV TYPE ASTM D2665 WITH SOLVENT CEMENTED JOINTS. SOLVENT SHALL CONFORM TO ASTM D2564 SLOPE PIPING 1/8" PER FOOT IN DIRECTION OF FLOW (MIN.).
6. THE CONTRACTOR SHALL FURNISH AND INSTALL REFRIGERANT PIPING FOR REFRIGERATION SYSTEM. PIPING SHALL BE SEAMLESS COPPER TUBE, HARD DRAWN MEETING REQUIREMENTS OF ASTM B280 FITTINGS SHALL BE WROUGHT COPPER WITH LONG RADIUS ELBOWS. BRAZING ROOS SHALL BE AWS CLASS BCUP-4 OR 5 COPPER PHOSPHORUS. FLUX SHALL BE AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER. CONTRACTOR SHALL EVACUATE THE SYSTEM AND HOLD TEST VACUUM AT 200 MICRONS FOR 24 HOURS. AFTER TEST IS SUCCESSFUL, FULLY CHARGE EACH SYSTEM. INSULATE SUCTION LINE WITH 1/2" THICK ARMAFLEX INSULATION. INSTALL SUPPORT BRACKETS AS REQUIRED ALONG THE FULL ROUTING LENGTH.
7. THE CONTRACTOR SHALL INSTALL TWO NOMINAL 5 TON SPLIT SYSTEM COOLING UNITS AS MANUFACTURED BY THE CARRIER CORP. (PLEASE NOTE: THE SPECIFIC MODEL MUST BE APPROVED BY OWNER AT&T BEFORE ORDERING). THE FAN COIL UNIT (FCU) SHALL BE A MODEL FY4CNFD60 MATCHED WITH AN AIR COOLED CONDENSING UNIT (CU) MODEL 24ACB360A005. THE SYSTEM CAPACITY SHALL BE 57,000 BTUH TOTAL; 44,12D BTUH SENSIBLE BASED ON 75°F/40 PERCENT RH ENTERING AIR AND 95°F AMBIENT CONDENSING TEMPERATURE. THE FAN COIL UNITS (FCU-1&2) SHALL DELIVER 2000 CFM AT 0.3" ESP AND BE EQUIPPED WITH A THERMAL EXPANSION VALVE, COOLING COIL, DISCONNECT KIT, FILTER RACK, 10KW ELECTRIC HEATER MODEL MKFCEH0901N10 AND EVAPORATOR FREEZESTAT. THE AIR COOLED CONDENSING UNIT SHALL BE EQUIPPED WITH A SCROLL COMPRESSOR, CRANKCASE HEATER, 5 YEAR COMP. WARRANTY, HIGH AND LOW AMBIENT CONTROLLER. FAN COIL SHALL OPERATE ON 208/230/1/60 POWER, 50.6 MCA, 23.3 MCA, 40A CIRCUIT BREAKER. REFRIGERATION LINE SIZES SHALL BE 3/8" LIQUID AND 1/2" SUCTION. APPROXIMATE WEIGHT OF FAN COIL UNIT IS 200 LBS. & CONDENSING UNIT IS 300 LBS.
8. ALL SHEET METAL DUCTWORK SHALL BE FABRICATED OF ZINC-COATED LOCK FORMING STEEL MEETING REQUIREMENTS OF ASTM A527-85 WITH GAS COATING.
9. THE CONTRACTOR SHALL PROVIDE A BARD MC3000A OR EQUAL MASTER CONTROL AND CONTROL WIRING TO OPERATE FCU-1/FCU-2 AND CU-1/CU-2 TO MAINTAIN SPACE TEMPERATURE. THE UNIT SHALL HAVE THE FOLLOWING SETPOINTS:
  - A. HIGH TEMPERATURE ALARM - 85°F.
  - B. LOW TEMPERATURE ALARM - 55°F.
  - C. NORMAL COOLING SETPOINT - 75°F.
  - D. NORMAL HEATING SETPOINT - 65°F.

INCLUDE ALARM FOR HIGH CONDENSATE LEVEL UNIT #1 & #2.

10. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY CONDUIT FOR THE MECHANICAL CONTRACTOR TO INSTALL HIS OWN TEMPERATURE CONTROL WIRING.
11. CONTRACTOR SHALL INSTALL EQUIPMENT PER LATEST EDITION OF THE NEC.
12. CONTRACTOR SHALL PROVIDE A COMPLETE FIRE SUPPRESSION, (FM 200) DETECTION AND ALARM SYSTEM. CONTRACTOR SHALL PROVIDE AN INTERCONNECTION TO EXISTING BUILDING MAIN FIRE ALARM PANEL, INCLUDING ANY INTERFACE MODULES, ALL INTERLOCKS TO SHUTDOWN ALL HVAC EQUIPMENT AND ALL WIRING (AND CONDUIT) AS REQUIRED.
13. CONTRACTOR SHALL PROVIDE A DOOR SECURITY SWITCH(S) MAGNETIC & ALARM BY-PASS SWITCH. SWITCH SHALL BE NORMALLY CLOSED (N.C.) WHEN DOOR IS IN THE CLOSED POSITION.

**MANUFACTURER NOTE:**  
REQUIREMENTS FOR INSTALLATION PURPOSES ALLOW 36" CLEARANCE TO SERVICE SIDE OF UNIT, 6" ON THE SIDE, 12" ON REMAINING SIDE AND 24" BETWEEN UNITS FOR PROPER AIRFLOW.



PROPOSED 3/8" PUMPED CONDENSATE DRAIN PIPES FROM FCU-1 & FCU-2 THROUGH EQUIPMENT ROOM ALONG CEILING INTO BUILDING CHIMNEY & DOWN THROUGH BUILDING BASEMENT OVERHEAD AND OUT TO EXTERIOR CONDENSER UNITS (FIELD VERIFY) (SEE NOTE #5 THIS SHEET)

PROVIDE WALL PENETRATIONS FOR PUMPED CONDENSATE LINE (SEE NOTE #3 THIS SHEET)

PROPOSED 3/8" LIQUID & 1/2" SUCTION REFRIGERANT PIPING (TYP. FOR BOTH UNIT SYSTEMS), RUN MECHANICAL LINES THROUGH EQUIPMENT ROOM ALONG CEILING OR WALL TOWARDS BUILDING EXTERIOR LOCATION OF CONDENSING UNITS

PROPOSED ELECTRICAL DISTRIBUTION PANEL

PROPOSED FLOOR MOUNTED FCU-2

PROPOSED SMDKE DETECTORS MOUNTED ON CEILING (TYP.)

**NOTE:**  
ELEC. & REFRIG. LINES IN SEPERATE CONDUITS, EXACT ROUTES SHALL BE VERIFIED WITH OWNER PRIOR TO CONSTRUCTION.

PROPOSED AT&T EQUIPMENT ROOM  
PROPOSED HVAC MASTER CONTROLLER (SEE NOTE #9 THIS SHEET)

PROPOSED FIRE ALARM HORN & STROBE LIGHT (TYP.)

PROPOSED AT&T COAXIAL ROOF PENETRATION SUPPORT HOOD ON ROOF ABOVE

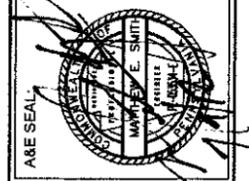
PROPOSED FLOOR MOUNTED FCU-1

PROPOSED FM 200 CANISTER & FIRE ALARM PANEL

**NOTE:**

1. ALL CONDUIT AND PIPE RUNS SHALL BE INSTALLED IN A NEAT AND ORDERLY FASHION AS DICTATED BY EXISTING CONDITIONS.
2. ALL DIMENSIONS SHALL BE FIELD VERIFIED/CODRINATED TO WORK WITH EXISTING JOIST SPACING AND LAYOUT.

**4TH FLOOR MECHANICAL PLAN**  
3/8" = 1'-0" SCALE IF PRINTED AT 22X34  
SCALE IS HALF IF PRINTED AT 11X17



BLACK & VEATCH  
750 HOLWAY DRIVE  
PITTSBURGH, PA 15220  
(412) 387-8000

MARK E. SUIT  
COMMUNITY DEVELOPMENT  
830 BRADY BLVD. 18TH FLOOR  
PITTSBURGH, PA 15226  
(412) 680-0000

**AT&T**  
SITE NO.: P470  
SITE NAME: EAST CARSON ST. (ROOF TOP)  
1611 EAST CARSON STREET  
PITTSBURGH, PA 15203

ANY WORK SHOWN ON THIS DRAWING IS THE PROPERTY OF AT&T INTELLECTUAL PROPERTY. IT IS THE PROPERTY OF AT&T INTELLECTUAL PROPERTY.

REVISIONS:	DESCRIPTION	DATE	MARK
7	REVISED PER ELECTRICAL CODE RESOLUTION	3/8/2012	
6	HVAC DESIGN ENHANCEMENTS	2/9/2012	
5	ISSUED FOR CONSTRUCTION	1/19/2012	
4	ISSUED FOR REVIEW	1/19/2012	
3	REVISED PER COMMUNITY MEETING GROUP COMMENTS	12/22/2011	
2	RELOCATED ANTENNAS MOUNTING LOCATIONS	8/24/2011	
1	UPDATED EQUIPMENT ROOM DESIGN PER CLIENT COMMENTS	6/15/2011	
0	ISSUED FOR CITY SUBMISSION	5/17/2011	
B	ISSUED FOR CLIENT REVIEW	4/28/2011	

PROJ. NO.: 1067  
SCALE: AS NOTED  
DATE: 4/11/2011  
DRAWN BY: JLD  
CHECKED BY: JLD  
APPROVED BY: MES

**MECHANICAL PLANS & NOTES**

SHEET NO. **M-1**









**CONTRACTOR GENERAL NOTES**

1. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, SAFETY EQUIPMENT, TRANSPORTATION, AND SERVICES NECESSARY TO COMPLETE ALL THE WORK OUTLINED IN ALL THE DRAWINGS, SPECIFICATIONS, SCOPE OF WORK, BILL OF MATERIALS, AND ANY OTHER DOCUMENT ISSUED BY BLACK & VEATCH AND AT&T WIRELESS SERVICES.

2. THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL AND NATIONAL CODES, LAWS, ORDINANCES, REGULATIONS, SAFETY REGULATIONS, ALL OSHA REGULATIONS, ALL PUBLIC AND MUNICIPAL AUTHORITIES, AND ANY UTILITY COMPANY REGULATIONS AND DIRECTIVES.

3. ALL MATERIALS SUPPLIED BY THE BLACK & VEATCH REPRESENTATIVE, AND THE CONTRACTOR, SHALL BE INSTALLED IN ACCORDANCE WITH ALL LOCAL AND NATIONAL CODES, LAWS, ORDINANCES, REGULATIONS AND PER MANUFACTURER'S RECOMMENDATIONS.

4. ANY CONTRACTOR SUBMITTING BIDS ON ANY OF THE WORK SHALL BE REQUIRED TO VISIT EACH SITE PRIOR TO THE BID SUBMITTAL AND FAMILIARIZE HIMSELF/HERSELF WITH THE EXISTING CONDITIONS AND UNDERSTAND THE SCOPE OF WORK INTENDED FOR THE PROJECT. THIS SHALL BE PERFORMED AT THE CONTRACTOR'S EXPENSE.

5. THE DRAWINGS AND SPECIFICATIONS ARE A GENERAL DIRECTIVE FOR THE SCOPE OF WORK. EXACT DIMENSIONS AND LOCATIONS MAY CHANGE IN THE FIELD. THE CONTRACTOR SHALL VERIFY THE DIMENSIONS AND LOCATIONS AND REPORT ANY AND ALL DISCREPANCIES TO BLACK & VEATCH PRIOR TO COMMENCING THE RELATED WORK. ANY MINOR ERRORS OR OMISSIONS IN THE DRAWINGS AND SPECIFICATIONS, DOES NOT EXCUSE THE CONTRACTOR FROM COMPLETING THE PROJECT AND IMPROVEMENTS IN ACCORDANCE WITH THE INTENT OF THESE DOCUMENTS.

6. ALL SITES SHALL BE KEPT CLEAN AND FREE OF DEBRIS ON A DAILY BASIS. ALL TRASH AND MATERIALS NO LONGER BEING USED AT THE SITE SHALL BE REMOVED AND PROPERLY DISPOSED OF ON A DAILY BASIS. ANY EXCESS MATERIAL SHALL BE RETURNED TO BLACK & VEATCH AND DELIVERED TO THE WAREHOUSING FACILITY PER THE DIRECTION OF BLACK & VEATCH.

7. THE CONTRACTOR SHALL NOT PROCEED WITH ANY WORK AT THE SITE PRIOR TO A NOTICE TO PROCEED (NTP) HAS BEEN ISSUED AND A PRE-CONSTRUCTION MEETING AT THE SITE HAS TAKEN PLACE.

8. ALL WORK AND MATERIALS FURNISHED BY THE CONTRACTOR SHALL HAVE A WRITTEN 18 MONTH WARRANTY STARTING AT THE ACCEPTANCE OF THE SITE FROM BLACK & VEATCH.

9. THE CONTRACTOR SHALL HAVE DESIGNATED MANAGER ON SITE AT ALL TIMES THAT ANY WORK IS BEING PERFORMED. A SUB-CONTRACTOR IS NOT DEFINED AS A DESIGNATED MANAGER.

10. THE CONTRACTOR SHALL PROVIDE A SCHEDULED LIST OF ALL SUB-CONTRACTORS, WHICH SHALL INCLUDE ADDRESSES, CELL PHONE NUMBERS, HOME PHONE NUMBERS, VERIFICATION OF INSURANCE, ANY AND ALL PERTINENT LICENSES, AND AN ACCURATE SCHEDULE FOR THE PROJECT PRIOR TO THE ISSUANCE OF AN NTP.

11. THE CONTRACTOR SHALL KEEP A COMPLETE AND UP-TO-DATE SET OF THE DRAWINGS, SPECIFICATIONS, SCOPE OF WORK, AND BILL OF MATERIAL ON THE SITE AT ALL TIMES. THIS SHALL BE REFERENCED AS THE AS-BUILT DRAWINGS AND SHALL BE KEPT CURRENT ON A DAILY BASIS. THIS IS IN ADDITION TO THE PERMIT SET.

12. A NEW AND CLEAN SET OF CONTRACT DOCUMENTS SHALL BE ISSUED TO THE CONTRACTOR NEAR THE COMPLETION OF THE PROJECT AND SHALL BE USED TO TRANSFER THE INFORMATION FROM THE FIELD COPY OF AS-BUILT DRAWINGS TO THE NEW COPY. THIS SHALL BE SUBMITTED TO BLACK & VEATCH WITH THE CLOSEOUT DOCUMENTS.

13. ON ANY CO-LOCATION SITE, THE CONTRACTOR AND ANY AND ALL ASSIGNS SHALL NOT USE EXISTING POWER OR TAMPER WITH ANY EQUIPMENT BELONGING TO ANY OTHER CARRIER. FAILURE TO ADHERE TO THIS SHALL CAUSE IMMEDIATE DISMISSAL OF THE CONTRACTOR FROM THE PROJECT.

14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING ALL INSPECTIONS AND TESTING REQUIRED FOR EACH PROJECT. A 48-HOUR NOTIFICATION TO BLACK & VEATCH IS REQUIRED FOR ALL INSPECTIONS AND TESTING. A FIELD COPY OF ALL INSPECTION AND TESTING REPORTS AS WELL AS TRUCK TICKETS SHALL BE SUBMITTED TO BLACK & VEATCH WITHIN 24 HOURS OF THE INSPECTION OR TEST.

15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL MATERIAL ISSUED TO HIM/HER, AND TO REPORT ANY SHORTAGES AND DISCREPANCIES TO BLACK & VEATCH AT THE TIME OF ISSUANCE. THE CONTRACTOR SHALL STORE THESE MATERIALS PROPERLY, ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS AND IN A MANNER THAT SHALL NOT VOID THE WARRANTY ON ANY ITEM. IF ANY ITEM IS DAMAGED OR UNUSABLE DUE TO IMPROPER HANDLING AND STORAGE, THE CONTRACTOR SHALL REPLACE IT AT HIS/HER EXPENSE.

16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING PROPER FACILITIES FOR THE WORKERS ON EACH PROJECT FOR THE DURATION OF THAT PROJECT.

17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE PRESENT CONDITION OF ANY EXISTING BUILDINGS, LANDSCAPING, FENCING, EQUIPMENT, WALKS, DRIVES, AND ATTACHMENTS. IF ANY DAMAGE OCCURS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING THE DAMAGE TO A BETTER OR NEW CONDITION.

**PART 1 - PROJECT GENERAL NOTES**

**1.1 SCOPE OF WORK**

A. PROVIDE ALL LABOR, MATERIAL, TOOLS, EQUIPMENT, TRANSPORTATION AND SERVICES NECESSARY FOR AND INCIDENTAL TO COMPLETION OF ALL WORK AS INDICATED ON THE DRAWINGS AND / OR AS SPECIFIED HEREIN.

**1.2 DRAWING USE AND INTERPRETATION**

A. THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND EQUIPMENT UNLESS INDICATED OTHERWISE BY DIMENSIONS OR DETAILS. EXACT EQUIPMENT LOCATIONS AND ROUTINGS, ETC. SHALL BE GOVERNED BY ACTUAL FIELD CONDITIONS AND/OR INSTRUCTIONS OF THE ENGINEER AND/OR BLACK & VEATCH.

**1.3 COMPLETE SYSTEMS**

A. GENERAL: FURNISH AND INSTALL ALL MATERIALS AS REQUIRED FOR COMPLETE SYSTEMS, WHETHER SPECIFICALLY INDICATED OR NOT. ALL SYSTEMS SHALL BE COMPLETELY ASSEMBLED, TESTED, ADJUSTED, DEMONSTRATED TO BE READY FOR OPERATION PRIOR TO BLACK & VEATCH'S ACCEPTANCE.

**1.4 CODES AND REGULATIONS**

A. GENERAL: COMPLY WITH ALL GOVERNING FEDERAL, STATE AND LOCAL LAWS, ORDINANCES, CODES, RULES AND REGULATIONS. WHERE THE CONTRACT DOCUMENTS EXCEED THESE REQUIREMENTS, THE CONTRACT DOCUMENTS SHALL GOVERN. IN NO CASE SHALL WORK BE INSTALLED CONTRARY TO OR BELOW MINIMUM LEGAL STANDARDS.

B. UTILITIES: COMPLY WITH ALL APPLICABLE RULES, RESTRICTIONS, AND REQUIREMENTS OF THE UTILITY COMPANIES SERVING THE PROJECT SITE/FACILITIES.

C. NON-COMPLIANCE: SHOULD ANY WORK BE PERFORMED WHICH IS FOUND NOT TO COMPLY WITH ANY OF THE ABOVE, CONTRACTOR SHALL PROVIDE ALL WORK AND PAY ALL COSTS NECESSARY TO CORRECT THE DEFICIENCIES.

**1.5 REFERENCE STANDARDS**

A. ALL LATEST PUBLISHED STANDARDS OF THE FOLLOWING ASSOCIATIONS/ORGANIZATIONS SHALL BE FOLLOWED AND APPLIED WHERE APPLICABLE, AS MINIMUM REQUIREMENTS.

- 1) (ANSI) AMERICAN NATIONAL STANDARDS INSTITUTE.
- 2) (ASTM) AMERICAN SOCIETY FOR TESTING AND MATERIALS.
- 3) (ETL) ELECTRICAL TESTING LABORATORY.
- 4) (ICEA) INSULATED CABLE ENGINEERS ASSOCIATION.
- 5) (IEEE) INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS.
- 6) (NBFU) NATIONAL BOARD OF FIRE UNDERWRITERS.
- 7) (NEMA) NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION.
- 8) (NEC) NATIONAL ELECTRIC SAFETY CODE.
- 9) (NFPA) NATIONAL FIRE PROTECTION ASSOCIATION.
- 10) (UL) UNDERWRITER'S LABORATORIES.
- 11) (BOCA) BUILDING OFFICIALS & CODE ADMINISTRATORS.
- 12) (NEC) NATIONAL ELECTRICAL CODE.

**1.6 PERMITS**

A. GENERAL: ALL PERMITS REQUIRED BY ALL APPLICABLE AGENCIES, SHALL BE OBTAINED BY SUBCONTRACTOR.

**1.7 SUBMITTALS**

A. REQUIRED SUBMITTALS INCLUDE: LIST OF SUBCONTRACTORS; PRODUCT DATA; SHOP DRAWINGS; SAMPLES; TEST REPORTS; CERTIFICATIONS; WARRANTIES; MAINTENANCE MANUALS; RECORD DRAWINGS; AND VARIOUS ADMINISTRATIVE SUBMITTALS.

B. RECORD DOCUMENTS: INDICATE ACTUAL INSTALLED LOCATIONS FOR ALL EQUIPMENT AND DEVICES ROUTING OF MAJOR INTERIOR RACEWAYS, LOCATIONS OF ALL CONCEALED AND UNDERGROUND EQUIPMENT AND RACEWAYS AND ALL APPROVED MODIFICATIONS TO THE CONTRACT DOCUMENTS, AND DEVIATIONS NECESSITATED BY FIELD CONDITIONS AND CHANGE ORDERS.

C. SAFETY MEETING(S) MINUTES.

D. NUMBER OF COPIES OF ALL SUBMITTALS: TWO

**1.8 QUALITY ASSURANCE**

A. MANUFACTURERS QUALIFICATIONS: NOT LESS THAN THREE YEARS EXPERIENCE IN THE ACTUAL PRODUCTION OF THE SPECIFIED PRODUCTS.

B. INSTALLERS QUALIFICATIONS: FIRM WITH NOT LESS THAN FIVE YEARS EXPERIENCE IN THE INSTALLATION OF ELECTRICAL SYSTEMS AND EQUIPMENT SIMILAR IN SCOPE AND COMPLEXITY TO THOSE REQUIRED FOR THIS PROJECT, AND HAVING SUCCESSFULLY COMPLETED AT LEAST TEN COMPARABLE SCALE PROJECTS.

C. INCIDENTAL WORK: PAINTING, PATCHING WELDING, CARPENTRY, MECHANICAL WORK AND THE LIKE REQUIRED FOR WORK SHALL BE PERFORMED BY CRAFTSMAN SKILLED IN THE APPROPRIATE TRADE.

**1.9 INSPECTIONS**

A. GENERAL: DURING AND UPON COMPLETION OF THE WORK, ARRANGE AND PAY ALL ASSOCIATED COSTS FOR INSPECTIONS OF ALL ELECTRICAL WORK INSTALLED UNDER THIS CONTRACT, IN ACCORDANCE WITH THE CONDITIONS OF THE CONTRACT

B. INSPECTIONS REQUIRED: AS PER THE LAWS AND REGULATIONS OF THE LOCAL AND / OR STATE AGENCIES HAVING JURISDICTION AT THE PROJECT SITE.

C. INSPECTION AGENCY: APPROVED BY THE LOCAL AND/OR STATE AGENCIES HAVING JURISDICTION AT THE PROJECT SITE.

D. CERTIFICATES: SUBMIT ALL REQUIRED INSPECTION CERTIFICATES.

**1.10 DELIVERY STORAGE AND HANDLING**

A. PACKING AND SHIPPING: DELIVER PRODUCTS IN ORIGINAL UNOPENED PACKAGING, PROPERLY IDENTIFIED WITH MANUFACTURER'S IDENTIFICATION, AND COMPLIANCE LABELS.

