

CITY OF TAMPA

FILTER BUILDING

ROOF RETROFIT & SITE

IMPROVEMENTS

CONTRACT
23-C-00013
Site 2 Morris Bridge Filter Building Improvements

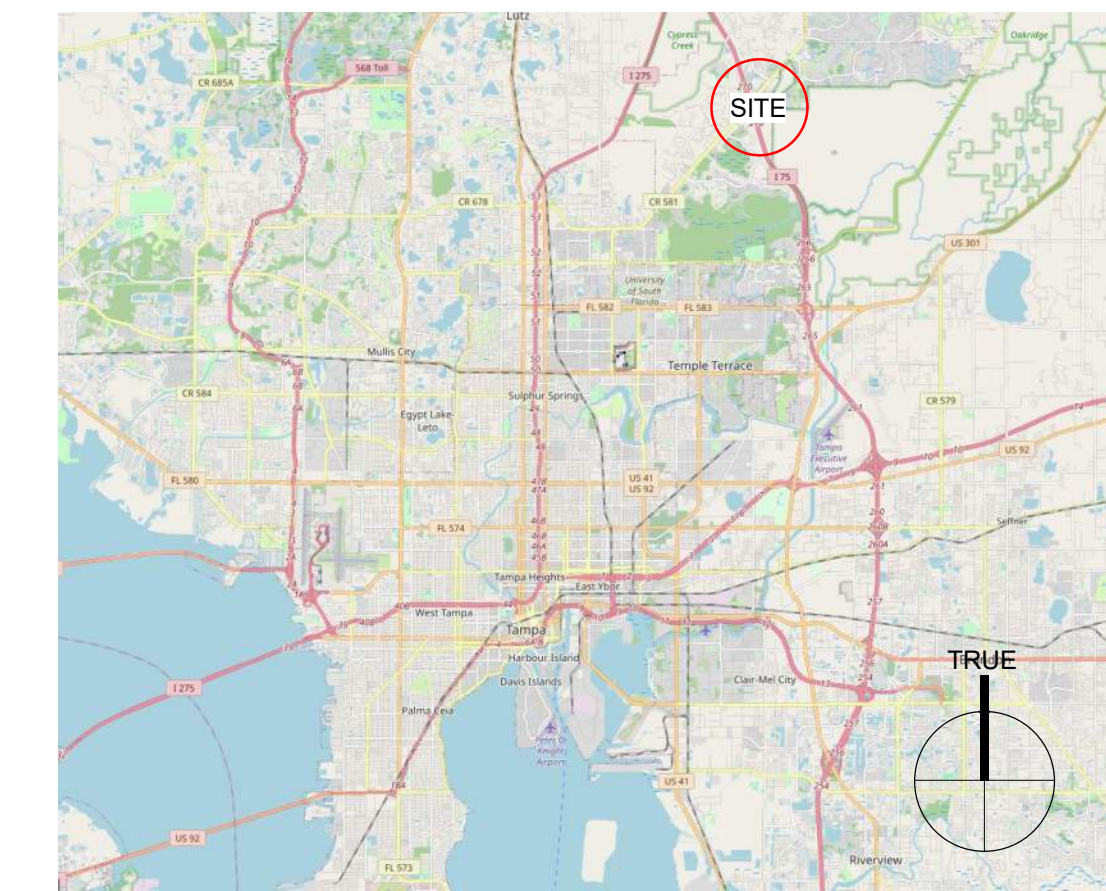
JULY 8, 2022
PROJECT LOCATION:
TAMPA, FLORIDA



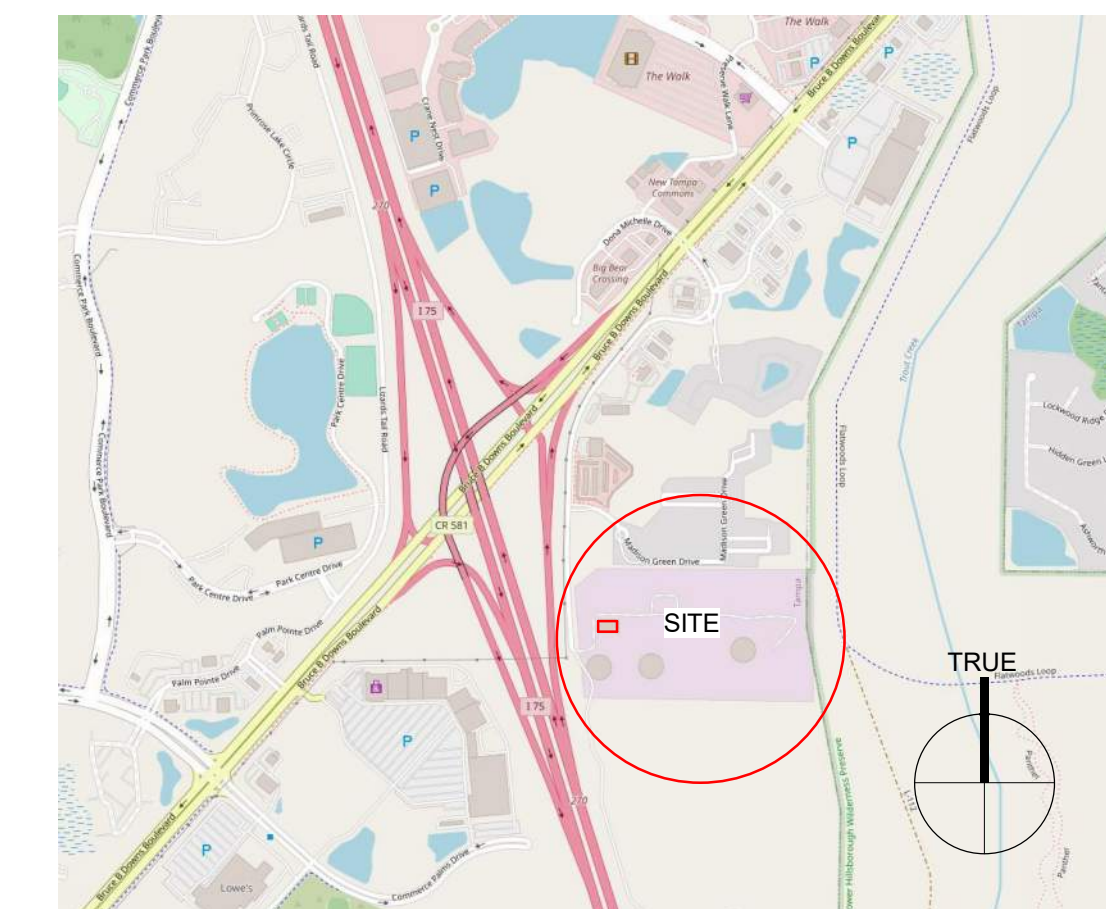
FILTER BUILDING - 17101 Dona Michelle Dr, Tampa, Florida 33647



VICINITY MAP



LOCATION MAP



INDEX OF DRAWINGS

GENERAL	
FL-G-001	COVER SHEET
FL-G-002	SIGNATURE SHEET
CIVIL	
S2-C-100	LEGENDS AND NOTES
S2-C-110	EXISTING CONDITIONS AND DEMOLITION PLAN
S2-C-120	OVERALL SITE PLAN
S2-C-201	STORMWATER DRAIN IMPROVEMENTS
S2-C-501	DETAILS
CIVIL - REFERENCE	
1	TOPOGRAPHIC SURVEY
2	TOPOGRAPHIC SURVEY
3	TOPOGRAPHIC SURVEY
4	TOPOGRAPHIC SURVEY
STRUCTURAL	
FL-S-001	GENERAL NOTES
FL-S-002	SYMBOLS AND NOTATIONS
FL-S-003	THRESHOLD INSPECTION NOTES
FL-S-102	ROOF FRAMING PLAN
FL-S-401	BUILDING SECTIONS AND DETAILS
FL-S-501	TYPICAL CONCRETE DETAILS
FL-S-502	TYPICAL CONCRETE DETAILS
FL-S-511	TYPICAL MASONRY DETAILS
FL-S-521	CONCRETE SECTIONS AND DETAILS
ARCHITECTURAL	
FL-A-001	ARCHITECTURAL ABBREVIATIONS, SYMBOLS AND GENERAL NOTES
FL-A-101	SITE DEMOLITION / RENOVATION PLAN
FL-A-102	FLOOR PLAN AND ELEVATIONS - CHLORINE BUILDING
FL-A-103	FLOOR PLAN AND ELEVATIONS - MAINTENANCE BUILDING
FL-A-201	ROOF PLAN - OVERALL (DEMO)
FL-A-202	ROOF PLAN - OVERALL (NEW)
FL-A-203	PARTIAL ROOF PLAN (WEST)
FL-A-204	PARTIAL ROOF PLAN (EAST)
FL-A-205	ROOF PLANS - ENLARGED STAIRS AND ELEVATOR ENCLOSURE
FL-A-301	BUILDING ELEVATIONS - NORTH & SOUTH
FL-A-302	BUILDING ELEVATIONS - EAST & WEST
FL-A-401	BUILDING SECTIONS
FL-A-402	BUILDING SECTIONS
FL-A-403	WALL SECTIONS
FL-A-501	ROOF DETAILS
FL-A-502	ROOF DETAILS
FL-A-503	MISCELLANEOUS DETAILS

MECHANICAL	
FL-M-001	MECHANICAL LEGEND
FL-M-101	ROOF MOUNTED CONDENSING UNITS RELOCATION PLANS
FL-M-102	FILTER TANK LEVEL FLOOR PLAN AND SECTIONS AND FAN SCHEDULE
PROCESS MECH	
FL-D-100	SITE 2 DRAWING INDEX
FL-D-100A	SITE 2 PROCESS-MECHANICAL DEMOLITION LEGEND
FL-D-101	SITE 2 FILTER YARD PIPING DEMOLITION PLAN
FL-D-102	SITE 2 FILTER PIPE GALLERY DEMOLITION PLAN AND SECTIONS
FL-D-103	SITE 2 REACTOR AREA DEMOLITION PLAN
FL-D-104	SITE 2 REACTOR AREA DEMOLITION PLAN AND SECTIONS
FL-D-105	SITE 2 REACTOR AREA DEMOLITION PLAN
FL-D-106	SITE 2 REACTOR AREA DEMOLITION PLAN
FL-D-201	SITE 2 REACTOR AREA DEMOLITION SECTION
FL-D-202	SITE 2 REACTOR AREA DEMOLITION SECTION
FL-D-203	SITE 2 REACTOR AREA DEMOLITION SECTION
ELECTRICAL	
S2-E-001	GENERAL NOTES, SYMBOL LEGEND AND ABBREVIATIONS
S2-ESD100	SITE PLAN - SOUTH - ELECTRICAL DEMOLITION
S2-ESD101	SITE PLAN - NORTH - ELECTRICAL DEMOLITION
S2-ELD101	PIPE GALLERY - LIGHTING DEMOLITION
S2-ELD102	FILTER LEVEL - LIGHTING DEMOLITION
S2-EPD102	FILTER LEVEL - POWER DEMOLITION
S2-EDD102	ROOF PLAN - LIGHTNING PROTECTION DEMOLITION
S2-ED600	RISER DIAGRAM - ELECTRICAL DEMOLITION
S2-ES100	SITE PLAN - ELECTRICAL
S2-EP100	FILTER BUILDING LEVEL 1 - POWER
S2-EP101	PIPE GALLERY - POWER
S2-EP103	CHLORINE BUILDING PLAN - POWER
S2-EG102	ROOF PLAN - LIGHTNING PROTECTION
S2-E-500	DETAILS

Jacobs

5401 W. KENNEDY BLVD.
 STE 300 & 900
 TAMPA, FL 33609
 P: (813) 282-3500
 WWW.JACOBS.COM

© Jacobs Engineering Group Inc. 2022 ALL RIGHTS RESERVED

NO.	DATE	DR	REVISION	CHK	APVD
					M. Johnson
					M. Kussler
					D. Richardson, Jr.
					M. Johnson



Project Title:
FILTER BUILDING ROOF RETROFIT & SITE IMPROVEMENTS
 Drawing Title:
COVER SHEET

Date: 07/08/2022
 Proj. No.: D3237903
 Drawing No.:

FL-G-001

100% CD SET

THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY MARK A. JOHNSON, AIA USING A DIGITAL SIGNATURE AND DATE.



PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES

JACOBS 200 S. ORANGE AVE. SUITE 900 ORLANDO, FLORIDA, 32801 FLORIDA ARCHITECTURAL CORPORATION LICENSE #AAC001790 FLORIDA ENGINEERING CERTIFICATE AUTHORIZATION #2822 MARK ALDEN JOHNSON, AIA, NCARB FLORIDA REG. NO. AR96440

THE ABOVE NAMED PROFESSIONAL ARCHITECT SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G1-16.005, F.A.C.

Table with 2 columns: Code, Description. Includes FL-G-001 COVER SHEET and FL-G-002 SIGNATURE SHEET.

Table with 2 columns: Code, Description. Includes ARCHITECTURAL sheets like FL-A-001 ARCHITECTURAL ABBREVIATIONS, SYMBOLS AND GENERAL NOTES, FL-A-101 SITE DEMOLITION / RENOVATION PLAN, etc.

THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY JOSE A. RAMOS, PE USING A DIGITAL SIGNATURE AND DATE.



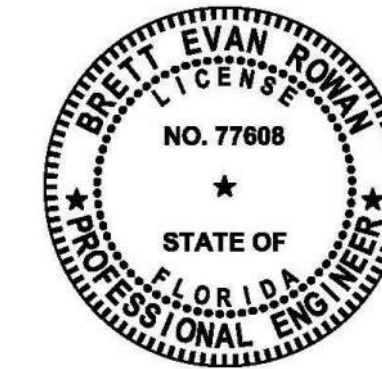
PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES

JACOBS 200 S. ORANGE AVE. SUITE 900 ORLANDO, FLORIDA, 32801 FLORIDA ARCHITECTURAL CORPORATION LICENSE #AAC001790 FLORIDA ENGINEERING CERTIFICATE AUTHORIZATION #2822 JOSE A. RAMOS, PE FLORIDA REG. NO. 63120

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

Table with 2 columns: Code, Description. Includes CIVIL sheets like S2-C-100 LEGENDS AND NOTES, S2-C-110 EXISTING CONDITIONS AND DEMOLITION PLAN, etc.

THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY BRETT EVAN ROWAN, PE USING A DIGITAL SIGNATURE AND DATE.



PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES

JACOBS 200 S. ORANGE AVE. SUITE 900 ORLANDO, FLORIDA, 32801 FLORIDA ARCHITECTURAL CORPORATION LICENSE #AAC001790 FLORIDA ENGINEERING CERTIFICATE AUTHORIZATION #2822 BRETT EVAN ROWAN, PE FLORIDA REG. NO. 77608

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

Table with 2 columns: Code, Description. Includes STRUCTURAL sheets like FL-S-001 GENERAL NOTES, FL-S-002 SYMBOLS AND NOTATIONS, etc.

THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY HENRY L. POSTROZNY, P.E. USING A DIGITAL SIGNATURE AND DATE.



PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES

JACOBS 200 S. ORANGE AVE. SUITE 900 ORLANDO, FLORIDA, 32801 FLORIDA ARCHITECTURAL CORPORATION LICENSE #AAC001790 FLORIDA ENGINEERING CERTIFICATE AUTHORIZATION #2822 HENRY L. POSTROZNY, P.E. FLORIDA REG. NO. 33223

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

Table with 2 columns: Code, Description. Includes MECHANICAL sheets like FL-M-001 MECHANICAL LEGEND, FL-M-101 ROOF MOUNTED CONDENSING UNITS RELOCATION PLANS, etc.

THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY ABEL VALIENTE, P.E. USING A DIGITAL SIGNATURE AND DATE.



PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES

JACOBS 200 S. ORANGE AVE. SUITE 900 ORLANDO, FLORIDA, 32801 FLORIDA ARCHITECTURAL CORPORATION LICENSE #AAC001790 FLORIDA ENGINEERING CERTIFICATE AUTHORIZATION #2822 ABEL VALIENTE, P.E. FLORIDA REG. NO. 70128

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

Table with 2 columns: Code, Description. Includes PROCESS MECH sheets like FL-D-100 SITE 2 DRAWING INDEX, FL-D-100A SITE 2 PROCESS-MECHANICAL DEMOLITION LEGEND, etc.

THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY DONALD ARSENAULT-FLACHMEIER, PE USING A DIGITAL SIGNATURE AND DATE.



PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES

JACOBS 200 S. ORANGE AVE. SUITE 900 ORLANDO, FLORIDA, 32801 FLORIDA ARCHITECTURAL CORPORATION LICENSE #AAC001790 FLORIDA ENGINEERING CERTIFICATE AUTHORIZATION #2822 DONALD ARSENAULT-FLACHMEIER, PE FLORIDA REG. NO. 76047

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

Table with 2 columns: Code, Description. Includes ELECTRICAL sheets like S2-E-001 GENERAL NOTES, SYMBOL LEGEND AND ABBREVIATIONS, S2-ESD100 SITE PLAN - SOUTH - ELECTRICAL DEMOLITION, etc.



5401 W. KENNEDY BLVD. STE 300 & 900 Tampa, FL 33609 P:(813) 282-3500 www.jacobs.com

© Jacobs Engineering Group Inc. 2022 ALL RIGHTS RESERVED

Revision table with columns: NO., DATE, DSGN, DR, M. Johnson, CHK, M. Kussler, APVD, M. Johnson, BY, APVD, M. Johnson.

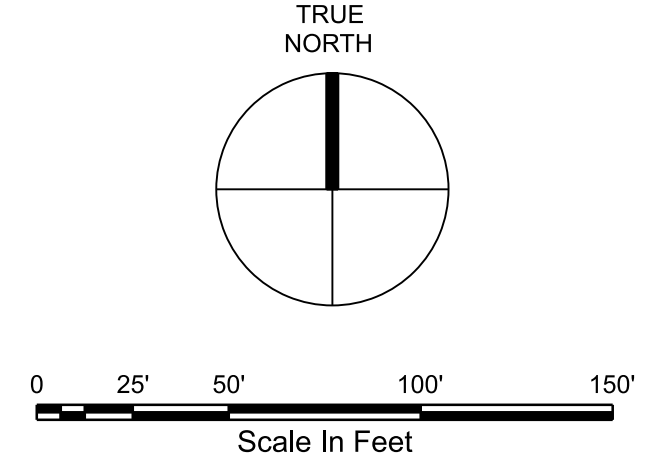


Project Title: FILTER BUILDING ROOF RETROFIT & SITE IMPROVEMENTS Drawing Title: SIGNATURE SHEET

Date: 07/08/2022 Proj. No.: D3237903 Drawing No.:

FL-G-002

100% CD SET



GENERAL NOTES

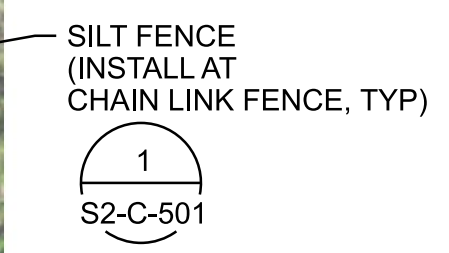
- SEE FL-D-SERIES DRAWINGS FOR ASBUILT DRAWINGS OF EXISTING PLANT AND THE ASSOCIATED LIMITS OF DEMOLITION FOR THE PLANT INFRASTRUCTURE.
- UNLESS OTHERWISE INDICATED, THE EXISTING BURIED YARD PIPING WITHIN THE LIMITS OF THE TREATMENT PLANT DEMOLITION IS INACTIVE. THE INACTIVE YARD PIPING SHALL BE ABANDONED IN PLACE. PIPING WITHIN VAULTS AND THE CONCRETE VAULTS SHALL BE REMOVED COMPLETELY. SEE FL-D-SERIES DRAWINGS FOR ADDITIONAL GUIDANCE FOR ABANDONING YARD PIPING.

DEMOLITION AREAS

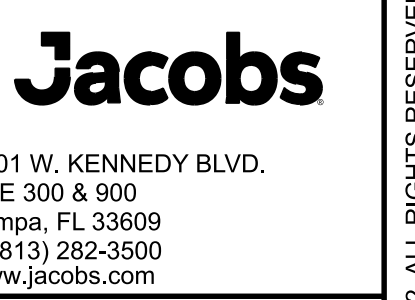
	ASPHALT & CONC PVMT DEMO	19,010 SF ±
	BUILDING, MISC VAULT AND FACILITY DEMO	4,870 SF ±
	OPEN TANK DEMO	11,800 SF ±
TOTAL AREA DEMO		35,680 SF ±

DEMOLITION KEY NOTES

- DEMO GRAVITY THICKNER TANK AND CONNECTING STAIRS, PUMP STATION AND ABOVE-GRADE PIPING
- DEMO MISC VAULTS AND CUT & CAP PIPING WITHIN 3' OF EXCAVATED GROUND SURFACE
- DEMO TANKS AND STEEL SUPPORT STRUCTURE (1 OF 14)
- DEMO PRILL PIT
- DEMO CHEMICAL FEED BUILDING
- DEMO CONC PAVEMENT SUPPORTING TANK SUPPORT STRUCTURAL
- DEMO 35± LF OF TRENCH DRAINS
- DEMO PRILL PIT
- SAW CUT ASPHALT PAVEMENT AND DEMO
- DEMO RECLAIM TANK
- DEMO AMMONIA STORAGE TANK, PAD AND BOLLARDS
- DEMO CONC SIDEWALK, PAVEMENT AND ASPHALT FOR NEW STORM PIPE INSTALLATION



ASSUMED JURISDICTIONAL WETLAND SOUTH OF EXISTING FENCE (TYP)



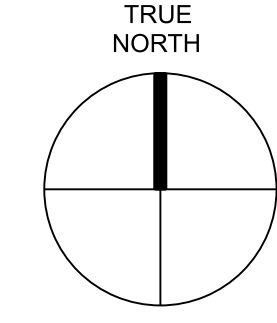
NO.	DATE	REVISION	CHK	APVD



Project Title: **FILTER BUILDING ROOF RETROFIT & SITE IMPROVEMENTS**
 Drawing Title: **EXISTING CONDITIONS AND DEMOLITION PLAN**
 Date: 07/08/2022
 Proj. No.: D3237903
 Drawing No.: **S2-C-110**

©Jacobs Engineering Group Inc. 2022 ALL RIGHTS RESERVED

100% CD SET

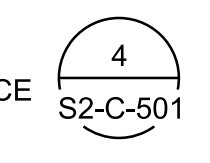


GENERAL NOTES

1. THE NEW ROOF OVER THE OPEN TANKS ON TOP OF THE EXISTING ADMINISTRATION AND FILTER BUILDING WILL ADD APPROXIMATELY 11,300 SF OF IMPERVIOUS RUNOFF TO THE SITE. THE NEW ROOF WILL HAVE DOWNSPOUTS AND THESE DOWNSPOUTS WILL BE COLLECTED AND CONVEYED TO THE EXISTING STORMWATER PONDS IN THE SOUTHEAST CORNER OF THE SITE.
2. SEE FL-D-SERIES DRAWINGS FOR DEMOLITION DRAWINGS OF THE EXISTING INACTIVE PLANT.
3. THE TOTAL PAVEMENT, BUILDING, AND OTHER MISCELLANEOUS AREA FOR DEMOLITION IS APPROXIMATELY 35,680 SF. THIS AREA IS PROPOSED TO BE SEEDED AND MULCHED (SEE GREEN HATCHED AREA). ADDITIONALLY, THERE IS APPROXIMATELY 0.9 ACRES ASSOCIATED WITH THE REMOVAL OF THE STOCK PILE THAT SHALL BE SEEDED AND MULCHED. SEE SHEET S2-C-110 FOR ADDITIONAL INFORMATION.
4. THE THREE EXISTING STORMWATER PONDS ORIGINALLY SERVED A DUAL PURPOSE. ONE PURPOSE WAS FOR STORMWATER MANAGEMENT AND THE OTHER WAS PERCOLATION PONDS FOR REJECT WATER ASSOCIATED WITH THE ORIGINAL PLANT THAT IS INACTIVE. CURRENTLY, THE PRIMARY USE OF THE PONDS IS FOR STORMWATER MANAGEMENT AND TO RECEIVE INFREQUENT BLOWOFF FLUSHING WATER FROM TRANSMISSION PIPE MAINTENANCE ACTIVITIES.



GRAVEL EQUIPMENT LAYDOWN AREA (9,000 SF). GRAVEL SURFACE SHALL MATCH FLUSH WITH TOP OF EXIST UTILITY VAULTS.



SEE DWG S2-C-201 FOR STORMWATER DRAIN IMPROVEMENTS TO COLLECT THE GUTTER DISCHARGE FROM THE NEW ROOF OF THE EXISTING FILTER BUILDING. ALSO, SEE NOTES 2 AND 3.

SEE EXISTING CONDITIONS AND DEMOLITION PLAN (DWG S2-C-110) FOR DEMOLITION OF EXISTING INACTIVE PLANT AREAS. GREEN HATCHING SHOWS DEMOLITION AREAS AND THE PROPOSED AREA TO BE SEEDED AND MULCHED (SEE NOTE 3).

SEED AND MULCH DISTURBED AREAS FROM REMOVAL OF THE SLUDGE AND SOIL STOCKPILE (SEE NOTE 3).

FLUSH EXIST STORM 24" PIPE TO REMOVE DEBRIS

REMOVE SEDIMENT AND VEGETATION 5' MIN AROUND EXIST 24" OUTFALLS

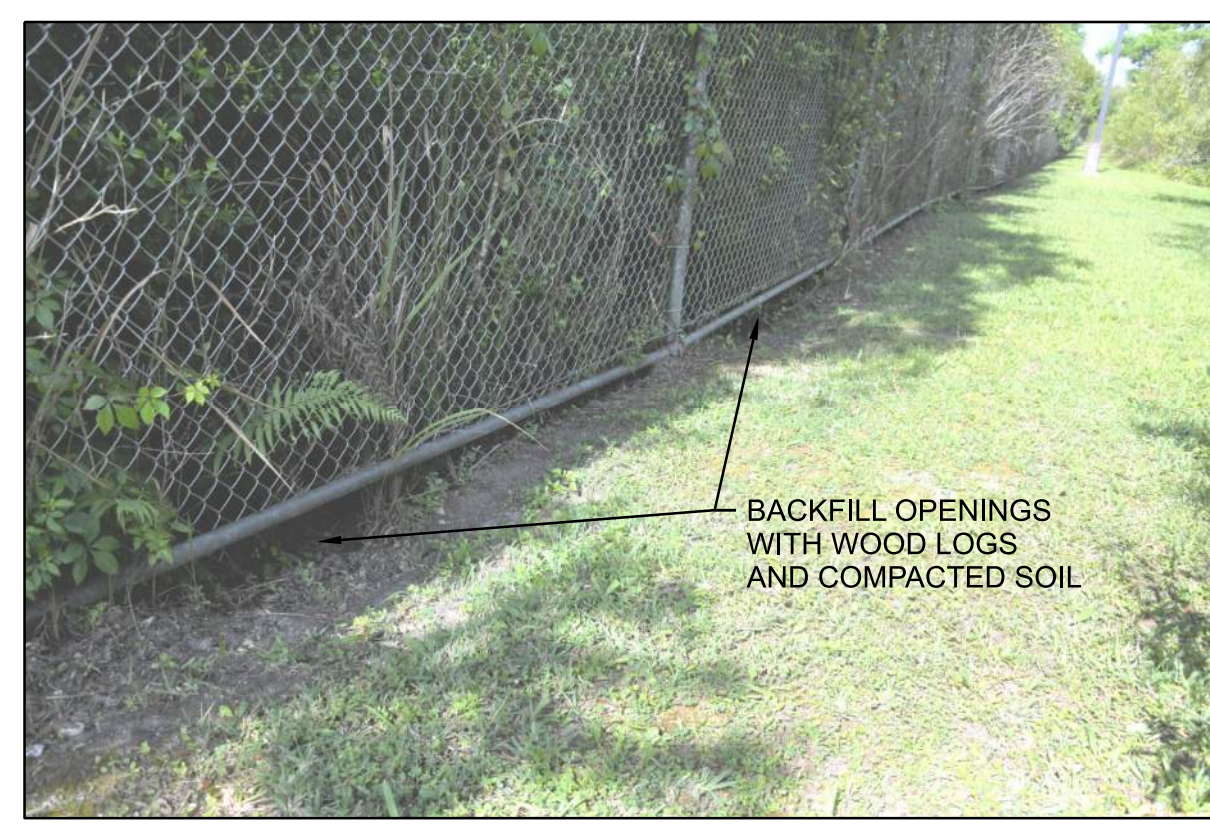
CLEAR PONDS' BOTTOM FROM NUISANCE SPECIES (OBSERVED NUISANCE SPECIES, INCLUDE BUT NOT LIMITED TO:
 - CAROLINA WILLOW (SALIX CAROLINIANA)
 - CATTAILS (TYPHA SP.)
 - PRIMROSE WILLOW (LUDWIGIA PERUVIANA)
 - GROUNDSEL TREE (BACCHARIS HALIMIFOLIA)

AFTER CLEARING PONDS' BOTTOM FROM NUISANCE SPECIES REPLANT AS FOLLOW:
 • POND BOTTOM UP TO 1 FT ABOVE TOE OF EMBANKMENT:
 - PICKERELWEED (PONTEDERIA CORDATA)
 - SPIKERUSH (ELEOCHARIS PALUSTRIS)
 - ALIGATOR FLAG (THALIA GENICULATE)
 • FROM 1 FT ABOVE TOE OF EMBANKMENT TO TOP OF BANK:
 - CORDGRASS (SPARTINA BAKERI)
 - FAKAHATCHEE GRASS (TRIPSACUM DACTYLOIDES)
 • ALL NEW PLANT SPECIES SHALL BE PLANTED 3 FOOT ON CENTER FROM NEW PLANTS AND EXISTING VEGETATION
 • MINOR REGRADING MAY BE NEEDED TO REPAIR POND'S SLOPES AND MAINTAIN A FLAT BOTTOM

MOW SIDE SLOPES OF ALL THREE PONDS TO WATERS EDGE

FLUSH EXIST (2) 12" DIP PIPES AND REMOVE SEDIMENT AND VEGETATION 5' MIN FROM OUTFALL

INSPECT EXISTING FENCE AND BACKFILL OPENINGS WITH WOOD LOGS AND COMPACTED SOIL (SEE PHOTO INSERT)



FENCE REPAIR
NTS

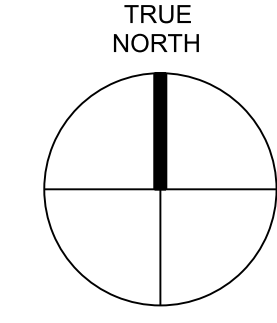
NO.	DATE	DR	DESIGN	CHK	BY
		J RAMOS		C CHILDRESS	J RAMOS
				A MALONE	



Project Title:
FILTER BUILDING ROOF RETROFIT & SITE IMPROVEMENTS

Drawing Title:
OVERALL SITE PLAN

Date: 07/08/2022
 Proj. No.: D3237903
 Drawing No.: S2-C-120



GENERAL NOTES

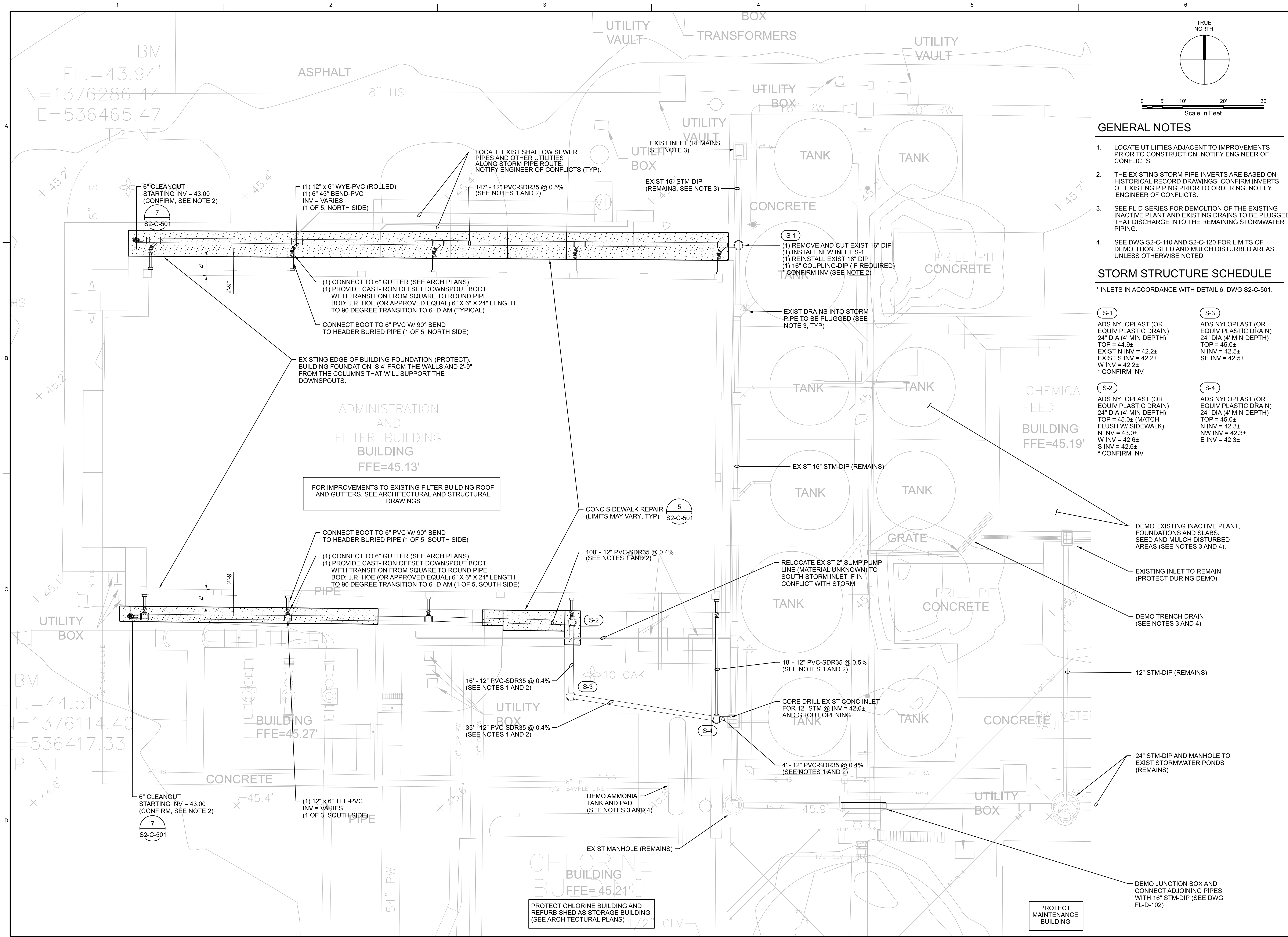
- LOCATE UTILITIES ADJACENT TO IMPROVEMENTS PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF CONFLICTS.
- THE EXISTING STORM PIPE INVERTS ARE BASED ON HISTORICAL RECORD DRAWINGS. CONFIRM INVERTS OF EXISTING PIPING PRIOR TO ORDERING. NOTIFY ENGINEER OF CONFLICTS.
- SEE FL-D-SERIES FOR DEMOLITION OF THE EXISTING INACTIVE PLANT AND EXISTING DRAINS TO BE PLUGGED THAT DISCHARGE INTO THE REMAINING STORMWATER PIPING.
- SEE DWG S2-C-110 AND S2-C-120 FOR LIMITS OF DEMOLITION. SEED AND MULCH DISTURBED AREAS UNLESS OTHERWISE NOTED.

