



Addendum No.: 01

Date Of Addendum: 3/16/2021

CT DAS ● Construction Services ● Office of Legal Affairs, Policy, and Procurement

**BUSINESS SCHOOL INSTRUCTIONAL FACILITY
SOUTHERN CT STATE UNIVERSITY
BI – RS– 337**

Bid Due Date / Time:

March 23, 2021

2:00 PM

Previous Addendums: none

TO: Prospective Bid Proposers:

This Addendum forms part of the “Contract Documents” and modifies or clarifies the original “Contract Documents” for this Project dated 2/19/21. Prospective Bid Proposers **shall** acknowledge receipt of the total number the Addenda issued for this Project on the space provided on Section 00 41 00 Bid Proposal Form.

Failure to acknowledge receipt of the total number the Addenda issued for this Project on the space provided on Section 00 41 00 Bid Proposal may subject Bid Proposers to disqualification.

The following clarifications are applicable to drawings and specifications for the project referenced above.

Item 1:

Concrete Bid Package No. 1.02 in Project Manual Section 00 70 00b:

1. Under B. Project Specific Conditions and Scope Requirements, Place and Finish, delete item 25. Site concrete for Early Release First Summer Work is in Sitework and Utilities Bid Package No. 1.04.

Item 2:

Structural Steel Bid Package No. 1.03 in Project Manual Section 00 70 00b:

1. Under B. Project Specific Conditions and Scope Requirements, delete items 4, 5, 17, & 18. Miscellaneous Metals is in Bid Package No. 2.03 and Glass and metal railings is in Bid Package No. 2.13. Permanent wall rails and guard rails will be furnished by BP 2.03. Temp railings for Stair A and B to be provided by BP 1.03.

Item 3:

Site Work and Utilities Bid Package No. 1.04 in Project Manual Section 00 70 00b:

1. Under B. Project Specific Conditions and Scope Requirements, Site Structures, delete item 4. Permanent site fencing is in Bid Package No. 2.32. This bid package does own temporary construction fence as stated in B. Project Specific Conditions and Scope Requirements, 10.
2. Under B. Project Specific Conditions and Scope Requirements, Site Structures, add item 5. Furnish and install Project sign per Project Manual Section 00 50 00, 3.3, H. Temporary Project Identification Signs. Attached to this Addendum for reference.

Item 4:

B-SKL-01: Add removal of existing crosswalk striping in Farnham Avenue



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Item 5:

B-SKL-02:

- Existing crosswalk signal at Farnham/Wintergreen to be disconnected and “bagged” rather than removed, stored and replaced.
- Existing traffic signs to be removed and replaced EXCLUDING “No Parking” signs
- Pre-construction meeting with City required to review signs

Item 6:

B-SKL-03: Additional chain link fence tree protection

Item 7:

B-SKL-04: Existing gas and water to be capped at valves (Same note about crosswalk signal as B-SKL-02)

Item 8:

B-SKL-05:

- Add callout for Advanced Warning Marking
- RRFB poles moved to opposite side of approach walk

Item 9:

B-SKL-06: Water and Fire Service gate valves moved

Item 10:

B-SKL-07: Electrical Service route revised

Item 11:

B-SKL-08: RRFB poles moved to opposite side of approach walk

Item 12:

Not used.

Item 13:

A-001: add abbreviation - FF Finish Floor

Item 14:

A-010: Correction – West Frontage 213’-4”

Item 15:

03 30 00 Cast-In-Place Concrete: Correction – 1.02 Summary, B3 Replace, “Section 05 40 00,” with “Section 50 40 00.”

Item 16:

Add the following reference drawings to specification section 50 10 00:

Sheets below are by Digital Equipment Corporation (DEC)

Sheet 4 of 15 - Interbuilding Distribution Conduit Layout Second Section (07.01.93)

Sheet 5 of 15 - Interbuilding Distribution Copper Layout Second Section (08.06.96)

Sheet 6 of 15 - Interbuilding Distribution Fiber Layout Second Section (08.02.96)

Sheet 7 of 15 - Interbuilding Distribution Conduit / Manhole Layout Third Section (07.01.93)

Sheet 8 of 15 - Interbuilding Distribution Copper Layout Third Section (07.29.96)

Sheet 9 of 15 - Interbuilding Distribution Fiber Layout Third Section (07.29.96)

Sheet 12 of 15 - Manholes Second Section 1 of 2 (05.23.96)

Sheet 13 of 15 - Manholes Second Section 2 of 2 (05.23.96)



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Date Of Addendum: 3/16/2021

Sheet 14 of 15 - Manholes Third Section 1 of 2 (05.23.96)

Sheet 15 of 15 - Manholes Third Section 2 of 2 (05.22.96)

Sheets below are from Building Integrated Services (BVH)

C6.01A - Site Utilities Plan As-Built (09.05.06)

C6.01B - Site Utilities Plan As-Built (09.05.06)

C6.01C - Site Utilities Plan As-Built (09.05.06)

C6.01D - Site Utilities Plan As-Built (09.05.06)

Item 17:

On drawing E-011, revised PV ductbank routing to avoid tree protection area and revised medium voltage ductbank routing.

Item 18:

Refer to sketch B-SKE-01: reference drawing E-010, revised note to protect existing crosswalk sign in place.

Item 19:

On drawings IT-010, revised scope of IT manhole work and reference notes.

Item 20:

On drawings IT-011, revised scope of IT manhole work and reference notes.

Item 21:

Site Electric Bid Package No. 1.05 in Project Manual Section 00 70 00b

1. Under II. Scope of Work, add Specification Section 28 53 23 Emergency Call Stations.
2. Under A. Trade Specific Conditions and Scope Requirements, delete item 1.
Temporary power and lighting system in new building is in Electrical Bid Package No. 2.29.

Item 22:

For all Bid Packages: Refer to Project Manual Section 00 52 73 – Shawmut's Subcontractor Agreement Form:

1. Subcontractor required to carry fee for Textura Payment Management in their bid. See program information on page 30 of 59.

Item 23:

For all Bid Packages: Refer to Project Manual Section 00 41 00 – Bid Proposal Form

1. Use revised Bid Proposal Form – revision date 3/16/21. All bidders must submit on this revised form. Attached to this Addendum is revised Bid Proposal Form.

Item 24:

Refer to attached RFI log for answers to Bidder's questions #1 to #25.

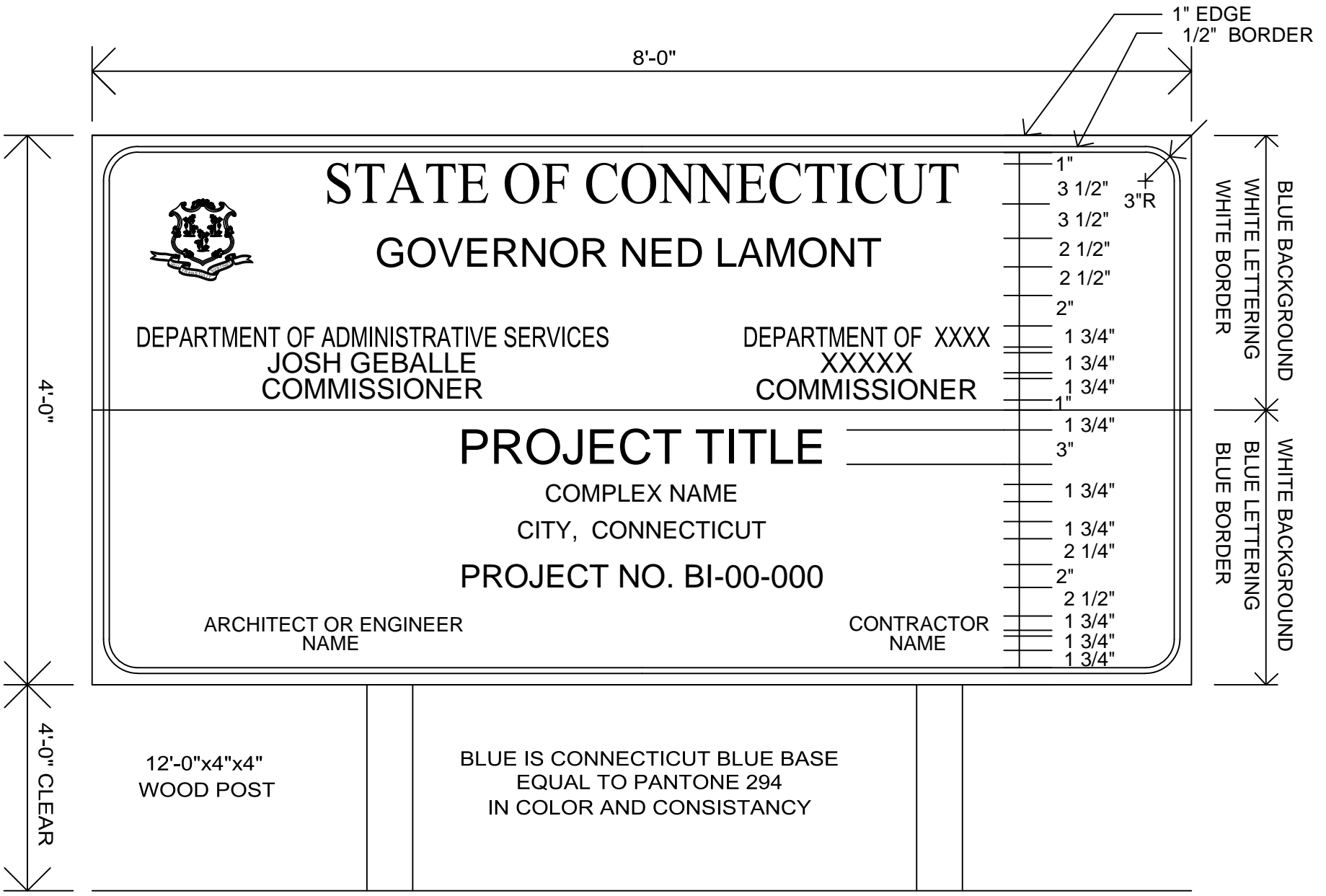
End of Addendum 01

Reference Project Manual 01 50 00; 3.3 H

H. Temporary Project Identification Signs: Prepare project identification and other signs of size indicated. Install signs where indicated to inform the public and persons seeking entrance to the Project. Support on posts or framing of preservative-treated wood or steel. Do not permit installation of unauthorized signs.

1. **Project Sign:** Engage an experienced sign painter to apply graphics. Comply with details to be furnished by the Construction Administrator.
 - a. **Temporary Tripod Frame:** For groundbreaking ceremonies only, provide a temporary tripod for the sign illustrated and described below. Make the tripod of 12 ft long 2" x 4"s (Stud Grade), beveled and bolted at the top. Provide approximately 5-ft between legs at grade. Provide a 6-ft long, 2" x 4" seat for the sign; locate 5-ft above grade and nail in place. Nail sign at four (4) places where edges intersect tripod legs. Drive a 24" long, pointed 2" x 4" stake into the earth next to each leg and nail to legs.
 - b. **Project Sign:** The Contractor shall contact the Construction Administrator for the proper wording for the project sign. Fabricate sign of **3/4"** Exterior Grade A-B Fir plywood. Mount sign on preservative treated Fir posts. The Owner shall provide design, color selection and illustration of the Project Sign. Paint both sides and all edges of sign and the posts with two (2) coats of exterior, white, alkyd primer. Paint the border and letters with "bulletin" (sign) paint. Letter sizes, colors and related information are given on the illustration below. ~~A self-adhesive decal of the State seal will be furnished at the Contract signing.~~ Erect the sign within two (2) weeks after execution of the Contract and remove the sign within one (1) week after completion of the project. *
 - c. **Project Sign Detail:** Sign letter sizes, fonts, colors and related information are shown in the illustration available for download from the DAS website (www.ct.gov/das) > Doing Business With The State > State Building Construction > Publications and Forms > DAS Construction Services Library > 3000 Series - Design Phase Forms.

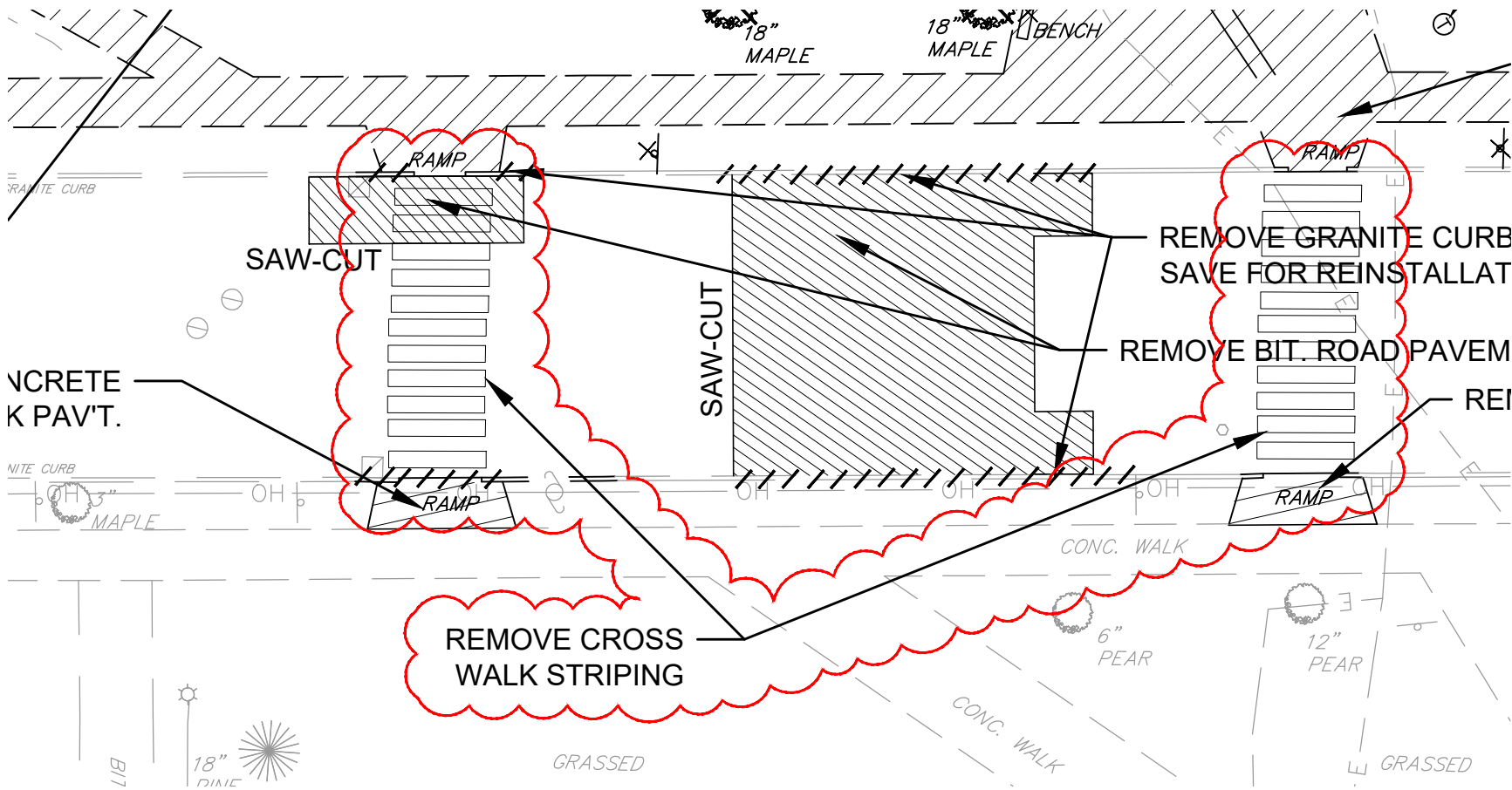
*** Note: State seal produced by the sign company per the detail.**



12'-0"x4"x4"
WOOD POST

BLUE IS CONNECTICUT BLUE BASE
EQUAL TO PANTONE 294
IN COLOR AND CONSISTANCY

SAMPLE PROJECT SIGN



CONCRETE
K PAV'T.

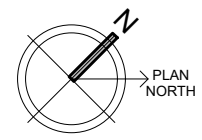
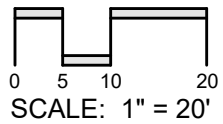
SAW-CUT

SAW-CUT

REMOVE GRANITE CURB
SAVE FOR REINSTALLAT

REMOVE BIT. ROAD PAVEM

REMOVE CROSS
WALK STRIPING



MARCH 16, 2021

B-SKL-01

DRAWING REF: L-101

ADDENDUM 01: REMOVE PAVEMENT MARKINGS

BUSINESS SCHOOL INSTRUCTIONAL FACILITY

BI-RS-337

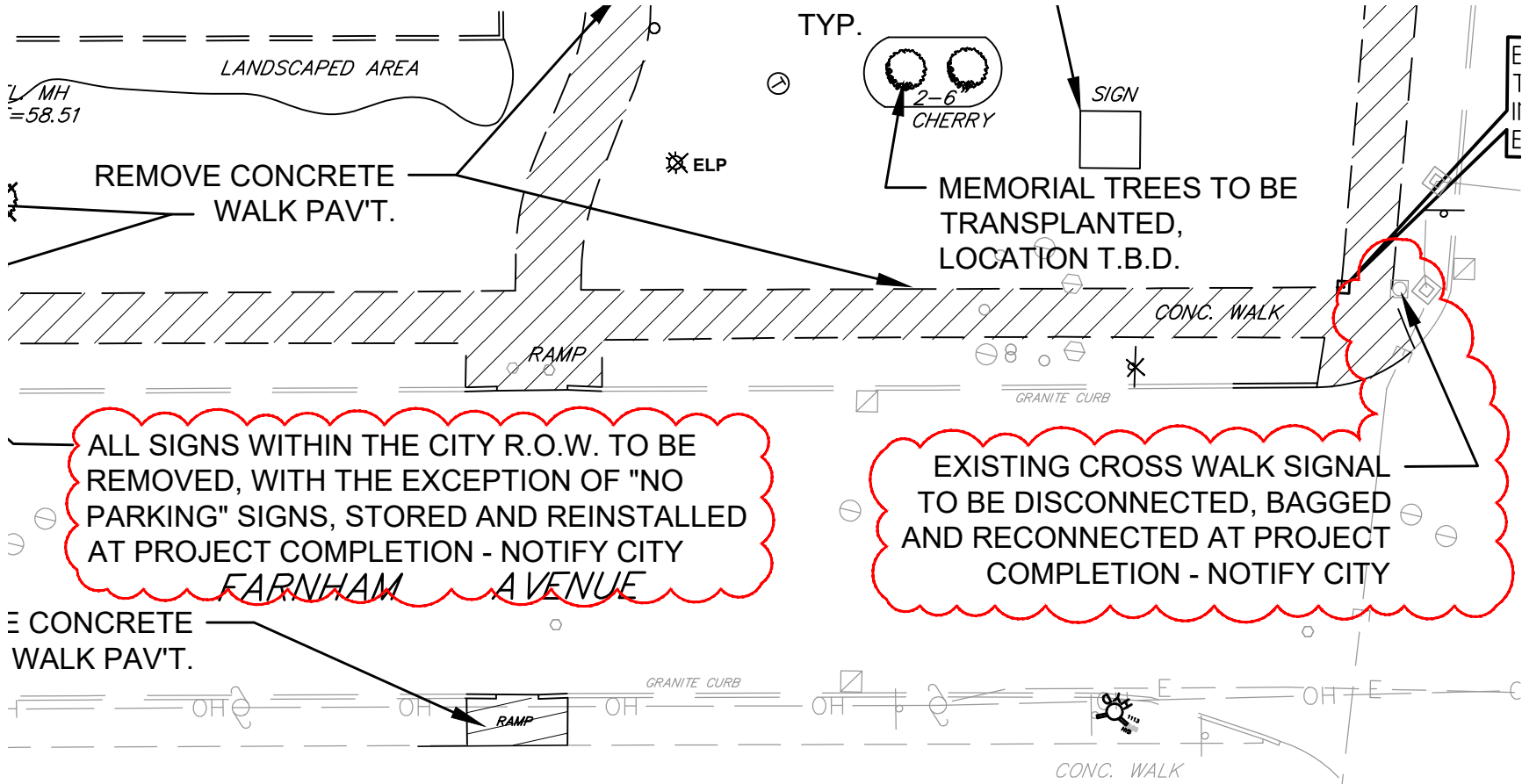
10 WINTERGREEN AVENUE

NEW HAVEN, CT

LINDEN LANDSCAPE
ARCHITECTS LLC

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860-899-9556
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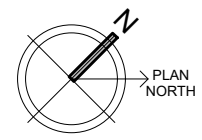
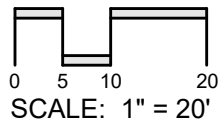


ALL SIGNS WITHIN THE CITY R.O.W. TO BE REMOVED, WITH THE EXCEPTION OF "NO PARKING" SIGNS, STORED AND REINSTALLED AT PROJECT COMPLETION - NOTIFY CITY

FARNHAM AVENUE

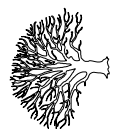
EXISTING CROSS WALK SIGNAL TO BE DISCONNECTED, BAGGED AND RECONNECTED AT PROJECT COMPLETION - NOTIFY CITY

PER CITY TRAFFIC AUTHORITY "NO PARKING" SIGNS ARE TO REMAIN IN PLACE. A PRE-CONSTRUCTION SITE MEETING WITH THE CITY OF NEW HAVEN IS REQUIRED TO REVIEW ALL WORK WITHIN THE CITY R.O.W. PRIOR TO ANY DEMO OR REMOVALS



ADDENDUM 01: EXISTING SIGNS & CROSS WALK SIGNAL
 BUSINESS SCHOOL INSTRUCTIONAL FACILITY
 BI-RS-337
 10 WINTERGREEN AVENUE
 NEW HAVEN, CT

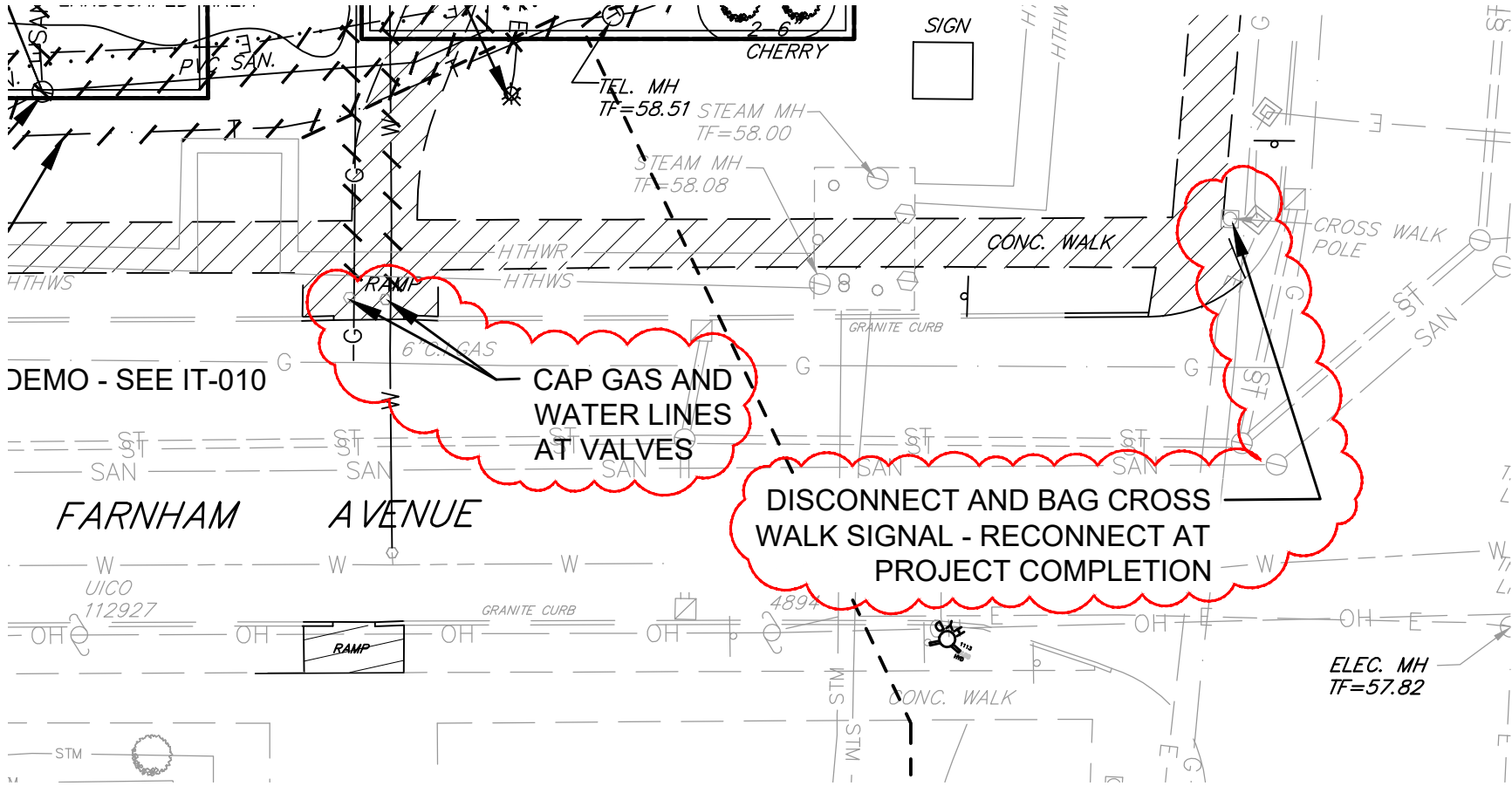
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MARCH 16, 2021

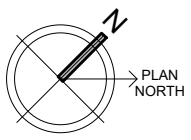
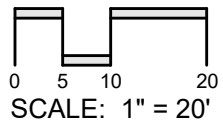
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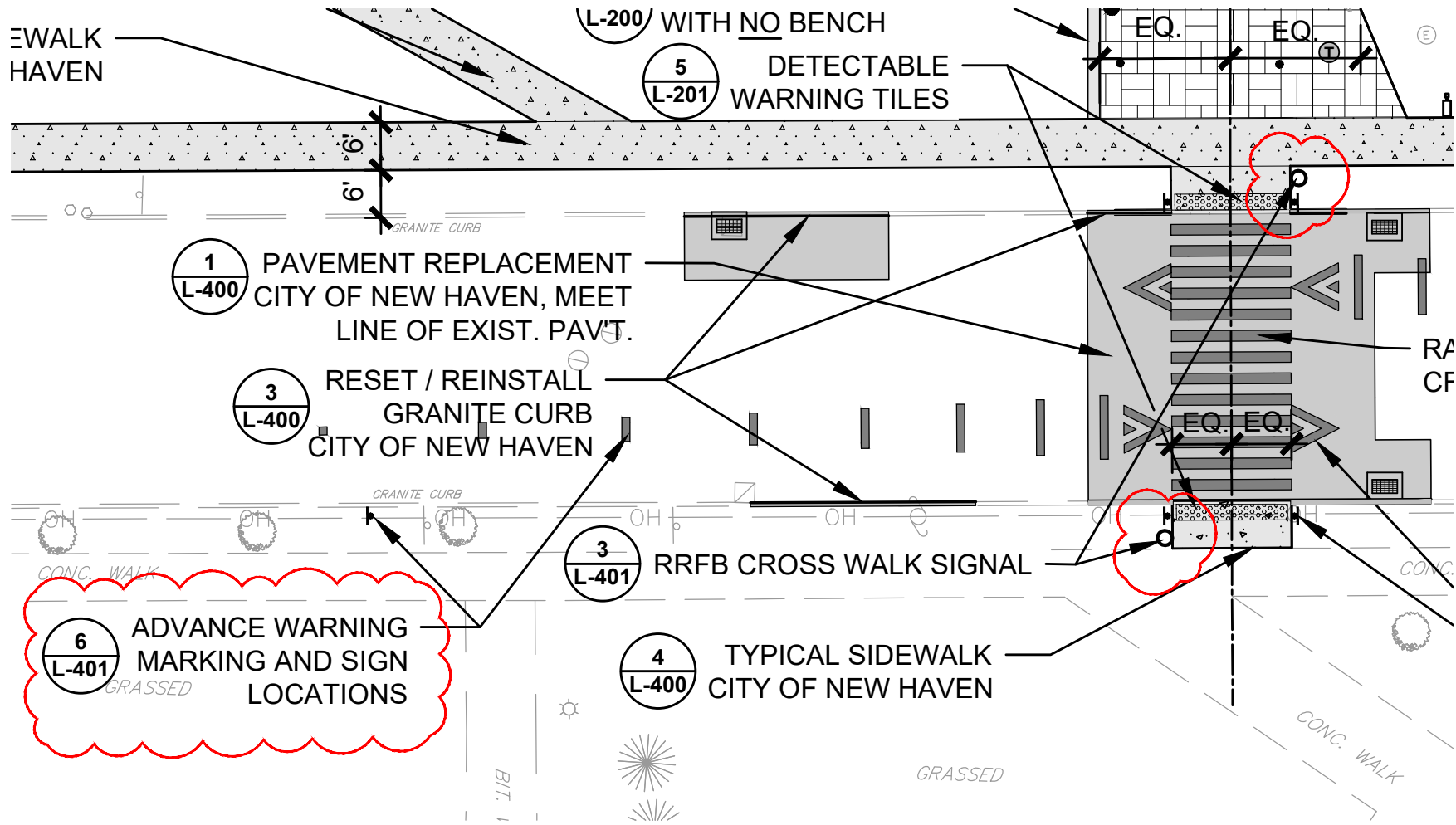
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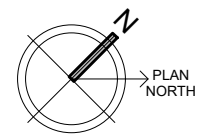
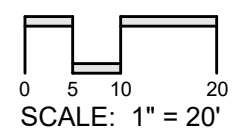
ADDENDUM 01: GATE VALVES & CROSSWALK SIGNAL
 BUSINESS SCHOOL INSTRUCTIONAL FACILITY
 BI-RS-337
 10 WINTERGREEN AVENUE
 NEW HAVEN, CT

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**ADDED CALLOUT FOR "ADVANCED MARKINGS" TO SOUTH SIDE TO MATCH CITY TRAFFIC AUTHORITY APPROVED PLANS
RRFB POLES MOVED TO OPPOSITE SIDE OF PERPENDICULAR SIDEWALK APPROACH**