B. STORAGE AND PROTECTION: COMPLY WITH ALL MANUFACTURER'S WRITTEN RECOMMENDATIONS. STORE ALL PRODUCTS IN A MANNER WHICH SHALL PROTECT THEM FROM DAMAGE, WEATHER, AND ENTRY OF DEBRIS.

C. DAMAGED PRODUCTS: DO NOT INSTALL DAMAGED PRODUCTS. ARRANGE FOR PROMPT REPLACEMENT.

**1.11 MAINTAINING SITE CONDITIONS**

A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING A NEAT AND ORDERLY PROJECT SITE. REMOVE AND DISPOSE OFF SITE ALL RUBBISH, WASTE, LITTER, AND ALL FOREIGN SUBSTANCES IN A LEGAL MANNER. REMOVE PETRO-CHEMICAL SPILLS, STAINS, AND OTHER FOREIGN DEPOSITS IN COMPLIANCE WITH OSHA REGULATIONS. RETURN ALL SURFACES TO ORIGINAL CONDITION.

**LANDSCAPING**

1. THE CONTRACTOR SHALL GRUB THE SITE AREA AND ANY ACCESS ROAD, CLEARING AND REMOVING A MINIMUM OF 6" TO ACHIEVE A STABLE SUB-BASE TO ACCEPT FILL OR OTHER MATERIAL SPECIFIED FOR THE SITE AND NOT REUSED IN ANY PART OF THIS PROJECT.

2. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO CALL THE LOCAL LOCATING AUTHORITIES TO VERIFY THE LOCATION OF ANY UNDERGROUND UTILITIES OR LINES THAT EXIST WITHIN THE ENTIRE PROJECT AREA. THE CONTRACTOR SHALL PLACE THESE ITEMS ON THE AS-BUILT DRAWINGS.

3. IF LANDSCAPING IS REQUIRED, SUBMIT TWO COPIES OF THE LANDSCAPE PLAN UNDER NURSERY LETTERHEAD TO GENERAL DYNAMICS. IF A LANDSCAPE ALLOWANCE IS INCLUDED, PROVIDE A LIST OF PROPOSED ITEMS AS WELL AS A LANDSCAPE PLAN ON NURSERY LETTERHEAD.

4. ALL ROADWORK AND MATERIALS SHALL CONFORM TO ALL STATE AND LOCAL CODES IN ACCORDANCE WITH THE DEPARTMENT OF HIGHWAY AND PUBLIC TRANSPORTATION STANDARD SPECIFICATIONS.

5. THE ACCESS ROAD, IF REQUIRED, SHALL BE CONSTRUCTED FIRST BEFORE ANY OTHER WORK ON THE SITE IS PERMITTED. BRING THE ROAD TO SUB-BASE COURSE TO ALLOW CONSTRUCTION TRAFFIC TO USE THE ROAD FOR THE PROJECT, AND COMPLETE THE ROAD AFTER THE CONSTRUCTION OF THE SITE IS SUBSTANTIALLY COMPLETE.

6. ALL SITE AREAS AND ACCESS ROADS SHALL BE CONSTRUCTED TO HAVE A POSITIVE DRAINAGE FLOW AWAY FROM THE SITE AND EQUIPMENT. ANY DISCREPANCIES IN THE DRAWINGS OR SPECIFICATION SHALL BE BROUGHT TO THE ATTENTION OF GENERAL DYNAMICS IMMEDIATELY.

7. ALL ACCESS ROAD AND SITE AREAS SHALL HAVE AN UNDERLAYMENT OF MIRAFI-SDDX, OR EQUAL.

8. A SOIL STERILIZER SHALL BE APPLIED TO ALL GRAVEL SURFACES, AND BE AN EPA REGISTERED LIQUID COMPOSITION AND OF PRE-EMERGENCE DESIGN. THE PRODUCT LABEL AND INFORMATION WILL BE GIVEN TO GENERAL DYNAMICS.

9. GRAVEL FILL SHALL BE WELL-GRADED, HARD, DURABLE, NATURAL SAND AND GRAVEL, FREE FROM ICE AND SNOW, ROOTS SOD RUBBISH, AND OTHER DELETERIOUS OR ORGANIC MATTER. MATERIAL SHALL CONFORM TO THE FOLLOWING GRADATION REQUIREMENTS:

SIEVE NUMBER	% PASSING BY WEIGHT
4"	100
1/2"	50 - 85
#4	40 - 75
#10	30 - 60
#40	10 - 30
#100	5 - 20
#200	0 - 8

10. ALL FILL DIRT SHALL BE CLEAN AND NATURAL, FREE FROM ANY DELETERIOUS MATERIALS, ROOTS, ICE, SNOW, SOD, AND RUBBISH. A COPY OF ALL DELIVERY TICKETS WILL BE SUBMITTED TO GENERAL DYNAMICS WITHIN 24 HOURS FROM THE DELIVERY.

11. ALL TRENCHES SHALL HAVE A SIX-INCH BASE OF CLEAN SAND FILL TO ACCEPT THE CONDUITS, AND ANOTHER 12" OF CLEAN SAND FILL ON TOP OF THE CONDUITS. THE REMAINDER OF THE TRENCH SHALL HAVE A CLEAN COMPATIBLE FILL PLACED IN MAXIMUM LIFTS OF 8", AND MECHANICALLY COMPACTED TO A DENSITY OF 95%. METALLIC WARNING TAPE SHALL BE PLACED AT 12" BELOW FINISHED GRADE ALONG THE ENTIRE TRENCH.

12. ALL COMPACTION OF SITE AREAS SHALL BE ACCOMPLISHED BY MECHANICAL MEANS. LARGER AREAS SHALL BE COMPACTED BY A SHEEP'S FOOT VIBRATORY ROLLER WEIGHING AT LEAST 5 TONS. SMALLER AREAS SHALL BE COMPACTED BY A POWER-DRIVEN HAND-HELD TAMPER. ALL COMPACTED AREAS SHALL BE COMPACTED TO WITHIN 95%, AND TESTED BY AN INDEPENDENT LABORATORY. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SCHEDULE THE TESTING. ANY SCHEDULING FOR A PRDCTOR WILL BE THE CONTRACTOR'S RESPONSIBILITY, AND MUST BE DONE IN A TIMELY FASHION TO ASSURE THE PROJECT WILL NOT BE DELAYED.

13. ANY FILL OR STONE SHALL BE PLACED IN MAXIMUM 8" LIFTS PRIOR TO COMPACTING.

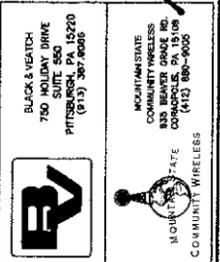
14. FINISHED GRADE, INCLUDING TOP SURFACE COURSE, SHALL EXTEND A MINIMUM OF 12" BEYOND THE SITE FENCE AND SHALL COVER THE AREA AS INDICATED.

15. USE RIPRAP IN ANY AREAS WITH A SLOPE GREATER THAN 2:1, IN THE ENTIRE DITCH FOR 6 FEET IN ALL DIRECTIONS AT CULVERT OPENINGS, AND WHEREVER INDICATED ON PLANS.

16. SEED FERTILIZER AND STRAW COVER SHALL BE APPLIED TO ALL OTHER DISTURBED AREAS, DITCHES, DRAINAGE, AND SWALES NOT OTHERWISE RIPRAPPED. SEED AND FERTILIZER SHALL BE APPLIED TO SURFACE CONDITIONS THAT WILL ENCOURAGE ROOTING. PREPARE SURFACE PROPERLY TO ACCEPT THE SEEDS. SOW SEEDS IN TWO OPPOSITE DIRECTIONS IN TWICE THE QUANTITY RECOMMENDED BY THE SEED PRODUCER.

17. THE CONTRACTOR IS RESPONSIBLE TO ENSURE GROWTH OF THE SEEDED AND LANDSCAPED AREAS BY WATERING, STRAW, MULCH, NET, AND ANY OTHER PROPER LANDSCAPING METHOD NECESSARY. ALL AREAS MUST HAVE SUSTAINED GROWTH BY THE TIME OF COMPLETION OF THE PROJECT.

18. THE CONTRACTOR SHALL PROTECT ALL AREAS FROM WASHOUTS AND SOIL EROSION. STRAW BALES SHALL BE PLACED AT THE INLET APPROACH TO ALL NEW OR EXISTING CULVERTS.



AT&T  
 SITE NO.: P470  
 SITE NAME: EAST CARSON ST. (ROOF TOP)  
 1811 EAST CARSON STREET  
 PITTSBURGH, PA 15203

REVISIONS:	DATE	DESCRIPTION
1	1/16/2012	ISSUED FOR CONSTRUCTION
2	1/16/2012	ISSUED FOR REVIEW
3	1/26/2011	REVISED PER COMMUNITY MEETING GROUP COMMENTS
4	8/24/2011	RELOCATED ANTENNA'S MOUNTING LOCATIONS
5	8/15/2011	UPDATED EQUIPMENT ROOM DESIGN PER CLIENT COMMENTS
6	5/17/2011	ISSUED FOR CITY SUBMISSION
7	4/28/2011	ISSUED FOR CLIENT REVIEW
A		
B		

PROJ NO: 1087  
 SCALE: AS NOTED  
 DATE: 4/11/2011  
 DRAWN BY: JLD  
 CHECKED BY: JLD  
 APPROVED BY: MES

SHEET TITLE:  
**GENERAL NOTES**  
 SHEET NO.  
**GN-1**

**CONCRETE**

1. ALL MATERIALS, LABOR, AND METHODS SHALL CONFORM TO ALL APPLICABLE ASTM AND ACI STANDARDS AND REQUIREMENTS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INSURE THAT ALL STANDARDS ARE MET, AND TO BE ABLE TO PRODUCE THE VERIFICATION OF THESE ITEMS UPON REQUEST.
2. THE CONTRACTOR SHALL SCHEDULE ALL INSPECTIONS AT THE TESTING LABORATORY, AND INFORM BLACK & VEATCH WITHIN 24 HOURS OF THE INSPECTION OR TEST. THE TEST SHALL INCLUDE SLUMP, AIR ENTRAINMENT, TEMPERATURE, AND TEST CYLINDERS. A TOTAL OF FIVE CYLINDERS SHALL BE TAKEN DURING EACH POUR OR FOR EACH 50 YARDS IF THE POUR IS OVER 50 YARDS. THE FIRST CYLINDER SHALL BE BROKEN AT 3-1/2 DAYS, A SECOND AT 7 DAYS, A THIRD AT 14 DAYS AND A FOURTH AT 28 DAYS. THE LAST CYLINDER SHALL BE KEPT SEPARATELY FOR FUTURE USE IF NECESSARY.
3. ALL CONCRETE FOR THE PROJECT SHALL HAVE A 28-DAY STRENGTH OF 4,000 PSI AND A SLUMP OF 5" MAXIMUM WITH THE MIXTURE PROPORTIONS MEETING THE ASTM AND ACI REQUIREMENTS. ALL ADMIXTURES AND MATERIALS USED FOR THE CONCRETE MIXTURE SHALL ALSO CONFORM TO THE PROPER ASTM REQUIREMENTS.
4. THE CONTRACTOR SHALL INSTRUCT THE CONCRETE SUPPLIER TO HAVE AN APPROVED PLASTICIZER ON THE TRUCK TO AID IN THE POURING AND PLACING OF PIERS AND FOUNDATIONS.
5. AIR ENTRAINING AGENT SHALL BE USED IN ANY CONCRETE EXPOSED TO FREEZING TEMPERATURES.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EMBEDMENT LOCATIONS, SIZES, AND PROPER ANCHORING TO HOLD THE ITEMS IN PLACE ACCURATELY.
7. THE CONTRACTOR SHALL SUPPLY AND USE A RELEASING AGENT ON ALL FORMS.
8. ALL EXPOSED CONCRETE SHALL HAVE A UNIFORM FINISH AND BE SLOPED FOR DRAINAGE OFF THE SURFACE UNLESS OTHERWISE NOTED IN THE PLANS OR SPECIFICATIONS.
9. THE CONTRACTOR SHALL PROTECT THE CONCRETE FROM ANY ADVERSE WEATHER CONDITIONS; PREMATURE DRYING AND MECHANICAL INJURY TO INSURE PROPER CURING.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE USE AND CONTROL OF ANY MECHANICAL EQUIPMENT TO INSURE THE PROPER PLACEMENT OF THE CONCRETE TO PREVENT ANY VOIDS OR GAPS.

**METALS**

1. ALL LABOR, MATERIALS, FABRICATION AND WORKMANSHIP SHALL CONFORM TO THE CODES AND STANDARDS OF ASTM AND SINGULAR.
2. ALL WORK SHALL BE DONE BY A CERTIFIED WELDER. THE CONTRACTOR SHALL SUBMIT A COPY OF THE CERTIFICATION TO BLACK & VEATCH.
3. ALL STEEL USED SHALL BE HOT DIPPED GALVANIZED.
4. STRUCTURAL STEEL GRATING SHALL BE 1/4" x 3/16" GALVANIZED STEEL BAR GRATING (KG BORDEN TYPE-WB OR EQUAL) ATTACHED AT 1'-6" ON CENTER WITH GRATING CLAMPS, UNLESS NOTED OTHERWISE.

**ANTENNAS AND CABLES**

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER STORAGE AND HANDLING OF ALL MATERIALS ONCE THEY HAVE BEEN RELEASED FROM THE WAREHOUSE.
2. INSTALLATION OF ALL MATERIALS SHALL BE DONE IN STRICT ADHERENCE TO MANUFACTURER'S RECOMMENDATIONS.
3. TOWER TECHNICIANS SHALL BE CURRENT ANDREWS CERTIFIED FOR CABLE CONNECTOR INSTALLATIONS.
4. THE CONTRACTOR SHALL PERFORM THE SWEEP TESTING WITH A WILTRON METAL 330 OR EQUAL AND PROVIDE TWO COPIES TO BLACK & VEATCH. THE REQUIREMENTS FOR THE TESTING RESULTS SHALL BE ISSUED FROM BLACK & VEATCH PRIOR TO THE START OF THE PROJECT. THE CONTRACTOR SHALL FILL OUT THE FORM ON SHEET E-5 OF THIS DOCUMENT SET. (SEE PART 4)
5. THE CONTRACTOR SHALL REPLACE, AT HIS/HER EXPENSE, ANY CABLES, CONNECTORS, JUMPERS, PHASERS, AND ANY OTHER ITEMS OR MATERIALS THAT THE CONTRACTOR DAMAGES. IF A FAULTY PIECE OF MATERIAL OR EQUIPMENT IS FOUND, BLACK & VEATCH SHALL REPLACE IT, BUT THE CONTRACTOR IS RESPONSIBLE TO REINSTALL IT AT THE CONTRACTOR'S EXPENSE. IT IS STRONGLY RECOMMENDED THAT THE CONTRACTOR SWEEP ALL ITEMS PRIOR TO INSTALLATION.
6. THE FOLLOWING TABLE SHALL BE USED TO DETERMINE THE MINIMUM-BENDING RADIUS OF EACH CABLE:

ANTENNA TRANSMISSION LINE BENDING RADII		
DIAM. OF CABLE	LPF#	RADIUS
1/2	4	5"
7/8	5	10"
1-1/4	6	15"
1-5/8	7	20"

7. THE CONTRACTOR SHALL RUN ALL LINES AND CONDUITS IN A NEAT, ORDERLY AND STRAIGHT FASHION PROVIDING ANCHORING AS RECOMMENDED BY THE MANUFACTURER AND WHEREVER NECESSARY TO SUPPORT THE LINES PROPERLY.

**WARRANTIES**

1. THE CONTRACTOR SHALL WARRANTY ALL GENERAL WORK FOR A MINIMUM OF 18 MONTHS OR AS STATED ELSEWHERE IN THE CONTRACT.
2. ROOF WARRANTY: ALL WORK ON ROOFS SHALL BE PERFORMED IN FULL COMPLIANCE WITH THE ROOF MANUFACTURER AND CONTRACTOR SHALL OBTAIN WRITTEN VERIFICATION FROM ROOF MANUFACTURER THAT THE WARRANTY REMAINS VALID AFTER CONSTRUCTION IS COMPLETE.

**ELECTRICAL**

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITTING, FILING, AND FEES IN CONJUNCTION WITH THE PROJECT.
2. THE CONTRACTOR SHALL SCHEDULE ALL NECESSARY INSPECTIONS WITH THE PROPER AUTHORITIES AND INFORM BLACK & VEATCH 48- HOURS IN ADVANCE. ALL TICKETS AND INSPECTION VERIFICATIONS SHALL BE SUBMITTED TO BLACK & VEATCH WITHIN 24 HOURS AFTER THE INSPECTION HAS TAKEN PLACE.
3. ALL LABOR AND MATERIAL SHALL CONFORM TO ALL LOCAL, STATE, AND NATIONAL CODES, RULES, REGULATIONS AND STANDARDS.
4. ALL EQUIPMENT, WIRING, AND MATERIALS SHALL HAVE A UL LABEL.
5. ALL WORK SHALL BE DONE BY QUALIFIED AND EXPERIENCED JOURNEYMEN AND PERFORMED IN A WORKMANLIKE MANNER AND SHALL PROCEED IN AN ORDERLY MANNER SO AS NOT TO HOLD UP THE PROGRESS OF THE PROJECT.
6. THOROUGHLY TEST ALL LINES, FEEDERS, EQUIPMENT, AND DEVICES WITH MAXIMUM LOADS TO ASSURE PROPER OPERATION.
7. CONDUITS AND FITTINGS FOR OUTSIDE APPLICATIONS SHALL BE RIGID OR NON-METALLIC UNLESS OTHERWISE NOTED. CONDUITS AND FITTINGS FOR INSIDE BUILDING RUNS ABOVE CEILINGS SHALL BE EMT. SUPPORT ALL CONDUITS WITHIN 3 FEET OF ALL JUNCTION BOXES AND AT 8-FOOT INTERVALS OR LESS AS NEEDED WITH APPROVED ANCHORING DEVICES.
8. ALL WIRES SHALL BE COPPER; USE OF ALUMINUM CONDUCTORS SHALL NOT BE PERMITTED. SEE ELECTRICAL PLANS FOR SIZING AND LOCATIONS. USE PROPER SIZE CONNECTORS PER LOCAL, STATE, AND NATIONAL CODES.
9. CONDUCTOR LENGTHS SHALL BE CONTINUOUS FROM TERMINATION TO TERMINATION WITHOUT SPLICES.
10. PROVIDE PULL BOXES WHERE SHOWN AND WHERE REQUIRED BY CODES AND UTILITY COMPANIES.
11. ALL CONDUIT ROUGH IN SHALL BE COORDINATED WITH THE MECHANICAL EQUIPMENT TO AVOID LOCATION CONFLICTS. CONTRACTOR SHALL VERIFY ALL LOCATIONS.
12. ALL WIRES SHALL BE TAGGED AT ALL PULL BOXES, J-BOXES, EQUIPMENT BOXES, AND CABINETS WITH APPROVED PLASTIC TAGS.
13. ALL BREAKERS IN LOAD CENTER SHALL BE IDENTIFIED WITH TYPE WRITTEN LABELS NEATLY PLACED ALONG SIDE OF THE BREAKER.
14. ALL GROUND BUS BARS SHALL BE 1/4" x 4" x 20" UNLESS OTHERWISE NOTED AND SHALL BE TINNED COPPER AND LARGE ENOUGH TO ACCOMMODATE THE REQUIRED NUMBER OF GROUNDING CONNECTIONS. THE HARDWARE SECURING ALL GROUND BARS SHALL BOND THEM TO THE STRUCTURE TO WHICH THEY ARE FASTENED.
15. ANY PENETRATIONS THROUGH WALLS, CEILINGS, FLOORS, ROOFS OR ANY OTHER SURFACE SHALL BE CORE DRILLED AND CLOSED WITH A UL RATED FIRE SAFING ASSEMBLY. IF A FIRE RATING IS NOT REFERRED TO ON THE DRAWINGS, THEN THE CONTRACTOR SHALL ASSUME A 1-HOUR RATING.
16. THE MATERIALS AND EQUIPMENT INFORMATION ON THESE DRAWINGS IS BASED ON THE BEST AVAILABLE INFORMATION AT THE TIME THE DRAWINGS WERE ISSUED. CHANGES MAY OCCUR, AND THE CONTRACTOR SHALL VERIFY ALL ITEMS PRIOR TO PLACEMENT, AND MAKE ANY CORRECTIONS WITHOUT FURTHER COST TO BLACK & VEATCH.
17. ALL UNDERGROUND CONDUITS SHALL BE SCHEDULE 40 PVC. ALL SWEEPS OR BENDS, AND ABOVE-GROUND CONDUITS SHALL BE RIGID GALVANIZED STEEL OR PVC SCHEDULE 80. ALL CONDUITS NOT TERMINATING INTO A CLOSED AREA SHALL BE SEALED TO PREVENT ENTRY OF ANY MOISTURE OR FOREIGN OBJECTS. ALL CONDUIT RISERS TO INCLUDE SLIP TYPE EXPANSION JOINT.