STORM STRUCTURE SCHEDULE

* INLETS IN ACCORDANCE WITH DETAIL 6, DWG S2-C-501.

NO.	DATE	DR	CHK	REVISION	BY	APVD
						J RAMOS
						A MALONE
						C CHILDRESS
						J RAMOS

S-1	ADS NYLOPLAST (OR EQUIV PLASTIC DRAIN) 24" DIA (4" MIN DEPTH) TOP = 44.9± EXIST N INV = 42.2± EXIST S INV = 42.2± W INV = 42.2± * CONFIRM INV	S-3	ADS NYLOPLAST (OR EQUIV PLASTIC DRAIN) 24" DIA (4" MIN DEPTH) TOP = 45.0± N INV = 42.5± SE INV = 42.5±
S-2	ADS NYLOPLAST (OR EQUIV PLASTIC DRAIN) 24" DIA (4" MIN DEPTH) TOP = 45.0± (MATCH FLUSH W/ SIDEWALK) N INV = 43.0± W INV = 42.6± S INV = 42.6± * CONFIRM INV	S-4	ADS NYLOPLAST (OR EQUIV PLASTIC DRAIN) 24" DIA (4" MIN DEPTH) TOP = 45.0± N INV = 42.3± NW INV = 42.3± E INV = 42.3±



						J RAMOS
						A MALONE
						C CHILDRESS
						J RAMOS



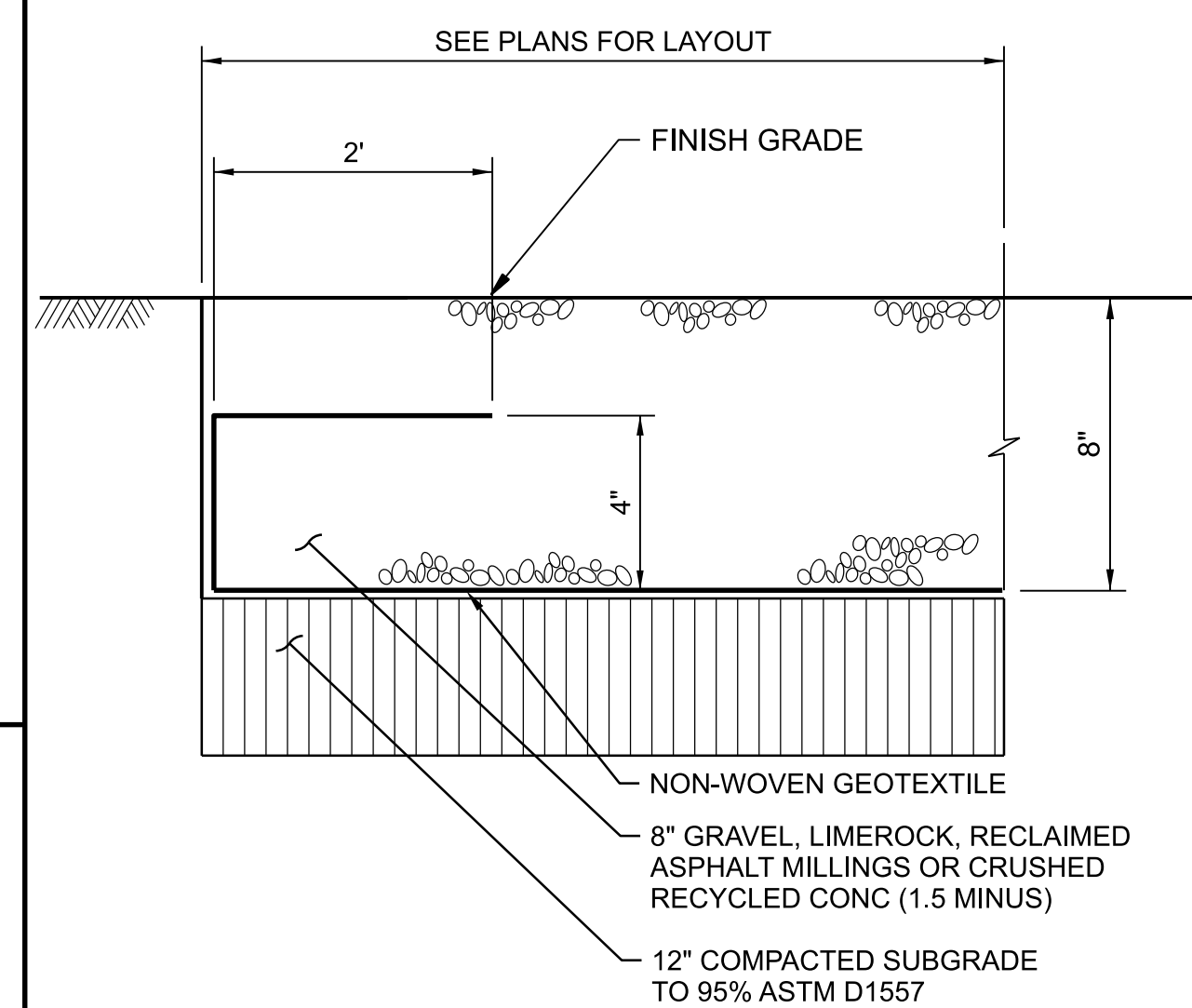
Project Title:
FILTER BUILDING ROOF RETROFIT & SITE IMPROVEMENTS

Drawing Title:
STORMWATER DRAIN IMPROVEMENTS

Date: 07/08/2022

Proj. No.: D3237903

Drawing No.: S2-C-201



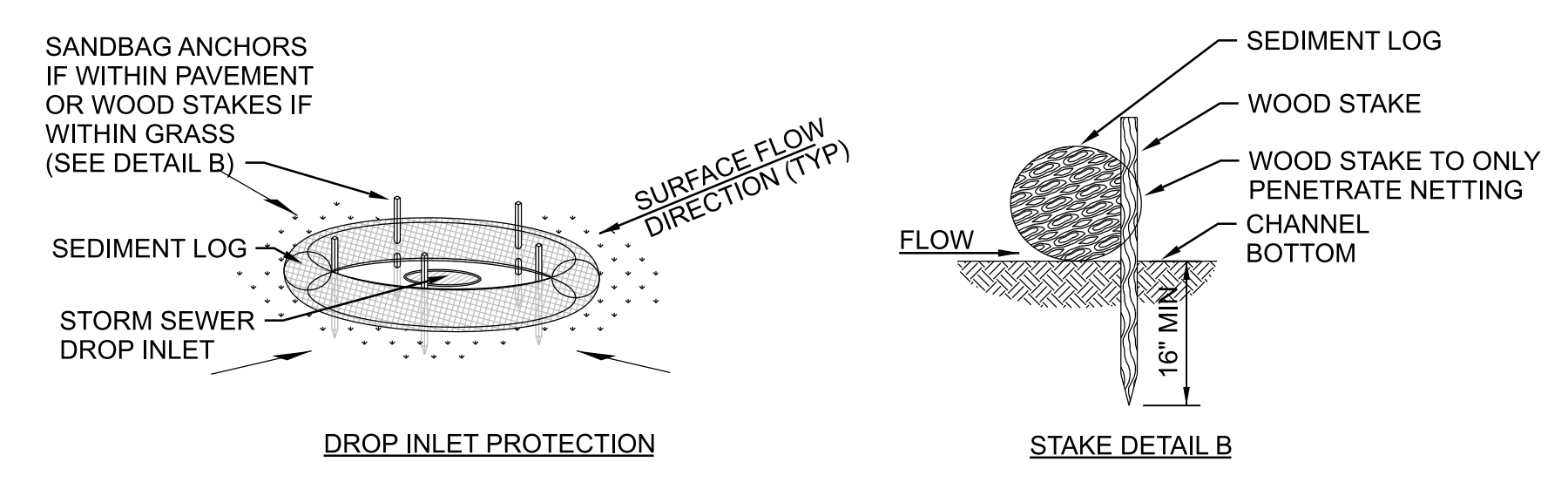
- SECTION 32 11 23 AGGREGATE BASE COURSE & GRAVEL SURFACE
- AGGREGATE OR GRAVEL SURFACE IN ACCORDANCE WITH FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION (FDOT SPEC).
 - GRAVEL IN ACCORDANCE WITH FDOT SPEC SECTION 901-2.1, GRAVELS.
 - LIMEROCK IN ACCORDANCE WITH FDOT SPEC SECTION 901-2.3, LIMESTONE.
 - CRUSHED RECYCLED CONCRETE IN ACCORDANCE WITH FDOT SPEC SECTION 901-5, RCA.
 - RECLAIM ASPHALT MILLINGS IN ACCORDANCE WITH FDOT SPEC SECTION 283, RECLAIM ASPHALT PAVEMENT BASE.
 - AGGREGATE GRADATION SHALL PASS THE NO. 4 SIEVE (MINUS 1.5 INCHES).
 - SUBGRADE FOR GRAVEL SURFACE COMPACTED TO 95% OF ASTM D1557.
 - GEOTEXTILE SHALL BE MEDIUM WEIGHT (6 TO 8 OZ) NON-WOVEN FABRIC IN ACCORDANCE WITH AASHTO M-288, CLASS 1.
 - PLACE AGGREGATE AND BLADE TO ACHIEVE SMOOTH LEVEL SURFACE. ROLL SURFACE WITH SEVERAL OVERLAPPING PASSES FOR COMPACTION.

4 AGGREGATE SURFACE
NTS

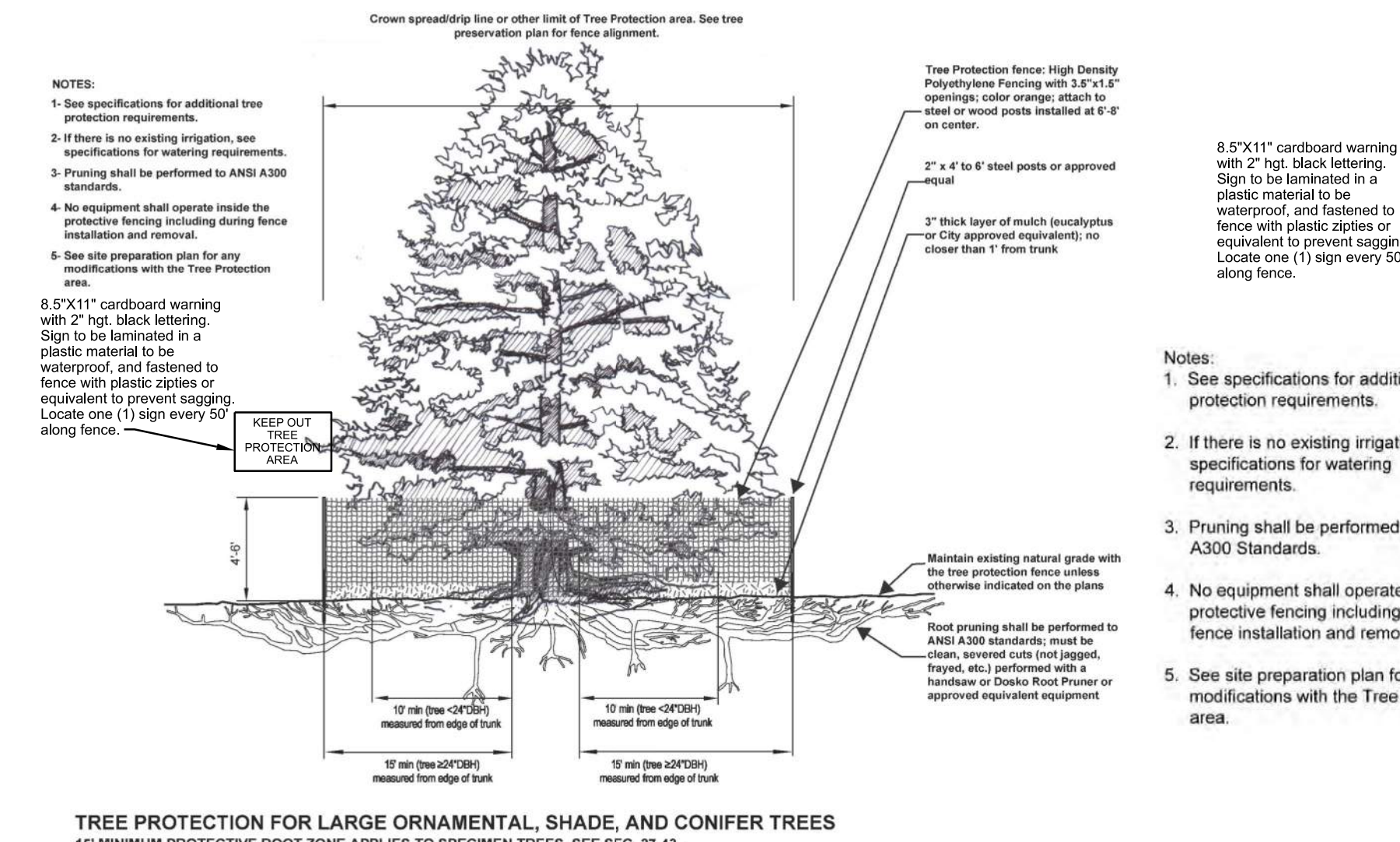
NO.	DATE	BY	APVD
DSGN		J RAMOS	
DR			
CHK	REVISION		
C CHILDRESS		A MALONE	
APVD			



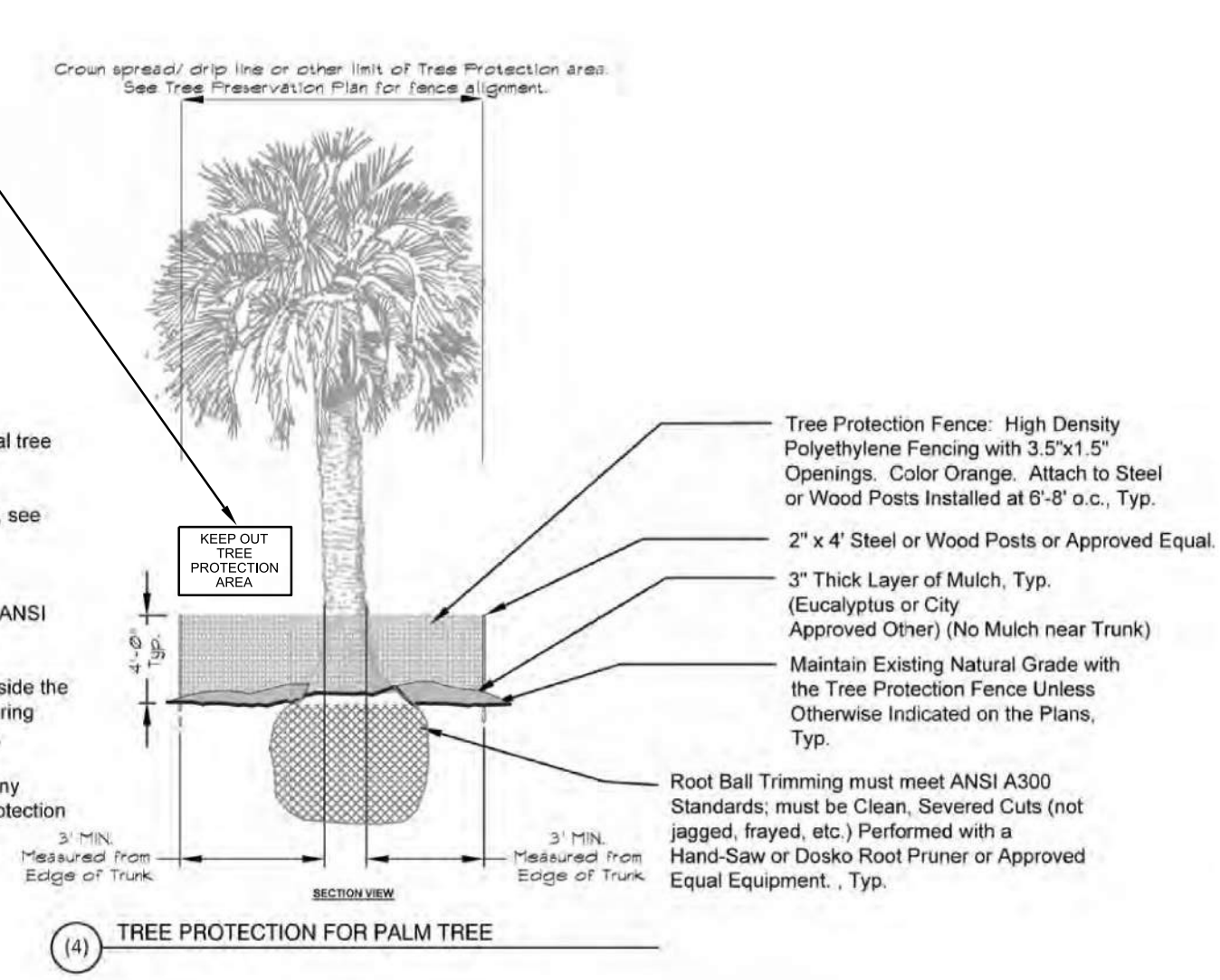
Project Title:	FILTER BUILDING ROOF RETROFIT & SITE IMPROVEMENTS
Drawing Title:	DETAILS
Date:	07/08/2022
Proj. No.:	D3237903
Drawing No.:	S2-C-501



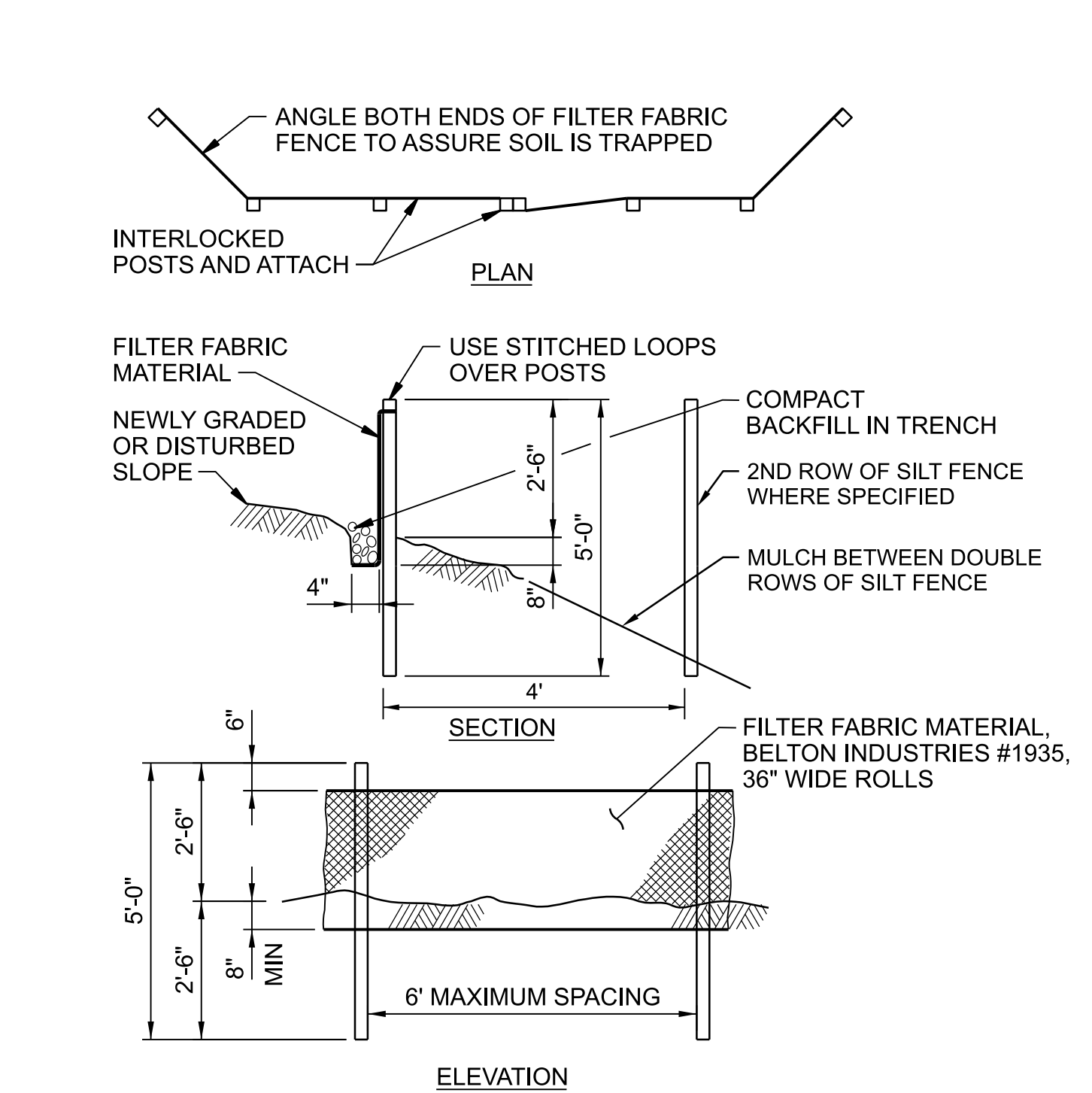
2 STORM INLET PROTECTION
NTS



3 TREE BARRICADE FOR PROTECTED TREES
NTS

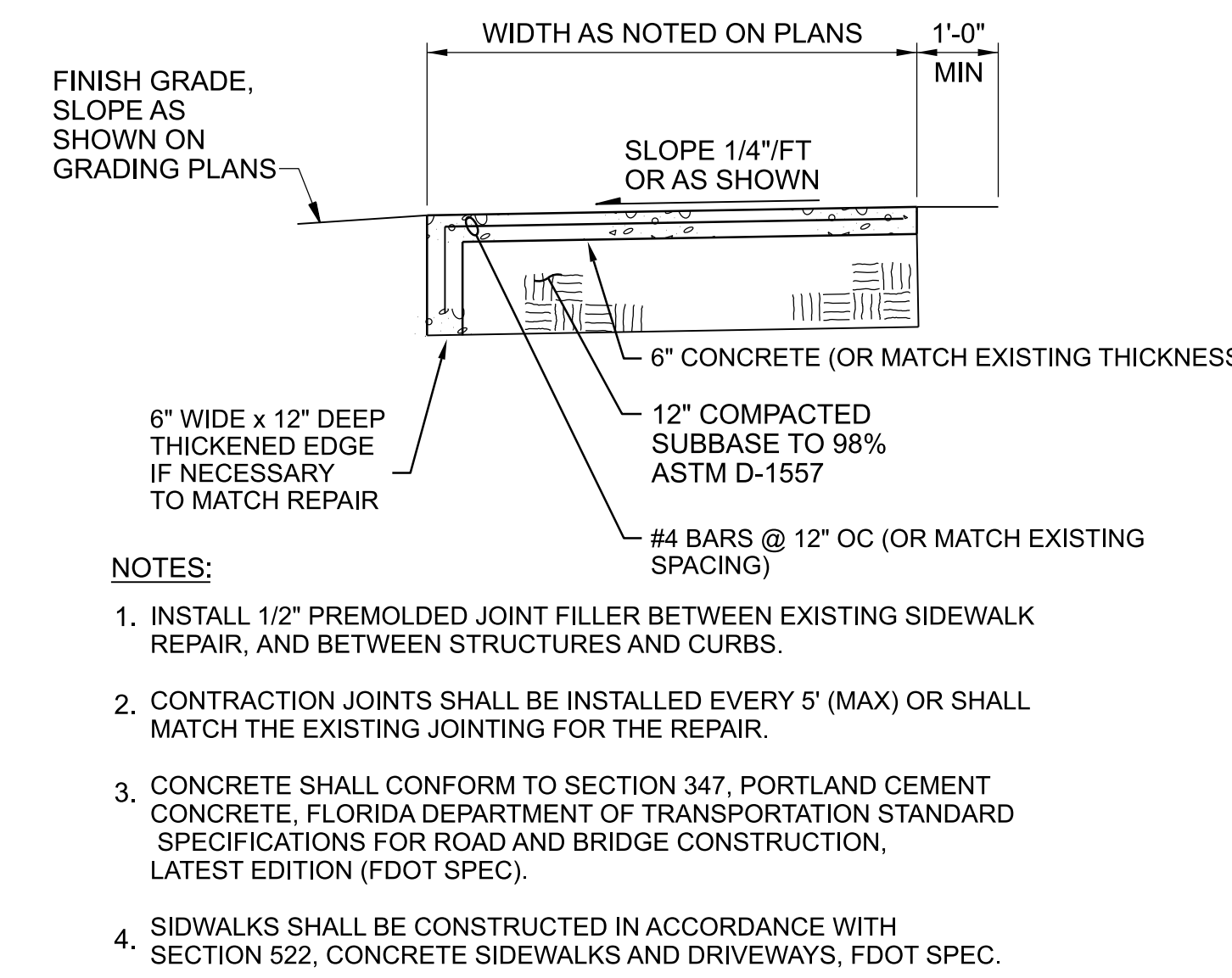


4 TREE PROTECTION FOR PALM TREE
NTS



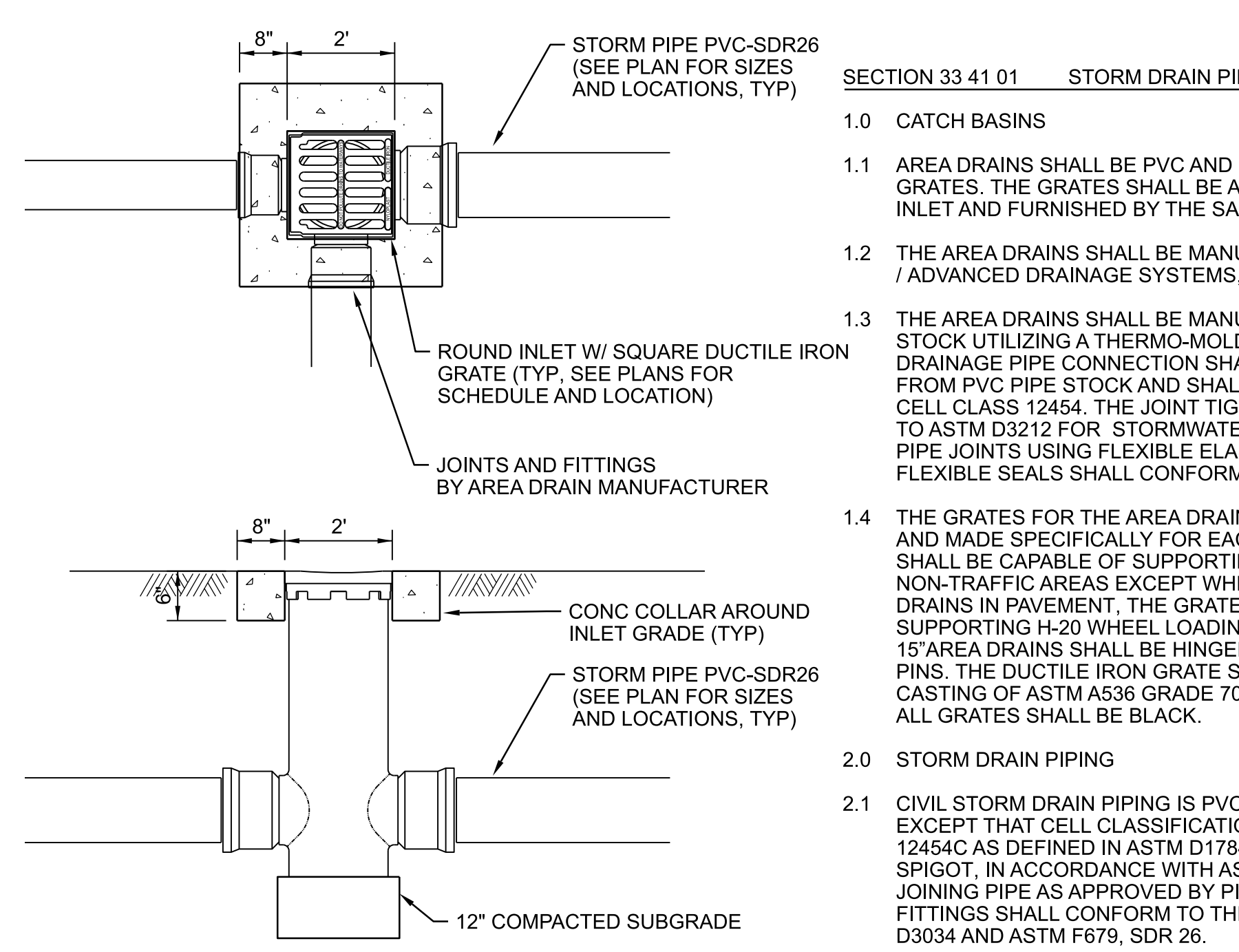
- NOTES:**
- BURY BOTTOM OF FILTER FABRIC 8" VERTICALLY BELOW FINISHED GRADE.
 - WOOD FENCE POSTS.
 - STITCHED LOOPS TO BE INSTALLED DOWNHILL SIDE OF SLOPE.
 - COMPACT ALL AREAS OF FILTER FABRIC TRENCH.
 - FOR DOUBLE ROW SILT FENCE PLACE MULCH BETWEEN ROWS. PROVIDE 4' SEPARATION BETWEEN ROWS WHERE POSSIBLE.

1 SILT FENCE
NTS



- NOTES:**
- INSTALL 1/2" PREMOLDED JOINT FILLER BETWEEN EXISTING SIDEWALK REPAIR, AND BETWEEN STRUCTURES AND CURBS.
 - CONTRACTION JOINTS SHALL BE INSTALLED EVERY 5' (MAX) OR SHALL MATCH THE EXISTING JOINTING FOR THE REPAIR.
 - CONCRETE SHALL CONFORM TO SECTION 347, PORTLAND CEMENT CONCRETE, FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION (FDOT SPEC).
 - SIDEWALKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 522, CONCRETE SIDEWALKS AND DRIVEWAYS, FDOT SPEC.

5 CONCRETE SIDEWALK
NTS

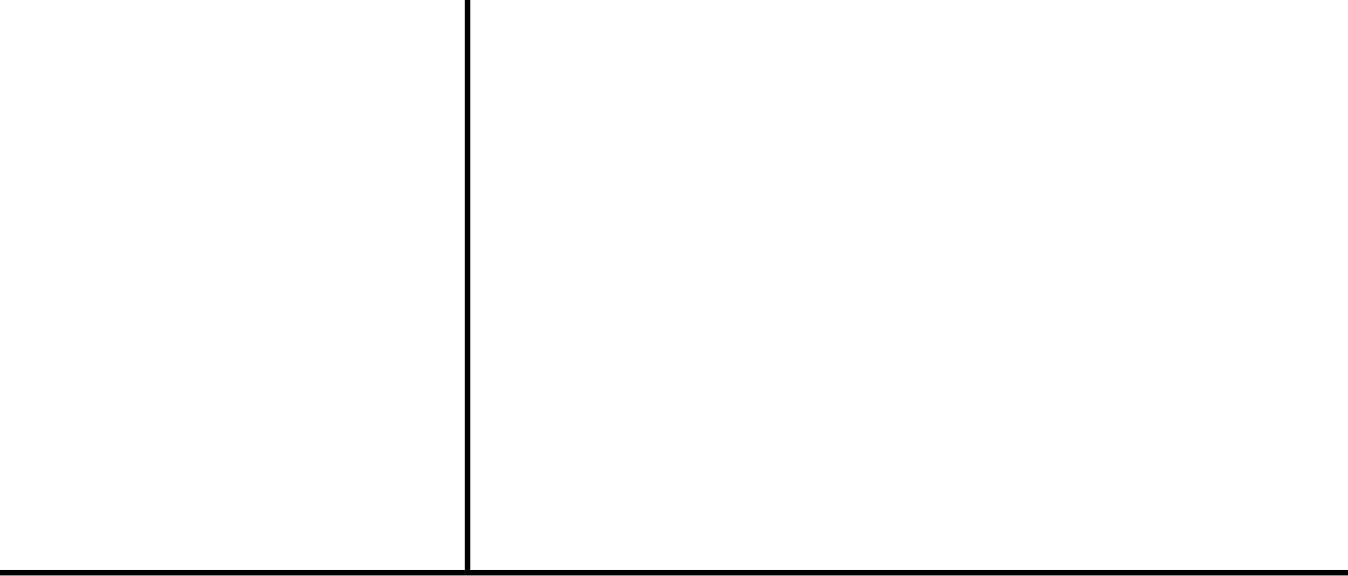


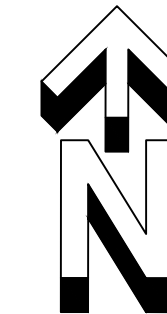
6 STORMWATER INLET
NTS

SECTION 33 41 01 STORM DRAIN PIPING AND CATCH BASINS

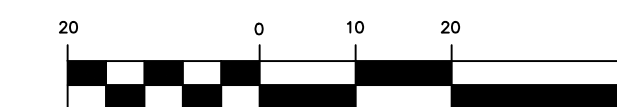
- CATCH BASINS
 - AREA DRAINS SHALL BE PVC AND HAVE DUCTILE IRON GRATES. THE GRATES SHALL BE AN INTEGRAL PART OF THE INLET AND FURNISHED BY THE SAME MANUFACTURER.
 - THE AREA DRAINS SHALL BE MANUFACTURED BY NYLOPLAST / ADVANCED DRAINAGE SYSTEMS, OR AN APPROVED EQUAL
 - THE AREA DRAINS SHALL BE MANUFACTURED FROM PVC PIPE STOCK UTILIZING A THERMO-MOLDING PROCESS. THE DRAINAGE PIPE CONNECTION SHALL BE MANUFACTURED FROM PVC PIPE STOCK AND SHALL CONFORM TO ASTM D1784 CELL CLASS 12454. THE JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR STORMWATER AND SEWER PLASTIC PIPE JOINTS USING FLEXIBLE ELASTOMERIC SEALS. THE FLEXIBLE SEALS SHALL CONFORM TO ASTM F477.
 - THE GRATES FOR THE AREA DRAINS SHALL BE DUCTILE IRON AND MADE SPECIFICALLY FOR EACH AREA DRAIN. GRATES SHALL BE CAPABLE OF SUPPORTING H-10 LOADING FOR NON-TRAFFIC AREAS EXCEPT WHERE NOTED. FOR AREA DRAINS IN PAVEMENT, THE GRATE SHALL BE CAPABLE OF SUPPORTING H-20 WHEEL LOADING. GRATES FOR 12" AND 15" AREA DRAINS SHALL BE HINGED TO THE FRAME USING PINS. THE DUCTILE IRON GRATE SHALL CONFORM TO THE CASTING OF ASTM A536 GRADE 70-50-05 FOR DUCTILE IRON. ALL GRATES SHALL BE BLACK.
- STORM DRAIN PIPING
 - CIVIL STORM DRAIN PIPING IS PVC-SDR 26 ASTM D3034 EXCEPT THAT CELL CLASSIFICATION SHALL BE 12454B OR 12454C AS DEFINED IN ASTM D1784. INTEGRAL BELL AND SPIGOT, IN ACCORDANCE WITH ASTM D3212. LUBRICANT FOR JOINING PIPE AS APPROVED BY PIPE MANUFACTURER. FITTINGS SHALL CONFORM TO THE REQUIREMENTS OF ASTM D3034 AND ASTM F679, SDR 26.

