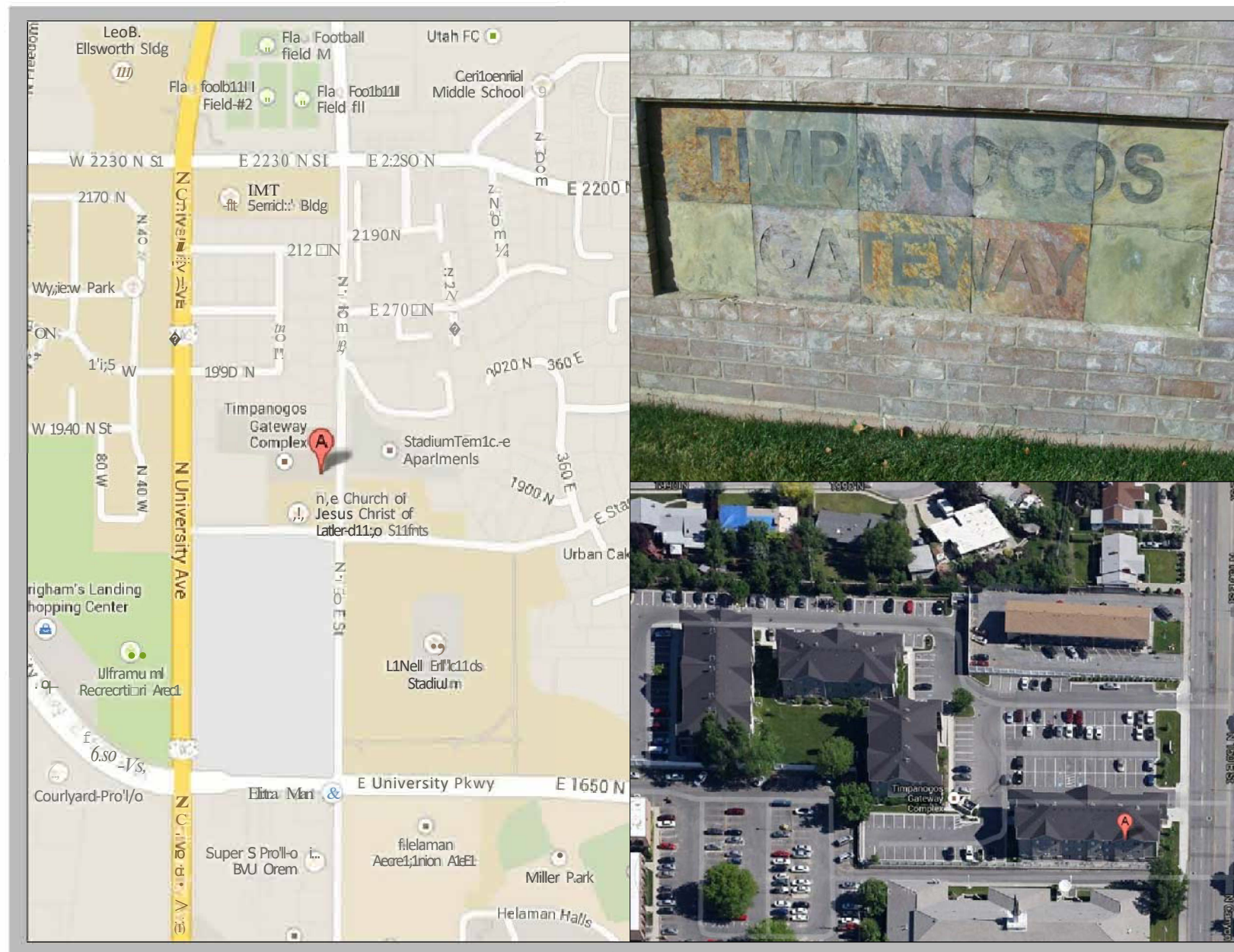


FTTP - FIBER TO THE PREMISE PROJECT

**TIMPANOGOS GATEWAY
1931 N CANYON RD
PROVO, UT 84604**



GOOGLE FIBER MDU DESIGN

DESIGN PRESENTED FOR APPROVAL

MASTEC TASK#: **1931NCANRD-E**
 FIBERHOOD: **TBD**
 PROJECT CODE: **TBD**

AGREED UPON BY: _____ DATE: _____

GEO CODE: **40.259533° -111.656400°**
 COUNTY: **UTAH**
 PROPERTY CONTACT: _____

AGREED UPON BY: _____ DATE: _____

MASTEC FIELD ENGINEER: _____
 PROPERTY ATTENDEE: **KARLA**
 DRAWING NOT TO SCALE

PROPERTY STYLE: **LOW RISE**
 PROPERTY TYPE: **CONDOS**
 DRAWN & ENGINEERED BY: _____

LIVING UNITS: **57**
 OFFICE / AMENITIES: **0**
 COMMERCIAL: **0**

SHEET: **01**
 PAGE: **COVER PAGE**
 DATE: **11/21/2013**

CONSTRUCTION NOTES

OSP NOTES

- BUILDINGS ARE FED FROM PEDS 6514, & PED 6445 AS SHOWN ON DRAWING.
- NEW 1" UNDERGROUND CONDUIT FROM PEDESTALS TO EACH NEW NOP BOX ON SIDE OF EACH BUILDING, INSTALL AS SHOWN.
- TEST ALL FIBERS FROM NOP TO EACH PEDESTAL & FIBER MEET POINT.

ISP NOTES

- FROM NOP BOX INSTALL FIBERS IN IVORY RAIN GUTTER MOLDING TO ROOF LINE.
- INSTALL ONE MICRO-DUCT PER-UNIT THROUGH ATTIC SPACE ATTACHED TO RAFTERS INTO BEDROOM WALK IN CLOSET.
- INSTALL FIBER JACK NEXT TO EXISTING TELEPHONE BOX WHICH CONTAINS EXISTING HOME RUN COAX & ETHERNET TO EACH ROOM. TELEPHONE BOX ALSO HAS DUPLEX RECEPTACLE FOR POWER INSIDE.
- TEST ALL FIBERS FROM FIBER JACK TO EACH NOP.
- FIRE STOP ALL HOLES TO SPECIFICATION AND CODE.
- 100% ACCESS IS REQUIRED DURING FIBER CONSTRUCTION.

SERVING ADDRESSES

1931 N CANYON RD - 57 LIVING UNITS (4 BUILDINGS-3 FLOORS EACH)

BUILDING 1969 N - UNITS 109,110,111,112,113,114,209,210,211,212,213,214,309,310,311,312,313,314

BUILDING 1963 N - UNITS 105,106,107,108,205,206,207,208,305,306,307,308

BUILDING 1937 N - UNITS 101, 102, 103,104,201,202,203,204,301,302,303,304

BUILDING 1931 N - UNITS 115,116,117,118,119,215,216,217,218,219,315,316,317,318,319

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SAFETY IDENTIFICATION* PROTECTIVE MEASURES





















APPROPRIATE CAUTION AND WORK SIGNS AND ALL OTHER REQUIRED SIGNS WILL BE PLACED AND MAINTAINED WHEN AND WHERE REQUIRED THROUGHOUT THE JOB SITE UNTIL THE JOB IS COMPLETED. THE PATHWAY CREW WILL BE REQUIRED TO PROVIDE ADEQUATE PROTECTION TO ALL VEHICULAR AND PEDESTRIAN TRAFFIC BY MEANS OF SIGNS, BARRICADES, WARNING LIGHTS, CONES, ETC. WORK CREWS TO HAVE NX_UTILITIES ID BADGES. ORANGE WORK VEST TO BE WORN ON PROPERTY AT ALL TIMES. CREWS TO ADHERE TO NX_UTILITIES SAFETY MANUAL" NEX004". FOLLOW ALL OSHA/LOCAUSTATE SAFETY PRACTICES.

CONSTRUCTION PATHWAY CREW:

CLEAN UP WORK AREA DAILY. PROVIDE DAILY UPDATE TO PROJECT MANAGER VIA E-MAIL. PROVIDE ASBUILT UPON COMPLETION OF PROJECT. IF OBSERVED THAT SITE JOB IT IS NOT IN COMPLETE ACCORDANCE WITH PRINT, FOR ANY FIELD ISSUE, CONSULT THE FIELD SUPERVISOR.