**GROUNDING**

1. THE CONTRACTOR SHALL VERIFY WITH BLACK & VEATCH THAT ALL CONDUIT SYSTEMS, EQUIPMENT, DEVICES, PANELS, LINES, TRAYS, BRIDGES, PLATFORMS, AND ANY/ALL ITEMS ARE GROUNDED PROPERLY.
2. THE GROUNDING SYSTEM CONNECTIONS SHALL BE MADE WITH EXOTHERMIC WELDS AND/OR MECHANICAL TWO-LUG COMPRESSION CONNECTORS AS INDICATED ON PLANS. USE ONLY STAINLESS STEEL SCREWS, BOLTS WASHERS, AND NUTS FOR FASTENING.
3. CLEAN SURFACES THOROUGHLY BEFORE APPLYING GROUND LUGS OR CLAMPS. IF SURFACE IS COATED, THE COATING SHALL BE REMOVED DOWN TO THE BARE METAL. AFTER THE COATING HAS BEEN REMOVED, APPLY A NON-CORROSIVE APPROVED COMPOUND TO THE CLEANED SURFACE AND INSTALL LUGS OR CLAMPS. WHERE GALVANIZING IS REMOVED FROM METAL, IT SHALL BE PAINTED OR TOUCHED UP WITH COLD GALVANIZING PAINT SUCH AS GLAVMOX OR EQUAL.
4. ALL CLAMPS, SLEEVES, AND SUPPORTS USED TO SUPPORT OR CHANNEL THE GROUNDING SYSTEM CONDUCTORS AND PVC CONDUITS SHALL BE PVC TYPE NON-CONDUCTIVE. DO NOT USE METAL BRACKETS OR SUPPORTS THAT WOULD FORM A COMPLETE RING AROUND ANY GROUNDING CONDUCTOR.
5. ALL GROUNDING CONNECTIONS SHALL BE COATED WITH T&B KOPR SHIELD ANTI-CORROSIVE AGENT. NO SUBSTITUTIONS ARE PERMITTED. VERIFY THE PRODUCT WITH BLACK & VEATCH PRIOR TO USAGE.
6. GROUND THE ANTENNA BASES, FRAMES, CABLE TRAYS AND RACKS, AND ANY OTHER METALLIC COMPONENTS WITH #2 GROUNDING CONDUCTORS, AND CONNECT TO THE SURFACE-MOUNTED GROUND BARS. CONNECTION DETAILS SHALL BE PERFORMED PER THE MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
7. THE ANTENNA CABLES SHALL BE GROUNDED AT THE TOP AND BOTTOM OF THE VERTICAL RUN FOR LIGHTNING PROTECTION. THE ANTENNA CABLE SHIELD SHALL BE BONDED TO A COPPER GROUND BUS AT THE LOWERMOST POINT OF A VERTICAL RUN JUST BEFORE IT BEGINS TO BEND TOWARD THE HORIZONTAL PLANE. WIRE RUNS TO GROUND SHALL BE KEPT AS STRAIGHT AND SHORT AS POSSIBLE. THE ANTENNA CABLE SHIELD SHALL BE GROUNDED JUST BEFORE ENTERING THE CELL CABINET. ANY ANTENNA CABLES OVER 200 FEET IN VERTICAL LENGTH SHALL ALSO BE EQUIPPED WITH ADDITIONAL GROUNDING AT MID-POINT.
8. ALL INSTALLATIONS SHALL BE FIELD VERIFIED. THE GROUNDING PLAN SHOWN REPRESENTS THE MINIMUM ACCEPTABLE PER CLIENT SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR FINAL GROUNDING SYSTEM DESIGN SPECIFIC TO THIS SITE.
9. THE CONTRACTOR, UPON COMPLETION OF THE GROUNDING SYSTEM INSTALLATION, SHALL SCHEDULE A TEST OF THE SYSTEM. BLACK & VEATCH' REPRESENTATIVE SHALL BE INFORMED 48 HOURS IN ADVANCE OF THE TEST.

**PART 2 - PRODUCTS**

**2.1 GENERAL**

- A. GENERAL REQUIREMENTS: ALL MATERIALS AND EQUIPMENT SHALL BE IN ACCORDANCE WITH CONTRACT DOCUMENTS AND STANDARD PRODUCTS OF THE VARIOUS MANUFACTURERS, WITH ALL MATERIALS AND EQUIPMENT TO BE NEW, CLEAN, UNMATERIALIZED, AND FREE OF DEFECTS AND CORROSION.
- B. ACCEPTABLE PRODUCTS: THE PRODUCT OF A SPECIFIED OR APPROVED MANUFACTURER SHALL BE ACCEPTABLE ONLY WHEN THE PRODUCT COMPLIES WITH OR IS MODIFIED AS NECESSARY TO COMPLY WITH ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS.
- C. COMMON ITEMS: WHERE MORE THAN ONE OF ANY SPECIFIC ITEM IS REQUIRED, ALL SHALL BE OF THE SAME TYPE AND MANUFACTURER.
- D. UL LISTING: ALL MATERIALS AND EQUIPMENT SHALL BE UNDERWRITERS LABORATORIES (UL) LISTED AND LABELED, WHERE UL STANDARDS AND LISTINGS EXIST FOR SUCH MATERIALS OR EQUIPMENT.

**2.2 RACEWAY SYSTEMS**

- A. RACEWAY SIZING: AS REQUIRED BY NEC (MINIMUM) WITH OVERSIZED RACEWAYS AS INDICATED ON DRAWINGS. MINIMUM CONDUIT SIZE: 3/4 - INCH, UNLESS INDICATED OTHERWISE.
- B. RACEWAY TYPES: RIGID GALVANIZED STEEL CONDUIT, ELECTRICAL METALLIC TUBING (EMT), FLEXIBLE STEEL CONDUIT, LIQUID-TIGHT FLEXIBLE STEEL CONDUIT, SCHEDULE 40 HEAVY WALL, AND SCHEDULE 80 EXTRA- HEAVY WALL RIGID NON-METALLIC (PVC) CONDUIT, CONFORMING TO APPLICABLE ANSI, NEMA AND UL STANDARDS.
- C. FITTINGS: ALL RACEWAY FITTINGS (EXCEPT FOR RIGID NON-METALLIC CONDUIT) TO BE STEEL OR MALLEABLE IRON, AND UL-LISTED FOR THE INTENDED APPLICATION. EMT FITTING TO BE COMPRESSION TYPE.
- D. OUTLET BOXES (SURFACE MOUNTED): CADMIUM PLATED CAST OR MALLEABLE IRON.
- E. PULL AND JUNCTION BOXES AND WIREWAYS: USE AS INDICATED AND REQUIRED. JUNCTION BOXES FOR GENERAL INDOOR USE (DRY LOCATIONS) TO BE OF GALVANIZED CODE GAUGE STEEL CONSTRUCTION MINIMUM 4" SQUARE x 1 1/2" DEEP WITH SCREW-ON COVERS. WIREWAYS TO BE UL LISTED, SHEET STEEL CONSTRUCTION WITH SCREW-ON COVERS. FOR EXTERIOR AND DAMP OR WET INDOOR LOCATIONS, USE BOXES AND WIREWAYS APPROVED FOR SUCH USE.
- F. PIPE SLEEVES: RIGID STEEL CONDUIT OR IRON PIPE.

- G. CONDUIT SEALS FOR CAST-IN-PLACE CONCRETE APPLICATIONS - ACCEPTABLE MANUFACTURERS: 0-Z/GEDNEY TYPE "FSK"; THUNDERLINE CORPORATION "LINK SEAL" WITH "LINK SEAL WALL SLEEVE. FOR CORE-DRILLED AND PRE-CAST OPENING APPLICATIONS - ACCEPTABLE MANUFACTURERS: 0-Z / GEDNEY TYPE "CSML" THUNDERLINE CORP. "LINK SEAL" H. SWEEPS: ALL SWEEPS FOR COMMUNICATION EQUIPMENT OR INTO CONCRETE PAD SHALL BE MIN. 24" RADIUS.

**2.3 CONDUCTORS - 600 VOLT AND BELOW**

- A. GENERAL: SINGLE-CONDUCTOR 98% CONDUCTIVITY, ANNEALED, UNCOATED COPPER CONDUCTORS WITH 600-VOLT RATED TYPE "THHN/THWN" INSULATION.
- B. CONNECTORS: NYLON SHELL INSULATED METALLIC SCREW-ON CONNECTORS FOR #14-#10 AWG, AND BOLTED PRESSURE OR COMPRESSION TYPE LUGS AND CONNECTORS WITH INSULATING COVERS FOR #8 AWG AND LARGER.

**2.4 HANGERS AND SUPPORTS**

- A. GENERAL: ALL HANGERS, SUPPORTS, FASTENERS AND HARDWARE SHALL BE HOT-DIPPED GALVANIZED OR EQUIVALENT CORROSION RESISTANCE BY TREATMENT, AND SHALL BE MANUFACTURED PRODUCTS DESIGNED FOR THE APPLICATION.
- B. TYPES: HANGERS, STRAPS, RISER SUPPORTS, CLAMPS, U-CHANNEL, THREADED RODS, ETC. AS INDICATED OR REQUIRED.

**2.5 ELECTRICAL IDENTIFICATION**

- A. NAMEPLATES: THREE-LAYER LAMINATED PLASTIC WITH MINIMUM 3/16" HIGH WHITE ENGRAVED CHARACTERS ON BLACK BACKGROUND AND PUNCHED FOR MECHANICAL FASTENING.
- B. FASTENERS: SELF-TAPPING STAINLESS-STEEL SCREWS OF NUMBER 10-32 STAINLESS STEEL MACHINE SCREWS WITH NUTS AND FLAT LOCK WASHERS.
- C. UNDERGROUND WARNING TAPE: SIX-INCH WIDE POLYETHYLENE TAPE, PERMANENTLY BRIGHT COLORED WITH CONTINUOUS-PRINTED LEGEND INDICATING GENERAL TYPE OF UNDERGROUND LINE BELOW AND "CAUTION". COLORS AS FOLLOWS: 1) RED = ELECTRIC, 2) ORANGE = COMMUNICATIONS.
- D. MARKING PENS: PERMANENT, WATERPROOF, QUICK DRYING BLACK INK. ACCEPTABLE MANUFACTURERS: SANFORD FINE POINT "SHARPIE," OR EQUAL.
- E. WIRE TAGS: VINYL OR VINYL-CLOTH SELF-ADHESIVE WRAPAROUND TYPE INDICATING APPROPRIATE CIRCUIT NUMBER, ETC.

**2.6 ENCLOSURES**

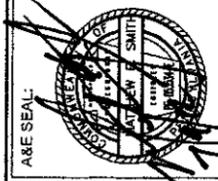
- A. DRY LOCATION, INDOOR - NEMA 1.
- B. WET LOCATION OR OUTDOOR - NEMA 3R.

**2.7 GROUNDING**

- A. SYSTEM DESCRIPTION: GROUNDING NETWORK SYSTEM SHALL ESTABLISH AN EARTH-RESISTANCE TO THE REFERENCE GROUND POINT NOT TO EXCEED 5 OHMS FOR BUILDING, CONSISTING OF BONDING OF STRUCTURE AND OTHER METAL OBJECTS INCLUDING GROUNDING ELECTRODES AND INTERCONNECTING CONDUCTORS. THIS SHALL BE PERFORMED WITH THE 3 POINT TEST METHOD.
- B. MATERIAL - INDICATED AS FOLLOWING:
  1. WATER SERVICE METALLIC PIPE
  2. BUILDING STEEL



RED SWING GROUP  
4154 OLD WILLIAM PENN HWY  
SUITE 300  
MURRYSVILLE, PA 15068  
OFFICE: 724-325-1215



AME SEAL

BLACK & VEATCH  
700 HOLLY DRIVE  
SUITE 550  
PITTSBURGH, PA 15220  
(412) 387-8000

MIDWEST STATE  
COMMUNITY WIRELESS  
630 BANNER DRIVE, 1100  
COLUMBIANA, OHIO  
(614) 686-1000



AT&T

SITE NO.: P470  
SITE NAME: EAST CARSON ST. (ROOF TOP)  
1611 EAST CARSON STREET  
PITTSBURGH, PA 15203

ADDITIONAL EDUCATION OR REGISTRY BY PARTIES TO THE CONSTRUCTION  
DRAWINGS DOES NOT CONSTITUTE ALTERATION OF THESE TERMS. THE  
BY HAVING ANY USE OR CONSULTING OTHER THAN THAT WHICH RELATES TO  
CLEAR THESE STRICTLY PROHIBITED. IT IS A VIOLATION OF LAW FOR ANY  
PERSON, FIRM OR CORPORATION TO REPRODUCE, TRANSMIT, OR OTHERWISE  
PROFESSIONAL ENGINEER TO ALTER THIS DOCUMENT.

REVISIONS:	DATE	DESCRIPTION
1	11/02/2012	ISSUED FOR CONSTRUCTION
2	1/9/2012	ISSUED FOR REVIEW
3	12/26/2011	REVISED PER COMMUNITY MEETING GROUP COMMENTS
4	8/24/2011	RELOCATED ANTENNAS MOUNTING LOCATIONS
5	6/15/2011	UPDATED EQUIPMENT ROOM DESIGN PER CLIENT COMMENTS
6	5/17/2011	ISSUED FOR CITY SUBMISSION
7	4/28/2011	ISSUED FOR CLIENT REVIEW

PROJ. NO.: 1067  
SCALE: AS NOTED  
DATE: 4/11/2011  
DRAWN BY: JLD  
CHECKED BY: JLD  
APPROVED BY: MES

SHEET TITLE:  
**GENERAL NOTES**

SHEET NO.  
**GN-2**

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3. CONDUCTORS: COPPER STRANDED OR SOLID TINNED BARE SIZE AS INDICATED
4. GROUND RODS: 5/8" DIA. X 10'-0" LONG COPPER CLAO GROUND ROD
5. CHEMICAL GROUND RODS: XIT GROUND ROD 10'-0" STRAIGHT SHAFT TYPE
6. COMPRESSION: HYGROUND AS MANUFACTURED BY FCI BURNDY. CONNECTIONS SHALL BE PROTECTED FROM CORROSION AS MANUFACTURED BY ZRC CHEMICAL PRODUCTS CO., AS NEEDED.
7. CONNECTIONS: DOUBLE HOLE LUGS FOR ALL MECHANICAL CONNECTIONS.
8. EXOTHERMIC: CADWELD WITH PROPER MOLDS

### 2.8 SAFETY SWITCHES

- A. GENERAL: HEAVY DUTY HORSEPOWER RATED, FULLY ENCLOSED, FUSIBLE (WITH REJECTION FUSE CLIPS) OR NON-FUSED AS INDICATED, QUICK-MAKE, QUICK BREAK SWITCHING MECHANISM INTERLOCKED WITH COVER, AND NEMA1 ENCLOSURE FOR DRY LOCATIONS, AND NEMA 3R ENCLOSURE FOR OUTDOOR LOCATIONS, UNLESS INDICATED OTHERWISE. SWITCHES TO BE LABELED AS "SUITABLE FOR USE AS SERVICE ENTRANCE EQUIPMENT", WHERE REQUIRED.
- B. RATINGS: VOLTAGE, PHASES, AMPERAGES AND FUSING AS INDICATED.
- C. IN THE FUSED CONFIGURATION, SWITCHES SHALL HAVE AN INTERRUPTING CAPACITY OF AT LEAST 100,000 AMPS SYMMETRICAL AT SIX HUNDRED (600) VOLTS WHEN USED WITH CLASS RK5 TIME DELAY CURRENT LIMITING FUSES, AND 200,000 AMPS SYMMETRICAL AT 600 VOLTS WHEN USED WITH CLASS RK1 CURRENT LIMITING FUSES.
- D. GUARDS: LINE SHIELD GUARDS TO PREVENT CONTACT WITH LIVE PARTS.
- E. CONTACTS: SILVER ALLOY; SWITCH BLADES SHALL BE DE-ENERGIZED IN THE OPEN POSITION.
- F. LUGS: SOLDERLESS TYPE.
- G. REJECTION FUSE CLIPS: PROVIDE FOR FUSIBLE SWITCHES (30-600A) TO PREVENT THE INSTALLATION OF CLASS H AND CLASS K NON-CURRENT-LIMITING FUSES.
- H. ACCEPTABLE MANUFACTURER: GENERAL ELECTRIC, SQUARE D, SIEMENS.

### 2.9 FUSES

- A. UL CLASS RK1, 250 VOLT OR 600 VOLT AS REQUIRED FOR SYSTEM VOLTAGE, DUAL ELEMENT, TIME DELAY, CURRENT-LIMITING, 200,000 AIC, AMPERE RATINGS AS INDICATED. SIZE AND QUANTITY AS INDICATED ON POWER DIAGRAM.
- B. ACCEPTABLE MANUFACTURERS: BUSSMANN "FUSETRON", OR EQUAL BY FERRAZ SHAWMUT.

### 2.10 CIRCUIT BREAKERS

- A. GENERAL: MOLDED CASE WITH THERMAL AND MAGNETIC TRIPS UNLESS INDICATED OTHERWISE. MINIMUM 10,000 AMPS INTERRUPTING CAPACITY, HIGHER RATINGS AS INDICATED OR REQUIRED BY AVAILABLE FAULT CURRENT.
- B. CIRCUIT BREAKERS FOR EXISTING EQUIPMENT SHALL BE FROM THE SAME MANUFACTURER AS THE ORIGINAL EQUIPMENT.

### 2.11 LOAD CENTER / PANELBOARDS

- A. TWO-ROW CIRCUIT BREAKER WITH MAINS, RATINGS AND BRANCH DEVICES AS INDICATED.
- B. MINIMUM 10,000 AIC FOR 208V/240V UNLESS OTHERWISE NOTED.
- C. LOCKABLE COVER, COPPER BUS.
- D. LOAD CENTER SHALL HAVE MAIN CIRCUIT BREAKER (LOCKABLE IN ON & OFF POSITIONS).
- E. COPPER BUS BARS (ALUMINUM COMPONENTS IN ELECTRICAL DEVICES IS PROHIBITED), ISOLATED NEUTRAL BUS AND FULL SIZE GROUNDING BUS.
- F. ACCEPTABLE MANUFACTURERS: GE, SQUARE D, SIEMENS, OR EQUIVALENT.

### 2.12 DEVICES

- A. SWITCHES: 20AMP, 120-277 VOLTS, A.C. ONLY TOGGLE TYPE, SINGLE POLE, DOUBLE POLE, 3-WAY, OR 4-WAY TIMER STYLE AS INDICATED OR REQUIRED.
- B. RECEPTACLES: 20 AMP, 125V, NEMA 5-20V DUPLEX TYPE. FOR INDOOR MOUNTED, USE STAINLESS STEEL COVER. FOR OUTDOOR OR WET LOCATION MOUNTED, USE DEVICE RATED FOR USE. PROVIDE GFCI TYPE WITH SOLID STATE GROUND FAULT SENSING & 5 MA TRIP FOR OUTDOOR OR WET LOCATIONS.
- C. AUXILIARY POWER (GENERATOR INLET): PROVIDE 3-POLE, 4W, 125/250 VOLT FLANGED INLET, BACKBOX AND CLOSURE PLUG AT EXTERIOR OF BUILDING WALL (APPLETON #AJA20033-200RS WITH MATCHING BACKBOX AND CLOSURE PLUG).

### 2.13 CABLE TRAY

- A. PROVIDE A COMPLETE CABLE TRAY SYSTEM WITH BENDS, FITTINGS, ACCESSORIES, ETC. AS REQUIRED.
- B. DESCRIPTION: ALUMINUM ALLOY CONSTRUCTION. TYPE: LADDER WITH 12" MAXIMUM SPACING. DEPTH: MINIMUM 4". WIDTH: AS INDICATED ON DRAWINGS, (MINIMUM 12" HORIZONTAL RUNS, MINIMUM 6" VERTICAL RUNS). SUPPORT SPAN: 8 FOOT MINIMUM, UNLESS OTHERWISE NOTED. LOADING: 100 POUNDS/FOOT. RADIUS: 36" MINIMUM, (SMALLER RADIUS MAY BE PERMITTED IF APPROVED BY GENERAL DYNAMICS). COVER: VENTILATED .063 ALUMINUM, PROVIDE WHERE INDICATED.
- C. GROUNDING: BOND ALL TRAY SECTIONS USING #2 AWG BARE COPPER GROUND.
- D. ACCEPTABLE MANUFACTURERS: NEWTON INSTRUMENTS OR EQUIVALENT

### 2.14 SURGE SUPPRESSION

- A. PRODUCTS MANUFACTURED BY ATLANTIC SCIENTIFIC.
- B. FURNISHED BY BLACK & VEATCH. INSTALLED BY CONTRACTOR.

## PART 3 - EXECUTION

### 3.1 GENERAL

- A. THE INSTALLATION OF ALL WORK SHALL BE IN ACCORDANCE WITH THE INTENT OF THE CONTRACT DOCUMENTS.
- B. INSTALLATION REQUIREMENTS: ALL MATERIALS AND EQUIPMENT SHALL BE INSTALLED AS RECOMMENDED BY THE RESPECTIVE MANUFACTURERS, BY MECHANICS EXPERIENCED AND SKILLED IN THEIR TRADE, IN A NEAT AND WORKMANLIKE MANNER IN ACCORDANCE WITH THE STANDARDS OF THE TRADE, AND SO AS NOT TO VOID ANY WARRANTY OF UL LISTING.
- C. ADMINISTRATION AND SUPERVISION: ALL WORK SHALL BE PERFORMED UNDER THE CONTRACTOR'S DIRECT SUPERVISION, USING SUFFICIENT AND QUALIFIED PERSONNEL AS NECESSARY TO COMPLETE THE WORK IN ACCORDANCE WITH THE PROGRESS SCHEDULE. THE CONTRACTOR SHALL ASSIGN ONE OR MORE COMPETENT SUPERVISORS WHO SHALL HAVE AUTHORITY TO ACCEPT AND EXECUTE ORDERS AND INSTRUCTIONS, AND WHO SHALL COOPERATE WITH THE OTHER CONTRACTORS AND SUBCONTRACTORS, THE ENGINEER, AND BLACK & VEATCH IN ALL MATTERS TO RESOLVE CONFLICTS AND AVOID DELAYS.
- D. MINIMUM MOUNTING HEIGHT: INSTALL EXPOSED RACEWAY AND ALL OTHER EQUIPMENT (EG. LIGHTING FIXTURES) WITH NOT LESS THAN 7'-6" CLEAR TO FINISHED FLOOR, UNLESS INDICATED OR APPROVED OTHERWISE, AND EXCLUDING RACEWAY AND EQUIPMENT MOUNTED ON WALLS.
- E. DIMENSIONS AND CLEARANCES: FIELD MEASURE ALL DIMENSIONS AND CLEARANCES AFFECTING THE INSTALLATION OF ELECTRICAL WORK, IN RELATION TO ESTABLISHED DATUM, BUILDING OPENINGS AND CLEARANCES, AND WORK OF OTHER TRADES, AS CONSTRUCTION PROGRESSES.

### 3.2 EXAMINATION

- A. CONDITIONS VERIFICATION: EXAMINE THE AREAS AND CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED, AND IDENTIFY ANY CONDITIONS DETRIMENTAL TO THE PROPER AND TIMELY COMPLETION OF THE WORK. DO NOT PROCEED UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.

### 3.3 COORDINATION

- A. GENERAL: SEQUENCE, COORDINATE AND INTEGRATE THE INSTALLATION OF ALL MATERIALS AND EQUIPMENT FOR EFFICIENT FLOW OF WORK, IN CONJUNCTION WITH THE OTHER TRADES. REVIEW THE DRAWINGS FOR WORK OF THE OTHER TRADES, AND REPORT AND RESOLVE ANY DISCOVERED DISCREPANCIES, PRIOR TO COMMENCING WORK.
- B. COOPERATION: COOPERATE WITH THE OTHER CONTRACTORS AND INDIVIDUAL DISCIPLINES FOR PLACEMENT, ANCHORAGE, AND ACCOMPLISHMENT OF THE WORK. RESOLVE INTERFERENCES BETWEEN WORK OF OTHER DISCIPLINES OR CONTRACTORS PRIOR TO COMMENCING INSTALLATION.
- C. SUPPORTS AND SLEEVES: COORDINATE THE INSTALLATION OF REQUIRED SUPPORTING DEVICES AND SLEEVES TO BE SET IN POURED-IN-PLACE CONCRETE AND OTHER STRUCTURAL COMPONENTS, AS THEY ARE CONSTRUCTED.
- D. OBSTACLES AND INTERFERENCES: WHEN INSTALLING EQUIPMENT AND RACEWAYS, PROVIDE OFFSETS, FITTINGS, ACCESSORIES, AND CHANGES IN ELEVATION OR LOCATION AS NECESSARY TO AVOID OBSTACLES AND INTERFERENCES, PER ACTUAL FIELD CONDITIONS.

