



**To: All Vendors Bidding on The College of New Jersey  
School of Business Waterproofing and Miscellaneous Exterior Repairs**

**From: Lauren Manning  
Finance & Business Services**

**Date: September 6, 2022**

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**ADDENDUM NO. 1**

**ISSUE DATE: September 8, 2022**

**REFERENCE:** The College of New Jersey  
School of Business Waterproofing and Miscellaneous Exterior Repairs  
Bid No. AB230002

Date of Original Bidding Documents: August 29, 2022

**INTENT:** This Addendum forms a part of the Contract Documents and modifies the original Bidding Documents and Prior Addenda if any, as identified above. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject Bidder to disqualification.

**Vendor Questions:**

Question 1: Please provide photos of the inside of the mechanical room. The building was locked during the pre-bid meeting.

**Response:** Photos of the mechanical room foundation wall are included as an attachment to this addendum. On the photos, we highlighted the location of the new fiber optic conduit pull box. We have also included the construction bid set for the fiber optic conduit installation project. The actual run location and associated dimensions are approximate since these are not as-builts.

Question 2: The plans call for the existing footing drain to remain but it is in the way of the proposed waterproofing membrane. Please advise.

**Response:** All items identified as "to remain" that may conflict with the installation of the new waterproofing system are to be temporarily removed/disconnected and reinstalled/reconnected to maintain their original functionality.

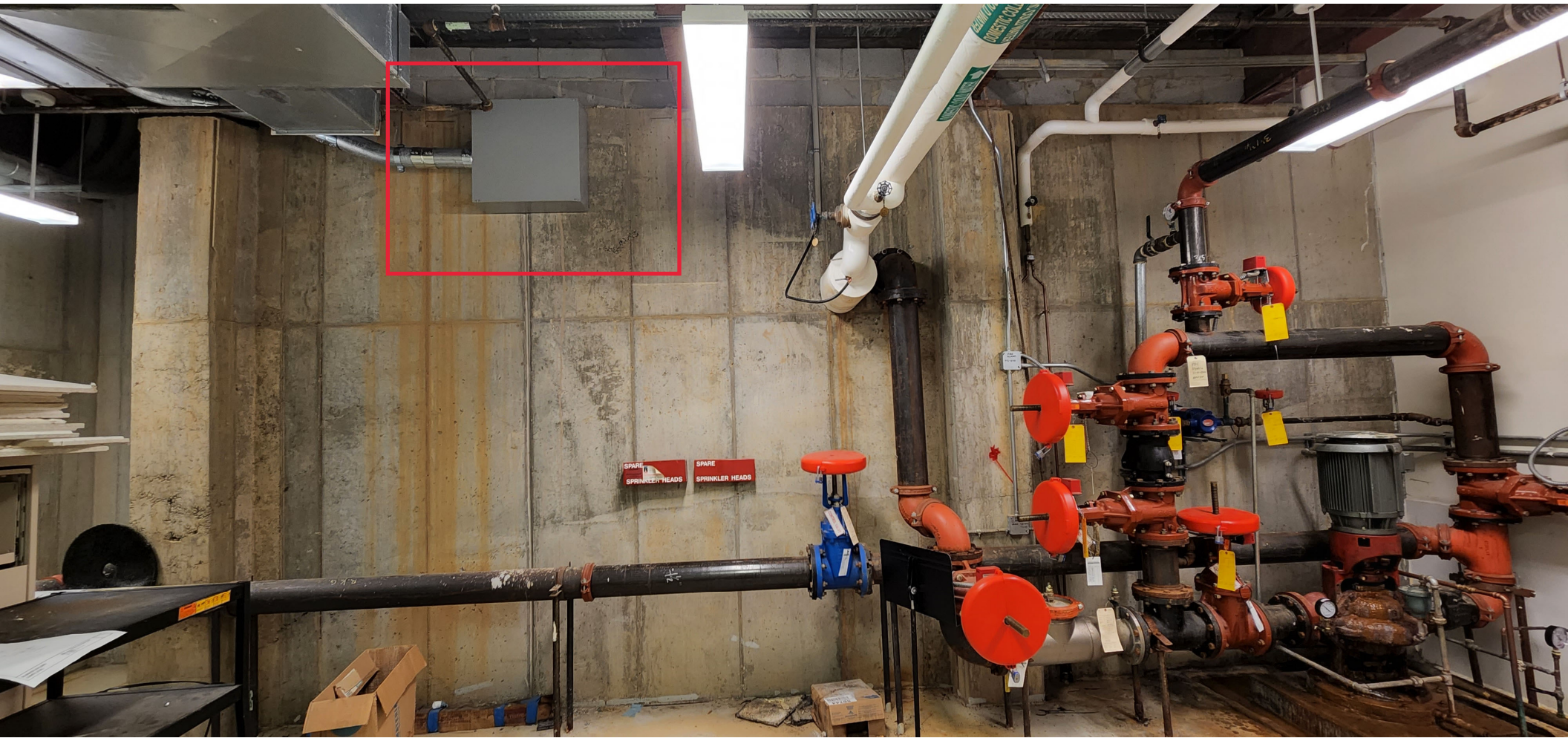
**Attachments:**

1. Pre-bid Sign in sheet.
2. Photos of fiber optic conduit pull box in mechanical room.
3. Plans and details from the fiber conduit installation project.