LEGEND

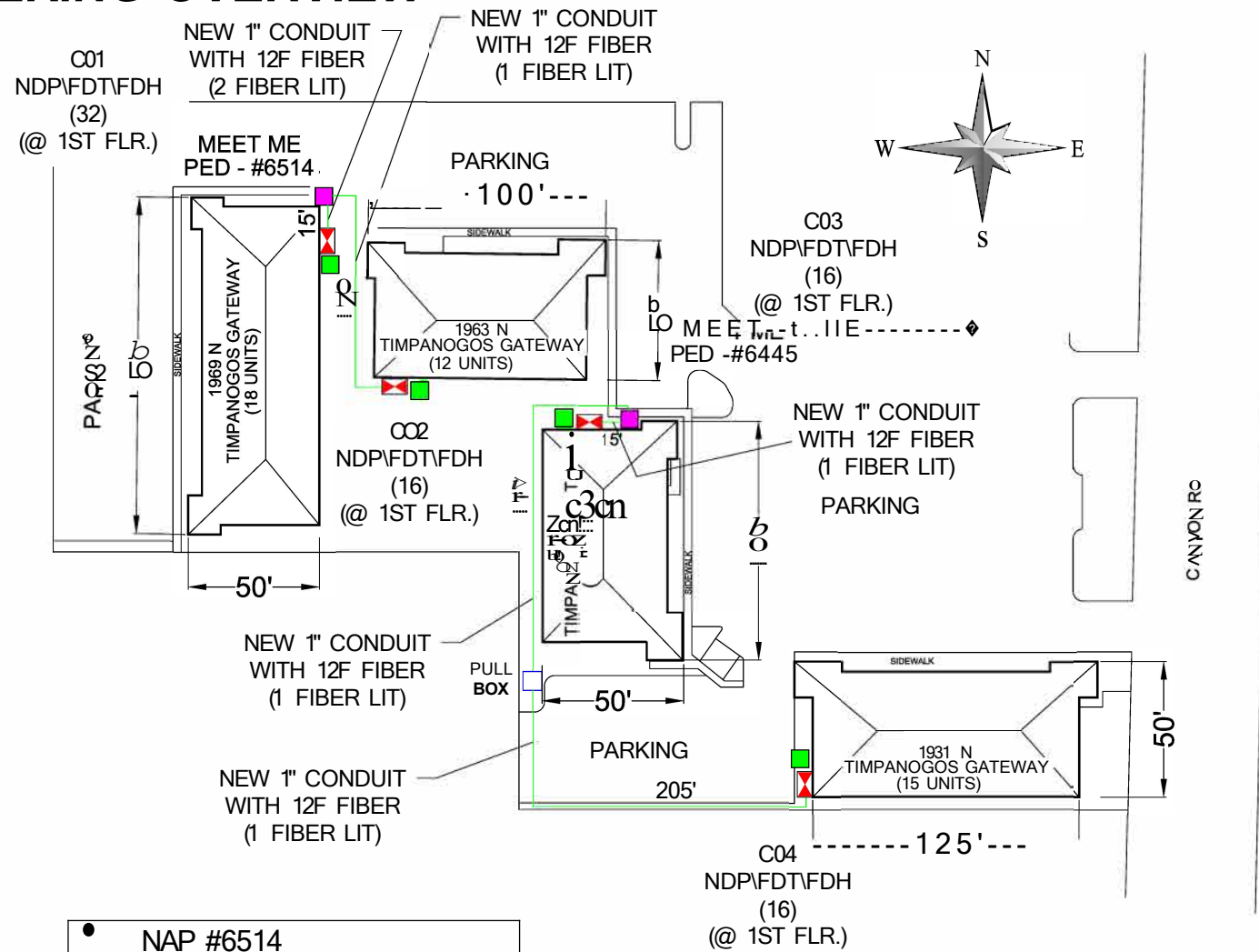
DRAWN & ENGINEERED BY:

NETWORK DEMARK POINT	B	MICRO-DUCT		CORE DRILL	
SPLICE POINT		MICRO-DUCT RISER		PENETRATION	
DISTR. / ACCESS FIBER		MOLDING		POWER OUTLET	
DISTR. / ACCESS RISER		MOLDING RISER		CATV OUTLET	
VERACITY EQUIPMENT		HAND VAULT		CONDUIT RISER	
IPROVO PEDESTAL		FIBER JACK		CONDUIT	
FDH / FDT MODULE COMBO		NIU PLATE		PULL BOX	

FIELD ENGINEER: MICHAEL GIUSTINIANI			
DESIGN ENGINEER: CASEY KNIGHT			
DESIGN	REV	DESCRIPTION	DATE
DRAWN BY: MASTEC / INIT		INITIAL ISSUE	11/21/2013
DRAWN BY:			
DRAWN BY:			
DRAWN BY:			

TIMPANOGOS GATEWAY	
1931 N CANYON RD	
PROVO, UT 84604	
PROJECT CODE:	TBD
TASK#:	1931 NCANRD-E
FIBERHOOD:	TBD
BUILDINGS: 4	UNITS: 57
SHEET 02	

ENGINEERING OVERVIEW



- NAP #6514
- HUT #10
- (2)12F, 4 SPLICED INTO EXISTING FIBER
- 3 LIT UP
- MDU SPLITTER

- NAP #6645
- HUT #10
- (2)12F, 3 SPLICED INTO EXISTING FIBER
- 2 LIT UP
- MDU SPLITTER



NAP2



NAP



TYP. NOP WITH RAIN GUTTER AND MD RISER TO ATTIC



RISER TO ATTIC



BR B WIRING1



VERACITY

LEGEND

NETWORK DEMARK POINT	B	MICRO-DUCT		CORE DRILL	
SPLICE POINT		MICRO-DUCT RISER		PENETRATION	
DISTR. / ACCESS FIBER		MOLDING		POWER OUTLET	
DISTR. / ACCESS RISER		MOLDING RISER		CATV OUTLET	
VERACITY EQUIPMENT		HAND VAULT		CONDUIT RISER	
IPROVO PEDESTAL		FIBER JACK		CONDUIT	
FDH / FDT MODULE COMBO		NIU PLATE		PULL BOX	

DRAWN & ENGINEERED BY:

FIELD ENGINEER: MICHAEL GIUSTINIANI

DESIGN ENGINEER: CASEY KNIGHT

DESIGN	REV	DESCRIPTION	DATE
DRAWN BY: / INT		INITIAL ISSUE	11/21/2013
DRAWN BY:			
DRAWN BY:			
DRAWN BY:			

TIMPANOGOS GATEWAY
1931 N CANYON RD
PROVO, UT 84604

PROJECT CODE:
TBD

MASTEC TASK#: **1931 NCANRD-E**

FIBERHOOD: **TBD**

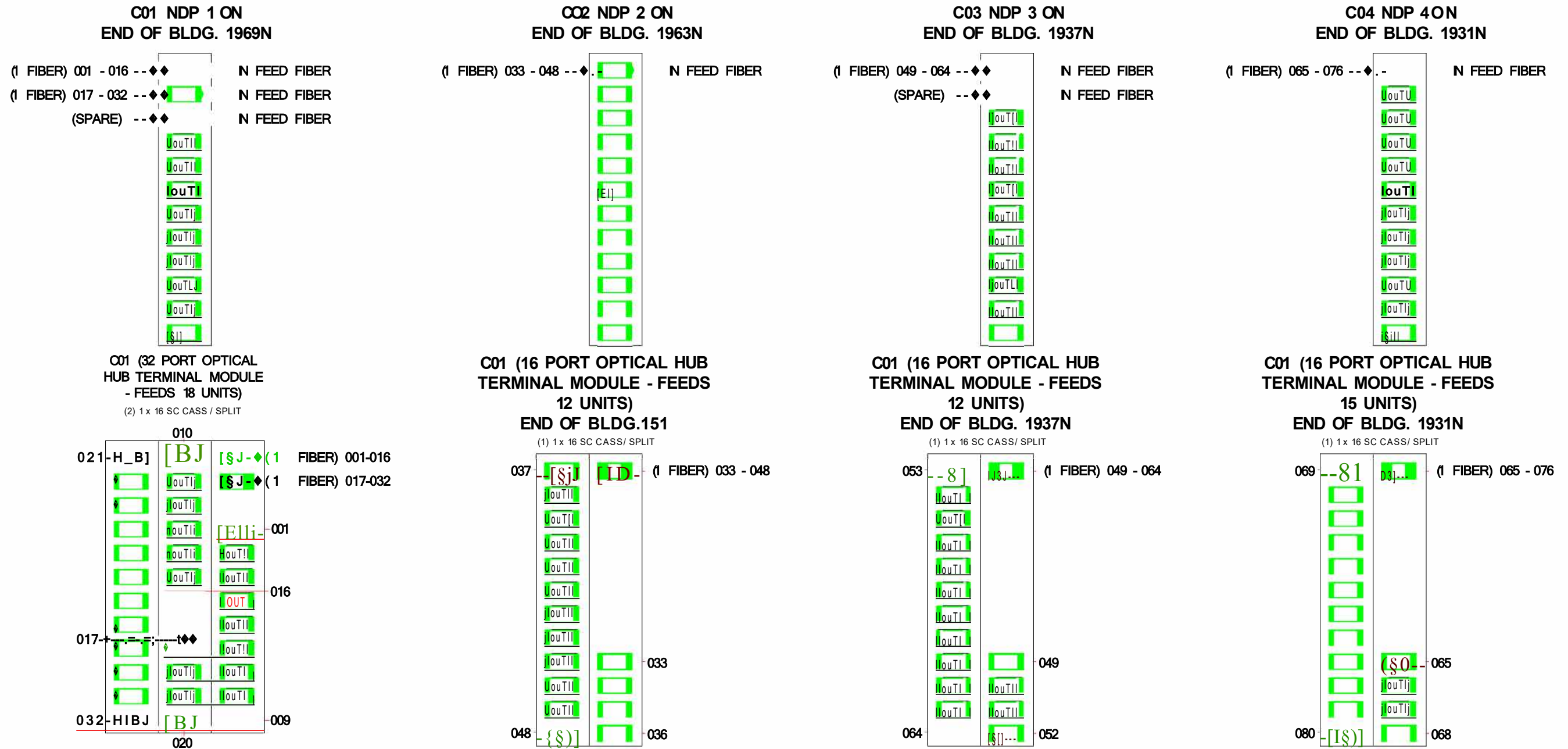
BUILDINGS: **4**

UNITS: **57**

SHEET

03

OPTICAL DESIGN



LEGEND

NETWORK DEMARK POINT	B	MICRO-DUCT		CORE DRILL	
SPLICE POINT		MICRO-DUCT RISER		PENETRATION	
DISTR. / ACCESS FIBER		MOLDING		POWER OUTLET	
DISTR. / ACCESS RISER		MOLDING RISER		CATV OUTLET	
VERACITY EQUIPMENT		HAND VAULT		CONDUIT RISER	
IPROVO PEDESTAL		FIBER JACK		CONDUIT	
FDH / FDT MODULE COMBO		NIU PLATE		PULL BOX	