### 3.4 EQUIPMENT PROTECTION

- A. PROTECT ALL EQUIPMENT, MATERIALS, AND WORK FROM THE WEATHER ELEMENTS, PAINT, MORTAR, CONSTRUCTION DEBRIS AND DAMAGE, UNTIL PROJECT IS SUBSTANTIALLY COMPLETE. REPAIR, REPLACE, CLEAN, AND RETURN TO ORIGINAL CONDITION ALL DAMAGED AREAS, EQUIPMENT, UTILITIES, ETC., AND WORK SO AFFECTED.

### 3.5 LAYOUT

- A. GENERAL: INSTALL MATERIALS AND EQUIPMENT LEVEL AND PLUMB, AND PARALLEL AND PERPENDICULAR TO OTHER BUILDING SYSTEMS AND COMPONENTS, WHERE INSTALLED EXPOSED.
- B. SERVICEABILITY: INSTALL EQUIPMENT AND RACEWAYS, ETC. TO READILY FACILITATE SERVICING, MAINTENANCE, AND REPAIR OR REPLACEMENT OF COMPONENTS, AND SO AS TO MINIMIZE INTERFERENCE WITH OTHER EQUIPMENT AND INSTALLATIONS.
- C. CLEARANCES: PRIOR TO COMMENCING WORK, VERIFY THAT ALL EQUIPMENT WILL ADEQUATELY FIT AND CONFORM TO THE INDICATED AND CODE REQUIRED CLEARANCES, IN THE SPACES INDICATED ON THE DRAWINGS. IF REARRANGEMENT IS REQUIRED, SUBMIT PLAN AND ELEVATION DRAWINGS OR SKETCHES INDICATING PROPOSED REARRANGEMENT, FOR THE ENGINEER'S APPROVAL. DO NOT REARRANGE WITHOUT EXPRESSED WRITTEN PERMISSION OF THE ENGINEER.

- D. RIGHT-OF-WAY: WHEN LAYING OUT WORK, GIVE FIRST PRIORITY TO COMMUNICATIONS WIRING, AND NEXT PRIORITY TO STEAM AND CONDENSATE LINES, SANITARY LINES, DRAIN LINES, FIRE PROTECTION PIPING, AND SHEET METAL DUCT WORK. PROVIDE OFFSETS AS REQUIRED TO AVOID CONFLICTS. RESOLVE ALL CONFLICTS BEFORE COMMENCING INSTALLATION.

### 3.6 MOUNTING HEIGHTS

- A. GENERAL: INDICATED HEIGHTS ARE MEASURED FROM THE CENTER OF THE DEVICE OUTLET BOX TO THE FINISHED FLOOR OR GRADE, UNLESS INDICATED OTHERWISE. REQUEST INSTRUCTIONS FOR MOUNTING HEIGHTS NOT INDICATED.
- B. DEVICES: SWITCHES - 48" A.F.F. | RECEPTACLES - 18" A.F.F. | THERMOSTAT - 48" A.F.F.

### 3.7 HOLES, SLEEVES, AND OPENINGS

- A. GENERAL: PROVIDE ALL HOLES, SLEEVES, AND OPENINGS REQUIRED FOR THE COMPLETION OF WORK, AND RESTORE ALL DAMAGED SURFACES TO MATCH SURROUNDING SURFACES. MAINTAIN INTEGRITY OF ALL FIRE AND SMOKE RATED BARRIERS USING APPROVED FIRESTOPPING SYSTEMS. WHEN CUTTING HOLES OR OPENINGS, OR INSTALLING SLEEVES, DO NOT CUT, DAMAGE OR DISTURB STRUCTURAL ELEMENTS OR REINFORCING STEEL, UNLESS APPROVED IN WRITING BY THE PROJECT STRUCTURAL ENGINEER.
- B. CONDUIT PENETRATIONS: SIZE CORE DRILLED HOLES SO THAT AN ANNULAR SPACE OF NOT LESS THAN 1/4" AND NOT MORE THAN 1" IS LEFT AROUND THE CONDUIT. WHEN OPENINGS ARE CUT IN LIEU OF CORE DRILLED, PROVIDE SLEEVE IN ROUGH OPENING. SIZE SLEEVES TO PROVIDE AN ANNULAR SPACE OF NOT LESS THAN 1/4" AND NOT MORE THAN 1" AROUND THE CONDUIT, PIPE, ETC. PATCH AROUND SLEEVE TO MATCH SURROUNDING SURFACES.

### 3.8 RACEWAY SYSTEMS

- A. UNLESS INDICATED OTHERWISE, USE RACEWAY TYPES AS FOLLOWS:
  - 1) OUTDOORS, EXPOSED: RIGID GALVANIZED STEEL CONDUIT AND SUNLIGHT RESISTANT SCHEDULE 40, WHERE NOT SUBJECT TO PHYSICAL DAMAGE.
  - 2) LIQUID TIGHT FLEXIBLE STEEL CONDUIT: USE WHERE FLEXIBLE STEEL CONDUIT CONNECTIONS ARE REQUIRED IN DRY, DAMP, WET, OR OILY LOCATIONS, FOR CONNECTIONS TO TRANSFORMERS, VIBRATING EQUIPMENT, EQUIPMENT REQUIRING MINOR ADJUSTMENTS IN POSITIONS, AND FOR FINAL CONNECTIONS TO ALL MOTORS AND SIMILAR EQUIPMENT.
- B. RACEWAY ROUTING: AS REQUIRED BY JOB CONDITIONS UNLESS SPECIFIC ROUTES OR DIMENSIONED POSITIONS ARE INDICATED ON THE DRAWINGS. INSTALL TIGHT TO SLAB, BEAMS, AND JOISTS WHEREVER POSSIBLE. ROUTE EXPOSED CONDUIT, AND CONDUIT INSTALLED ABOVE CEILINGS, PARALLEL OR PERPENDICULAR TO WALLS, CEILINGS, AND STRUCTURAL MEMBERS. INSTALL TO MAINTAIN MINIMUM HEADROOM AND TO PRESENT A NEAT APPEARANCE. RUN PARALLEL RACEWAYS TOGETHER WITH BENDS MADE FROM THE SAME CENTERLINE. VERIFY EXACT LOCATIONS OF ALL RACEWAYS, PULL BOXES, AND JUNCTION BOXES. RESOLVE ANY CONFLICTS BEFORE INSTALLATION. DO NOT INSTALL HORIZONTAL CONDUIT RUNS BELOW 7'-6" AFF IN EXPOSED LOCATIONS.
  - 1) DO NOT ROUTE ANY CONDUITS INTO OR THROUGH, STAIRWAYS, ELEVATOR SHAFTS OR ELEVATOR MACHINE ROOM.
  - 2) CONCEAL CONDUITS ABOVE SUSPENDED CEILINGS WHERE POSSIBLE.
  - 3) COORDINATE ALL CONDUIT STUB UPS WITH ROOF TOP EQUIPMENT LAYOUT.
  - 4) COORDINATE INSTALLATIONS OF CONDUITS, EQUIPMENT, ETC. WITH BUILDING OWNER PRIOR TO COMMENCEMENT OF WORK.

- C. RACEWAY INSTALLATION: CUT CONDUIT ENDS SQUARE USING SAW OR PIPECUTTER AND REAM EACH CUT END SMOOTH. CAREFULLY MAKE ALL CONDUIT BENDS AND OFFSETS SO THAT THE INSIDE DIAMETER OF PIPE IS NOT REDUCED. MAKE BENDS SO THAT LEGS ARE IN THE SAME PLANE. MAKE OFFSETS SO THAT LEGS ARE IN THE SAME PLANE AND PARALLEL. PROTECT STUB-UPS FROM DAMAGE, AND CAREFULLY REBEND WHEN NECESSARY.
- D. FITTINGS: MAKE UP ALL RACEWAY FITTINGS TIGHT SO THAT FINAL INSTALLATION OF RACEWAY, FITTINGS AND ENCLOSURES CONSTITUTES A FIRM MECHANICAL ASSEMBLY AND A CONTINUOUS ELECTRICAL CONTINUITY. PROVIDE INSULATING BUSHINGS ON CONDUIT TERMINATIONS.

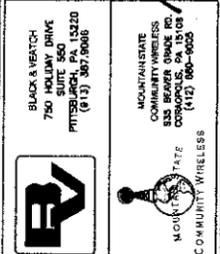
- E. PROTECTION: PROTECT ALL RACEWAYS, ENCLOSURES AND EQUIPMENT DURING CONSTRUCTION TO PREVENT ENTRY OF CONCRETE, DEBRIS AND OTHER FOREIGN MATTER. FREE CLOGGED CONDUITS OF ALL OBSTRUCTIONS, OR REPLACE PRIOR TO PULLING WIRE. DO NOT PULL WIRE WITHIN BUILDINGS UNTIL BUILDINGS ARE COMPLETELY ENCLOSED.
- F. BOXES: INSTALL ALL OUTLET PULL AND JUNCTION BOXES RIGIDLY, PLUMB AND LEVEL. SUPPORT AND SECURE BOXES INDEPENDENTLY FROM CONDUITS TERMINATING AT BOX. INSTALL ALL BOXES SO AS TO BE ACCESSIBLE AND SO THAT COVERS MAY BE EASILY REMOVED.
- G. PROVIDE CAP TO PREVENT ENTRY OF MATERIALS AND MOISTURE FOR ALL SPARE CONDUITS.

- H. CONDUIT SEALS: INSTALL CONDUIT SEAL FOR EACH CONDUIT PENETRATING AT AN EXTERIOR BUILDING WALL, BELOW GRADE (UNLESS PENETRATION IS BELOW LOWEST BUILDING FLOOR SLAB), AND ELSEWHERE AS INDICATED, AND SO AS TO ACHIEVE A SEALED WATERTIGHT INSTALLATION.

- I. RIGID GALVANIZED STEEL CONDUIT SHALL BE USED IN AREAS SUBJECT TO PHYSICAL DAMAGE. CUT ENDS SHALL BE REAMED, THREADED AND COLD GALVANIZED (COMPRESSION FITTINGS WILL NOT BE ACCEPTED).

### 3.9 CONDUCTORS - 600 VOLT AND BELOW

- A. MINIMUM CONDUCTOR SIZE: ALL BRANCH CIRCUIT WIRING SHALL BE MINIMUM #12 AWG. FEEDER CIRCUIT WIRING SHALL BE MINIMUM #2 AWG UNLESS OTHERWISE NOTED. ALL CONTROL CIRCUIT WIRING SHALL BE MINIMUM #14 AWG, UNLESS INDICATED OTHERWISE. PROVIDE LARGER SIZES, AS INDICATED OR REQUIRED. A FULL SIZED EQUIPMENT GROUNDING CONDUCTOR SHALL BE INSTALLED IN POWER AND LIGHTING CONDUITS, (CONDUITS SHALL NOT BE USED AS A GROUNDING CONDUCTOR).
- B. IN RACEWAY: INSTALL ALL WIRING IN CONDUIT OR OTHER SPECIFIED RACEWAY, UNLESS INDICATED OTHERWISE. ROMEX, BX, AC AND MC TYPE CABLES ARE NOT ALLOWED.
- C. TERMINATIONS: FURNISH AND INSTALL TERMINATIONS INCLUDING LUGS IF NECESSARY TO MAKE ALL ELECTRICAL CONNECTIONS INDICATED OR REQUIRED. EXTERIOR AND SWITCHGEAR TERMINATIONS SHALL HAVE AN ANTI-OXIDANT APPLIED. SPRING TYPE WIRE CONNECTORS USED IN EXTERIOR BOXES SHALL BE SILICONE FILLED.



AT&T  
 SITE NO.: P470  
 SITE NAME: EAST CARSON ST. (ROOF TOP)  
 1611 EAST CARSON STREET  
 PITTSBURGH, PA 15203

REVISIONS:	DATE	DESCRIPTION
1	1/16/2012	ISSUED FOR CONSTRUCTION
2	1/16/2012	ISSUED FOR REVIEW
3	12/15/2011	REVISED PER COMMUNITY MEETING GROUP COMMENTS
4	12/15/2011	RELOCATED ANTENNAS MOUNTING LOCATIONS
5	6/15/2011	UPDATED EQUIPMENT ROOM DESIGN PER CLIENT COMMENTS
6	5/17/2011	ISSUED FOR CITY SUBMISSION
7	4/28/2011	ISSUED FOR CLIENT REVIEW
8		
9		

PROJ NO: 1067  
 SCALE: AS NOTED  
 DATE: 4/11/2011  
 DRAWN BY: JLD  
 CHECKED BY: JLD  
 APPROVED BY: MES

SHEET TITLE:  
**GENERAL NOTES**  
 SHEET NO.  
**GN-3**





**HISTORIC REVIEW COMMISSION OF PITTSBURGH**  
**Application for a Certificate of Appropriateness**

DEADLINE:

Completed applications must be received at least 13 working days prior to the HRC hearing, when a hearing is required

STAFF USE ONLY:

DATE RECEIVED: 6/26/12  
 LOT AND BLOCK NUMBER: 12-K-41  
 WARD: 16th  
 FEE PAID: 240

FEE SCHEDULE:

See attached. Please make check payable to:  
 Treasurer, City of Pittsburgh.

**ADDRESS OF PROPERTY:**

2128 East Carson

**DISTRICT:**

**OWNER:**

NAME: McCloskey  
 ADDRESS: 1410 High St  
Pgh Pa 15212  
 PHONE: 412 779 1628  
 EMAIL: John@IFCOLL.com

**APPLICANT:**

NAME: same  
 ADDRESS: \_\_\_\_\_  
 PHONE: \_\_\_\_\_  
 EMAIL: \_\_\_\_\_

**REQUIRED ATTACHMENTS:**

- Drawings     Photographs     Renderings     Site Plan     Other

**DETAILED DESCRIPTION OF PROPOSED PROJECT:**

Renovations to rear of building (see attached scope)

**SIGNATURES:**

OWNER: [Signature] DATE: 6-26-12

APPLICANT: John McCloskey DATE: 6-26-12



John McCloskey  
1410 High Street  
Pittsburgh, PA 15212  
412-779-1628

## **2128 East Carson Street Renovation – Rear Facade**

### **Scope of Work**

1. Existing (2) man doors and storefront will be removed
2. Stucco, brick, and bearing material will be removed from left side wall to right side wall
3. New opening will be reframed with dimensional lumber to create garage door opening and man door.
4. Vinyl siding (White in color) and 1x6 painted trim to be installed. Install 1x12 band board. All trim to be Beige in color.
5. Install new 16'x8' paneled (Beige in color) metal garage door.
6. Install a 6 panel 30" man door (Beige in color).



RESIDENTIAL RENOVATION  
 2128 EAST CARSON ST., PITTSBURGH, PA 15203

EXISTING REAR ELEVATION

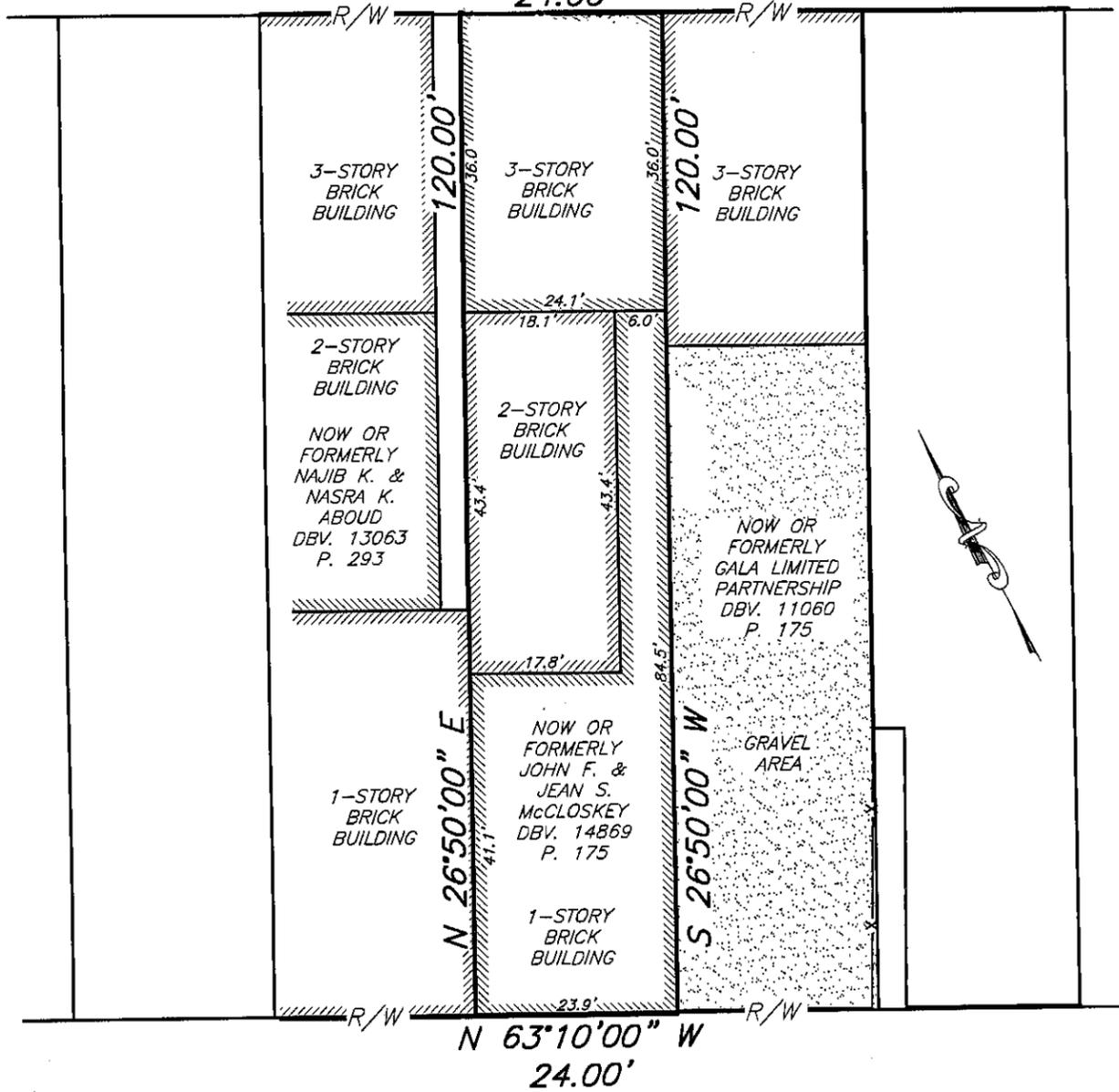
JUNE 25, 2012  
 ISSUED FOR HRC REVIEW

A/4.1

PLAN OF SURVEY PREPARED FOR:  
JOHN McCLOSKEY

**EAST CARSON STREET 80'**

S 63°10'00" E  
24.00'



**CAREY WAY 24'**

PROPERTY ADDRESS:

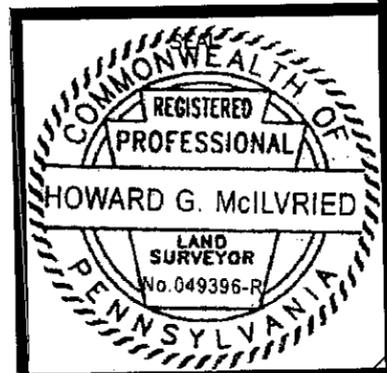
2128 East Carson Street  
16th Ward, City of Pittsburgh  
Allegheny County, PA

Date: 6/13/12  
Job No.: 5275

GRAPHIC SCALE



( IN FEET )  
1 inch = 20 ft.



**MCILVRIED  
DIDIANO &  
MOX, LLC**

Site Planners • Engineers • Surveyors  
8851 Kind Drive  
Pittsburgh, PA 15237  
Ph.: (724) 934-2810 fax: (724) 934-2811  
mdmsurvey@zoominternet.net  
www.mdmlc.com

I, Howard G. McIlvried, a Registered Professional Land Surveyor of the Commonwealth of Pennsylvania, do hereby certify that the plan as shown hereon is based upon an actual field survey of the land described, that all angles, distances and courses are correctly shown, and that this plan correctly represents the lots, lands, streets and improvements as surveyed by me for John McCloskey.

Howard G. McIlvried, P.L.S.  
Reg. No. #049396-R



2128 EAST CARSON  
REAR FACADE (CAREY WAY)



2128 EAST CARSON  
REAR FACADE (CAREY WAY)

<p>RESIDENTIAL RENOVATION 2128 EAST CARSON ST., PITTSBURGH, PA 15203</p>	<p>PHOTOS OF EXISTING REAR FACADE</p>		<p>C/4.1</p>
	<p>N.T.S.</p>	<p>JUNE 25, 2012 ISSUED FOR HRC REVIEW</p>	



2112-2116 EAST CARSON  
REAR FACADE (CAREY WAY)



2118 EAST CARSON  
REAR FACADE (CAREY WAY)



2120 EAST CARSON  
REAR FACADE (CAREY WAY)

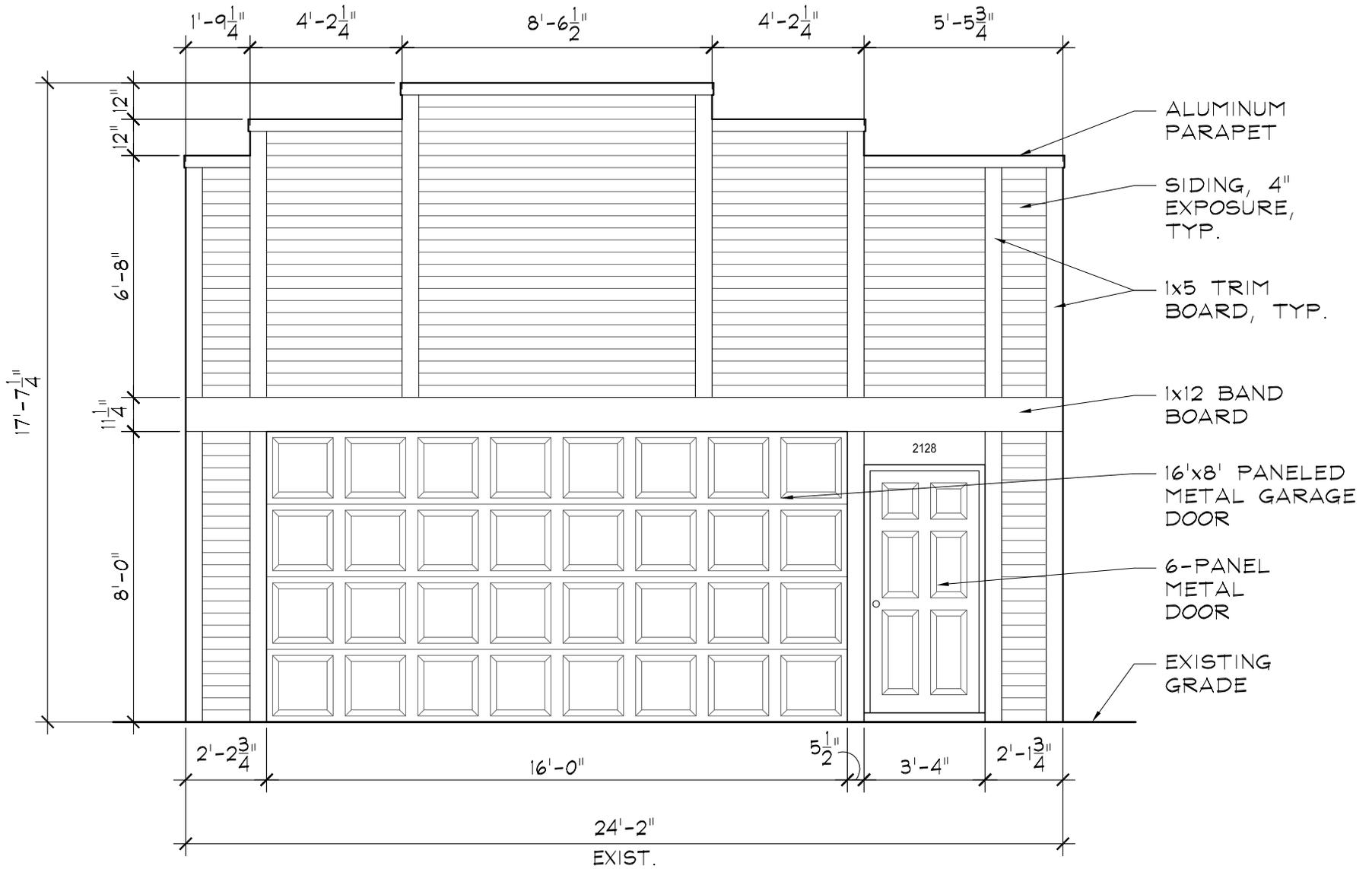


2124 EAST CARSON  
REAR FACADE (CAREY WAY)



CAREY WAY LOOKING WEST

RESIDENTIAL RENOVATION 2128 EAST CARSON ST., PITTSBURGH, PA 15203	PHOTOS OF NEIGHBORING FACADES		D/4.1
	N.T.S. 	JUNE 25, 2012 ISSUED FOR HRC REVIEW	



RESIDENTIAL RENOVATION  
 2128 EAST CARSON ST., PITTSBURGH, PA 15203

PROPOSED REAR ELEVATION

B/4.1

1/4" = 1'-0"

JUNE 25, 2012  
 ISSUED FOR HRC REVIEW



## HISTORIC REVIEW COMMISSION OF PITTSBURGH

### Application for a Certificate of Appropriateness

**DEADLINE:**

Completed applications must be received at least 13 working days prior to the HRC hearing, when a hearing is required

**FEE SCHEDULE:**

See attached. Please make check payable to:  
 Treasurer, City of Pittsburgh.