7 EXTERIOR CLEANOUT
NTS





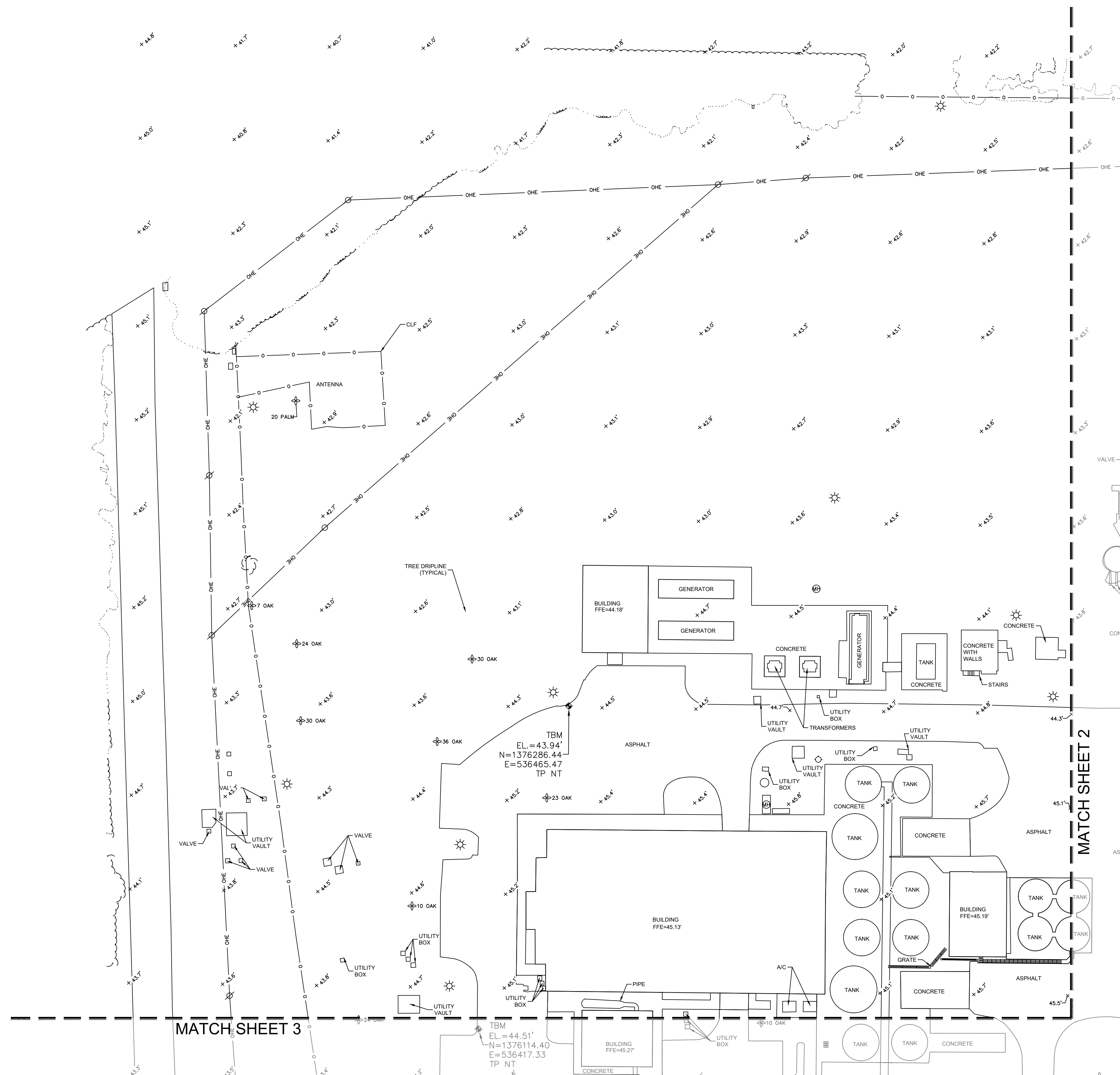
GRAPHIC SCALE



(IN FEET)
1 inch = 20 ft.

LEGEND

- NOT TO SCALE
- FND FOUND
 - FCR FOUND CAPPED IRON ROD (SIZE NOTED)
 - FCM FOUND CONCRETE MONUMENT (SIZE NOTED)
 - FIP FOUND IRON PIPE (SIZE NOTED)
 - FIR FOUND IRON ROD (SIZE NOTED)
 - FN&D FOUND NAIL & BRASS DISK
 - FPF FOUND PINCHED PIPE (SIZE NOTED)
 - FRRS FOUND RAILROAD SPIKE
 - SCR SET 1/2" CAPPED IRON ROD "LB 4513"
 - SN&D SET NAIL & BRASS DISK "LB 4513"
 - LB LICENSED BUSINESS
 - PLS PROFESSIONAL LAND SURVEYOR
 - (C) CALCULATED
 - (R) RECORDED
 - PL PLAT BOOK
 - PC PAGE
 - BPF BACKFLOW PREVENTER
 - BCV DOUBLE CHECK VALVE
 - FFE FINISH FLOOR ELEVATION
 - INV INVERT
 - ORB OFFICIAL RECORDS BOOK
 - R/W RIGHT OF WAY
 - TBM TEMPORARY BENCHMARK
 - TOB TOP OF BANK
 - TOS TOE OF SLOPE
 - A/C AIR CONDITIONER
 - BWF BARB WIRE FENCE
 - CLF CHAIN LINK FENCE
 - WPF WOOD PANEL FENCE
 - CMP CORRUGATED METAL PIPE
 - DIP DUCTILE IRON PIPE
 - ERCP ELLIPTICAL REINFORCED CONCRETE PIPE
 - HDPE HIGH DENSITY POLYETHYLENE PIPE
 - PVC POLYVINYL CHLORIDE PIPE
 - VCP VITRIFIED CLAY PIPE
 - RCP REINFORCED CONCRETE PIPE
 - MES MITERED END SECTION
 - FOC FIBER OPTIC CABLE
 - OHE OVERHEAD ELECTRIC
 - TRN TRANSFORMER
 - TP IR TRAVERSE POINT IRON ROD
 - TP SN TRAVERSE POINT SET NAIL
 - R RADIUS
 - L ARC LENGTH
 - Δ DELTA ANGLE
 - CB CHORD BEARING
 - CHORD LENGTH
 - TV- PAINT OR FLAG MARKING UG CABLE TELEVISION LINE
 - E- PAINT OR FLAG MARKING UG ELECTRIC
 - FC- PAINT OR FLAG MARKING UG FOC
 - G- PAINT OR FLAG MARKING UG GAS LINE
 - RW- PAINT OR FLAG MARKING UG RECLAIMED WATER
 - S- PAINT OR FLAG MARKING UG SANITARY SEWER
 - T- PAINT OR FLAG MARKING UG TELEPHONE LINE
 - VZ- PAINT OR FLAG MARKING UG VERIZON LINE
 - W- PAINT OR FLAG MARKING UG WATER LINE
 - BENCHMARK
 - BOLLARD/POST
 - BURIED CATV MARKER POST
 - CABLE TV BOX
 - CONCRETE LIGHT POLE
 - CONCRETE UTILITY POLE
 - CLEANOUT
 - DECORATIVE LIGHT
 - ELECTRIC BOX
 - ELECTRIC MANHOLE
 - ELECTRIC METER
 - FIBER OPTIC CABLE BOX
 - FIRE HYDRANT
 - FIRE DEPARTMENT CONNECTION
 - GAS MARKER POST
 - GAS METER/REGULATOR
 - GAS VALVE
 - GREASE-TRAP MANHOLE
 - GUY WIRE
 - IRRIGATION CONTROL VALVE
 - MAIL BOX
 - METAL UTILITY POLE
 - MONITOR WELL
 - RECLAIMED WATER METER BOX
 - RECLAIMED WATER VALVE
 - ROOF DRAIN
 - SANITARY MANHOLE
 - SANITARY VALVE
 - SIGN
 - SOIL BORING LOCATION
 - STORM OR DRAINAGE MANHOLE
 - STREET LIGHT ACCESS BOX
 - TELECOMMUNICATIONS MANHOLE
 - TELEPHONE BOX
 - TELEPHONE LINE MARKER POST
 - TRAFFIC SIGNAL ACCESS BOX
 - TRAFFIC SIGNAL POLE
 - VERIZON ACCESS BOX
 - WATER MANHOLE
 - WATER VALVE
 - WATER METER BOX
 - WELL
 - WOOD LIGHT POLE
 - WOOD UTILITY POLE



NOTES:

1. NO UNDERGROUND INSTALLATIONS OR IMPROVEMENTS HAVE BEEN LOCATED EXCEPT AS SHOWN.
2. NO INSTRUMENTS OF RECORD REFLECTING EASEMENTS, RIGHT OF WAY AND/OR OWNERSHIP WERE FOUND TO THIS SURVEYOR EXCEPT AS SHOWN.
3. THIS SURVEY DOES NOT REFLECT OR DETERMINE OWNERSHIP.
4. USE OF THIS SURVEY BY ANYONE OTHER THAN THOSE PREPARED FOR WILL BE THE RE-USERS SOLE RISK WITHOUT LIABILITY TO THE SURVEYOR.
5. THERE MAY BE ITEMS DRAWN OUT OF SCALE TO GRAPHICALLY SHOW THEIR LOCATION.
6. THE SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A CURRENT TITLE COMMITMENT AND IS SUBJECT TO EASEMENTS, RIGHTS-OF-WAY AND SIMILAR MATTERS OF TITLE.
7. NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.
8. THE HORIZONTAL DATUM IS TIED TO THE FLORIDA STATE PLANE COORDINATE SYSTEM (GRID), WEST ZONE NORTH AMERICAN DATUM 1983, ADJUSTMENT 2011.
9. ELEVATIONS SHOWN HEREON ARE IN FEET AND REFER TO THE NORTH AMERICAN VERTICAL DATUM OF 1988. (N.A.V.D.) REFERENCE BENCHMARK: FDOT RTK NETWORK.
10. THIS SURVEY IS FOR TOPOGRAPHIC PURPOSES AND IS NOT A BOUNDARY SURVEY.
11. BEARINGS AND DISTANCES ARE MEASURED UNLESS OTHERWISE NOTED.
12. BASIS OF BEARING IS GRID NORTH.

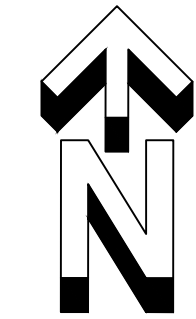
SUNCOAST LAND SURVEYING, Inc.
 111 FOREST LAKES BOULEVARD
 OLDSMAR, FLA. 34677
 LB 4513 BOUNDARY - TOPOGRAPHIC - CONSTRUCTION STAKEOUT
 (813) 854-1342 SUNCOASTLANDSURVEYING.COM

SECTION 23 TOWNSHIP 27 SOUTH RANGE 19 EAST
 HILLSBOROUGH COUNTY FLORIDA

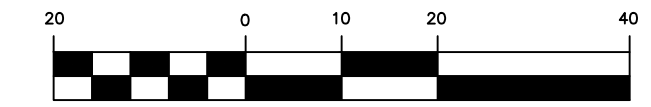
SURVEYOR'S CERTIFICATE
 I hereby certify that the SURVEY depicted herein was prepared under my RESPONSIBLE CHARGE on the date(s) shown, and meets the STANDARDS OF PRACTICE set forth by the FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS in Chapter 54-17, FLORIDA ADMINISTRATIVE CODE pursuant to Section 472.027, FLORIDA STATUTES.
 NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.
 5/20/22 DATE OF FIELD SURVEY
 KYLE McCLUNG, LS 7177

SHEET 1 OF 4
 PROJECT No.: 22040

TOPOGRAPHIC SURVEY
MORRIS BRIDGE
CERTIFIED TO: JACOBS



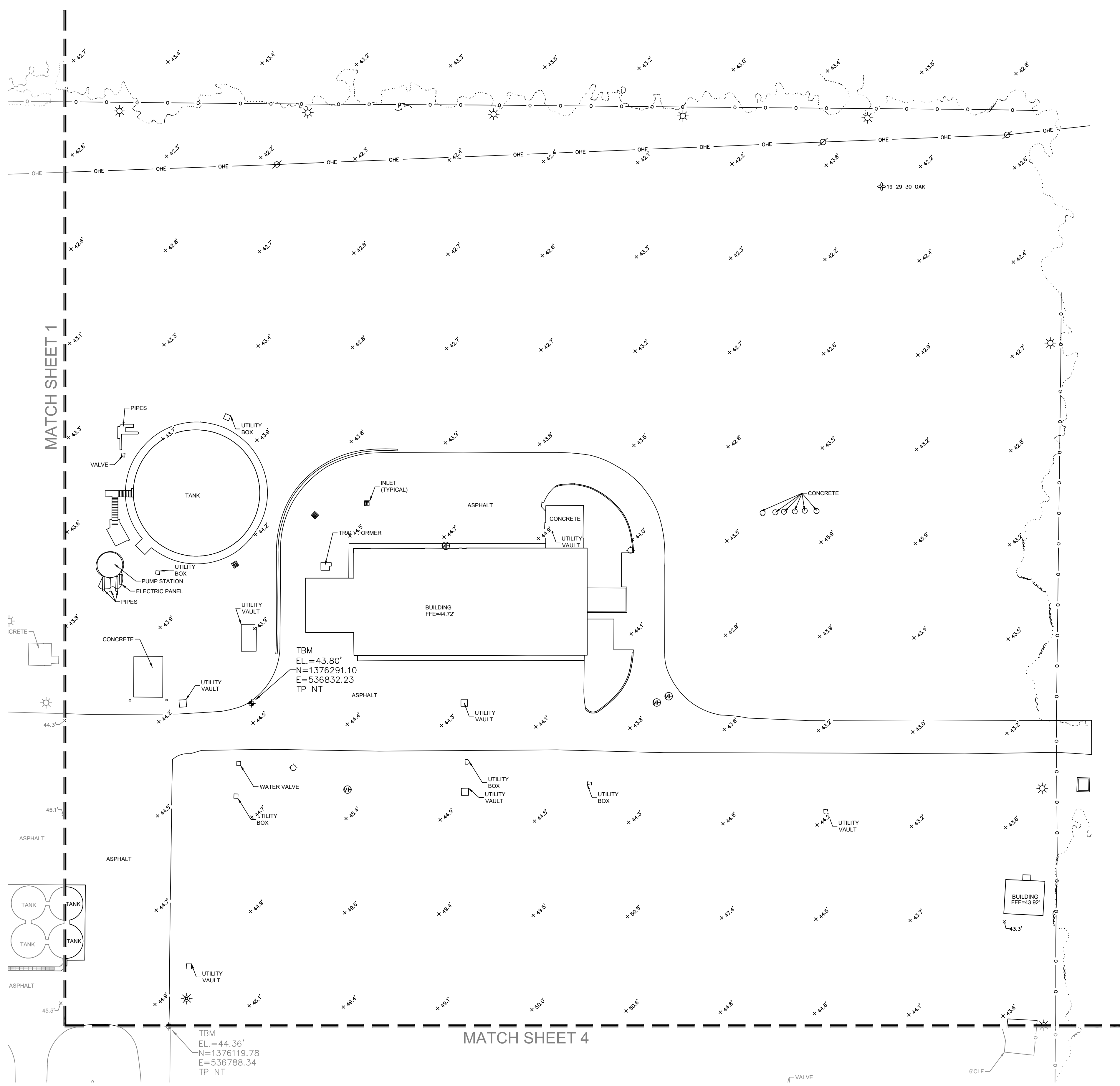
GRAPHIC SCALE



(IN FEET)
1 inch = 20 ft.

LEGEND

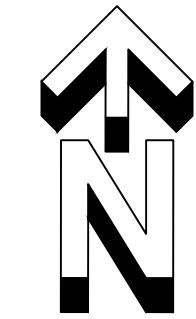
- NOT TO SCALE
- FND FOUND
 - FCR FOUND CAPPED IRON ROD (SIZE NOTED)
 - FCM FOUND CONCRETE MONUMENT (SIZE NOTED)
 - FIP FOUND IRON PIPE (SIZE NOTED)
 - FIR FOUND IRON ROD (SIZE NOTED)
 - FNAD FOUND NAIL & BRASS DISK
 - FPF FOUND PINCHED PIPE (SIZE NOTED)
 - FRRS FOUND RAILROAD SPIKE
 - SCR SET 1/2" CAPPED IRON ROD "LB 4513"
 - SN&D SET NAIL & BRASS DISK "LB 4513"
 - LB LICENSED BUSINESS
 - PLS PROFESSIONAL LAND SURVEYOR
 - (C) CALCULATED
 - (R) RECORDED
 - PLS PLAT BOOK
 - PC PAGE
 - BFP BACKFLOW PREVENTER
 - DCV DOUBLE CHECK VALVE
 - FFE FINISH FLOOR ELEVATION
 - INV INVERT
 - ORB OFFICIAL RECORDS BOOK
 - R/W RIGHT OF WAY
 - TBM TEMPORARY BENCHMARK
 - TOP TOP OF BANK
 - TOS TOE OF SLOPE
 - A/C AIR CONDITIONER
 - BWF BARB WIRE FENCE
 - CLF CHAIN LINK FENCE
 - WDF WOOD PANEL FENCE
 - CMP CORRUGATED METAL PIPE
 - DIP DUCTILE IRON PIPE
 - ERCP ELLIPTICAL REINFORCED CONCRETE PIPE
 - HDPE HIGH DENSITY POLYETHYLENE PIPE
 - PVC POLYVINYL CHLORIDE PIPE
 - VCP VITRIFIED CLAY PIPE
 - RCP REINFORCED CONCRETE PIPE
 - MES MITERED END SECTION
 - FOC FIBER OPTIC CABLE
 - OHE OVERHEAD ELECTRIC
 - TRAN TRANSFORMER
 - TP IR TRAVERSE POINT IRON ROD
 - TP SN TRAVERSE POINT SET NAIL
 - R RADIUS
 - L ARC LENGTH
 - Δ DELTA ANGLE
 - CB CHORD BEARING
 - CL CHORD LENGTH
 - TV- PAINT OR FLAG MARKING UG CABLE TELEVISION LINE
 - E- PAINT OR FLAG MARKING UG ELECTRIC
 - G- PAINT OR FLAG MARKING UG GAS LINE
 - RW- PAINT OR FLAG MARKING UG RECLAIMED WATER
 - S- PAINT OR FLAG MARKING UG SANITARY SEWER
 - T- PAINT OR FLAG MARKING UG TELEPHONE LINE
 - VZ- PAINT OR FLAG MARKING UG VERIZON LINE
 - W- PAINT OR FLAG MARKING UG WATER LINE
 - BENCHMARK
 - BOLLARD/POST
 - BURIED CATV MARKER POST
 - CABLE TV BOX
 - CONCRETE LIGHT POLE
 - CONCRETE UTILITY POLE
 - CLEANOUT
 - DECORATIVE LIGHT
 - ELECTRIC BOX
 - ELECTRIC MANHOLE
 - ELECTRIC METER
 - FIBER OPTIC CABLE BOX
 - FIRE HYDRANT
 - FIRE DEPARTMENT CONNECTION
 - GAS MARKER POST
 - GAS METER/REGULATOR
 - GAS VALVE
 - GREASE-TRAP MANHOLE
 - GUY WIRE
 - IRRIGATION CONTROL VALVE
 - MAIL BOX
 - METAL UTILITY POLE
 - MONITOR WELL
 - RECLAIMED WATER METER BOX
 - RECLAIMED WATER VALVE
 - ROOF DRAIN
 - SANITARY MANHOLE
 - SANITARY VALVE
 - SIGN
 - SOIL BORING LOCATION
 - STORM OR DRAINAGE MANHOLE
 - STREET LIGHT ACCESS BOX
 - TELECOMMUNICATIONS MANHOLE
 - TELEPHONE BOX
 - TELEPHONE LINE MARKER POST
 - TRAFFIC SIGNAL ACCESS BOX
 - TRAFFIC SIGNAL POLE
 - VERIZON ACCESS BOX
 - WATER MANHOLE
 - WATER VALVE
 - WATER METER BOX
 - WELL
 - WOOD LIGHT POLE
 - WOOD UTILITY POLE



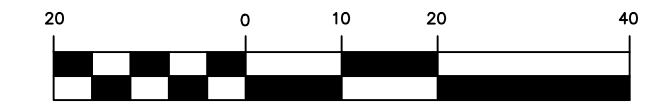
NOTES:

1. NO UNDERGROUND INSTALLATIONS OR IMPROVEMENTS HAVE BEEN LOCATED EXCEPT AS SHOWN.
2. NO INSTRUMENTS OF RECORD REFLECTING EASEMENTS, RIGHT OF WAY AND/OR OWNERSHIP WERE FURNISHED TO THIS SURVEYOR EXCEPT AS SHOWN.
3. THIS SURVEY DOES NOT REFLECT OR DETERMINE OWNERSHIP.
4. USE OF THIS SURVEY BY ANYONE OTHER THAN THOSE PREPARED FOR WILL BE THE RE-USERS SOLE RISK WITHOUT LIABILITY TO THE SURVEYOR.
5. THERE MAY BE ITEMS DRAWN OUT OF SCALE TO GRAPHICALLY SHOW THEIR LOCATION.
6. THE SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A CURRENT TITLE COMMITMENT AND IS SUBJECT TO EASEMENTS, RIGHTS-OF-WAY AND SIMILAR MATTERS OF TITLE.
7. NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.
8. THE HORIZONTAL DATUM IS TIED TO THE FLORIDA STATE PLANE COORDINATE SYSTEM (GRID), WEST ZONE NORTH AMERICAN DATUM 1983, ADJUSTMENT 2011.
9. ELEVATIONS SHOWN HEREON ARE IN FEET AND REFER TO THE NORTH AMERICAN VERTICAL DATUM OF 1988. (N.A.V.D.) REFERENCE BENCHMARK: FDOT RTK NETWORK.
10. THIS SURVEY IS FOR TOPOGRAPHIC PURPOSES AND IS NOT A BOUNDARY SURVEY.
11. BEARINGS AND DISTANCES ARE MEASURED UNLESS OTHERWISE NOTED.
12. BASIS OF BEARING IS GRID NORTH.

MATCH SHEET 1



GRAPHIC SCALE

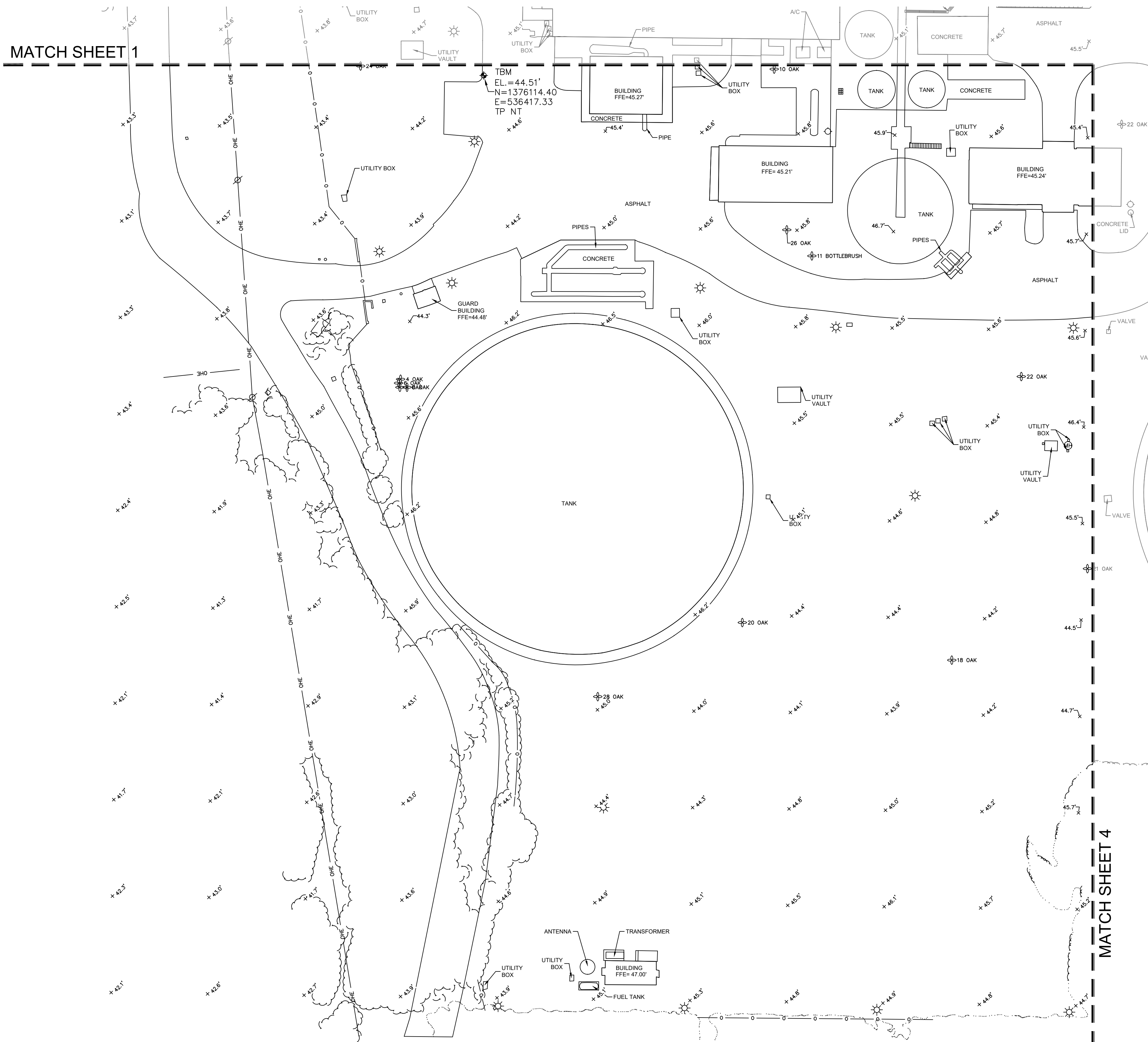


(IN FEET)
1 inch = 20 ft.

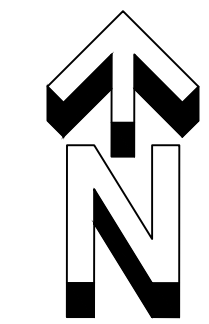
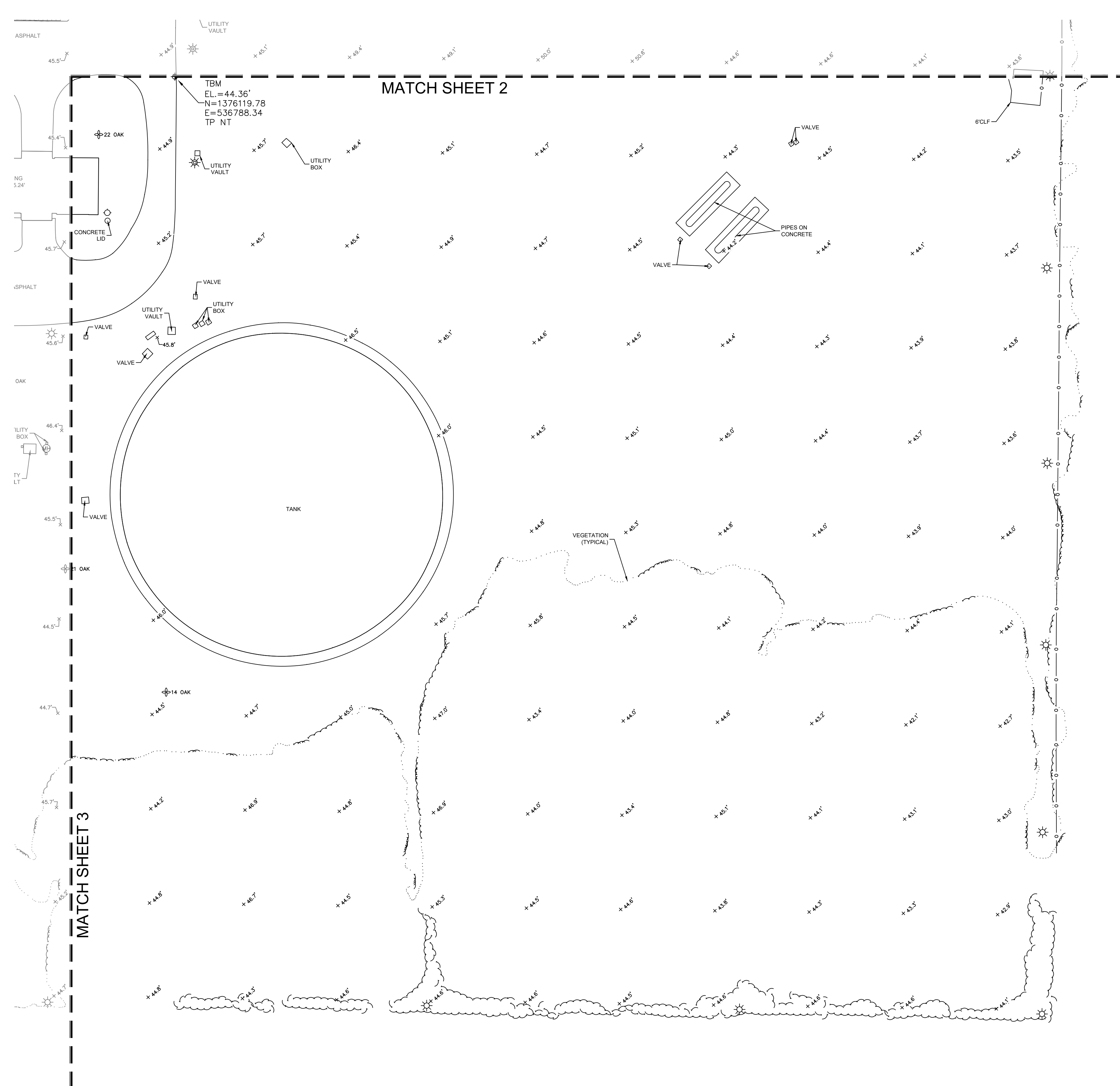
LEGEND

- NOT TO SCALE
- FND FOUND
 - FCR FOUND CAPPED IRON ROD (SIZE NOTED)
 - FCM FOUND CONCRETE MONUMENT (SIZE NOTED)
 - FIP FOUND IRON PIPE (SIZE NOTED)
 - FR FOUND IRON ROD (SIZE NOTED)
 - FN&D FOUND NAIL & BRASS DISK
 - FPFP FOUND PINCHED PIPE (SIZE NOTED)
 - FRRS FOUND RAILROAD SPIKE
 - SCR SET 1/2" CAPPED IRON ROD "LB 4513"
 - SN&D SET NAIL & BRASS DISK "LB 4513"
 - LB LICENSED BUSINESS
 - PLS PROFESSIONAL LAND SURVEYOR
 - (C) CALCULATED
 - (R) RECORDED
 - PLS PLAT BOOK
 - PC PAGE
 - BFP BACKFLOW PREVENTER
 - BCV DOUBLE CHECK VALVE
 - FFE FINISH FLOOR ELEVATION
 - INV INVERT
 - ORB OFFICIAL RECORDS BOOK
 - R/W RIGHT OF WAY
 - TBM TEMPORARY BENCHMARK
 - TOB TOP OF BANK
 - TOS TOE OF SLOPE
 - A/C AIR CONDITIONER
 - BWF BARB WIRE FENCE
 - CLF CHAIN LINK FENCE
 - WPF WOOD PANEL FENCE
 - CMP CORRUGATED METAL PIPE
 - DIP DUCTILE IRON PIPE
 - ERCP ELLIPTICAL REINFORCED CONCRETE PIPE
 - HDPE HIGH DENSITY POLYETHYLENE PIPE
 - PVC POLYVINYL CHLORIDE PIPE
 - VCP VITRIFIED CLAY PIPE
 - RCP REINFORCED CONCRETE PIPE
 - MES MITERED END SECTION
 - FOC FIBER OPTIC CABLE
 - OHE OVERHEAD ELECTRIC
 - TRAN TRANSFORMER
 - TP IR TRAVERSE POINT IRON ROD
 - TP SN TRAVERSE POINT SET NAIL
 - R RADIUS
 - L ARC LENGTH
 - Δ DELTA ANGLE
 - CB CHORD BEARING
 - L CHORD LENGTH
 - TV— PAINT OR FLAG MARKING UG CABLE TELEVISION LINE
 - E— PAINT OR FLAG MARKING UG ELECTRIC
 - FC— PAINT OR FLAG MARKING UG FOC
 - G— PAINT OR FLAG MARKING UG GAS LINE
 - RW— PAINT OR FLAG MARKING UG RECLAIMED WATER
 - S— PAINT OR FLAG MARKING UG SANITARY SEWER
 - T— PAINT OR FLAG MARKING UG TELEPHONE LINE
 - VZ— PAINT OR FLAG MARKING UG VERIZON LINE
 - W— PAINT OR FLAG MARKING UG WATER LINE
 - BENCHMARK
 - BOLLARD/POST
 - ⊕ BURIED CATV MARKER POST
 - ⊕ CABLE TV BOX
 - ⊕ CONCRETE LIGHT POLE
 - ⊕ CONCRETE UTILITY POLE
 - CLEANOUT
 - ⊕ DECORATIVE LIGHT
 - ⊕ ELECTRIC BOX
 - ⊕ ELECTRIC MANHOLE
 - ⊕ ELECTRIC METER
 - ⊕ FIBER OPTIC CABLE BOX
 - ⊕ FIRE HYDRANT
 - ⊕ FIRE DEPARTMENT CONNECTION
 - ⊕ GAS MARKER POST
 - ⊕ GAS METER/REGULATOR
 - ⊕ GAS VALVE
 - ⊕ GREASE-TRAP MANHOLE
 - ⊕ GUY WIRE
 - ⊕ IRRIGATION CONTROL VALVE
 - ⊕ MAIL BOX
 - ⊕ METAL UTILITY POLE
 - ⊕ MONITOR WELL
 - ⊕ RECLAIMED WATER METER BOX
 - ⊕ RECLAIMED WATER VALVE
 - ⊕ ROOF DRAIN
 - ⊕ SANITARY MANHOLE
 - ⊕ SANITARY VALVE
 - ⊕ SIGN
 - ⊕ SOIL BORING LOCATION
 - ⊕ STORM OR DRAINAGE MANHOLE
 - ⊕ STREET LIGHT ACCESS BOX
 - ⊕ TELECOMMUNICATIONS MANHOLE
 - ⊕ TELEPHONE BOX
 - ⊕ TELEPHONE LINE MARKER POST
 - ⊕ TRAFFIC SIGNAL ACCESS BOX
 - ⊕ TRAFFIC SIGNAL POLE
 - ⊕ VERIZON ACCESS BOX
 - ⊕ WATER MANHOLE
 - ⊕ WATER VALVE
 - ⊕ WATER METER BOX
 - ⊕ WELL
 - ⊕ WOOD LIGHT POLE
 - ⊕ WOOD UTILITY POLE

- NOTES:
1. NO UNDERGROUND INSTALLATIONS OR IMPROVEMENTS HAVE BEEN LOCATED EXCEPT AS SHOWN.
 2. NO INSTRUMENTS OF RECORD REFLECTING EASEMENTS, RIGHT OF WAY AND/OR OWNERSHIP WERE FURNISHED TO THIS SURVEYOR EXCEPT AS SHOWN.
 3. THIS SURVEY DOES NOT REFLECT OR DETERMINE OWNERSHIP.
 4. USE OF THIS SURVEY BY ANYONE OTHER THAN THOSE PREPARED FOR WILL BE THE RE-USERS SOLE RISK WITHOUT LIABILITY TO THE SURVEYOR.
 5. THERE MAY BE ITEMS DRAWN OUT OF SCALE TO GRAPHICALLY SHOW THEIR LOCATION.
 6. THE SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A CURRENT TITLE COMMITMENT AND IS SUBJECT TO EASEMENTS, RIGHTS-OF-WAY AND SIMILAR MATTERS OF TITLE.
 7. NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.
 8. THE HORIZONTAL DATUM IS TIED TO THE FLORIDA STATE PLANE COORDINATE SYSTEM (GRID), WEST ZONE NORTH AMERICAN DATUM 1983, ADJUSTMENT 2011.
 9. ELEVATIONS SHOWN HEREON ARE IN FEET AND REFER TO THE NORTH AMERICAN VERTICAL DATUM OF 1988. (N.A.V.D.) REFERENCE BENCHMARK: FDOT RTK NETWORK.
 10. THIS SURVEY IS FOR TOPOGRAPHIC PURPOSES AND IS NOT A BOUNDARY SURVEY.
 11. BEARINGS AND DISTANCES ARE MEASURED UNLESS OTHERWISE NOTED.
 12. BASIS OF BEARING IS GRID NORTH.