**END OF ADDENDUM NO. 1**







SPARE  
SPRINKLER HEADS

SPARE  
SPRINKLER HEADS





PHOTO A - ARMSTRONG HALL EXTERIOR  
Area Outside Armstrong Hall In Location Of Exterior Pull Box For Building Point Of Entry



PHOTO B - MANHOLE 15A TO 16A  
Area For New Duct Bank Routing From Manhole 15A To Manhole 16A Includes Hardscapes Such As Brick And Concrete

Fiber Routing					
Span ID	Starting Building	Ending Building	Empty Conduit	Fiber Cable Information	
				Fiber Strand Count	Type Of Cable
1	Armstrong Hall	STEM Building	Yes	36	052
2	Bliss Hall	Kendall Hall	Yes	48	052
3	Business Building	Kendall Hall	No	24	052
4	Trenton Hall	Kendall Hall	No	36	052
5	Music Building	Kendall Hall	No	24	052
6	AJMM Building	Kendall Hall	N/A	0*	052
7	Social Science	Kendall Hall	Yes	36	052
8	Kendall Hall	Green Hall	Yes	144	052
9	Chemistry Building	STEM Building	N/A	0*	
10	Physics Building	STEM Building	N/A	0*	052
11	Biology Building	STEM Building	N/A	0*	052
12	STEM Building	Green Hall	N/A	0*	052
13	Forcina Hall	Roscoe Hall	Yes	24	052
14	Forcina Hall Room 104**	Forcina Room 1NA	No	48/48	052/OM1
15	Education Building	Roscoe Hall	N/A	0*	052
16	Centennial Hall	Roscoe Hall	No	24	052
17	Gitenstein Library	Roscoe Hall	No	36	052
18	Roscoe Hall	Green Hall	No	96	052
19	Norsworthy Hall	Ely-Allen-Brewster	N/A	0*	052
20	Spiritual Center	Ely-Allen-Brewster	No	24	052
21	Maintenance Building	Powerhouse	Yes	36	052
22	Powerhouse	Ely-Allen-Brewster	No	48	052
23	Decker Hall	Ely-Allen-Brewster	No	36	052
24	Ely-Allen-Brewster	Green Hall	Yes	192	052
25	New Residence Hall	Eickhoff Hall	No	24	052
26	Packer Hall	Eickhoff Hall	No	36	052
27	Brower Student Center	Eickhoff Hall	N/A	0*	052
28	Eickhoff Hall	Green Hall	No	96	052
29	TH1 (Town House West)	Cromwell Hall	No	48	052
30	TH5 21A/B (Town House East)	Cromwell Hall	No	(2) 36	052
31	TH9 (Town House South)	Cromwell Hall	No	48	052
32	Travers Hall	Cromwell Hall	Yes	12	052
33	Wolfe Hall	Cromwell Hall	N/A	0*	052
34	Decker Garage	Cromwell Hall	Yes	24	052
35	Recreation Center	Cromwell Hall	No	36	052
36	Stadium Generator Building	Recreation Center	No	12	052
37	Stadium Concession Stand	Recreation Center	No	12	052
38	Soccer Field Press Box 28A/B	Admin Splice	No	36	052
39	Metzger Garage	Admin Splice	No	24	052
40	Phelps Hall	Admin Splice	N/A	0*	052
41	Hausdoerffer Hall	Admin Splice	N/A	0*	052
42	Cromwell Hall	Green Hall	No	288	052
43	Travers/Wolfe Garage	Travers Hall	Yes	12	052
44	Forcina Garage	Education Building	No	12	052
45	Fire Pump House	Admin Services Building	No	12	052
46	Admin Services Building	Admin Splice	N/A	36	052
47	Eickhoff Room 227**	Eickhoff Room 337	No	48/48	052 / OM1