DRAWN & ENGINEERED BY:



FIELD ENGINEER:

DESIGN ENGINEER: CASEY KNIGHT

DESIGN	REV	DESCRIPTION	DATE
DRAWN BY: / INT		INITIAL ISSUE	11/21/2013
DRAWN BY:			
DRAWN BY:			
DRAWN BY:			

TIMPANOGOS GATEWAY
1931 N CANYON RD
PROVO, UT 84604

PROJECT CODE:

TBD

MASTEC TASK#: **1931 NCANRD-E**

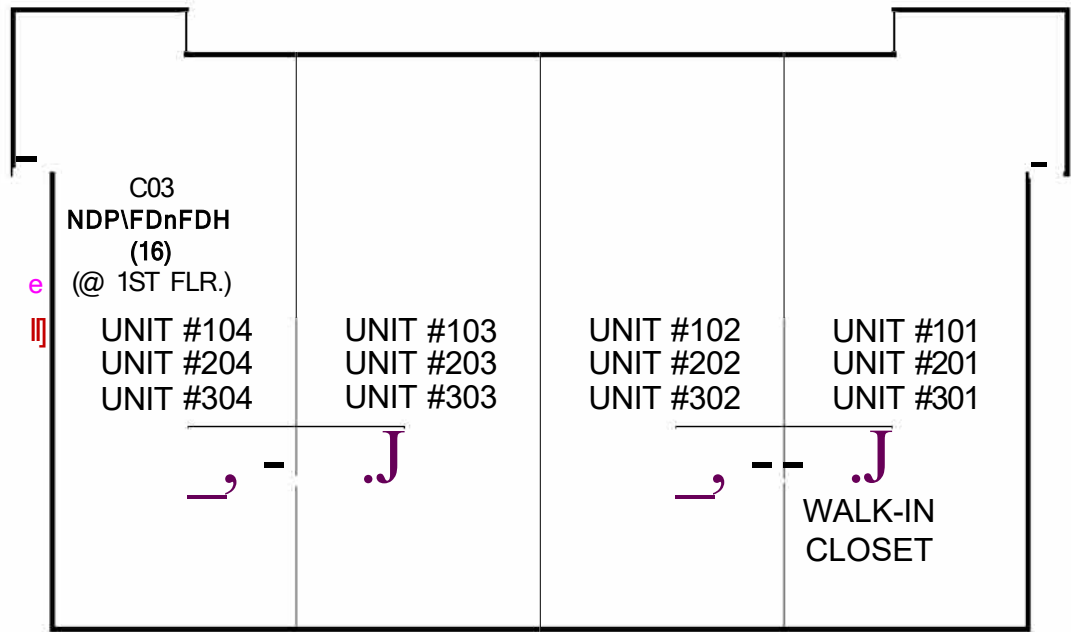
FIBERHOOD: **TBD**

BUILDINGS: **4**

UNITS: **57**

SHEET
04

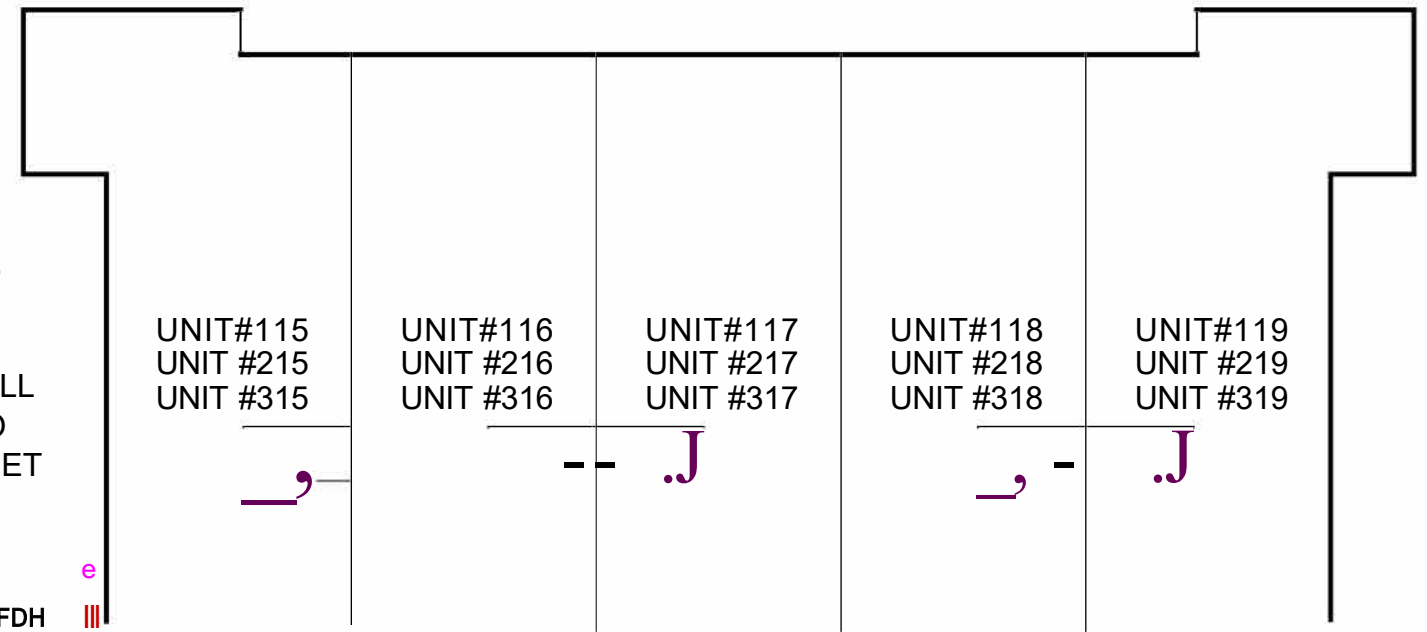
BUILDING TOP VIEW FLOORS 1-3



1937N 12 UNITS

NOTE: UNIT LAYOUTS ARE TYPICAL FOR ALL FLOORS

NOTE: FIBER JACKS IN BEDROOM CLOSETS OF ALL UNITS INSTALLED NEXT TO STRUCTURED WIRING CABINET

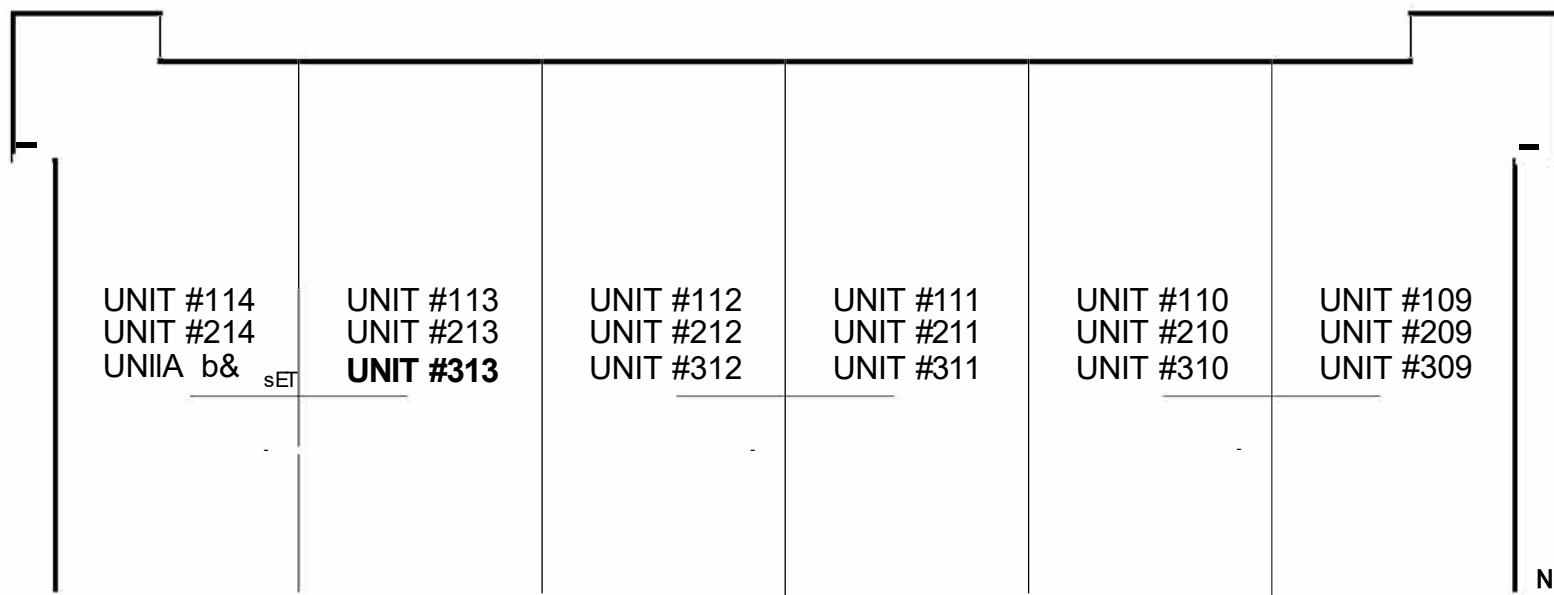


1931N 15 UNITS

C04
NDP\FDT\FDH
(16)
(@ 1ST FLR.)