MATCH SHEET 4



GRAPHIC SCALE



(IN FEET)
1 inch = 20 ft.

LEGEND

- NOT TO SCALE
- FND FOUND
 - FOR FOUND CAPPED IRON ROD (SIZE NOTED)
 - FCM FOUND CONCRETE MONUMENT (SIZE NOTED)
 - FIP FOUND IRON PIPE (SIZE NOTED)
 - FIR FOUND IRON ROD (SIZE NOTED)
 - FNAD FOUND NAIL & BRASS DISK
 - FPFP FOUND PINCHED PIPE (SIZE NOTED)
 - FRRS FOUND RAILROAD SPIKE
 - SCRIR SET 1/2" CAPPED IRON ROD "LB 4513"
 - SNBDS SET NAIL & BRASS DISK "LB 4513"
 - LB LICENSED BUSINESS
 - PLS PROFESSIONAL LAND SURVEYOR
 - (C) CALCULATED
 - (R) RECORDED
 - PB PLAT BOOK
 - PC PAGE
 - BFP BACKFLOW PREVENTER
 - DCV DOUBLE CHECK VALVE
 - FFE FINISH FLOOR ELEVATION
 - INV INVERT
 - ORB OFFICIAL RECORDS BOOK
 - R/W RIGHT OF WAY
 - TBM TEMPORARY BENCHMARK
 - TOB TOP OF BANK
 - TOS TOE OF SLOPE
 - A/C AIR CONDITIONER
 - BWF BARB WIRE FENCE
 - CLF CHAIN LINK FENCE
 - WPF WOOD PANEL FENCE
 - OMP CORRUGATED METAL PIPE
 - DIP DUCTILE IRON PIPE
 - ERCP ELLIPTICAL REINFORCED CONCRETE PIPE
 - HDPE HIGH DENSITY POLYETHYLENE PIPE
 - PVC POLYVINYL CHLORIDE PIPE
 - VCP VITRIFIED CLAY PIPE
 - RCP REINFORCED CONCRETE PIPE
 - MES MITERED END SECTION
 - FOC FIBER OPTIC CABLE
 - OHE OVERHEAD ELECTRIC
 - TRAN TRANSFORMER
 - TP IR TRAVERSE POINT IRON ROD
 - TP SN TRAVERSE POINT SET NAIL
 - R RADIUS
 - L ARC LENGTH
 - Δ DELTA ANGLE
 - CB CHORD BEARING
 - CHORD LENGTH
 - TV- PAINT OR FLAG MARKING UG CABLE TELEVISION LINE
 - E- PAINT OR FLAG MARKING UG ELECTRIC
 - G- PAINT OR FLAG MARKING UG GAS LINE
 - RW- PAINT OR FLAG MARKING UG RECLAIMED WATER
 - S- PAINT OR FLAG MARKING UG SANITARY SEWER
 - T- PAINT OR FLAG MARKING UG TELEPHONE LINE
 - VZ- PAINT OR FLAG MARKING UG VERIZON LINE
 - W- PAINT OR FLAG MARKING UG WATER LINE
 - BENCHMARK
 - BOLLARD/POST
 - BURIED CATV MARKER POST
 - CABLE TV BOX
 - CONCRETE LIGHT POLE
 - CONCRETE UTILITY POLE
 - CLEANOUT
 - DECORATIVE LIGHT
 - ELECTRIC BOX
 - ELECTRIC MANHOLE
 - ELECTRIC METER
 - FIBER OPTIC CABLE BOX
 - FIRE HYDRANT
 - FIRE DEPARTMENT CONNECTION
 - GAS MARKER POST
 - GAS METER/REGULATOR
 - GAS VALVE
 - GREASE-TRAP MANHOLE
 - GUY WIRE
 - IRRIGATION CONTROL VALVE
 - MAIL BOX
 - METAL UTILITY POLE
 - MONITOR WELL
 - RECLAIMED WATER METER BOX
 - RECLAIMED WATER VALVE
 - ROOF DRAIN
 - SANITARY MANHOLE
 - SANITARY VALVE
 - SIGN
 - SOIL BORING LOCATION
 - STORM OR DRAINAGE MANHOLE
 - STREET LIGHT ACCESS BOX
 - TELECOMMUNICATIONS MANHOLE
 - TELEPHONE BOX
 - TELEPHONE LINE MARKER POST
 - TRAFFIC SIGNAL ACCESS BOX
 - TRAFFIC SIGNAL POLE
 - VERIZON ACCESS BOX
 - WATER MANHOLE
 - WATER VALVE
 - WATER METER BOX
 - WELL
 - WOOD LIGHT POLE
 - WOOD UTILITY POLE

- NOTES:
1. NO UNDERGROUND INSTALLATIONS OR IMPROVEMENTS HAVE BEEN LOCATED EXCEPT AS SHOWN.
 2. NO INSTRUMENTS OF RECORD REFLECTING EASEMENTS, RIGHT OF WAY AND/OR OWNERSHIP WERE FURNISHED TO THIS SURVEYOR EXCEPT AS SHOWN.
 3. THIS SURVEY DOES NOT REFLECT OR DETERMINE OWNERSHIP.
 4. USE OF THIS SURVEY BY ANYONE OTHER THAN THOSE PREPARED FOR WILL BE THE RE-USERS SOLE RISK WITHOUT LIABILITY TO THE SURVEYOR.
 5. THERE MAY BE ITEMS DRAWN OUT OF SCALE TO GRAPHICALLY SHOW THEIR LOCATION.
 6. THE SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A CURRENT TITLE COMMITMENT AND IS SUBJECT TO EASEMENTS, RIGHTS-OF-WAY AND SIMILAR MATTERS OF TITLE.
 7. NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.
 8. THE HORIZONTAL DATUM IS TIED TO THE FLORIDA STATE PLANE COORDINATE SYSTEM (GRD), WEST ZONE NORTH AMERICAN DATUM 1983, ADJUSTMENT 2011.
 9. ELEVATIONS SHOWN HEREON ARE IN FEET AND REFER TO THE NORTH AMERICAN VERTICAL DATUM OF 1988. (N.A.V.D.) REFERENCE BENCHMARK: FDOT RTK NETWORK.
 10. THIS SURVEY IS FOR TOPOGRAPHIC PURPOSES AND IS NOT A BOUNDARY SURVEY.
 11. BEARINGS AND DISTANCES ARE MEASURED UNLESS OTHERWISE NOTED.
 12. BASIS OF BEARING IS GRID NORTH.

SUNCOAST LAND SURVEYING, Inc.
111 FOREST LAKES BOULEVARD
OLDSMAR, FLA. 34677
LB 4513 BOUNDARY - TOPOGRAPHIC - CONSTRUCTION STAKEOUT
(813) 854-1342 SUNCOASTLANDSURVEYING.COM

SECTION 23 TOWNSHIP 27 SOUTH RANGE 19 EAST
HILLSBOROUGH COUNTY FLORIDA

SHEET 4 OF 4
PROJECT No.: 22040

TOPOGRAPHIC SURVEY
MORRIS BRIDGE
CERTIFIED TO: JACOBS

1 GENERAL NOTES

- A. GENERAL BUILDING AND DESIGN CODES:
1. 2020 FLORIDA BUILDING CODE, EXISTING BUILDING, 7TH EDITION.
2. ASCE 7-16 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES...
B. DESIGN LOADS:
1. DEAD LOADS
2. LIVE LOADS
C. SPECIFICATIONS ARE PART OF THE CONSTRUCTION DOCUMENTS...
D. VERIFY EXISTING CONDITIONS AND DIMENSIONS PRIOR TO BEGINNING WORK...
E. SHORE ALL EXISTING CONSTRUCTION WHEREVER EXISTING SUPPORTS ARE REMOVED...
F. VERIFY THE LOCATION OF CHASES, INSERTS, OPENINGS, SLEEVES, FINISHES, DEPRESSIONS, PADS, AND WALL OPENINGS.

POST-INSTALLED ANCHORS

- A. INSTALL ANCHORS IN ACCORDANCE WITH CURRENT ICC-ES REPORT FOR THE ANCHOR AND PER THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS.
B. INSTALL ANCHORS PERPENDICULAR TO THE FACE OF CONCRETE...
C. CREATE A TEMPLATE AT EACH ANCHOR CONNECTION LOCATION PRIOR TO FABRICATING HOLES...
D. DRILL HOLES TO DEPTH AND DIAMETER RECOMMENDED BY THE MANUFACTURER...
E. DRILL HOLES IN A CONTINUOUS OPERATION...
F. FILL ABANDONED HOLES WITH EPOXY GROUT...
G. TIGHTEN NUTS AGAINST SMOOTH WASHERS TO THE MINIMUM TORQUE...
H. PROVIDE STANDARD HOLES IN CONNECTION PLATES...
I. ALL ANCHORS SHALL BE APPROVED FOR USE IN SEISMIC CONDITIONS.

2 STRUCTURAL STEEL

- A. PROVIDE STRUCTURAL STEEL OF THE FOLLOWING ASTM DESIGNATIONS UNLESS OTHERWISE NOTED:
1. M- AND S-SHAPES, CHANNELS AND ANGLES - ASTM A36
2. MISCELLANEOUS STEEL PLATES - ASTM A36
3. CONNECTION MATERIALS:
a. BEAM COLUMN STIFFENER PLATES AND DOUBLER PLATES TO MATCH THE GRADE STEEL OF STRUCTURAL ELEMENT
b. ALL CONNECTION MATERIALS, EXCEPT AS OTHERWISE NOTED HEREIN...
B. WELD MINIMUM SIZE AND STRENGTH
1. PROVIDE MINIMUM SIZE OF FILLET WELDS AS SPECIFIED IN TABLE J2.4 OF THE AISC MANUAL...
C. PROVIDE BOLTS, NUTS, AND WASHERS THAT ARE HOT DIP GALVANIZED...
D. STEEL FABRICATION
1. FABRICATE AND ASSEMBLE STRUCTURAL MEMBERS/ASSEMBLIES IN SHOP TO GREATEST EXTENT POSSIBLE...
E. CONFORM TO THE AISC CODE OF STANDARD PRACTICE FOR ERECTION TOLERANCES...
F. CLEAN STEEL OF RUST, LOOSE MILL SCALE, AND OTHER FOREIGN MATERIALS...
G. DO NOT CUT STRUCTURAL STEEL MEMBERS FOR THE WORK OF OTHER TRADES...
H. STEEL MEMBERS AND THEIR CONNECTIONS SHALL BE HOT-DIP GALVANIZED...
I. EXAMINE THE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR OTHER ITEMS THAT REQUIRE HOT-DIP GALVANIZATION...
J. PROVIDE NON-SHRINK, NON-METALLIC GROUT FOR BASE PLATES...
K. FURNISH STEEL SHOP DRAWINGS FOR ARCHITECT'S AND STRUCTURAL ENGINEER'S REVIEW...
L. MILL STEEL COLUMN ENDS TO FIT FLUSH WITH BASE PLATE, CAP PLATE, AND END PLATES...
M. HEADED STUDS (SHEAR CONNECTOR AND ANCHOR) AND DEFORMED ANCHORS...
N. PRIOR TO DECK PLACEMENT, VERIFY THAT STEEL BEAMS BEARING ON MASONRY HAVE 6 INCH MINIMUM BEARING...
O. UNLESS NOTED OTHERWISE, ANCHOR RODS SHALL CONFORM TO ASTM F1554 GRADE 55...

3 METAL DECK

- A. DESIGN, FABRICATION, AND ERECTION OF METAL DECK SHALL CONFORM TO THE STEEL DECK INSTITUTE'S "CODE OF RECOMMENDED STANDARD PRACTICE AND BASIC DESIGN SPECIFICATIONS."
B. REFER TO SDI STANDARDS FOR DECK FASTENING DETAIL REQUIREMENTS.
C. DECKS SHALL BE PLACED IN A TWO-SPAN MINIMUM CONDITION UNLESS APPROVED BY ENGINEER OF RECORD...
D. PROVIDE CLOSURES AT ENDS OF DECK OR WHERE CHANGES IN DECK DIRECTION OCCUR...
E. ROOF DECK
1. STEEL ROOF DECK SHALL BE 1 1/2" DEEP, 20GA, TYPE B (VULCRAFT OR ENGINEER APPROVED EQUAL), GALVANIZED (G-90) STEEL DECK...
2. ALL DECK SHALL BE 3/16" UNLESS NOTED OTHERWISE.
3. ATTACHMENT OF DECK TO STRUCTURE:
a. AT SUPPORTS:
1. STEEL DECK SHALL BE FASTENED TO SUPPORT MEMBERS AT 3/16" WITH #10 SELF-DRILLING SCREWS...
b. AT SIDE LAPS:
1. SIDE LAPS OF ADJACENT UNITS SHALL BE FASTENED BY #10 SELF-DRILLING SCREWS...
4. UNLESS NOTED OTHERWISE, CONTRACTOR SHALL PROVIDE FLAT, RIDGE, OR VALLEY PLATES AT ALL LOCATIONS...
F. DESIGN ALL PRECAST CONCRETE UNITS AND THEIR CONNECTIONS TO WITHSTAND ALL IMPOSED LOADS SHOWN ON THE DRAWINGS...
G. FRAMING SYSTEM AND CONNECTION DESIGN SHALL TAKE CONSIDERATION TO MAINTAIN CLEARANCES TO OPENINGS AND OTHER APPURTENANCES...
H. DESIGN STRUCTURAL CONCRETE ELEMENTS TO MEET THE WIND AND SEISMIC DRIFT REQUIREMENTS SPECIFIED IN THE DESIGN CRITERIA.
I. ENSURE SELECTED MATERIALS AND MEMBER THICKNESSES PROVIDE FOR THE MINIMUM REQUIRED FIRE-RESISTANCE RATING AS SPECIFIED IN THE ARCHITECTURAL DRAWINGS.

STRUCTURAL PRECAST CONCRETE

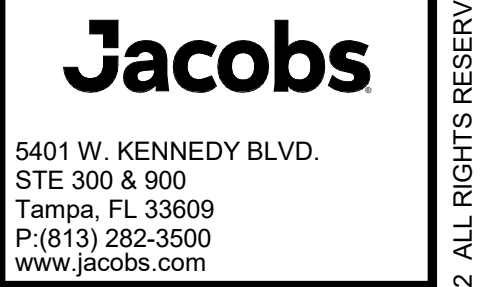
- A. TYPICAL DETAILS FOR PRECAST ELEMENTS SHOW SCHEMATIC INTENT OF LOAD PATHS, CONNECTIONS, INTERFACES WITH ARCHITECTURAL AND MEP FEATURES, AND OPENINGS...
B. DESIGN ALL PRECAST CONCRETE UNITS AND THEIR CONNECTIONS TO WITHSTAND ALL IMPOSED LOADS SHOWN ON THE DRAWINGS...
C. FRAMING SYSTEM AND CONNECTION DESIGN SHALL TAKE CONSIDERATION TO MAINTAIN CLEARANCES TO OPENINGS AND OTHER APPURTENANCES...
D. ENSURE SELECTED MATERIALS AND MEMBER THICKNESSES PROVIDE FOR THE MINIMUM REQUIRED FIRE-RESISTANCE RATING AS SPECIFIED IN THE ARCHITECTURAL DRAWINGS.

CAST-IN-PLACE CONCRETE NOTES

- A. PROVIDE CONCRETE IN CONFORMANCE WITH MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4000PSI AND MAXIMUM WATER TO CEMENT (W/C) RATIO OF 0.45...
B. UNLESS NOTED OTHERWISE, CONCRETE MUST REACH THE FOLLOWING PERCENTAGE OF ITS 28-DAY COMPRESSIVE STRENGTH (fc) BEFORE FORMS MAY BE REMOVED:
1. WALLS, COLUMNS, AND BEAM SIDES - 40 PERCENT
2. JOIST PANS AND BEAM BOTTOMS - 70 PERCENT
3. SHORING FOR FLOOR SYSTEM - 85 PERCENT
C. PROVIDE CONCRETE MIXES DESIGNED BY A QUALIFIED TESTING LABORATORY FOR REVIEW AND APPROVAL BY THE STRUCTURAL ENGINEER OF RECORD.
D. PROVIDE CONSTRUCTION AND CONTROL JOINTS AS INDICATED ON THE DRAWINGS...
E. CHAMFER EXPOSED EDGES 3/4 INCH UNLESS NOTED OTHERWISE.
F. WIRE BRUSH AND CLEAN CONSTRUCTION JOINTS PRIOR TO POURING NEW CONCRETE.
G. REFER TO MEP DRAWINGS FOR BELOW GRADE PIPING, FLOOR DRAINS, AND SLAB AND WALL PENETRATIONS.
H. REFER TO TYPICAL DETAILS FOR FRAMING AND REINFORCEMENT FOR MECHANICAL, ELECTRICAL, AND PLUMBING OPENINGS...
I. FOR PIPE INSTALLED HORIZONTALLY WITHIN THE SLAB, ENSURE THAT PIPING IS PLACED WITHIN MIDDLE THIRD OF SLAB THICKNESS...
J. WHEN SHOWN ON THE DRAWINGS, PROVIDE FIBER REINFORCING IN ACCORDANCE WITH THE SPECIFICATIONS...
K. REINFORCING STEEL
1. PROVIDE DETAILING, FABRICATION, AND INSTALLATION OF REINFORCING AND ACCESSORIES IN ACCORDANCE WITH ACI 315 AND ACI 318.
2. ALL REINFORCING STEEL SHALL BE NEW BILLET STEEL ASTM A615 GRADE 60 UNLESS NOTED OTHERWISE.
3. DEFORMED BAR ANCHORS (DBA) SHALL BE AWS D1.1 TYPE C STUDS MANUFACTURED IN ACCORDANCE WITH ASTM A1064 AND SHALL HAVE A MINIMUM YIELD STRENGTH OF 70,000 PSI.
4. HEADED STUD ANCHORS (HSA) FOR EMBED PLATES SHALL BE AWS D1.1 TYPE A STUDS MANUFACTURED IN ACCORDANCE WITH ASTM A108 AND SHALL HAVE A MINIMUM TENSILE STRENGTH OF 81,000 PSI.
5. SMOOTH WELDED WIRE REINFORCEMENT SHALL CONFORM TO ASTM A1064 AND SHALL HAVE A YIELD STRENGTH OF 65,000 PSI...
6. COVER SHALL CONFORM TO THE REQUIREMENTS OF ACI 318 UNLESS SPECIFIED OTHERWISE ON THE DRAWINGS...
7. SPLICES IN BEAMS AND SLABS SHALL HAVE A MINIMUM CLASS B TENSION LAP SPlice WHERE SPLICES ARE SHOWN OR REQUIRED DUE TO MATERIAL LENGTH RESTRICTIONS...
8. DO NOT WELD OR BEND REINFORCING IN THE FIELD UNLESS SPECIFICALLY SHOWN OR APPROVED BY THE STRUCTURAL ENGINEER.
9. AT INTERFACES WITH FOUNDATION ELEMENTS, DOWELS SHALL BE PROVIDED OF THE SAME SIZE AND PATTERN/SPACING TO MATCH THAT ELEMENTS SCHEDULED REINFORCING.

4 STRUCTURAL MASONRY

- A. REINFORCED MASONRY WORK AND MATERIALS TO BE IN ACCORDANCE WITH THE BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES TMS 402.
B. REINFORCED MASONRY TO CONFORM TO THE SPECIFICATIONS FOR MASONRY STRUCTURES TMS 602 (WITH THE EXCEPTIONS NOTED IN JOB SPECIFICATIONS).
C. PROVIDE CONCRETE MASONRY UNITS (CMU) OF NORMAL WEIGHT (125 PCF MINIMUM), CONFORMING TO THE LATEST EDITION OF ASTM C90...
D. PROVIDE PORTLAND CEMENT/LIME MASONRY MORTAR MEETING THE REQUIREMENTS OF TYPE M OR S PER ASTM C270...
E. PROVIDE 2,000 PSI GROUT WITH MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 3,000 PSI TESTED IN ACCORDANCE WITH ASTM C1019...
F. PROVIDE MASONRY ASSEMBLAGES WITH MINIMUM SPECIFIED MASONRY COMPRESSIVE STRENGTH (fm) OF 2,000 PSI...
G. PROVIDE CONCRETE MASONRY UNITS IN ACCORDANCE WITH ASTM C426 LIMITS FOR DRYING SHRINKAGE...
H. REFER TO THE ARCHITECTURAL DRAWINGS FOR THE EXTENT OF MASONRY WALLS...
I. PROVIDE VERTICAL REINFORCEMENT IN CMU WALLS AS SHOWN IN DRAWINGS...
J. PROVIDE HORIZONTAL JOINT REINFORCING IN WALLS AT 16 INCHES ON CENTER...
K. MINIMUM REINFORCEMENT OF MASONRY UNITS SHALL BE (1)-#5 VERTICAL AT 48", (1)-#5 VERTICAL AT EACH CORNER, (1)-#5 VERTICAL AT EACH SIDE OF OPENINGS UP TO 12'-0" WIDE...
L. LAY HOLLOW UNITS WITH FULL MORTAR COVERAGE ON HORIZONTAL AND VERTICAL FACE SHELLS...
M. ALIGN VERTICAL CELLS TO BE FILLED WITH GROUT TO PROVIDE CONTINUOUS UNOBSTRUCTED VERTICAL CELLS...
N. PROVIDE AN 8-INCH HIGH BOND BEAM (MINIMUM DEPTH UNLESS OTHERWISE NOTED) AT TOP OF ALL CMU WALLS...
O. PROVIDE VERTICAL REINFORCING AT EACH SIDE OF CONTROL JOINT PER TYPICAL DETAILS...
P. INSTALL ANCHORS, ACCESSORIES, AND OTHER ITEMS TO BE BUILT IN AS WORK PROGRESSES.
Q. LAP SPICE VERTICAL REINFORCING MINIMUM OF 48 BAR DIAMETERS OR 24 INCHES...
R. PERFORM CUTTING AND FITTING OF MASONRY WITH MASONRY SAWS PROVIDING CUT FINISHED UNITS.
S. CELLS AT OR BELOW FINISHED GRADE ARE TO BE GROUTED SOLID.
T. WHEN A FOUNDATION DOWEL DOES NOT LINE UP WITH A VERTICAL CORE, DO NOT SLOPE DOWEL MORE THAN 1:6 (H/V).
U. WHEN VERTICAL DOUBLE REINFORCED CELLS ARE SPECIFIED IN FINE GROUT, PROVIDE 1/4 INCH CLEARANCE FROM INSIDE FACE OF THE BLOCK...
V. AT THE HIGHEST POINT OF VERTICAL BAR EXTENTS, VERTICAL BARS SHALL TERMINATE INTO BOND BEAM...
W. PROVIDE L-SHAPED CORNER BARS FOR HORIZONTAL REINFORCEMENT AT ALL BOND BEAM AND THE BEAM INTERSECTIONS.
X. CORRUGATED TIE ELEMENTS ARE NOT PERMITTED IN ANY LOCATIONS.
Y. WHERE MASONRY ABUTS VERTICAL CAST-IN-PLACE CONCRETE MEMBERS AND ARE NOT SEPARATED BY AN ISOLATION JOINT, CONCRETE SHALL BE ROUGHENED TO AN APPROXIMATE 1/8" AMPLITUDE (CSP 6) AND THE ADJACENT MASONRY SHALL BE BONDED TO THE CONCRETE.



5401 W. KENNEDY BLVD. STE 300 & 900 Tampa, FL 33609 P:(813) 282-3500 www.jacobs.com

Revision table with columns for NO., DATE, REVISION, CHK, and initials (B. ROWAN, J. TULLER, R. WALTERS)



Project Title: FILTER BUILDING ROOF RETROFIT & SITE IMPROVEMENTS Drawing Title: GENERAL NOTES

Date: 07/08/2022 Proj. No.: D3237903 Drawing No.: FL-S-001

TRIB AREA (SQ FT)	ASCE 7-16 ROOF DESIGN PRESSURES						
	DESIGN WIND PRESSURE (PSF)						
	①	②	③	④	⑤	⑥	⑦
10	+26.2 -58.9	+26.2 -102.4	+58.9 -135.1	+58.9 -135.1	-92.6	-125.3	-125.3
20	+24.5 -58.9	+24.5 -95.7	+56.2 -126.5	+56.2 -126.5	-91.0	-113.7	-113.7
50	+22.3 -58.9	+22.3 -86.8	+52.8 -115.0	+52.8 -115.0	-88.8	-98.4	-98.4
100	+16.0 -50.6	+20.7 -80.0	+50.2 -106.3	+50.2 -106.3	-87.2	-86.8	-86.8
500	+16.0 -39.8	+20.7 -64.3	+44.1 -86.1	+44.1 -86.1	-54.5	-59.9	-59.9

a = 9.0 FT
h = 45 FT
0.2h = 9.0 FT
0.6h = 27.0 FT

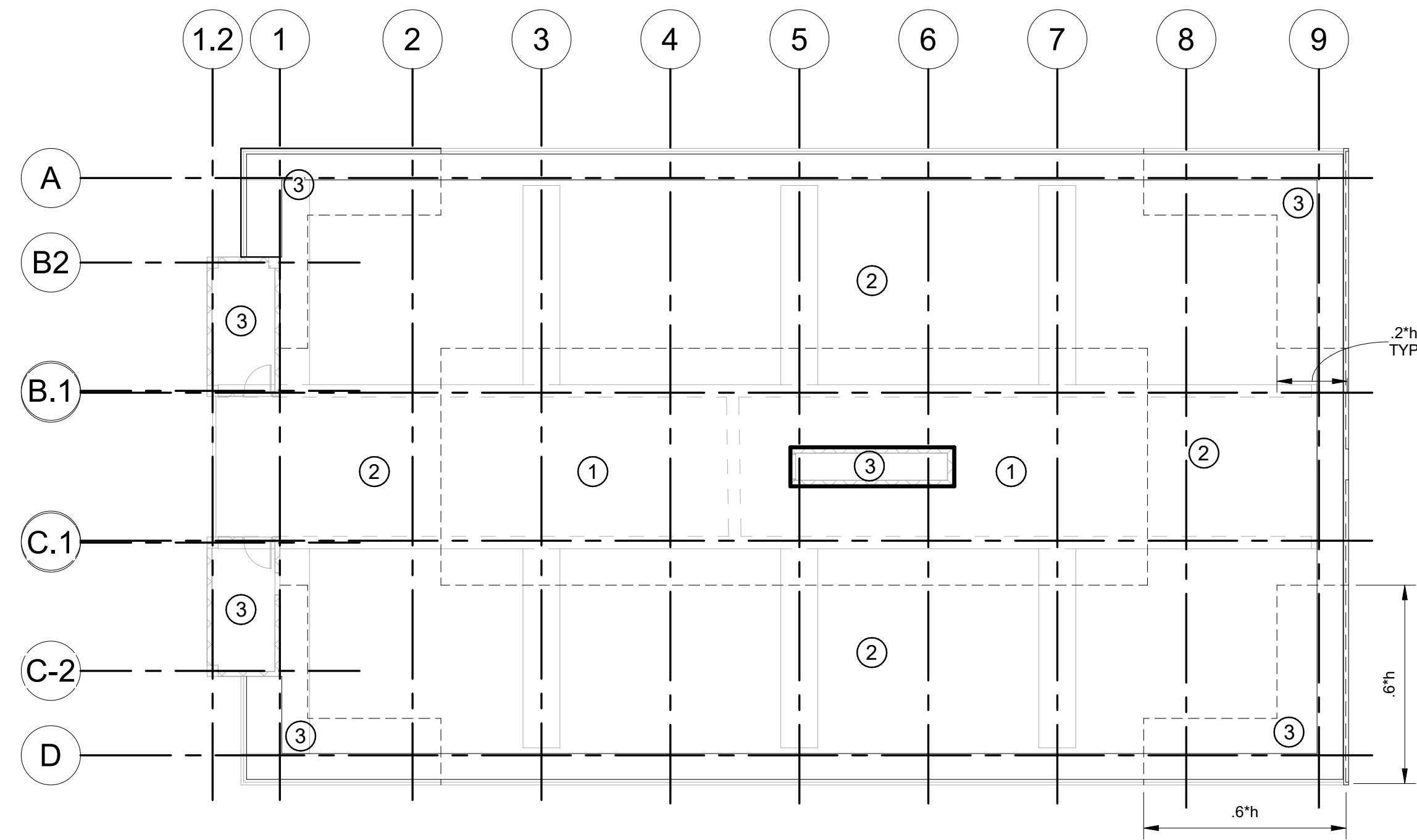
TRIB AREA (SQ FT)	ASCE 7-16 WALL DESIGN PRESSURES			
	DESIGN WIND PRESSURE (PSF)			
	④	⑤	P4	P5
10	+58.9 -63.8	+58.9 -78.5	+178.1	+178.1
20	+56.2 -61.1	+56.2 -73.3	+166.6	+166.6
50	+52.8 -57.7	+52.2 -66.4	+151.3	+151.3
100	+50.2 -55.1	+50.2 -61.1	+139.8	+139.8
500	+44.1 -49.0	+44.1 -49.0	+113.0	+113.0

NOTES:

- WIND PRESSURES USED FOR THE DESIGN OF COMPONENTS AND CLADDING ARE SHOWN IN THE ADJACENT TABLES. PRESSURES ARE CALCULATED USING ASCE 7-16 AND ARE ULTIMATE, FACTORED LOADS (LRFD). FOR ALLOWABLE LOAD PRESSURES, REFER TO THE LOAD COMBINATIONS IN ASCE 7-16 FOR APPROPRIATE LOAD REDUCTION FACTORS.
- COMPONENT AND CLADDING PRESSURES ACT NORMAL TO THE SURFACE. POSITIVE PRESSURES ACT TOWARD THE SURFACE AND NEGATIVE PRESSURES ACT AWAY FROM THE SURFACE.
- DESIGN PRESSURES FOR COMPONENTS AND CLADDING ELEMENTS SHALL NOT BE LESS THAN 16 PSF IN EITHER DIRECTION NORMAL TO THE SURFACE.
- THE EFFECTIVE WIND AREA IS THE SPAN LENGTH MULTIPLIED BY AN EFFECTIVE WIDTH THAT NEED NOT BE LESS THAN ONE-THIRD OF THE SPAN LENGTH. FOR CLADDING FASTENERS, THE EFFECTIVE WIND AREA SHALL NOT BE GREATER THAN THE AREA TRIBUTARY TO THE INDIVIDUAL FASTENER IN QUESTION.
- OVERHANG AND PARAPET PRESSURES SHOWN ARE NET PRESSURES ON THE OVERHANG OR PARAPET WALL ASSEMBLY. PRESSURES AT THE BOTTOM FACE OF OVERHANGS SHALL BE EQUAL TO THE ADJACENT WALL PRESSURE.
- PARAPETS EQUAL TO OR GREATER THAN 3 FT AROUND THE PERIMETER OF THE ROOF WITH SLOPE LESS THAN 8 DEGREES SHALL HAVE NEGATIVE ROOF PRESSURES IN ZONE 3 EQUAL TO THOSE IN ZONE 2, AND POSITIVE VALUES IN ZONES 2 AND 3 EQUAL TO THOSE FOR WALL ZONES 4 AND 5, RESPECTIVELY.