**KEY NOTES (SYMBOLS ①, ②, ETC.)**

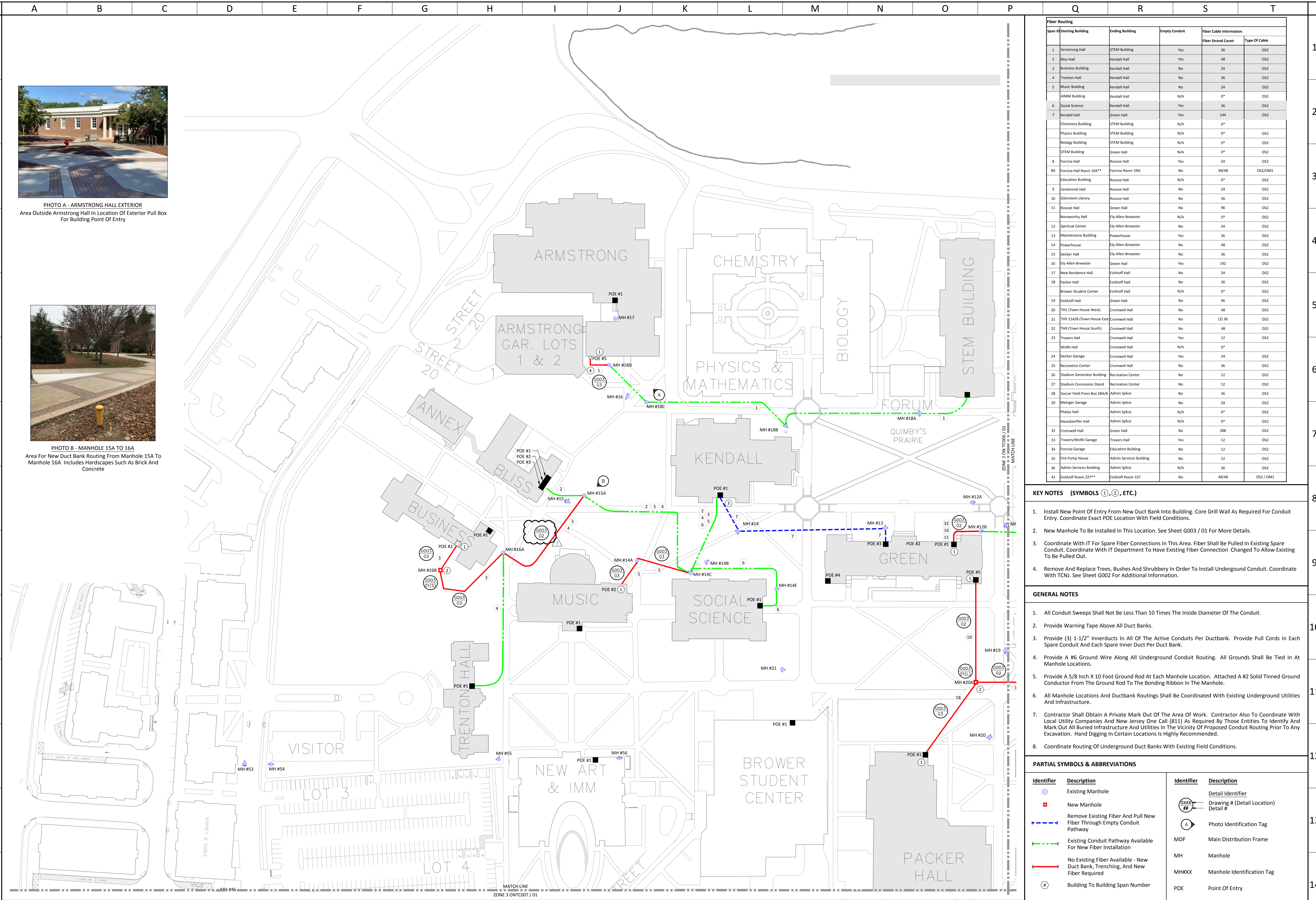
1. Install New Point Of Entry From New Duct Bank Into Building. Core Drill Wall As Required For Conduit Entry. Coordinate Exact POE Location With Field Conditions.
2. New Manhole To Be Installed In This Location. See Sheet G003 / 01 For More Details.
3. Coordinate With IT For Spare Fiber Connections In This Area. Fiber Shall Be Pulled In Existing Spare Conduit. Coordinate With IT Department To Have Existing Fiber Connection Changed To Allow Existing To Be Pulled Out.
4. Remove And Replace Trees, Bushes And Shrubby In Order To Install Underground Conduit. Coordinate With TCNJ. See Sheet G002 For Additional Information.

**GENERAL NOTES**

1. All Conduit Sweeps Shall Not Be Less Than 10 Times The Inside Diameter Of The Conduit.
2. Provide Warning Tape Above All Duct Banks.
3. Provide (3) 1-1/2" Innerducts In All Of The Active Conduits Per Ductbank. Provide Pull Cords In Each Spare Conduit And Each Spare Inner Duct Per Duct Bank.
4. Provide A #6 Ground Wire Along All Underground Conduit Routing. All Grounds Shall Be Tied In At Manhole Locations.
5. Provide A 5/8 Inch X 10 Foot Ground Rod At Each Manhole Location. Attached A #2 Solid Tinned Ground Conductor From The Ground Rod To The Bonding Ribbon In The Manhole.
6. All Manhole Locations And Ductbank Routings Shall Be Coordinated With Existing Underground Utilities And Infrastructure.
7. Contractor Shall Obtain A Private Mark Out Of The Area Of Work. Contractor Also To Coordinate With Local Utility Companies And New Jersey One Call (811) As Required By Those Entities To Identify And Mark Out All Buried Infrastructure And Utilities In The Vicinity Of Proposed Conduit Routing Prior To Any Excavation. Hand Digging In Certain Locations Is Highly Recommended.
8. Coordinate Routing Of Underground Duct Banks With Existing Field Conditions.

**PARTIAL SYMBOLS & ABBREVIATIONS**

Identifier	Description	Identifier	Description
⊙	Existing Manhole	⊙	Detail Identifier
■	New Manhole	⊙	Drawing # (Detail Location)
⚡	Remove Existing Fiber And Pull New Fiber Through Empty Conduit Pathway	⊙	Detail #
⚡	Existing Conduit Pathway Available For New Fiber Installation	⊙	Photo Identification Tag
⚡	No Existing Fiber Available - New Duct Bank, Trenching, And New Fiber Required	MDF	Main Distribution Frame
⊙	Building To Building Span Number	MH	Manhole
		MH#XX	Manhole Identification Tag
		POE	Point Of Entry



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ITEM	DATE	ISSUE DESCRIPTION	ITEM	DATE	ISSUE DESCRIPTION
2	3/15/2022	CONFORMED SET			
1	10/01/2021	ISSUED FOR BID			