ADDENDUM 01: RAISED CROSS WALK
 BUSINESS SCHOOL INSTRUCTIONAL FACILITY
 BI-RS-337
 10 WINTERGREEN AVENUE
 NEW HAVEN, CT

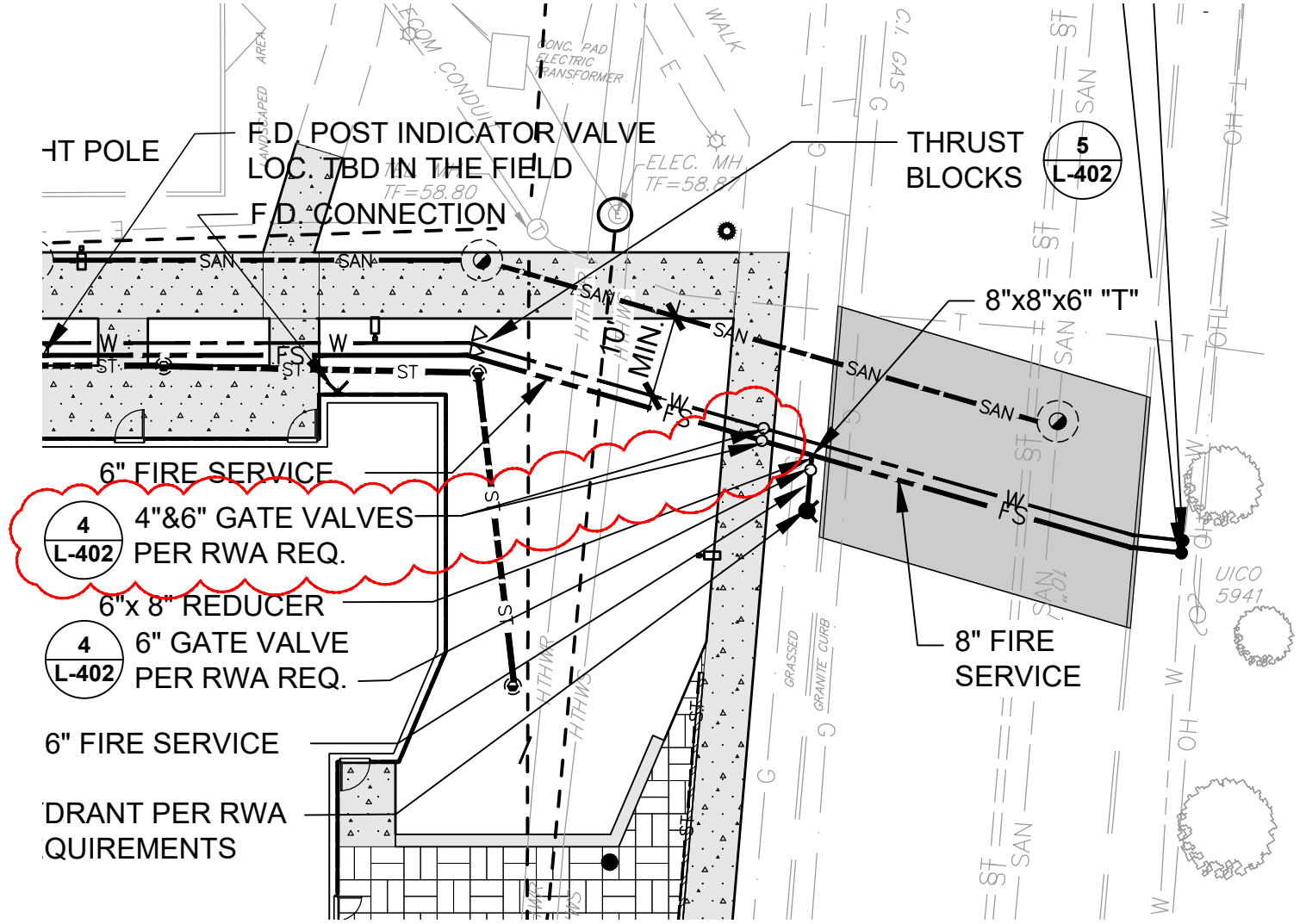
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MARCH 16, 2021

B-SKL-06

DRAWING REF: L-106



**GATE VALVE LOCATION CHANGE
FOR DOMESTIC AND FIRE SERVICE**

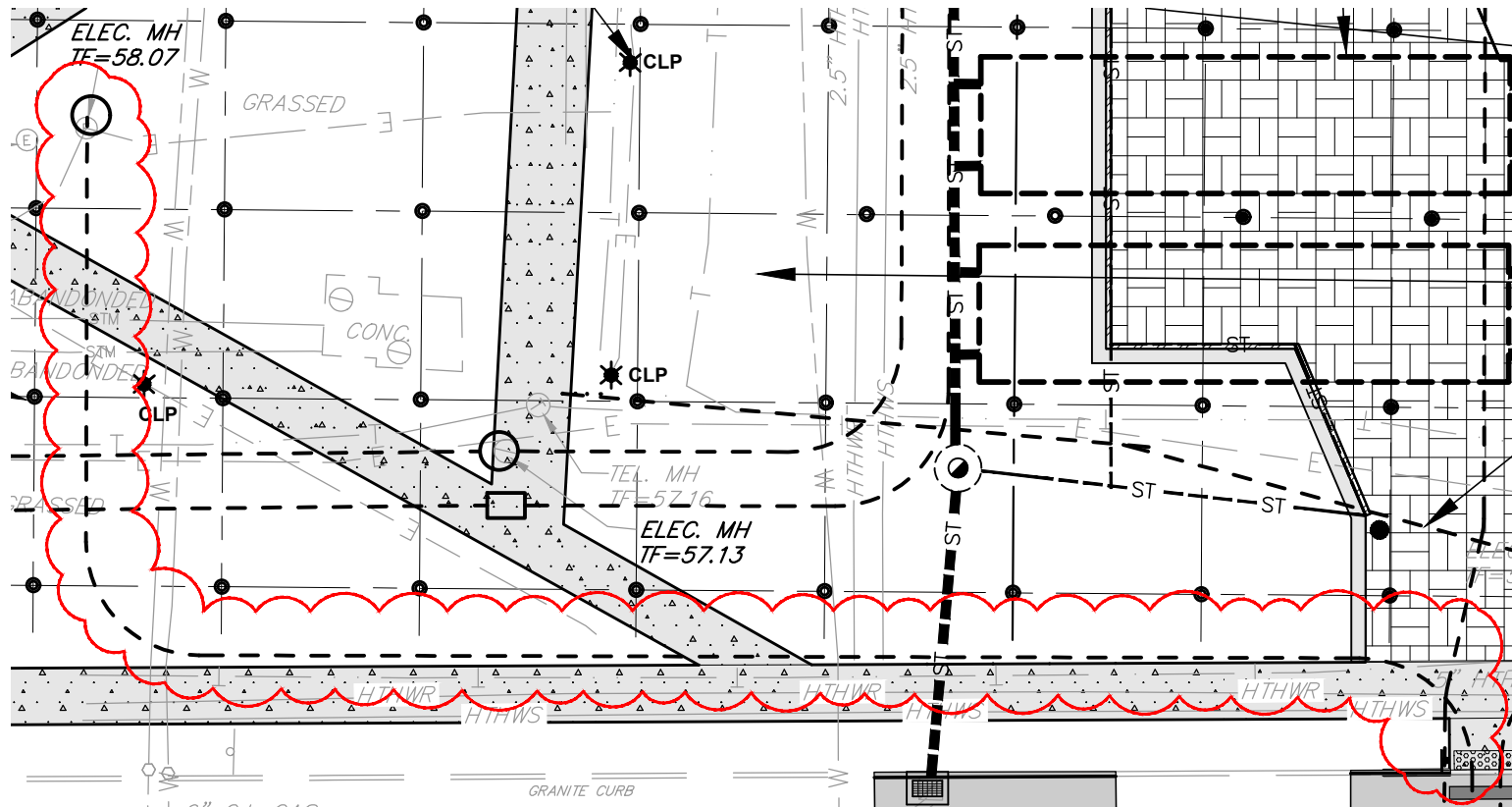
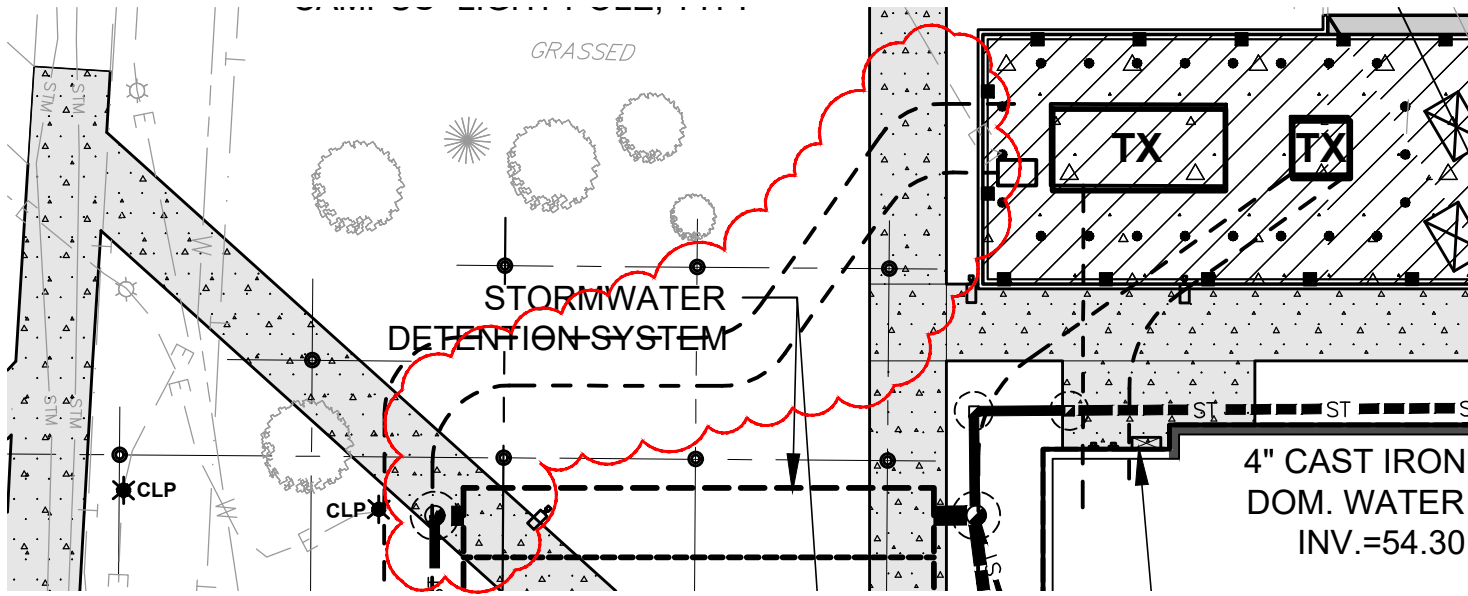
ADDENDUM 01: GATE VALVE LOCATION

BUSINESS SCHOOL INSTRUCTIONAL FACILITY
 BI-RS-337
 10 WINTERGREEN AVENUE
 NEW HAVEN, CT

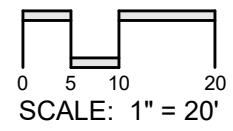
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ELECTRICAL SERVICE ROUTE CHANGED TO AVOID LARGE TREES SEE E-011



ELECTRICAL SERVICE ROUTE CHANGE SEE E-011



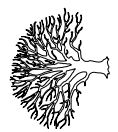
MARCH 16, 2021

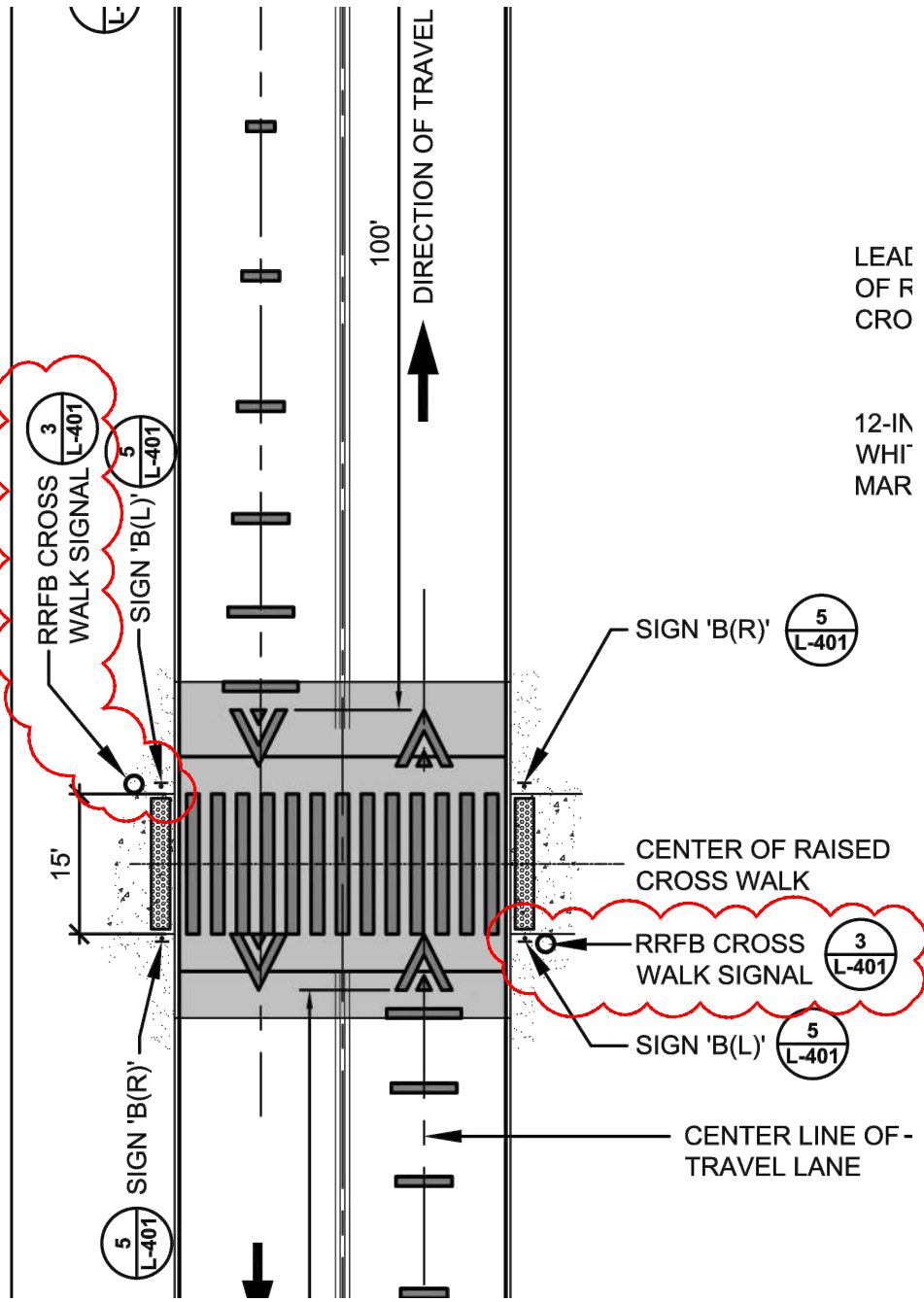
B-SKL-07

DRAWING REF: L-106

APPENDUM 01: ELECTRICAL SERVICE ROUTE
 BUSINESS SCHOOL INSTRUCTIONAL FACILITY
 BI-RS-337
 10 WINTERGREEN AVENUE
 NEW HAVEN, CT

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1. LOCATION OF RRFB REVISED
2. DETAILS 3 AND 5 - ALL CROSS WALK SIGNS TO BE FLUORESCENT YELLOW/GREEN WITH BLACK BORDER AND LETTERING
3. DETAIL 4 ALL CITY TRAFFIC SIGNS REMOVED AND TO BE REINSTALLED SHALL USE THE VLOK POST SYSTEM

ADDENDUM 01: CROSSWALK DETAIL
 BUSINESS SCHOOL INSTRUCTIONAL FACILITY
 BI-RS-337
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Manhole Measurements and New Conduit

MhO (Existing) Distances: 64-->MHO : 151'-8" @ 170° SE 61-->MHO : 177'-0" @ 75° NE	MhN (Existing) Distances: 65-->MHN : 58'-0" @ 90° E	MhS (Existing) Distances: 74-->MHS : 60'-0" @ 250° SW	MhW (Existing) Distances: 87-->MHW : 161'-8" @ 350° NW
MhM (Existing) Distances: 66-->MhM : 109'-0" @ 80° NE 67-->MhM : 145'-0" @ 40° NE	MhT (Existing) Distances: 75-->MhT : 79'-5" @ 0° N	MhY (Existing) Distances: 88-->MhY : 171'-0" @ 60° NE	
	Mh* (Existing) Distances: 86-->Mh* : 95'-0" @ 180° S		
	MhAA (Existing) Distances: 86-->MhAA : 65'-6" @ 120° SE		

1 Fitch MS#6 Warehouse

4" Rigid/EMT/Raceway (N) from PoE to 8' containing Cable O6B1, 50 pr, Pairs 2151-2200 from splice in Schwartz Laundry Room B-9 and Fiber F35-6M from MDF-BA. 1.75" EMT to Fitch MS#2 Warehouse containing station cables

2 Schwartz

4" EMT (N) from Basement hallway through Laundry Room B-9 containing Cable O6B1, 50 pr, Pairs 2151-2200 from Lightning Protection in MDF-BA to splice in Laundry Room B-9 and Fiber F35-6M from LIU in Schwartz MDF-BA to splice in Laundry Room B-9.

3 Lang

4"EMT (N) from PoE in "Old" Basement to MDF-1A

4 Brownell

1-4" Rigid (R) from PoE in Mechanical room 105 through Storage Room 107 to MDF-BA in Room 108 containing Cable O10, 400 pr, Pairs 2901-3300 from splice in MhQ to Cable O8, 1200 pr, Pairs 2901-3300 from Granoff via splice in MhV and Fiber F38-12C:8M/4S from Granoff

5 Farnham

4"EMT (N) from Electrical Room 102 via existing chases and 2-4" EMT (N) through Laundry Room #226 to MDF-2A containing Interior Cable O8A, 200 pr, Pairs 2301-2500 from Lightning Protection in Electrical Room 102 to MDF-2A; Interior Cable O8A1, 300 pr, Pairs 2501-2800 from Lightning Protection in Electrical Room 102 to MDF-2A, Interior Fiber F41-12C:8M/4S spliced to Fiber F41-12C:8M/4S in Electrical Room 102

6 Wilkinson

2-4"EMT (R) from Basement Room B-5 through existing chases and 2-4" EMT (N) through Utility Room to MDF-2A containing Cable O12, 200 pr, Pairs 3501-3700 from Granoff to MDF-2A; Cable O12A, 300 pr, Pairs 3701-4000 from Granoff to MDF-2A, Fiber F42-12C:8M/4S from Granoff

7 Chase

3-2.5"EMT (R) from Electrical Room 6 through Lounge area under slab to pull box and existing conduits and 2-4" EMT(N) through Utility Room #221 to MDF-2A containing: Interior Cable O13, 200 pr, Pairs 4001-4200 from Lightning Protection in Electrical Room 6 to MDF-2A; Interior Cable O13A, 300 pr, Pairs 4201-4500 from Lightning Protection in Electrical Room 6 to MDF-2A; Fiber F43-12C:8M/4S from Granoff

8 Neff

Existing conduits from Basement Men's room through existing chase to MDF-2A containing: Interior Cable O15, 400 pr, Pairs 5001-5400 from Lightning Protection in Electrical Room to MDF-2A, Interior Fiber F44-12C:8M/4S spliced to F44-12C:8M/4S from Granoff in Electrical Room.

9 Hickerson

3-2.5"EMT (R) from Electrical Room 6 through Lounge area under slab to pull box and existing conduits and 2-4" EMT(N) through Utility Room #221 to MDF-2A containing: Interior Cable O14, 100 pr, Pairs 4501-4600 from Lightning Protection in Electrical Room 6 to MDF-2A; Interior Cable O14A, 400 pr, Pairs 4601-5000 from Lightning Protection in Electrical Room 6 to MDF-2A Fiber F45-12C:8M/4S from Granoff

10 Granoff

4-4"EMT (N) from Telecommunications Room to Storage Room B1 containing: Cable 12, 200 pr, Pairs 3501-3700 from Granoff to Wilkinson Cable O12A, 300 pr, Pairs 3701-4000 from Granoff to Wilkinson Cable 13, 200 pr, Pairs 4001-4200 from Granoff to Chase Cable O13A, 300 pr, Pairs 4201-4500 from Granoff to Chase Cable O6, 900 pr, Pairs 1301-1900 from Granoff to splice in MhP, Cable O8-1, 600 pr, Pairs 2301-2900 from Granoff to splice in MhQ, via splice in MhV Cable O8-2, 600 pr, Pairs 2901-3500 from Granoff to splice in MhQ, via splice in MhV Cable O14, 200 pr, Pairs 4501-4700 from Granoff to Hickerson Cable O14A, 300 pr, Pairs 4701-5000 from Granoff to Hickerson Cable O15, 400 pr, Pairs 5001-5400 from Granoff to Neff; 1-3"EMT (N) from Tel. Elec. Room B5 to Women's Locker Room B2 to Generator 1-4" Rigid (R) from Telecommunications Room via Tel.Elec.Room B5 containing Fibers: F45-12C:8M/4S from Granoff to Hickerson F43-12C:8M/4S from Granoff to Chase F44-12C:8M/4S from Granoff to Neff F31-12C:8M/4S from Granoff to Moore F32-12C:8M/4S from Granoff to Grandstand F24-36C:24M/12S from Engleman IDF-BB to Granoff F23-12C:8M/4S from Engleman MDF-BA to Granoff F42-12C:8M/4S from Granoff to Wilkinson

Notes:

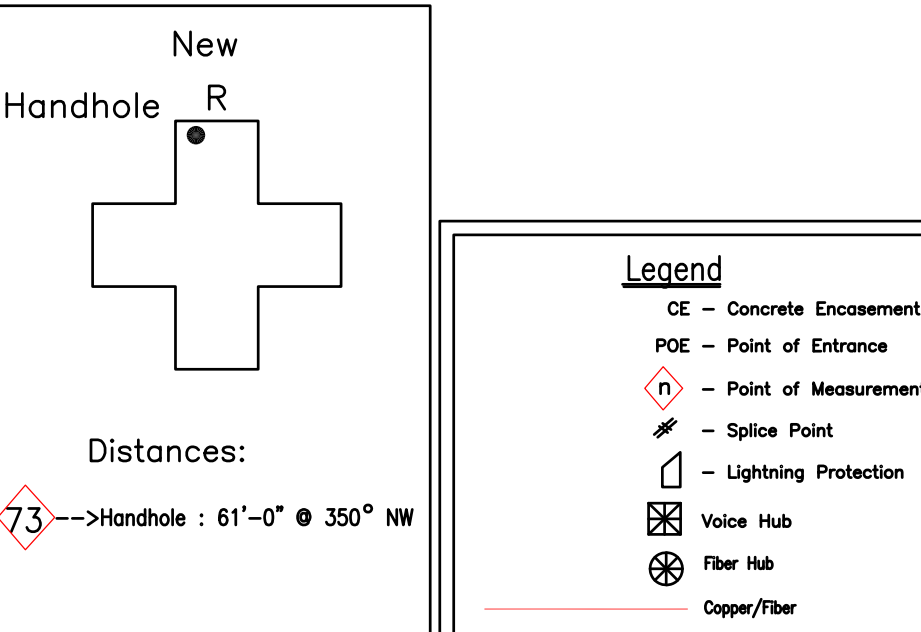
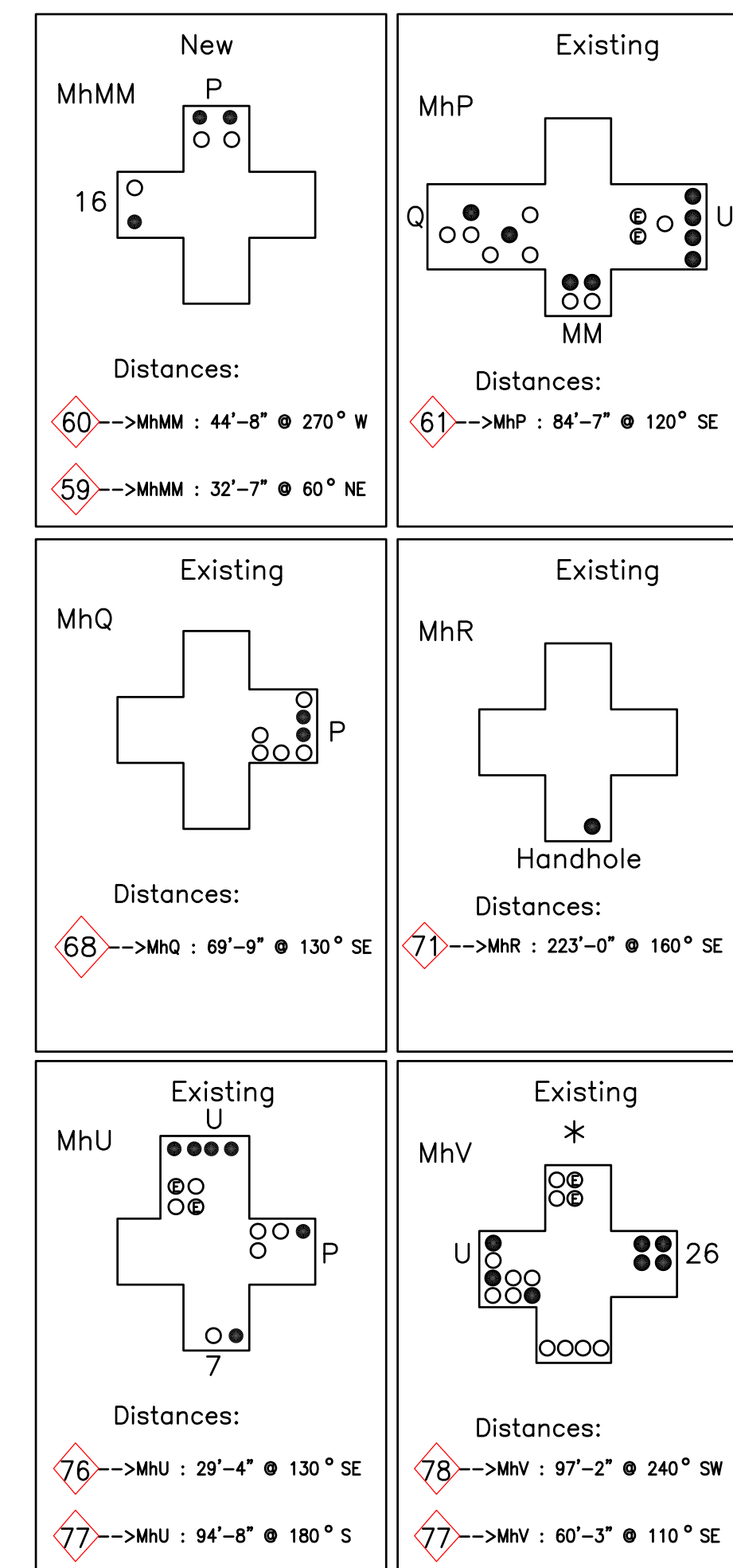
- 53 54 62 Corner of guardhouse(s)
- 55 Bridge abutment
- 72 left side of stonewall at stairs

Route of existing 4-4" Conduit from Granoff Tel. Elec. Room B-5 to MhV is "Unknown"

Schwartz->

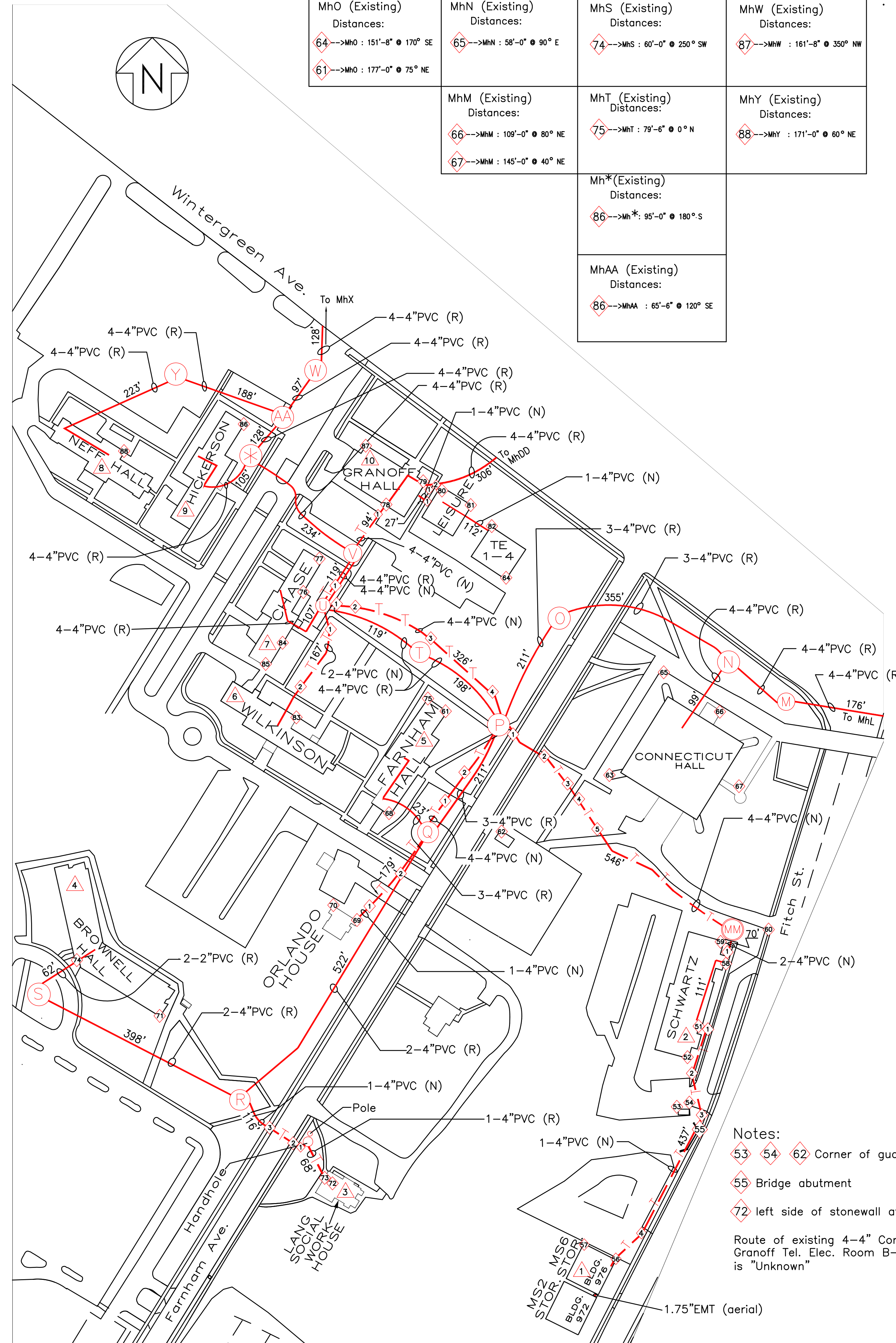
- 1->51: 21'-6" @ 295° NW
- 1->52: 49'-0" @ 230° SW
- 2->53: 44'-7" @ 210° SW
- 2->54: 46'-3" @ 195° SW
- 3->54: 25'-5" @ 355° NW
- 3->55: 13'-8" @ 220° SW
- 4->56: 70'-10" @ 240° SW
- 4->57: 106'-9" @ 270° W
- 1->58: 13'-6" @ 270° W
- 1->MhMM : 66'-9" @ 355° NW
- MhP to MhMM : 4-4" PVC (N) 520'-0"
- 1->MhP: 14'-1" @ 290° NE
- 1->61: 97'-6" @ 300° NW
- 2->62: 93'-9" @ 215° SW
- 2->MhP: 124'-8" @ 310° NW
- 3->62: 125'-7" @ 250° SW
- 3->63: 35'-10" @ 120° SE
- 4->63: 28'-8" @ 35° NE
- 4->62: 135'-2" @ 265° NW
- 5->62: 136'-9" @ 270° W
- 5->63: 46'-0" @ 0° N
- Centerline of conduit is 5' to 10' off curb from crossover at driveway to MhMM
- Centerline of conduit is 15' off curb at entry to MhMM
- MhP
- 1->MhQ: 32'-1" @ 240° SW
- 1->68: 80'-7" @ 290° NW
- 2->MhP: 94'-11" @ 35° NE
- 2->MhQ: 118'-9" @ 225° SW
- MhQ
- 1->69: 16'-0" @ 220° SW
- 1->70: 40'-5" @ 285° NW
- 2->69: 105'-2" @ 240° SW
- 2->68: 97'-10" @ 0° N
- MhR->
- 1->Handhole: 9'-4" @ 110° SE
- 1->72: 61'-3" @ 170° SE
- 2(Lang side of sidewalk)->Handhole:19'-6"@120° SE
- 2(Lang side of sidewalk)->72:68'-8" @ 150° SE
- 3->MhR: 27'-8" @ 350° NW
- 3->Handhole: 84'-5" @ 130° SE
- MhU->MhP : 4-4" PVC (N) 367'-0"
- 1->MhU : 17'-11" @ 270° SW
- 1->MhT : 144'-11" @ 120° SE
- 2->MhU : 44'-6" @ 275° SW
- 2->MhT : 120'-8" @ 240° SE
- 3->75 : 82'-4" @ 180° S
- 4->MhP : 23'-0" @ 190° SW
- 4->61 : 78'-1" @ 280° NW
- MhU->
- 1->MhV : 64'-7" @ 45° NE
- 1->MhU : 56'-0" @ 220° SW
- MhV->
- 1->MhV : 71'-1" @ 230° SW
- 1->78 : 25'-0" @ 10° NE
- 1->79 : 24'-5" @ 5° NE
- 1->80: 30'-0" @ 75° NE
- Dept. of Recreation
- Granoff
- 1->79 : 20'-11" @ 30° NE
- 1->80: 34'-10" @ 85° NE
- 2->79: 26'-6" @ 270° W
- 2->80: 10'-0" @ 90° S
- 1->MhU : 57'-3" @ 5° NE
- 1->84: 62'-0" @ 310° NW
- 2->85 : 58'-6" @ 310° W
- 2->83: 50'-1" @ 185° SE

Manhole Measurements and New Conduit



Legend
 CE - Concrete Enclosure
 POE - Point of Entrance
 n - Point of Measurement
 - - Splice Point
 - - Lightning Protection
 Voice Hub
 Fiber Hub
 Copper/Fiber
 - - - - - New PVC Conduit
 Existing Manhole
 New Manhole
 Conduit run in Tunnel
 Conduit Encased in Concrete
 Depth of new conduits (N) - 24"

Note:
 In the Manhole Measurements and New Conduit Butterflies, numbers indicate buildings, letters indicate manholes
 All Fiber and Copper is exterior type unless otherwise noted.