1 WIND PRESSURE SCHEDULES

1" = 1'-0"



2 WIND PRESSURE DIAGRAM

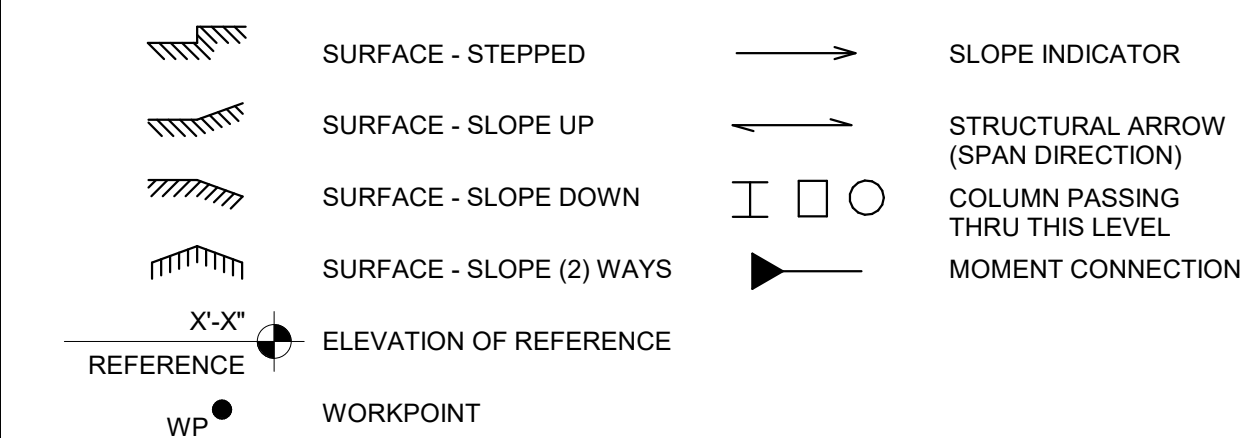
1/16" = 1'-0"

ABBREVIATIONS

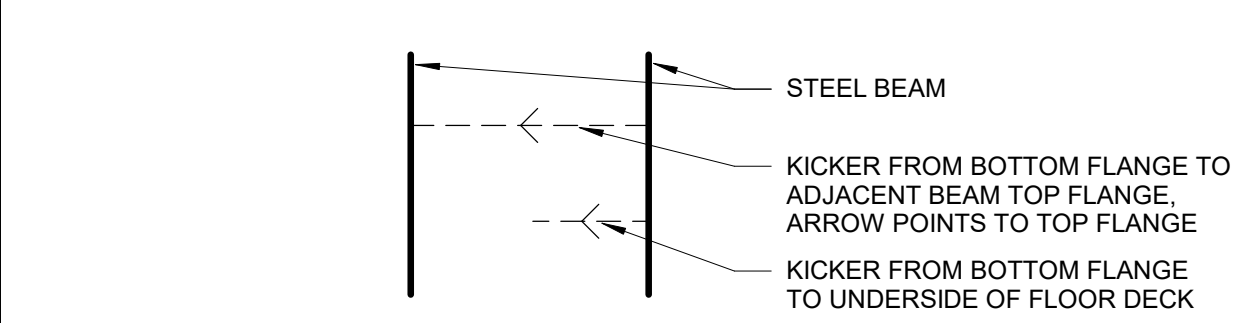
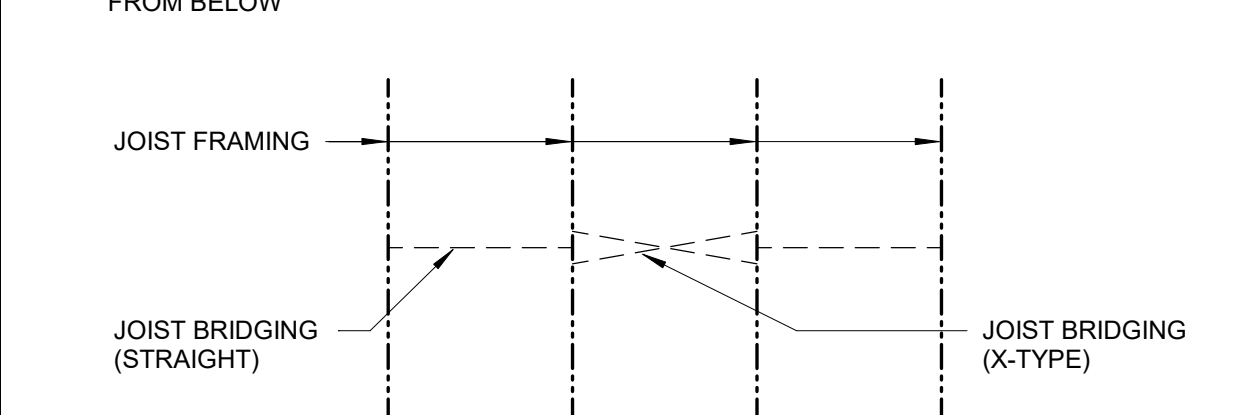
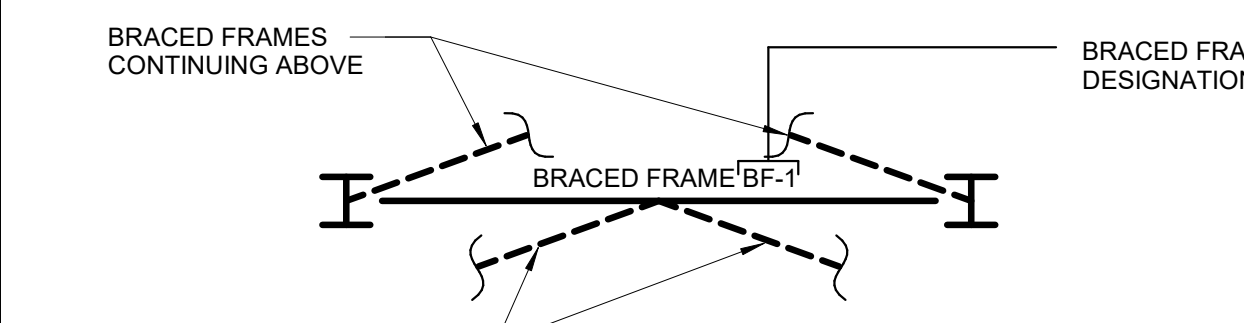
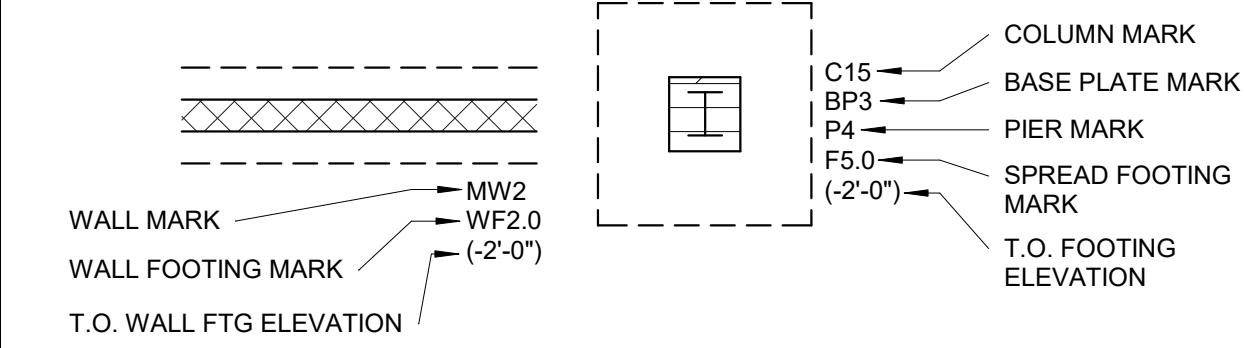
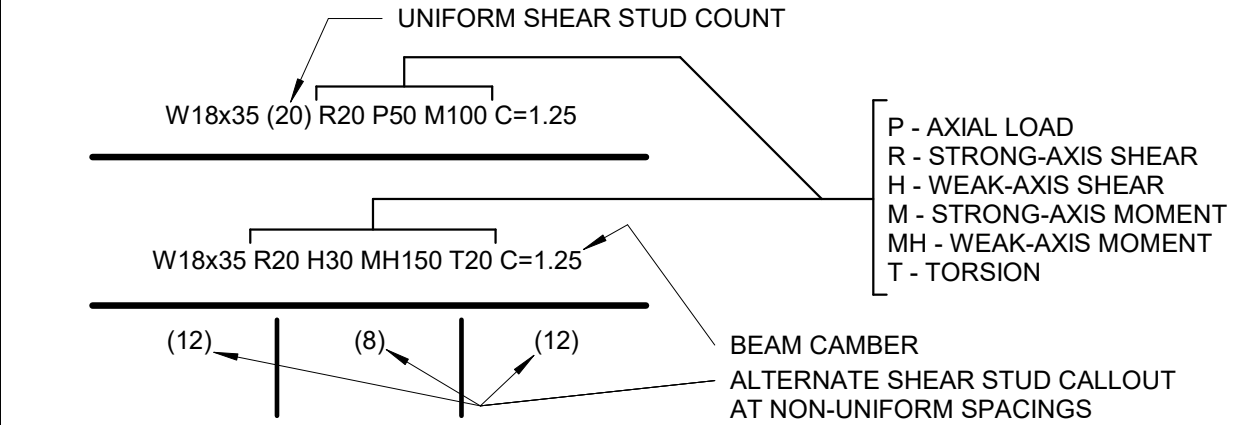
(ALL ABBREVIATIONS/SYMBOLS SHOWN ARE NOT NECESSARILY USED ON THE DRAWINGS)

AB	ANCHOR BOLT	LONG	LONGITUDINAL
ACI	AMERICAN CONCRETE INSTITUTE	LSH	LONG SIDE HORIZONTAL
ADDL	ADDITIONAL	LSLP	LONG-SLOTTED HOLE PARALLEL
AECS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL	LSLT	LONG-SLOTTED HOLE TRANSVERSE
AFF	ABOVE FINISHED FLOOR	LSV	LONG SIDE VERTICAL
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	LWC	LIGHTWEIGHT CONCRETE
AISI	AMERICAN IRON AND STEEL INSTITUTE	MAS	MASONRY
ALUM	ALUMINUM	MATL	MATERIAL
ALT	ALTERNATE	MAX	MAXIMUM
APPROX	APPROXIMATELY	MECH	MECHANICAL
ARCH	ARCHITECT, ARCHITECTURAL	MEZZ	MEZZANINE
ASSY	ASSEMBLY	MTL	METAL
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	MFG	MANUFACTURING
AWS	AMERICAN WELDING SOCIETY	MFR	MANUFACTURER
		MIN	MINIMUM
B, B/O	BOTTOM OF BRACED FRAME	MISC	MISCELLANEOUS
BF	BUILDING	MO	MASONRY OPENING
BLDG	BLK	MOD	MODIFY, MODIFICATION
BLK	BEAM OR BENCH MARK	MTL	METAL
BM	BOTTOM		
BOT	BASE PLATE	N	NORTH
BP	BETWEEN	NA	NOT APPLICABLE
BTVN		NF	NEAR FACE
		NIC	NOT IN CONTRACT
C	CAMBER	NOM	NOMINAL
CANT, CANTIL	CANTILEVER	NS	NEAR SIDE
CF	CUBIC FOOT/FEET	NNT	NOT TO SCALE
CFSF	COLD FORMED STEEL FRAMING	NWC	NORMAL-WEIGHT CONCRETE
CH	CHORD		
CIP	CAST-IN-PLACE	OC	ON CENTER
CJ	CONTROL JOINT	OD	OUTSIDE DIAMETER
CL	CENTERLINE	OF	OUTSIDE FACE
CJP	COMPLETE JOINT PENETRATION	OP	OPPOSITE HAND
CLR	CLEAR	OPNG	OPENING
CMU	CONCRETE MASONRY UNIT	OPP	OPPOSITE
CO	CLEAN OUT	ORIG	ORIGINAL
COL	COLUMN	OVS	OVERSIZED HOLE
CONC	CONCRETE		
CONN	CONNECTION	PAF	POWDER ACTUATED FASTENER
CONSTR	CONSTRUCTION	PC	PIECE
CONT	CONTINUOUS	PCC	PRECAST CONCRETE
CONTR	CONTRACTOR	PCF	POUNDS PER CUBIC FOOT
COORD	COORDINATE	PCY	POUNDS PER CUBIC YARD
CTR	CENTER	PJP	PARTIAL JOINT PENETRATION
OY	CUBIC YARD	PL	PLATE
		PLF	POUNDS PER LINEAR FOOT
DBA	DEFORMED BAR ANCHOR	PLYWD	PLYWOOD
DBL	DOUBLE	PREFAB	PREFABRICATED
DCW	DEMAND CRITICAL WELD	PREFL	PRELIMINARY
DECS	DEGREE	PROP	PROPERTY
DEMO	DEMOLITION	PSF	POUNDS PER SQUARE FOOT
DET	DETAIL	PSI	POUNDS PER SQUARE INCH
DIA	DIAMETER	PT	PRESSURE TREATED, POST-TENSION(ED)
DIAG	DIAGONAL, DIAGRAM		
DIM	DIMENSION	QTY	QUANTITY
DN	DOWN		
DO	DITTO	R, RAD	RADIUS
DWG	DRAWING	RC	REINFORCED CONCRETE
		RCP	REINFORCED CONCRETE PIPE
EA	EACH	REF	REFERENCE
EF	EACH FACE	REINF	REINFORCED, REINFORCEMENT
EJ	EXPANSION JOINT	REM	REMAINDER
EL	ELEVATION	REQD	REQUIRED
ELEC	ELECTRIC, ELECTRICAL	REV	REVISION
ELEV	ELEVATION	RO	ROUGH OPENING
EOR	ENGINEER OF RECORD	RP	REFERENCE POINT
EOS	EDGE OF SLAB	RS	ROCK SOCKET
EQ	EQUAL	RTU	ROOF TOP UNIT
EQUIP	EQUIPMENT		
EST	ESTIMATE	SC	SLIP CRITICAL
EW	EA WAY	SCHED	SCHEDULE(D)
EXIST	EXISTING	SDI	STEEL DECK INSTITUTE
EXP	EXPANSION	SDS	SELF-DRILLING SCREW
EXT	EXTERIOR, EXTERNAL	SECT	SECTION
		SF	SQUARE FEET
FAB	FABRICATE	SHT	SHEET
FD	FLOOR DRAIN	SIM	SIMILAR
FDN, FDTN	FOUNDATION	SJI	STEEL JOINT INSTITUTE
FFE	FINISHED FLOOR ELEVATION	SK	SKETCH
FF	FAR FACE	SLBB	SHORT LEGS BACK TO BACK
FIN	FINISHED	SLV	SLEEVE
FLG	FLANGE	SOG	SLAB ON GRADE
FLR	FLOOR, FLOORING	SPA	SPACING
FM	FACTORY MUTUAL	SPEC	SPECIFICATION(S)
FP	FULL PENETRATION WELD	SQ	SQUARE
FS	FAR SIDE	SS	STAINLESS STEEL
FT	FOOT/FEET	SSLP	SHORT-SLOTTED HOLE PARALLEL
FTG	FOOTING	SSLT	SHORT-SLOTTED HOLE TRANSVERSE
FUT	FUTURE	STD	STANDARD
FV	FIELD VERIFY	STIFF	STIFFENER
		STIR, STRP	STIRRUP
GA	GAGE/GAUGE	STL	STEEL
GALV	GALVANIZE(D)	STRUCT	STRUCTURE, STRUCTURAL
GB	GRADE BEAM	SUSP	SUSPENDED
GC	GENERAL CONTRACTOR	SYMM	SYMMETRICAL
GEN	GENERAL	SYS	SYSTEM
GOVT	GOVERNMENT	SW	SHORT WAY, SHEAR WALL
GR	GROUND, GRADE		
		T	TOP
HK	HOOK	T&G	TONGUE AND GROOVE
HM	HOLLOW METAL	TBD	TO BE DETERMINED
HORIZ	HORIZONTAL	TEMP	TEMPORARY
HP	HIGH POINT	THK	THICK
HSA	HEADED STUD ANCHOR	THRU	THROUGH
HSS	HOLLOW STRUCTURAL STEEL	TI, T/O	TOP OF
HT	HEIGHT	TOC	TOP OF CONCRETE
HVAC	HEATING VENT, AIR COND.	TOM	TOP OF MASONRY
		TOS	TOP OF STEEL/SLAB
ID	INSIDE DIAMETER	TRANS	TRANSVERSE
IF	INSIDE FACE	TRD	TREAD
IN	INCHES	TYP	TYPICAL
INCL	INCLUDING		
INFO	INFORMATION	UL	UNDERWRITER'S LABORATORIES
INT	INTERIOR OR INTERNAL	UNO	UNLESS NOTED OTHERWISE
		VERT	VERTICAL
JT	JOINT	VIF	VERIFY IN FIELD
		W	WIDTH
K	KIPS	W/	WITH
KB	KWIK BOLT	WD	WOOD
KO	KNOCK OUT	W/O	WITHOUT
KSF	KIPS PER SQUARE FOOT	WF	WIDE FLANGE
KSI	KIPS PER SQUARE INCH	WP	WORK POINT
		WS	WATER STOP
LB(S)	POUND(S)	WT	WEIGHT
Ld	DEVELOPMENT LENGTH	WWR	WELDED WIRE REINFORCEMENT
Lf	LINEAR FEET		
LLBB	LONG LEGS BACK TO BACK	XS	EXTRA STRONG
LLH	LONG LEG HORIZONTAL	XXS	DOUBLE EXTRA STRONG
LLV	LONG LEG VERTICAL		
LOA	LENGTH OVERALL		
LOC	LOCATION		

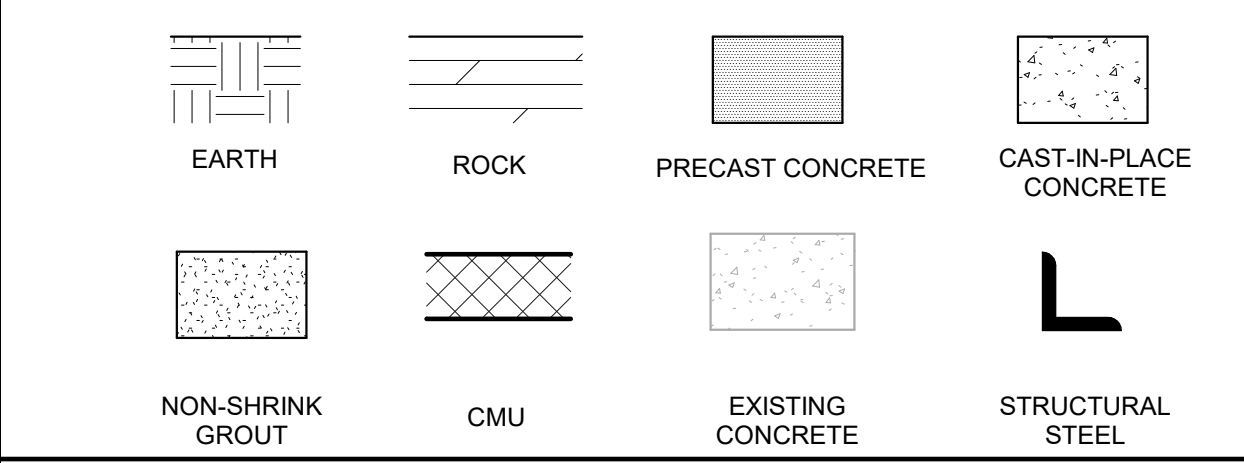
STRUCTURAL SYMBOLS



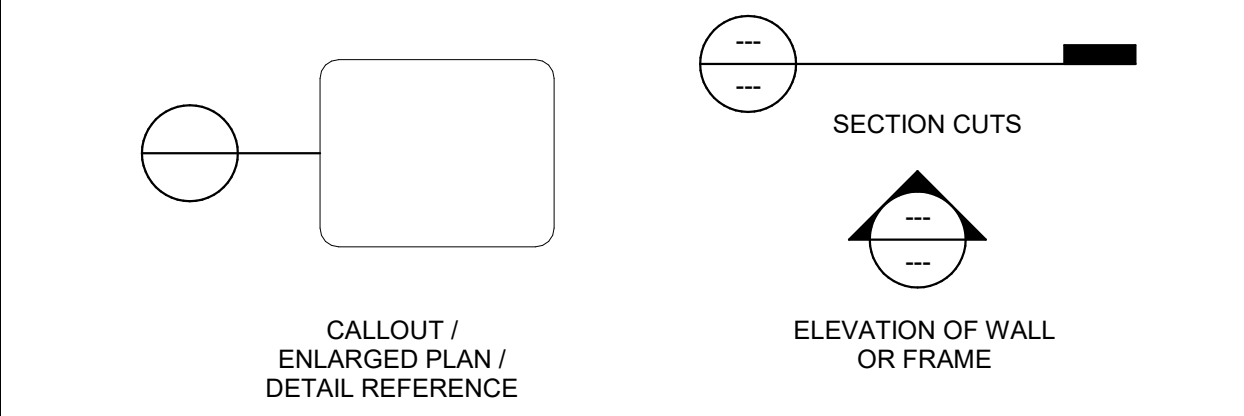
NOTE: ALL LOADS ARE IN KIP OR KIP-FT AND CAMBERS ARE IN INCHES



MATERIAL GRAPHIC SYMBOLS



SHEET SYMBOLS



5401 W. KENNEDY BLVD.
STE 300 & 900
Tampa, FL 33609
P:(813) 282-3500
www.jacobs.com

©Jacobs Engineering Group Inc. 2022 ALL RIGHTS RESERVED

NO.	DATE	DR	R. WALTERS
REVISION	CHK	J. TULLER	
BY	AP/VD	B. ROWAN	



Project Title: FILTER BUILDING ROOF RETROFIT & SITE IMPROVEMENTS
Drawing Title: SYMBOLS AND NOTATIONS

Date: 07/08/2022
Proj. No.: D3237903
Drawing No.: FL-S-002

GENERAL NOTES:

1. SEE CIVIL AND EXISTING PLANS FOR ALL ELEVATIONS, CONFIRM IN FIELD AND ADJUST TO AS-BUILT CONDITIONS.
2. ROOF ELEVATION TO BE FIELD VERIFIED AND ALIGN WITH CURRENT STRUCTURE, SEE SECTIONS AND DETAILS.
3. PRIOR TO FABRICATION AND CONSTRUCTION, THE CONTRACTOR SHALL VERIFY DIMENSION AND ELEVATIONS WITH THE ARCHITECTURAL DRAWINGS. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE A/E BEFORE PROCEEDING WITH FABRICATION AND CONSTRUCTION.
4. COORDINATE FINAL SIZE AND LOCATION OF ROOF OPENINGS AND CHASES WITH ARCHITECTURAL AND MEP/FP DRAWINGS. REFER TO TYPICAL DETAILS FOR ADDITIONAL REINFORCEMENT AT OPENINGS.
5. CONTRACTOR TO VERIFY EXISTING CONCRETE STRUCTURE IS IN GOOD CONDITION PRIOR TO COMPLETION OF PROPOSED SCOPE OF WORK AND REPORT ANY DAMAGED OR DETERIORATED CONDITIONS TO EOR INCLUDING PHOTO DOCUMENTATION AND MEASUREMENTS OF DAMAGE DISPLAYED ON SCALED PLANS. CONTRACTOR SHALL INCLUDE AN ALLOTMENT OF MINIMUM 500 LF OF PRESSURE INJECTED OR GRAVITY FED EPOXY REPAIR AND 100 CUBIC FEET ON CONCRETE SPALL REPAIR TO BE USED AT THE SOLE DISCRETION AND DIRECTION OF THE EOR.

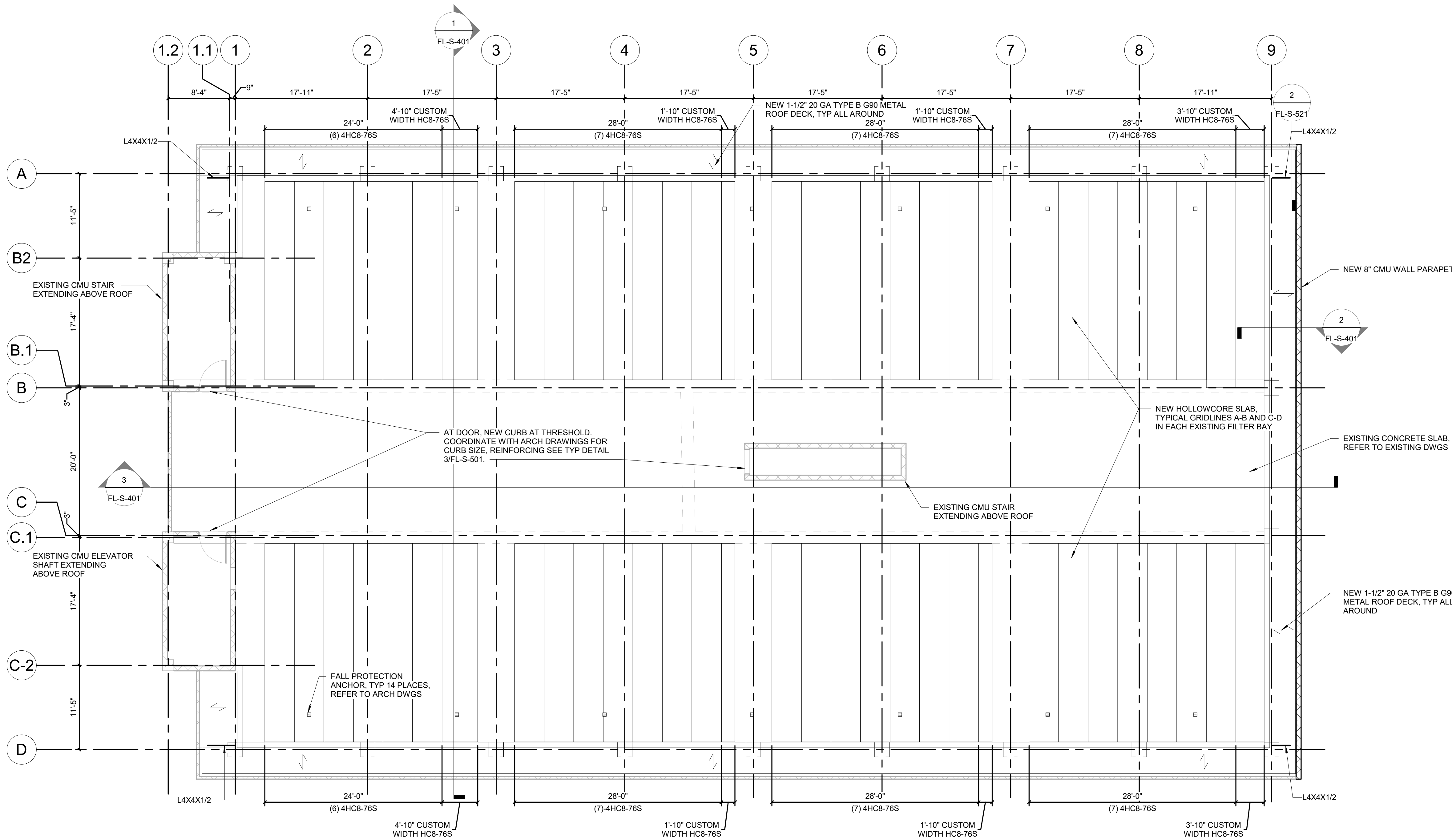


5401 W. KENNEDY BLVD.
STE 300 & 900
Tampa, FL 33609
P:(813) 282-3500
www.jacobs.com

© Jacobs Engineering Group Inc. 2022 ALL RIGHTS RESERVED

FALL PROTECTION:

1. FALL PROTECTION SYSTEM SHALL BE DESIGNED AND LAID OUT BY DELEGATED SPECIALITY ENGINEER OR EQUIPMENT MANUFACTURE. BASIS OF DESIGN AND APPROXIMATE LOCATIONS ARE SHOWN AND DIMENSIONED ON ARCHITECTURAL PLANS BUT MAY BE MODIFIED BY DELEGATED ENGINEER FOR FINAL DESIGN. MANUFACTURE SHALL PROVIDED FINALIZED LAYOUTS AND REACTIONS FOR REVIEW BY THE EOR PRIOR TO PRECAST HOLLOW CORE PLANK DESIGN.
2. PRECAST ENGINEER SHALL VERIFY CAPACITY OF HOLLOW CORE PLANKS TO TAKE THE ADDITIONAL LOCALIZED LOAD OF THE FALL PROTECTION DAVITS WHERE SHOWN IN SHOP DRAWINGS.
3. DESIGN LOADS TO BE USED AS MINIMUM UNLESS ADDITIONAL DATA PROVIDED BY FALL PROTECTION ENGINEER AND APPROVED BY THE EOR.
 - A. Paddl - 5,000 LBS (ANY DIRECTION)
 - B. Maddl - 10,000 LB-FT (CONCENTRATED MOMENT ON HOLLOW CORE PLANK)
4. FALL PROTECTION SYSTEM IS ASSUMED TO BE DIRECTLY ANCHORED TO PRECAST HOLLOW CORE PLANKS. ANY POST INSTALLED ANCHORAGE SHOULD USE X-RAY OR GPR TO LOCATE TENDONS TO ENSURE ANCHOR LAYOUT DOES NOT CONFLICT WITH REINFORCEMENT.



1 ROOF FRAMING PLAN
1/8" = 1'-0"

NO.	DATE	DR	CHK	REVISION	BY	AP/VD

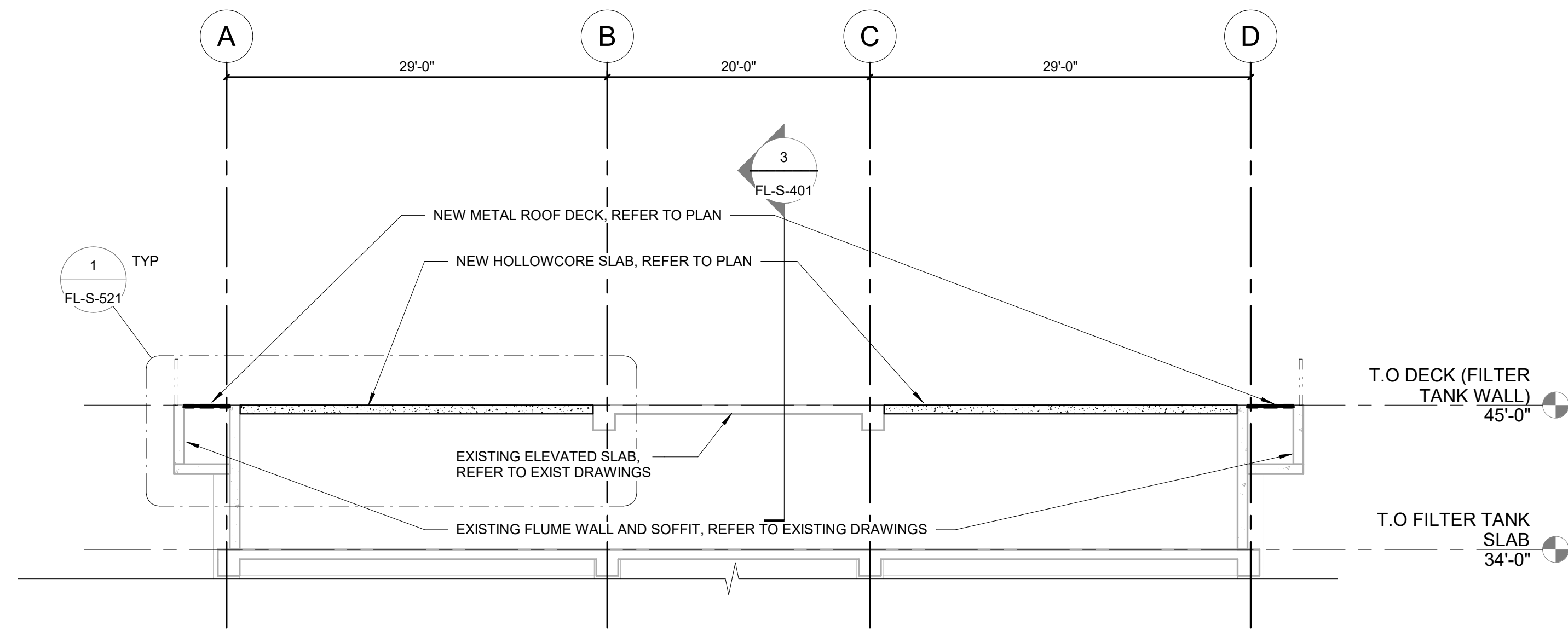


Project Title:
FILTER BUILDING ROOF RETROFIT & SITE IMPROVEMENTS
Drawing Title:
ROOF FRAMING PLAN

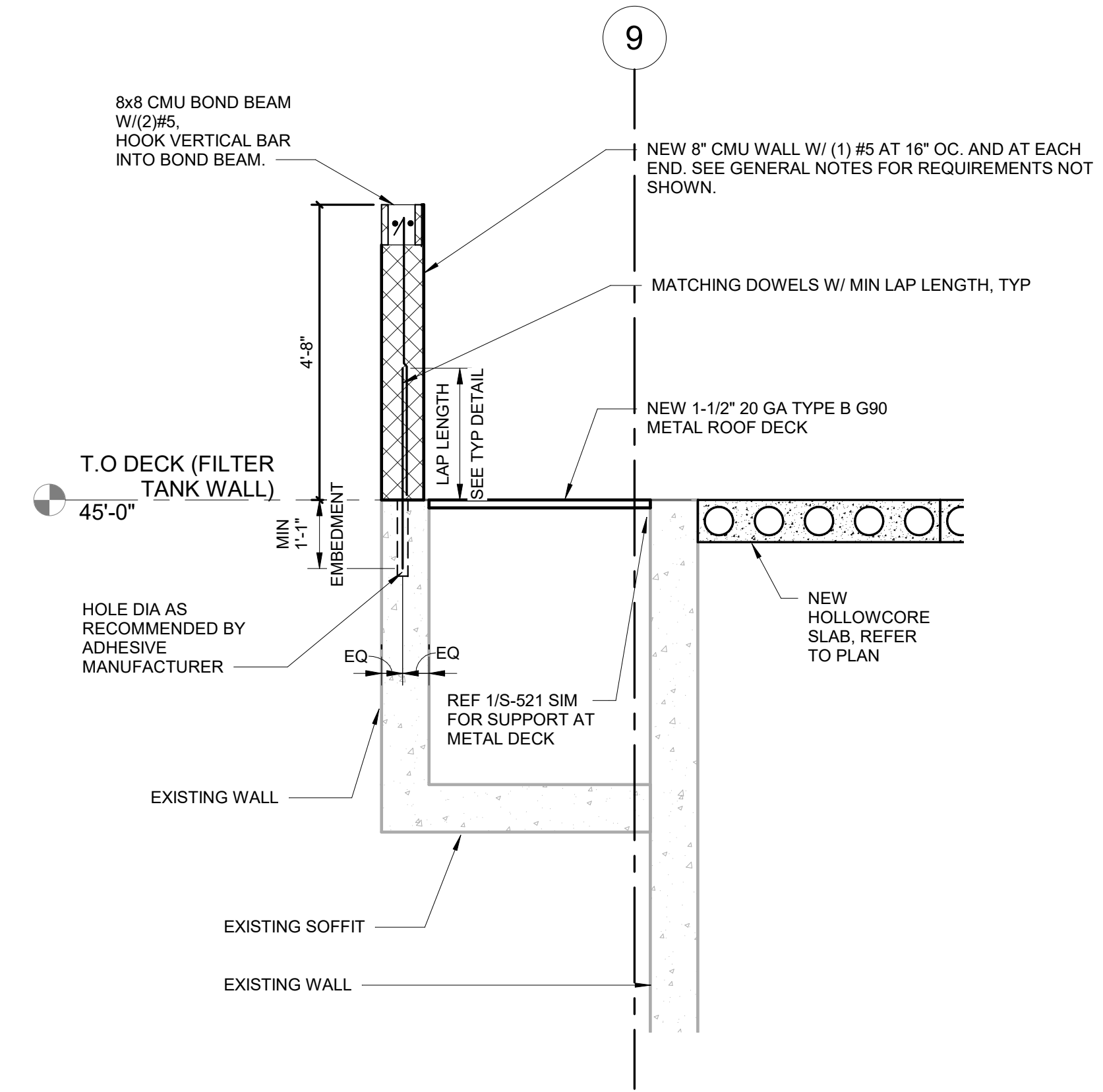
Date: 07/08/2022
Proj. No.: D3237903
Drawing No.:

FL-S-102

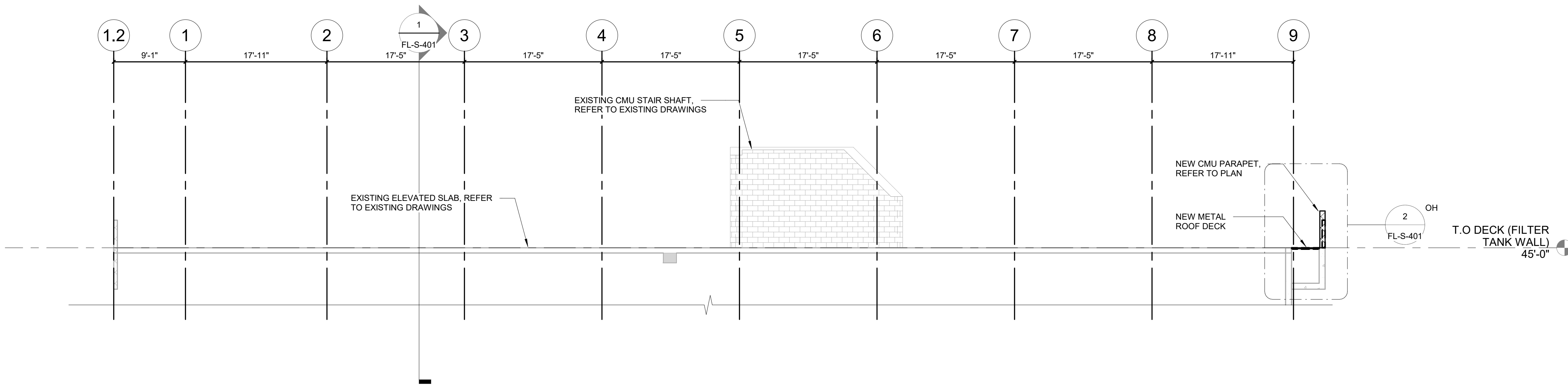
100% CD SET



1 BUILDING SECTION - NORTH/SOUTH
1/8" = 1'-0"



2 SECTION AT EAST FLUME
1/2" = 1'-0"



3 BUILDING SECTION - EAST/WEST
1/8" = 1'-0"

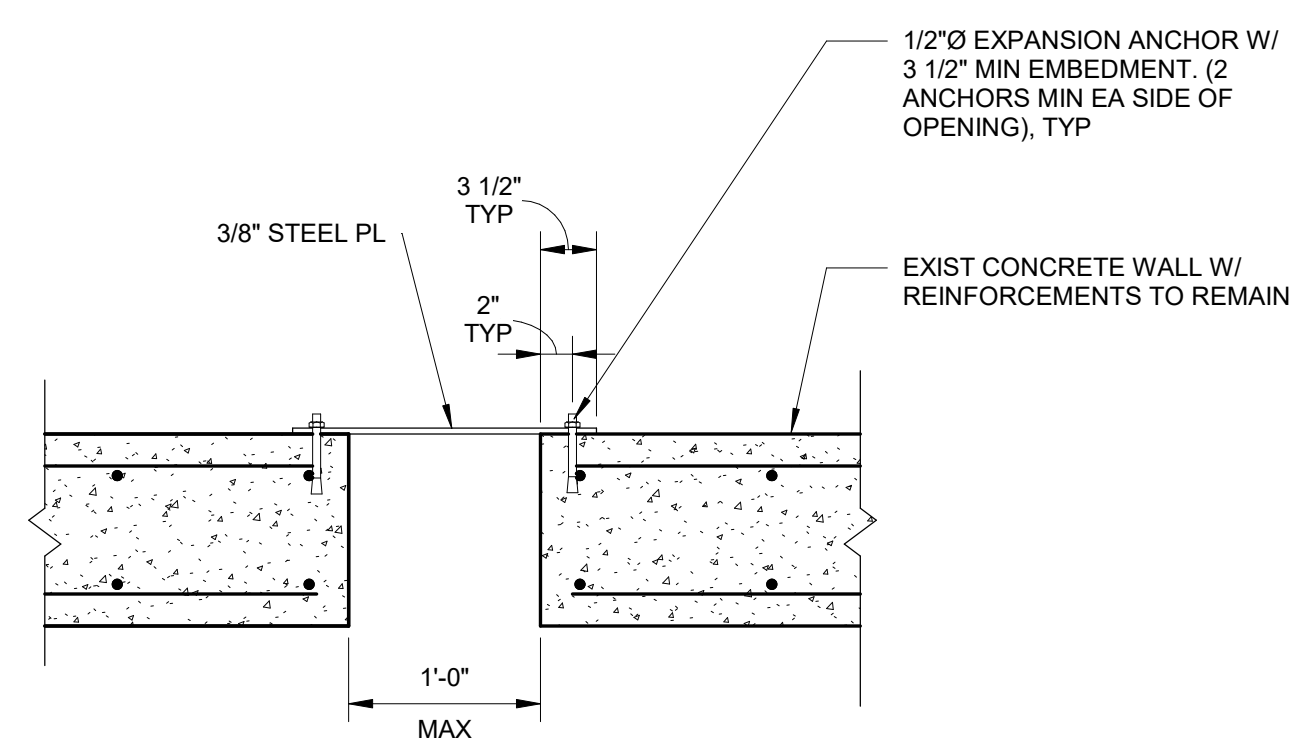
NO.	DATE	DR	CHK	APVD
			J. TULLER	B. ROWAN
				B. ROWAN
				B. ROWAN



Project Title: FILTER BUILDING ROOF RETROFIT & SITE IMPROVEMENTS
Drawing Title: BUILDING SECTIONS AND DETAILS

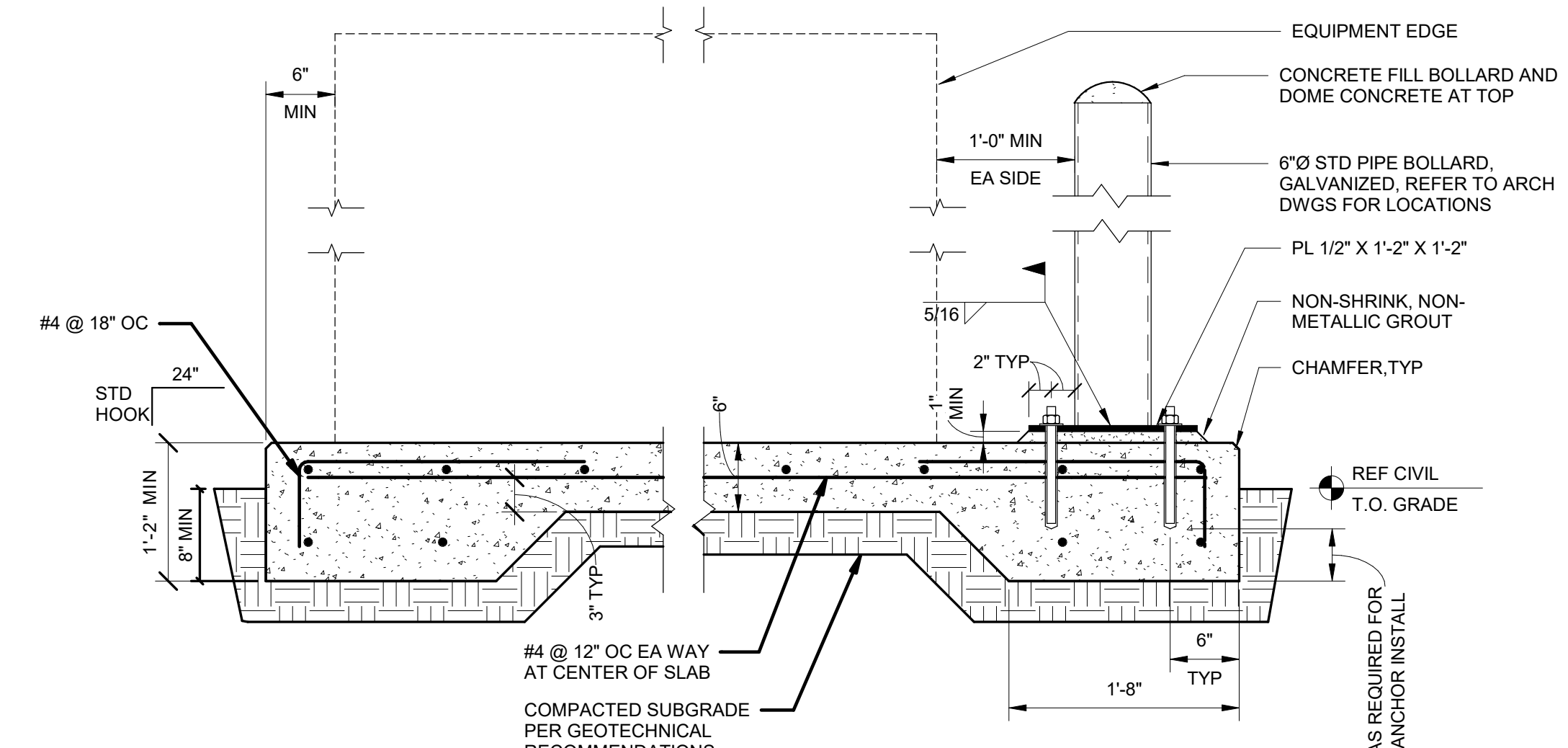
Date: 07/08/2022
Proj. No.: D3237903
Drawing No.: FL-S-401

100% CD SET



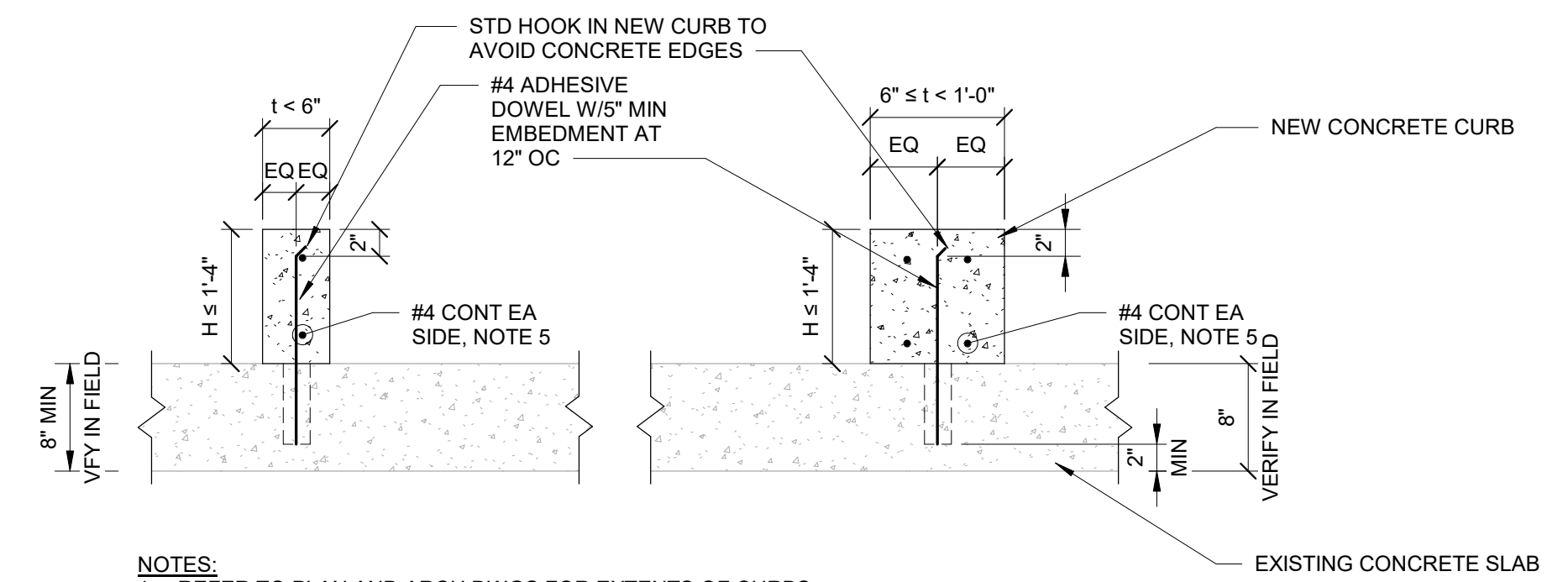
- NOTES:
- COORDINATE INSTALLATION LOCATION WITH EXISTING REINFORCEMENT TO ENSURE REINFORCEMENT IS NOT DAMAGED. DRILL PILOT HOLES OR USE OTHER APPROVED METHODS TO LOCATE REINFORCEMENT PRIOR TO DRILLING AND INSTALLING ANCHORS.
 - OPENINGS SMALLER THAN 6" DIAMETER OR 6" SQ MAY BE FILLED WITH NON-SHRINK GROUT. ROUGHEN SURFACE OR EXISTING CONCRETE PRIOR TO POUR TO ENSURE BOND.
 - OPENINGS LARGER THAN 1'-0" BUT LESS THAN 4'-0" SHALL BE FILLED WITH STEEL ROOF DECK SUPPORTED ON ANGLES MATCHING FLUME INFILL SECTION AND REQUIREMENTS SHOWN ON FL-S-521. ANY OPENING LARGER SHALL BE FILLED WITH HOLLOW CORE PLANKING.

1 TYPICAL EXIST CONCRETE ROOF SLAB OPENING REPAIR
1" = 1'-0"



- NOTES:
- COORDINATE PAD LOCATION AND SIZE WITH ARCHITECTURAL, CIVIL, MECHANICAL, PLUMBING & ELECTRICAL DRAWINGS AND EQUIPMENT MFR RECOMMENDATIONS.
 - COORDINATE PAD THICKENED EDGE WITH BOLLARD MFR.
 - ANCHOR BOLLARD PER MFR RECOMMENDATIONS.
 - ANCHOR EQUIPMENT PER MFR RECOMMENDATIONS.
 - COORDINATE BOLLARD LOCATION AND SPACING WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.

2 TYP EXTERIOR EQUIPMENT PAD DETAIL
1" = 1'-0"



- NOTES:
- REFER TO PLAN AND ARCH DWGS FOR EXTENTS OF CURBS.
 - EXISTING CURB/WALL/SLAB REINFORCEMENT NOT SHOWN.
 - PROVIDE INSERTS AS REQUIRED BY ARCH & MECH DWGS. PROVIDE ADDITIONAL REINFORCEMENT AT INSERTS AS NEEDED.
 - PROVIDE CONTINUOUS WATERSTOP CENTERED IN CURB.
 - WHEN CURB HEIGHT, H, EXCEEDS 8", PROVIDE 2 LAYERS OF LONGITUDINAL REINFORCEMENT.

3 TYPICAL CONCRETE CURB REINFORCEMENT
1" = 1'-0"

'Ldh' TENSION DEVELOPMENT LENGTH FOR STANDARD END HOOKS (GRADE 60 BARS - NORMAL WEIGHT CONCRETE - GENERAL USE)

BAR SIZE	fc=3000 psi		fc=4000 psi		fc=5000 psi		fc=6000 psi		fc=7000 psi		fc=8000 psi	
	Ldh	Ldh	Ldh	Ldh	Ldh	Ldh	Ldh	Ldh	Ldh	Ldh	Ldh	Ldh
#3	0'-9"	0'-8"	0'-7"	0'-6"	0'-6"	0'-6"	0'-6"	0'-6"	0'-6"	0'-6"	0'-6"	0'-6"
#4	0'-11"	0'-10"	0'-9"	0'-8"	0'-8"	0'-8"	0'-8"	0'-8"	0'-8"	0'-8"	0'-8"	0'-7"
#5	1'-2"	1'-0"	0'-11"	0'-10"	0'-9"	0'-9"	0'-9"	0'-9"	0'-9"	0'-9"	0'-9"	0'-9"
#6	1'-5"	1'-3"	1'-1"	1'-0"	0'-11"	0'-11"	0'-11"	0'-11"	0'-11"	0'-11"	0'-11"	0'-11"
#7	1'-8"	1'-5"	1'-3"	1'-2"	1'-1"	1'-1"	1'-1"	1'-1"	1'-1"	1'-1"	1'-1"	1'-0"
#8	1'-10"	1'-7"	1'-5"	1'-4"	1'-3"	1'-3"	1'-3"	1'-3"	1'-3"	1'-3"	1'-3"	1'-2"
#9	2'-1"	1'-10"	1'-8"	1'-6"	1'-5"	1'-5"	1'-5"	1'-5"	1'-5"	1'-5"	1'-5"	1'-4"
#10	2'-4"	2'-1"	1'-10"	1'-8"	1'-7"	1'-7"	1'-7"	1'-7"	1'-7"	1'-7"	1'-7"	1'-6"
#11	2'-7"	2'-5"	2'-0"	1'-10"	1'-9"	1'-9"	1'-9"	1'-9"	1'-9"	1'-9"	1'-9"	1'-7"

- NOTES:
- WHERE REINFORCEMENT HAS A CLEAR COVER GREATER THAN 2 1/2" ON EACH SIDE OF THE HOOK (NORMAL TO THE PLANE OF THE HOOK), IT SHALL BE ACCEPTABLE TO REDUCE THE DEVELOPMENT LENGTH BY A FACTOR OF 0.7, BUT SHALL NOT BE LESS THAN 6" AFTER THE REDUCTION.
 - HOOK DEVELOPMENT LENGTH (Ldh) SHALL BE MODIFIED BY THE FOLLOWING FACTORS WHEN THEY OCCUR, FACTORS ARE ADDITIVE:
 - A. EPOXY-COATED REINFORCEMENT: 1.2
 - B. LIGHTWEIGHT CONCRETE: 0.75

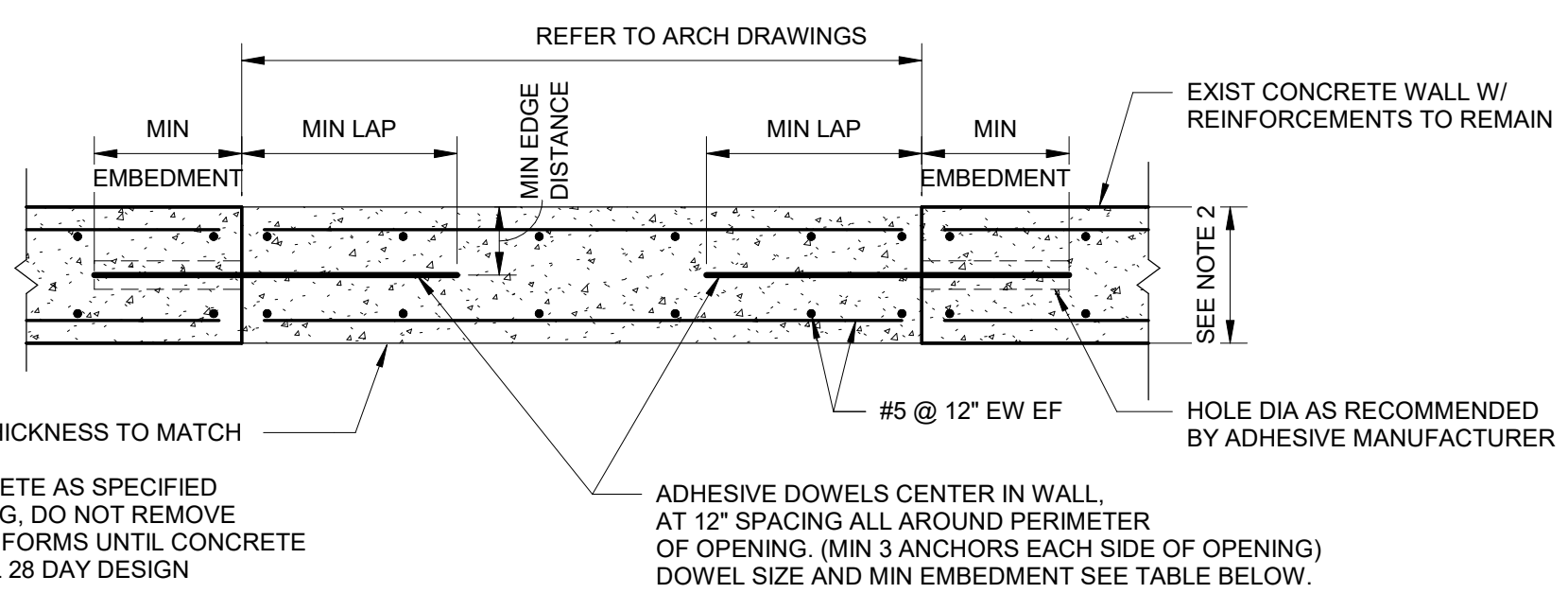
4 TYPICAL TENSION DEVELOPMENT HOOK LENGTHS
3/4" = 1'-0"

'Ld' TENSION DEVELOPMENT LENGTH FOR SLAB AND WALL REBAR (GRADE 60 UNCOATED BARS - NORMAL WEIGHT CONCRETE)

BAR SIZE	fc=3000 psi		fc=4000 psi		fc=5000 psi		fc=6000 psi		fc=7000 psi		fc=8000 psi	
	TOP	BOT	TOP	BOT	TOP	BOT	TOP	BOT	TOP	BOT	TOP	BOT
#3	1'-1"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"
#4	1'-10"	1'-5"	1'-7"	1'-3"	1'-5"	1'-1"	1'-4"	1'-0"	1'-2"	1'-0"	1'-0"	1'-0"
#5	2'-8"	2'-1"	2'-4"	1'-9"	2'-1"	1'-7"	1'-11"	1'-6"	1'-8"	1'-8"	1'-8"	1'-3"
#6	3'-7"	2'-9"	3'-1"	2'-5"	2'-10"	2'-2"	2'-7"	2'-0"	2'-3"	1'-9"	1'-9"	1'-9"
#7	5'-9"	4'-5"	5'-0"	3'-10"	4'-6"	3'-6"	4'-1"	3'-2"	3'-7"	2'-9"	2'-9"	2'-9"
#8	7'-2"	5'-6"	6'-2"	4'-9"	5'-7"	4'-3"	5'-1"	3'-11"	4'-5"	3'-5"	3'-5"	3'-5"
#9	8'-7"	6'-8"	7'-6"	5'-9"	6'-8"	5'-2"	6'-1"	4'-9"	5'-4"	4'-1"	4'-1"	4'-1"
#10	10'-2"	7'-10"	8'-10"	6'-9"	7'-11"	6'-1"	7'-2"	5'-7"	6'-3"	4'-10"	4'-10"	4'-10"
#11	11'-9"	9'-1"	10'-2"	7'-10"	9'-1"	7'-0"	8'-4"	6'-5"	7'-3"	5'-7"	5'-7"	5'-7"

- NOTES:
- TOP BARS ARE HORIZONTAL OR SLOPING REBAR WHERE MORE THAN 12 IN OF FRESH CONCRETE IS CAST BELOW THE BARS AT ANY POINT ALONG THE DEVELOPMENT LENGTH.
 - FOR LAP SPLICES, MULTIPLY THE TABULATED VALUES BY 1.3.
 - FOR LIGHT-WEIGHT CONCRETE MULTIPLY THE TABULATED VALUES BY 1.34.
 - FOR EPOXY-COATED BARS, MULTIPLY THE TABULATED VALUES BY 1.5.

5 TYPICAL TENSION DEVELOPMENT LENGTHS SLAB AND WALL
3/4" = 1'-0"



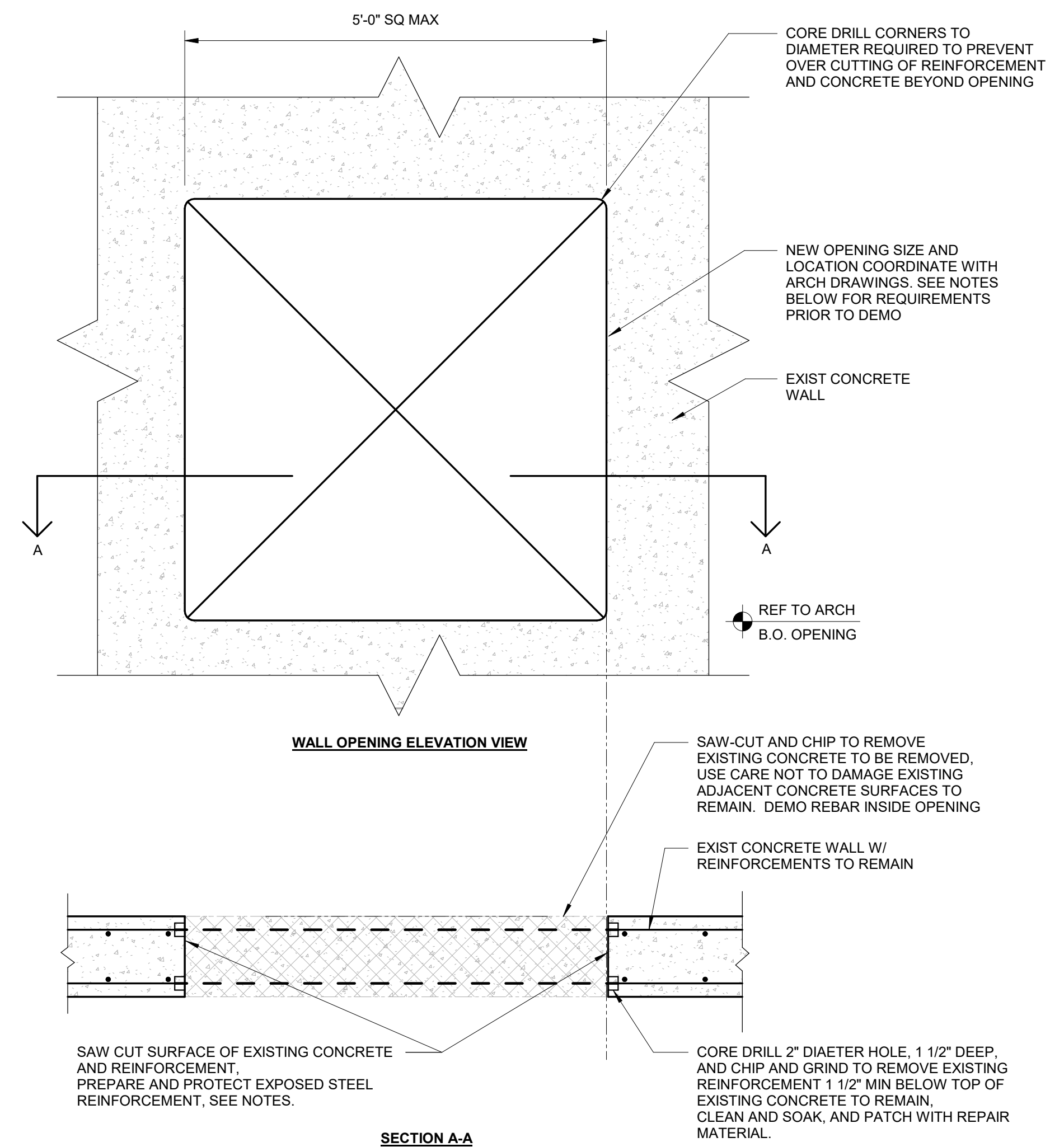
NEW WALL THICKNESS TO MATCH EXISTING. CURE CONCRETE AS SPECIFIED FOR PATCHING. DO NOT REMOVE SUPPORTING FORMS UNTIL CONCRETE ATTAINS FULL 28 DAY DESIGN STRENGTH.

ADHESIVE DOWELS CENTER IN WALL AT 12" SPACING ALL AROUND PERIMETER OF OPENING. (MIN 3 ANCHORS EACH SIDE OF OPENING) DOWEL SIZE AND MIN EMBEDMENT SEE TABLE BELOW.

DOWEL SIZE	MINIMUM DEGE DISTANCE	MINIMUM EMBEDMENT
#3	2 1/2"	8"
#4	3 1/2"	11"
#5	4"	13"
#6	5"	16"
#7	6"	20"
#8	7"	24"

- NOTES:
- FOLLOW ADHESIVE MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION.
 - USE MINIMUM EMBEDMENTS SHOWN, EXCEPT USE MANUFACTURER'S MINIMUM RECOMMENDED EMBEDMENT IF GREATER.
 - ROUGHEN SURFACE OF EXISTING WALL OPENING TO FULL 1/4" MINIMUM AMPLITUDE. CLEAN AND SOAK PRIOR TO POURING CONCRETE.

6 TYPICAL EXIST CONCRETE WALL OPENING REPAIR
3/4" = 1'-0"



- NOTES:
- CONFIRM OPENING DIMENSIONS WITH MANUFACTURER BEFORE REMOVING CONCRETE.
 - USE NON-DESTRUCTIVE METHODS TO LOCATE EXISTING VERTICAL REBAR IN WALL SUCH AS X-RAY, GPR, OR OTHER DEVICES. PREPARE SKETCH RFI FOR EOR APPROVAL OF FINAL LOCATIONS OF OPENINGS AS THEY MAY SLIGHTLY SHIFT TO MINIMIZE DAMAGED REBAR.
 - FILL CORE-DRILLED POCKETS AT HORIZONTAL REBAR AS WELL AS ANY OVER REMOVED AREAS WITH PATCHING MORTAR SUITABLE FOR SIZE AND DEPTHS OF REPAIRS. APPLY BONDING AGENT PRIOR TO APPLICATION OF MORTAR.

7 TYPICAL CONCRETE WALL DEMOLITION
3/4" = 1'-0"

NO.	DATE	DSGN	DR	CHK	BY	APVD
					B. ROWAN	B. ROWAN
					B. ROWAN	B. ROWAN



Project Title: **FILTER BUILDING ROOF RETROFIT & SITE IMPROVEMENTS**
Drawing Title: **TYPICAL CONCRETE DETAILS**

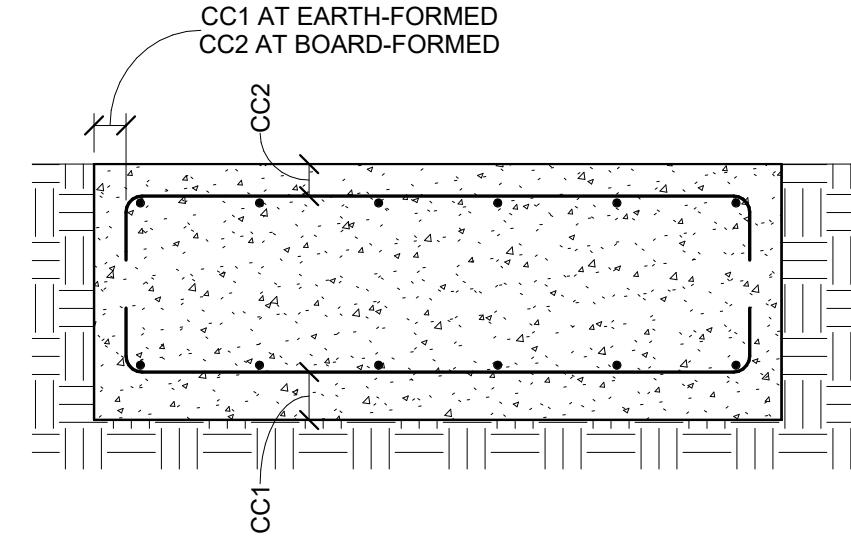
Date: 07/08/2022
Proj. No.: D3237903
Drawing No.:

FL-S-501

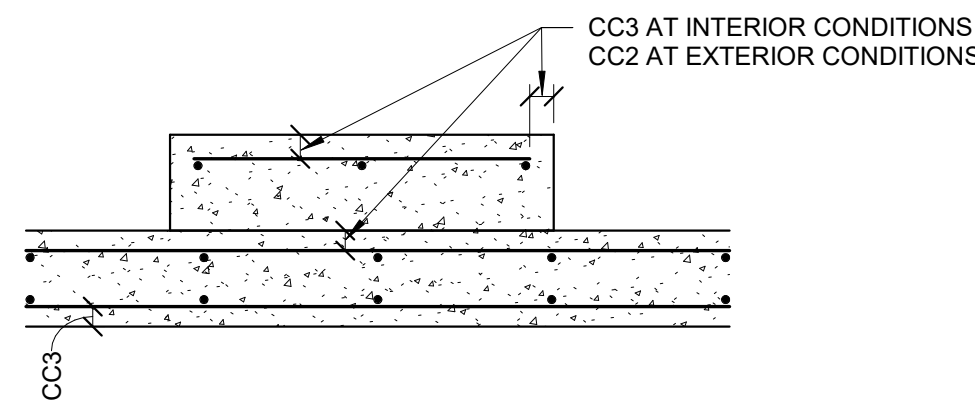
COVER TYPE	BAR SIZE	MIN CLEAR COVER
CC1	ALL	3"
CC2	≥ #6	2"
	≤ #5	1 1/2"
CC3	≥ #14	1 1/2"
	≤ #11	3/4"
CC4	ALL	1 1/2"

NOTES:

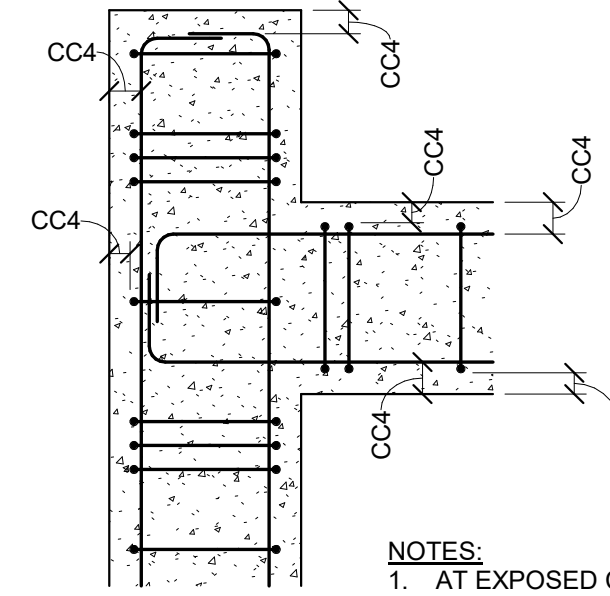
- CLEAR COVERS APPLY TO CAST-IN-PLACE STRUCTURES WITH C0 OR C1 EXPOSURE CATEGORIES ONLY. REFER TO ACI 318 FOR ADDITIONAL GUIDANCE ON OTHER TYPES OF CONCRETE STRUCTURES. FOR STRUCTURES WITH C2 EXPOSURE, MINIMUM COVER SHALL BE AS FOLLOWS:
 - 2" FOR WALLS AND SLABS OF ALL BAR SIZES
 - 2 1/2" FOR ALL OTHER MEMBERS OF ALL BAR SIZES EXCEPT AS NOTED IN 'C' BELOW.
 - 3" FOR CONCRETE CAST AGAINST GRADE AND IN PERMANENT CONTACT WITH THE GROUND
- CLEAR COVER APPLIES TO THE OUTERMOST REINFORCING ELEMENT
- DIAGRAMS ARE PROVIDED AS SCHEMATICS TO ESTABLISH MINIMUM CLEAR COVER REQUIREMENTS. REFER TO ADDITIONAL INFORMATION THROUGHOUT THE CONTRACT DOCUMENTS FOR GUIDANCE ON HIERARCHY, PLACEMENT, AND OTHER RELEVANT INFORMATION.
- CLEAR COVERS LISTED SHALL BE MEASURED FROM THE EXTREME FIBER OF THE REINFORCEMENT TO THE INTERIOR-MOST FACE OF CONCRETE (ACCOUNTING FOR ANY REVEALS, RECESSES, FORMLINER MOLDS, OR OTHER RUSTIFICATIONS).
 - WHERE BUNDLED BARS EXIST, COVER MUST BE INCREASED TO THE SMALLER OF:
 - THE EQUIVALENT DIAMETER OF THE BUNDLED BARS
 - 2" FOR CONCRETE NOT IN PERMANENT CONTACT WITH THE GROUND
 - 3" FOR CONCRETE CAST AGAINST GRADE AND IN PERMANENT CONTACT WITH THE GROUND
 - 3" FOR CONCRETE CAST AGAINST GRADE AND IN PERMANENT CONTACT WITH THE GROUND
- SIDE COVER FOR FOUNDATION ELEMENTS WITH A STEEL CASING SHALL BE MEASURED FROM THE INSIDE FACE OF CASING.