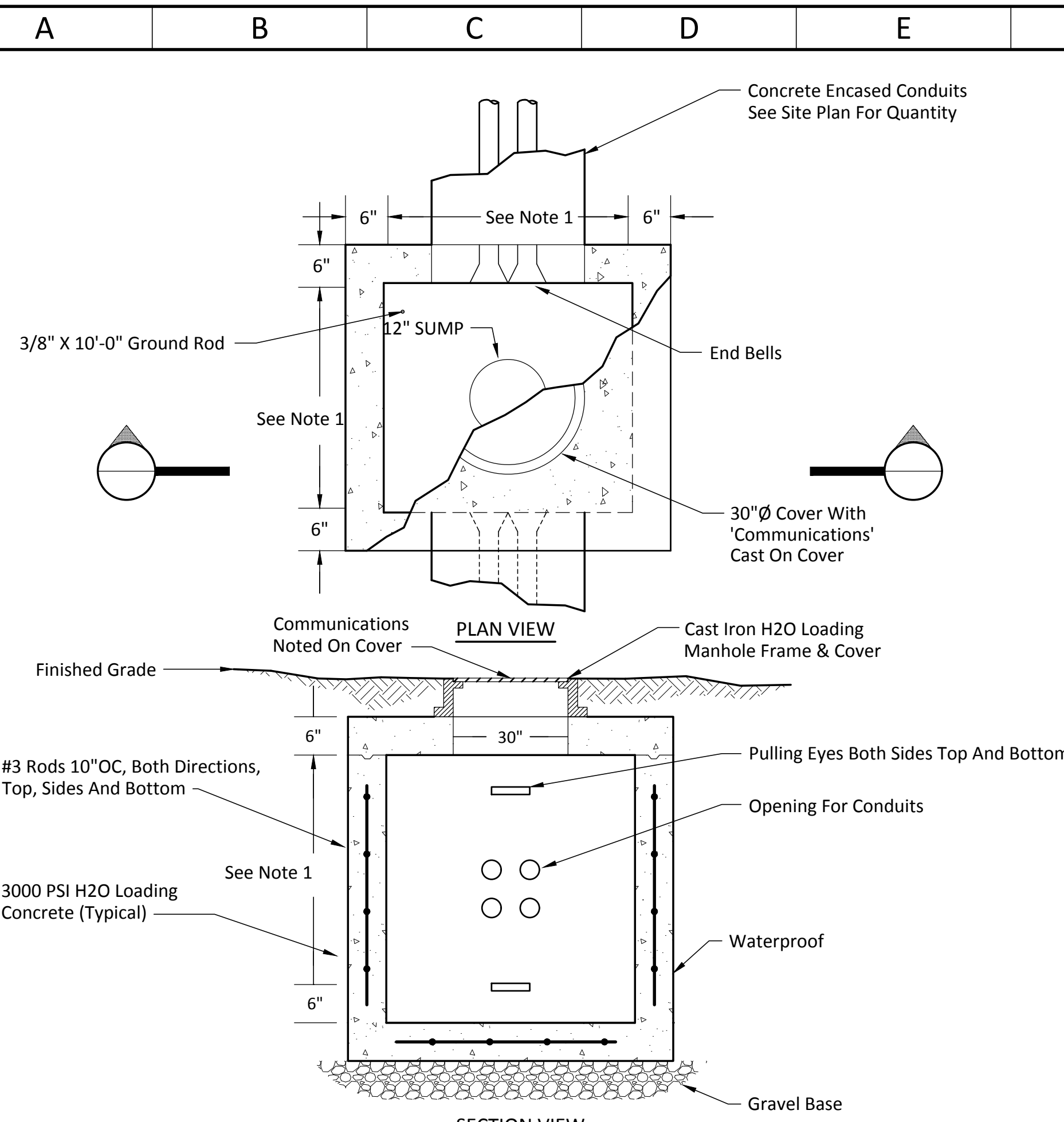
**dlb associates**  
CONSULTING ENGINEERS, P.C.  
265 Industrial Way West, Eatontown, N.J. 07724  
Questions For DLB Call: Anthony Laskosky Phone: 732-829-7351  
DLB Project ID: 47211

**TCNJ THE COLLEGE OF NEW JERSEY**  
TCNJ Project #: IK124 TCNJ Project Manager: Mumtaz Makhdoumi

**CAMPUS FIBER PART PLAN**  
Scale: 1/64"=1'-0"  
16' 32' 64' 128'  
Drawing: TC005  
Detail: 01

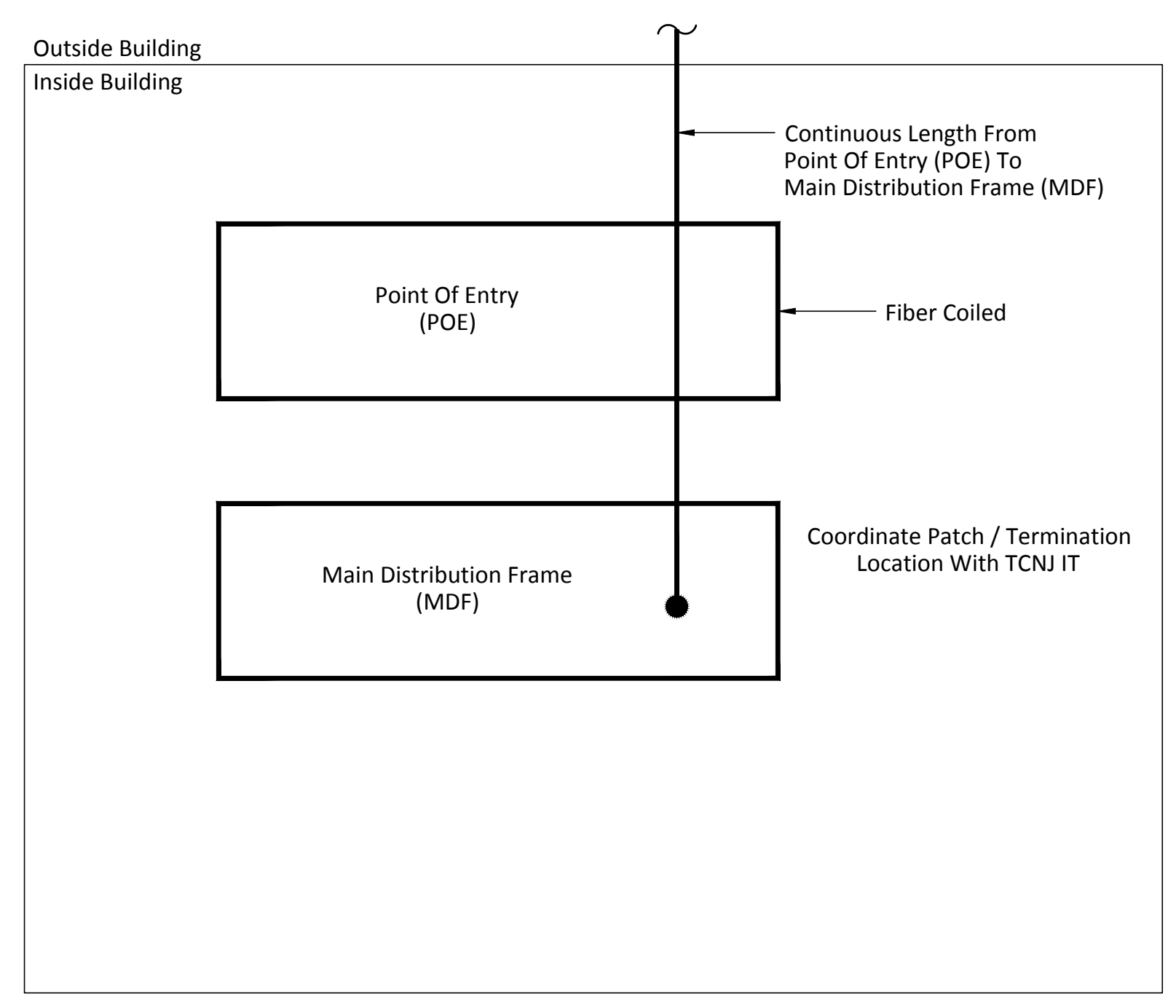
project  
**TCNJ - FIBER INFRASTRUCTURE UPGRADES (FIRE ALARM PROJECT)**  
2000 PENNINGTON ROAD,  
EWING NJ, 08618