Issued for Construction	07-01-93	Record Drawing	07-01-93
DATE	3/31/93		
W.M.			
DATE	3/31/93		
DESIGNED BY			
DATE			
APPROVED BY			
DATE			
SOUTHERN CONNECTICUT STATE UNIVERSITY Digital Network Integration Services Digital Equipment Corporation			
SOUTHERN CAMPUS Interbuilding Distribution Conduit Layout Second Section			
PROJECT NUMBER	39154	DRAWING NO.	SCON2
		SCALE	N/A
		DRAWN BY	C.VOWGS
		CHECKED BY	
		DATE	

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Inter Building Copper

- 1 Cable 018, 300pr, Pairs 5901-6200 from Lightning Protection in IDF-BB in Engleman to Splice in MhP (N)
- 2 Cable 07A, 50pr, Pairs 2201-2250 spliced to Cable 07, 100pr, Pairs 2201-2250 from Granoff in MhO to Connecticut Hall (N)
Cable 07B, 50pr, Pairs 2251-2300 spliced to Cable 07, 100pr, Pairs 2251-2300 from Granoff in MhO to Connecticut Hall (N)
- 3 Cable 018 Pairs 5901-6200 from Lightning Protection in IDF-BB in Engleman to Splice in MhP (N)
Cable 07A, 50pr, Pairs 2201-2250 from splice in MhO to Connecticut Hall (N)
Cable 07B, 50pr, Pairs 2251-2300 from splice in MhO to Connecticut Hall (N)
- 3A Cable 018 Pairs 5901-6200 from Lightning Protection in IDF-BB in Engleman to Splice in MhP (N)
Cable 07, 100pr, Pairs 2201-2300 from Granoff to splice in MhO (N)
- 4 Cable 06B, 600 pr, Pairs 1601-2200 from Splice in MhP to Schwartz (N)
- 5 Cable 6B1, 50 pr, Pairs 2151-2200 from splice in Laundry Room B-9 in Schwartz to Fitch MS #6 (N)
- 6 Cable 08, 1200 pr, Pairs 2301-3500 from Granoff via splice in MhV to Splice in MhQ (N)
- 7 Cable 08A, 200 pr, Pairs 2301-2500 from splice in MhQ to Lightning Protection in Room 102 in Farnham (N)
Cable 08A1, 300 pr, Pairs 2501-2800 from splice in MhQ to Lightning Protection in Room 102 in Farnham (N)
- 8 Cable 09, 100 pr, Pairs 2801-2900 from MhQ to Orlando (N)
- 9 Cable 010, 400 pr, Pairs 2901-3300 from splice in MhQ to Brownell (N)
Cable 011, 200 pr, Pairs 3301-3500 from splice in MhQ to Lang (N)
- 10 Cable 010, 400 pr, Pairs 2901-3300 from splice in MhQ to Brownell (N)
- 11 Cable 011, 200 pr, Pairs 3301-3500 from splice in MhQ to Lang (N)
- 12 Cable 08, 1200 pr, Pairs 2301-3500 from Granoff to splice in MhQ via splice in MhV (N)
- 12A Cable 06, 900 pr, Pairs 1301-2200 from Granoff to splice in MhP (N)
Cable 07, 100 pr, Pairs 2201-2300 from Granoff to splice in MhO (N)
- 13 Cable 08, 1200 pr, Pairs 2301-3500 from Granoff to splice in MhQ via splice in MhV (N)
Cable 013, 200 pr, Pairs 4001-4200 from Granoff to Lightning Protection in Room 6 in Chase (N)
Cable 013A, 300 pr, Pairs 4201-4500 from Granoff to Lightning Protection in Room 6 in Chase (N)
Cable 012, 200 pr, Pairs 3501-3700 from Granoff to Wilkinson (N)
Cable 012A, 300 pr, Pairs 3701-4000 from Granoff to Wilkinson (N)
Cable 06, 900 pr, Pairs 1301-2200 from Granoff to splice in MhP (N)
Cable 07, 100 pr, Pairs 2201-2300 from Granoff to splice in MhO (N)
- 14 Cable 013, 200 pr, Pairs 4001-4200 from Granoff to Lightning Protection in Room 6 in Chase (N)
Cable 013A, 300 pr, Pairs 4201-4500 from Granoff to Lightning Protection in Room 6 in Chase (N)
- 15 Cable 012, 200 pr, Pairs 3501-3700 from Granoff to Wilkinson (N)
Cable 012A, 300 pr, Pairs 3701-4000 from Granoff to Wilkinson (N)
- 16 Cable 014, 200 pr, Pairs 4501-4700 from Granoff to Lightning Protection in Electrical Room 6 in Hickerson (N)
Cable 014A, 300 pr, Pairs 4701-5000 from Granoff to Lightning Protection in Electrical Room 6 in Hickerson (N)
Cable 015, 400 pr, Pairs 5001-5400 from Granoff to Lightning Protection in Electrical Room 6 in Neff (N)
Cable 016, 400 pr, Pairs 5401-5800 from Granoff to Moore Field House (N)
- 17 Cable 014, 200 pr, Pairs 4501-4700 from Granoff to Lightning Protection in Electrical Room 6 in Hickerson (N)
Cable 014A, 300 pr, Pairs 4701-5000 from Granoff to Lightning Protection in Electrical Room 6 in Hickerson (N)
- 18 Cable 015, 400 pr, Pairs 5001-5400 from Granoff to Lightning Protection in Electrical Room in Neff (N)
Cable 016, 400 pr, Pairs 5401-5800 from Granoff to Moore Field House (N)
- 19 Cable 015, 400 pr, Pairs 5001-5400 from Granoff to Lightning Protection in Electrical Room in Neff (N)
- 20 Cable 016, 400 pr, Pairs 5401-5800 from Granoff to Moore Field House (N)
- 23 Cable 08-1, 600pr, Pairs 2301-2900 from Granoff to splice in MhV to splice in MhQ (N)
Cable 08-2, 600pr, Pairs 2901-3500 from Granoff to splice in MhV to splice in MhQ (N)
Cable 06, 900 pr, Pairs 1301-2200 from Granoff to splice in MhP (N)
Cable 012, 200 pr, Pairs 3501-3700 from Granoff to Wilkinson (N)
Cable 012A, 300 pr, Pairs 3701-4000 from Granoff to Wilkinson (N)
Cable 013, 300 pr, Pairs 4001-4200 from Granoff to Lightning Protection in room 6 in Chase (N)
Cable 013A, 300 pr, Pairs 4201-4500 from Granoff to Lightning Protection in room 6 in Chase (N)
Cable 014, 200 pr, Pairs 4501-4700 from Granoff to Lightning Protection in Electrical Room 6 in Hickerson (N)
Cable 014A, 300 pr, Pairs 4701-5000 from Granoff to Lightning Protection in Electrical Room 6 in Hickerson (N)
Cable 015, 400 pr, Pairs 5001-5400 from Granoff to Lightning Protection in Electrical Room in Neff (N)
Cable 016, 400 pr, Pairs 5401-5800 from Granoff to Moore Field House (N)
Cable 07, 100 pr, Pairs 2201-2300 from Granoff to splice in MhO (N)
- 24 Cable 05, 100 pr, Pairs 1201-1300 from Granoff to Department of Rec. and Leisure (N)
Cable 017, 25 pr, Pairs 5801-5825 from Granoff to Temporary Classroom (N)
- 25 Cable 017, 25 pr, Pairs 5801-5825 from Granoff to Temporary Classroom (N)
(attached to flooring underneath Dept.of Rec.& Leisure)
- 26 Cable 01, Pairs 001-1200 from Granoff to Splice in MhF via splice in MhEE (N)
Exterior Cable 900 pr, Pairs 6100-7000 from Granoff to Swing Bldg.

Splice in MhP

- Cable 06, 900 Pair, Pairs 1301-1600, to Granoff, Spliced to Cable 018, 300 pr, Pairs 5901-6200 from Engleman MDF-BA (N)
- Cable 06, 900 Pair, Pairs 1601-2200 from Granoff, Spliced to Cable 06A, 600 pr, Pairs 2150-2200 to Schwartz

Splice in MhQ

- Cable 08, 1200 Pair, Pairs 2301-2500 from splice in MhV Spliced to Cable 08A, 200 pr, Pairs 2301-2500 to Wilkinson (N)
- Cable 08, 1200 Pair, Pairs 2501-2800, from splice in MhV, Spliced to Cable 08A1, 300 pr, Pairs 2501-2800 to Wilkinson (N)
- Cable 08, 1200 Pair, Pairs 2801-2900, from splice in MhV, Spliced to Cable 09, 100 pr, Pairs 2801-2900 to Orlando (N)
- Cable 08, 1200 Pair, Pairs 2901-3300, from splice in MhV, Spliced to Cable 010, 400 pr, Pairs 2901-3300 to Brownell (N)
- Cable 08, 1200 Pair, Pairs 3301-3500, from splice in MhV, Spliced to Cable 011, 200 pr, Pairs 3301-3500 to Lang (N)

Splice in MhV

- Cable 08-1, 600 pr, Pairs 2301-2900 from Granoff spliced to Cable 08, 1200 pr, Pairs 2301-2900 to splice in MhQ (N)
- Cable 08-2, 600 Pair, Pairs 2901-3500, from Granoff spliced to Cable 08, 1200 pr, Pairs 2301-3500 to splice in MhQ (N)

Splice in MhO

- Cable 07, 100 pr, Pairs 2201-2250 from Granoff spliced to Cable 07A, 50 pr, Pairs 2201-2250
- Cable 07A, 100 Pair, Pairs 2251-2300 from Granoff spliced to Cable 07B, 50 pr, Pairs 2251-2300

Intra Building Copper

- 1 Interior Cable 06B1, 50 pr, Pairs 2151-2200 from Lightning Protection in MDF-BA to Splice in Laundry Room B-9 in Schwartz (N)
Interior Cable 06A, 300 pr, Pairs 001-300 from MDF-BA to IDF-6A
- 2 Interior Cable 08A, 200 pr, Pairs 2301-2500 from Lightning Protection in Room 102 to MDF-2A (N)
Interior Cable 08A1, 300 pr, Pairs 2501-2800 from Lightning Protection in Room 102 to MDF-2A (N)
Interior Cable 5A, 200 pr, Pairs 001-200 from MDF-2A to IDF-5A (N)
Interior Cable 5A1, 200 pr, Pairs 201-400 from MDF-2A to IDF-5A (N)
- 3 Interior Cable 5A, 400 pr, Pairs 001-400 from MDF-BA to IDF-5A in Wilkinson (N).
- 4 Interior Cable 13A1, 200 pr, Pairs 4001-4200 from Lightning Protection in Room 6 in Chase to MDF-2A (N).
Interior Cable 13A2, 300 pr, Pairs 4201-4500 from Lightning Protection in Room 6 in Chase to MDF-2A (N).
Interior Cable 5A1, 200 pr, Pairs 001-200 from MDF-2A to IDF-5A in Chase (N).
Interior Cable 5A2, 200 pr, Pairs 201-400 from MDF-2A to IDF-5A in Chase (N).
- 5 Interior Cable 14A, 400 pr, Pairs 4501-4900 from Lightning Protection in Electrical Room in Hickerson to MDF-2A (N).
Interior Cable 14A1, 100 pr, Pairs 4901-5000 from Lightning Protection in Electrical Room in Hickerson to MDF-2A (N).
Interior Cable 5A, 200 pr, Pairs 001-200 from MDF-2A to IDF-5A in Hickerson (N).
Interior Cable 5A1, 200 pr, Pairs 201-400 from MDF-2A to IDF-5A in Hickerson (N).
- 6 Interior Cable 015, 400 pr, Pairs 5001-5400 from Lightning Protection in Electrical Room in Neff to MDF-2A (N).
Interior Cable 4A, 300 pr, Pairs 001-300 from MDF-2A to IDF-4A.
- 7 Interior Cable 3A, 400 pr, Pairs 001-400 from MDF-BA to IDF-3A.

Legend

- CE - Concrete Encasement
- POE - Point of Entrance
- Point of Measurement
- Splice Point
- Lightning Protection
- Voice Hub
- Fiber Hub
- Copper/Fiber
- New PVC Conduits
- Existing Manholes
- New Manhole
- Conduit run in Tunnel
- Conduit Encased in Concrete

Depth of new conduits (N) - 24"

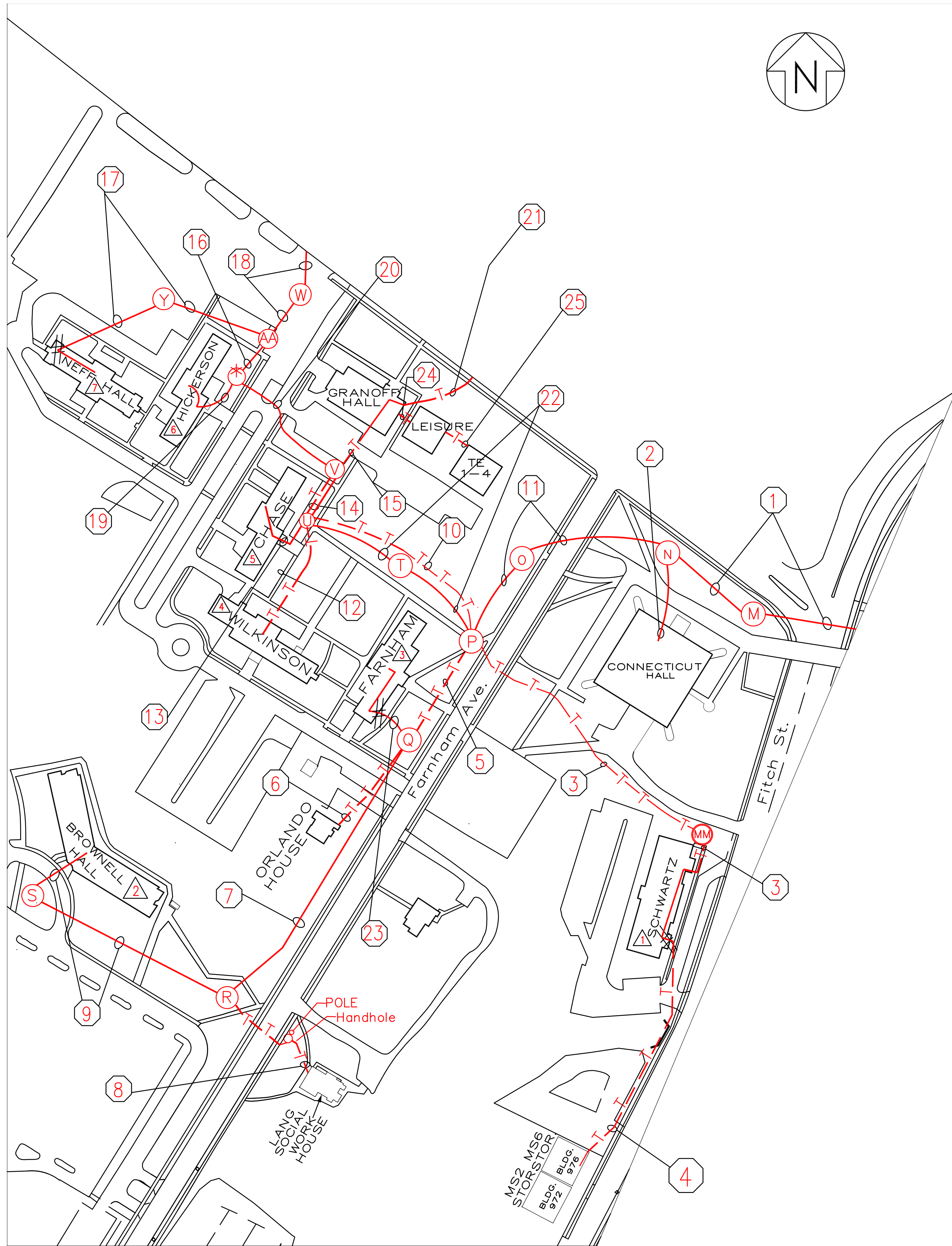
Note:
In the Manhole Measurements and New Conduit Butterflies, numbers indicate buildings, letters indicate manholes
All cables are exterior type unless otherwise noted

8/8/96	Reviewed	LR
Date	Description	Appr. by
	Revisions	

Issued for Construction	07-01-93	Record Drawing	07-01-93
Drawn by	Wm 3/31/93	SOUTHERN CONNECTICUT STATE UNIVERSITY	
Checked by	LR 3/13/93	digital Network Integration Services	
Approved by	DATE	Digital Equipment Corporation	
Approved by	DATE	SOUTHERN CAMPUS	
Wm 7/13/93		Interbuilding Distribution	
Wm 7/26/93		Copper Layout Second Section	
Wm 9/25/95		PROJECT NUMBER	
Wm 11/14/95		39154	SCALE
Wm 8/6/96		N/A	REVISION
Wm 3/14/97			DATE

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Inter Building Fiber

- 1 Fiber F24-36C:24M/12S from Engleman IDF-BB to Granoff (N)
Fiber F23-12C:8M/4S from Engleman MDF-BA to Granoff (N)
- 2 Fiber F33-12C:8M/4S from Granoff to Connecticut Hall (N)
- 3 Fiber F34-12C:8M/4S from Granoff to Schwartz (N)
- 4 Fiber F35-6M from Schwartz to Fitch Warehouse MS # 6 (N)
- 5 Fiber F37-12C:8M/4S from Granoff to Orlando (N)
Fiber F36-12C:8M/4S from Granoff to Lang (N)
Fiber F38-12C:8M/4S from Granoff to Brownell (N)
Fiber F41-12C:8M/4S from Granoff to Farnham (N)
- 6 Fiber F37-12C:8M/4S Granoff to Orlando (N)
- 7 Fiber F36-12C:8M/4S from Granoff to Lang (N)
Fiber F38-12C:8M/4S from Granoff to Brownell (N)
- 8 Fiber F36-12C:8M/4S from Granoff to Lang (N)
- 9 Fiber F38-12C:8M/4S from Granoff to Brownell (N)
- 10 Fiber F37-12C:8M/4S from Granoff to Orlando (N).
Fiber F36-12C:8M/4S from Granoff to Lang (N).
Fiber F41-12C:8M/4S from Granoff to Farnham (N).
Fiber F34-12C:8M/12S from Granoff to Schwartz (N).
Fiber F23-12C:8M/4S from Engleman to Granoff (N).
Fiber F38-12C:8M/4S from Granoff to Brownell (N).
- 11 Fiber F24-36C:24M/12S from Engleman IDF-BB to Granoff (N).
Fiber F23-12C:8M/4S from Engleman MDF-BA to Granoff (N).
Fiber F33-12C:8M/4S from Granoff to Connecticut Hall (N).
- 12 Fiber F42-12C:8M/4S from Granoff to Wilkinson (N).
- 13 Fiber F43-12C:8M/4S from Granoff to Chase (N).
- 14 Fiber F42-12C:8M/4S from Granoff to Wilkinson (N).
Fiber F43-12C:8M/4S from Granoff to Chase (N).
Fiber F37-12C:8M/4S from Granoff to Orlando (N).
Fiber F36-12C:8M/4S from Granoff to Lang (N).
Fiber F38-12C:8M/4S from Granoff to Brownell (N).
Fiber F41-12C:8M/4S from Granoff to Farnham (N).
Fiber F24-36C:24M/12S from Engleman IDF-BB to Granoff (N).
Fiber F23-12C:8M/4S from Engleman to Granoff (N).
Fiber F23-12C:8M/4S from Engleman to Granoff (N).
Fiber F34-12C:8M/12S from Engleman to Schwartz (N).
Fiber F33-12C:8M/4S from Granoff to Connecticut Hall (N).
Fiber F33-12C:8M/4S from Granoff to Connecticut Hall (N).
- 15 Fiber F42-12C:8M/4S from Granoff to Wilkinson (N).
Fiber F43-12C:8M/4S from Granoff to Chase (N).
Fiber F37-12C:8M/4S from Granoff to Orlando (N).
Fiber F36-12C:8M/4S from Granoff to Lang (N).
Fiber F38-12C:8M/4S from Granoff to Brownell (N).
Fiber F41-12C:8M/4S from Granoff to Farnham (N).
Fiber F24-36C:24M/12S from Engleman IDF-BB to Granoff (N).
Fiber F44-12C:8M/4S from Granoff to Neff (N).
Fiber F45-12C:8M/4S from Granoff to Hickerson (N).
Fiber F31-12C:8M/4S from Granoff to Moore Field House (N).
Fiber F32-12C:8M/4S from Granoff to Grandstand (N).
Fiber F23-12C:8M/4S from Engleman MDF-BA to Granoff (N).
Fiber F33-12C:8M/4S from Granoff to Connecticut Hall (N).
Fiber F34-12C:8M/4S from Granoff to Schwartz (N).
- 16 Fiber F44-12C:8M/4S from Granoff to Neff (N).
Fiber F31-12C:8M/4S from Granoff to Moore Field House (N).
Fiber F32-12C:8M/4S from Granoff to Grandstand (N).
- 17 Fiber F44-12C:8M/4S from Granoff to Neff (N).
- 18 Fiber F31-12C:8M/4S from Granoff to Moore (N).
Fiber F32-12C:8M/4S from Granoff to Grandstand (N).
- 19 Fiber F43-12C:8M/4S from Granoff to Hickerson (N).
- 20 Fiber F44-12C:8M/4S from Granoff to Neff (N).
Fiber F43-12C:8M/4S from Granoff to Hickerson (N).
Fiber F31-12C:8M/4S from Granoff to Moore Field House (N).
Fiber F32-12C:8M/4S from Granoff to Grandstand (N).
- 21 Fiber F26-36C:24M/12S from Granoff to Pine Rock Duplex A (N).
- 22 Fiber F24-36C:24M/12S from Engleman IDF-BB to Granoff (N).
Fiber F23-12C:8M/4S from Engleman MDF-BA to Granoff (N).
- 23 Fiber F41-12C:8M/4S from Granoff to Farnham (N).
- 24 Fiber F39-12C:8M/4S from Granoff to Department of Recreation and Leisure
Fiber F40-12C:8M/4S from Granoff to Temporary Classroom (N)
- 25 Fiber F40-12C:8M/4S from Granoff to Temporary Classroom (N)

Intra Building Fiber

- ▲ Schwartz - Fiber F34-12C:8M/4S from Granoff to Schwartz terminated in MDF-BA (N)
Interior Fiber F35-6M from terminations in MDF-BA spliced to Fiber F35-6M in Laundry Room B-9 to Fitch Warehouse (N)
Interior Fiber 6M from MDF-BA to IDF-6A (N)
- ▲ Brownell - Interior-6M from MDF-BA to IDF-3A (N)
- ▲ Farnham - Fiber F41-12C:8M/4S spliced to Interior Fiber F41-12C:8M/4S in Custodial Room 102 (N)
Fiber F41-12C:8M/4S from splice in Custodial Room 102 to MDF-2A (N)
Interior 6M from MDF-2A to IDF-5A (N)
- ▲ Wilkinson - Interior 6M from MDF-2A to IDF-5A (N)
- ▲ Chase - Interior 6M from MDF-2A to IDF-5A (N)
- ▲ Hickerson - Interior 6M from MDF-2A to IDF-5A (N)
- ▲ Neff - Fiber F44-12C:8M/4S spliced to Fiber F44-12C:8M/4S in Electrical Room (N)
Fiber F44-12C:8M/4S from splice in Electrical Room to MDF-2A (N)
6M from MDF-2A to IDF-4A (N)

Legend

- CE - Concrete Encasement
- POE - Point of Entrance
- ◇ - Point of Measurement
- ⊕ - Splice Point
- ⚡ - Lightning Protection
- ⊠ - Voice Hub
- ⊙ - Fiber Hub
- Copper/Fiber
- New PVC Conduits
- Existing Manhole
- ⊙ New Manhole
- Conduit run in Tunnel
- Conduit Encased in Concrete

Depth of new conduits (N) - 24"

Note:
In the Manhole Measurements and New Conduit Butterflies, numbers indicate buildings, letters indicate manholes
All Fiber is exterior type unless otherwise noted.
Only Multinode Fiber is spliced unless otherwise noted.