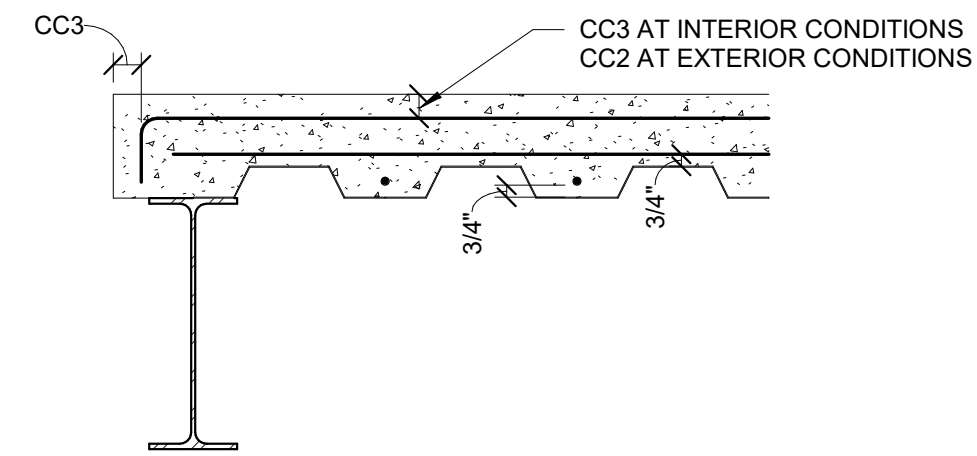
ALL FOUNDATION ELEMENTS AND OTHER ELEMENTS IN CONTACT WITH GRADE



ELEVATED SLABS AND TOPPING SLABS

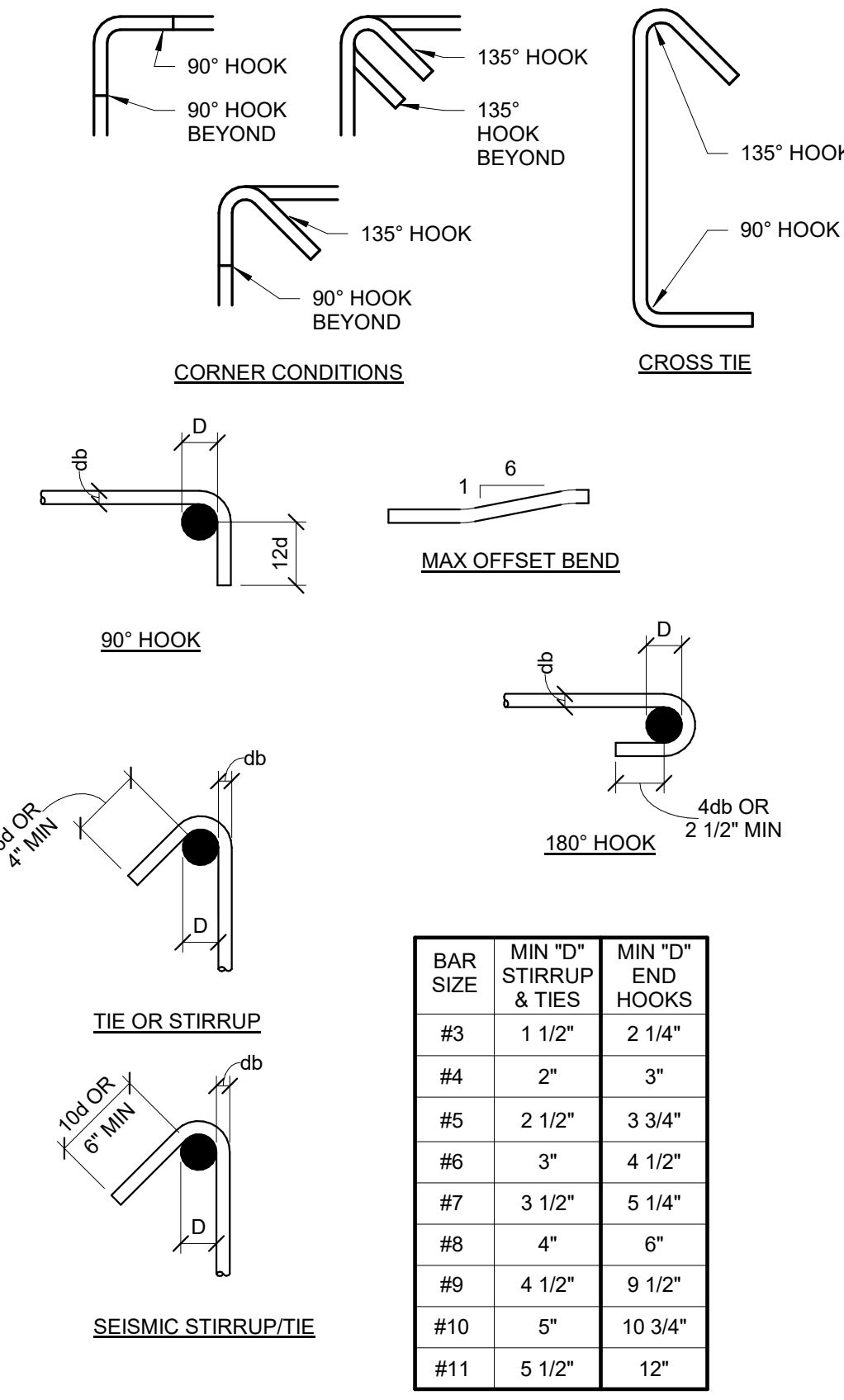


COLUMNS AND BEAMS



SLAB ON METAL DECK

1 TYPICAL CONCRETE COVER
1" = 1'-0"



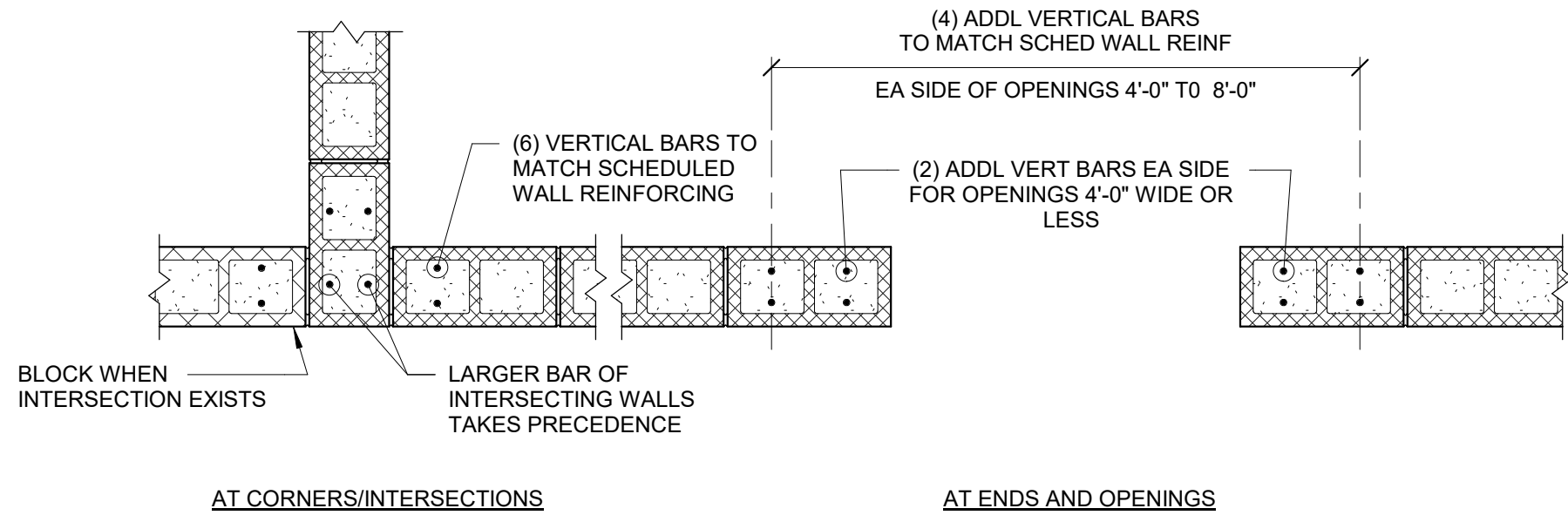
- NOTES:**
- BENDS SHALL BE MADE COLD.
 - #14 AND #18 BARS SHALL BE BEND-TESTED AND APPROVED PRIOR TO BENDING.
 - FOR 'D' ETC SEE CRSI HANDBOOK GOVERNING EDITION.

2 TYPICAL BAR BEND REQUIREMENTS
1" = 1'-0"

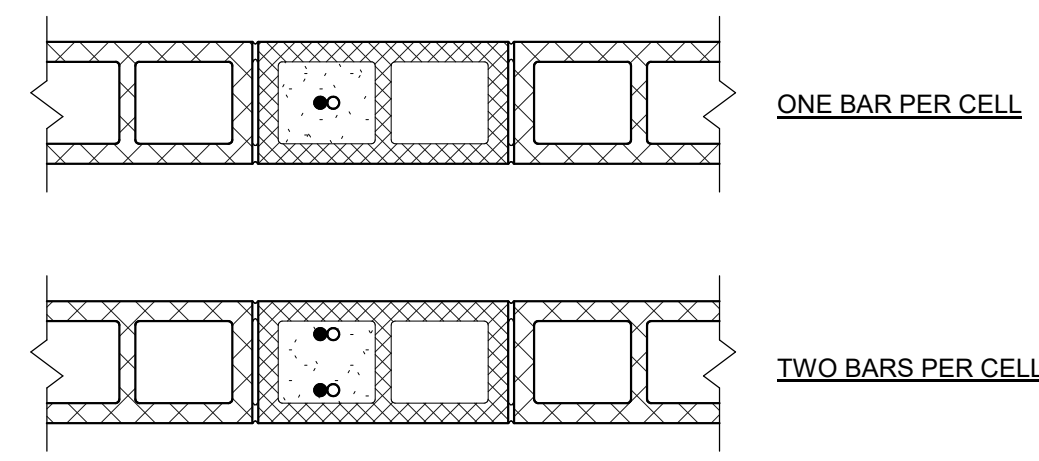
NO.	DATE	DR	W. LYU	CHK	B. ROWAN	APVD	B. ROWAN

Project Title:
FILTER BUILDING ROOF RETROFIT & SITE IMPROVEMENTS
Drawing Title:
TYPICAL CONCRETE DETAILS

Date: 07/08/2022
Proj. No.: D3237903
Drawing No.:



NOTES:
1. WHERE ONLY SINGLE BAR PER CELL EXISTS, BARS SHALL BE PLACED AT CENTER OF CELL UNLESS NOTED OTHERWISE. MAINTAIN SAME INTENT ON PLACEMENT FROM DETAIL ABOVE.

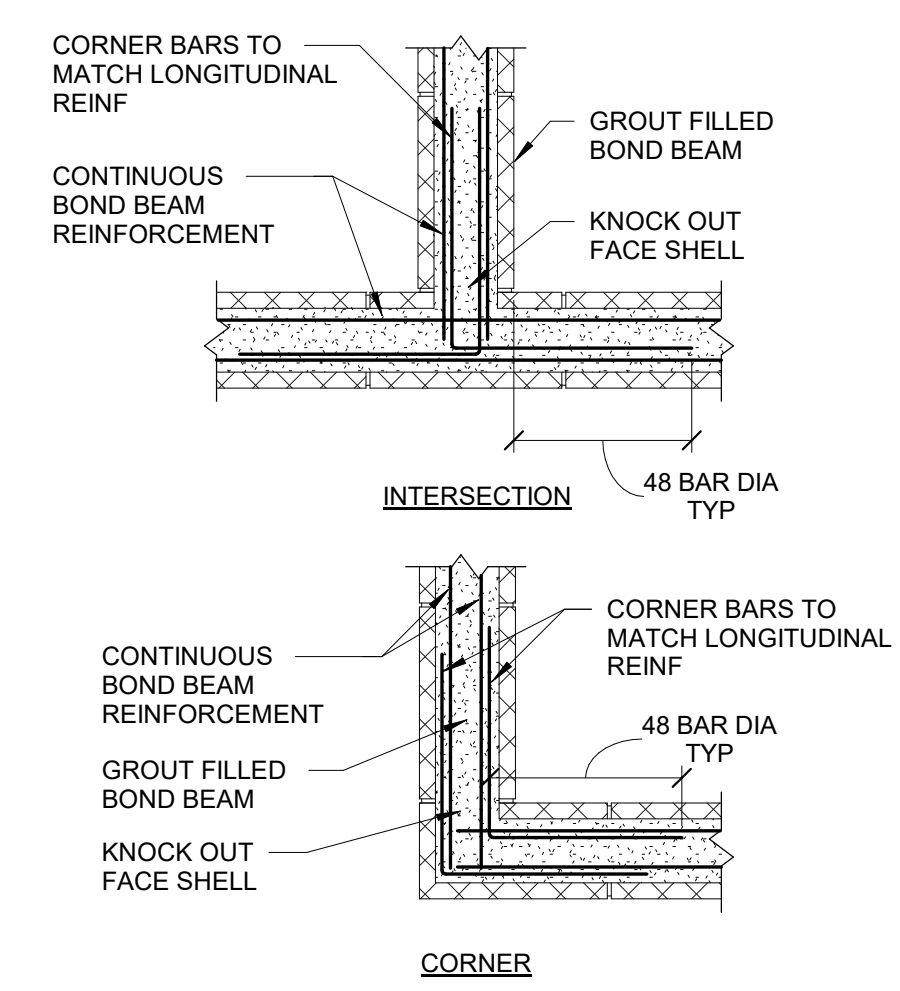


NOTES:
1. WHERE SPLICES OCCUR, BARS SHALL BE PLACED IN CONTACT AS SHOWN. WHERE SPLICES DO NOT OCCUR, CENTER BAR WITHIN CELL.
2. BAR POSITIONERS SHALL BE USED TO SECURE BARS WITHIN CELLS AND ENSURE THAT REINFORCEMENT DOES NOT MOVE DURING GROUTING OPERATIONS.

BAR SIZE	4" CMU		6" CMU		8" CMU		10" CMU		12" CMU	
	1 BAR/CELL	2 BAR/CELL	1 BAR/CELL	2 BAR/CELL	1 BAR/CELL	2 BAR/CELL	1 BAR/CELL	2 BAR/CELL	1 BAR/CELL	2 BAR/CELL
#3	19	16	19	16	17	16	17	16	17	17
#4	34	25	34	21	29	21	29	21	29	29
#5	NP	40	45	27	45	26	45	26	45	45
#6	NP	NP	NP	51	54	40	54	40	54	54
#7	NP	NP	NP	63	63	52	63	46	63	63
#8	NP	NP	NP	72	NP	72	72	63	72	72
#9	NP	NP	NP	NP	NP	NP	NP	81	81	81

NOTES:
1. ALL LENGTHS ARE LISTED IN INCHES.
2. DEVELOPMENT AND SPLICES OF #10 AND #11 BARS ARE NOT PERMITTED WITHIN MASONRY.
3. INCREASE TABULATED VALUES BY 50% FOR EPOXY-COATED REINFORCEMENT.
4. WHEN SPLICING BARS OF DIFFERING SIZES, USE THE LENGTH ASSOCIATED WITH THE SMALLER BAR.

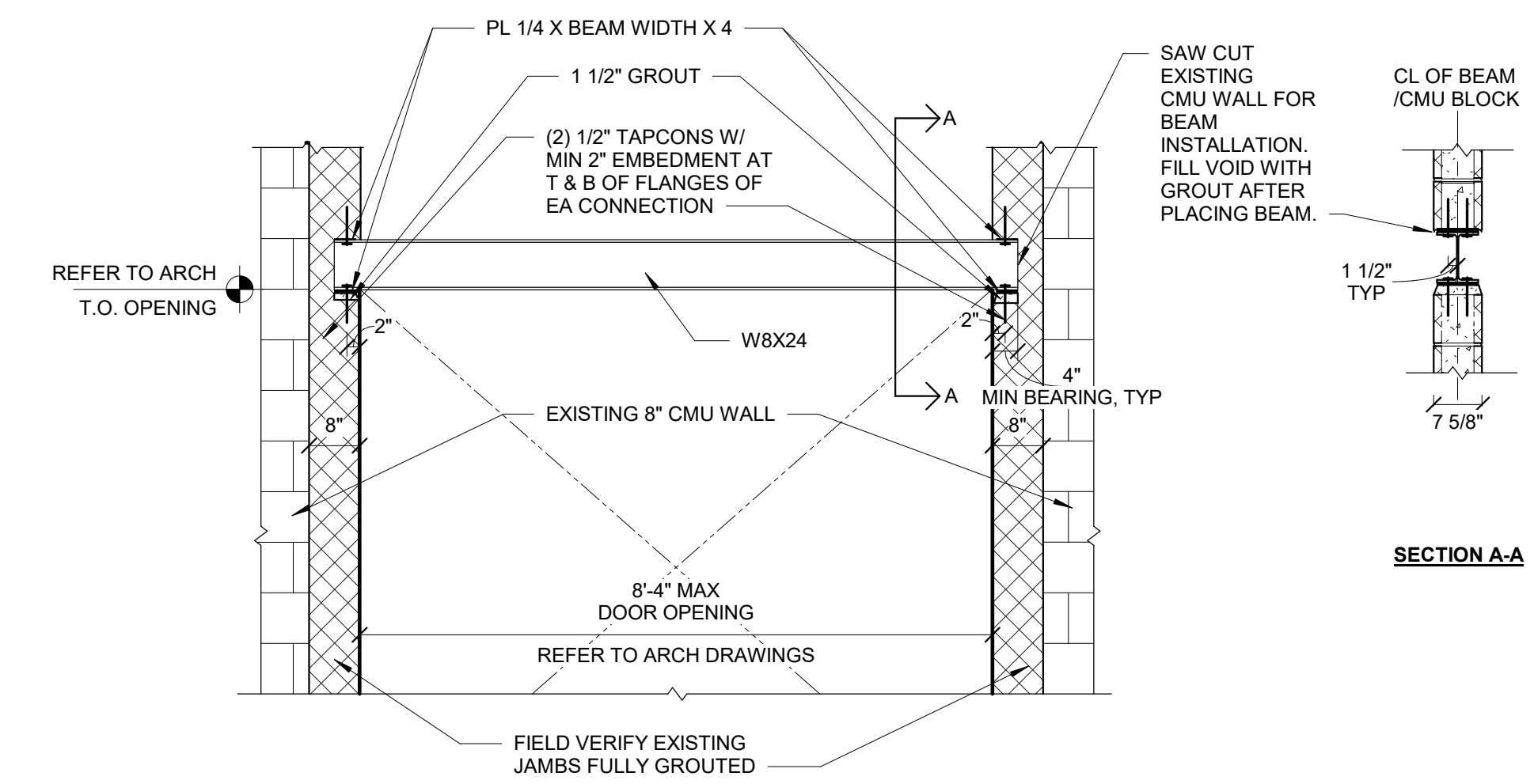
1 TYPICAL REINFORCEMENT PLACEMENT AT CORNER/INTERSECTION
3/4" = 1'-0"



NOTES:
1. WHERE SINGLE LAYER OF REINFORCEMENT EXISTS, PROVIDE SINGLE CORNER BAR AT EACH CONDITION TO TIE INTERSECTING WALLS TOGETHER.
2. VERTICAL REINFORCEMENT NOT SHOWN FOR CLARITY.

4 TYPICAL BOND BEAM REINFORCEMENT AT CORNER/INTERSECTION
3/4" = 1'-0"

2 TYPICAL CMU VERTICAL BAR PLACEMENT
1" = 1'-0"



5 TYPICAL BEAM SEAT AT DOOR (AT ACCESSORY BUILDING)
1/2" = 1'-0"

3 TYPICAL CMU VERTICAL BAR TENSION DEVELOPMENT LENGTHS
1" = 1'-0"

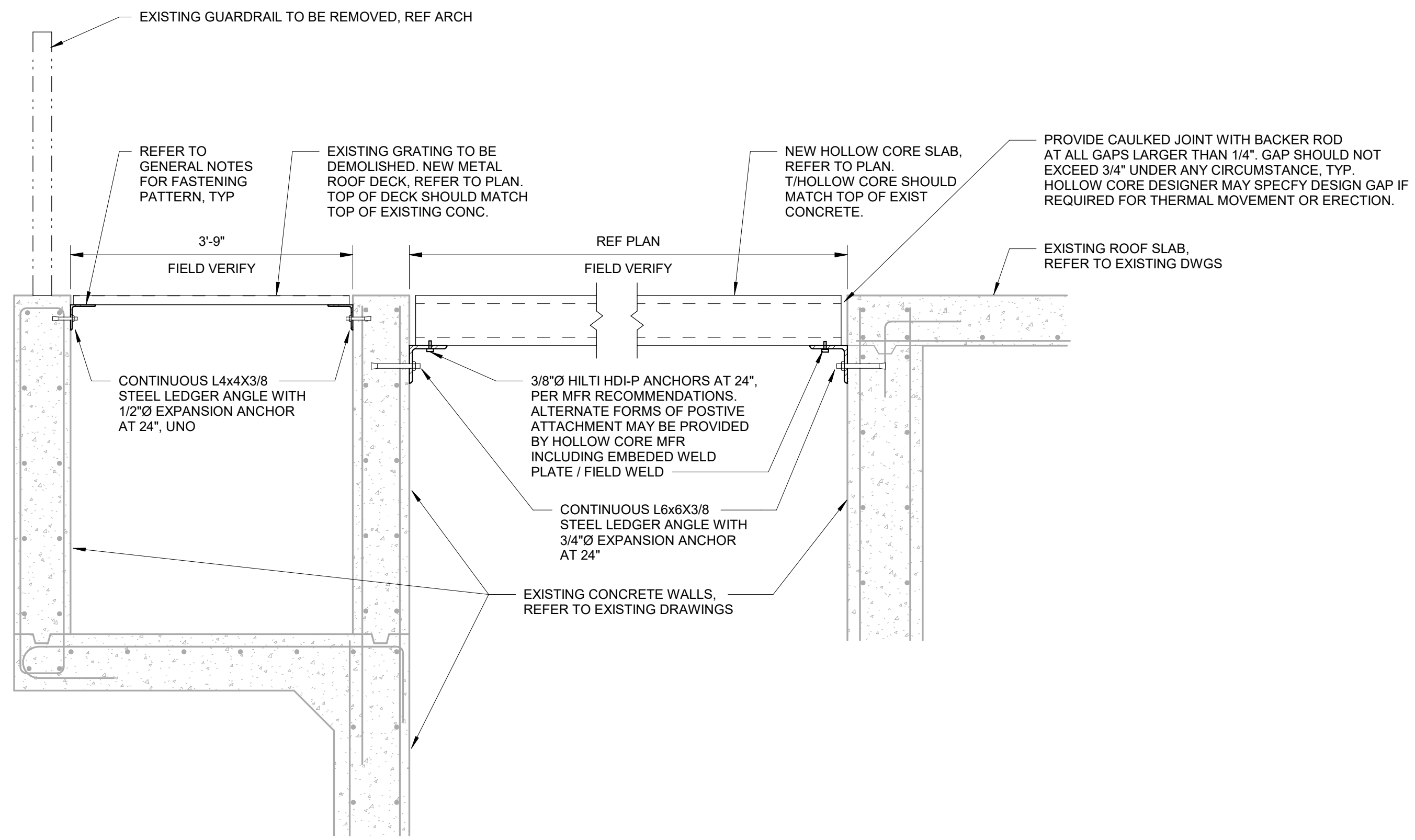
NO.	DATE	DR	CHK	BY
				AP/D
				B. ROWAN
				AP/D
				B. ROWAN
				W. LYU
				W. LYU
				DSGN
				DR
				W. LYU
				CHK
				B. ROWAN
				AP/D
				B. ROWAN



Project Title:
FILTER BUILDING ROOF RETROFIT & SITE IMPROVEMENTS
Drawing Title:
TYPICAL MASONRY DETAILS

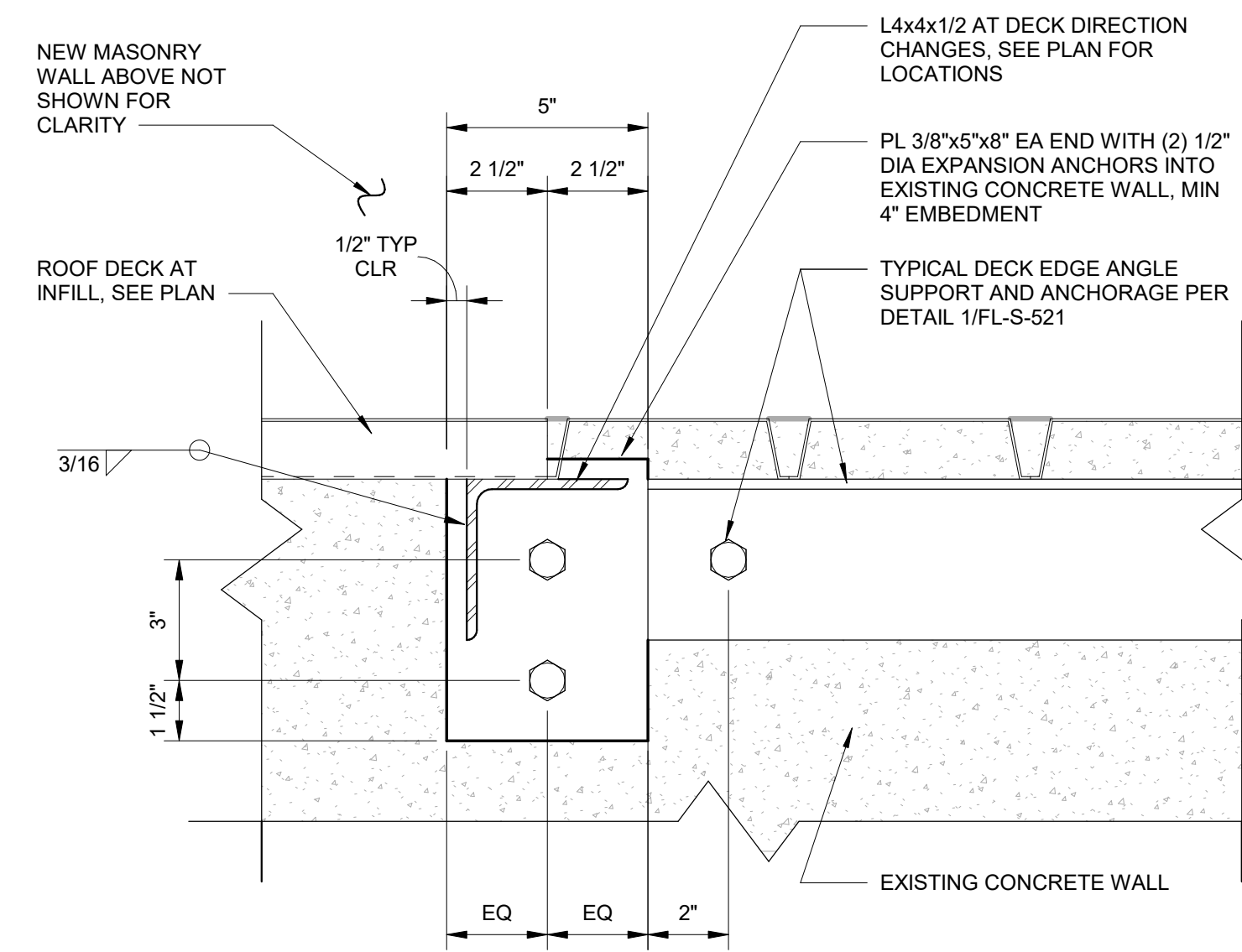
Date: 07/08/2022
Proj. No.: D3237903
Drawing No.: FL-S-511

100% CD SET



- NOTES:**
1. FIELD VERIFY ALL EXISTING DIMENSIONS
 2. COORDINATE INSTALLATION LOCATION WITH EXISTING REINFORCEMENT TO ENSURE REINFORCEMENT IS NOT DAMAGED. DRILL PILOT HOLES OR USE OTHER APPROVED METHODS TO LOCATE REINFORCEMENT PRIOR TO DRILLING AND INSTALLING ANCHORS.