**ADDRESS OF PROPERTY:**

215 39TH STREET  
PITTSBURGH, PA 15201

**OWNER:**

NAME: PITTSBURGH PUBLIC SCHOOLS  
 ADDRESS: 341 SOUTH BELLEFIELD AVE  
PITTSBURGH, PA 15213  
 PHONE: (412) 488-4318  
 EMAIL: abiestek1@pghboe.net  
ALLEN BIESTEK / VIDYA PATIL

**REQUIRED ATTACHMENTS:**

- Drawings     Photographs     Renderings     Site Plan     Other

**DETAILED DESCRIPTION OF PROPOSED PROJECT:**

RE-INSTALLATION OF EXISTING PLAYGROUND STRUCTURE, RELOCATED FROM  
PITTSBURGH OBAMA 6-12 SCHOOL TO PITTSBURGH ARSENAL PRE-K TO 5 SCHOOL.

**SIGNATURES:**

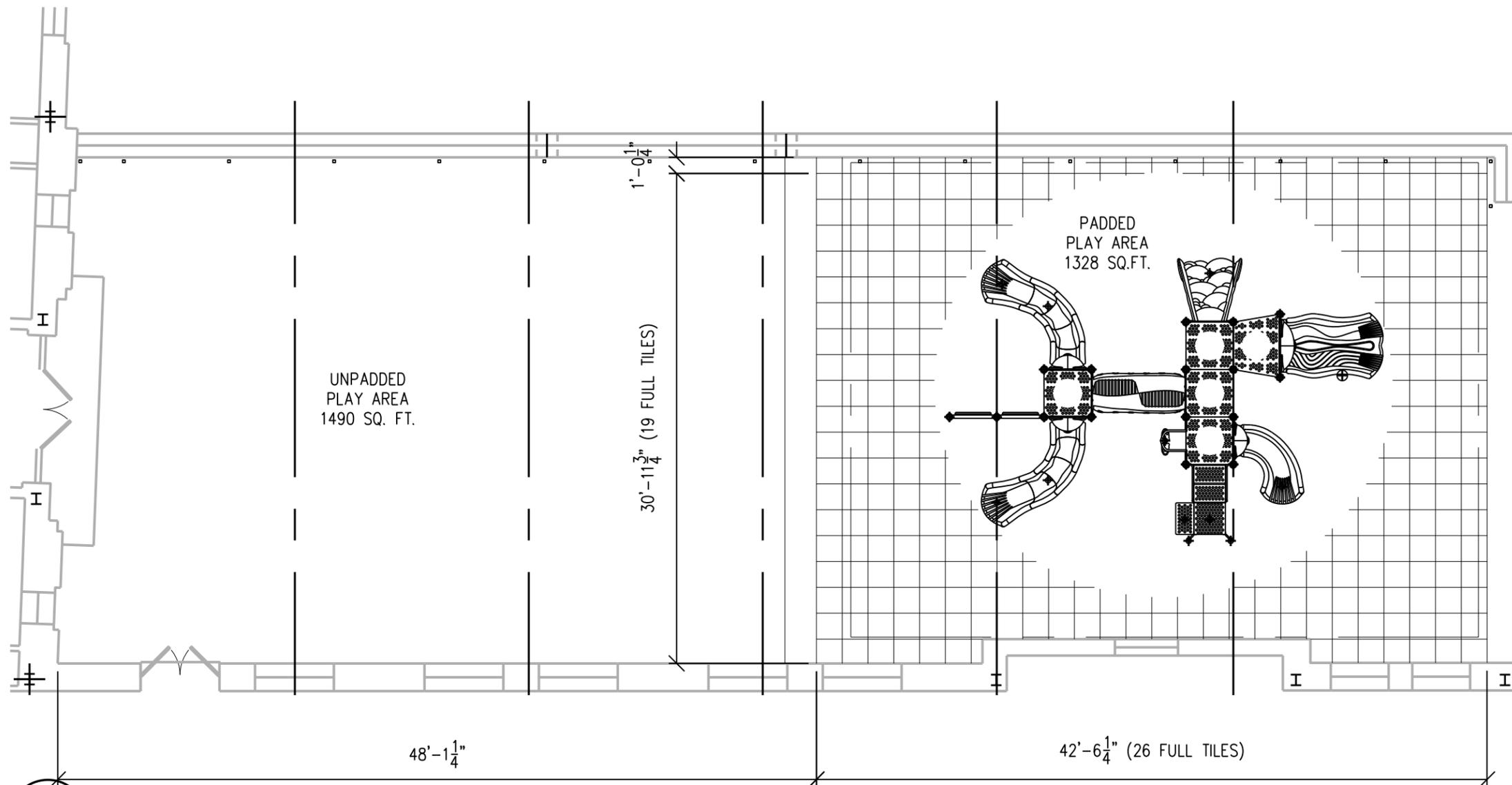
OWNER:  VIDYA PATIL, AIA    DATE: 7/5/12  
 APPLICANT:  Anne Thompson Dummire    DATE: 7/5/12

**STAFF USE ONLY:**

DATE RECEIVED: \_\_\_\_\_  
 LOT AND BLOCK NUMBER: \_\_\_\_\_  
 WARD: \_\_\_\_\_  
 FEE PAID: \_\_\_\_\_  
**DISTRICT:**

INDIVIDUALLY LISTED





1 PARTIAL GROUND FLOOR PLAN  
A-1 SCALE: 1/8"=1'-0"

GENERAL NOTES:

- PLAYGROUND EQUIPMENT TO BE REMOVED FROM CURRENT POSITION, LOCATED AT THE PITTSBURGH OBAMA 6-12 SCHOOL, AND RE-INSTALLED AT THE PITTSBURGH ARSENAL PRE-K TO 5 SCHOOL PLAY AREA (ADJACENT TO 39TH STREET ADDITION).
- EQUIPMENT TO BE REMOVED FROM CURRENT LOCATION WITH MINIMAL DAMAGE TO EXISTING POURED PLAYGROUND SURFACE.
- CLEAN AND REPAIR SURFACES AS NECESSARY TO ACCEPT NEW RUBBERIZED PLAYGROUND TILES.
- INSTALL NEW RUBBERIZED PLAYGROUND TILES PER MANUFACTURER'S SPECIFICATIONS.
- FIELD COORDINATE EXACT INSTALLATION LOCATIONS OF SUPPORT POSTS TO SUIT FIELD CONDITIONS.
- ALL DIMENSIONS ARE APPROXIMATE AND SHOULD BE FIELD VERIFIED BY INSTALLER.
- EXISTING SUPPORT MATERIAL IS 2"± FLAGSTONE PAVING ON A SETTING BED, WATERPROOF MEMBRANE AND 2" ± CORK OVER A REINFORCED CONCRETE JOIST AND SLAB SYSTEM PER EXISTING DRAWINGS. UNDER NO CIRCUMSTANCES SHALL THE WATERPROOF MEMBRANE BE PENETRATED BY ANY ANCHOR FOR ANY OF THE POST SUPPORTS.

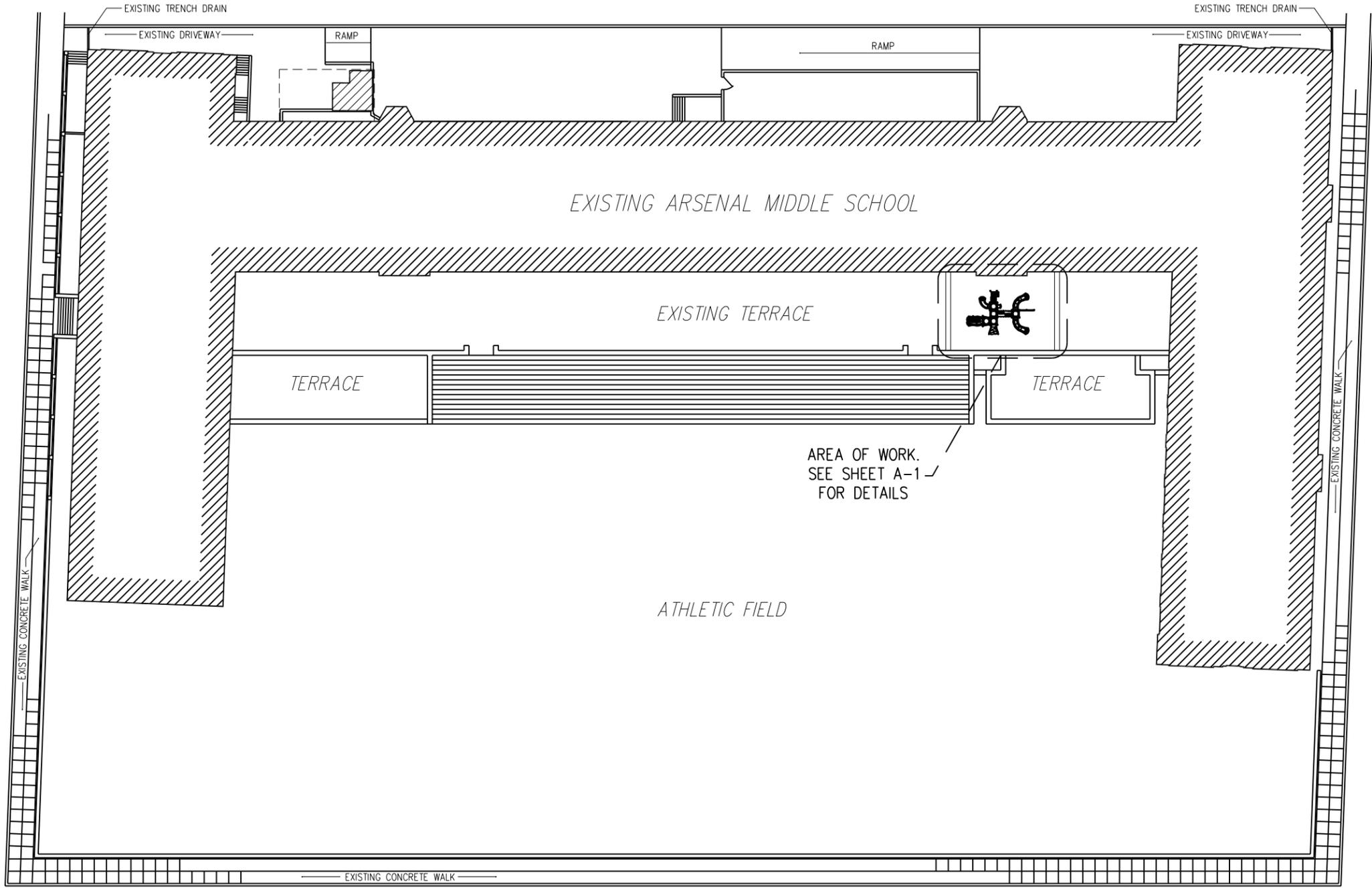
- PRIOR TO BID, VISIT THE SITE AND VERIFY THE SURFACE CONDITIONS FOR THE ANCHORING OF THE SUPPORT POST. WHERE ANY OF THE POST SUPPORT LOCATIONS FALL ON FLAGSTONE PAVING LESS THAN 2' BY 2' ± IN SIZE, THE EXISTING FLAGSTONE SHALL CAREFULLY BE REMOVED AND REPLACED WITH A MINIMUM 2' BY 2' BY 3"± POURED IN PLACE CONCRETE BASE (MIN. 3500 PSI @ 28 DAYS, ENTRAIN 6% ± 1% AIR) AND STRIKE FLUSH WITH TOP OF EXISTING FLAGSTONE. REINFORCE WITH 2 - #3 BARS AT CENTER IN EACH DIRECTION. REMOVED FLAGSTONE SHALL BE RETURNED TO THE DISTRICT FOR STORAGE. INCLUDE ALL COSTS ASSOCIATED WITH THE FLAGSTONE REPLACEMENT IN THE BID.
- PROVIDE ADHESIVE ANCHORS TO ATTACH THE PLAYGROUND SYSTEM TO THE FLAGSTONE OR POURED IN PLACE CONCRETE DESCRIBED ABOVE WITH A HILTI HIT HY-150 ADHESIVE ANCHORING SYSTEM OR APPROVED EQUAL. COORDINATE ANCHOR SIZE AND QUANTITY WITH EXISTING BOLT HOLE LOCATIONS IN PLAYGROUND SET. ANCHORS TO BE STAINLESS STEEL OR GALVANIZED THREADED RODS FOR EXTERIOR USE.

THE PITTSBURGH OBAMA 6-12 SCHOOL PLAYGROUND RELOCATION TO ARSENAL PRE-K TO 5 SCHOOL PLAY AREA (ADJACENT TO 39TH ADDITION)	SCALE: 1/8"=1'-0"
PARTIAL GROUND FLOOR PLAN EXISTING EXTERIOR PATIO	DRAWN BY: KL
	ARCH/ENG: N/A
	DATE: 07/05/12
	JOB NUMBER: 11071.01
THE PITTSBURGH ARSENAL PRE-K TO 5 SCHOOL 215 39TH STREET PITTSBURGH, PA 15201	DRAWING NO. A-1

**Quad3**  
Architecture  
Engineering  
Environmental  
Services  
3445 Butler Street  
Pittsburgh, PA 15201  
Phone 412.781.1344  
Fax 412.781.1389  
www.quad3.com

EXISTING CONCRETE SIDEWALK

40th STREET



39th STREET

BUTLER STREET

1 SITE PLAN  
 A-2 SCALE: 1"=50'-0"

SCALE:	1/8" = 1'-0"
DRAWN BY:	KL
ARCH/ENG:	N/A
DATE:	07/05/12
JOB NUMBER:	11071.01
DRAWING NO.	A-2

THE PITTSBURGH OBAMA 6-12 SCHOOL PLAYGROUND RELOCATION  
 TO ARSENAL PRE-K TO 5 SCHOOL PLAY AREA (ADJACENT TO 39TH ADDITION)

SITE PLAN

THE PITTSBURGH ARSENAL PRE-K TO 5 SCHOOL  
 215 39TH STREET  
 PITTSBURGH, PA 15201

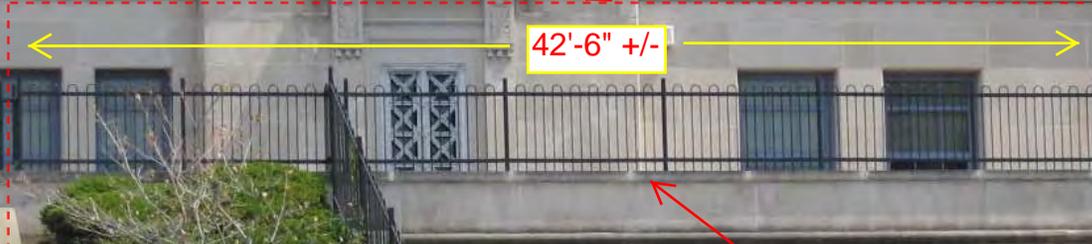
**Quadd3**  
 Architecture  
 Engineering  
 Environmental  
 Services

phone 412.781.1344  
 fax 412.781.1389  
 web www.quadd3.com

3445 Butler Street,  
 Pittsburgh, PA 15201

\* HIGHEST POINT OF PLAY STRUCTURE TO BE 9'-0" +/- ABOVE GRADE

PROPOSED LOCATION OF EXISTING PLAY STRUCTURE RE-INSTALLATION

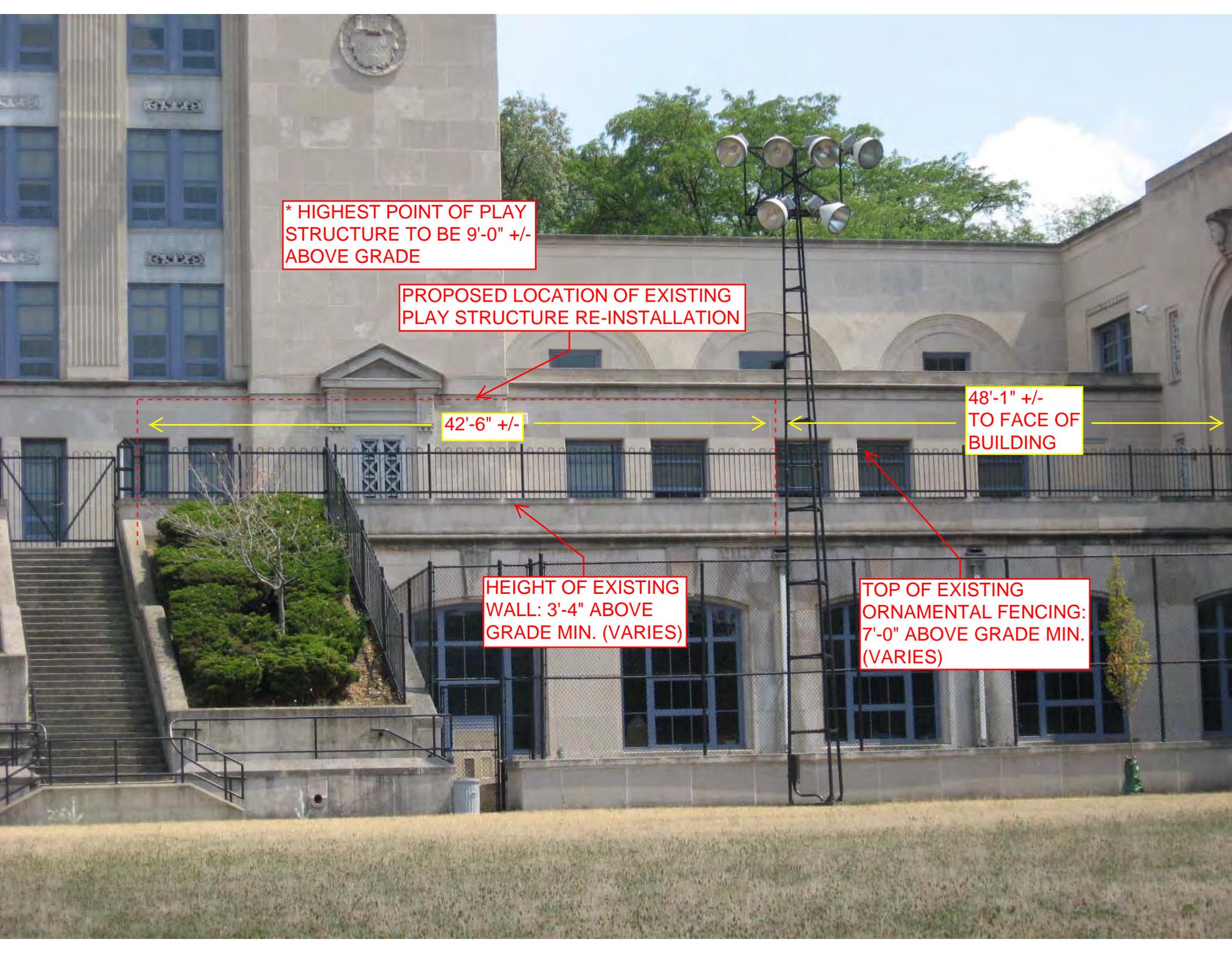


42'-6" +/-

48'-1" +/- TO FACE OF BUILDING

HEIGHT OF EXISTING WALL: 3'-4" ABOVE GRADE MIN. (VARIES)

TOP OF EXISTING ORNAMENTAL FENCING: 7'-0" ABOVE GRADE MIN. (VARIES)





LEFT LANE  
MUST  
TURN LEFT



























Can you spell your name?

h r A E y m g  
s f Q z t N K u  
Y S O G v i  
J I D c f B  
L R a k e  
w q

Find the way home!

A grid-based maze puzzle with a dog icon at the top right and a house icon at the bottom left. A path is drawn through the grid connecting the dog to the house.

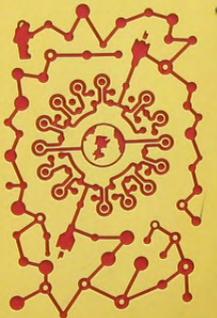




Rosenstein  
Early Childhood  
Center



Find the way home!



How old are you?





How old are you?