title  
**CAMPUS CONDUIT ROUTING PLAN ZONE 1**  
scale AS SHOWN  
drawn by SC  
checked by SG  
date 09/17/2021  
dwg. no.  
**TC005**



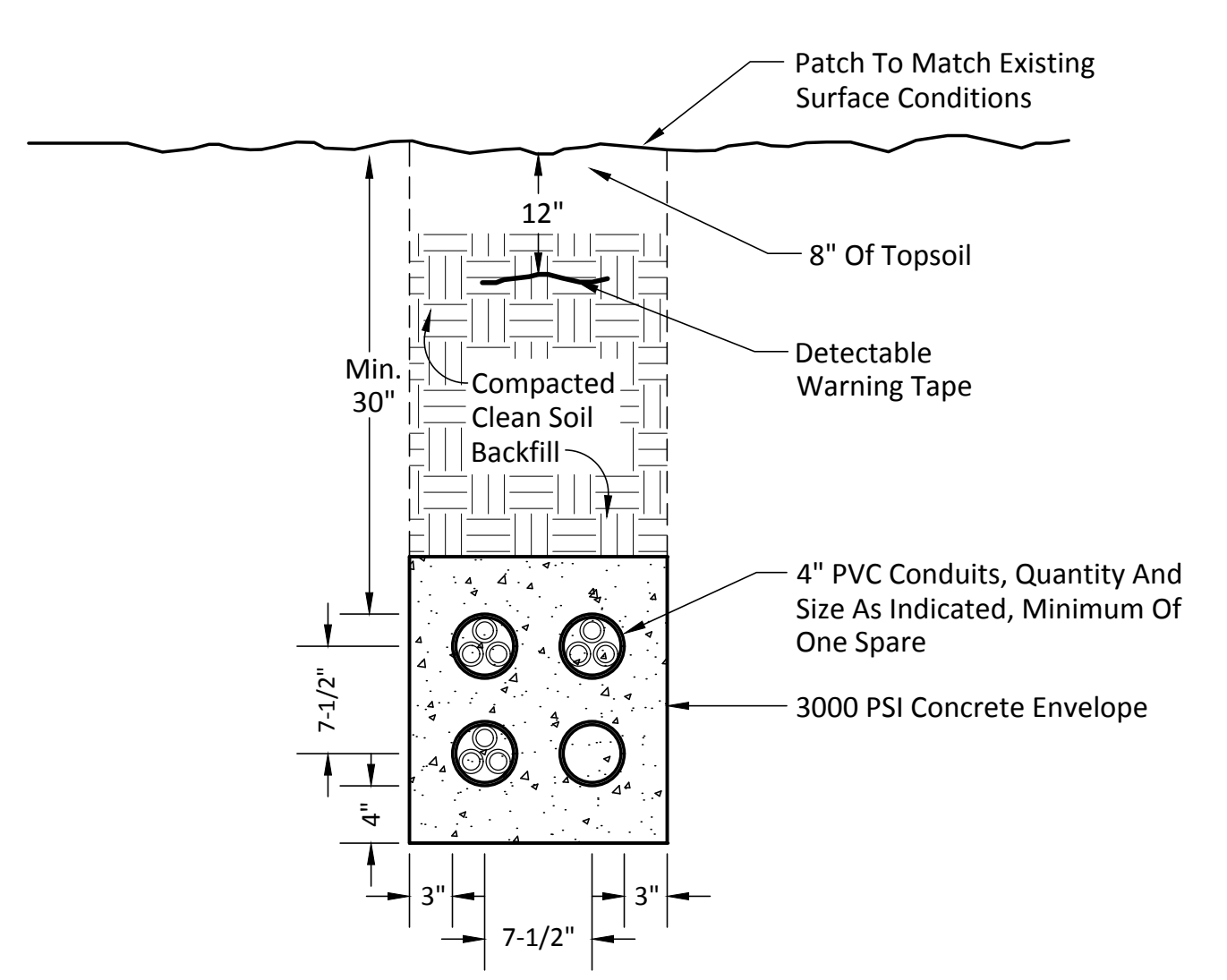
- NOTES:**
- See Campus Plans For Manhole Locations And Size Selections:  
 Small (S) - 4' x 4' x 6' (L x W x D) Interior Dimensions  
 Medium (M) - 6' x 6' x 8' (L x W x D) Interior Dimensions  
 Large (L) - 8' x 8' x 8' (L x W x D) Interior Dimensions
  - Grounding Shall Include Ground Ring "Halo" Within Manhole; 4/0 Bare Copper Secured Around The Perimeter Of The Top Of The Manhole, Cad-Weld To The Ground Rod.
  - Cover Shall Have Rim And "Open Pick" Holes For Access.
  - Cover Frame Shall Be Bolted To The Structure. Any Required Riser Rings Shall Be Secured To Each Other And To The Manhole Top.
  - Cable Racking Assemblies Shall Be Hot Dipped Galvanized Cable Racks With A Plastic Coating Over The Galvanizing, Shall Be Installed In Each Communication Manhole. Racking Supports Shall Extend Floor To Ceiling Of Manhole, With A Minimum Of Three Supports Per Side. Distributed Evenly Across The Wall. Provide 3 Racking Hooks Per Racking Wall. Two Of Which Shall Have 3" Arms And 1 Shall Have 18" Arm.