8/2/96	Reviewed	LR
Date	Description	Appr. by
	Revisions	

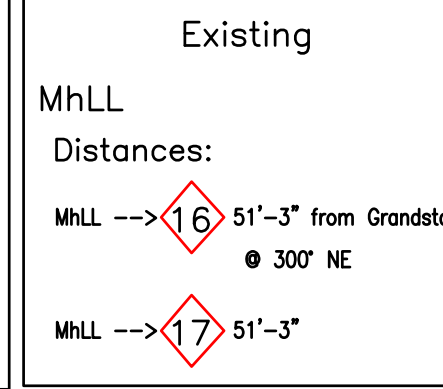
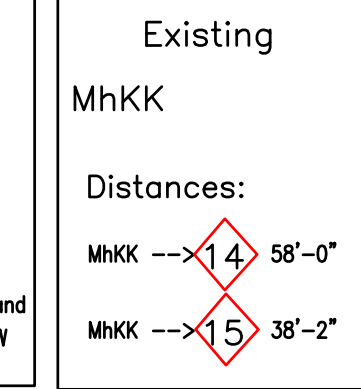
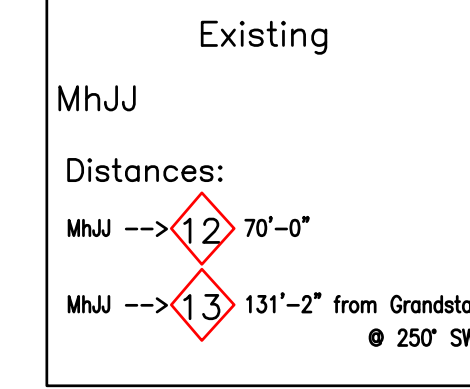
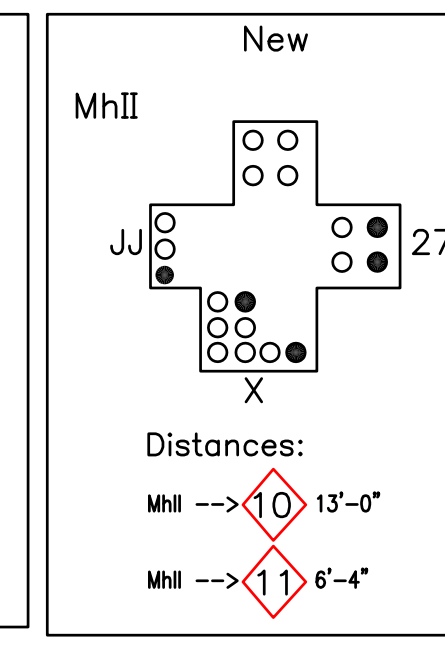
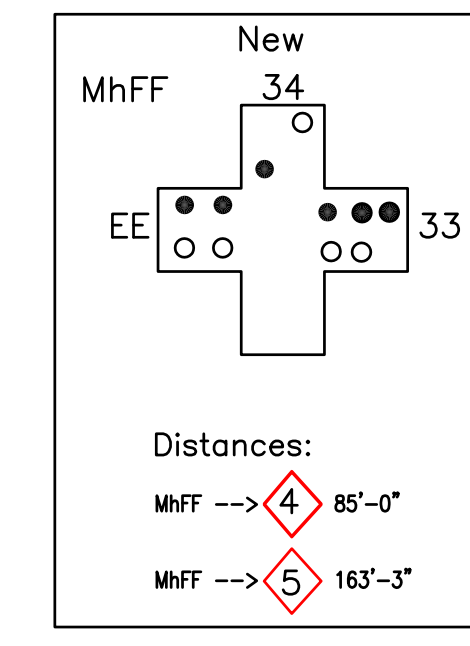
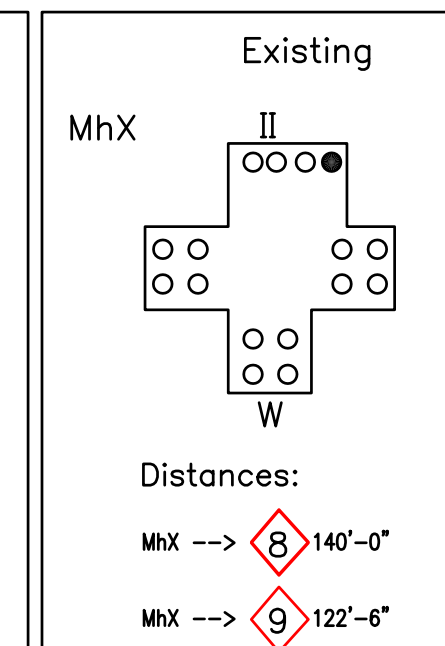
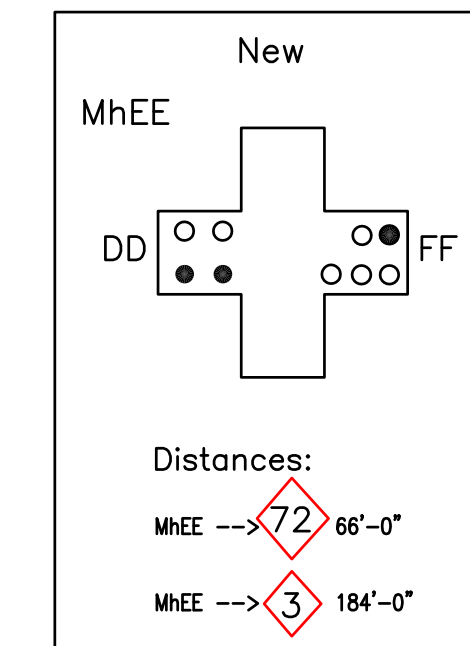
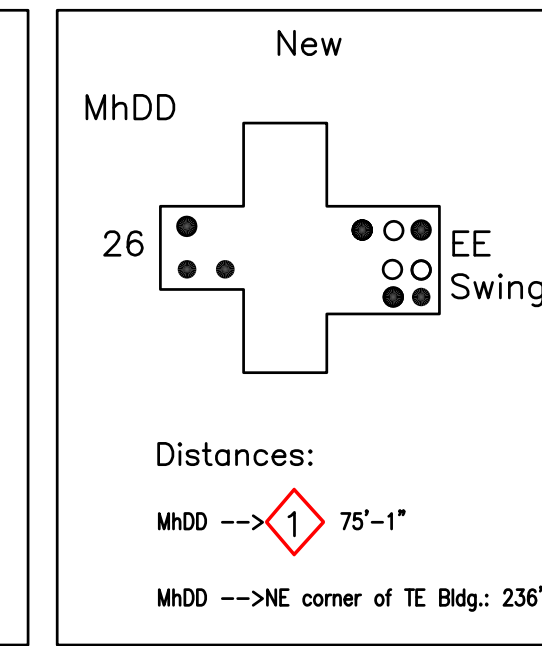
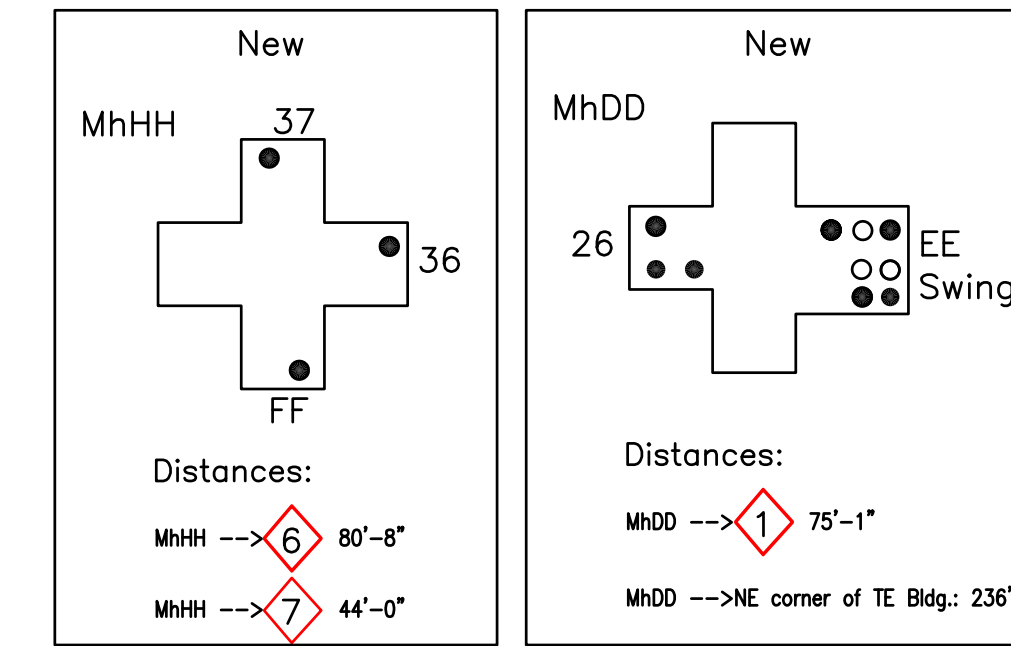
Issued for Construction	07-01-93	Record Drawing	07-01-93
Drawn by	Wm 7/13/93	Checked by	LR
Designed by	LR 8/2/96	Approved by	DATE
Approved by	DATE	Approved by	DATE
SOUTHERN CONNECTICUT STATE UNIVERSITY		digital Network Integration Services Digital Equipment Corporation	
SOUTHERN CAMPUS			
Interbuilding Distribution			
Fiber Layout Second Section			
Project Number	39154	Sheet	6 of 15

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Manhole Measurements & New Conduit Butterflies

Intra-Building Conduit



Legend

- CE - Concrete Encasement
- PDE - Point of Entrance
- Point of Measurement
- Splice Point
- Lightning Protection
- Voice Hub
- Fiber Hub
- Copper/Fiber
- New PVC Conduits
- Existing Manhole
- New Manhole
- Conduit run in Tunnel
- Conduit Encased in Concrete

Depth of new conduits (N) - 24"

Note:
In the Manhole Measurements and New Conduit Butterflies, numbers indicate buildings, letters indicate manholes

- Moore - 1-4" Rigid/EMT (R) from PoE in Electrical Room B2 to MDF-BA containing: Cable O16, 400 pr, Pairs 5401-5800 from Granoff to Moore
Fiber F31-12C:8M/4S from Granoff to Moore
- Pine Rock High Rise - 2-4" Rigid/EMT (N) from PoE in Mechanical Room 11 to Central Fire Control Room 12 to Lightning Protection containing:
Cable O1A, 400 pr, Pairs 001-400 from splice in MhFF
Cable O1A1, 400 pr, Pairs 401-800 from splice in MhFF
- MhX --> MhII: 4-4" PVC (N) 241'
1->9: 115'-0" @ 255° NE
1->MhX: 7'-1" @ 255° SW
2->9: 44'-9" @ 100° SE
3->MhII: 114'-5" @ 60° NE
3->9: 47'-11" @ 125° SE
4->61: 32'-5" @ 140° SE
4->MhII: 39'-3" @ 70° NE
5->MhII: 10'-2" @ 60° NE
5->61: 13'-6" @ 140° SE
- Wintergreen St. --> MhDD: 4-4" PVC (N) : 325'
3->CL&P pole# 5942 : 9'-0" @ 150° SE
3->1: 94'-0" @ 45° NE (CE from Wintergreen to MhDD)
- MhDD --> MhEE: 4-4" PVC (N) : 573'
1->62: 66'-7" @ 220° SW
1->63: 62'-6" @ 30° NE
2->63: 19'-0" @ 245° SW
2->64: 112'-9" @ 25° NE
from MhDD to 2 (300' from MhDD) conduit is 10' from Fence
3->72: 44'-4" @ 330° NW
3->MhEE: 37'-0" @ 75° NE
- MhEE --> MhFF: 4-4" PVC (N) 541'-6"
1->MhEE: 151'-0" @ 230° SW
1->centerline of closest pullbox to MhEE: 12'-3" @ 70° NE
2->MhDD: 341'-8" @ 230° SW
2->65: 292'-7" @ 325° NW
Conduit is 2' from Curb between 1 and 2
3->MhFF: 42'-2" @ 45° NE
3->65: 211'-8" @ 265° SW
- MhFF to Pine Rock Duplex A: 1-4" PVC (N): 126'-0"
1->4: 61'-1" @ 325° NW
1->MhFF: 58'-0" @ 230° SW
- MhFF to Pine Rock High Rise Apts: 4-4" PVC (N) 527'
1->5: 47'-0" @ 350° NW
1->MhFF: 146'-0" @ 250° SW
2->5: 74'-0" @ 260° SW
2->66: 136'-8" @ 40° NE
3->67: 56'-6" @ 30° NE
3->68: 46'-7" @ 10° N
4->68: 37'-0" @ 140° SE
4->67: 11'-0" @ 95° SE
Conduit is approximately 2'-9" from sidewalk at Pine Rock High Rise to 3
- MhFF --> MhHH: 1-4" PVC (N): 317'-0"
1->4: 58'-0" @ 75° NE
1->MhFF: 77'-4" @ 150° SE
2->69: 69'-8" @ 120° SE
2->70: 87'-8" @ 30° NE
3->6: 60'-0" @ 80° SE
3->70: 71'-2" @ 110° SE
- MhHH to Pine Rock Duplex C: 1-4" PVC (N): 91'-0"
1->7: 34'-4" @ 345° NW
1->MhHH: 22'-9" @ 245° SW
2->MhHH: 73'-7" @ 240° SW
2->7: 52'-4" @ 275° SW
- MhHH to Pine Rock Duplex D: 1-4" PVC (N): 366'-0"
1->71: 71'-2" @ 110° SE
1->74: 122'-4" @ 175° SE
2->71: 117'-4" @ 55° NE
2->72: 138'-7" @ 30° NE
3->72: 30'-0" @ 80° NE
3->71: 47'-7" @ 130° SE
4->72: 52'-9" @ 240° SW
4->73: 61'-9" @ 80° NE
- Pine Rock Duplex C to Pine Rock Duplex B: 1-4" PVC (N): 366'-0"
1->6: 55'-4" @ 90° S
1->7: 64'-0" @ 275° NW
2->6: 50'-0" @ 235° SW
2->7: 110'-4" @ 235° SW

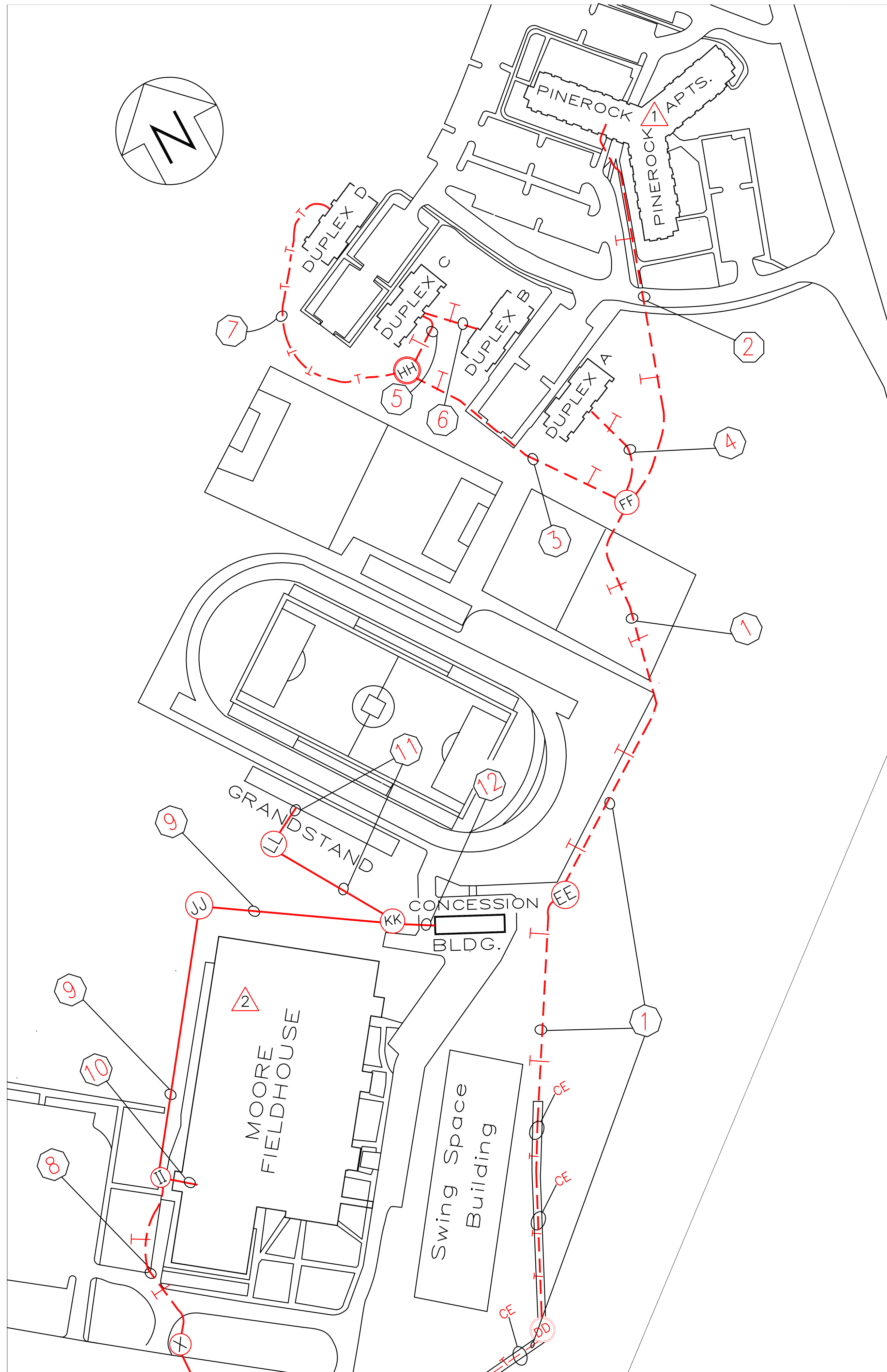
Note: 67 is left edge of double doors of Pine Rock Apts.

Date	Description	Appr. by
7/28/96	Reviewed	LR
	Revisions	

Issued for Construction	07-01-93	Record Drawing	07-01-93
Checked by	DATE	DATE	DATE
Approved by	DATE	DATE	DATE
SOUTHERN CONNECTICUT STATE UNIVERSITY			
digital Network Integration Services Digital Equipment Corporation			
Project Name	39154	Sheet No.	N/A
Scale		Sheet	7 of 15

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Inter Building Copper

- 1 Cable 01, 1200pr, Pairs 001-1200 from Granoff to Splice in MhFF (N)
- 2 Cable 01A, 400pr, Pairs 001-400 from Splice in MhFF to Lighting Protection in Central Control Fire Station Room 12 in Pine Rock High Rise Apts.(N)
Cable 01A1, 400pr, Pairs 401-800 from Splice in MhFF to Lighting Protection in Central Control Fire Station Room 12 in Pine Rock High Rise Apts.(N)
- 3 Cable 02, 200pr, Pairs 801-900 and 1001-1100 from Splice in MhFF to Pine Rock Duplex C (N)
Cable 03, 100pr, Pairs 901-1000 from Splice in MhFF to Pine Rock Duplex D (N)
- 4 Cable 04, 100pr, Pairs 1101-1200 from Splice in MhFF to Pine Rock Duplex A (N)
- 5 Cable 02, 200pr, Pairs 801-900 and 1001-1100 from Splice in MhFF to Pine Rock Duplex C (N)
- 6 Cable 03, 100pr, Pairs 1001-1100 from splice in Pine Rock Duplex C to Pine Rock Duplex B (N)
- 7 Cable 03, 100pr, Pairs 901-1000 from Splice in MhHH to Pine Rock Duplex D (N)
- 8 Cable 016, 400pr, Pairs 5401-5800 from Granoff to Moore Field House (N)
- 9 Cable 016A, 50pr, Pairs 5726-5775 from MDF-BA in Moore Field House to Grandstand (N)
Cable 016B, 25pr, Pairs 5776-5800 from MDF-BA in Moore Field House to Concession (N)
- 10 Cable 016, 400pr, Pairs 5401-5800 from Granoff to Moore Field House (N).
Cable 016A, 50pr, Pairs 5726-5775 from MDF-BA in Moore Field House to Grandstand (N)
Cable 016B, 25pr, Pairs 5776-5800 from MDF-BA in Moore Field House to Concession (N).
- 11 Cable 016A, 50pr, Pairs 5726-5775 from MDF-BA in Moore Field House to Grandstand (N)
- 12 Cable 016B, 25pr, Pairs 5726-5775 from MDF-BA in Moore Field House to Concession (N).

Splice in MhFF

- Cable 01 1200 pr, Pairs 001-400 from Granoff, Spliced to 400 Pr. Cable 01A Pairs 001-400 to Pine Rock High Rise Apts (N)
- Cable 01, 1200 pr, Pairs 401-800, from Granoff, Spliced to 400 Pr. Cable 01A1 Pairs 401-800 to Pine Rock High Rise Apts (N)
- Cable 01, 1200 pr, Pairs 801-900, and Pairs 1001-1100 from Granoff, Spliced to 200 Pr. Cable 02 Pairs 801-900 and 1001-1100 to Pine Rock Duplex C (N)
- Cable 01, 1200 pr, Pairs 1101-1200, from Granoff, Spliced to 100 Pr. Cable 04 Pairs 1101-1200 to Pine Rock Duplex A (N)
- Cable 01, 1200 pr, Pairs 901-1000, from Granoff, Spliced to 100 Pr. Cable 03 Pairs 901-1000 to Pine Rock Duplex D (N)

Splice in MhEE

- Cable 01, 1200 pr, Pairs 001-1200, from Granoff, Spliced to Cable 01, 1200pr, Pairs 001-1200 to MhFF

Intra Building Copper

- 1 Interior Cable 02A Pairs 001-400 from Lightning Protection in Central Control Fire Station Room 12 in Pine Rock High Rise Apts. to MDF-2A (N).
Interior Cable 02A1 Pairs 401-800 from Lightning Protection in Central Control Fire Station Room 12 in Pine Rock High Rise Apts. to MDF-2A (N)
Interior Cable 5A Pairs 001-400 from MDF-2A to IDF-5A in Pine Rock High Rise Apts.(N)
Interior Cable 5A1 Pairs 401-500 from MDF-2A to IDF-5A in Pine Rock High Rise Apts.(N)
- 2 Interior Cable 2A, 300pr, Pairs 001-300 from MDF-BA to IDF-2A.

Legend

- CE - Concrete Encasement
- POE - Point of Entrance
- ◊ - Point of Measurement
- ⊗ - Splice Point
- ⏏ - Lightning Protection
- ⊠ - Voice Hub
- ⊙ - Fiber Hub
- — — — — Copper/Fiber
- - - - - New PVC Conduits
- Existing Manhole
- ⊗ New Manhole
- — — — — Conduit run in Tunnel
- ▬ Conduit Encased in Concrete

Depth of new conduits (N) - 24"

Note:
In the Manhole Measurements and New Conduit Butterflies, numbers indicate buildings, letters indicate manholes

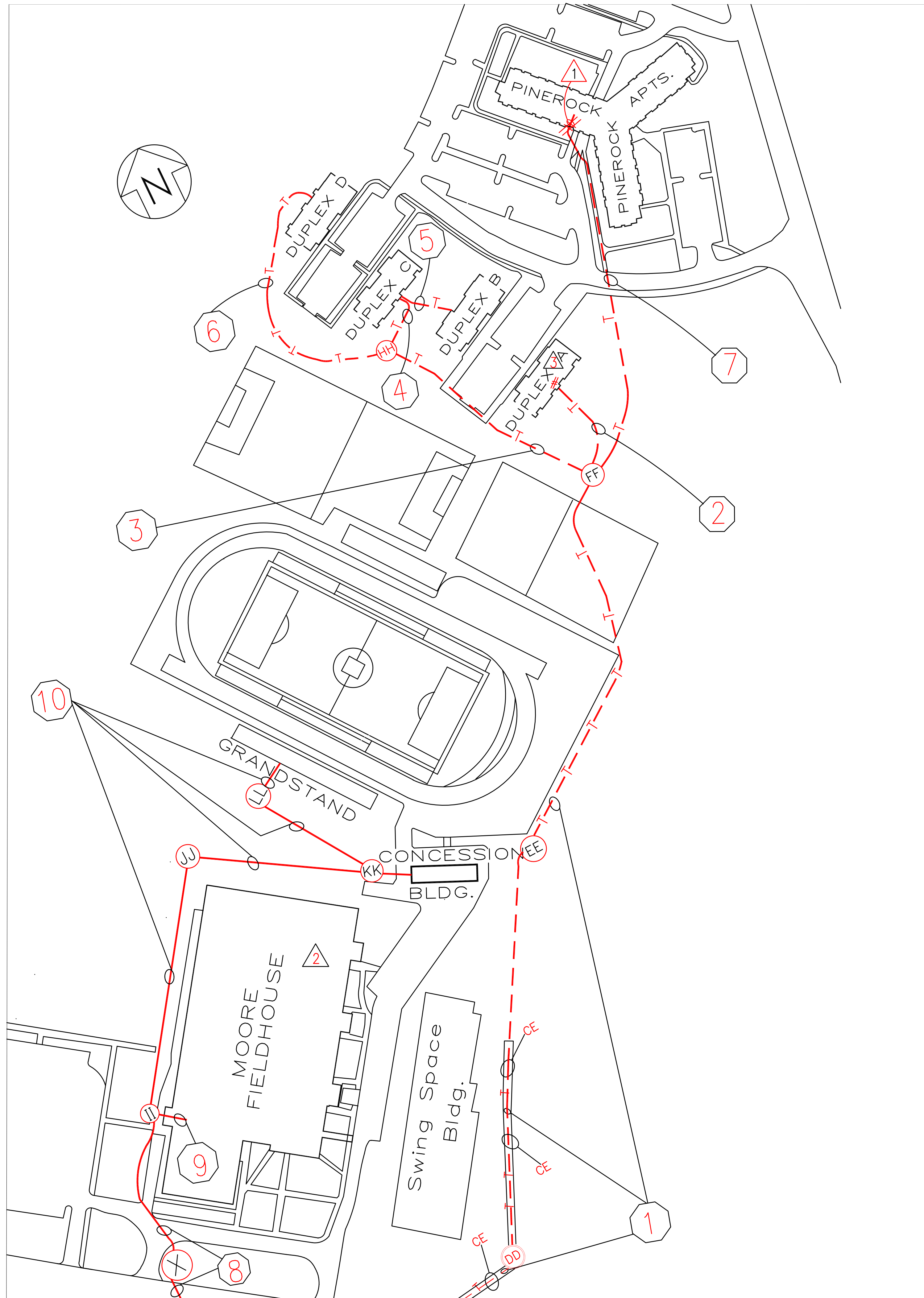
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Issued for Construction	07-01-93	Record Drawing	07-01-93
Drawn by	Wjn	DATE	7/29/96
Checked by	LR	DATE	7/29/96
Approved by		DATE	
Approved by		DATE	
DATE	7/13/93	REVISION	
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DATE	9/25/95	REVISION	
DATE	11/15/95	REVISION	
DATE	7/29/96	REVISION	
PROJECT NUMBER	39154	DRAWING NO.	SCOP3
		SHEET	8 of 15

SOUTHERN CONNECTICUT STATE UNIVERSITY
digital Network Integration Services
 Digital Equipment Corporation

SOUTHERN CAMPUS
 Interbuilding Distribution
 Copper Layout Third Section



Inter Building Fiber

- 1 Exterior Fiber F26-36C:24M/12S from Granoff to splice terminations in Pine Rock Duplex A (N).
- 2 Exterior Fiber F27-36C:24M/12S from Granoff to Splice terminations in MDF-1A in Pine Rock Duplex A (N).
 Exterior Fiber F27-12C:8M/4S from splice in MDF-1A in Pine Rock Duplex A to Pine Rock High Rise (N)
 Exterior Fiber F28-12C:8M/4S from LDS in MDF-1A in Pine Rock Duplex A to Pine Rock Duplex B (N)
 Exterior Fiber F29-12C:8M/4S from LDS in MDF-1A in Pine Rock Duplex A to Pine Rock Duplex C (N)
 Exterior Fiber F30-12C:8M/4S from LDS in MDF-1A in Pine Rock Duplex A to Pine Rock Duplex D (N)
- 3 Exterior Fiber F28-12C:8M/4S from LDS in MDF-1A in Pine Rock Duplex A to Pine Rock Duplex B (N)
 Exterior Fiber F29-12C:8M/4S from LDS in MDF-1A in Pine Rock Duplex A to Pine Rock Duplex C (N)
 Exterior Fiber F30-12C:8M/4S from LDS in MDF-1A in Pine Rock Duplex A to Pine Rock Duplex D (N)
- 4 Exterior Fiber F29-12C:8M/4S from LDS in MDF-1A in Pine Rock Duplex A to Pine Rock Duplex C (N)
 Exterior Fiber F28-12C:8M/4S from LDS in MDF-1A in Pine Rock Duplex A to Pine Rock Duplex B (N)
- 5 Exterior Fiber F28-12C:8M/4S from LDS in MDF-1A in Pine Rock Duplex A to Pine Rock Duplex B (N)
- 6 Exterior Fiber F30-12C:8M/4S from LDS in MDF-1A in Pine Rock Duplex A to Pine Rock Duplex D (N)
- 7 Exterior Fiber 27-12C:8M/4S from Splice in MDF-1A in Pine Rock Duplex A to Pine Rock High Rise (N)
- 8 Exterior Fiber F31-12C:8M/4S from Granoff to Moore (N).
 Exterior F32-12C:8M/4S from Granoff to Grandstand (N).
- 9 Exterior Fiber F31-12C:8M/4S from Granoff to Moore (N).
- 10 Exterior Fiber F32-12C:8M/4S from Granoff to Grandstand (N).

Intra Building Fiber

- 1 Exterior Fiber F27-12C:8M/4S spliced to Exterior 12C:8M/4S (only 8M are spliced) in Central Control Fire Station (N)
- 2 Interior 6M from MDF-BA to IDF-2A
- 3 Exterior Fiber F26-36C:24M/12S, Fiber 1-16, from Granoff are terminated in LDS.
 Fibers 17-24 (8M Fibers) from Exterior Fiber 26 from are spliced to Exterior Fiber F27-12C:8M/4S to Pine Rock High Rise Apts.
 6M of Exterior Fiber F27-12C:8M/4S to Pine Rock Duplex B are terminated
 6M of Exterior Fiber F28-12C:8M/4S to Pine Rock Duplex C are terminated
 6M of Exterior Fiber F29-12C:8M/4S to Pine Rock Duplex D are terminated

Legend

- CE - Concrete Encasement
- POE - Point of Entrance
- n - Point of Measurement
- ⌘ - Splice Point
- ⏏ - Lightning Protection
- ⊞ - Voice Hub
- ⊙ - Fiber Hub
- - Copper/Fiber
- T T T T — - New PVC Conduits
- - Existing Manhole
- ⊗ - New Manhole
- — — — — - Conduit run in Tunnel
- — — — — - Conduit Encased in Concrete

Depth of new conduits (N) - 24"

Note:
 In the Manhole Measurements and New Conduit Butterflies, numbers indicate buildings, letters indicate manholes

7/29/96	Reviewed	LR
Date	Description	Appr. by
	Revisions	

Issued for Construction	07-01-93	Record Drawing	07-01-93
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LR	7/26/96	Wm 9/25/95	11/15/95
Checked by	DATE	Checked by	DATE
Wm 3/14/97		Wm 8/12/96	

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SOUTHERN CONNECTICUT STATE UNIVERSITY
digital Network Integration Services
 Digital Equipment Corporation

SOUTHERN CAMPUS
 Interbuilding Distribution
 Fiber Layout Third Section

Manhole M (Existing)

NORTH (Top)						
A	B	C	D	E	F	
1	⊖					
2	⊖					
3	⊖					
4	⊖					
5	⊖					
6						

EAST (Top)						
A	B	C	D	E	F	
1	⊖					
2	⊖					
3	⊖					
4	⊖					
5	⊖					
6						

SOUTH (Top)						
A	B	C	D	E	F	
1						
2						
3						
4						
5						
6						

WEST (Top)						
A	B	C	D	E	F	
1						
2	⊖					
3						
4						
5						
6						

Conduit Label	Size	Depth	Type	Splice	Notes
E4A	4"	4'	18 300	L	Pairs 5901-6200 from Engleman to Granoff
W2A	4"	4'	18 300	N	
E4A	4"	4'	F23 12M	L	12M from Engleman to Granoff
W2A	4"	4'	F23 12M	N	
E4A	4"	4'	F24 36C	L	24M/12S from Engleman to Granoff
W2A	4"	4'	F24 36C	N	
E4A	4"	4'	F25 36C	L	24M/12S from Engleman to Granoff
W2A	4"	4'	F25 36C	N	

⊖ = Existing
⊖ = Reused
⊕ = Reused and New Cables/Fiber

Manhole O (Existing)

NORTH (Top)						
A	B	C	D	E	F	
1						
2	⊖					
3	⊖					
4						
5						
6						

SOUTH EAST (Top)						
A	B	C	D	E	F	
1	⊖					
2	⊖					
3						
4						
5						
6						

SOUTH (Top)						
A	B	C	D	E	F	
1						
2						
3						
4						
5						
6						

SOUTH WEST (Top)						
A	B	C	D	E	F	
1						
2	⊖					
3	⊖					
4						
5						
6						

Conduit Label	Size	Depth	Type	Splice	Notes
SE2B	4"	4'	O7A 50	N	Pairs 2201-2250 from splice in MhO to Connecticut Hall
SE2B	4"	4'	O7B 50	N	Pairs 2251-2300 from splice in MhO to Connecticut Hall
SE2B	4"	4'	18 300	N	Pairs 5901-6200 from splice in MhP to Engleman
SW2B	4"	3'	18 300	P	Pairs 5901-6200 from splice in MhP to Engleman
SW2A	4"	2'	O7 100	P	Pairs 2201-2300 from splice in MhP to Splice MhO
SE2A	4"	2'	F24 36C	N	24M/12S from Engleman to Granoff
SW2B	4"	3'	F24 36C	P	
SE2B	4"	4'	F33 12C	N	8M/4S from Granoff to Connecticut Hall
SW2A	4"	2'	F33 12C	P	
SE2A	4"	2'	F23 12C	N	12C:8M/4S from Engleman to Granoff
SW2B	4"	3'	F23 12C	P	

⊖ = Existing
⊖ = Reused
⊕ = Reused and New Cables/Fiber

Manhole Q (Existing)