5 10  
30









Division of Development Administration and Review  
 City of Pittsburgh, Department of City Planning  
 200 Ross Street, Third Floor  
 Pittsburgh, Pennsylvania 15219

**HISTORIC REVIEW COMMISSION OF PITTSBURGH**  
**Application for a Certificate of Appropriateness**

Staff Use

**DEADLINES**  
 Completed Applications must be submitted 30 days prior to next HRC hearing when a hearing is required.

**FEE SCHEDULE:** See attached. Please take check payable to Treasurer, City of Pittsburgh.

Fee Paid: \$100

Date Received: 7/10/12  
 Hearing Date: 8/1/12  
 L.L. and Block #: 22-F-285 21st Ward

ADDRESS OF PROPERTY: 1301 COLUMBUS Pgh PA 15233  
 HISTORIC DISTRICT: MANCHESTER

<b>OWNER</b>	<b>APPLICANT</b>
Name: <u>Manchester Housing Dev. LLC</u>	Name: <u>same</u>
Address: <u>1319 Allegheny Ave</u>	Address: _____
City, State, Zip: <u>Pgh PA 15233</u>	City, State, Zip: _____
Phone: <u>412 323-1743</u> Fax: <u>412 322-6448</u>	Phone: ( ) - - Fax: ( ) -
E-MAIL: <u>nnoszka@manchestercitizens.org</u>	E-MAIL: _____

REQUIRED ATTACHMENTS:  Drawings  Photographs  Renderings  Site Plan  Other

DETAILED DESCRIPTION OF PROPOSED WORK: see attached

SIGNATURE Nancy W. [Signature], Owner DATE 7-12-12  
 \_\_\_\_\_, Applicant DATE \_\_\_\_\_



**Work Scope**  
**1301 Columbus**  
Pittsburgh, PA 15233

**Addition to Historic Structure in Manchester**

July 11, 2012

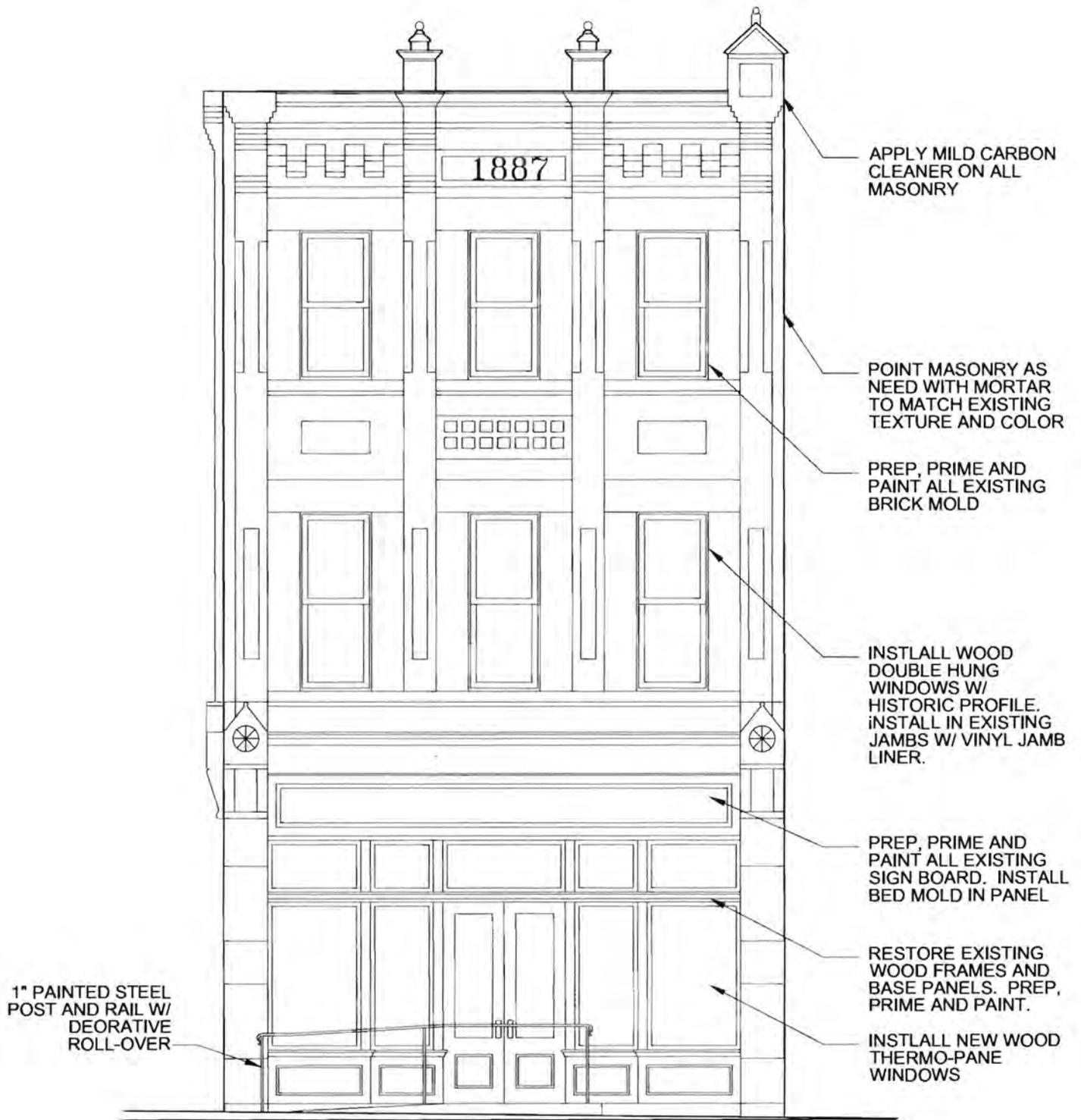
**Description:** The three story mixed-use building has a commercial storefront on the 1<sup>st</sup> floor and one apartment on each of the 2<sup>nd</sup> and 3<sup>rd</sup> floors. The footprint of the existing structure is 945 s.f. and the interior usable area is 800 s.f. on each floor.

**Summary of proposed work:** The Manchester Housing Development, LLC shall rehabilitate each of the interiors of these structures to bring back a commercial space on the ground floor and apartments on the 2<sup>nd</sup> and 3<sup>rd</sup> floors. For code and egress purposes, a set of stairs will be added to the rear of the structure. The stair structure shall be 8'-5" x 22'-3". The stair addition is essential to provide a code compliant egress and also to maintain an optimal area of 800 square feet within the for-market leasable spaces. If the stairs are incorporated within the existing structure it will take away from much needed real estate that makes the project financially viable.

The stair addition shall have Hardie 'dutch-lap' siding with wood double-hung windows and a wood or synthetic wood cornice. The roof profile shall match the existing roof. The windows and door shall be cased with wood or synthetic wood boards.



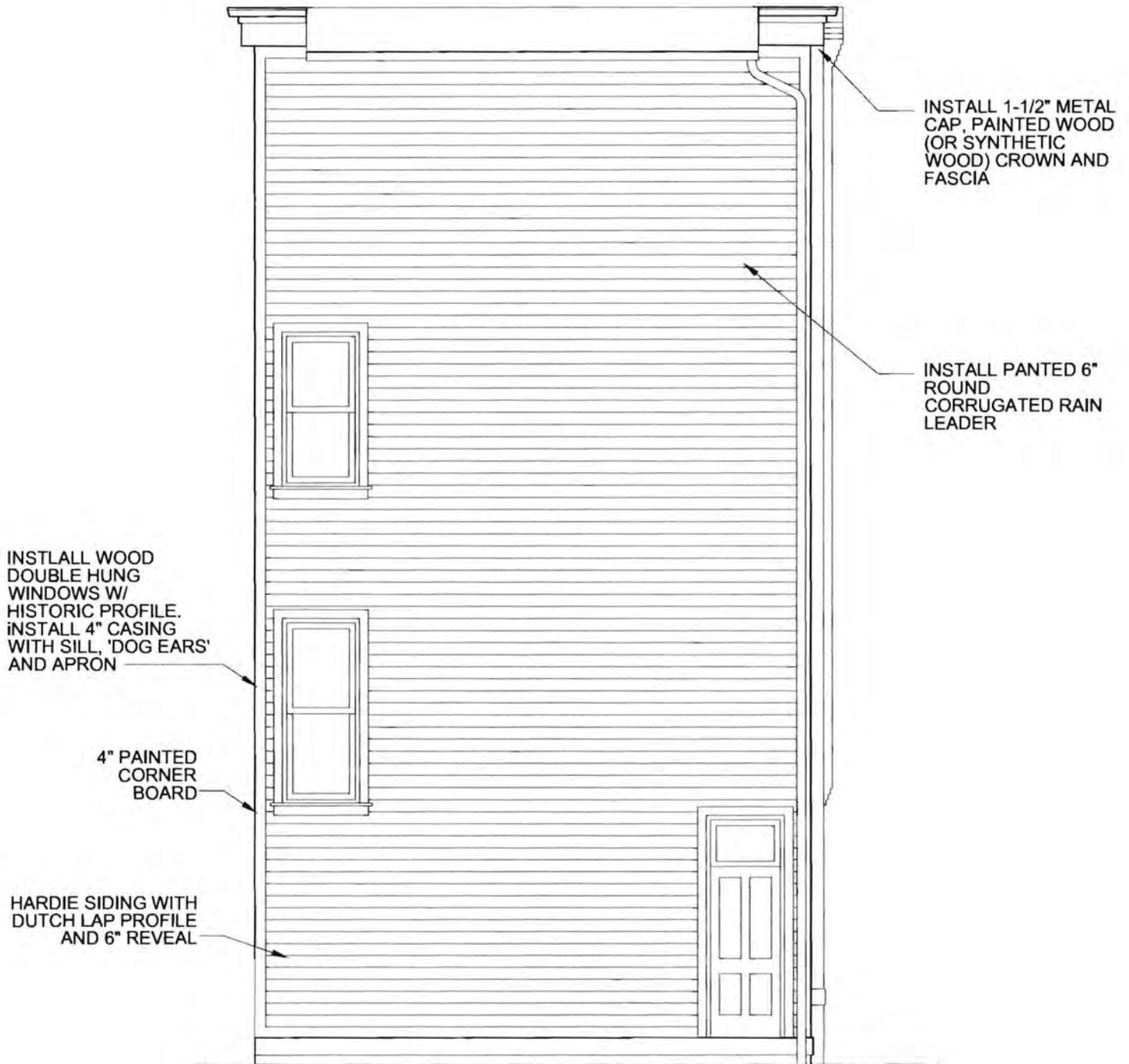
1301 Columbus Avenue  
FRONT ELEVATION



**1** **FRONT ELEVATION**  
 SCALE: 3/16" = 1'-0"  
 1301 COLUMBUS AVENUE  
 JULY 10, 2012



1301 Columbus Avenue  
REAR ELEVATION



**1** **REAR ELEVATION**  
 SCALE: 3/16" = 1'-0"  
 1301 COLUMBUS AVENUE  
 JULY 10, 2012



1301 Columbus Avenue  
SIDE ELEVATION



**1** **SIDE ELEVATION**  
 SCALE: 3/16" = 1'-0"  
 1301 COLUMBUS AVENUE  
 JULY 10, 2012



Division of Development Administration and Review  
 City of Pittsburgh, Department of City Planning  
 200 Ross Street, Third Floor  
 Pittsburgh, Pennsylvania 15219

**HISTORIC REVIEW COMMISSION OF PITTSBURGH**  
**Application for a Certificate of Appropriateness**

- Staff Use -

**DEADLINES:**  
 Completed Applications must be submitted 5 days prior to next HRC meeting when a hearing is required.

**FEE SCHEDULE:** See attached. Please make check payable to Treasurer, City of Pittsburgh.  
 Fee Paid  \$ 100

Date Received: 7/12/12  
 Hearing Date: 8/1/12  
 Lot and Block #: 22-4-17 21st ward

ADDRESS OF PROPERTY: 1401 COLUMBUS Pgh PA 15233  
 HISTORIC DISTRICT: MANCHESTER

**OWNER**

Name: Manchester Housing Dev. LLC  
 Address: 1319 Allegheny Ave  
 City, State, Zip: Pgh PA 15233  
 Phone: 412 323-1743 Fax: 412 322-6448  
 E-MAIL: nnoszka@manchestercitizens.org

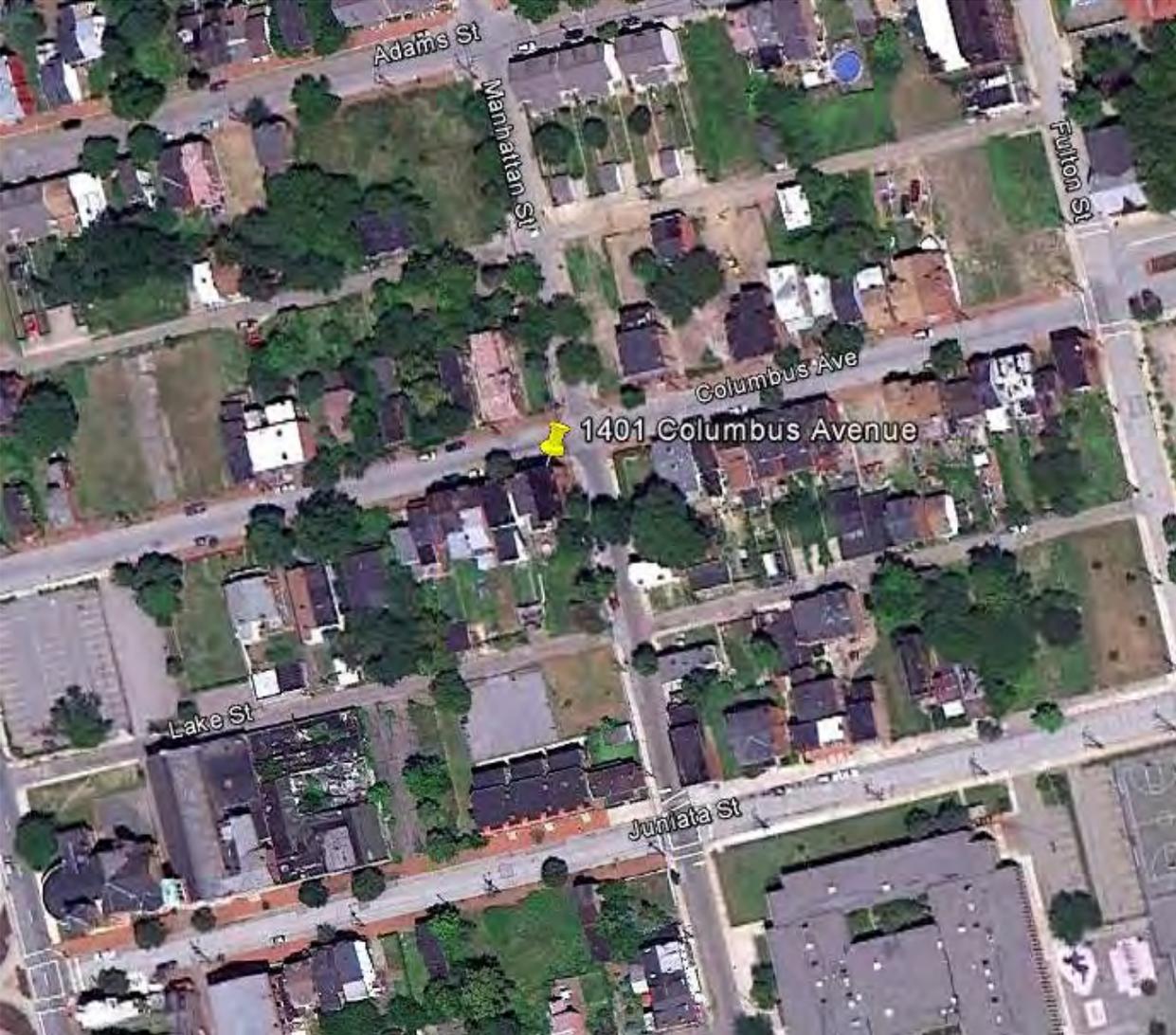
**APPLICANT**

Name: same  
 Address: \_\_\_\_\_  
 City, State, Zip: \_\_\_\_\_  
 Phone: ( ) - - Fax: ( ) - -  
 E-MAIL: \_\_\_\_\_

REQUIRED ATTACHMENTS:  Drawings  Photographs  Renderings  Site Plan  Other

DETAILED DESCRIPTION OF PROPOSED WORK: see attached -

SIGNATURE Nancy Allyn Owner DATE 7-12-12  
 \_\_\_\_\_ Applicant DATE \_\_\_\_\_



Work Scope  
**1401 Columbus**  
Pittsburgh, PA 15233

Addition to Historic Structure in Manchester

July 11, 2012

Description: The three story mixed-use building has a commercial storefront on the 1<sup>st</sup> floor and one apartment on each of the 2<sup>nd</sup> and 3<sup>rd</sup> floors. The footprint of the existing structure is 915 s.f. and the interior usable area is 745 s.f. on each floor.

Summary of proposed work: The Manchester Housing Development, LLC shall rehabilitate each of the interiors of these structures to bring back a commercial space on the ground floor and apartments on the 2<sup>nd</sup> and 3<sup>rd</sup> floors. For code and egress purposes, a set of stairs will be added to the rear of the structure. The stair structure shall be 8'-5" x 22'-3". The addition is essential to provide a code compliant egress and also to maintain an optimal area of 745 square feet within the for-market leasable spaces. If the stairs are incorporated within the existing structure it will take away from much needed real estate that makes the project financially viable.

The stair addition shall have Hardie 'dutch-lap' siding with wood double-hung windows and a wood or synthetic wood cornice. The roof profile shall match the existing roof. The windows and door shall be cased with wood or synthetic wood boards.



1401 Columbus Avenue  
FRONT ELEVATION



1" PAINTED STEEL  
POST AND RAIL W/  
DEORATIVE  
ROLL-OVER

APPLY MILD CARBON  
CLEANER ON ALL  
MASONRY

POINT MASONRY AS  
NEED WITH MORTAR  
TO MATCH EXISTING  
TEXTURE AND COLOR

PREP, PRIME AND  
PAINT ALL EXISTING  
BRICK MOLD

INSTLALL WOOD  
DOUBLE HUNG  
WINDOWS W/  
HISTORIC PROFILE.  
INSTALL IN EXISTING  
JAMBS W/ VINYL JAME  
LINER.

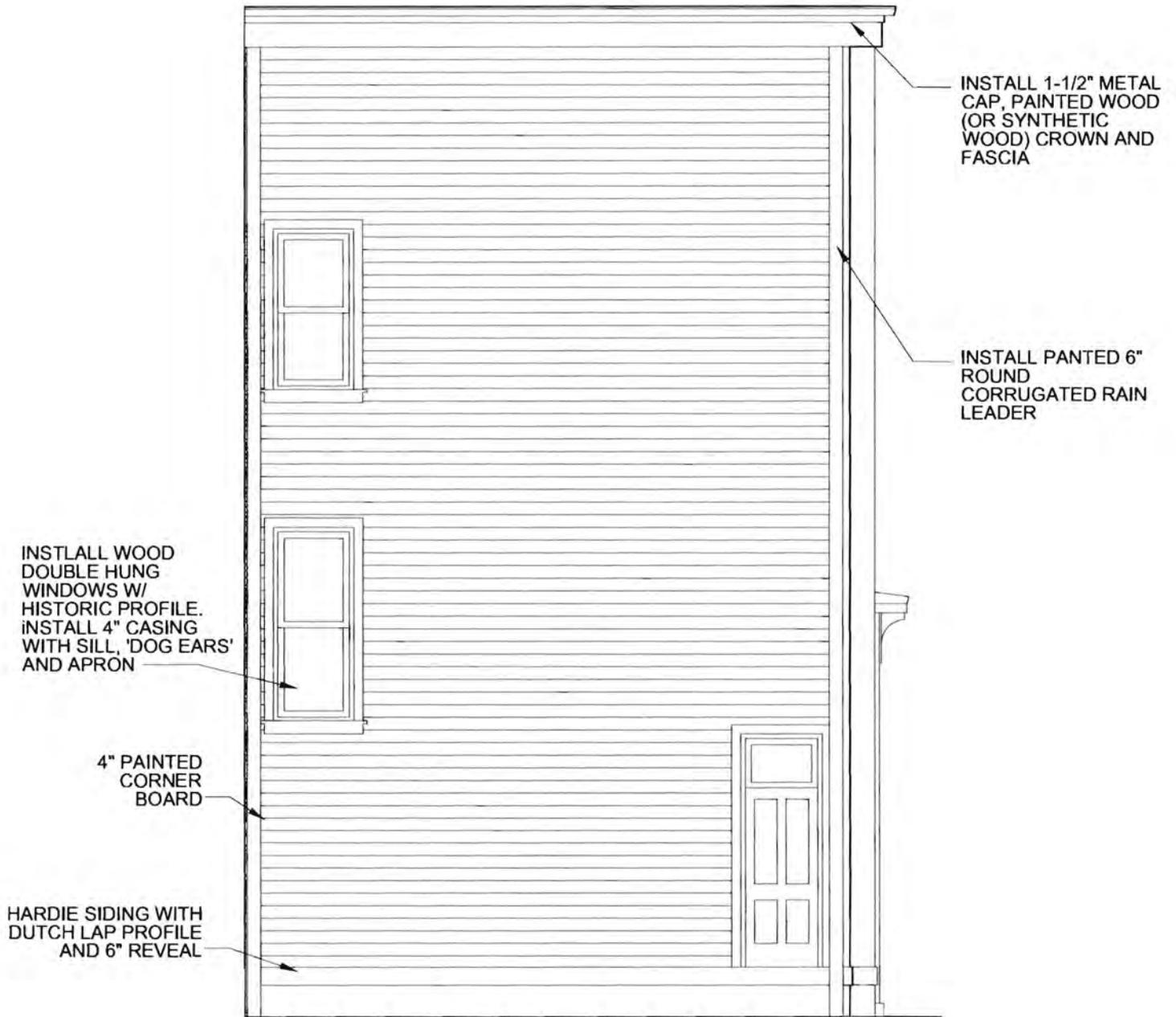
RESTORE EXISTING  
WOOD FRAMES AND  
BASE PANELS. PREP,  
PRIME AND PAINT.

INSTLALL NEW WOOD  
THERMO-PANE  
WINDOWS

**1** **FRONT ELEVATION**  
SCALE: 3/16" = 1'-0"  
1301 COLUMBUS AVENUE  
JULY 10, 2012



1401 Columbus Avenue  
REAR ELEVATION



**1** REAR ELEVATION  
 SCALE: 3/16" = 1'-0"  
 1301 COLUMBUS AVENUE  
 JULY 10, 2012



1401 Columbus Avenue  
SIDE ELEVATION



**1** **SIDE ELEVATION**  
 SCALE: 3/16" = 1'-0"  
 1301 COLUMBUS AVENUE  
 JULY 10, 2012



**HISTORIC REVIEW COMMISSION OF PITTSBURGH**  
**Application for a Certificate of Appropriateness**

- Staff Use -

**DEADLINES:**  
 Completed Applications must be submitted 15 days prior to next HRC hearing, when a hearing is required.