**COMMUNICATION CONCRETE MANHOLE DETAIL** Scale: NTS Drawing: **G003** Detail: **01**



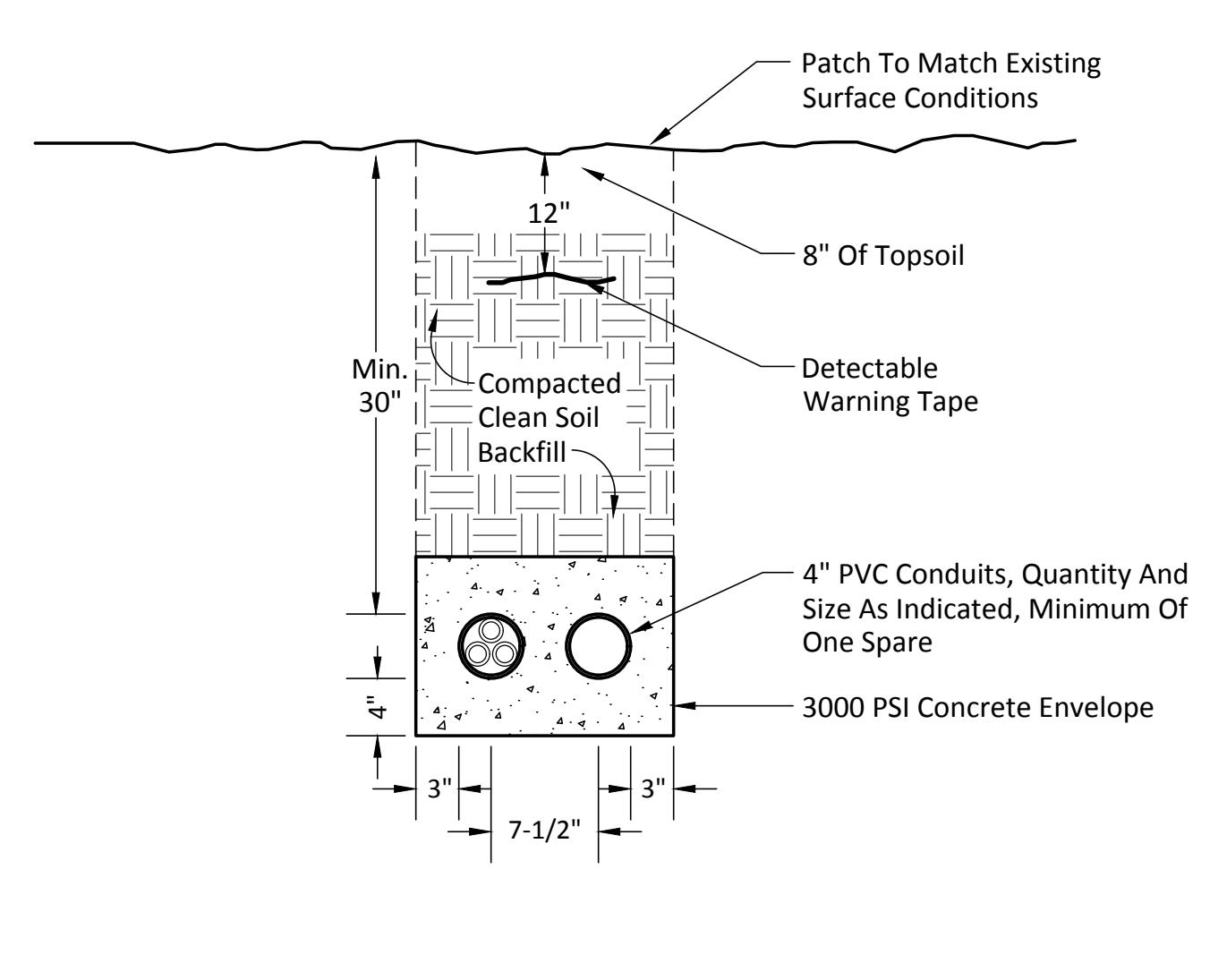
- NOTES:**
- Slack Loop To Be Provided At Manholes As Per Specifications (One In The Run), Building's Point Of Entry (POE), And Building's Main Distribution Frame (MDF). If Exterior Run Between Buildings Exceeds 400Ft., Provide A Second Slack Loop In An Additional Manhole.