NORTH (Top)						
A	B	C	D	E	F	
1						
2	⊖					
3						
4						
5						
6						

NORTH EAST (Top)						
A	B	C	D	E	F	
1	⊖					
2	⊖					
3						
4						
5						
6						

SOUTH (Top)						
A	B	C	D	E	F	
1						
2						
3						
4						
5						
6						

SOUTH WEST (Top)						
A	B	C	D	E	F	
1						
2	⊖					
3						
4						
5						
6						

Conduit Label	Size	Depth	Type	Splice	Notes
NE1C	4"	1'	O8 1200	P	Pairs 2301-3500 from Granoff to splice in MhQ
N2B	4"	2'	O8A 200		Pairs 2301-2500 from splice in MhQ to Farnham
N2B	4"	2'	O8A1 200		Pairs 2501-2800 from splice in MhQ to Farnham
NW1A	4"	2'	O9 100		Pairs 2801-2900 from splice in MhQ to Orlando
SW1B	4"	4'	10 400	R	Pairs 2901-3300 from splice in MhQ to Brownell
SW1B	4"	4'	11 200	R	Pairs 3301-3500 from splice in MhQ to Lang
NE1B	4"	4'	F36 12C	P	8M/4S from Granoff to Lang
SW1B	4"	4'	F36 12C	R	
NE1B	4"	4'	F37 12C	P	8M/4S from Granoff to Orlando
NW1A	4"	2'	F37 12C		
NE1B	4"	4'	F38 12C	P	8M/4S from Granoff to Brownell
SW1B	4"	4'	F38 12C	R	
NE1B	4"	4'	F41 12C	P	8M/4S from Granoff to Farnham
N1A	4"	1'	F41 12C		

⊖ = Existing
⊖ = Reused
⊕ = Reused and New Cables/Fiber

Manhole S (Existing)

EAST (Top)						
A	B	C	D	E	F	
1						
2	⊖					
3						
4						
5						
6						

NORTH (Top)						
A	B	C	D	E	F	
1						
2	⊖					
3						
4						
5						
6						

WEST (Top)						
A	B	C	D	E	F	
1						
2						
3						
4						
5						
6						

SOUTH (Top)						
A	B	C	D	E	F	
1						
2						
3						
4						
5						
6						

Conduit Label	Size	Depth	Type	Splice	Notes
E2B	4"	2'	10 400	R	Pairs 2901-3300 from splice in MhQ to Brownell
N2A	4"	2'	10 400		
E2B	4"	2'	F38 12C	R	24M/12S from Granoff to Brownell
N2A	4"	2'	F38 12C		

⊖ = Existing
⊖ = Reused
⊕ = Reused and New Cables/Fiber

Manhole N (Existing)

NORTH (Top)						
A	B	C	D	E	F	
1						
2						
3						
4						
5						
6						

SOUTH (Top)						
A	B	C	D	E	F	
1	⊖					
2	⊖					
3						
4						
5						
6						

WEST (Top)						
A	B	C	D	E	F	
1	⊖					
2	⊖					
3						
4						
5						
6						

NORTH WEST (Top)						
A	B	C	D	E	F	
1						
2	⊖					
3						
4						
5						
6						

Conduit Label	Size	Depth	Type	Splice	Notes
S2B	4"	4'	O18 300	M	Pairs 5901-6200 from Engleman to splice in MhP
NW2B	4"	4'	O18 300	O	
NW2A	4"	3'	O7A 50	O	Pairs 2201-2250 from splice in MhO to Connecticut Hall
W1B	4"	3'	O7A 50	15	
NW2A	4"	3'	O7B 50	O	Pairs 2251-2300 from splice in MhO to Connecticut Hall
W1B	4"	3'	O7B 50	15	
S2B	4"	4'	F23 12M	M	12M from Engleman to Granoff
NW2B	4"	4'	F23 12M	O	
S2B	4"	4'	F24 36C	M	24M/12S from Engleman to Granoff
NW2B	4"	4'	F24 36C	O	
S2B	4"	4'	F25 36C	M	24M/12S from Engleman to Granoff
NW2B	4"	4'	F25 36C	O	
NW2A	4"	3'	F33 12C	O	8M/4S from Engleman to Connecticut Hall
W1B	4"	3'	F33 12C	15	

⊖ = Existing
⊖ = Reused
⊕ = Reused and New Cables/Fiber

Manhole P (Existing)

NORTH (Top)						
A	B	C	D	E	F	
1	⊖					
2	⊖					
3	⊖					
4						
5						
6						

NORTH EAST (Top)						
A	B	C	D	E	F	
1	⊖					
2	⊖					
3	⊖					
4						
5						
6						

SOUTH EAST (Top)						
A	B	C	D	E	F	
1	⊖					
2	⊖					
3						
4						
5						
6						

SOUTH WEST (Top)						
A	B	C	D	E	F	
1						
2	⊖					
3	⊖					
4						
5						
6						

Conduit Label	Size	Depth	Type	Splice	Notes
NE1A	4"	1'	O8 1200	O	Pairs 2301-3800 from Granoff to splice in MhQ
SW2C	4"	1'	O8 1200	Q	
NE1D	4"	1'	O6 1200	U	Cable 06 Pairs 1301-1600 spliced in MhP to Cable 18
NE3B	4"	4'	18 300	O	300 pr. Pairs 5901-6200
SE2B	4"	1'	O6B 600	MM	Pairs 1601-2200 from splice in MhP to Schwartz
NE1B	4"	1'	O7 100	O	Pairs 2201-2300 from splice in MhP to splice in MhO
NE3B	4"	4'	F23 12C	O	8M/4S from Engleman to Granoff
N1B	4"	3'	F23 12C	T	
NE3B	4"	4'	F24 36C	O	24M/12S from Engleman to Granoff
N1B	4"	3'	F24 36C	T	
NE3B	4"	4'	F33 12C	O	8M/4S from Granoff to Connecticut Hall
N1B	4"	3'	F33 12C	U	
SE2A	4"	1'	F34 12C	MM	8M/4S from Granoff to Schwartz
NE3C	4"	1'	F34 12C	U	
NE1C	4"	4'	F36 12C	U	8M/4S from Granoff to Lang
SW4B	4"	4'	F36 12C	Q	
NE1C	4"	4'	F37 12C	U	8M/4S from Granoff to Orlando
SW4B					

Manhole* In Front of Hickerson (Existing)

NORTH (Top)		NORTH EAST (Top)		SOUTH EAST (Top)		SOUTH WEST (Top)	
A B C D E F		A B C D E F		A B C D E F		A B C D E F	
1	⊕	1	⊕	1	⊕	1	⊕
2	⊕	2	⊕	2	⊕	2	⊕
3		3		3		3	
4		4		4		4	
5		5		5		5	
6		6		6		6	
Conduit Label	Size	# of Cables	Cable ID	Cable Size	Cable ID	Comments	⊕ = Existing ⊕ = Reused ⊕ = Reused and New Cables/Fiber
SE1B	4"	2	014	100	V	Pairs 4501-4600 from Granoff to Hickerson	
SW2A	4"	3	014	100	23		
SE1B	4"	2	014A	400	V	Pairs 4601-5000 from Granoff to Hickerson	
SW2A	4"	3	014A	400	23		
NE1B	4"	4	016	400	AA	Pairs 5401-5800 from Granoff to Moore	
SE2A	4"	3	016	400	V		
NE1B	4"	3	015	400	AA	Pairs 5001-5400 from Granoff to Neff	
SE2A	4"	1	015	400	V		
SE1A	4"	4		F45	12C	V	8M/4S from Granoff to Hickerson
SW2A	4"	3		F45	12C	23	
SE1A	4"	4		F32	12C	V	8M/4S from Granoff to Grandstand
NE2B	4"	2		F32	12C	AA	
SE1A	4"	4		F31	12C	V	8M/4S from Granoff to Moore
NE2B	4"	2		F31	12C	AA	
NE1B	4"	3		F44	12C	AA	8M/4S from Granoff to Moore
SE1A	4"	4		F44	12C	V	

Manhole U (Existing)

NORTH (Top)		NORTH EAST (Top)		SOUTH (Top)		SOUTH EAST (Top)		NORTH WEST (Top)	
A B C D E F		A B C D E F		A B C D E F		A B C D E F		A B C D E F	
1	⊕	1	⊕	1	⊕	1	⊕	1	⊕
2	⊕	2	⊕	2	⊕	2	⊕	2	⊕
3	⊕	3	⊕	3	⊕	3	⊕	3	⊕
4		4		4		4		4	
5		5		5		5		5	
6		6		6		6		6	
Conduit Label	Size	# of Cables	Cable ID	Cable Size	Cable ID	Comments	⊕ = Existing ⊕ = Reused ⊕ = Reused and New Cables/Fiber		
N2A	4"	1	06	900	V	Pairs 1301-2200 from Granoff to splice in MHP			
SE1A	4"	1	06	900	P				
SE1D	4"	1	08	1200	T	Pairs 2301-3500 from Granoff to splice in MhQ			
N1A	4"	1	08	1200	V				
N1B	4"	1	07	100	V	Pairs 2201-2300 from Granoff to splice in MhO			
NE2C	4"	1	07	100	P				
N1D	4"	3	13	200	V	Pairs 4001-4200 from Granoff to Chase			
S2B	4"	2	13	200	22				
N1D	4"	3	13A	300	V	Pairs 4201-4500 from Granoff to Chase			
S2B	4"	2	13	300	22				
S2A	4"	1		F43	12C	22	8M/4S from Granoff to Chase		
N3B	4"	3		F43	12C	V			
N1C	4"	7		F34	12C	V	8M/4S from Granoff to Schwartz		
NE2B	4"	8		F34	12C	P			
N1C	4"	7		F36	12C	V	8M/4S from Granoff to Lang		
NE2B	4"	6		F36	12C	P			
N1C	4"	7		F37	12C	V	8M/4S from Granoff to Orlando		
NE2B	4"	6		F37	12C	P			
N1C	4"	7		F38	12C	V	8M/4S from Granoff to Brownell		
NE2B	4"	6		F38	12C	P			
N1C	4"	7		F41	12C	V	8M/4S from Granoff to Farnham		
NE2B	4"	6		F41	12C	P			
N1C	4"	7		F33	12C	V	8M/4S from Granoff to Connecticut Hall		
NE2B	4"	6		F33	12C	P			

Manhole V (Existing)

NORTH (Top)		NORTH EAST (Top)		SOUTH EAST (Top)		SOUTH WEST (Top)	
A B C D E F		A B C D E F		A B C D E F		A B C D E F	
1	⊕	1	⊕	1	⊕	1	⊕
2	⊕	2	⊕	2	⊕	2	⊕
3		3		3		3	
4		4		4		4	
5		5		5		5	
6		6		6		6	
Conduit Label	Size	# of Cables	Cable ID	Cable Size	Cable ID	Comments	⊕ = Existing ⊕ = Reused ⊕ = Reused and New Cables/Fiber
NE2B	4"	4	015	400		Pairs 5001-5420 from Granoff to Neff	
N2B	4"	2	015	400			
NE2B	4"	4	016	400		Pairs 5401-5800 from Granoff to Moore	
N2B	4"	2	016	400			
NE2A	4"	10		F23	12C	26	12C:8M/4S from Engleman to Granoff
SW2A	4"	2		F23	12C	U	
NE2A	4"	10		F24	36C	26	24M/12S from Engleman to Granoff
SW2A	4"	2		F24	36C	U	
NE2A	4"	10		F31	12C	26	8M/4S from Granoff to Moore
N1B	4"	4		F31	12C		
NE2A	4"	10		F32	12C	26	8M/4S from Granoff to Grandstand
N1B	4"	4		F32	12C		
NE2A	4"	10		F33	12C	26	8M/4S from Granoff to Ct Hall
SW3A	4"	2		F33	12C	U	
NE2A	4"	10		F34	12C	26	8M/4S from Granoff to Schwartz
SW3A	4"	2		F34	12C	U	
NE1B	4"	8		F36	12C	26	8M/4S from Granoff to Lang
SW1B	4"	7		F36	12C	U	
NE1B	4"	8		F37	12C	26	8M/4S from Granoff to Orlando
SW1B	4"	7		F37	12C	U	
NE1B	4"	8		F38	12C	26	8M/4S from Granoff to Brownell
SW1B	4"	7		F38	12C	U	

Manhole V (Existing) (contd.)

NORTH (Top)		NORTH EAST (Top)		SOUTH EAST (Top)		SOUTH WEST (Top)	
A B C D E F		A B C D E F		A B C D E F		A B C D E F	
1	⊕	1	⊕	1	⊕	1	⊕
2	⊕	2	⊕	2	⊕	2	⊕
3		3		3		3	
4		4		4		4	
5		5		5		5	
6		6		6		6	
Conduit Label	Size	# of Cables	Cable ID	Cable Size	Cable ID	Comments	⊕ = Existing ⊕ = Reused ⊕ = Reused and New Cables/Fiber
NE1B	4"	8	06	900		26	Pairs 1301-2200 from Granoff to splice in MhP
SW1C	4"	2	06	900		U	
NE1B	4"	8	07	100		26	Pairs 2201-2300 from Granoff to splice in MhO
SW1C	4"	2	07	100		U	
NE2A	4"	10	08-1	600		26	Pairs 2301-2900 from Granoff to splice in MhV
NE2A	4"	10	08-2	600		26	Pairs 2901-3500 from Granoff to splice in MhV
SW1D	4"	1	08	1200		U	Pairs 2301-3500 from splice in MhV to splice in MhQ
NE1A	4"	4	012	200		26	Pairs 3501-3700 from Granoff to Wilkinson
SW1A	4"	3	012	200		U	
NE1A	4"	4	012A	300		26	Pairs 3701-4000 from Granoff to Wilkinson
SW1B	4"	7	012A	300		U	
NE1A	4"	4	013	200		26	Pairs 4001-4200 from Granoff to Chase
SW1A	4"	3	013	200		U	
NE1A	4"	4	013A	300		26	Pairs 4201-4500 from Granoff to Chase
SW1A	4"	3	013A	300		U	
NE2B	4"	4	014	100			Pairs 4501-4600 from Granoff to Hickerson
N1A	4"	2	014	100			
NE2B	4"	4	014A	400			Pairs 4601-5000 from Granoff to Hickerson
N1A	4"	2	014A	400			

Manhole AA (Existing)

NORTH (Top)		NORTH EAST (Top)		SOUTH WEST (Top)		WEST (Top)	
A B C D E F		A B C D E F		A B C D E F		A B C D E F	
1	⊕	1	⊕	1	⊕	1	⊕
2	⊕	2	⊕	2	⊕	2	⊕
3		3		3		3	
4		4		4		4	
5		5		5		5	
6		6		6		6	
Conduit Label	Size	# of Cables	Cable ID	Cable Size	Cable ID	Comments	⊕ = Existing ⊕ = Reused ⊕ = Reused and New Cables/Fiber
SW1B	4"	1	016	400		*	Pairs 5400-5800 from Granoff to Moore
NE2A	4"	3	016	400		W	
SW1A	4"	1	15	400		*	Pairs 5001-5400 from Granoff to Neff
W1A	4"	2	15	400		Y	
SW2A	4"	3		F32	12C	*	8M/4S from Granoff to Grandstand
NE2A	4"	3		F32	12C	W	
SW2A	4"	3		F31	12C	*	8M/4S from Granoff to Moore
NE2A	4"	3		F31	12C	W	
SW2A	4"	3		F44	12C	*	8M/4S from Granoff to Neff
W1A	4"	2		F44	12C	Y	
* Indicates Manhole at Hickerson, identifier unknown							

Manhole U (Existing) (contd.)

NORTH (Top)		NORTH EAST (Top)		SOUTH (Top)		SOUTH EAST (Top)		NORTH WEST (Top)	
A B C D E F		A B C D E F		A B C D E F		A B C D E F		A B C D E F	
1	⊕	1	⊕	1	⊕	1	⊕	1	⊕
2	⊕	2	⊕	2	⊕	2	⊕	2	⊕
3	⊕	3	⊕	3	⊕	3	⊕	3	⊕
4		4		4		4		4	
5		5		5		5		5	
6		6		6		6		6	
Conduit Label	Size	# of Cables	Cable ID	Cable Size	Cable ID	Comments	⊕ = Existing ⊕ = Reused ⊕ = Reused and New Cables/Fiber		
N3B	4"	3		F23	12C	V	8M/4S from Engleman to Granoff		
SE2B	4"	2		F23	12C	T			
N3B	4"	3		F24	36C	V	24M/12S from Engleman to Granoff		
SE2B	4"	2		F24	36C	T			
SE1B	4"	2		F42	12C	21	8M/4S from Granoff to Wilkinson		
N3B	4"	3		F42	12C	V			
N1D	4"	3	012	200		V	Pairs 3501-3700 from Granoff to Wilkinson		
SE1B	4"	3	012	200		21			
N1C	4"	7	012A	300		V	Pairs 3701-4000 from Granoff to Wilkinson		
SE1B	4"	2	012A	300		21			

Manhole V (Existing) (contd.)

NORTH (Top)		NORTH EAST (Top)		SOUTH EAST (Top)		SOUTH WEST (Top)	
A B C D E F		A B C D E F		A B C D E F		A B C D E F	
1	⊕	1	⊕	1	⊕	1	⊕
2	⊕	2	⊕	2	⊕	2	⊕
3		3		3		3	
4		4		4		4	
5		5		5		5	
6		6		6		6	
Conduit Label	Size	# of Cables	Cable ID	Cable Size	Cable ID	Comments	⊕ = Existing ⊕ = Reused ⊕ = Reused and New Cables/Fiber
NE1B	4"	8		F41	12C	26	8M/4S from Granoff to Farnham
SW1B	4"	7		F41	12C	U	
NE1B	4"	8		F42	12C	26	8M/4S from Granoff to Wilkinson
SW1B	4"	7		F42	12C	U	
NE1B	4"	8		F43	12C	26	8M/4S from Granoff to Chase
SW1B	4"	7		F43	12C	U	
NE2A	4"	10		F44	12C	26	8M/4S from Granoff to Neff
N1B	4"	4		F44	12C		
NE2A	4"	10		F45	12C	26	8M/4S from Granoff to Hickerson
N1B	4"	4		F45	12C		

Manhole T (Existing)

NORTH (Top)		EAST (Top)		SOUTH (Top)		WEST (Top)	
A B C D E F		A B C D E F		A B C D E F		A B C D E F	
1	⊕	1	⊕	1	⊕	1	⊕
2	⊕	2	⊕	2	⊕	2	⊕
3		3		3		3	
4		4		4		4	
5		5		5		5	
6		6		6		6	
Conduit Label	Size	#					

Manhole II (Existing)

NORTH (Top)				NORTH EAST (Top)				SOUTH WEST (Top)				NORTH WEST (Top)			
A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D
1				1				1				1			
2				2				2				2			
3				3				3				3			
4				4				4				4			
5				5				5				5			
6				6				6				6			

Conduit Label	Size	# of Cables	COPPER		FIBER		To Mh/Bldg Pull string	Comments
			Size	Count	Size	Count		
NE1A	4"	4	016A	50		27	Pairs 5726-5775 from Moore to Grandstand	
NW1A	4"	2	016A	50		JJ	Pairs 5726-5775 from Moore to Grandstand	
NE1A	4"	4	016B	25		27	Pairs 5776-5800 from Moore to Concession	
NW1A	4"	2	016B	25		JJ	Pairs 5776-5800 from Moore to Concession	
SW1A	4"	1	016	400		X	Pairs 5401-5800 from Granoff to Moore	
NE1A	4"	4	016	400		27	Pairs 5401-5800 from Granoff to Moore	
NE1B	4"	3			F32 12C	27	8M/4S from Granoff to Grandstand	
NW1C	4"	1			F32 12C	JJ	8M/4S from Granoff to Grandstand	
SW3C	4"	1			F31 12C	X	8M/4S from Granoff to Moore	
NE1B	4"	3			F31 12C	27	8M/4S from Granoff to Moore	
SW2C	4"	1			X Y		1-18/2 Red Fire Alarm	
SW2D	4"	1			X		1-200	
NE1A	4"	4				27	1-200	
NE1B	4"	3				27 Y	1-18/2 Red Fire Alarm	

Manhole JJ (Existing)

NORTH (Top)				SOUTH EAST (Top)				SOUTH (Top)				SOUTH WEST (Top)			
A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D
1				1				1				1			
2				2				2				2			
3				3				3				3			
4				4				4				4			
5				5				5				5			
6				6				6				6			

Conduit Label	Size	# of Cables	COPPER		FIBER		To Mh/Bldg Pull string	Comments
			Size	Count	Size	Count		
SW1C	4"	2	016A	50		II	Pairs 5726-5775 from Moore to Grandstand	
SE1A	4"	3	016A	50		KK	Pairs 5726-5775 from Moore to Grandstand	
SW1C	4"	2	016B	25		II	Pairs 5776-5800 from Moore to Concession	
SE1A	4"	3	016B	25		KK	Pairs 5776-5800 from Moore to Concession	
SE1A	4"	3			F32 12C	KK	8M/4S from Granoff to Grandstand	
SW1A	4"	1			F32 12C	II	8M/4S from Granoff to Grandstand	

Manhole X (Existing)

NORTH EAST (Top)				EAST (Top)				SOUTH WEST (Top)				WEST (Top)			
A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D
1				1				1				1			
2				2				2				2			
3				3				3				3			
4				4				4				4			
5				5				5				5			
6				6				6				6			

Conduit Label	Size	# of Cables	COPPER		FIBER		To Mh/Bldg Pull string	Comments
			Size	Count	Size	Count		
SW2B	4"	3	016	400		W	Pairs 5401-5800 from Granoff to Moore	
NE1D	4"	1	016	400		II	Pairs 5401-5800 from Granoff to Moore	
SW2B	4"	3			F32 12C	W	8M/4S from Granoff to Grandstand	
NE3B	4"	2			F32 12C	II	8M/4S from Granoff to Grandstand	
SW2B	4"	3			F31 12C	W	8M/4S from Granoff to Moore	
NE3B	4"	2			F31 12C	II	8M/4S from Granoff to Moore	

Manhole KK (Existing)

NORTH WEST (Top)				NORTH EAST (Top)				SOUTH EAST (Top)				WEST (Top)			
A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D
1				1				1				1			
2				2				2				2			
3				3				3				3			
4				4				4				4			
5				5				5				5			
6				6				6				6			

Conduit Label	Size	# of Cables	COPPER		FIBER		To Mh/Bldg Pull string	Comments
			Size	Count	Size	Count		
NW1C	4"	3	016A	50		JJ	Pairs 5726-5775 from Moore to Grandstand	
NE1A	4"	2	016A	50		LL	Pairs 5726-5775 from Moore to Grandstand	
SE1A	4"	1	016B	25		28	Pairs 5776-5800 from Moore to Concession	
NW1C	4"	3	016B	25		JJ	Pairs 5776-5800 from Moore to Concession	
NW1C	4"	3			F32 12C	JJ	8M/4S from Granoff to Grandstand	
NE1A	4"	2			F32 12C	LL	8M/4S from Granoff to Grandstand	

Manhole LL (Existing)

NORTH (Top)				EAST (Top)				SOUTH (Top)				WEST (Top)			
A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D
1				1				1				1			
2				2				2				2			
3				3				3				3			
4				4				4				4			
5				5				5				5			
6				6				6				6			

Conduit Label	Size	# of Cables	COPPER		FIBER		To Mh/Bldg Pull string	Comments
			Size	Count	Size	Count		
S1D	4"	2	016A	50		KK	Pairs 5726-5775 from Moore to Grandstand	
E1B	3"	2	016A	50		39	Pairs 5726-5775 from Moore to Grandstand	
S1D	4"	2			F32 12C	KK	8M/4S from Granoff to Grandstand	
E1B	3"	2			F32 12C	39	8M/4S from Granoff to Grandstand	
							Note: Contains 2 existing electrical conduits and wiring	

Legend:

- = New conduit, New cables
- = No Telecommunications cables or fiber
- ⊕ = Reused and new Cables/Fiber
- ⊖ = Existing conduit, containing new cables
- Ⓡ = Existing conduit, containing reused cables

In "To Mh/Bldg" Column:
 Letters designate Manhole
 Numbers designate Buildings

Issued for Construction	07-01-93	Record Drawing	07-01-93
DATE	5-23-96	DATE	
PROJECT NAME	SOUTHERN CONNECTICUT STATE UNIVERSITY digital Network Integration Services Digital Equipment Corporation		
PROJECT NUMBER	39154	SCALE	N/C
DRAWING NO.	SMNHOLE2	SECTION	[SCSU]
FILE		SHEET	14 OF 15
CHECKED BY		DATE	
APPROVED BY		DATE	
REVISION	SOUTHERN CONNECTICUT STATE UNIVERSITY MANHOLES Third Section 1 of 2		

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Manhole DD (New)

A	B	C	D	E	F
1					
2					
3					
4					
5					
6					

A	B	C	D	E	F
1	●	○	○	○	
2		○	○	○	
3	○				
4					
5					
6					

A	B	C	D	E	F
1					
2					
3					
4					
5					
6					

A	B	C	D	E	F
1	●	○			
2	○				
3					
4					
5					
6					

Conduit Label	Size	# of Cables	COPPER		FIBER		To Mh/Bldg	Full string	Comments
			Size	Cable ID	Size	Cable ID			
NW2A	4"	1	O1	1200		26	-		Pairs 001-1200 from Granoff to splice in MhFF
NE2F	4"	1	O1	1200					Pairs 001-1200 from Granoff to splice in MhFF
NW1A	4"	3			F26	36C	26		24M/12S from Granoff to splice in Pine Rock Duplex A
NE1F	4"	1			F26	36C	EE		24M/12S from Granoff to splice in Pine Rock Duplex A
NW1B	4"	2	19	900			26		Pairs 6101-7000 from Granoff to Swing Bldg.
NE3B	4"	1	19	900					Pairs 6101-7000 from Granoff to Swing Bldg.
NW1A	4"	3			F46	12C	26		8M/4S from Granoff to Swing Bldg.
NE1B	4"	1			F46	12C			8M/4S from Granoff to Swing Bldg.
NW1A	4"	3							Emergency Phone
NW1B	4"	2							Emergency Phone

Manhole FF (New)

A	B	C	D	E	F
1	○				
2	●				
3					
4					
5					
6					

A	B	C	D	E	F
1	○				
2	○				
3	○				
4					
5					
6					

A	B	C	D	E	F
1					
2					
3					
4					
5					
6					

A	B	C	D	E	F
1	○				
2	○				
3					
4					
5					
6					

Conduit Label	Size	# of Cables	COPPER		FIBER		To Mh/Bldg	Full string	Comments
			Size	Cable ID	Size	Cable ID			
W2B	4"	1	O1	1200					Pairs 001-1200 from Granoff to splice in MhFF
E3A	4"	2	O1A	400			33		Pairs 001-400 from splice in MhFF to Pine Rock Apts.
E3A	4"	2	O1A1	400			33		Pairs 401-800 from splice in MhFF to Pine Rock Apts.
N2A	4"	5	O2	200			HH		Pairs 1001-1100 & 801-900 from splice in MhFF to Pine Rock Duplex C
E1A	4"	6	O4	100			34		Pairs 1101-1200 from splice in MhFF to Pine Rock Duplex A
W1B	4"	1			F26	36C	EE		24M/12S from Granoff to splice/terminations in Pine Rock Duplex A
E1A	4"	6			F26	36C	34		24M/12S from Granoff to splice/terminations in Pine Rock Duplex A
E2A	4"	1			F27	12C	33		8M/4S from to splice/terminations in Pine Rock Duplex A to Pine Rock Apts.
E1A	4"	6			F27	12C	34		8M/4S from splice/terminations in Pine Rock Duplex A to Pine Rock Apts.
E1A	4"	6			F28	12C	34		8M/4S from splice/terminations in Pine Rock Duplex A to Pine Rock Duplex B.
N2A	4"	5			F28	12C	HH		8M/4S from splice/terminations in Pine Rock Duplex A to Pine Rock Duplex B.
E1A	4"	6			F29	12C	34		8M/4S from splice/terminations in Pine Rock Duplex A to Pine Rock Duplex C.
N2A	4"	5			F29	12C	HH		8M/4S from splice/terminations in Pine Rock Duplex A to Pine Rock Duplex C.
E1A	4"	6			F30	12C	34		8M/4S from splice/terminations in Pine Rock Duplex A to Pine Rock Duplex D.
N2A	4"	5			F30	12C	HH		8M/4S from splice/terminations in Pine Rock Duplex A to Pine Rock Duplex D.
N2A	4"	5	O3	100			HH		Pairs 901-1000 from splice MhFF to Pine Rock D.

Manhole EE (New)

A	B	C	D	E	F
1					
2					
3					
4					
5					
6					

A	B	C	D	E	F
1	●				
2	●				
3					
4					
5					
6					

A	B	C	D	E	F
1					
2					
3					
4					
5					
6					

A	B	C	D	E	F
1	○	○			
2	○	○			
3					
4					
5					
6					

Conduit Label	Size	# of Cables	COPPER		FIBER		To Mh/Bldg	Full string	Comments
			Size	Cable ID	Size	Cable ID			
W1A	4"	2	O1	1200			DD		Pairs 001-1200 from Granoff to splice in MhFF
E2A	4"	1	O1	1200			FF		Pairs 001-1200 from Granoff to splice in MhFF
W1A	4"	2			F26	36C	DD		24M/12S from Granoff to splice/termination in Pine Rock Duplex A
E1A	4"	1			F26	36C	FF		24M/12S from Granoff to splice/termination in Pine Rock Duplex A

Manhole HH (New)

A	B	C	D	E	F
1	●				
2					
3					
4					
5					
6					

A	B	C	D	E	F
1	●				
2					
3					
4					
5					
6					

A	B	C	D	E	F
1	●				
2					
3					
4					
5					
6					

A	B	C	D	E	F
1					
2					
3					
4					
5					
6					

Conduit Label	Size	# of Cables	COPPER		FIBER		To Mh/Bldg	Full string	Comments
			Size	Cable ID	Size	Cable ID			
S1A	4"	5	O2	200			FF		Pairs 801-900 & 1001-1100 from splice in MhFF to Pine Rock Duplex C.
E1A	4"	3	O2	200			36		Pairs 801-900 & 1001-1000 from splice in MhFF to Pine Rock Duplex C.
S1A	4"	5	O3	100			FF		Pairs 901-1000 from splice in MhFF to Pine Rock Duplex D.
N1A	4"	2	O3	100			37		Pairs 901-1000 from splice in MhFF to Pine Rock Duplex D.
S1A	4"	5			F28	12C	FF		8M/4S from splice/termination in Pine Rock Duplex A to Pine Rock Duplex B.
E1A	4"	3			F28	12C	36		8M/4S from splice/termination in Pine Rock Duplex A to Pine Rock Duplex B.
S1A	4"	5			F29	12C	FF		8M/4S from splice/termination in Pine Rock Duplex A to Pine Rock Duplex C.
E1A	4"	3			F29	12C	36		8M/4S from splice/termination in Pine Rock Duplex A to Pine Rock Duplex C.
S1A	4"	5			F30	12C	FF		8M/4S from splice/termination in Pine Rock Duplex A to Pine Rock Duplex D.
N1A	4"	2			F30	12C	37		8M/4S from splice/termination in Pine Rock Duplex A to Pine Rock Duplex D.