NOTE: ATTIC ACCESS IN EACH 3RD FLOOR UNIT

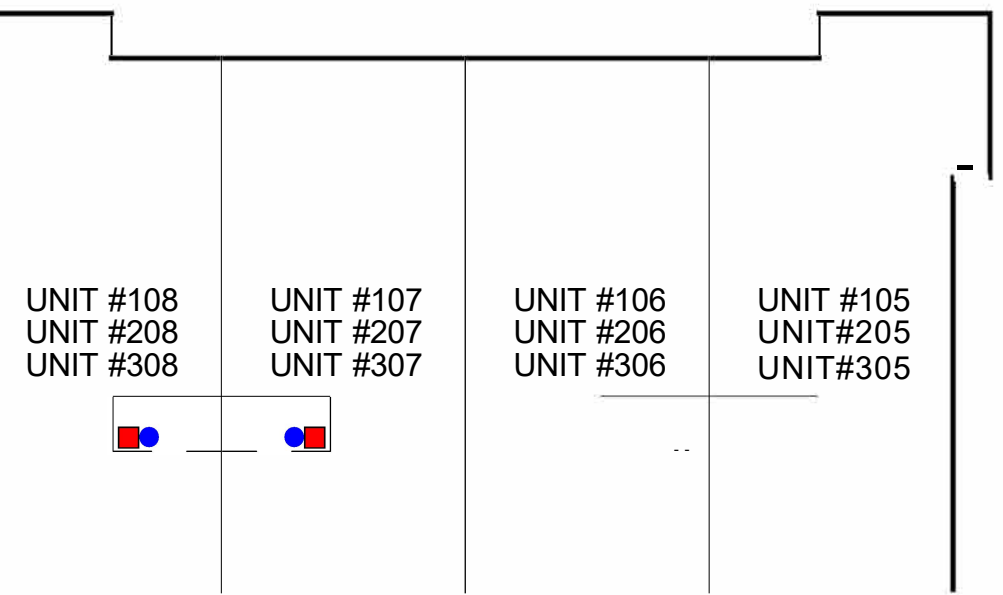
IVORY RAIN GUTTER MOLDING FOR ALL EXTERIOR RISERS



1969N 18 UNITS

C01
NDP\FDn\FDH
(32)
(@ 1ST FLR.)

C02
NDP\FDn\FDH
(16)
(@ 1ST FLR.)



1963N 12 UNITS

LEGEND

DRAWN & ENGINEERED BY:

TIMPANOGOS GATEWAY 1931 N CANYON RD

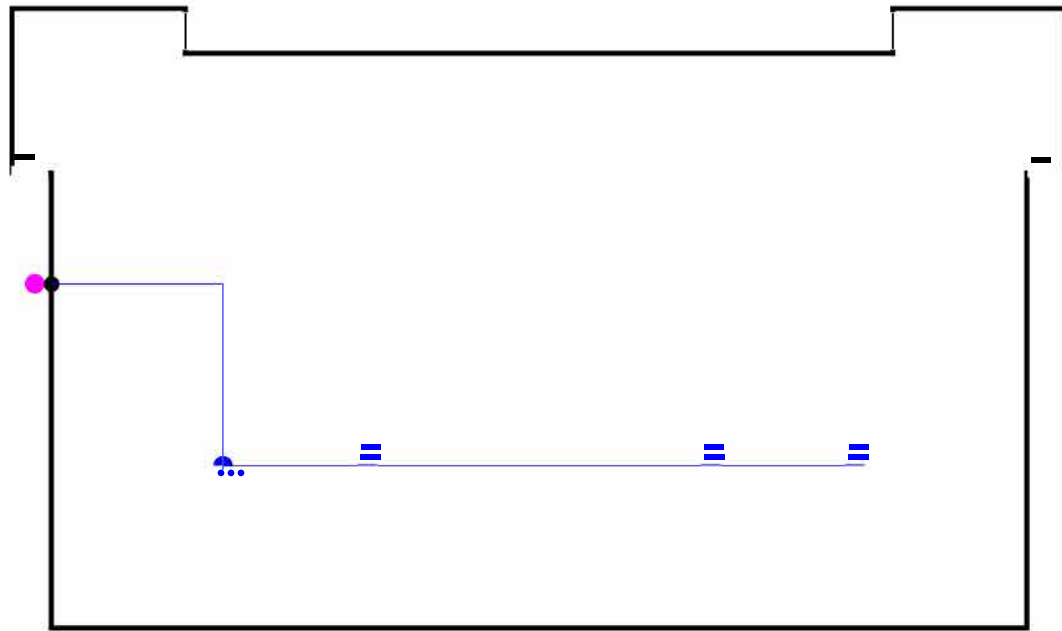
NETWORK DEMARK POINT	B	MICRO-DUCT		CORE DRILL	
SPLICE POINT		MICRO-DUCT RISER		PENETRATION	
DISTR. / ACCESS FIBER		MOLDING		POWER OUTLET	
DISTR. / ACCESS RISER		MOLDING RISER		CATV OUTLET	
VERACITY EQUIPMENT				CONDUIT RISER	
IPROVO PEDESTAL		FIBER JACK		CONDUIT	
FDH / FDT MODULE COMBO		NIU PLATE		PULL BOX	

FIELD ENGINEER: MICHAEL GIUSTINIANI			
DESIGN ENGINEER: CASEY KNIGHT			
DESIGN	REV	DESCRIPTION	DATE
DRAWN BY: / INT		INITIAL ISSUE	11/21/2013
DRAWN BY:			
DRAWN BY:			
DRAWN BY:			