**FIBER ENCLOSURE INSTALLATION BLOCK DIAGRAM** Scale: NTS Drawing: **G003** Detail: **05**



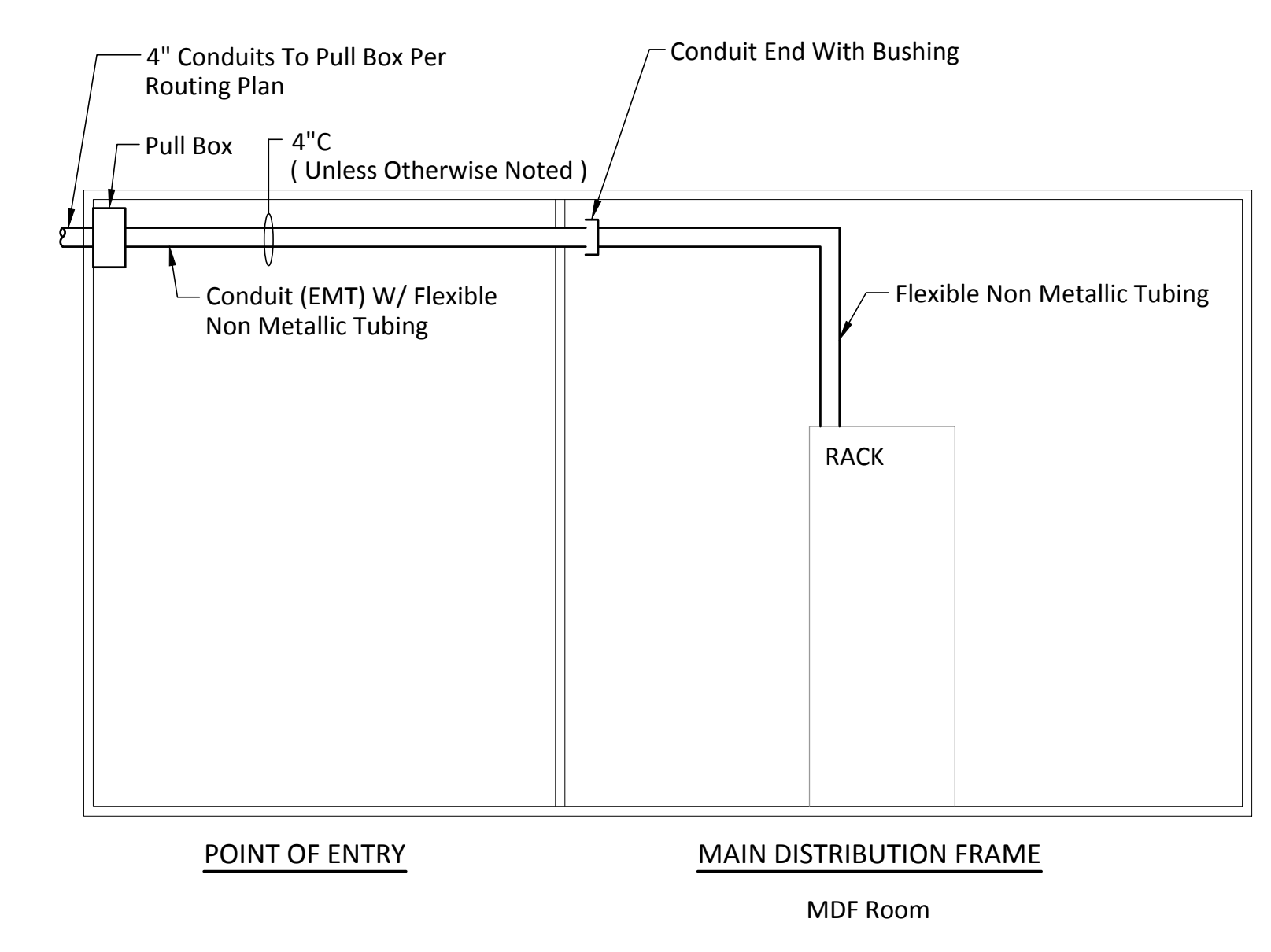
- NOTES:**
- All Depth Measurements Shall Be Measured From Finished Grade To The Top Of The Top Conduit.
  - Minimum Burial Depth Shall Be 30 Inches Unless Otherwise Noted, Or As Required For Short Distances Based On Site Conditions To Avoid Conflicts.
  - Maintain Uniform Spacing Using Conduit Spacers Along The Entire Length (Not Shown For Clarity).
  - Install Detectable Mule Tape In All Conduits; Leave Slack Within Manhole For Access. Label Each Muletape In Accordance With Cable Labeling Requirements.
  - Install 3, 1-1/4" Innerducts In All Active Conduits.
  - Conduits To Be Proven And Cleaned As Part Of The Installation. Proving Involves Dragging A Proving Mandrell Sized To The Conduit, Through The Conduit To Confirm Each Is Capable Of Being Used To Capacity And Has No Blockages, Gross Deformations, Or Snags.
  - New Duct Banks Are Not To Be Supported By Any Existing Structures.
  - Contractor Shall Provide / Complete A Mock Up For Backfilling And Compaction For Review And Approval By The College.