**FEE SCHEDULE:** See attached  
 Please make check payable to Treasurer, City of Pittsburgh

Fee Paid:  \$ 100

Date Received: 7  
 Hearing Date: \_\_\_\_\_  
 Lot and Block #: \_\_\_\_\_

ADDRESS OF PROPERTY: 1404-1414 Juniper St  
Pgh PA 15233

HISTORIC DISTRICT: MANCHESTER

**OWNER**

Name: Manchester Housing Dev, LLC  
 Address: 1319 Allegheny Ave  
 City, State, Zip: Pgh  
 Phone: (412) 323-1743 Fax: (412) 322-  
 E-MAIL: nnoszka@manchestercitizens.org

**APPLICANT**

Name: same  
 Address: \_\_\_\_\_  
 City, State, Zip: \_\_\_\_\_  
 Phone: ( ) - - Fax: ( ) -  
 E-MAIL: same

REQUIRED ATTACHMENTS:  Drawings  Photographs  Renderings  Site Plan  Other

DETAILED DESCRIPTION OF PROPOSED WORK: 2<sup>nd</sup> floor Exterior Door returned back to a window (bedroom)

SIGNATURE Nancy Walsh, Director of Real Estate, Owner  
 DATE July 7, 2012

\_\_\_\_\_, Applicant  
 DATE \_\_\_\_\_

Beldale St

Adams St

Warner St

1404-1414 Juniata Street

Lake St

Juniata St

Rush St

Decatur St

Hanes Way

Manche

65

19

West Ave

65th Infant

LR



View #1: front facade



View # 2: from corner of Lake and Manhattan



View #3: rear from vacant lot at corner of Lake and Manhattan



View # 4: rear elevation from Lake Street



View #5: rear of row looking southeast from corner of vacant lot on west side of property



View # 6: looking north from rear of building



View #7: looking northwest from Manhattan Street



View # 8: looking northeast from the corner of Lake and Manhattan





# THE GARDENS

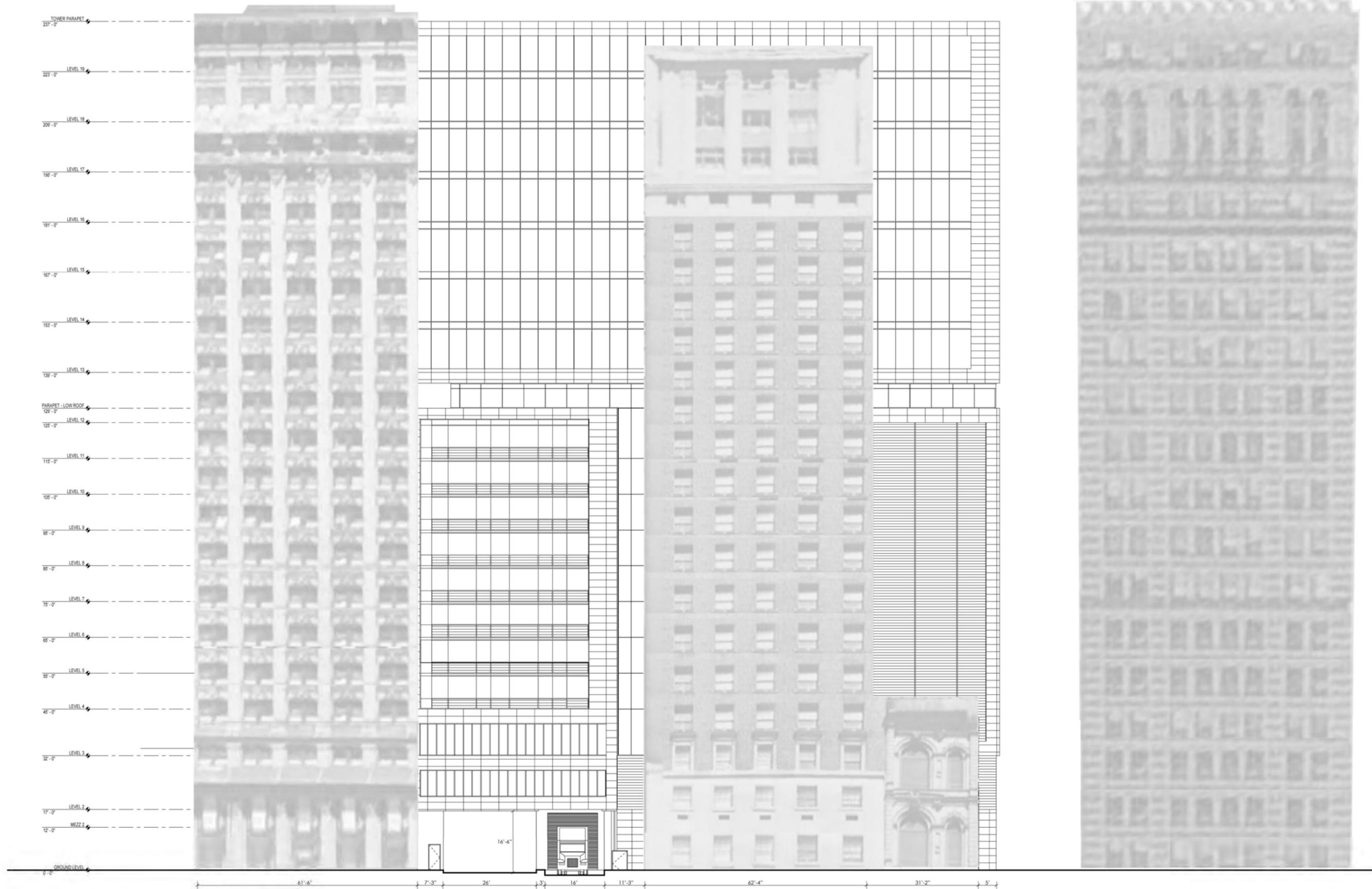
AT MARKET SQUARE

HISTORICAL REVIEW COMMISSION OF PITTSBURGH

PREPARED BY **ARQUITECTONICA**

AUGUST 1, 2012











Division of Development Administration and Review  
 City of Pittsburgh, Department of City Planning  
 200 Ross Street, Third Floor  
 Pittsburgh, Pennsylvania 15219

**HISTORIC REVIEW COMMISSION OF PITTSBURGH**  
**Application for a Certificate of Appropriateness**

**DEADLINE:**

Completed applications must be received at least 13 working days prior to the HRC hearing, when a hearing is required

**STAFF USE ONLY:**

DATE RECEIVED: \_\_\_\_\_

LOT AND BLOCK NUMBER: \_\_\_\_\_

WARD: \_\_\_\_\_

FEE PAID: \_\_\_\_\_

**FEE SCHEDULE:**

See attached. Please make check payable to:  
 Treasurer, City of Pittsburgh.

**ADDRESS OF PROPERTY:**

500 West North Ave  
 Apt #3 Pittsburgh PA  
 15212

**DISTRICT:**

Mexican War Streets

**OWNER:**

NAME: Howard Muranko

**APPLICANT:**

NAME: Howard Muranko N.W.

ADDRESS: ~~1575 Peachtree~~ N.W.  
 Atlanta GA 30309

ADDRESS: 1820 Peachtree Road #815  
 Atlanta GA 30309

PHONE: 786-375-7908

PHONE: 1-786-375 7908

EMAIL: \_\_\_\_\_

EMAIL: \_\_\_\_\_

**REQUIRED ATTACHMENTS:**

- Drawings  Photographs  Renderings  Site Plan  Other

**DETAILED DESCRIPTION OF PROPOSED PROJECT:**

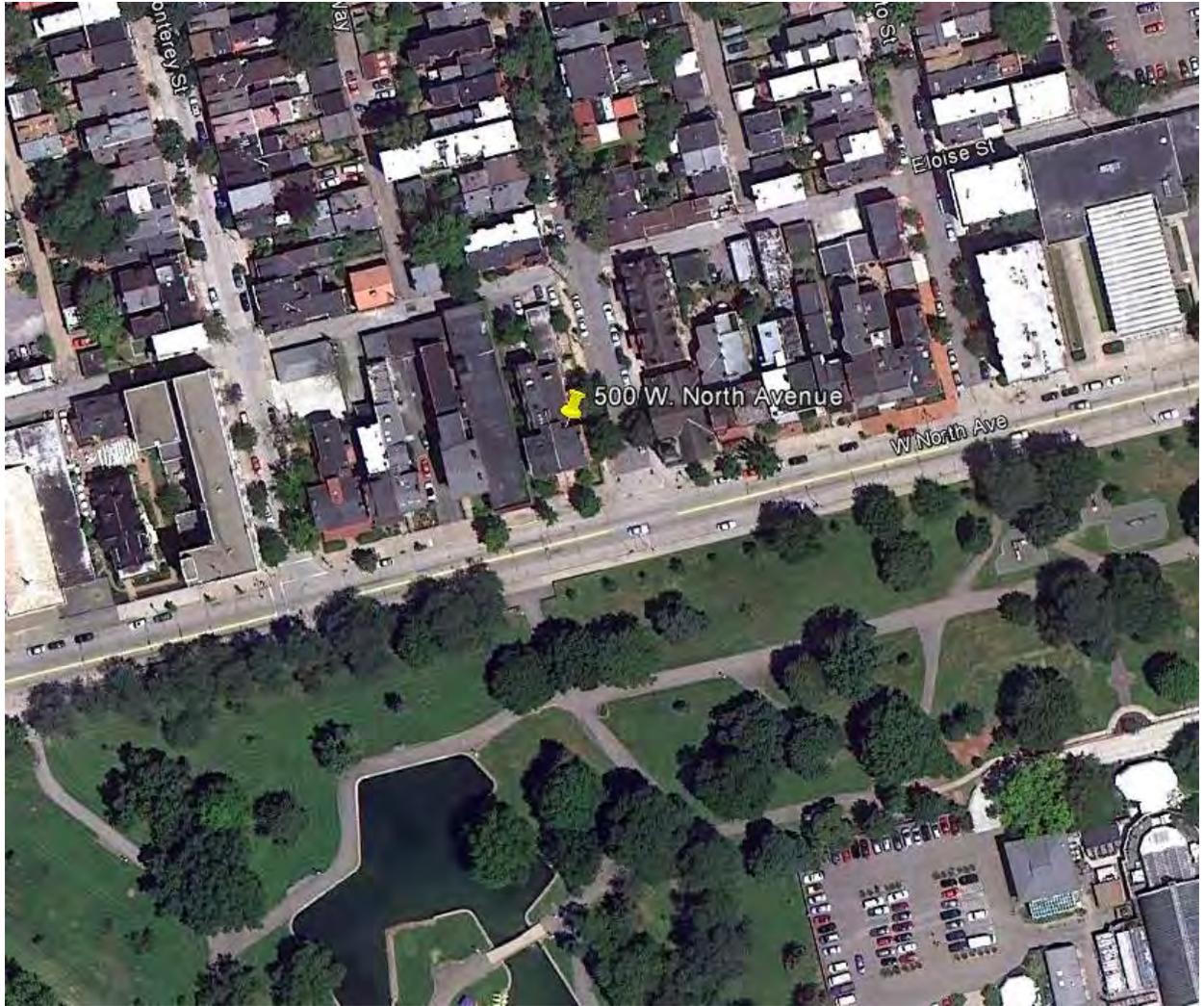
Replacing Broken Aluminum Windows with wood  
 and Replacing double Doors and transom  
 with 8' tall double doors

**SIGNATURES:**

OWNER: Howard Muranko DATE: 7-12-12

APPLICANT: Howard Muranko DATE: 7-12-12

#815



FRONT OF House Facing W. North Ave



Repl.com  
Area



View of addition From Resacca Place



View of addition Facing Resacca Place



Rear view of addition  
and parking area

# WINDOWS

Project includes replacing

1) 4 large Aluminum windows with Trimline wood windows that match the rest of the main house window opening is 52", 3" wider than allowed for a single double hung window so each existing opening will have 2 side by side wood replacement windows installed so as not to change opening size or profile.

2) replace existing small aluminium bath window with Trimline wood window to match

attached 3 photos of existing windows to be replaced

4 photos of replacement Trimlines installed on the rest of the house



# TrimLine

WINDOWS INCORPORATED



Energy-tight Windows for comfortable living and fuel efficiency

HOME PAGE

CORPORATE PROFILE

WHAT'S NEW

PRODUCTS

HISTORIC WOOD WINDOWS

ULTRA - FIT SASH KIT

COMFORT PLUS GLASS

TEST RESULTS

BECOME A DEALER

CONTACT US

▣ [Legends Clad Double Hung Wood](#) ▣ [Liberty - All Wood](#) ▣ [Casements, Awnings](#)  
▣ [Bows and Bays](#) ▣ [Circle Tops, Ellipticals](#) ▣ [Trapezoids, Triangles](#)

## Liberty All Wood Windows

Please click [here](#) for Brick Mold options.  
Please click [here](#) for window options.

*This is  
The only spec.  
I could get*



Liberty Series all wood "Lexington" model with 5/4 x 3 1/2" flat exterior casing shown with authentic 1 1/8" true divided lites.



Liberty Series "Lexington" model with 1 1/8" true divided lite muntin detail.

*No  
Grills!*



Authentic true divided lite (TDL) with "putty glaze" look 1 1/8" muntin detail shown in western pine with insulating glass and warm edge super spacer glazing (exterior view).



Interior view authentic 1 1/8" True Divided Lite



Liberty Series all wood double hung interior view in western pine with 7/8" simulated divided lite muntin system.



Liberty series all wood double hung shown with 7/8" simulated divided lite muntin system.



The Block and Tackle balances used in all Trimline double hung windows never need adjusting and have been AAMA tested for over 28,000 cycles without failure to ensure an equivalent of 104 years worth of smooth and effortless operation.

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existing window

Rough opening 52" wide

3 of these  
on  
side  
of  
house



to  
be  
replaced  
with  
2  
wood  
side  
by  
side  
for  
each  
opening

52" wide window opening



to be replaced w/ 2 wood + trim side + side

rear of Building Facing Eloise w/ existing window

existing Bath window  
on side of house



To be replaced with one  
wood trimline window



existing Trimline replacement window  
on Resacca side of house



Existing Trim Line replacement  
window on front of house



existing trimline detail



existing Trimline detail

# DOORS

Replace existing double doors that swing out and 1960's transom with

Parkview (same company as trimline windows) in swinging doors full 8' tall with  $\frac{3}{4}$  glass and one pannel on the bottom to resemble the front doors to the house (custom made)

attached

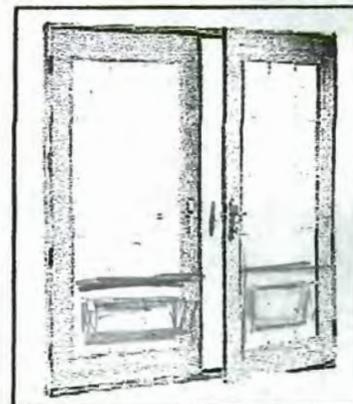
1 photo of existing doors

1 photo of front doors

Merrill Millwork

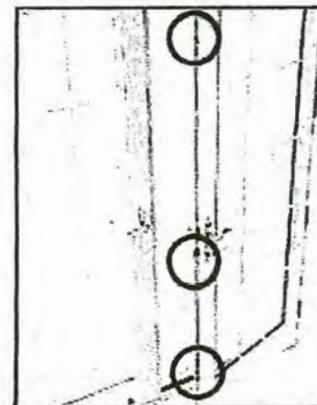
[About Our Company](#) [Sliding Patio Doors](#) [Swinging Patio Doors](#) [More Info](#)**PARK-VUE**  
PATIO DOORS**Swinging Patio Doors****Swinging Patio Doors****Standard Features:**

- **Reversible:** Only the Park-Vue™ Swing Door System can be set up for right or left handing at the job site because all components are pre-machined for fast and accurate bolt-together assembly.
- **Wood sash and frames are fashioned of high-grade western pine,** treated with a water-repellant preservative. **No-warp construction** is engineered into each door stile and the locking stile consists of a laminated core to ensure stability.
- An **extruded reversible aluminum screen** is included with every two- and three-panel Park-Vue™ InSwing Patio Door. A swinging screen is available for single-sash and True French inswing units.
- Active panels bored for standard latch and deadbolt hardware.

Panel  
←**Options:**

Swinging Patio Doors are available in a variety of standard sizes. For more size details see [InSwing specification chart](#) or [Clad OutSwing specification chart](#).

- **Clad OutSwing version available with residential or AFA sill**
- **Oak interior option available on clad InSwing**
- **True French style (both sash swing).** A double swing screen is also available.
- **Choose from 7/8" tempered insulated glass or high-performance argon filled Low-E glass.**
- **Maintenance-free external cladding option is 100% extruded aluminum with a thickness of .055" to .070" – compare that to commonly used rollform aluminum with a thickness of .019" to .024".** Park-Vue™ clad color choices are compatible with those of popular window and exterior trim manufacturers.
- **Clear jambs**
- **Interior and clad exterior extension jambs.**
- **Two-panel units can be combined with stationary sidelite units to make three-panel 7/6, 9/6, or 12/0 units.**
- **Grilles:** wood grilles, internal (between-the-glass) grilles, and SDL (simulated divided lite) grilles are all available.
- **Hardware options include standard and multipoint hardware in a choice of finishes.** (Note: multipoint hardware is standard on 8'0" height swing doors).
- **Blinds in the glass**



Multipoint Hardware Option

[Warranty Information](#)[Assembly Instructions](#)[Handing Guide](#)[Energy Star Certification](#)

This Bought through Train Line Windows

Have No Info on window  
But maybe they will Acut Picture  
of existing window



[About Our Company](#) [Sliding Patio Doors](#) [Swinging Patio Doors](#) [More Info](#)

## Swinging Patio Doors



## Swinging Patio Doors

### Standard Features:

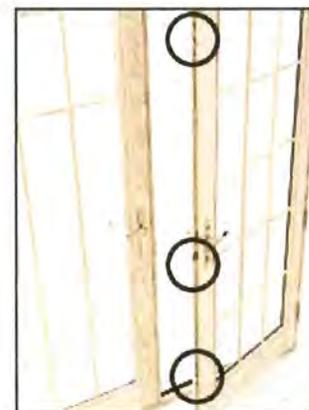
- **Reversible:** Only the Park-Vue™ Swing Door System can be set up for right or left handing at the job site because all components are pre-machined for fast and accurate bolt-together assembly.
- Wood sash and frames are fashioned of **high-grade western pine**, treated with a water-repellant preservative. **No-warp construction** is engineered into each door stile and the locking stile consists of a laminated core to ensure stability.
- An **extruded reversible aluminum screen** is included with every two- and three-panel Park-Vue™ InSwing Patio Door. [A swinging screen is available for single-sash and True French inswing units.](#)
- Active panels bored for standard latch and deadbolt hardware.
- InSwing doors feature patented high performance [fiberglass sill systems](#)



### Options:

Swinging Patio Doors are available in a variety of standard sizes. For more size details see [InSwing specification chart](#) or [Clad OutSwing specification chart](#).

- **Clad OutSwing version available** with residential or ADA sill
- **Oak interior option available on Clad InSwing**
- **True French style** (both sash swing). A double swing screen is also available.
- Choose from 7/8" tempered insulated glass or high-performance [argon filled Low-E glass](#).
- Maintenance-free **external cladding** option is 100% extruded aluminum with a thickness of .055" to .070" – compare that to commonly used rollform aluminum with a thickness of .019" to .024". Park-Vue™ [clad color choices](#) are compatible with those of popular window and exterior trim manufacturers.
- Clear jambs
- Interior and clad exterior **extension jambs**.
- Two-panel units can be combined with stationary sidelite units to make three-panel 7/6, 9/0, or 12/0 units.
- **Grilles:** wood grilles, internal (between-the-glass) grilles, and SDL (simulated divided lite) grilles are all available.
- **Hardware options** include standard and multipoint hardware in a choice of [finishes](#). (Note: multipoint hardware is standard on 8'0" height swing doors).
- [Blinds in the glass](#)
- [Narrow Sidelights](#)
- Transoms and circle tops.
- **Custom sizes available**
- [Customized patio sash for existing frame systems](#)



Multipoint Hardware Option

[Warranty Information](#)

[Assembly Instructions](#)

[Handing Guide](#)

[Energy Star Certification](#)

**Merrill Millwork**

[About Our Company](#) | [Sliding Patio Doors](#) | [Swinging Patio Doors](#) | [More Info](#)

**PARK-VUE**  
PATIO DOORS

## About Our Company

### Swinging Patio Door Hardware Options



[Click here for hardware finishes](#)

[About Our Company](#) | [Sliding Patio Doors](#) | [Swinging Patio Doors](#) | [Clad Frame System](#) | [Radius Top](#) | [More Info](#) | [Home](#)

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Phone: (715) 536-8112  
Fax: (715) 536-4329  
E-mail: [parkvue@park-vue.com](mailto:parkvue@park-vue.com)

Merrill Millwork Park-View specializes in wood patio doors, sliding patio doors, swinging patio doors, hinged patio doors, clad patio doors, french patio doors, replacement patio doors, custom patio doors, custom size patio doors, custom wood patio doors, custom clad patio doors, gliding patio doors, outswing patio doors, outswing wood patio doors, outswing clad patio doors, frame systems, clad frame systems, reversible patio doors.

Merrill Millwork Park-View specializes in wood patio door, sliding patio door, swinging patio door, hinged patio door, clad patio door, french patio door, replacement patio door, custom patio door, custom size patio door, custom wood patio door, custom clad patio door, gliding patio door, outswing patio door, outswing wood patio door, outswing clad patio door, frame system, clad frame system, reversible patio door.



[About Our Company](#) | [Sliding Patio Doors](#) | [Swinging Patio Doors](#) | [More Info](#)

## Swinging Patio Doors



### Full View Clad Swing Patio Sash

#### Standard Features

- 4 1/2" x 1 3/4" pine stiles and rails
- LVL lock stiles
- LowE glass  
Interior glazed
- Dowelled construction
- Extruded aluminum clad exterior

#### Options

- Hinge Routing
- Single/Double hardware bores
- Multipoint hardware prep
- Matching sidelites
- Grilles (wood/inner/SDL)

#### Standard Door Sash Sizes

- 2/6 x 6/8 = 29 3/4 x 79 1/4
- 2/8 x 6/8 = 31 3/4 x 79 1/4
- 3/0 x 6/8 = 35 3/4 x 79 1/4
- 2/6 x 8/0 = 29 3/4 x 95 1/4
- 2/8 x 8/0 = 31 3/4 x 95 1/4
- 3/0 x 8/0 = 35 3/4 x 95 1/4

#### Custom Sizes also available!

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 Phone: (715) 536-8112  
 Fax: (715) 536-4329  
 E-mail: [parkvue@park-vue.com](mailto:parkvue@park-vue.com)

Merrill Millwork Park-Vue specializes in wood patio doors, sliding patio doors, swinging patio doors, hinged patio doors, clad patio doors, french patio doors, replacement patio doors, custom patio doors, custom size patio doors, custom wood patio doors, custom clad patio doors, gliding patio doors, outswing patio doors, outswing wood patio doors, outswing clad patio doors, frame systems, clad frame systems, reversible patio doors.

Merrill Millwork Park-Vue specializes in wood patio door, sliding patio door, swinging patio door, hinged patio door, clad patio door, french patio door, replacement patio door, custom patio door, custom size patio door, custom wood patio door, custom clad patio door, gliding patio door, outswing patio door, outswing wood patio door, outswing clad patio door, frame system, clad frame system, reversible patio door.

Merrill Millwork Park-Vue specializes in wood patio doors, sliding patio doors, swinging patio doors, hinged patio doors, clad patio doors, french patio doors, replacement patio doors, custom patio doors, custom size patio doors, custom wood patio doors, custom clad patio doors, gliding patio doors, outswing patio doors, outswing wood patio doors, outswing clad patio doors, frame systems, clad frame systems, reversible patio doors.

Merrill Millwork Park-Vue specializes in wood patio door, sliding patio door, swinging patio door, hinged patio door, clad patio door, french patio door, replacement patio door, custom patio door, custom size patio door, custom wood patio door, custom clad patio door, gliding patio door, outswing patio door, outswing wood patio door, outswing clad patio door, frame system, clad frame system, reversible patio door.