PROJECT CODE: TBD	
MASTEC TASK#: 1931 NCANRD-E	
FIBERHOOD: TBD	SHEET 05
BUILDINGS: 4	UNITS: 57

BUILDING TOP VIEW

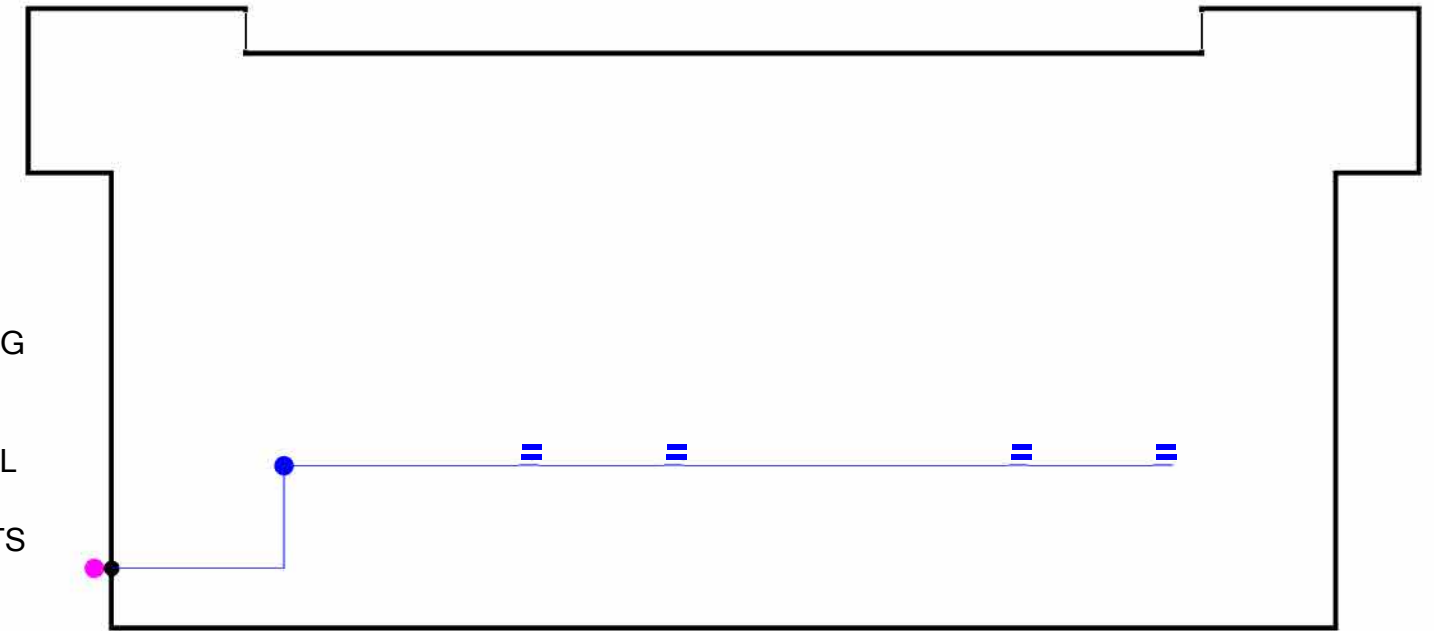
ATTIC



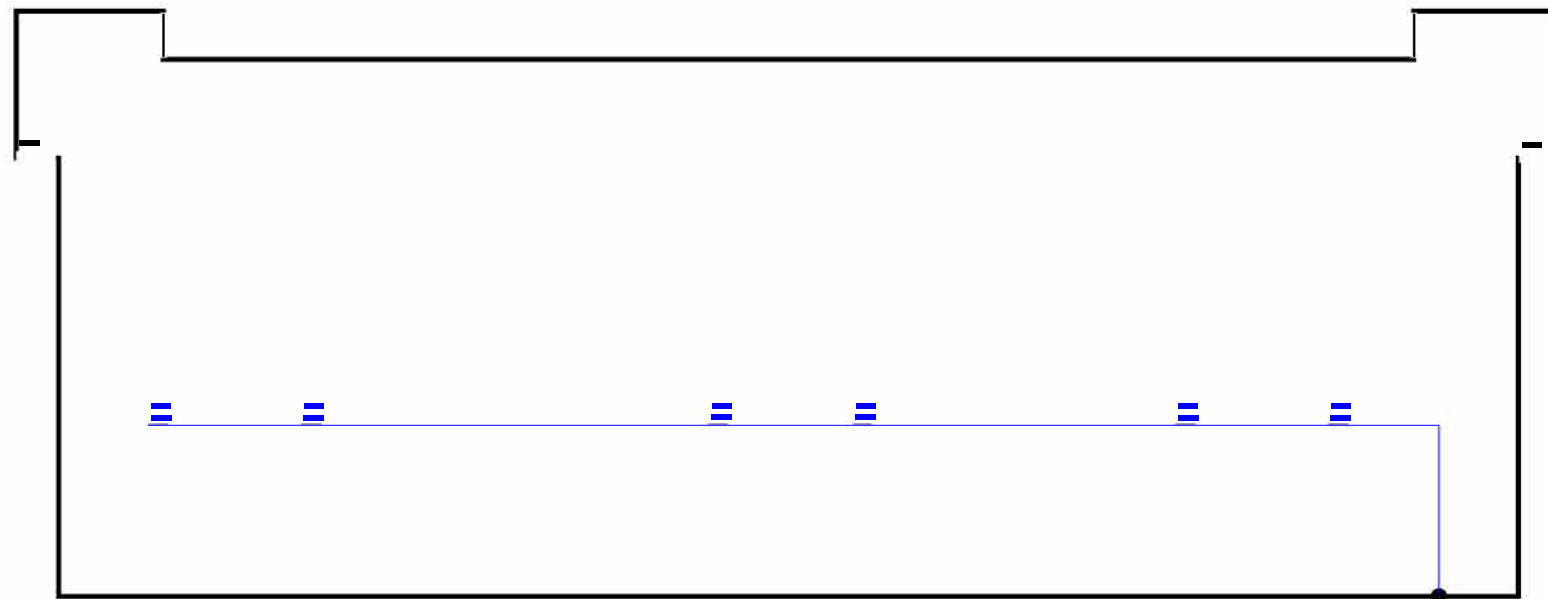
1937N 12 UNITS

IVORY RAIN GUTTER MOLDING FOR ALL EXTERIOR RISERS

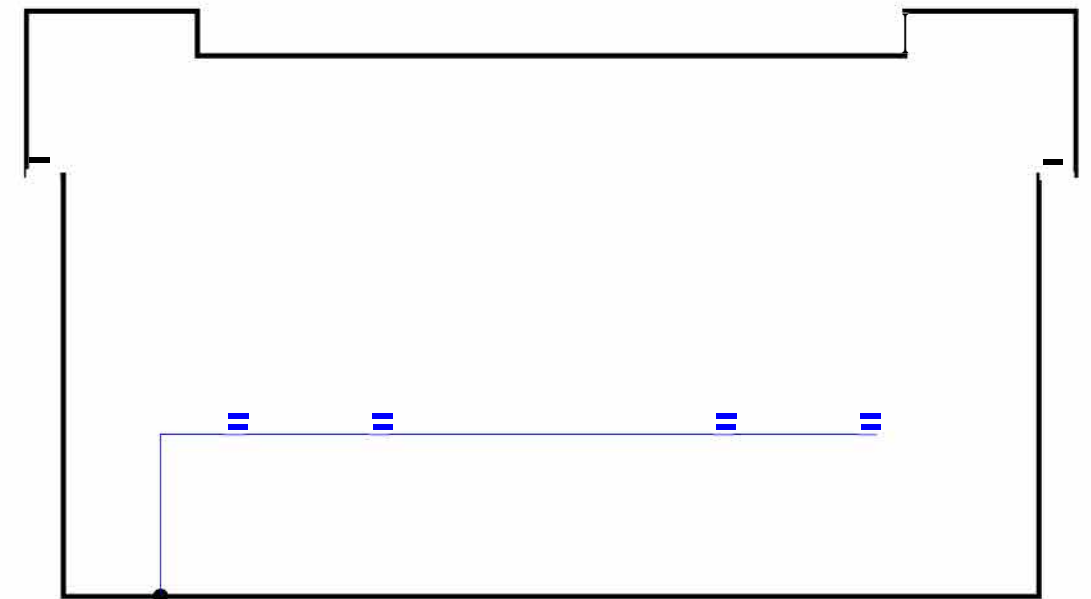
MICRODUCT RISERS FOR ALL UNITS ARE LOCATED IN STACKED BEDROOM CLOSETS



1931N 15 UNITS



1969N 18 UNITS



1963N 12 UNITS

LEGEND

NETWORK DEMARK POINT	B	MICRO-DUCT		CORE DRILL	
SPLICE POINT		MICRO-DUCT RISER		PENETRATION	
DISTR. / ACCESS FIBER		MOLDING		POWER OUTLET	
DISTR. / ACCESS RISER		MOLDING RISER		CATV OUTLET	
VERACITY EQUIPMENT		HAND VAULT		CONDUIT RISER	
IPROVO PEDESTAL		FIBER JACK		CONDUIT	
FDH / FDT MODULE COMBO		NIU PLATE		PULL BOX	

FIELD ENGINEER: MICHAEL GIUSTINIANI

DESIGNER: CASEY KNIGHT

DESIGN	REV	DESCRIPTION	DATE
DRAWN BY: / INIT		INITIAL ISSUE	11/21/2013
DRAWN BY:			
DRAWN BY:			
DRAWN BY:			

TIMPANOGOS GATEWAY

1931 N CANYON RD

PROVO, UT 84604

PROJECT CODE:

TBD

MASTEC TASK#: 1931 NCANRD-E

FIBERHOOD: TBD

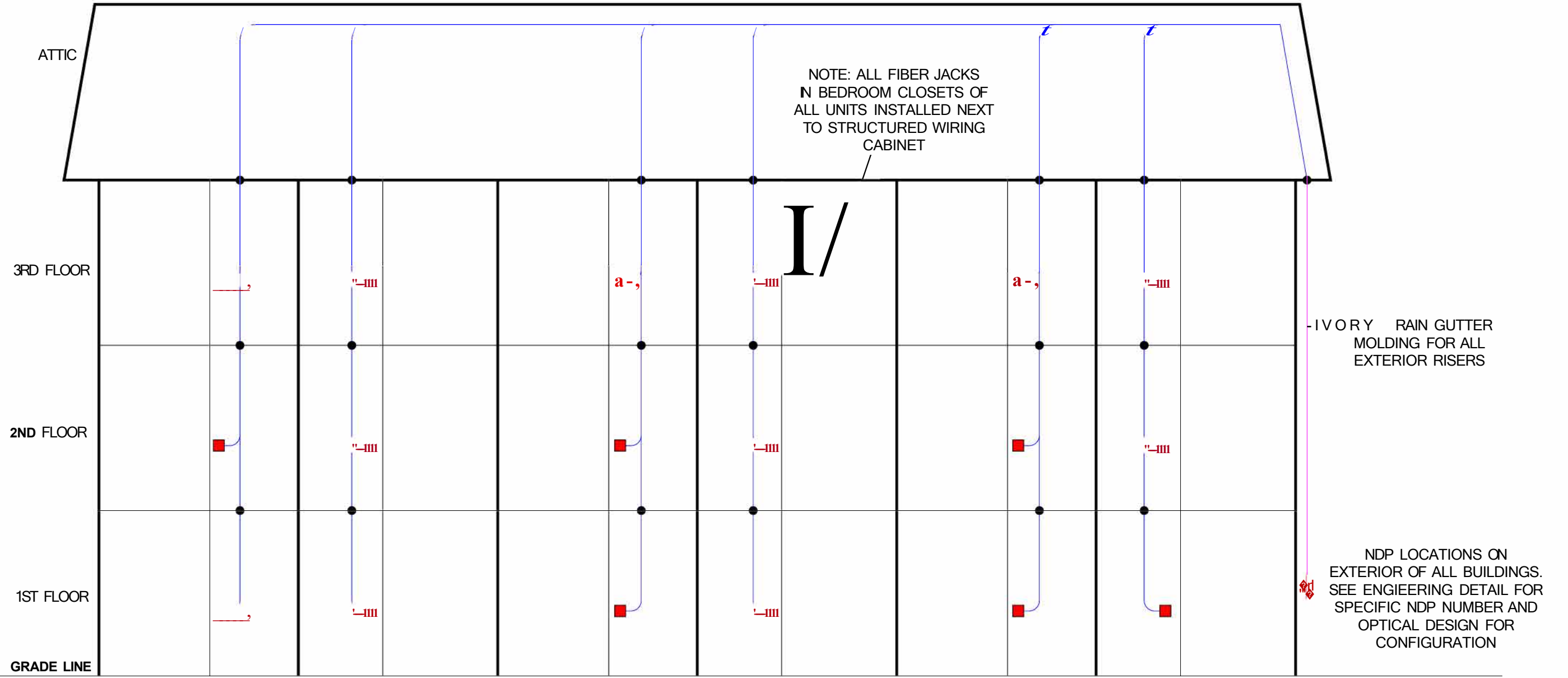
BUILDINGS: 4

UNITS: 57

SHEET

06

RISER DIAGRAM



RISER DETAIL IS TYPICAL FOR ALL BUILDINGS REGARDLESS OF NUMBER OF UNITS. NUMBER OF RISERS FOR EACH BUILDING MAY VARY TO ACCOMMODATE THE ACTUAL NUMBER OF UNITS. MICRODUCT RISERS TRAVEL THROUGH STACKED BEDROOM CLOSETS OF ALL UNITS

LEGEND

NETWORK DEMARK POINT	B	MICRO-DUCT		CORE DRILL	
SPLICE POINT		MICRO-DUCT RISER		PENETRATION	
DISTR. / ACCESS FIBER		MOLDING		POWER OUTLET	
DISTR. / ACCESS RISER		MOLDING RISER		CATV OUTLET	
VERACITY EQUIPMENT		HAND VAULT		CONDUIT RISER	
IPROVO PEDESTAL		FIBER JACK		CONDUIT	
FDH / FDT MODULE COMBO		NIU PLATE		PULL BOX	

DRAWN & ENGINEERED BY:

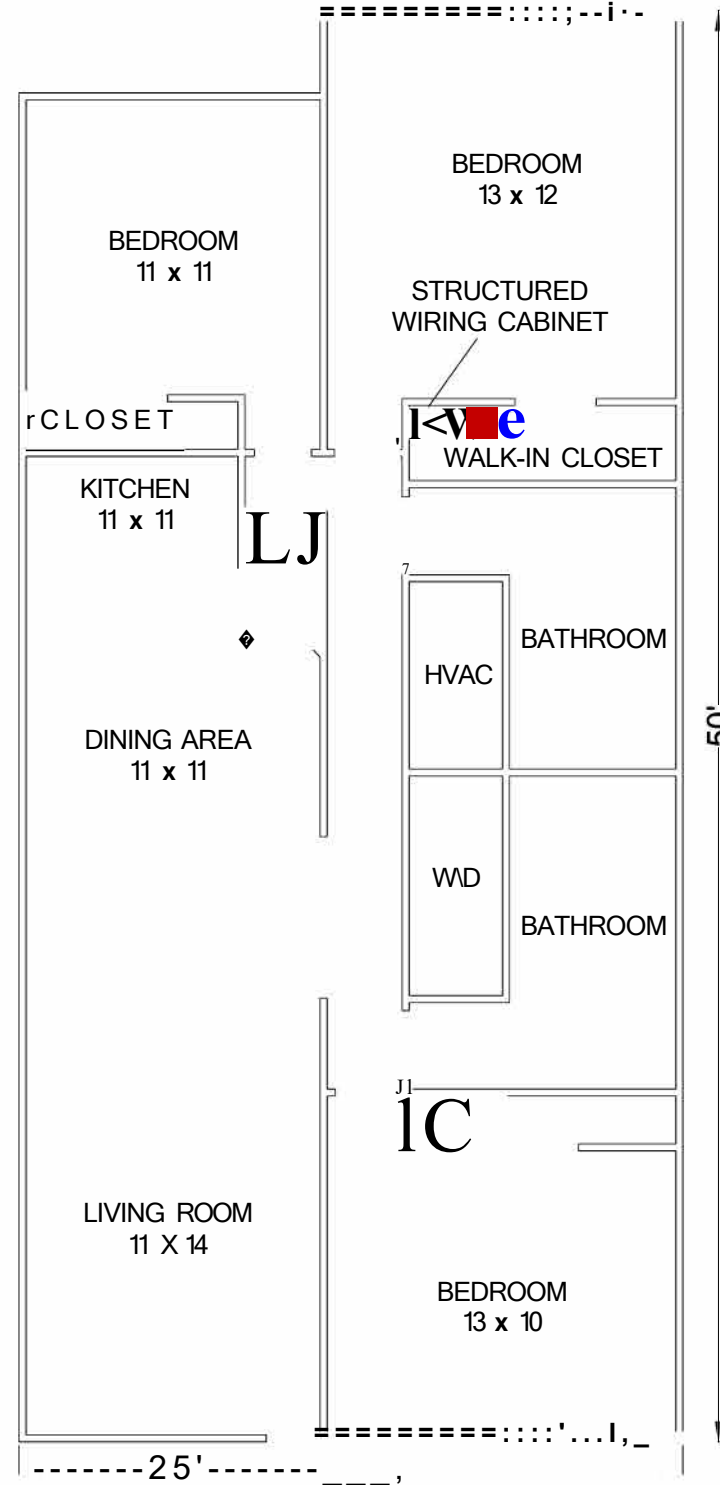
FIELD ENGINEER: MICHAEL GIUSTINIANI			
DESIGN ENGINEER: CASEY KNIGHT			
DESIGN	REV	DESCRIPTION	DATE
DRAWN / INT		INITIAL ISSUE	11/21/2013
DRAWN BY:			
DRAWN BY:			
DRAWN BY:			

TIMPANOGOS GATEWAY 1931 N CANYON RD PROVO, UT 84604

PROJECT CODE:	TBD
MASTEC TASK#:	1931 NCANRD-E
FIBERHOOD:	TBD
BUILDINGS:	4
UNITS:	57
SHEET	07

FLOOR PLANS

NOTE: FLOOR PLAN TYPICAL FOR ALL UNITS IN ALL BUILDINGS



LEGEND

NETWORK DEMARK POINT	B	MICRO-DUCT		CORE DRILL	
SPLICE POINT		MICRO-DUCT RISER		PENETRATION	
DISTR. / ACCESS FIBER		MOLDING		POWER OUTLET	
DISTR. / ACCESS RISER		MOLDING RISER		CATV OUTLET	
VERACITY EQUIPMENT		HAND VAULT		CONDUIT RISER	
IPROVO PEDESTAL		FIBER JACK		CONDUIT	
FDH / FDT MODULE COMBO		NIU PLATE		PULL BOX	

DRAWN & ENGINEERED BY:

FIELD ENGINEER: MICHAEL GIUSTINIANI

DESIGNER: CASEY KNIGHT

DRAWN BY: / INT

DRAWN BY:

DRAWN BY:

REV

DATE

DESCRIPTION

INITIAL ISSUE

DATE

11/21/2013

TIMPANOGOS GATEWAY
1931 N CANYON RD
PROVO UT 84604

PROJECT CODE:

TBD

MASTEC TASK#: 1931 NCANRD-E

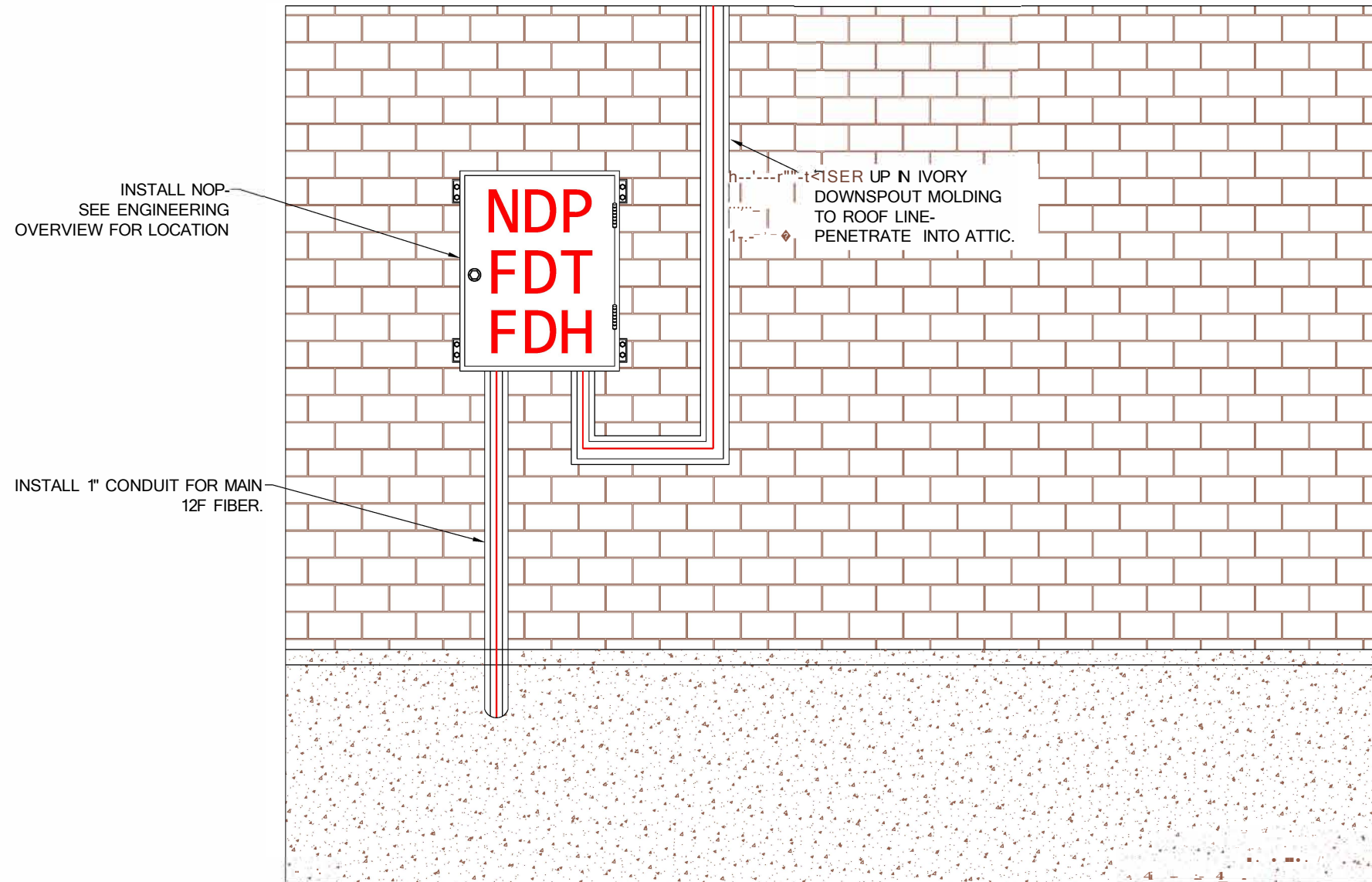
FIBERHOOD: TBD

BUILDINGS: 4

UNITS: 57

SHEET
08

NDP INSTALLATION



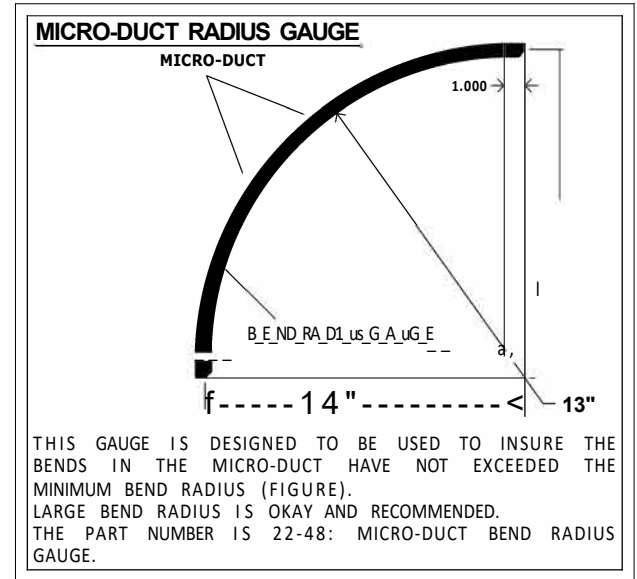
NOP INSTALLATION TYPICAL FOR ALL BUILDINGS SEE INFO BELOW FOR SPECIFIC CONFIGURATION

C01 NDP\FDnFDH
(32) (@ 1ST FLR.)
2 FIBERS LIT
FROM PED# 6514

C02 NDP\FDT\FDH
(16) (@ 1ST FLR.)
1 FIBER LIT
FROM PED# 6514

C03 NDP\FDnFDH
(16) (@ 1ST FLR.)
1 FIBER LIT
FROM PED #6445

C04 NDP\FDnFDH
(16) (@ 1ST FLR.)
1 FIBER LIT
FROM PED #6445



LEGEND

NETWORK DEMARK POINT	B	MICRO-DUCT		CORE DRILL	
SPLICE POINT		MICRO-DUCT RISER		PENETRATION	
DISTR. / ACCESS FIBER		MOLDING		POWER OUTLET	
DISTR. / ACCESS RISER		MOLDING RISER		CATV OUTLET	
VERACITY EQUIPMENT		HAND VAULT		CONDUIT RISER	
IPROVO PEDESTAL		FIBER JACK		CONDUIT	
FDH / FDT MODULE COMBO		NIU PLATE		PULL BOX	

DRAWN & ENGINEERED BY:

FIELD ENGINEER: MICHAEL GIUSTINIANI

DESIGN ENGINEER: CASEY KNIGHT

DESIGN	REV	DESCRIPTION	DATE
DRAWN / INIT		INITIAL ISSUE	11/21/2013
DRAWN BY:			
DRAWN BY:			
DRAWN BY:			

TIMPANOGOS GATEWAY
1931 N CANYON RD
PROVO, UT 84604

PROJECT CODE:
TBD

MASTEC TASK#: **1931 NCANRD-E**

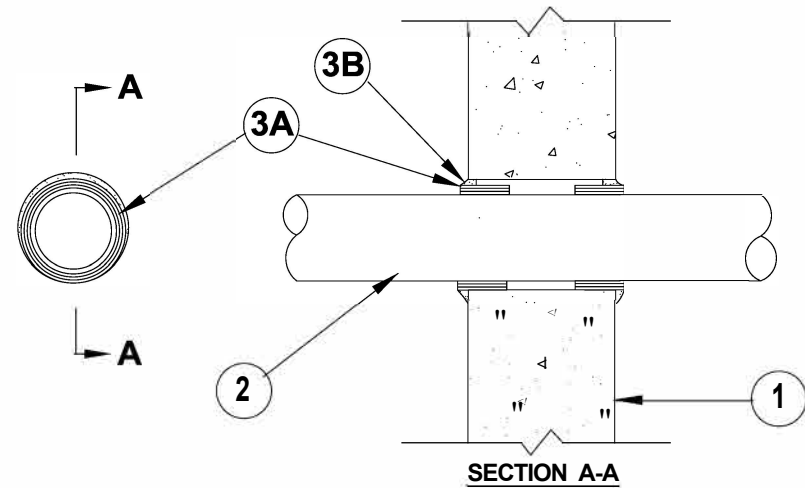
FIBERHOOD: **TBD**

BUILDINGS: **4**

UNITS: **57**

SHEET
09

System No. W-I-2152
 September 08, 2004
 F Rating - 2 Hr
 T Rating - 2 Hr



1. Wall Assembly - Min 6 in. (152 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete wall. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max diam of opening is 4-1/2 in. (114 mm).

See **Concrete Blocks** (CAZT) category in the Fire Resistance Directory for names of manufacturers.

2. Through Penetrants - One nonmetallic pipe or conduit concentrically or eccentrically within the firestop system. The annular space between penetrant and sleeve shall be min 3/8 in. (10 mm) to max 5/8 in. (16 mm). Penetrant to be rigidly supported on both sides of wall assembly. The following types and sizes of nonmetallic pipes or conduits:

A. **Polyvinyl Chloride (PVC) Pipe** - Nom 3 in. (76 mm) diam (or smaller) Schedule 40 solid core or cellular core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.

B. **Rigid Nonmetallic Conduit++** - Nom 3 in. (76 mm) diam (or smaller) Schedule 40 PVC conduit installed in accordance with Article 347 of the National Electrical Code (NFPA No. 70).

C. **Chlorinated Polyvinyl Chloride (CPVC) Pipe** - Nom 3 in. (76 mm) diam (or smaller) SDR13.5 CPVC pipe for use in closed (process or supply) piping systems.

D. **Acrylonitrile Butadiene Styrene (ABS) Pipe** - Nom 3 in. (76 mm) diam (or smaller) Schedule 40 solid core or cellular core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.

3. Firestop System - The firestop system shall consist of the following:

A. **Fill, Void or Cavity Materials* - Wrap Strip** - Nom 1/8 in. (3.2 mm) thick intumescent material supplied in 2 in. (51 mm) wide strips. Min three layers of wrap strip tightly wrapped around nonmetallic pipe and completely wrapped with min 3 mil foil tape. Wrap strip to be slid into opening such that the outer edge of wrap strip extends approx 1/2 in. from both surfaces of wall.