Legend:

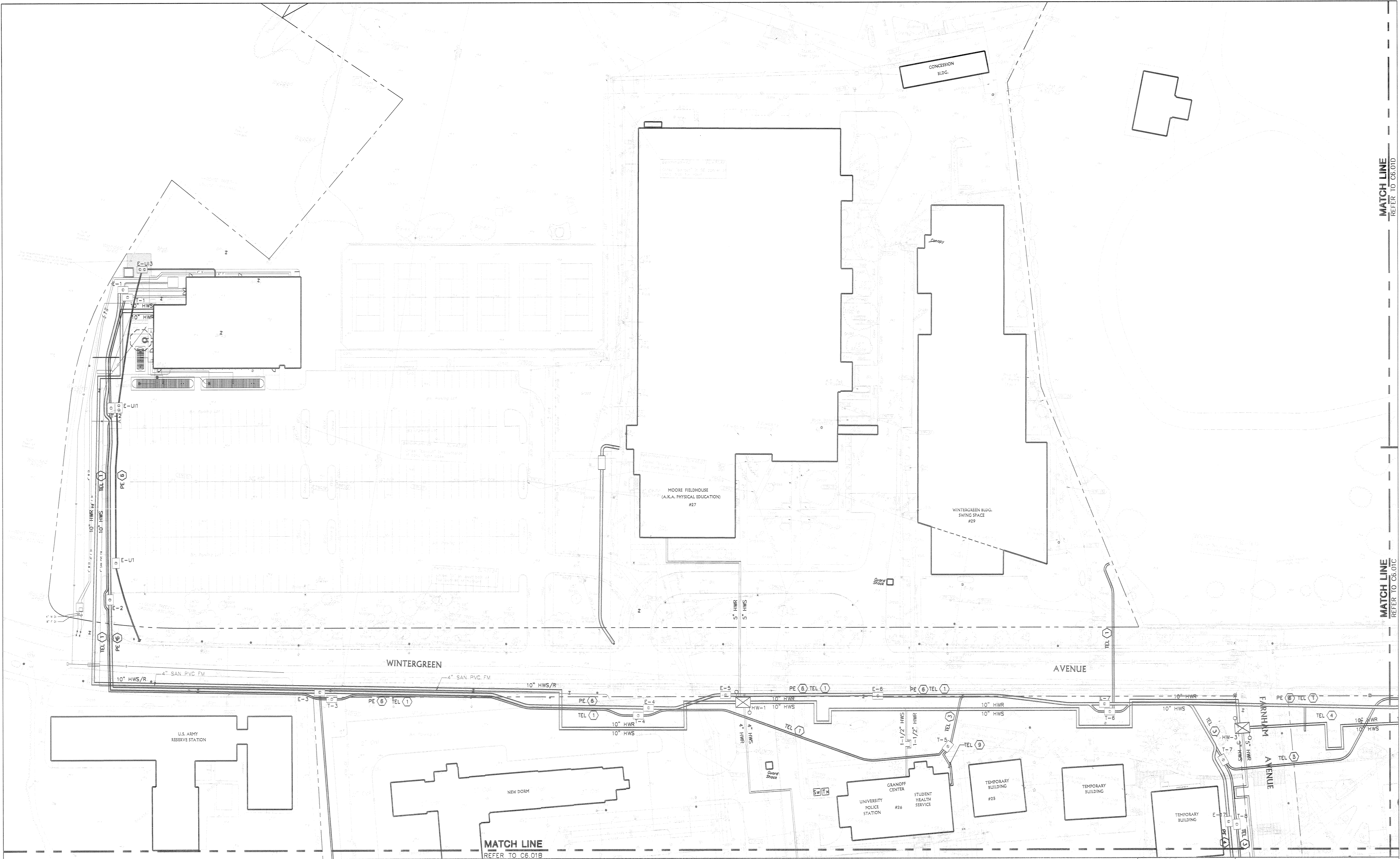
- = New conduit, New cables
- = No Telecommunications cables or fiber
- ⊕ = Reused and new Cables/Fiber
- ⊗ = Existing conduit, containing new cables
- ⊘ = Existing conduit, containing reused cables

In "To Mh/Bldg" Column:
 Letters designate Manhole
 Numbers designate Buildings

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Issued for Construction		07-01-93		Record Drawing		07-01-93	
NAME BY	DATE	NAME BY	DATE	SOUTHERN CONNECTICUT STATE UNIVERSITY			
WJM	5-22-96			digital			
CHECKED BY	DATE	APPROVED BY	DATE	Network Integration Services			
				Digital Equipment Corporation			
REVISIONS				LOCATION			
PJM 11/7/97				SOUTHERN CONNECTICUT STATE UNIVERSITY			
MANHOLES							
Third Section 2 of 2							
PROJECT NUMBER	SCALE	DRAWING NO.	FILE	SHEET	SHEET		
39154	N/C		SMHOLE1		15 of 15		

THESE PRINTS AND ELECTRONIC DATA ARE TO BE USED FOR DISTRIBUTION AND STATION LOCATION MANAGEMENT FOR THE CIVIL TELECOMMUNICATIONS PROGRAM ONLY. THESE INCLUDE ALL OTHER RELATED LISTS AND SUPPORTS OF FITNESS FOR A PARTICULAR PURPOSE. COPIES FROM THE ABOVE-MENTIONED...



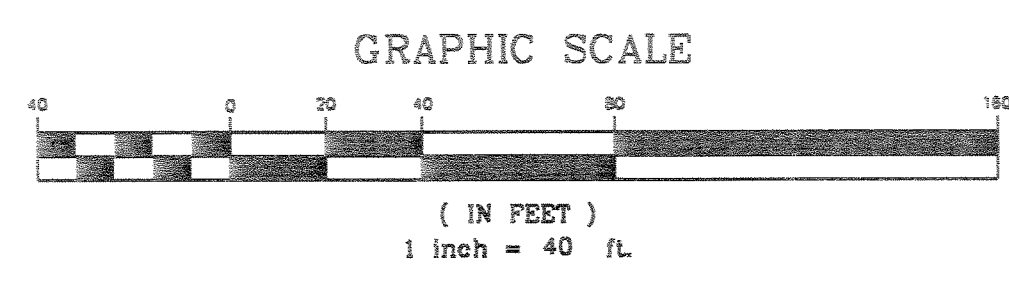
MATCH LINE
REFER TO C6.01D

MATCH LINE
REFER TO C6.01C

MATCH LINE
REFER TO C6.01B

GENERAL NOTE:
UNDERGROUND UTILITIES HAVE BEEN COMPILED AND LOCATIONS BY CONTRACTOR AS-BUILTS AND MANUFACTURER'S SHOP DRAWING. BVHIS, INC. TAKES NO RESPONSIBILITY FOR SUBSEQUENT ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED INTO THIS PLAN AS A RESULT. ADDITIONALLY, OTHER SUCH FEATURES MAY EXIST ON THE SITE, THE EXISTENCE OF WHICH ARE UNKNOWN TO BVHIS, INC. THE SIZE LOCATION AND EXISTENCE OF ALL SUCH FEATURES MUST BE FIELD VERIFIED BY THE APPROPRIATE AUTHORITIES PRIOR TO CONSTRUCTION. CONTACT THE FACILITIES MANAGEMENT OFFICE 48 HOURS PRIOR TO ANY EXCAVATION.

CONDUIT SCHEDULE		
① 4-4" PVC CONDUITS ENCASED IN CONCRETE	⑤ 4-5" PVC CONDUITS ENCASED IN CONCRETE	⑨ 12-4" PVC CONDUITS ENCASED IN CONCRETE
② 5-4" PVC CONDUITS ENCASED IN CONCRETE	⑥ 6-5" PVC CONDUITS ENCASED IN CONCRETE	⑩ 10-5" PVC CONDUITS ENCASED IN CONCRETE
③ 8-4" PVC CONDUITS ENCASED IN CONCRETE	⑦ 8-5" PVC CONDUITS ENCASED IN CONCRETE	
④ 2-5" PVC CONDUITS ENCASED IN CONCRETE	⑧ 12-5" PVC CONDUITS ENCASED IN CONCRETE	



AS-BUILT DRAWINGS
09-05-06

DRAWING TITLE SITE UTILITIES PLAN	
REVISIONS	
MARK	DESCRIPTION

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

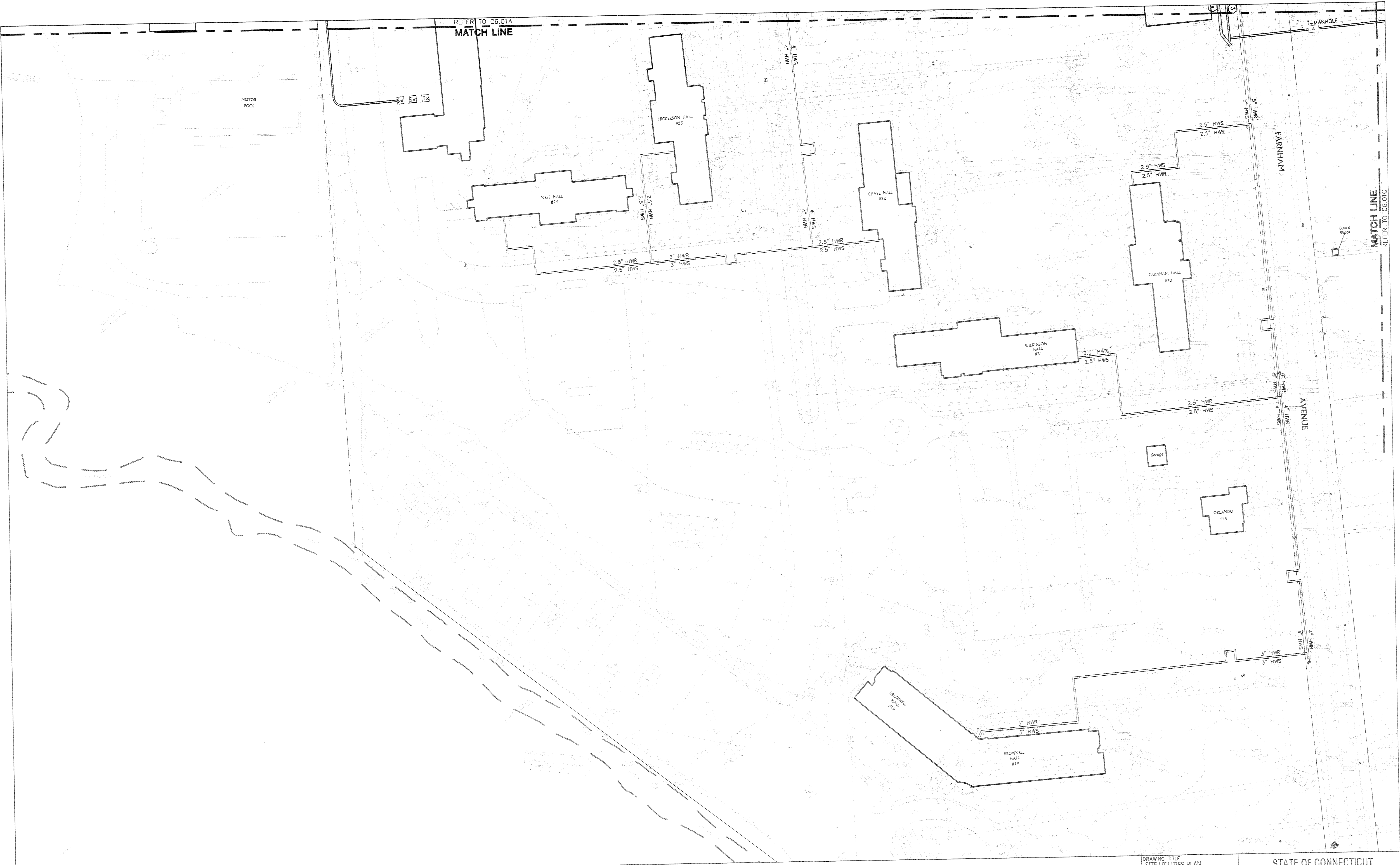
DRAWINGS PREPARED BY: BVHIS

PROJECT NAME: S.O.S.U. NEW HAVEN, CT. NEW BOILER PLANT AND INFRASTRUCTURE IMPROVEMENTS

DATE: 01-27-06
SCALE: 1" = 40'

DRAWN BY: SJP
APPROVED BY: AV
DRAWING NO. C6.01A

PROJECT NO. BI-RS-218

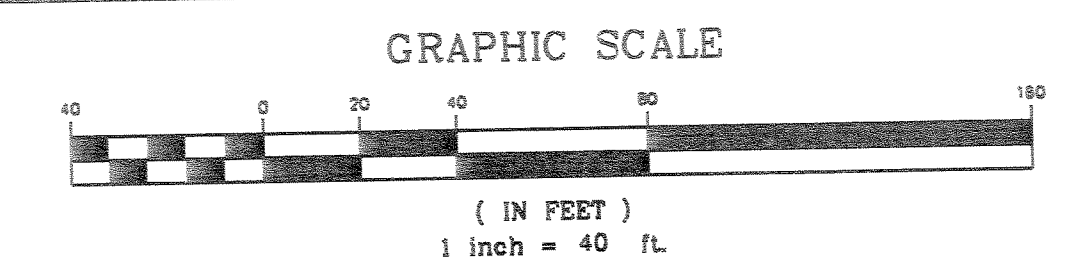


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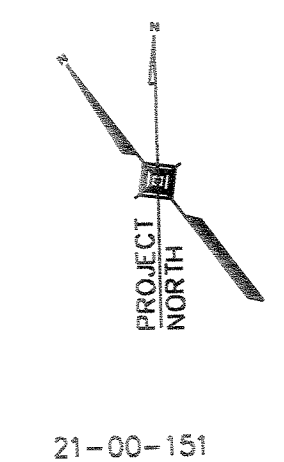
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CONDUIT SCHEDULE		
① 4-4" PVC CONDUITS ENCASED IN CONCRETE	⑤ 4-5" PVC CONDUITS ENCASED IN CONCRETE	⑨ 12-4" PVC CONDUITS ENCASED IN CONCRETE
② 5-4" PVC CONDUITS ENCASED IN CONCRETE	⑥ 6-5" PVC CONDUITS ENCASED IN CONCRETE	⑩ 10-5" PVC CONDUITS ENCASED IN CONCRETE
③ 8-4" PVC CONDUITS ENCASED IN CONCRETE	⑦ 8-5" PVC CONDUITS ENCASED IN CONCRETE	
④ 2-5" PVC CONDUITS ENCASED IN CONCRETE	⑧ 12-5" PVC CONDUITS ENCASED IN CONCRETE	

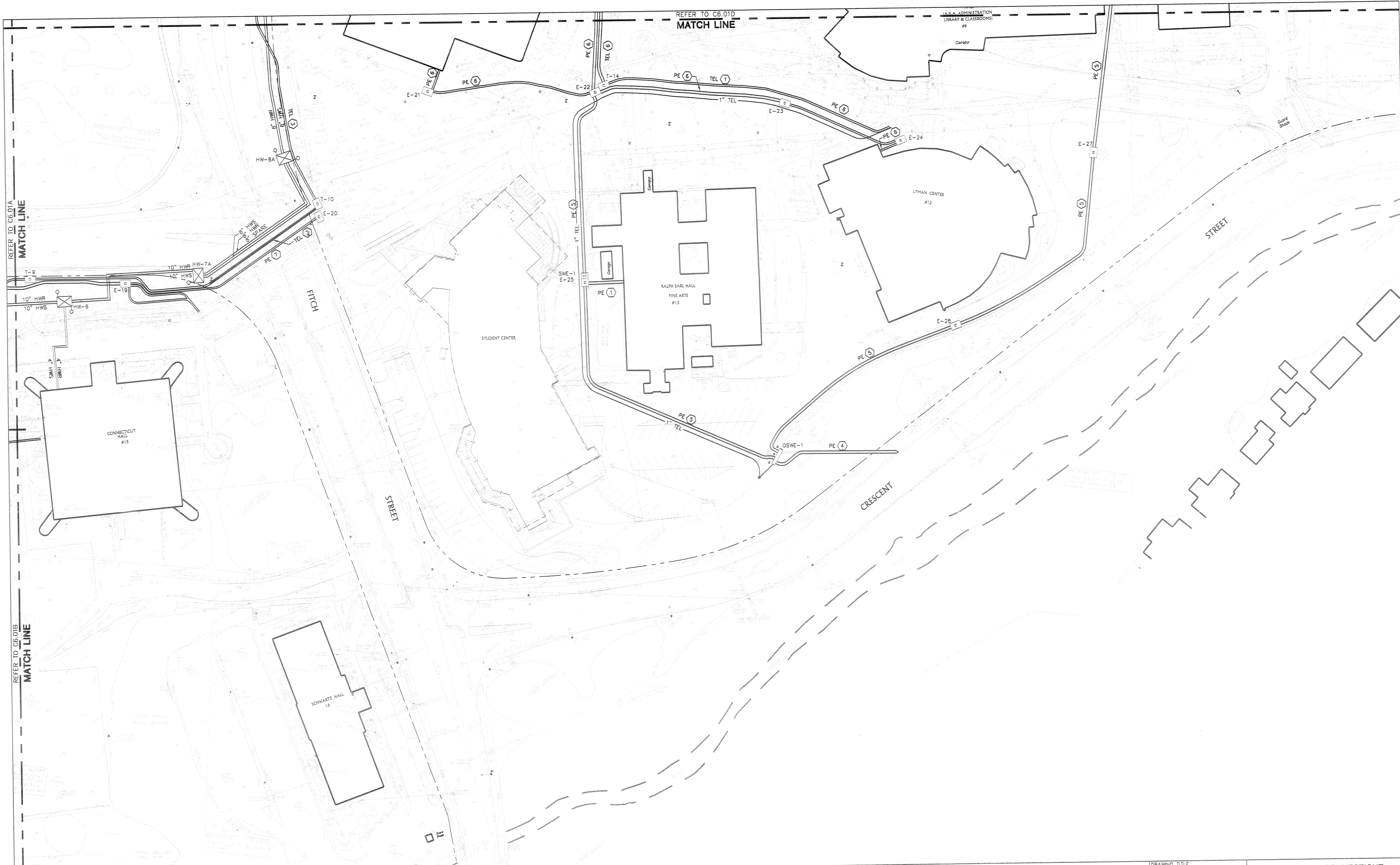


AS-BUILT DRAWINGS
09-05-06



21-00-151

DRAWING TITLE SITE UTILITIES PLAN		STATE OF CONNECTICUT DEPARTMENT OF PUBLIC WORKS	
REVISIONS			
MARK	DATE	DESCRIPTION	
DRAWINGS PREPARED BY:		DATE: 01-27-06	
PROJECT NAME: S.C.S.U. NEW HAVEN, CT. NEW BOILER PLANT AND INFRASTRUCTURE IMPROVEMENTS		SCALE: 1" = 40'	
PROJECT NO.: BI-RS-218		DRAWN BY: SJP	
		APPROVED BY: AV	
		DRAWING NO.: C6.01B	



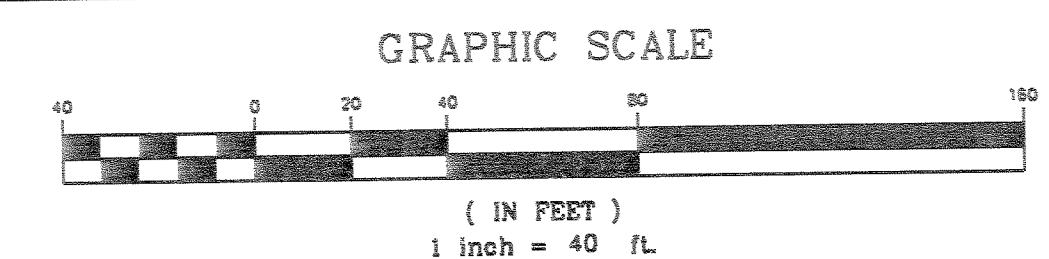
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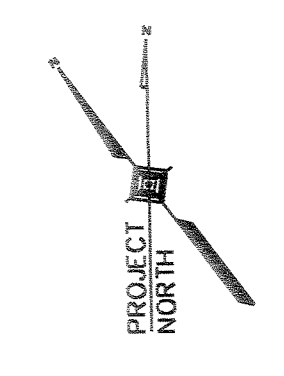
REFER TO C6.01D
MATCH LINE

GENERAL NOTE:
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CONDUIT SCHEDULE		
① 4-4" PVC CONDUITS ENCASED IN CONCRETE	⑤ 4-5" PVC CONDUITS ENCASED IN CONCRETE	⑨ 12-4" PVC CONDUITS ENCASED IN CONCRETE
② 5-4" PVC CONDUITS ENCASED IN CONCRETE	⑥ 6-5" PVC CONDUITS ENCASED IN CONCRETE	⑩ 10-5" PVC CONDUITS ENCASED IN CONCRETE
③ 8-4" PVC CONDUITS ENCASED IN CONCRETE	⑦ 8-5" PVC CONDUITS ENCASED IN CONCRETE	
④ 2-5" PVC CONDUITS ENCASED IN CONCRETE	⑧ 12-5" PVC CONDUITS ENCASED IN CONCRETE	



AS-BUILT DRAWINGS
09-05-06



21-00-151

DRAWING TITLE	
SITE UTILITIES PLAN	
REVISIONS	
MARK	DATE

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

DRAWINGS PREPARED BY: BVHIS

PROJECT NAME: S.O.S.U. NEW HAVEN, CT. NEW BOILER PLANT AND INFRASTRUCTURE IMPROVEMENTS

PROJECT NO.: BI-RS-218

DATE: 01-27-06

SCALE: 1" = 40'

DRAWN BY: SJP

APPROVED BY: AV

DRAWING NO.: C6.01C

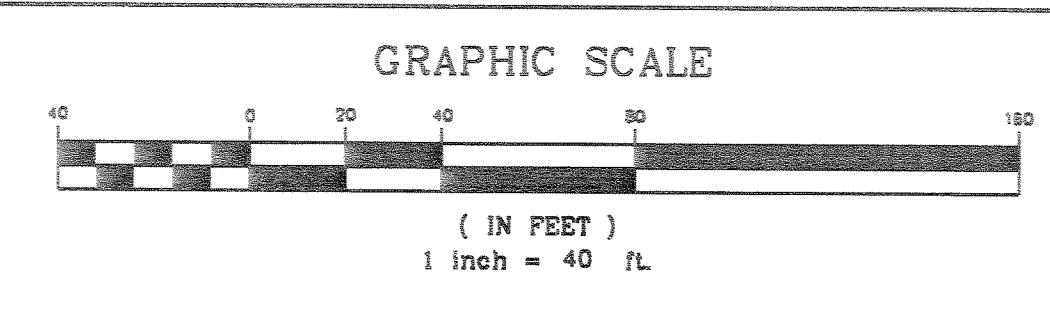


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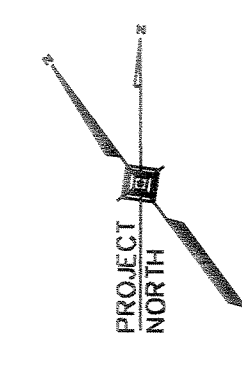
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GENERAL NOTE:
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② 5-4" PVC CONDUITS ENCASED IN CONCRETE	⑥ 6-5" PVC CONDUITS ENCASED IN CONCRETE	⑩ 10-5" PVC CONDUITS ENCASED IN CONCRETE
③ 8-4" PVC CONDUITS ENCASED IN CONCRETE	⑦ 8-5" PVC CONDUITS ENCASED IN CONCRETE	
④ 2-5" PVC CONDUITS ENCASED IN CONCRETE	⑧ 12-5" PVC CONDUITS ENCASED IN CONCRETE	



AS-BUILT DRAWINGS
09-05-06



DRAWING TITLE SITE UTILITIES PLAN		
REVISIONS		
MARK	DATE	DESCRIPTION

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

DRAWINGS PREPARED BY: BVH

PROJECT NAME: S.C.S.U. NEW HAVEN, CT. NEW BOILER PLANT AND INFRASTRUCTURE IMPROVEMENTS

DATE: 01-27-06

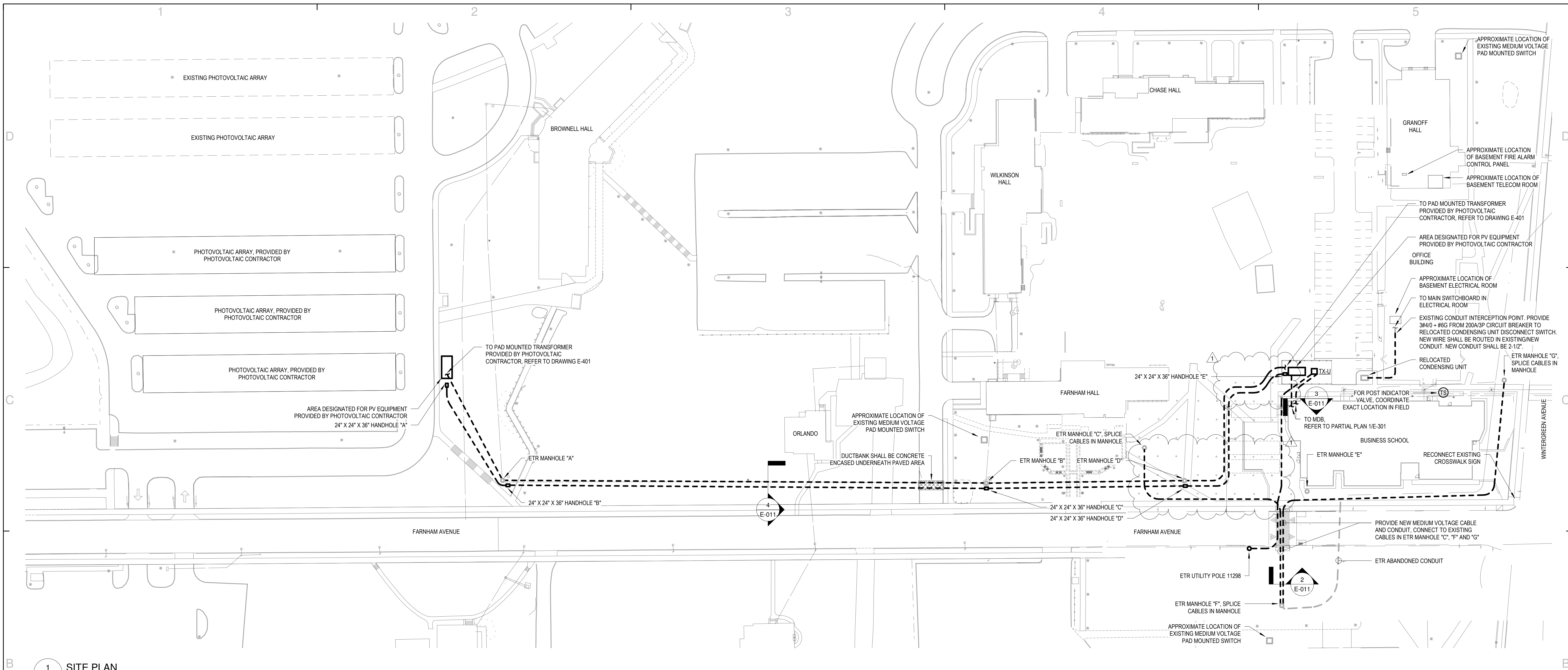
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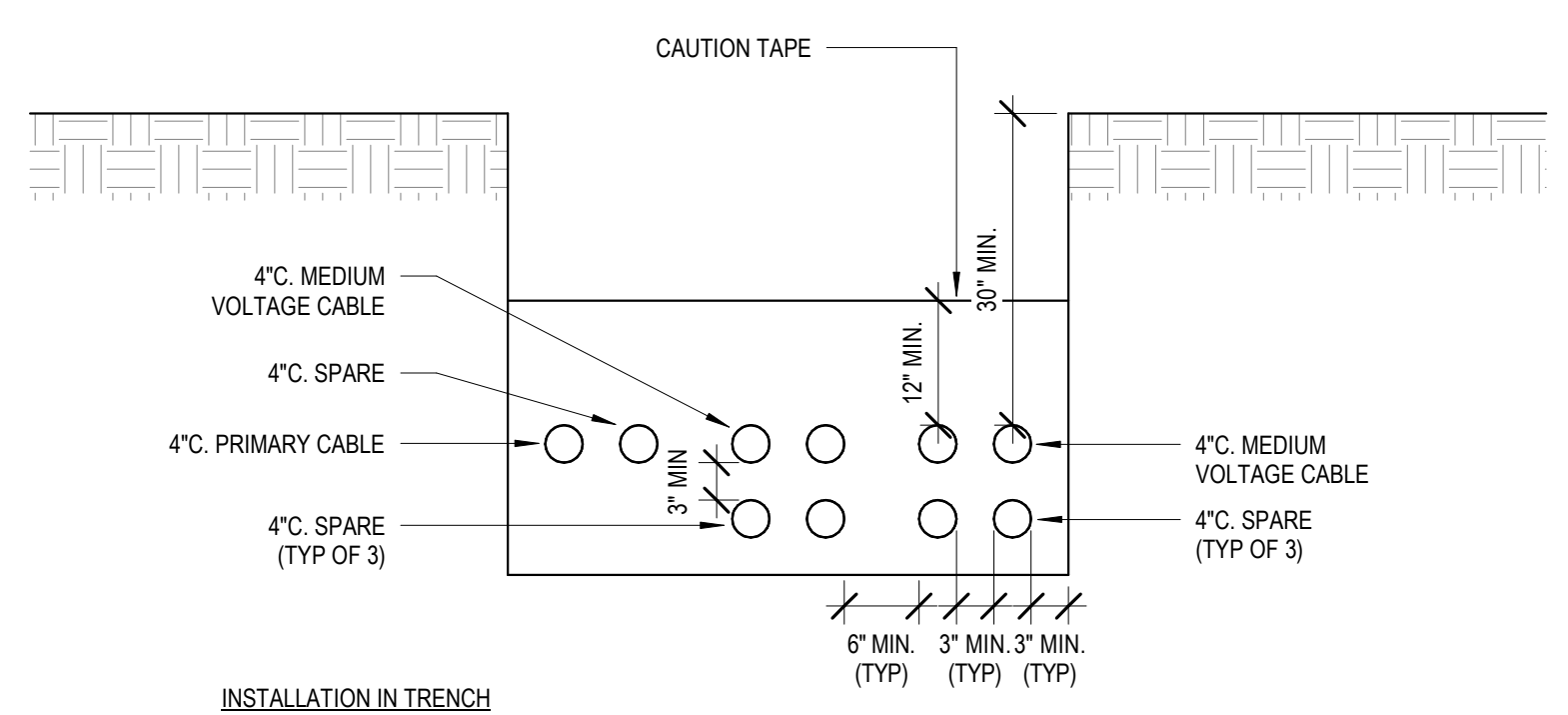
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DRAWING NO. C6.01D