Merrill Millwork Park-View specializes in wood patio door, sliding patio door, swinging patio door, hinged patio door, clad patio door, french patio door, replacement patio door, custom patio door, custom size patio door, custom wood patio door, custom clad patio door, gliding patio door, outswing patio door, outswing wood patio door, outswing clad patio door, frame system, clad frame system, reversible patio door.

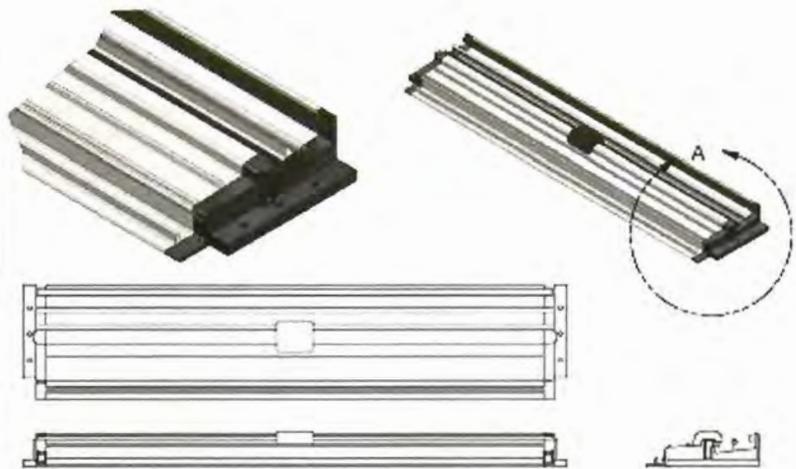
## About Our Company

### Fiberglass Sill

All Park-Vue™ Sliding and InSwing Patio Doors include a durable pultruded fiberglass sill. These sills feature our patented end plugs with an innovative weep system.

Advantages of a fiberglass sill include:

- Will not rot or corrode
- High mechanical strength
- Very low thermal conductivity
- UV and weather resistant
- Dent and crack resistant at high and low temperatures
- Very low coefficient of expansion
- Durable stainless steel roller track cap



Sill Colors

[About Our Company](#) | [Sliding Patio Doors](#) | [Swinging Patio Doors](#) | [Clad Frame System](#) | [Radius Top](#) | [More Info](#) | [Home](#)

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 Phone: (715) 536-8112  
 Fax: (715) 536-4329  
 E-mail: [parkvue@park-vue.com](mailto:parkvue@park-vue.com)

PG & CPG3 x 6/11	37 x 83	35 7/8 x 82 3/16	37 13/16 x 81 1/2	26 3/16 x 65 7/8	34 1/8 x 79 3/4	n/a
PG & CPG3/3 x 6/11	40 x 83	38 7/8 x 82 3/16	40 13/16 x 81 1/2	29 3/16 x 65 7/8	37 1/8 x 79 3/4	n/a
<a href="#">Click here for Narrow Sidelite Specs</a>						
Unit Name	Rough Opening	Frame OSM	Brickmould OSM (PG only)	7/8" Glass Size	Sash Size	Screen Size
<b>8/0 Height</b>						
<b>Two-Panel Units</b>						
PG & CPG4 x 8	47 1/2 x 96	46 7/8 x 95 3/16	48 7/8 x 96 1/2	14 3/16 x 80 7/8	22 1/8 x 92 3/4	22 3/4 x 93 5/8
PG & CPG5 x 8	59 1/2 x 96	58 7/8 x 95 3/16	60 7/8 x 96 1/2	20 3/16 x 80 7/8	28 1/8 x 92 3/4	28 3/4 x 93 5/8
PG & CPG5/4 x 8	63 1/2 x 96	62 7/8 x 95 3/16	64 7/8 x 96 1/2	22 3/16 x 80 7/8	30 1/8 x 92 3/4	30 3/4 x 93 5/8
PG & CPG6 x 8	71 1/2 x 96	70 7/8 x 95 3/16	72 7/8 x 96 1/2	26 3/16 x 80 7/8	34 1/8 x 92 3/4	34 3/4 x 93 5/8
<b>Three-Panel Units</b>						
PG & CPG7/6 x 8	88 1/2 x 96	87 7/8 x 95 3/16	89 7/8 x 96 1/2	20 3/16 x 80 7/8	28 1/8 x 92 3/4	28 3/4 x 93 5/8
PG & CPG8 x 8	94 1/2 x 96	93 7/8 x 95 3/16	95 7/8 x 96 1/2	22 3/16 x 80 7/8	30 1/8 x 92 3/4	30 3/4 x 93 5/8
PG & CPG9 x 8	106 1/2 x 96	105 7/8 x 95 3/16	107 7/8 x 96 1/2	26 3/16 x 80 7/8	34 1/8 x 92 3/4	34 3/4 x 93 5/8
<b>Single Panel Operating or Sidelite</b>						
PG & CPG2 x 8	25 x 96	23 7/8 x 95 3/16	25 13/16 x 96 1/2	14 3/16 x 80 7/8	22 1/8 x 92 3/4	n/a
PG & CPG2/6 x 8	31 x 96	29 7/8 x 95 3/16	31 13/16 x 96 1/2	20 3/16 x 80 7/8	28 1/8 x 92 3/4	n/a
PG & CPG2/8 x 8	33 x 96	31 7/8 x 95 3/16	33 13/16 x 96 1/2	22 3/16 x 80 7/8	30 1/8 x 92 3/4	n/a
PG & CPG3 x 8	37 x 96	35 7/8 x 95 3/16	37 13/16 x 96 1/2	26 3/16 x 80 7/8	34 1/8 x 92 3/4	n/a
<a href="#">Click here for Narrow Sidelite Specs</a>						

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 Phone: (715) 536-8112  
 Fax: (715) 536-4329  
 E-mail: [parkvue@park-vue.com](mailto:parkvue@park-vue.com)

Merrill Millwork Park-Vue specializes in wood patio doors, sliding patio doors, swinging patio doors, hinged patio doors, clad patio doors, french patio doors, replacement patio doors, custom patio doors, custom size patio doors, custom wood patio doors, custom clad patio doors, gliding patio doors, outswing patio doors, outswing wood patio doors, outswing clad patio doors, frame systems, clad frame systems, reversible patio doors.

Merrill Millwork

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**PARK-VUE**  
 PATIO DOORS

## Swinging Patio Doors

### InSwing Patio Door System Specifications

Unit Name	Rough Opening	Frame OSM	Brickmould OSM (PG only)	7/8" Glass Size	Sash Size	Screen Size
<b>Standard 6/9 Height</b>						
<b>Two-Panel Units</b>						
PG & CPG4	47 1/2 x 81	46 7/8 x 80 3/16	48 7/8 x 81 1/2	14 3/16 x 65 7/8	22 1/8 x 77 3/4	22 3/4 x 78 5/8
PG & CPG5	59 1/2 x 81	58 7/8 x 80 3/16	60 7/8 x 81 1/2	20 3/16 x 65 7/8	28 1/8 x 77 3/4	28 3/4 x 78 5/8
PG & CPG5/4	63 1/2 x 81	62 7/8 x 80 3/16	64 7/8 x 81 1/2	22 3/16 x 65 7/8	30 1/8 x 77 3/4	30 3/4 x 78 5/8
PG & CPG6	71 1/2 x 81	70 7/8 x 80 3/16	72 7/8 x 81 1/2	26 3/16 x 65 7/8	34 1/8 x 77 3/4	34 3/4 x 78 5/8
<b>Three-Panel Units</b>						
PG & CPG7/6	88 1/2 x 81	87 7/8 x 80 3/16	89 7/8 x 81 1/2	20 3/16 x 65 7/8	28 1/8 x 77 3/4	28 3/4 x 78 5/8
PG & CPG8	94 1/2 x 81	93 7/8 x 80 3/16	95 7/8 x 81 1/2	22 3/16 x 65 7/8	30 1/8 x 77 3/4	30 3/4 x 78 5/8
PG & CPG9	106 1/2 x 81	105 7/8 x 80 3/16	107 7/8 x 81 1/2	26 3/16 x 65 7/8	34 1/8 x 77 3/4	34 3/4 x 78 5/8
<b>Single Panel Operating or Sidelite</b>						
PG & CPG2	25 x 81	23 7/8 x 80 3/16	25 13/16 x 81 1/2	14 3/16 x 65 7/8	22 1/8 x 77 3/4	n/a
PG & CPG2/6	31 x 81	29 7/8 x 80 3/16	31 13/16 x 81 1/2	20 3/16 x 65 7/8	28 1/8 x 77 3/4	n/a
PG & CPG2/8	33 x 81	31 7/8 x 80 3/16	33 13/16 x 81 1/2	22 3/16 x 65 7/8	30 1/8 x 77 3/4	n/a
PG & CPG3	37 x 81	35 7/8 x 80 3/16	37 13/16 x 81 1/2	26 3/16 x 65 7/8	34 1/8 x 77 3/4	n/a
<a href="#">Click here for Narrow Sidelite Specs</a>						
Unit Name	Rough Opening	Frame OSM	Brickmould OSM (PG only)	7/8" Glass Size	Sash Size	Screen Size
<b>6/11 Height - 6-1/2" top rails, 8-1/2" bottom rails</b>						
<b>Two-Panel Units</b>						
PG & CPG4 x 6/11	47 1/2 x 83	46 7/8 x 82 3/16	48 7/8 x 81 1/2	14 3/16 x 65 7/8	22 1/8 x 79 3/4	22 3/4 x 80 5/8
PG & CPG5 x 6/11	59 1/2 x 83	58 7/8 x 82 3/16	60 7/8 x 81 1/2	20 3/16 x 65 7/8	28 1/8 x 79 3/4	28 3/4 x 80 5/8
PG & CPG5/4x 6/11	63 1/2 x 83	62 7/8 x 82 3/16	64 7/8 x 81 1/2	22 3/16 x 65 7/8	30 1/8 x 79 3/4	30 3/4 x 80 5/8
PG & CPG6x 6/11	71 1/2 x 83	70 7/8 x 82 3/16	72 7/8 x 81 1/2	26 3/16 x 65 7/8	34 1/8 x 79 3/4	34 3/4 x 80 5/8
PG & CPG6/6 x 6/11	77 1/2 x 83	76 7/8 x 82 3/16	78 7/8 x 81 1/2	29 3/16 x 65 7/8	37 1/8 x 79 3/4	37 3/4 x 80 5/8
<b>Three-Panel Units</b>						
PG & CPG7/6 x 6/11	88 1/2 x 83	87 7/8 x 82 3/16	89 7/8 x 81 1/2	20 3/16 x 65 7/8	28 1/8 x 79 3/4	28 3/4 x 80 5/8
PG & CPG8 x 6/11	94 1/2 x 83	93 7/8 x 82 3/16	95 7/8 x 81 1/2	22 3/16 x 65 7/8	30 1/8 x 79 3/4	30 3/4 x 80 5/8
PG & CPG9 x 6/11	106 1/2 x 83	105 7/8 x 82 3/16	107 7/8 x 81 1/2	26 3/16 x 65 7/8	34 1/8 x 79 3/4	34 3/4 x 80 5/8
PG & CPG9/9 x 6/11	115 1/2 x 83	114 7/8 x 82 3/16	116 7/8 x 81 1/2	29 3/16 x 65 7/8	37 1/8 x 79 3/4	37 3/4 x 80 5/8
<b>Single Panel Operating or Sidelite</b>						
PG & CPG2x 6/11	25 x 83	23 7/8 x 82 3/16	25 13/16 x 81 1/2	14 3/16 x 65 7/8	22 1/8 x 79 3/4	n/a
PG & CPG2/6 x 6/11	31 x 83	29 7/8 x 82 3/16	31 13/16 x 81 1/2	20 3/16 x 65 7/8	28 1/8 x 79 3/4	n/a
PG & CPG2/8 x 6/11	33 x 83	31 7/8 x 82 3/16	33 13/16 x 81 1/2	22 3/16 x 65 7/8	30 1/8 x 79 3/4	n/a

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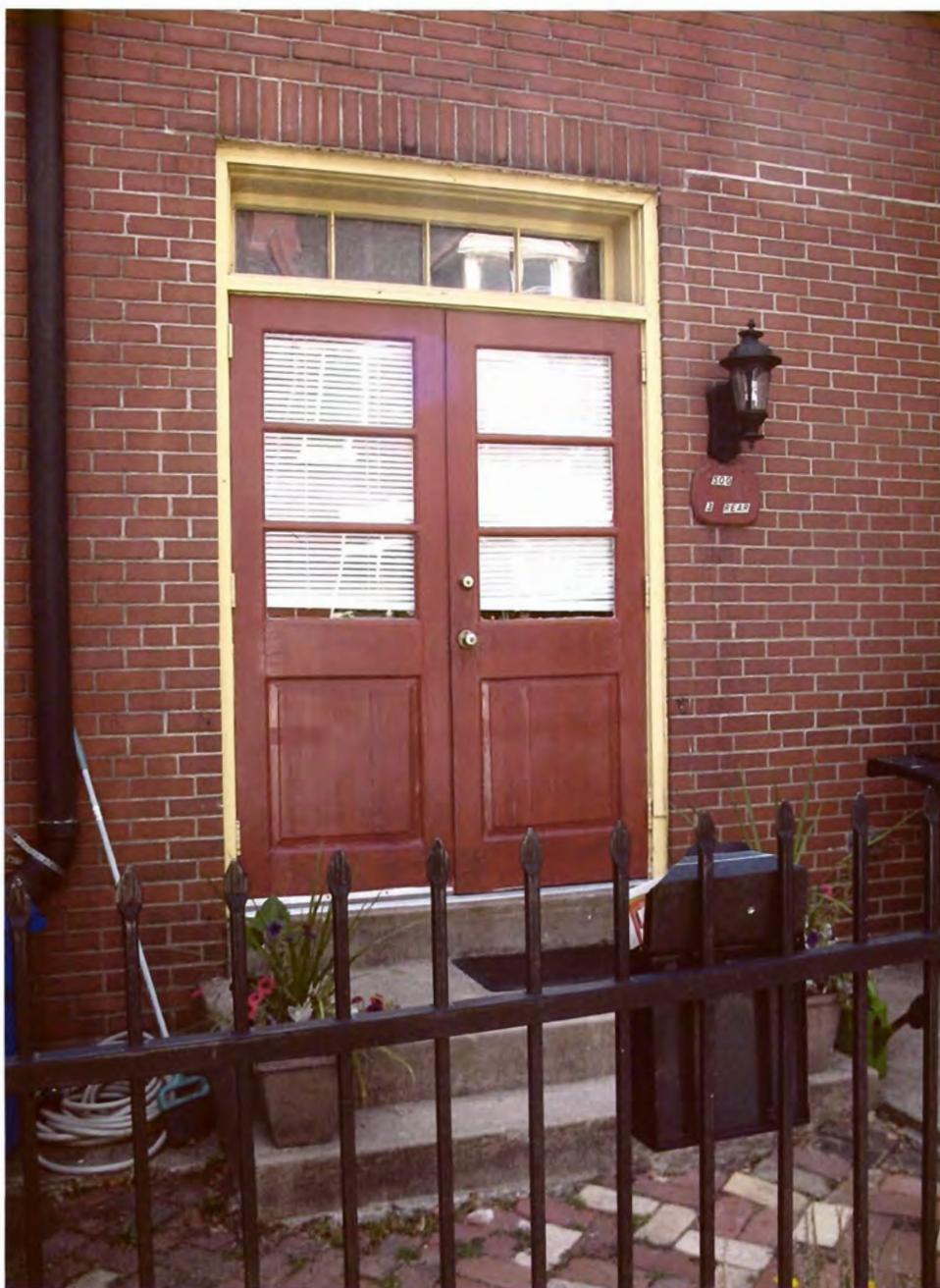
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Front doors to  
main part of house on W. North



existing out swing doors  
with 1960's transom



Division of Development Administration and Review  
 City of Pittsburgh, Department of City Planning  
 200 Ross Street, Third Floor  
 Pittsburgh, Pennsylvania 15219

**HISTORIC REVIEW COMMISSION OF PITTSBURGH**  
**Application for a Certificate of Appropriateness**

- Staff Use -

**DEADLINES:**  
 Completed Applications must be submitted 15 days prior to next HRC hearing, when a hearing is required.

**FEE SCHEDULE:** See attached  
 Please make check payable to Treasurer, City of Pittsburgh

Fee Paid:  \$ \_\_\_\_\_

Date Received: \_\_\_\_\_  
 Hearing Date: \_\_\_\_\_  
 Lot and Block #: \_\_\_\_\_

**ADDRESS OF PROPERTY:** 920 Fort Duquesne Boulevard  
Pittsburgh, PA 15222

**HISTORIC DISTRICT:** Penn-Liberty Historic District

**OWNER**

Name: 920 Fort Duquesne Associates  
 Address: 920 Fort Duquesne Boulevard  
 City, State, Zip: Pittsburgh, PA 15222  
 Phone: ~~412~~ 261-1842 Fax: ~~412~~ 904-6749  
 E-MAIL: \_\_\_\_\_

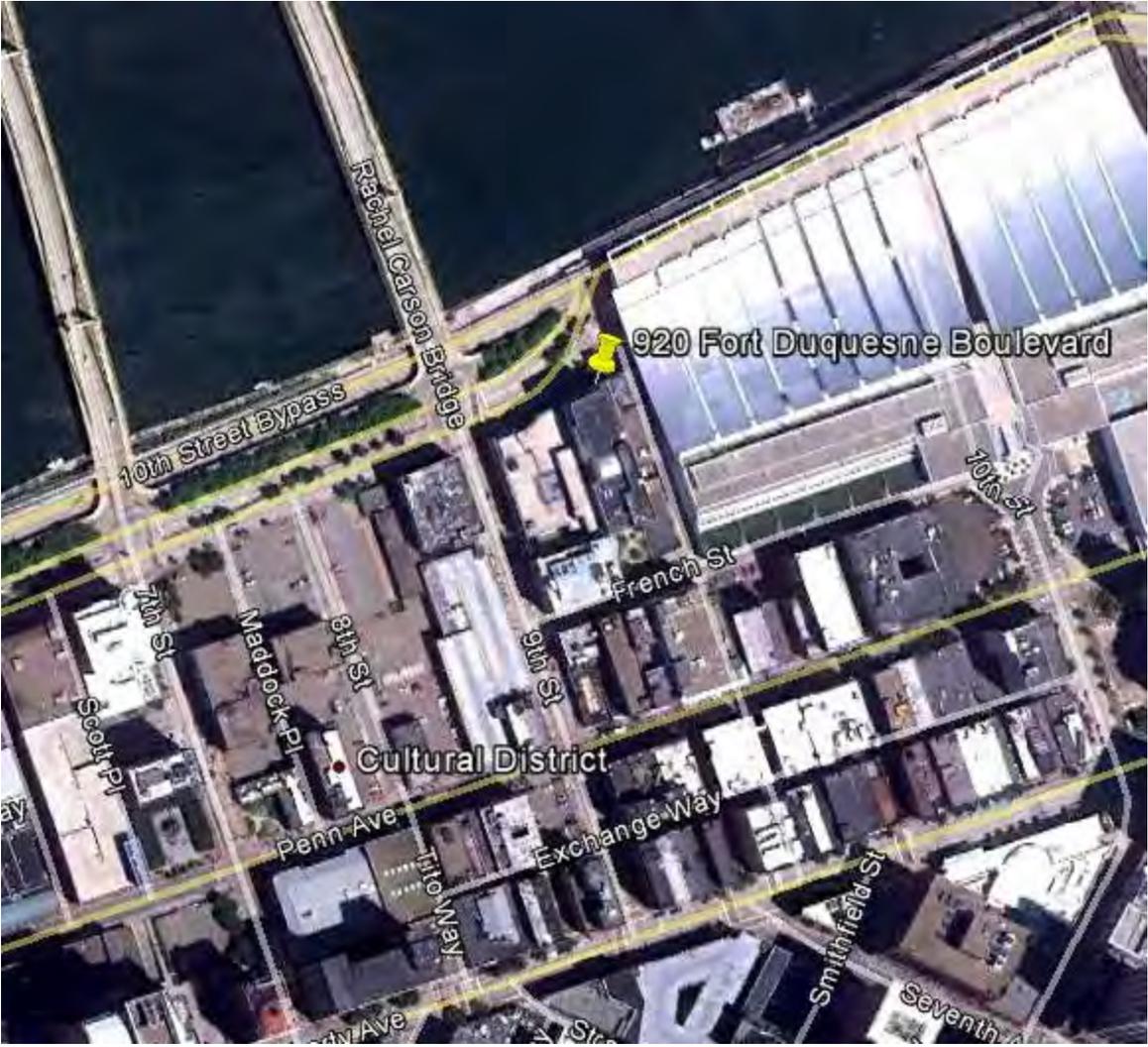
**APPLICANT**

Name: Designstream LLC  
 Address: 100 Seventh Street, Suite 100  
 City, State, Zip: Pittsburgh, PA 15222  
 Phone: ~~412~~ 325-2100 Fax: ~~412~~ 325-2106  
 E-MAIL: kturkall@dsstudio.biz

**REQUIRED ATTACHMENTS:**  Drawings  Photographs  Renderings  Site Plan  Other

**DETAILED DESCRIPTION OF PROPOSED WORK:** Facade Renovation - 1st Floor North

**SIGNATURE** \_\_\_\_\_, Owner **DATE** \_\_\_\_\_  
Kevin C. Hall Applicant **DATE** 06-15-2012





# Proposed Model

Revised 12-Jul-2012



## The Henderson Brothers Building North Facade Renovation

920 Fort Duquesne Boulevard  
Pittsburgh, Pennsylvania



# Proposed Model

Revised 12-Jul-2012



## The Henderson Brothers Building North Facade Renovation

920 Fort Duquesne Boulevard  
Pittsburgh, Pennsylvania



Division of Development Administration and Review

City of Pittsburgh, Department of City Planning

200 Ross Street, Third Floor

Pittsburgh, Pennsylvania 15219

HISTORIC REVIEW COMMISSION OF PITTSBURGH

Application for a Certificate of Appropriateness

DEADLINE:

Completed applications must be received at least 13 working days prior to the HRC hearing, when a hearing is required

STAFF USE ONLY:

DATE RECEIVED: 7/12/12

LOT AND BLOCK NUMBER: 22-8-24

WARD: 21st

FEE PAID: 100

FEE SCHEDULE:

See attached. Please make check payable to: Treasurer, City of Pittsburgh.

ADDRESS OF PROPERTY:

1003- Sheffield ST (rear)  
Pgh Pa 15233

DISTRICT:

Manchester

OWNER:

NAME: Paul Carlson

ADDRESS: 1003- Sheffield  
Pgh Pa 15233

PHONE: 412-926-2287

EMAIL:

APPLICANT:

NAME: Walter Puzalowski

ADDRESS: 4017- Butler St  
Pgh PA 15201

PHONE: 412-687-6928

EMAIL: Pghwalt@gmail.com

REQUIRED ATTACHMENTS:

- Drawings  Photographs  Renderings  Site Plan  Other

DETAILED DESCRIPTION OF PROPOSED PROJECT:

Demolish garage (one story brick) rear of Property.

SIGNATURES:

OWNER: DATE:

APPLICANT: Walter Puzalowski DATE: 7/12/12