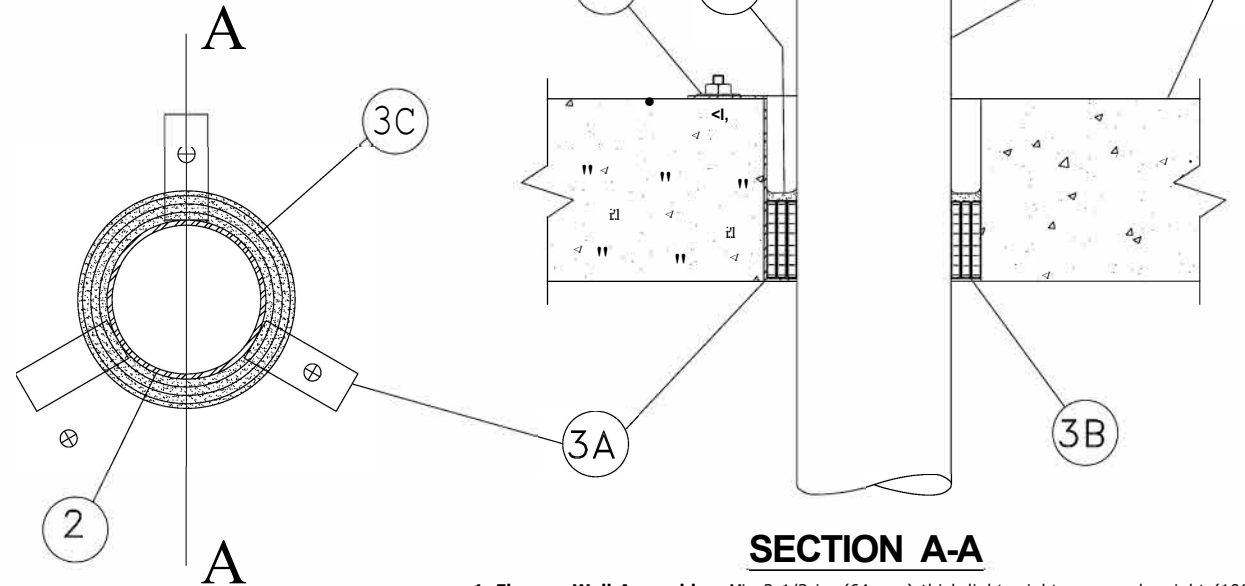
3M Company - Ultra GS

B. **Fill, Void or Cavity Material* - Caulk or Sealant** - Min 5/8 in. (16 mm) thickness of caulk or sealant applied within annulus, flush with both surfaces of wall. Min 1/2 in. (13 mm) diam bead of caulk or sealant applied to concrete/wrap strip interface at point contact location on both sides of wall.

3M COMPANY - D 15WB, CP 25WB+ caulk or FB-3000 WF sealant

*Bearing the UL Classification Marking

System No. C-AJ-2002
 August 23, 2004
 (Formerly System No. 64-B)
 F Rating - 2 Hr
 T Ratings - 0 and 2 Hr
 L Rating at Ambient - 7 CFM/sq ft
 L Rating at 400 F - less than 1 CFM/sq ft (See Item 3C)
 W Rating - Class I (See Item 3)



SECTION A-A

1. Floor or Wall Assembly - Min 2-1/2 in. (64 mm) thick lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max diam of circular opening is 6-1/2 in. (165 mm).

See **Concrete Blocks** (CAZT) category in the Fire Resistance Directory for names of manufacturers.

2. Nonmetallic Pipe or Conduit - Nom 4 in. (102 mm) diam (or smaller) Schedule 40 solid core or cellular core, polyvinyl chloride (PVC) pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems or **Rigid Nonmetallic Conduit++** or SDR 13.5 chlorinated polyvinyl chloride (CPVC) pipe for use in closed (process or supply) piping systems. A max of one pipe or conduit is permitted in the firestop system. Except as noted in Item B, the pipe or conduit shall be centered in the through opening. Pipe or conduit to be rigidly supported on both sides of floor or wall assembly. See **Rigid Nonmetallic Conduit** (DZKT) category in the UL Electrical Construction Materials Directory for names of manufacturers.

3. Firestop System - The hourly T Ratings for the firestop system are dependent upon the firestop orientation (wall or floor), the size of the nonmetallic pipe or conduit, and the floor thickness, as tabulated below:

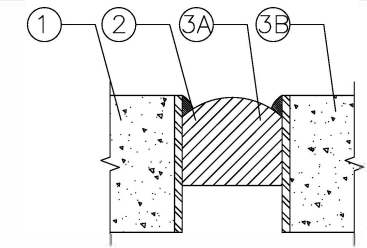
Orientation (a)	Nom Pipe Diam (mm)	Annular Space (mm)	F Rating Hr	T Rating Hr
F (b)	1/2 to 2 (13 to 51)	1/4 to 1 (6 to 25)	2	0
F (b)	2-1/2, 3 (64, 76)	1/2 to 1 (13 to 25)	2	0
W,F	1/2 to 2 (13 to 51)	1/2 to 1 (6 to 25)	2	2
W,F	2-1/2, 3 (64, 76)	1/2 to 1 (13 to 25)	2	2
W,F	3-1/2, 4 (89, 102)	3/4 to 1 (19 to 25)	2	2

(a) W = wall, F = floor

(b) Min concrete floor thickness is 2-1/2 in. (64 mm).

The details of the firestop system shall be as follows:

A. Steel Support Clips - Nom 1 in. (25 mm) wide by nom 0.019 in. (0.5 mm) thick (28 gauge) galv steel strips field-formed into "Z"-shape with height of z-shape equal to the floor thickness and with width of bottom (as installed) leg of sufficient length to span annular space. Top (as installed) leg of Z shape to be min 2 in. (51 mm) long and may or may not be secured to top surface into "L"-shape with height equal to 2 in. (51 mm) and with bottom (as installed) leg of sufficient length to span annular space. Clips secured to outermost wrap strip layer with steel wire tie prior to insertion in through opening. Min of three steel support clips to be used, symmetrically located, with bottom leg of clips flush with bottom plane of floor. When annular space around nom 1/2 in. to 2 in. (13 mm to 51mm) diam pipe in floor assembly is 1/4 in. to 3/8 in. (6 mm to 10 mm), steel support clips are not required.



- Floor or Wall Assembly - Min 4 - 1/2 in. (144 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete. Wall may also be constructed of any UL Classified **Concrete Blocks***. See **Concrete Blocks** (CAZT) category in the fire Resistance Directory for names of manufacturers.
- Nonmetallic Sleeve - Nom 4 in. diam. (or smaller) Schedule 40 (or heavier) polyvinyl Chloride (STEEL) sleeve cast or grouted into floor or wall assembly, flush with floor or wall surfaces. Sleeve may extend max. 2 in. (51 mm) above top surface of floor or both surfaces of wall. When sleeve extends above top surface of floor or either surface of wall, T Rating is 0Hr.
- Firestop System - The firestop system shall consist of the following:
 - Fill, Void or Cavity Materials* - Plug - Plug sized for the sleeve friction - fitted within the sleeve with edges recessed 1/2 in. (13 mm) from the top surface of the floor or from both surfaces of the wall.
HILTI! CONSTRUCTION CHEMICALS, DIV. OF HILTI! INC-CP 658T Firestop Plug.
 - Fill, Void or Cavity Materials* - Putty - Nom 1/2 in. (13 mm) diam. bead of putty applied around periphery of opening at plug/ sleeve interface.
HILTI! CONSTRUCTION CHEMICALS, DIV. OF HILTI! INC-CP 618T Firestop Putty Stick.

* Bearing the UL Classification Mark.

FIRESTOP PLUG DETAIL

LEGEND

NETWORK DEMARK POINT	B	MICRO-DUCT	—	CORE DRILL	(i)
SPLICE POINT	◆	MICRO-DUCT RISER	●	PENETRATION	●
DISTR. / ACCESS FIBER	●	MOLDING	—	POWER OUTLET	db
DISTR. / ACCESS RISER	●	MOLDING RISER	●	CATV OUTLET	◆
VERACITY EQUIPMENT	■	HAND VAULT	□	CONDUIT RISER	●
IPROVO PEDESTAL	■	FIBER JACK	■	CONDUIT	—
FDH / FDT MODULE COMBO	Ⓜ	NIU PLATE	■	PULL BOX	□

DRAWN & ENGINEERED BY:

FIELD ENGINEER: MICHAEL GIUSTINIANI

DESIGN ENGINEER: CASEY KNIGHT

DESIGN	REV	DESCRIPTION	DATE
DRAWN BY: / INIT		INITIAL ISSUE	11/21/2013
DRAWN BY:			
DRAWN BY:			
DRAWN BY:			

TIMPANOGOS GATEWAY
 1931 N CANYON RD
 PROVO, UT 84604

PROJECT CODE:

TBD

MASTEC TASK#: 1931 NCANRD-E

FIBERHOOD: TBD

BUILDINGS: 4

UNITS: 57

SHEET

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