PROJECT NO. BI-RS-218

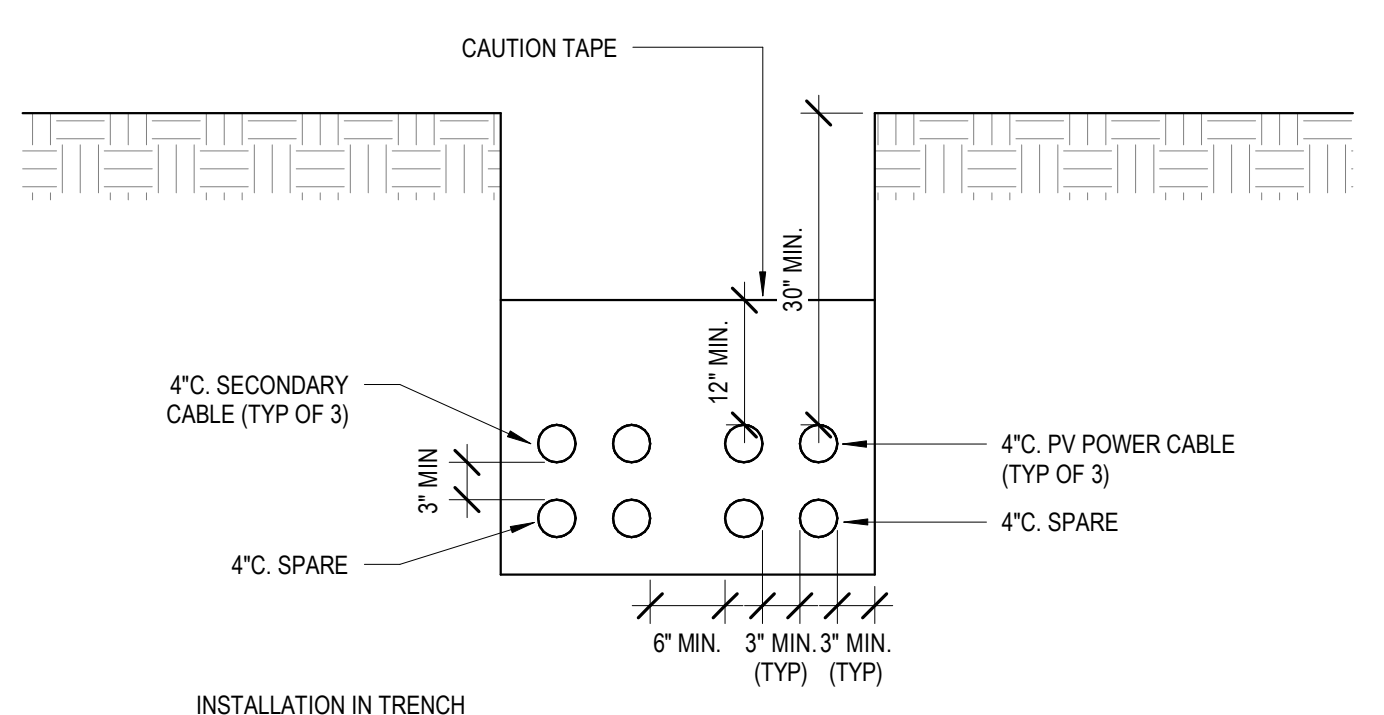


1 SITE PLAN
E-011 SCALE: 1" = 50'-0"



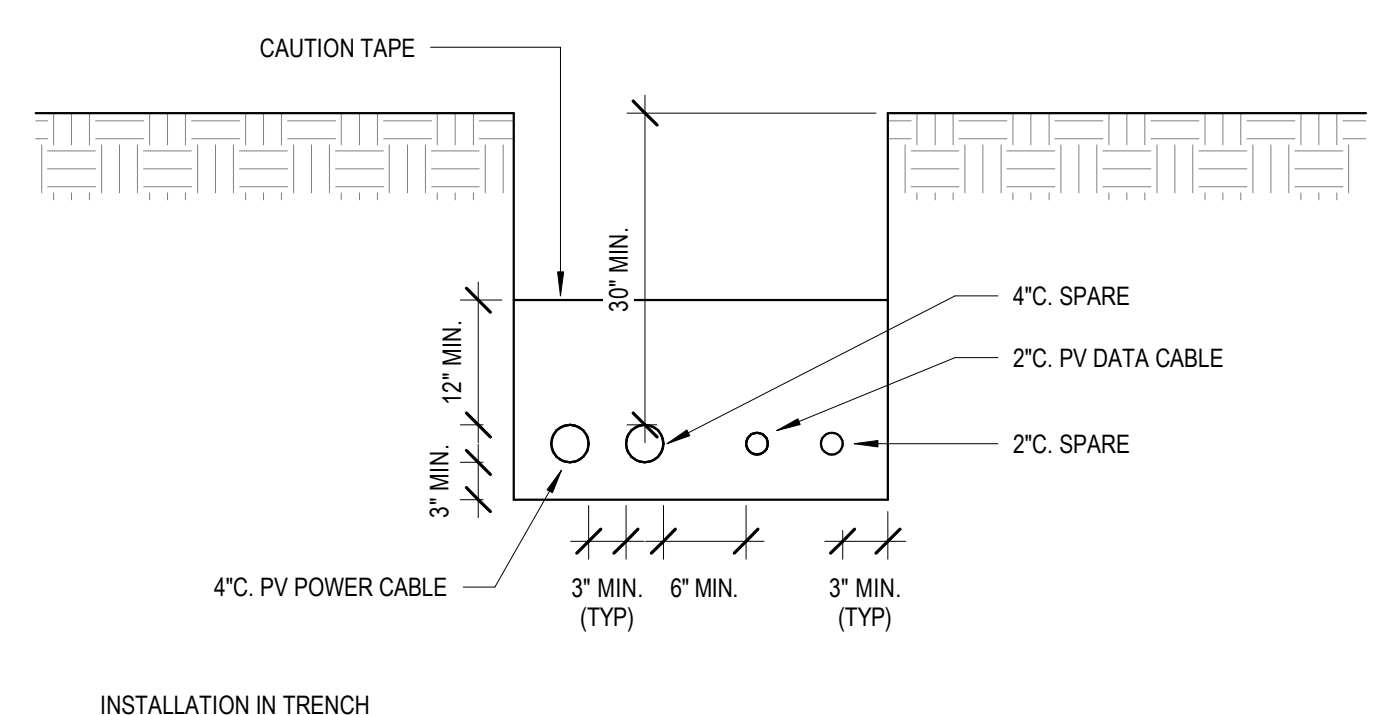
- INSTALLATION IN TRENCH**
- ALL CONDUIT SHALL BE INSTALLED AT A DEPTH OF AT LEAST 30" IN THE FOLLOWING ORDER:
1. ENSURE THAT THE BOTTOM OF THE TRENCH IS WELL-TAMPED AND FREE OF ROCKS.
 2. INSTALL THE CONDUIT AND SUPPORTS. REFER TO SPECIFICATIONS FOR CONDUIT MATERIAL.
 3. PROVIDE SPACERS FOR MORE THAN 1 TIER OF CONDUITS.
 4. INSTALL OTHER UTILITY CABLES OR CONDUITS IN THE TRENCH.
 5. PLACE CONCRETE WHEN CROSSING ROADWAY, BACKFILL WITH 12 INCHES OF SAND ELSEWHERE.
 6. INSTALL CABLE WARNING TAPE 12 INCHES OVER THE CONDUIT.
 7. FILL IN THE REMAINDER OF THE TRENCH WITH NATIVE BACKFILL.

2 PRIMARY AND MEDIUM VOLTAGE CONDUIT TRENCH DETAIL
E-011 SCALE: NONE



- INSTALLATION IN TRENCH**
- ALL CONDUIT SHALL BE INSTALLED AT A DEPTH OF AT LEAST 30" IN THE FOLLOWING ORDER:
1. ENSURE THAT THE BOTTOM OF THE TRENCH IS WELL-TAMPED AND FREE OF ROCKS.
 2. INSTALL THE CONDUIT AND SUPPORTS. REFER TO SPECIFICATIONS FOR CONDUIT MATERIAL.
 3. PROVIDE SPACERS FOR MORE THAN 1 TIER OF CONDUITS.
 4. INSTALL OTHER UTILITY CABLES OR CONDUITS IN THE TRENCH.
 5. BACKFILL WITH 12 INCHES OF SAND.
 6. INSTALL CABLE WARNING TAPE 12 INCHES OVER THE CONDUIT.
 7. FILL IN THE REMAINDER OF THE TRENCH WITH NATIVE BACKFILL.

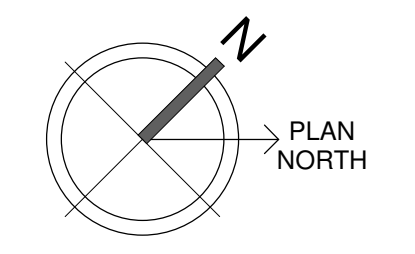
3 SECONDARY AND PHOTOVOLTAIC CONDUIT TRENCH DETAIL
E-011 SCALE: NONE



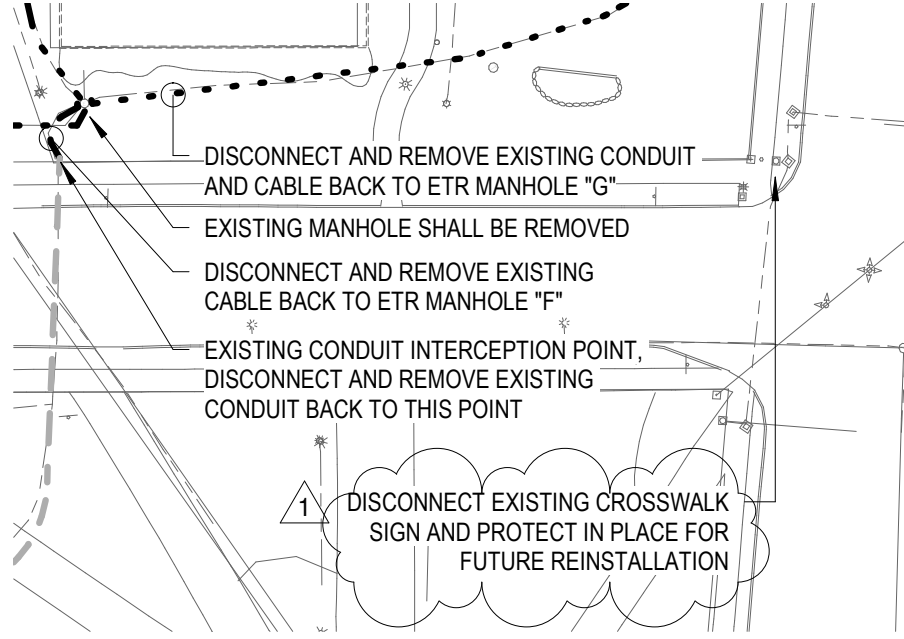
- INSTALLATION IN TRENCH**
- ALL CONDUIT SHALL BE INSTALLED AT A DEPTH OF AT LEAST 30" IN THE FOLLOWING ORDER:
1. ENSURE THAT THE BOTTOM OF THE TRENCH IS WELL-TAMPED AND FREE OF ROCKS.
 2. INSTALL THE CONDUIT AND SUPPORTS. REFER TO SPECIFICATIONS FOR CONDUIT MATERIAL.
 3. PROVIDE SPACERS FOR MORE THAN 1 TIER OF CONDUITS.
 4. INSTALL OTHER UTILITY CABLES OR CONDUITS IN THE TRENCH.
 5. BACKFILL WITH 12 INCHES OF SAND, U.O.N.
 6. INSTALL CABLE WARNING TAPE 12 INCHES OVER THE CONDUIT.
 7. FILL IN THE REMAINDER OF THE TRENCH WITH NATIVE BACKFILL.

4 PHOTOVOLTAIC CONDUIT TRENCH DETAIL
E-011 SCALE: NONE

- NOTES**
1. SITE BACKGROUND IS BASED ON SEVERAL DRAWINGS PROVIDED BY SCHOOL, IN LIEU OF SURVEY OF ENTIRE AREA. CONTRACTOR SHALL FIELD VERIFY CONDITIONS FOR ACCURACY.
 2. EXCEPT WHERE INDICATED ON DRAWING E-401, ALL NEW MEDIUM VOLTAGE CABLE SHALL BE 3#4/0 (15KV) + #4G (600V) IN 4" (±3) 4" SPARE C.
 3. PROVIDE CONDUITS FOR BLUE PHONES AS INDICATED ON DRAWING IT-011.
 4. COORDINATE DUCTBANK ROUTINGS TO AVOID TREE PROTECTION AREAS. REFER TO DRAWING L-101.



Drawing Title SITE PLAN - ELECTRICAL		STATE OF CONNECTICUT DEPARTMENT OF ADMINISTRATIVE SERVICES	
Professional Seal	REVISIONS	Drawing prepared by: KOHLER RONAN ENGINEERS 93 Lake Avenue, Danbury, CT 06810 203.778.1017 F 203.778.1018 www.kohleronan.com	Date: 12/19/2020
	Mark	Description	Scale: As indicated
	1	3/16/21 Addendum #1 100% CONSTRUCTION DOCUMENTS	Drawn By: CC Approved By: RM Drawing No.: Project: BUSINESS SCHOOL INSTRUCTIONAL FACILITY 10 WINTERGREEN AVENUE NEW HAVEN, CT Project No.: B1-RS-337
		CAD no.: 100-0001-RS337-Business School-B1-RS-337_MEP_R19.dwg	E-011



1 SITE PLAN
 B-SKE-01 SCALE: 1" = 50'-0"

93 Lake Avenue, Danbury, CT 06810
 203.778.1017 F 203.778.1018
 171 Madison Avenue,
 New York, NY 10016
 212.695.2422 F 212.695.2423
 www.kohlerroman.com
 E-mail krcree@kohlerroman.com



REVISED SITE PLAN - ADDENDUM 01
 BUSINESS SCHOOL INSTRUCTIONAL FACILITY
 B1-RS-337
 10 WINTERGREEN AVENUE
 NEW HAVEN, CT

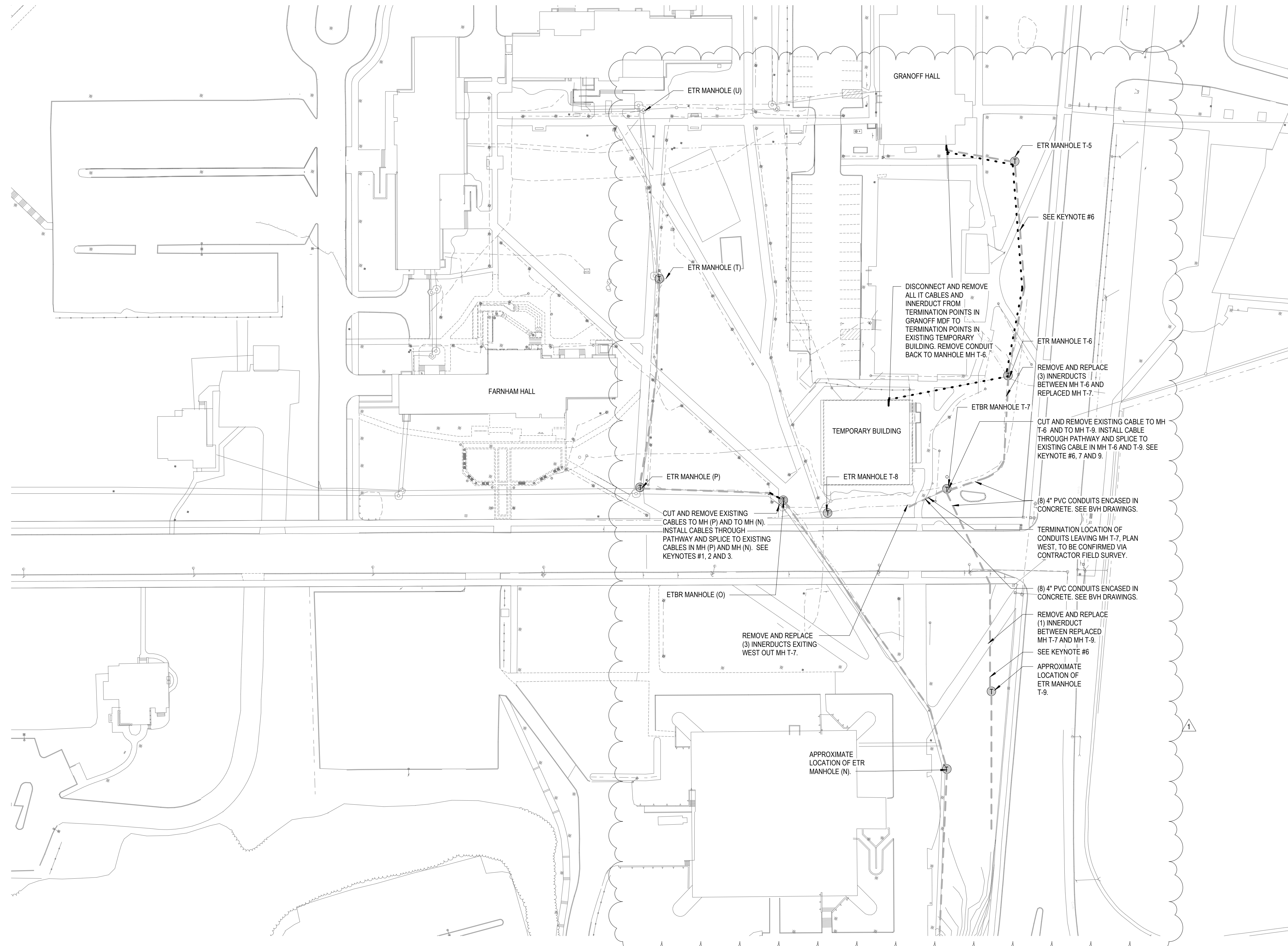
Date: 03/16/21

B-SKE-01

Reference Dwg: E-010

NOTES

1. INFORMATION PROVIDED ON THESE DRAWINGS IS BASED ON DIGITAL EQUIPMENT CORPORATION DRAWINGS (DEC) AND DRAWINGS BY BVH, PROVIDED BY SCSU, LOCATED IN DIVISION 501000 AND SURFACE SITE SURVEY AND SUBSEQUENT SURVEY PERFORMED BY MERCURY COMMUNICATIONS. REFERENCE DEC AND BVH DOCUMENTS FOR FURTHER INFORMATION ON CONDUITS, CABLES AND PATHWAYS BETWEEN BUILDINGS AND MANHOLES. CONTRACTOR SHALL FIELD VERIFY CONDITIONS FOR ACCURACY.
2. SEPARATE FIBER PATHWAYS PROVIDE A REDUNDANT FIBER LINK FROM GRANOFF TO ENGELMAN. ONE PATHWAY ROUTES SOUTHWEST FROM GRANOFF THROUGH MH U TO MH P TERMINATING IN ENGELMAN MDF. THE SECOND PATHWAY ROUTES SOUTHEAST FROM GRANOFF THROUGH MH T-5 TO MH T-9 TERMINATING IN ENGELMAN MDF. CONTRACTOR SHALL WORK ONE FIBER PATHWAY AT A TIME TO ENSURE SERVICE IS NOT DISRUPTED.
3. SERVICE DISRUPTION TO SCSU SHALL BE AS MINIMAL AS POSSIBLE. CONTRACTOR SHALL SUBMIT A PHASING AND LOGISTICS PLAN TO REROUTE LOW VOLTAGE DUCTBANKS AND CABLING TO SCSU FOR REVIEW. CONTRACTOR SHALL COORDINATE SCHEDULE OF SHUTDOWN, REMOVAL AND INSTALLATION OF MANHOLES, CONDUITS AND CABLES WITH OWNER PRIOR TO PROCEEDING WITH WORK. CONTRACTOR MAY RECOMMEND AN ALTERNATE PLAN TO SCSU FOR REVIEW AND APPROVAL.
4. CONTRACTOR SHALL FIELD SURVEY TO IDENTIFY AND CONFIRM TYPE, QUANTITY AND TERMINATION ENDPOINTS FOR ALL CABLES PASSING THROUGH MANHOLES (O) AND T-7.
5. CONTRACTOR SHALL FIELD SURVEY TO IDENTIFY AND CONFIRM TYPE, QUANTITY AND TERMINATION ENDPOINTS FOR ALL CABLES LEAVING MANHOLE T-7 PLAN SOUTHWEST TO DETERMINE FINAL CUT AND SPLICE LOCATIONS.
6. ALL CABLE IS OUTSIDE PLANT RATED UNLESS OTHERWISE NOTED.
7. WHERE CONDUITS ARE REMOVED FROM MANHOLE, INFILL VOIDS WITH HYDRAULIC CEMENT (TYPICAL).
8. REFER TO IT-011 FOR ADDITIONAL SCOPE OF WORK.

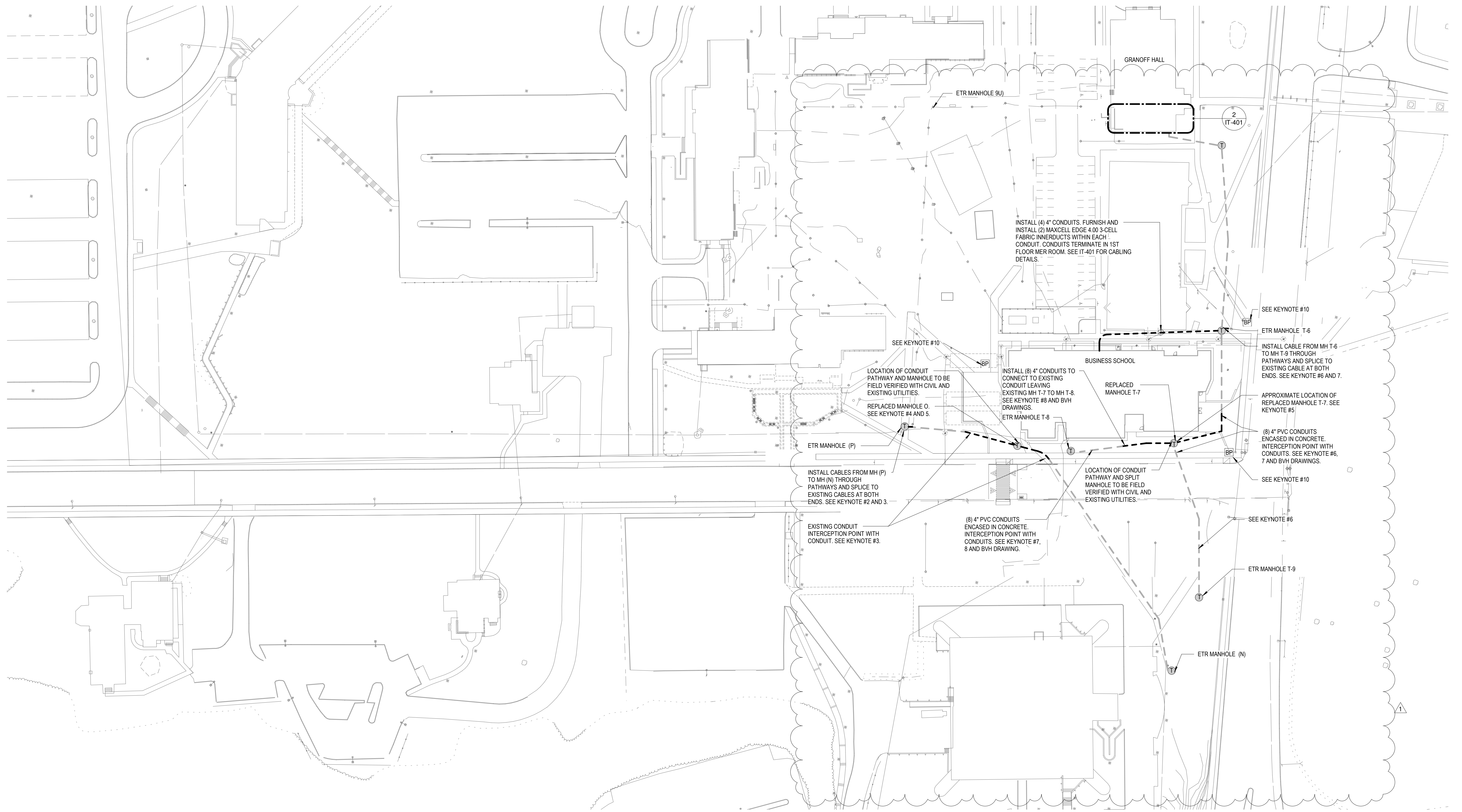


1 EXISTING SITE PLAN
IT-010 SCALE: 1" = 50'-0"

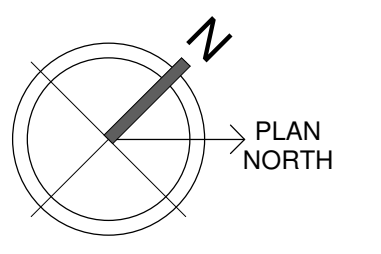
KEYNOTES

1. CABLES ROUTING FROM MH O TO MH N: (1) 12-STRAND HYBRID FIBER CABLE, (1) 24-STRAND HYBRID FIBER CABLE, (1) 36-STRAND HYBRID FIBER CABLE AND (1) 300-PAIR CABLE ROUTE FROM GRANOFF TO ENGELMAN (1) 12-STRAND HYBRID FIBER CABLE AND, (2) 50-PAIR COPPER CABLES ROUTE FROM GRANOFF TO CONNECTICUT HALL.
2. CABLES ROUTING FROM MH O TO MH P: (1) 12-STRAND HYBRID FIBER CABLE, (1) 24-STRAND HYBRID FIBER CABLE, (1) 36-STRAND HYBRID FIBER CABLE AND (1) 300-PAIR COPPER CABLE ROUTE FROM GRANOFF TO CONNECTICUT HALL.
3. MANHOLE TO REPLACE ETRB MH O SHALL BE INSTALLED FIRST. THEN INSTALL CONDUITS THAT WILL INTERCEPT EXISTING CONDUITS FROM ETRB MH O TO MH P AND ETRB MH O TO MH N. CABLES FROM MH P THROUGH ETRB MH O TO MH N SHALL BE REMOVED BY EMPTYING ONE CONDUIT DUCT AT A TIME. REROUTED CONDUIT SHALL BE CONNECTED TO EXISTING CONDUIT, IN BOTH DIRECTIONS, AT INTERCEPTION POINTS. THE SAME QUANTITY AND TYPE OF CABLE REMOVED FROM CONDUIT DUCT SHALL BE INSTALLED THROUGH CONDUIT PATHWAY TO MH P AND MH N. CABLE SHALL BE SPLICED IN MH P AND MH N. EACH CABLE MUST BE TESTED AND VERIFIED THAT SERVICE HAS BEEN RESTORED BEFORE NEXT CONDUIT AND CABLE(S) CAN BE WORKED ON.
4. ETRB MANHOLE BECOMES REPLACED MH O. REFER TO DEC DRAWINGS FOR ADDITIONAL INFORMATION ON CONDUITS, CABLES AND PATHWAYS.
5. MANHOLE SPECIFICATION: UTILITY MANHOLE 6' x 8' x 6' INSIDE DIAMETER. CONCRETE 5000 PSI, 28 DAYS. REINFORCING STEEL CONFORMS TO LATEST ASTM A615 AND A82 OR A185 SPECS, H-20 DESIGN LOADING PER AASHTO HS-20-44, BUTYL RUBBER JOINT SEALANT CONFORMS TO LATEST ASTM C990-91 SPEC, FED SPEC SS-S-210 (210A), AND AASHTO M-1988. PROVIDE 30" STEEL MANHOLE COVER AND RISER FOR ACCESS. CONTRACTOR TO CONFIRM SIZE AND LOCATION OF KNOCKOUTS BASED ON FIELD CONDITIONS AND MATCHING EXISTING CONDUIT DEPTHS.
6. CABLE ROUTING FROM MH T-6 THROUGH MH T-7 TO MH T-9: (1) 48-STRAND SINGLE MODE FIBER FROM GRANOFF TO ENGELMAN. THE INTENT IS TO FIRST INSTALL A CONCRETE MANHOLE WHICH WILL REPLACE ETRB MH T-7. EXCAVATE BELOW EXISTING CONDUITS JUST SOUTH OF ETRB MH T-7 TO INTERCEPT (8) EXISTING CONDUITS ROUTING TO MH T-9. INSTALL THE LOWER HALF OF MANHOLE UNDER EXISTING CONDUITS. INTERCEPT EXISTING EMPTY CONDUITS AT INTERCEPTION POINTS AND CONNECT SAME QUANTITY OF CONDUITS TO MANHOLE. INSTALL 48-STRAND SINGLE MODE FIBER THROUGH PATHWAY THAT ROUTES THROUGH MANHOLE. CUT EXISTING 48-STRAND FIBER IN MH T-7 AND PULL BACK TO MH T-6 AND MH T-9. SPLICE 48-STRAND FIBER TO EXISTING CABLE IN MH T-6 AND T-9. CABLE MUST BE TESTED AND VERIFIED THAT SERVICE HAS BEEN RESTORED BETWEEN GRANOFF AND ENGELMAN. CUT OUT EXISTING EMPTY CONDUIT ABOVE MANHOLE. INSTALL TOP HALF OF MANHOLE. MANHOLE BECOMES MH T-7.
7. IF SURVEY IDENTIFIES THAT THERE IS CABLE LEAVING ETRB MH T-7 WEST, THE SAME PROCESS SHALL BE FOLLOWED SPICING IDENTIFIED CABLE(S) IN MANHOLES UPSTREAM AND DOWNSTREAM TO ETRB MH T-7.
8. REMOVE MANHOLE AND ALL EXISTING VACATED CONDUITS AFTER REPLACED MANHOLES ARE INSTALLED.
9. PROVIDE (2) OSP RATED CAT 6 CABLES, (1) FOR PHONE AND (1) FOR CAMERA. TERMINATE CABLES ON RJ45 MALE PLUGS AT OUTLET END. TERMINATE CABLES IN WALL MOUNT BETSURGE SUPPRESSION BLOCKS IN MER 124 ON THE 1ST FLOOR OF SCSU BUSINESS SCHOOL INSTRUCTIONAL FACILITY. CONTRACTOR TO INSTALL INDOOR/OUTDOOR PLENUM RATED CABLE. INSTALL CABLE IN (1) 2" CONDUIT BACK TO MER 124. REFER TO IT-002 FOR CONDUIT REQUIREMENTS. INSTALL 1 POE EXTENDER KIT PER CAT 6 CABLE. PANDUIT POEKIT-NP OR EQUAL.
10. PROVIDE (2) OSP RATED CAT 6 CABLES, (1) FOR PHONE AND (1) FOR CAMERA. TERMINATE CABLES ON RJ45 MALE PLUGS AT OUTLET END. TERMINATE CABLES IN WALL MOUNT BETSURGE SUPPRESSION BLOCKS IN MER 124 ON THE 1ST FLOOR OF SCSU BUSINESS SCHOOL INSTRUCTIONAL FACILITY. CONTRACTOR TO INSTALL INDOOR/OUTDOOR PLENUM RATED CABLE. INSTALL CABLE IN (1) 2" CONDUIT BACK TO MER 124. REFER TO IT-002 FOR CONDUIT REQUIREMENTS. INSTALL 1 POE EXTENDER KIT PER CAT 6 CABLE. PANDUIT POEKIT-NP OR EQUAL.