**DUCT BANK DETAIL** Scale: NTS Drawing: **G003** Detail: **02**



- NOTES:**
- All Depth Measurements Shall Be Measured From Finished Grade To The Top Of The Top Conduit.
  - Minimum Burial Depth Shall Be 30 Inches Unless Otherwise Noted, Or As Required For Short Distances Based On Site Conditions To Avoid Conflicts.
  - Maintain Uniform Spacing Using Conduit Spacers Along The Entire Length (Not Shown For Clarity).
  - Install Detectable Mule Tape In All Conduits; Leave Slack Within Manhole For Access. Label Each Muletape In Accordance With Cable Labeling Requirements.
  - Install 3, 1-1/4" Innerducts In All Active Conduits.
  - Conduits To Be Proven And Cleaned As Part Of The Installation. Proving Involves Dragging A Proving Mandrell Sized To The Conduit, Through The Conduit To Confirm Each Is Capable Of Being Used To Capacity And Has No Blockages, Gross Deformations, Or Snags.
  - New Duct Banks Are Not To Be Supported By Any Existing Structures.
  - Contractor Shall Provide / Complete A Mock Up For Backfilling And Compaction For Review And Approval By The College.

**DUCT BANK DETAIL** Scale: NTS Drawing: **G003** Detail: **03**



- NOTES:**
- Coordinate With Existing Ceiling Conditions And TCNJ IT Department Based On Final Routing.
  - Entire Cable Routing Shall Be Enclosed In Pathway (Conduit/ Flexible Non Metallic Tubing). Install 24" X 30" X 18" Pull Box At POE And Other Locations Along POE To MDF Routing where Conduit Exceeds Bend Requirements.
  - Flexible Tubing Complement Continues From OSP Pathway System Via Conduit Into Interior Ceiling Space. Extend Sufficient Flexible Tubing From Conduit Termination To Convey Fiber To Main Distribution Frame.
  - Flexible Tubing Shall Be Routed In Conduit Or Transitioned To Flexible Non Metallic Tubing Where Exposed In Open Ceiling.
  - Refer To Interior Fiber Routing Plan And Specifications For Further Information On Conduit Pathways / Routings.
  - 4" Conduit To Have Three (3) 1-1/4" ENT With Pullstrings.
  - For Routings That Will Utilize Existing Conduits Entering a Building POE: The Conduit From The POE To The MDF Shall Have A Bushing On Both Ends To Prevent Damage To The Cable Jacket During Cable Pulling.

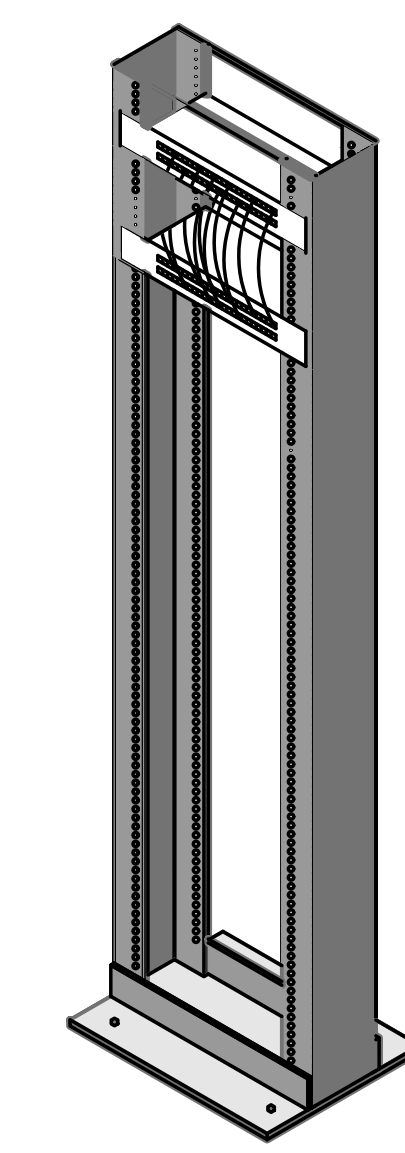
**TYPICAL FIBER PATHWAY ROUTING** Scale: NTS Drawing: **G003** Detail: **04**



**12" DEEP - WALL MOUNTED CABINET**  
 Similar to Chatsworth Part No. 13050-723, THINLINE-II, With Overall Dimensions 36"H X 26"W X 12"D, Black.



**30" DEEP - WALL MOUNTED CABINET**  
 Similar to CUBE-IT Wall-Mount Cabinet; Gen 3; 48"H x 24"W x 30"D (1220 mm x 610 mm x 760 mm); 26U; #12-24 Tapped Rails; Tempered Glass Door; Black



**FLOOR MOUNTED RACK (TWO POST RACK)**



**RACK MOUNTED CABINET**

- NOTES:**
- Coordinate Specific Rack Requirements With TCNJ IT Department.
  - Entire Cable Routing Shall Be Enclosed In Pathway. Provide Junction Boxes At Locations To Facilitate Transitioning Between Pathways. Pull Boxes Shall Also Be Provided As Required Per Routing As Per Specification.
  - Provide All Required Quantities Of Connector Housings, Cassettes, Terminations And Labeling Based On Cable Size Indicated For Each Location For A Complete Installation.

**EQUIPMENT RACK DETAIL** Scale: NTS Drawing: **G003** Detail: **06**

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 Questions For DLB Call: Anthony Laskosky Phone: 732-829-7351  
 TCNJ Project #: IK124 TCNJ Project Manager: Mumtaz Makhdomi

**TCNJ THE COLLEGE OF NEW JERSEY**  
 project: TCNJ - FIBER INFRASTRUCTURE UPGRADES (FIRE ALARM PROJECT)  
 2000 PENNINGTON ROAD, EWING NJ, 08618

title: **DETAILS**  
 scale: AS SHOWN drawn by: SC checked by: SG date: 09/17/2021

dwg. no.: **G003**