Drawing Title EXISTING SITE PLAN - IT		STATE OF CONNECTICUT DEPARTMENT OF ADMINISTRATIVE SERVICES	
Professional Seal	REVISIONS	Drawing prepared by: KOHLER RONAN ENGINEERS 93 Lake Avenue, Danbury, CT 06810 203.778.1017 F 203.778.1018 www.kohleronan.com	Date: 12/19/2020
	Mark	100% CONSTRUCTION DOCUMENTS	Scale: As indicated
	Date	3/16/21	Drawn By: LS
		Project: BUSINESS SCHOOL INSTRUCTIONAL FACILITY 10 WINTERGREEN AVENUE NEW HAVEN, CT	Approved By: ER
		CAD no. 041-0001-0201 Business School-IT-RS-017 MEP_R19.dwg	Drawing No. IT-010
		Project No. B1-RS-337	



1 SITE PLAN
IT-011 SCALE: 1" = 50'-0"



NOTES

1. REFER TO DRAWING IT-010 FOR NOTES AND KEY NOTES.

Drawing Title		SITE PLAN - IT		STATE OF CONNECTICUT DEPARTMENT OF ADMINISTRATIVE SERVICES	
Professional Seal	REVISIONS			Drawing prepared by:	Date
	Mark	Date	Description	KOHLER RONAN ENGINEERS 93 Lake Avenue, Danbury, CT 06810 203.778.1017 F 203.778.1018 www.kohleronan.com	12/19/2020
	1	3/16/21	Addendum #1		Scale As indicated
100% CONSTRUCTION DOCUMENTS			Project	BUSINESS SCHOOL INSTRUCTIONAL FACILITY	Drawn By LS
			10 WINTERGREEN AVENUE NEW HAVEN, CT		Approved By ER
			CAD no. B1-RS-337	Project No. B1-RS-337	Drawing No. IT-011



Southern Connecticut State University – Business School Instructional Facility

BID PROPOSAL FORM

Project: SCSU Business School Instructional Facility

Bid Package Name: _____

Bid Package Number: _____

Bid Due Date/Time: _____

(BIDDER MUST SUBMIT SEPARATE BID FORMS WHEN BIDDING MULTIPLE PACKAGES)

Proposal Submitted By:

Company Name: _____

Address: _____

Telephone: _____

Fax: _____

Subcontractor License No.: _____

Subcontractor EMR Rate: _____

Federal Tax ID No. _____

Business Certification: SBE MBE WBE

Union Affiliation: UNION NON-UNION

1. BASE BID

The above noted Bidder hereby proposes to provide for all work as defined in the Contract Documents and any incidental work necessary to construct a complete, working, and fully operational system for all work as defined herein, for the totally inclusive lump sum amount, including all applicable sales and use taxes of:

Written Format: _____

Number Format: \$ _____



Southern Connecticut State University – Business School Instructional Facility

2. CONTRACTOR DEFAULT INSURANCE (SDI)

This project may be performed under a contractor default insurance program (SDI or Subguard). Subcontractors will still need to carry the cost of their Payment and Performance Bond in their base bid above in accordance with the contract bidding documents. We are requiring that your firm provide a deduct alternate for the value of your Payment and Performance Bond.

By submitting this bid, this Subcontractor has acknowledged above and has provided requested credit value below.

Written Format: _____

Number Format: \$ _____

3. SHAWMUT/BIDDER SUBCONTRACT AGREEMENT

The bidder has reviewed all components of the Shawmut Design & Construction Subcontract Agreement, acknowledges all of the requirements are included in the above lump sum price, and agrees to sign upon contract award without modification.

Acknowledged (box must be marked)

4. SHAWMUT/ OWNER CMR AGREEMENT

The bidder has reviewed the Standard Form of Agreement between Owner (State of Connecticut Department of Administrative Services) and Construction Manager at Risk CMR (Shawmut Design & Construction) that was provided as part of the bid documents and agrees to bind bidder to any and all of the same terms and conditions that Shawmut is bound to owner and that any and all costs associated with said terms and conditions are included in the above lump sum price, and agrees to sign Shawmut-to-bidder subcontract agreement upon contract award without modification to owner/CMR agreement.

Acknowledged (box must be marked)

5. COMMISSION ON HUMAN RIGHTS AND OPPORTUNITIES CHRO

(SELECT NON SET-A-SIDE BID PACKAGES)

ALL subcontractors, other than those specifically designated as “Set-Aside” OR “Excluded” (In the Anticipated Bid Package Breakdown section of the solicitation) will be required to award a minimum of 25% percent or more of the value of their Subcontract to DAS-Certified S/MBE contractors/vendors, of which a minimum of 18.75% percent of the value of their subcontract must be awarded to DAS-Certified SBE contractors/vendors and a minimum of 6.25% percent or more of the



Southern Connecticut State University – Business School Instructional Facility
value of their subcontract must be awarded to DAS-Certified SBE’s that are also DAS-Certified MBE contractor/vendors (this includes ethnic minorities, disabled, and women-owned business).

The successful bidder shall participate and comply with all contract compliance regulations concerning contract compliance and approval of contract compliance programs by the Commission Human Rights and Opportunities (CHRO) Sections 46a-68j – 21 through 43 inclusive. Each subcontractor will be required to develop and implement a CHRO Affirmative Action Plan for the project

The DAS Contractor Prequalification Program (C.G.S §4a-100) requires all bidders to prequalify before they can bid on a contract or perform work pursuant to a contract for the construction, reconstruction, alteration, remodeling, repair or demolition of any public building or any other public work by the state or a municipality, estimated to cost more than \$500,000 and which is funded in whole or in part with state funds, except a public highway or bridge project or any other construction project administered by the Department of Transportation. DAS prequalification is required for all work in excess of \$500,000 regardless of tier.

Within five (5) days of Bid Opening, this apparent lowest bidder will disclose its estimated costs for the named S/MBE Sub-Subcontracts to verify compliance with this requirement.

By submitting this bid, this Subcontractor has acknowledged and agreed to this requirement.

Acknowledged (box must be marked)

Failure to acknowledge and verify compliance with these requirements will result in a bid that is non-responsive and will be rejected.

6. ADDENDA

Receipt of the following Addenda is hereby acknowledged:

Addendum No.: _____	Date: _____
Addendum No.: _____	Date: _____
Addendum No.: _____	Date: _____
Addendum No.: _____	Date: _____

7. SUB-CONTRACTORS

The following Sub-Tier Contractors are included in this proposal:

<u>Sub-Subcontractor</u>	<u>Scope of Work</u>	<u>Business Classification</u> <u>(SBE & M/WBE)</u>	<u>EMR</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____



Southern Connecticut State University – Business School Instructional Facility

Note: The subcontractor reserves the right to substitute Sub-Tier Contractors provided that they satisfy the project requirements for SBE and MBE participation.

8. CONTRACTOR CONTROLLED INSURANCE PROGRAM (CCIP)

This project may be performed under a contractor controlled insurance program (CCIP). Subcontractors will still have insurance obligations and responsibilities. Carefully review Project Manual Section 00 73 16 Contractor Controlled Insurance Program (CCIP). At this time we are only requiring that your firm acknowledges that you have reviewed Section 00 73 16 Contractor Controlled Insurance Program (CCIP).

By submitting this bid, this Subcontractor has acknowledged above.

Acknowledged (box must be marked)

9. QUANTITY BREAKDOWN

Shawmut reserves the right to request quantity breakdowns at the time of scope review and prior to Contract Award.

By submitting this bid, this Subcontractor has acknowledged and agreed to this requirement.

Acknowledged (box must be marked)

10. BID PROPOSAL FORM ATTACHMENTS

(MUST BE SUBMITTED WITH BID PROPOSAL)

- Bid Proposal Form (Section 00 41 00)
- DAS Business Classification Certificate SBE/M/WBE (Required if Bid Package Designated as a Set Aside Package)
- DAS Prequalification Certificate (Required if Subcontractor bid is in excess of \$500,000)
- DAS Prequalification Bid Update Statement (Required if Subcontractor bid is in excess of \$500,000)
- Bid Bond (Section 00 43 16)
- Consent of Surety (Section 00 61 13)



Southern Connecticut State University – Business School Instructional Facility

- Non-Collusion Affidavit (Section 00 45 19)
- State of Connecticut OPM Ethics Form 6 (Section 00 45 19.1)
- Contractors Wage Certification Form (Section 00 43 13.1)
- OPM Iran Certification (Section 00 41 00d)
- Gift and Campaign Contribution Certification
- State of Connecticut OPM Ethics Form 5 Consulting Agreement Affidavit

SUBCONTRACTOR: _____

SIGNATURE: _____

PRINT NAME: _____

TITLE: _____

TELEPHONE: _____

EMAIL: _____

DATE: _____

(Affix Corporate Seal – if Corporation)

Note: The CMR is authorized to waive minor irregularities which it considers in the best interest of the Project, provided the reasons for any such waiver is stated in writing by the CMR and made a part of the contract file.

State of Connecticut Department of Administrative Services (DAS) Contractor Prequalification Forms

IMPORTANT INFORMATION – PLEASE READ

For Projects with estimated Construction Costs greater than \$500,000

WHEN YOU SUBMIT A BID YOU MUST INCLUDE WITH YOUR OTHER DOCUMENTS THE FOLLOWING:

2. A “DAS Update (Bid) Statement”.

This document may be found and completed on-line at the [Bid Statement Online Application](#).

Go to the DAS Homepage (www.ct.gov/DAS), click on “Doing Business with the State”, click on “Apply for DAS Construction Contractor Prequalification”, click on “Documents/Forms”, click on “Update Bid Statement”, and then click on “Bid Statements”.

Follow instructions in the “[Instructions for Prequalification](#)”.

Go to the DAS Homepage (www.ct.gov/DAS), click on “Doing Business with the State”, click on “Apply for DAS Construction Contractor Prequalification”, click on “How To”, and then click on “View Instructions for Prequalification”.

Should you have any questions or concerns, please call (860) 713-5280.

State of Connecticut
Department of Administrative Services (DAS) Contractor Prequalification
Update Bid Statement
 (Statement to be included with the bid)

Public Act No. 04-141 - AN ACT REVISING PREQUALIFICATION REQUIREMENTS FOR STATE CONSTRUCTION CONTRACTS.

On and after October 1, 2004, each bid submitted for a contract shall include a copy of a prequalification certificate issued by the Commissioner of Administrative Services. The bid shall also be accompanied by an update statement in such form as the Commissioner of Administrative Services prescribes. The form for such update statement shall provide space for information regarding all projects completed by the bidder since the date the bidder's prequalification certificate was issued or renewed, all projects the bidder currently has under contract, including the percentage of work on such projects not completed, the names and qualifications of the personnel who will have supervisory responsibility for the performance of the contract, any significant changes in the bidder's financial position or corporate structure since the date the certificate was issued or renewed, any change in the contractor's qualification status, and such other relevant information as the Commissioner of Administrative Services prescribes. Any bid submitted without a copy of the prequalification certificate and an update statement shall be invalid.

Name of Project that company is bidding on:		
Project Number:		
Name of Company:		
FEIN:		
Company Address:		
Prequalification Contact and Telephone Number		
Date of Prequalification with the DAS:	Single Limit:	Aggregate Work Capacity (AWC):
* This amount equals your company's AWC minus the Total \$ Amount of Work Remaining.		* Remaining Aggregate Work Capacity:

Please list all of your company's (100%) completed projects since date of Prequalification:
 (Please add additional page(s) if required)


Name of Project	Owner of Project	Date Project Completed	Total Contract Amount

(Please add additional page(s) if required. Please total the Work Remaining column)

Name of Project	Owner of Project	Total Contract Amount	% Complete	Work Remaining (\$)
Total \$ Amount of Work Remaining →				

Please list the names and titles of the personnel who will have supervisory responsibility for the performance of the contract being bid on:

(Please add additional page(s) if required)

Individual Name	Title of individual
	

Have there been any changes in your company's financial condition or business organization, which might affect your company's ability to successfully complete this contract?

Yes or No

If yes, please explain:

I, certify under penalty of law that all of the information contained in this Update Statement is true and accurate to the best of my knowledge as of the date below.

Signature

Date

It is the responsibility of the Awarding Authority to determine if any of the information provided above will impact the contractor's performance on this project.

The DAS' Contractor Prequalification Program can be reached at (860) 713-5280

Rev.12.22.2004



SAMPLE FORM TO BE SUBMITTED ON SURETY LETTERHEAD

Shawmut Design and Construction
560 Harrison Avenue
Boston, Massachusetts 02118

Attention: Brian C. Fugere
Director – Purchasing

Project: Southern Connecticut State University Business School Instructional Facility
New Haven, CT
Shawmut Design and Construction Project # 170040

Reference: «Bid Package Description»

Gentlemen:

We, _____ (Surety) _____, are the Surety for «Company».

We understand that «Company» will be submitting a bid to Shawmut Design and Construction for the «Bid Package Description» and related scope required on the above referenced Project.

We note that your Bid Package [_Description_] – Invitation To Bid dated [_____], included the draft Subcontract Agreement and all associated Riders, Attachments and Exhibits, which we have reviewed.

Accordingly, should you accept the bid submitted by «Company» and should it be required by you, we as surety are prepared to immediately issue a Performance Bond and a Labor and Material Payment Bond in the full amount of said bid.

«Company» has an aggregate bonding capacity of \$_____, and a single project bonding limit of \$_____. At present, we have issued bonds to «Company» totaling \$_____.

We are on the Federal Register, Department of the Treasury, Fiscal Service, as a company holding a Certificate of Authority as an acceptable Surety on federal bonds in the Commonwealth of Massachusetts with an underwriting limitation in excess of the bid amount.

_____	(Surety)	(seal)
_____	(Witness)	
_____	(Title)	(seal)

NON-COLLUSION AFFIDAVIT

STATE OF _____, COUNTY OF _____

_____ : being first duly sworn deposes and says that:

1. He is (owner, partner, officer, representative or agent) of _____ the Bidder that has submitted the attached Bid.
2. He is fully informed respecting the preparation and contents of the attached Bid and of all pertinent circumstances respecting such Bid;
3. Such Bid is genuine and is not a collusive or sham Bid.
4. Neither the Said Bidder nor any of its officers, partners, owners, agents, representatives, employees or parties conspired, connived or agreed, directly or indirectly with any other Bidder, firm or person to submit a collusive or sham Bid in connection with the contract for which the attached bid has been submitted or to refrain from bidding in connection with such Contract, or has in any manner, directly or indirectly, sought by agreement or collusion or communication or conference with any other Bidder, firm, person to fix the price or prices in the attached Bid or any other Bid, or to fix any overhead, profit or cost element through collusion, conspiracy or connivance, or unlawful agreement with any advantage against the Housing Authority of the _____ or any person interested in the proposed Contract; and,
5. The price or prices quoted in the attached Bid are fair and proper and are not tainted by any collusion, conspiracy, connivance or unlawful agreement on the part of the Bidder or any of its agents, representatives, owners, employees, or parties in interest, including this affidavit.

(Signed) (Title)

Subscribed and sworn to before me this _____ day of _____, 2020 .

Name

Title

My commission expires _____, 2020 .

NON-COLL



STATE OF CONNECTICUT

AFFIRMATION OF RECEIPT OF STATE ETHICS LAWS SUMMARY

Written or electronic affirmation to accompany a large State construction or procurement contract, having a cost of more than \$500,000, pursuant to Connecticut General Statutes §§ 1-101mm and 1-101qq

INSTRUCTIONS:

Complete all sections of the form. Submit completed form to the awarding State agency or contractor, as directed below.

CHECK ONE:

- I am a person seeking a large State construction or procurement contract. I am submitting this affirmation to the awarding State agency with my bid or proposal. [Check this box if the contract will be awarded through a competitive process.]
- I am a contractor who has been awarded a large State construction or procurement contract. I am submitting this affirmation to the awarding State agency at the time of contract execution. [Check this box if the contract was a sole source award.]
- I am a subcontractor or consultant of a contractor who has been awarded a large State construction or procurement contract. I am submitting this affirmation to the contractor.
- I am a contractor who has already filed an affirmation, but I am updating such affirmation either (i) no later than thirty (30) days after the effective date of any such change or (ii) upon the submittal of any new bid or proposal, whichever is earlier.

IMPORTANT NOTE:

Within fifteen (15) days after the request of such agency, institution or quasi-public agency for such affirmation contractors shall submit the affirmations of their subcontractors and consultants to the awarding State agency. Failure to submit such affirmations in a timely manner shall be cause for termination of the large State construction or procurement contract.

AFFIRMATION:

I, the undersigned person, contractor, subcontractor, consultant, or the duly authorized representative thereof, affirm (1) receipt of the summary of State ethics laws* developed by the Office of State Ethics pursuant to Connecticut General Statutes § 1-81b and (2) that key employees of such person, contractor, subcontractor, or consultant have read and understand the summary and agree to comply with its provisions.

* The summary of State ethics laws is available on the State of Connecticut's Office of State Ethics website.

Signature

Date

Printed Name

Title

Firm or Corporation (if applicable)

Street Address

City

State

Zip

Awarding State Agency



Southern Connecticut State University – Business School Instructional Facility

**CONNECTICUT DEPARTMENT OF LABOR
WAGE AND WORKPLACE STANDARDS DIVISION
CONTRACTORS WAGE CERTIFICATION FORM**

I, _____ of _____
Officer, Owner, Authorized Rep. Company Name

do hereby certify that the _____
Company Name

Street

City

and all of its subcontractors will pay all workers on the

Project Name and Number

Street and City

the wages as listed in the schedule of prevailing rates required for such project (a copy of which is attached hereto).

Signed

Subscribed and sworn to before me this _____ day of _____.

Notary Public

Return to:
Connecticut Department of Labor
Wage & Workplace Standards Division
200 Folly Brook Blvd.
Wethersfield, CT 06109

Rate Schedule Issued (Date): _____

END OF CERTIFIED PAYROLL & CONTRACTORS WAGE RATE CERTIFICATION FORM



Southern Connecticut State University – Business School Instructional Facility

00 41 00d OPM Iran Certification Form 7



STATE OF CONNECTICUT

Written or electronic PDF copy of the written certification to accompany a large state contract pursuant to P.A. No. 13-162 (Prohibiting State Contracts With Entities Making Certain Investments In Iran)

Respondent Name: _____

INSTRUCTIONS:

- CHECK ONE: [] Initial Certification. [] Amendment or renewal.

A. Who must complete and submit this form. Effective October 1, 2013, this form must be submitted for any large state contract, as defined in section 4-250 of the Connecticut General Statutes. This form must always be submitted with the bid or proposal, or if there was no bid process, with the resulting contract, regardless of where the principal place of business is located.

Pursuant to P.A. No. 13-162, upon submission of a bid or prior to executing a large state contract, the certification portion of this form must be completed by any corporation, general partnership, limited partnership, limited liability partnership, joint venture, nonprofit organization or other business organization whose principal place of business is located outside of the United States. United States subsidiaries of foreign corporations are exempt. For purposes of this form, a "foreign corporation" is one that is organized and incorporated outside the United States of America.

Check applicable box:

- [] Respondent's principal place of business is within the United States or Respondent is a United States subsidiary of a foreign corporation. Respondents who check this box are not required to complete the certification portion of this form, but must submit this form with its Invitation to Bid ("ITB"), Request for Proposal ("RFP") or contract package if there was no bid process. [] Respondent's principal place of business is outside the United States and it is not a United States subsidiary of a foreign corporation. CERTIFICATION required. Please complete the certification portion of this form and submit it with the ITB or RFP response or contract package if there was no bid process.

B. Additional definitions.

- 1) "Large state contract" has the same meaning as defined in section 4-250 of the Connecticut General Statutes; 2) "Respondent" means the person whose name is set forth at the beginning of this form; and 3) "State agency" and "quasi-public agency" have the same meanings as provided in section 1-79 of the Connecticut General Statutes.

C. Certification requirements.

No state agency or quasi-public agency shall enter into any large state contract, or amend or renew any such contract with any Respondent whose principal place of business is located outside the United States and is not a United States subsidiary of a foreign corporation unless the Respondent has submitted this certification.

Complete all sections of this certification and sign and date it, under oath, in the presence of a Commissioner of the Superior Court, a Notary Public or a person authorized to take an oath in another state.

CERTIFICATION:

I, the undersigned, am the official authorized to execute contracts on behalf of the Respondent. I certify that:

- [] Respondent has made no direct investments of twenty million dollars or more in the energy sector of Iran on or after October 1, 2013, as described in Section 202 of the Comprehensive Iran Sanctions, Accountability and Divestment Act of 2010. [] Respondent has either made direct investments of twenty million dollars or more in the energy sector of Iran on or after October 1, 2013, as described in Section 202 of the Comprehensive Iran Sanctions, Accountability and Divestment Act of 2010, or Respondent made such an investment prior to October 1, 2013 and has now increased or renewed such an investment on or after said date, or both.

Sworn as true to the best of my knowledge and belief, subject to the penalties of false statement.

Printed Respondent Name

Printed Name of Authorized Official

Signature of Authorized Official

Subscribed and acknowledged before me this _____ day of _____, 20____.

Commissioner of the Superior Court (or Notary Public)

My Commission Expires



STATE OF CONNECTICUT GIFT AND CAMPAIGN CONTRIBUTION CERTIFICATION

Written or electronic certification to accompany a State contract with a value of \$50,000 or more, pursuant to C.G.S. §§ 4-250, 4-252(c) and 9-612(f)(2) and Governor Dannel P. Malloy's Executive Order 49.

INSTRUCTIONS:

Complete all sections of the form. Attach additional pages, if necessary, to provide full disclosure about any lawful campaign contributions made to campaigns of candidates for statewide public office or the General Assembly, as described herein. Sign and date the form, under oath, in the presence of a Commissioner of the Superior Court or Notary Public. Submit the completed form to the awarding State agency at the time of initial contract execution and if there is a change in the information contained in the most recently filed certification, such person shall submit an updated certification either (i) not later than thirty (30) days after the effective date of such change or (ii) upon the submittal of any new bid or proposal for a contract, whichever is earlier. Such person shall also submit an accurate, updated certification not later than fourteen days after the twelve-month anniversary of the most recently filed certification or updated certification.

CHECK ONE: Initial Certification 12 Month Anniversary Update (Multi-year contracts only.)
 Updated Certification because of change of information contained in the most recently filed certification or twelve-month anniversary update.

GIFT CERTIFICATION:

As used in this certification, the following terms have the meaning set forth below:

- 1) "Contract" means that contract between the State of Connecticut (and/or one or more of its agencies or instrumentalities) and the Contractor, attached hereto, or as otherwise described by the awarding State agency below;
- 2) If this is an Initial Certification, "Execution Date" means the date the Contract is fully executed by, and becomes effective between, the parties; if this is a twelve-month anniversary update, "Execution Date" means the date this certification is signed by the Contractor;
- 3) "Contractor" means the person, firm or corporation named as the contractor below;
- 4) "Applicable Public Official or State Employee" means any public official or state employee described in C.G.S. §4-252(c)(1)(i) or (ii);
- 5) "Gift" has the same meaning given that term in C.G.S. § 4-250(1);
- 6) "Principals or Key Personnel" means and refers to those principals and key personnel of the Contractor, and its or their agents, as described in C.G.S. §§ 4-250(5) and 4-252(c)(1)(B) and (C).

I, the undersigned, am a Principal or Key Personnel of the person, firm or corporation authorized to execute this certification on behalf of the Contractor. I hereby certify that, no gifts were made by (A) such person, firm, corporation, (B) any principals and key personnel of the person firm or corporation who participate substantially in preparing bids, proposals or negotiating state contracts or (C) any agent of such, firm, corporation, or principals or key personnel who participates substantially in preparing bids, proposals or negotiating state contracts, to (i) any public official or state employee of the state agency or quasi-public agency soliciting bids or proposals for state contracts who participates substantially in the preparation of bid solicitations or request for proposals for state contracts or the negotiation or award of state contracts or (ii) any public official or state employee of any other state agency, who has supervisory or appointing authority over such state agency or quasi-public agency.

I further certify that no Principals or Key Personnel know of any action by the Contractor to circumvent (or which would result in the circumvention of) the above certification regarding **Gifts** by providing for any other Principals, Key Personnel, officials, or employees of the Contractor, or its or their agents, to make a **Gift** to any Applicable Public Official or State Employee. I further certify that the Contractor made the bid or proposal for the Contract without fraud or collusion with any person.

CAMPAIGN CONTRIBUTION CERTIFICATION:

I further certify that, on or after January 1, 2011, neither the Contractor nor any of its principals, as defined in C.G.S. § 9-612(f)(1), has made any **campaign contributions** to, or solicited any contributions on behalf of, any exploratory committee, candidate committee, political committee, or party committee established by, or supporting or authorized to support, any candidate for statewide public office, in violation of C.G.S. § 9-612(f)(2)(A). I further certify that **all lawful campaign contributions** that have been made on or after January 1, 2011 by the Contractor or any of its principals, as defined in C.G.S. § 9-612(f)(1), to, or solicited on behalf of, any exploratory committee, candidate committee, political committee, or party committee established by, or supporting or authorized to support any candidates for statewide public office or the General Assembly, are listed below:

Lawful Campaign Contributions to Candidates for Statewide Public Office:

<u>Contribution Date</u>	<u>Name of Contributor</u>	<u>Recipient</u>	<u>Value</u>	<u>Description</u>

Lawful Campaign Contributions to Candidates for the General Assembly:

<u>Contribution Date</u>	<u>Name of Contributor</u>	<u>Recipient</u>	<u>Value</u>	<u>Description</u>

Sworn as true to the best of my knowledge and belief, subject to the penalties of false statement.

Printed Contractor Name

Printed Name of Authorized Official

Signature of Authorized Official

Subscribed and acknowledged before me this _____ day of _____, 20____.

Commissioner of the Superior Court (or Notary Public)

My Commission Expires



RFI LOG

SCSU - Business School Instructional Facility

AS OF: March 9, 2021



RFI#	QUESTIONS	RESPONSE
EARLY RELEASE		
1	Is DAS Prequalification required prior to bid submission or prior to project start date?	Prior to contract.
2	Should sitework bidders include a sheetpile shored excavation in lieu of a sloped excavation for the basement? If so, could you please provide the limits of the required shoring?	Yes sheetpile shoring will be required around entire basement excavation.
3	Are the basement walls designed as a cantilever retaining wall and therefore fully backfilled prior to steel erection?	Basement walls could be fully backfilled prior to steel erection.
4	Can you confirm BP 1.02 Concrete is to exclude costs for all site concrete retaining walls, concrete sidewalks, ramps, stairs and permeable pavers?	See Addendum 1 Item 1.
5	The contract drawings show the solar array conduit running through the tree protection area? Is that correct? Do we need to carry costs for an arborist for this work?	For solar array conduit run see Addendum 1 Item 10/ B-SKL-07. BP 1.04 Sitework does not need to carry cost for an arborist for this work.
6	The water service connections/taps are typically performed by the RWA, do we need to carry these costs or are they by Shawmut? If we are to carry the costs do you have an estimate from RWA?	RWA cost covered by DAS.
7	Gas service and water service caps are shown at the valve at back of walk on L102, our scope says to cap at main, please clarify?	Cap at gate valves. See Addendum 1 Item 7/B-SKL-04.
8	BP1.04 Sitework scope of work states to carry the vapor barrier and sand below slab, the vapor barrier is typically by the concrete sub and we cannot locate any reference to sand, please clarify?	BP 1.02 Concrete to furnish and install vapor barrier. Vapor barrier to be placed over crushed stone by BP 1.04 Sitework. Refer to Structural Drawings and Geotechnical Engineers Report.
9	BP 1.04 Sitework scope of work states to disconnect the lights, are we to carry these costs or are the disconnects by the site electrical contractor, please advise?	Disconnect lights by BP 1.05 Site Electric.
10	BP1.04 Sitework is to remove and handle the material from drilling the geothermal wells, how much material is anticipated and what is the anticipated make-up of the material, please advise?	Material volume is 500' well by 8" diameter times 52 wells. Refer to Geotechnical Engineers Report.
11	The contract documents and scope of work make reference to removing fill from the building footprint and underdrains. No fill is shown in the borings and we cannot locate any underdrains or footing drains, please clarify?	Remove and stockpile topsoil. Remove only what is required in Geotechnical Engineers Report, Section 3.1, note Locally fill, fine sand, trace silt, trace gravel, trace roots, 2 to 5 feet. Refer also to section 5.0 in Report. Refer to Structural drawings.
12	Who supplies and installs the bluestone cap on areaway?	BP 2.02 Masonry
13	BP 1.04 Sitework scope of work states we are to provide trash receptacles / benches, we cannot locate any benches, please advise?	No purchased benches. BP 1.04 Sitework preps subbase for cast-in-place seating walls.
14	BP 1.04 Sitework scope of work states we are to provide all meter pits and water meters exterior of the building, none are shown please advise?	BP 1.04 Sitework to provide water meter and backflow located inside building - see Plumbing Plans.
15	Scope of work between BP 1.04 Sitework & BP 1.05 Site Electric appears to both indicate including trenching and backfill. Please confirm which BP owns trenching and backfilling for electrical and communications installs?	BP 1.04 Sitework owns trenching and backfill.
16	Please confirm that BP1.05 Site Electric unit pricing includes trenching and backfill.	There is no unit pricing for BP 1.05 Site Electric.
17	Please confirm which bid package owns site concrete items such as light pole bases, transformer bases, electrical vaults.	BP 1.04 Site owns light pole bases, and electrical vaults, and BP 2.01 Site Concrete owns transformer pads.

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18	Please confirm there are no Utility Fees associated with any of the new, temporary or relocated electrical/comm site work. If there are please provide allowance or fees to carry in bid proposals.	No Utility fees allowance to be carried by BP 1.05 Site Electric.
19	Please provide details for how the building and the Office Trailer will receive temporary power or communications services.	BP 1.05 Site Electric. Electric and telephone service to modular building being removed can be repurposed.
20	Temp Facilities and Controls specification indicates the Contractor is responsible for usage fees for temp power. Please confirm Shawmut is carrying these costs and they would NOT be included in BP1.05.	BP 1.05 Site Electric is not responsible for usage fees for temp power.
21	Where is the location of BP 1.05 Site Electric scope of work - B. Temporary site power?	BP 1.05 Site Electric. Service to modular building being removed can be repurposed.
22	IT-011 notes 1-1/4" where is this conduit shown and please confirm if BP1.05 Site Electric is including the cabling or just the conduit ?	Provide 2" conduit for blue phones per IT-002. Conduit, cabling, Blue Phones by BP 1.05 Site Electric.
23	Please confirm BP 1.05 Site Electric will be responsible for all MV wiring/splicing and connections?	Yes, by BP 1.05 Site Electric.
24	Please advise who is responsible for temporary electrical services to the new building and to the CM Trailer Complex ?	BP 1.05 Site Electric provide temp power service outside new building. Building Electrician will provide lights and power off this service for use for new building. Also See Addendum 1 Item 21.
25	Drawing E-011 there is a tamper switch for the post indicator valve. Is BP1.05 Site Electric responsible to provide a conduit for fire alarm connection to this device ?	Yes, conduit by BP 1.05 Site Electric.