1 METAL DECK AND HOLLOWCORE SUPPORT AT ROOF
3/4" = 1'-0"



2 ANGLE SUPPORT AT DECK DIRECTION CHANGE
3" = 1'-0"

NO.	DATE	DR	CHK	APVD
				B. ROWAN
				B. ROWAN
				J. TULLER
				W. LYU



Project Title:
FILTER BUILDING ROOF RETROFIT & SITE IMPROVEMENTS
Drawing Title:
CONCRETE SECTIONS AND DETAILS

Date: 07/08/2022
Proj. No.: D3237903
Drawing No.:

FL-S-521

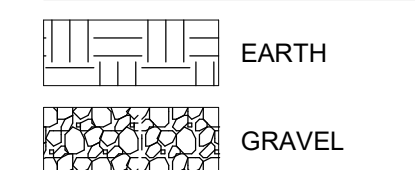
100% CD SET

ARCHITECTURAL ABBREVIATIONS

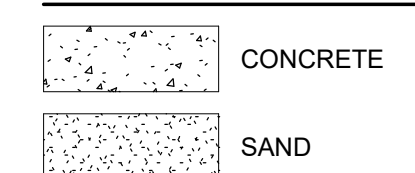
@	AT	CLF	CHAIN LINK FENCE	ELEC	ELECTRIC	GPM	GALLONS PER MINUTE	LP	LOW POINT	OPP	OPPOSITE	RS - (#)	REDUCER STRIP - TYPE	TS	TUBE STEEL
°	DEGREE	CLG	CEILING	ELEV	ELEVATION OR ELEVATOR	GR	GRILLE	LSS	LIFE SAFETY SYSTEMS	OSHA	OCCUPATIONAL SAFETY AND HEALTH ASSOCIATION	S	STAIN	TYP	TYPICAL
°	DIAMETER	CLR	CLEAR	EM(#)	ENTRANCE MAT - TYPE	GT-(#)	GROUT - TYPE	MAQ	MAXIMUM ALLOWABLE QUANTITIES	PC-(#)	POLYMER COMPOSITE	SAC-(#)	SUSPENDED ACOUSTICAL CEILING - TYPE	UA	UNASSIGNED
°	CENTERLINE	CMU	CONCRETE MASONRY UNIT	EMERG	EMERGENCY	GYP	GYPSUM	MAS	MASONRY	PCF	PER CUBIC FOOT	SAT	SUSPENDED ACOUSTICAL TILE	UL	UNDERWRITERS LABORATORY
AC-(#)	ACOUSTICAL TILE - TYPE	COL	COLUMN	EOD	EDGE OF DECK	HB	HOSE BIBB	MATL	MATERIAL	PKG	PACKAGE	SCR	SEAT COVER DISPENSER	UMC	UNIFORM MECHANICAL CODE
ACP	ALUMINUM CHECKER PLATE	CONC	CONCRETE	EQ	EQUAL	HC	HOLLOW CORE	MAX	MAXIMUM	PL	PLATE	SD	SOAP DISPENSER	UNC	UNLESS NOTED OTHERWISE
ADA	AMERICANS WITH DISABILITIES ACT	CONF	CONFERENCE	EQUIP	EQUIPMENT	HDBD	HARDBOARD	MB-(#)	MARKER BOARD - TYPE	PLM - (#)	PLASTIC LAMINATE - TYPE	SECT	SECTION	UPC	UNIFORM PLUMBING CODE
AF-(#)	ACCESS FLOOR - TYPE	CONT	CONTINUOUS	EXP	EXPOSED, EXPANSION	HDWR	HARDWARE	MBR	MEMBRANE	PLBG	PLUMBING	SF	SQUARE FEET	V	VENT
AF	ABOVE FINISH FLOOR	COORD	COORDINATE	EXT	EXTERIOR	HIM	HOLLOW METAL	MECH	MECHANICAL	PLYWD	PLYWOOD	S/H	SEALER / HARDENER	VERT	VERTICAL
ALUM	ALUMINUM	CPT-(#)	CARPET - TYPE	FACT	FACTORY	HORIZ	HORIZONTAL	MEZZ	MEZZANINE	PNL	PANEL	SHT	SHEET	VEST	VESTIBULE
AMHS	AUTOMATED MATERIAL HANDLING SYSTEM	CR	CARD READER	FE-(#)	FIRE EXTINGUISHER - TYPE	HP	HIGH POINT	MFR	MANUFACTURER	PR	PAIR	SIB	STRUCTURAL ISOLATION BREAK	VIB	VIBRATION
AM&M	ALTERNATE MATERIALS AND METHODS	CR-(#)	CRASH RAIL - TYPE	FF	FINISH FLOOR	HPC	HIGH PERFORMANCE COATING	MIN	MINIMUM; MINUTE	PREFAB	PREFABRICATED	SIM	SIMILAR	VP	VENT PIPE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	CRC	CHEMICAL RESISTANT COATING	FF&E	FURNITURE, FIXTURES AND EQUIPMENT	HR	HOUR	MIR	MIRROR	PROC	PROCESS	SIM	SIMILAR	VR	VAPOR RETARDER
APPROX	APPROXIMATE	CS	CONCRETE SEALER	FFU	FAN FILTER UNIT	HS	HIGH STRENGTH	MISC	MISCELLANEOUS	PSI	POUNDS PER SQUARE INCH	S-INSUL	STEEL INSULATED	W/	WITH
ARCH	ARCHITECTURAL	CTR	CENTER	FG	FINISH GRADE	HT	HEIGHT	MO	MASONRY OPENING	P / T	PASS THROUGH	/ASMM	CONTRACTORS NATIONAL ASSOCIATION / ARCHITECTURAL SHEET METAL MANUAL	WB-(#)	WHITE BOARD - TYPE
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS	CWS-(#)	CLEAN ROOM WALL SYSTEM - TYPE	FIN	FINISH	IBC	INTERNATIONAL BUILDING CODE	MOU	MEMORANDUM OF UNDERSTANDING	PT - (#)	PAINT SYSTEM - COLOR	SOW	SCOPE OF WORK	WC-(#)	WALLCOVERING - TYPE
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS	DAC	INTERBAY AMHS	FLG	FLASHING	ICR	INTERNATIONAL CONFERENCE ROOM CODE	MS	MOP SINK	PT	PRESSURE TREATED	SS	STAINLESS STEEL	WD	WOOD
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	DAT	DATUM	FLR	FLOOR	IECC	INTERNATIONAL ENERGY CONSERVATION CODE	MT	MARKET TRAY	PTD	PAPER TOWEL DISPENSER	SS	STAINLESS STEEL	WF-(#)	WINDOW FILM - TYPE
AWT	ACOUSTICAL WALL TREATMENT	DF	DRINKING FOUNTAIN	FM	FACTORY MUTUAL	IFC	INTERNATIONAL FIRE CODE	NA	NOT APPLICABLE	R	RISER	STC	SOUND TRANSMISSION COEFFICIENT	WM	WIRE MESH
B/	BOTTOM OF	DIA	DIAMETER	FMS	FACILITIES MANAGEMENT SYSTEM	IGU	INSULATED GLASS UNIT	ND	NAPKIN DISPOSAL	RA	RETURN AIR	STD	STANDARD	W/O	WITHOUT
BD	BOARD	DN	DOWN	FO	FACE OF	IMC	INTERNATIONAL MECHANICAL CODE	NEC	NATIONAL ELECTRICAL CODE	RAG	RETURN AIR GRILLE	STL	STEEL	WP-(#)	DEMOUNTABLE PARTITION - TYPE
BLDG	BUILDING	DR	DOOR	FOC	FACE OF CONCRETE	IN	INCH/INCHES	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION	RB-(#)	RESILIENT BASE - TYPE	STRUCT	STRUCTURAL	WT	WEIGHT
BLKG	BLOCKING	DRB	DESIGN REVISION BULLETIN	FOF	FACE OF FINISH	INSUL	INSULATION	NIC	NOT IN CONTRACT	RD	ROOF DRAIN	SUSP	SUSPENDED	WWP	WOVEN WIRE PARTITION
BM	BEAM	DS	DOWNSPOUT	FOM	FACE OF MASONRY	INT	INTERIOR	NOA	NOTICE OF ACCEPTANCE (FL-MIAMI DADE)	REF	REFERENCE	TBD	TO BE DETERMINED	WWT	WASTE WATER TREATMENT
BOS	BOTTOM OF STEEL	DTL	DETAIL	FOP	FACE OF PANEL	IPC	INTERNATIONAL PLUMBING CODE	NR	NOT FIRE RATED	REQD	REQUIRED	TEMP	TEMPERED		
CF	CUBIC FEET	DWG	DRAWING	FOS	FACE OF STUDS / STEEL	IWUIC	INTERNATIONAL WILDLANDS URBAN INTERFACE CODE	NTS	NOT TO SCALE	RF - (#)	RESILIENT FLOORING - TYPE	TEMP.	TEMPORARY		
CFM	CUBIC FEET PER MINUTE	DW	DUMBWAITER	FOUP	FRONT OPENING UNIFIED POD	JT	JOINT	OC	ON CENTER	RM	ROOM	THR	THRESHOLD		
CG-(#)	CORNER GUARD - TYPE	DWP	DEMOUNTABLE WALL PARTITION	FRP-(#)	FIBERGLASS REINFORCED PLASTIC - TYPE	KEC	KITCHEN EQUIPMENT CONSULTANT	OCFI	OWNER FURNISHED, CONTRACTOR INSTALLED	RO	ROUGH OPENING	ROC	REMOTE OPERATIONS CENTER		
CHK	CHECKERED	(E)	EXISTING	FT	FOOT/FEET	GL-(#)	GLASS - TYPE	OHC	OVERHEAD COILING DOOR	RODI	REMOTE OPERATIONS DE-IONIZED WATER	ROM	ROUGH ORDER OF MAGNITUDE		
CI	CODE INTERPRETATION	EA	EACH	FWP-(#)	FABRIC WRAPPED PANEL - TYPE	LAM	LAMINATED	OFCI	OWNER FURNISHED, OWNER INSTALLED	RRD	RAPID ROLL-UP DOOR	ROS	ROUGH ORDER OF MAGNITUDE		
CIP	CAST-IN-PLACE	EJ-(#)	EXPANSION JOINT - TYPE	GA	GAUGE	LB	LOUVERED BLINDS / POUND	OHC	OVERHEAD COILING DOOR			TR	TREAD		
CJ	CONTROL JOINT			GALV	GALVANIZED										
				GB	GRAB BAR										
				GB	GYPSUM BOARD										
				GL-(#)	GLASS - TYPE										

SYMBOLS & LEGENDS

EARTHWORKS



CONCRETE



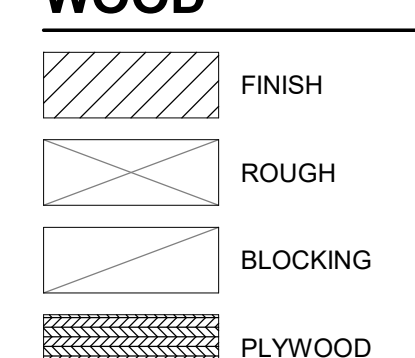
MASONRY



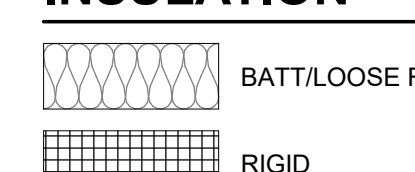
METAL



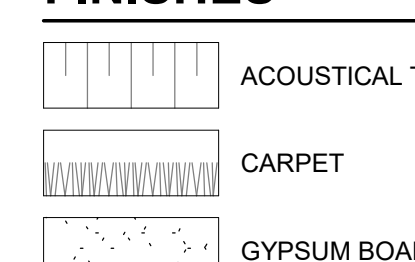
WOOD



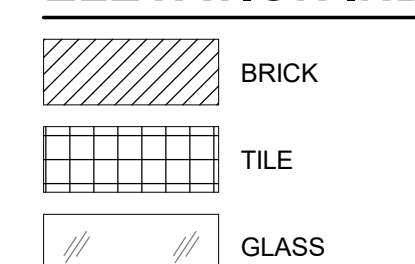
INSULATION



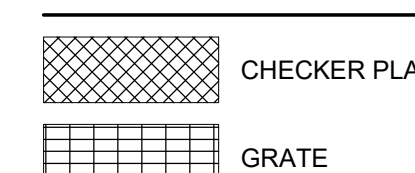
FINISHES



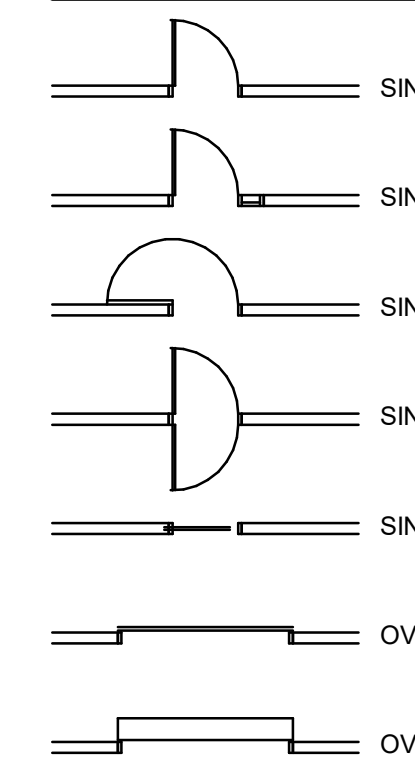
ELEVATION INDICATIONS



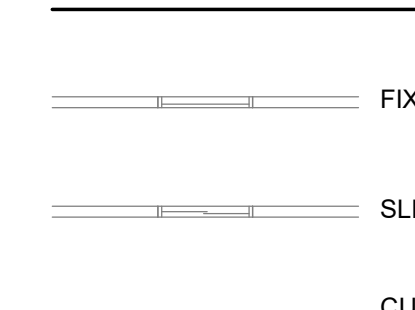
PLAN INDICATIONS



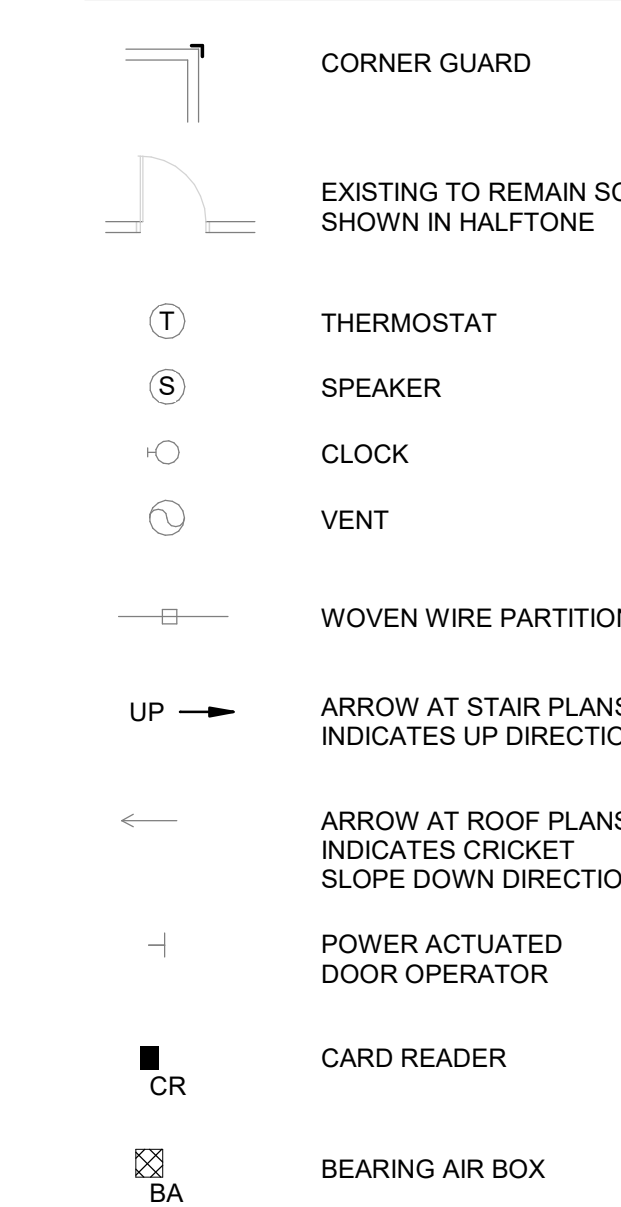
DOOR TYPES



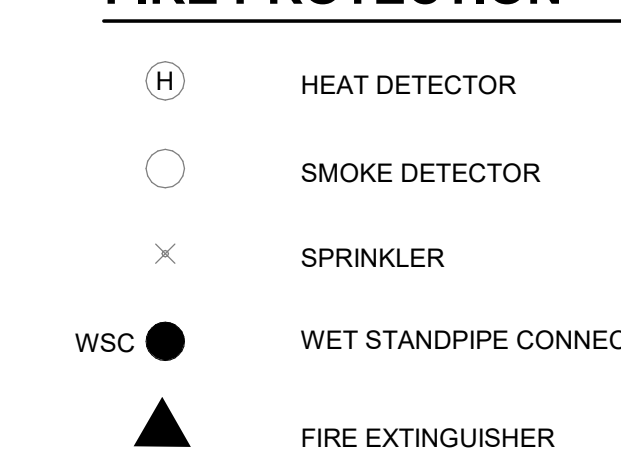
WINDOW TYPES



MISC. ARCHITECTURAL



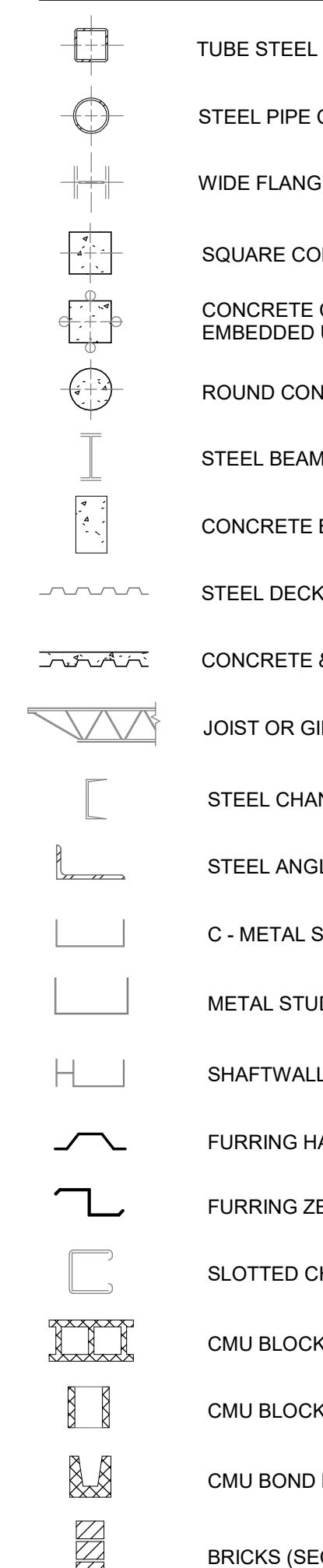
FIRE PROTECTION



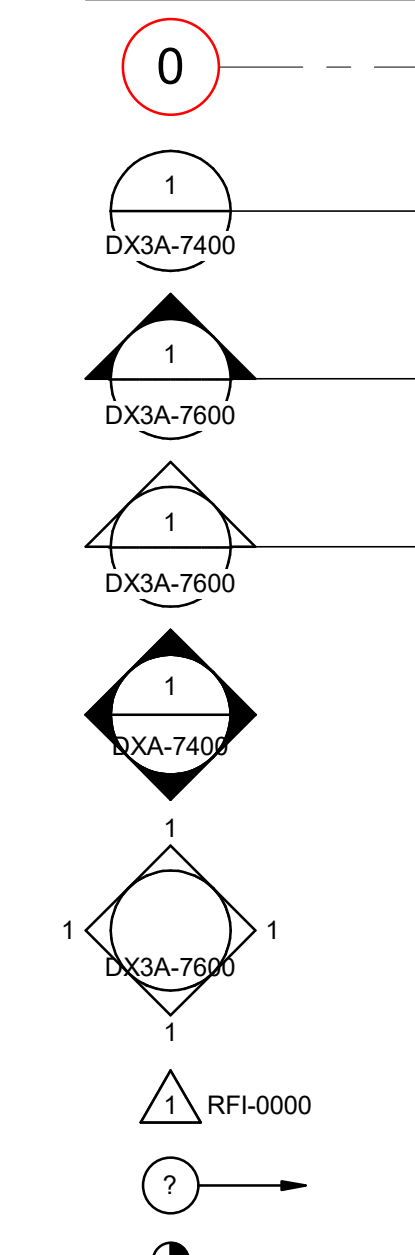
POWER AND COMMUNICATIONS



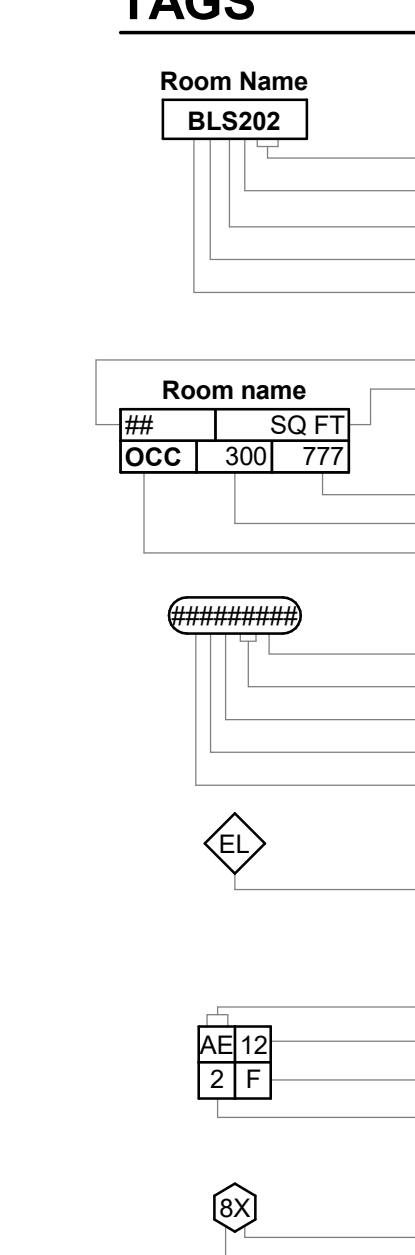
STRUCTURAL



SYMBOLS



TAGS



GENERAL NOTES

- ALL WORK IS TO BE DONE IN ACCORDANCE WITH THE 2020 FLORIDA BUILDING CODE (7TH EDITION) INCLUDING ALL AMENDMENTS, ALL REGULATORY LOCAL AND GOVERNMENTAL CODES.
- SUB-SUB-CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AND SHALL NOTIFY THE ARCHITECT IF ANY DISCREPANCIES ARE DISCOVERED BEFORE PROCEEDING WITH THE WORK.
- SUB-SUB-CONTRACTOR TO ACQUIRE ALL REQUIRED PERMITS FOR THE CONSTRUCTION OF THE PROJECT. SUB-CONTRACTOR SHALL PAY ALL APPLICABLE TAX, SALES TAX AND PERMIT FEES.
- ALL WORK DONE UNDER THE SUPERVISION OF THE SUB-SUB-CONTRACTOR SHALL BE DONE IN A NEAT AND WORKMAN-LIKE MANNER AND IN ACCORDANCE WITH ALL GOVERNING AGENCIES, RULES AND REGULATIONS HAVING JURISDICTION.
- SUB-SUB-CONTRACTOR SHALL PROVIDE ALL SUPPLEMENTARY MATERIALS REQUIRED TO INSTALL, SECURE SUPPORT, BRACE AND SHORE ALL BUILDING COMPONENTS.
- PRIOR TO COMMENCING WORK, THE SUB-SUB-CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EQUIPMENT AND UTILITIES TO BE REMOVED. REMOVALS SHALL BE COORDINATED WITH THE OWNER AND ALL BUILDING AUTHORITIES HAVING JURISDICTION.
- SUB-SUB-CONTRACTOR SHALL PROVIDE THE ARCHITECT WITH RED-LINED AS BUILT DRAWINGS FOR ANY AND ALL FIELD CHANGES AND/OR ADDITIONS TO THE WORK INCLUDED IN THE DRAWINGS.
- ALL SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT FOR DESIGN CONFORMANCE ONLY.
- SUB-SUB-CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING HIS OPERATION AND REPAIR ANY DAMAGE TO HIS WORK OR EXISTING CONDITIONS WHILE THE PROJECT IS UNDER CONSTRUCTION.
- ALL SUB-SUB-CONTRACTORS MUST HAVE PROPER EVIDENCE OF LIABILITY INSURANCE, LOCAL LICENSE AND BONDING ABILITY.
- ALL WORK SHALL BE GUARANTEED BY SUB-CONTRACTOR OR SUB-SUB-CONTRACTOR IN WRITING FOR ONE YEAR AGAINST FAULTY MATERIALS AND / OR POOR WORKMANSHIP.
- ALL SUB-SUB-CONTRACTORS SHALL HOLD HARMLESS THE OWNER, ARCHITECT, AND ENGINEERS FOR ANY PERSONAL INJURY TO CONSTRUCTION WORKERS OR THE PUBLIC, DAMAGE TO THE JOB OR TO ADJACENT PROPERTIES.
- SUB-SUB-CONTRACTOR SHALL BE RESPONSIBLE TO MAKE ALL NECESSARY EXISTING CONDITIONS INVESTIGATIONS, INCLUDING VERIFICATION AND DETERMINATION OF UTILITY LOCATIONS.
- ROUGH LUMBER SHALL BE IN ACCORDANCE WITH THE STANDARD GRADING AND DRESSING RULES OF THE WEST COAST LUMBER INSPECTION BUREAU, HAVING A FB=1,200 PSI AND AN E=1,500 MIN. LUMBER SHALL BE PRESSURE TREATED AND FIRE RETARDANT.

SITE SECURITY NOTES

- ALL PERSONS ENTERING THE MORRIS BRIDGE WATER TREATMENT PLANT (MBWTP) ARE REQUIRED TO DISPLAY AN IDENTIFICATION CARD ISSUED BY THE CITY OF TAMPA OR TO BE ESCORTED AT ALL TIMES BY AN APPROVED ESCORT DISPLAYING A CITY OF TAMPA ISSUED IDENTIFICATION CARD.
- VEHICLES ENTERING THE MBWTP ARE SUBJECT TO SEARCH AND INSPECTION PRIOR TO ENTERING. THE PROCEDURES WILL BE OUTLINED BY THE PROJECT MANAGER, AND SUB-CONTRACTORS ARE EXPECTED TO FAMILIARIZE THEMSELVES WITH AND COMPLY WITH THESE PROCEDURES.
- VEHICLES ENTERING THE MBWTP MUST DISPLAY ALL NECESSARY IDENTIFICATION MATERIALS AS OUTLINED IN THE PROJECT MANUAL AUTHORIZING THE VEHICLE FOR USE WITHIN THE MBWTP. ONLY PERSONS HOLDING VALID MBWTP DRIVER'S BADGE MAY DRIVE UNESCORTED WITHIN THE MBWTP. UNAUTHORIZED VEHICLES MAY ENTER ONLY UNDER ESCORT FROM AUTHORIZED VEHICLES.
- SUB-SUB-CONTRACTOR PERSONNEL MUST OBTAIN SECURITY BADGES FROM THE PROJECT MANAGER IN ORDER TO PERFORM THE WORK. ONE (1) BADGED EMPLOYEE MAY ESCORT UP TO FIVE (5) UN-BADGED EMPLOYEES. ESCORTED EMPLOYEES MUST REMAIN IN CLOSE PROXIMITY TO THE BADGED EMPLOYEE AND CANNOT BE LEFT UNATTENDED ON THE AIRFIELD. THE SUB-CONTRACTOR WILL BE RESPONSIBLE FOR PAYING THE REQUIRED FEES TO OBTAIN BADGES. CALL BADGING OFFICE FOR INFORMATION CONCERNING BADGING PROCEDURES & FEES.
- PROVISION OF FENCING AT SUB-SUB-CONTRACTOR MATERIAL STORAGE AREA IS THE PURVIEW OF THE SUB-SUB-CONTRACTOR, NOT A REQUIREMENT.

Jacobs
5401 W. KENNEDY BLVD.
STE 300 & 900
Tampa, FL 33609
P:(813) 282-3500
www.jacobs.com

NO.	DATE	DR	DSGN	REVISION	CHK	APVD	BY	APVD



Project Title: **FILTER BUILDING ROOF RETROFIT & SITE IMPROVEMENTS**
Drawing Title: **ARCHITECTURAL ABBREVIATIONS, SYMBOLS AND GENERAL NOTES**
Date: 07/08/2022
Proj. No.: D3237903
Drawing No.: **FL-A-001**

1

2

3

4

5

6

SITE GENERAL NOTES

- THE SUB-CONTRACTOR SHALL COMPLY WITH ALL CURRENT VEHICLE OPERATIONAL ORDERS AND INSTRUCTIONS PROVIDED BY THE CITY OF TAMPA.
- DUMP TRUCKS SHALL USE LOAD COVERS AND SHALL BE LOADED BY THE SUB-CONTRACTOR SUCH THAT NO SPILLAGE OCCURS DURING TRANSIT ON THE STATE, MUNICIPAL, OR LOCAL ROADWAYS, AND SITE APRONS.
- ALL MATERIALS AND EQUIPMENT SHALL BE STORED AND PARKED, WHEN NOT IN USE, AT THE SUB-CONTRACTOR'S STORAGE AREAS SHOWN ON THE PLANS.
- THE SUB-CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITIES WITH THE PROJECT MANAGER AND OTHER SUB-CONTRACTORS WORKING IN CLOSE PROXIMITY TO THIS PROJECT. FINAL AUTHORITY IN THE APPROVAL OF CONSTRUCTION ACTIVITIES AND SEQUENCING LIES WITH THE PROJECT MANAGER.
- ALL MATERIALS WILL ONLY BE ALLOWED TO BE STOCKPILED IN THE DESIGNATED SUB-CONTRACTOR MATERIAL STORAGE AREA.
- REPLANT AND RESEED DISTURBED LANDSCAPE AREAS DAMAGED BY THE WORK IN THIS CONTRACT.
- CONTROLLED ROOF ACCESS AREA IS A REQUIREMENT TO PREVENT UNAUTHORIZED PERSONS FROM ACCESSING THE PROJECT ROOF AREAS. SEE SPECIFICATION SECTION 01 50 00 'TEMPORARY FACILITIES AND CONTROLS' FOR REQUIREMENTS. REFER TO CIVIL FOR FENCING DETAIL.
- REFER TO CIVIL AND PROCESS MECHANICAL DEMOLITION PLANS FOR DRAWINGS RELATED TO UNDERGROUND DEMOLITION AND NEW SITE / LANDSCAPING WORK.

BUILDING EXTERIOR NOTES:

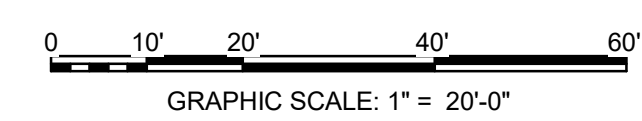
EXTERIOR PAINTING:

- PAINT THE ENTIRE BUILDING EXTERIOR, INCLUDING ALL EXTERIOR SURFACES OF STAIR CASES, ELEVATOR / EQUIPMENT ENCLOSURE DOORS AND FRAMES SHALL BE PAINTED ON THE EXTERIOR AND INTERIOR SIDES. PAINT COLORS TO MATCH EXISTING.
- THE NEW PAINT SHALL BE COMMERCIAL-GRADE EXTERIOR LATEX AND COMPATIBLE WITH THE EXISTING PAINT RESIN.
- ALL PRODUCTS SHALL BE LOW VOLATILE ORGANIC COMPOUND AND WATER-BASED.
- PRODUCTS CONTAINING LEAD ARE PROHIBITED.
- PRIOR TO PAINTING THE SUB-CONTRACTOR SHALL CLEAN, PATCH, REPAIR AND SEAL ALL SURFACES AS NECESSARY TO RECEIVE NEW PAINT AND ENSURE WATER TIGHTNESS. APPLY A COAT OF APPROPRIATE PRIMER PRIOR TO APPLY THE FINISH COAT.
- SUB-CONTRACTOR SHALL REMOVE AND REPLACE ALL SECONDARY CAULKING AND SEALANTS FOR EXTERIOR WINDOWS, CURTAIN WALLS, DOORS, LOUVERS AND FACADE COMPONENTS.
- SUB-CONTRACTOR SHALL INSPECT, REPAIR, PREP AND PAINT AS REQUIRED, ALL EXISTING WALL PANELS, CONCRETE AND/OR STUCCO CRACKS / SPALLS.
- SUB-CONTRACTOR SHALL REMOVE SELECT PORTIONS OF DAMAGED AND DETERIORATED HARD-COAT STUCCO OVER WIRE LATH AND PATCH TO NEW CONDITION.
- ALL CRACKS IN EXISTING STUCCO TO BE CUT-BACK AND PATCHED BACK TO MATCH EXISTING.
- ALL MISCELLANEOUS 'TAPCON' AND OTHER ASSORTED ABANDONED FASTENERS SHALL BE REMOVED FROM EXTERIOR STUCCO AND HOLES PATCHED TO MATCH EXISTING.

KEYED NOTES:

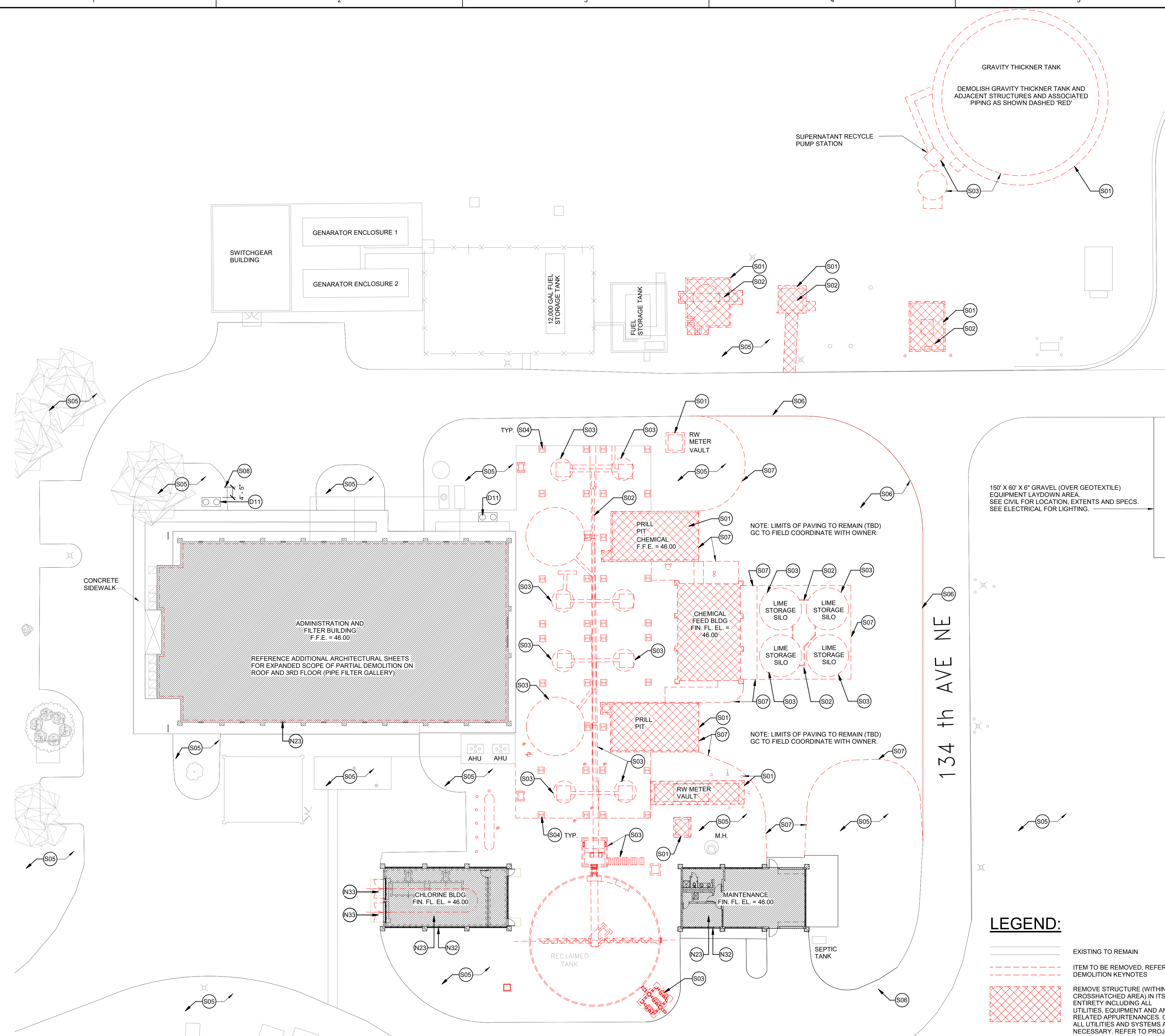
- D11 EXISTING HVAC CONDENSER, REMOVE AND REINSTALL ON-GRADE. REFER TO MECH DWG FL-M-101.
- N23 REFER TO 'BUILDING EXTERIOR NOTES'.
- N32 PROVIDE EXTERIOR CLEANING AND REFURBISHMENT OF MAINTENANCE BUILDING AND EXISTING DECOMMISSIONED CHLORINE STORAGE BUILDING FOR USE AS ACCESSORY MAINTENANCE BUILDING. PARTIAL DEMO OF EXISTING CRANE RAIL (BY OTHERS).
- N33 REMOVE EXISTING PAIR OF DOORS AND FRAME AND REPLACE WITH 8'-4" X 12'-0" MOTOR OPERATED ROLL-UP DOOR. FIELD VERIFY EXISTING OPENING SIZE. RE. ELECTRICAL (277V, 1 PH).
- S01 DEMOLISH EXISTING STRUCTURE IN ITS ENTIRETY, HATCHED AREA DENOTES LIMITS OF DEMOLITION WORK, REFER TO LEGEND
- S02 REFER TO CIVIL DWGS FOR SITE PAVING OR GROUND PATCHING, AND UNDERGROUND UTILITIES DEMOLITION.
- S03 DEMOLISH EXISTING TANK OR STORAGE SILO STRUCTURE IN ITS ENTIRETY INCLUDING RELATED CATWALKS, LADDERS, SUPPORT COLUMNS, PIPES, EQUIPMENT AND APPURTENANCES. REFER TO CIVIL AND PROCESS MECHANICAL DEMOLITION PLANS FOR RELATED UNDERGROUND UTILITIES DEMOLITION.
- S04 DEMOLISH EXISTING TANK SUPPORT STEEL COLUMN AND BEAMS ABOVE BASE SLAB.
- S05 EXISTING LANDSCAPED AREA TO REMAIN. BACKFILL WITH TOP SOIL. REPAIR DISTURBED AREAS AND RE-SOD GROUNDS AFTER THE REMOVAL OF DEMOLISHED ITEMS DEPICTED IN THIS PLAN. REFER TO CIVIL DWGS.
- S06 SAWCUT AND REMOVE PAVEMENT, PREPARE ADJACENT AREAS TO RECEIVE NEW TOP SOIL AND SOD. REFER TO CIVIL PLANS FOR PAVEMENT DEMOLITION LIMITS.
- S07 DEMOLISH EXISTING CURB, PREPARE ADJACENT AREAS TO RECEIVE NEW TOP SOIL AND SOD, REFER TO CIVIL PLANS.
- S08 6" DIAM X 36" HGT PIPE BOLLARD GROUT SOLID, PAINTED 'SAFETY YELLOW'.

GRAPHIC SCALE



LEGEND:

- EXISTING TO REMAIN
- ITEM TO BE REMOVED, REFER TO DEMOLITION KEYNOTES
- REMOVE STRUCTURE (WITHIN CROSSHATCHED AREA) IN ITS ENTIRETY INCLUDING ALL UTILITIES, EQUIPMENT AND ANY RELATED APPURTENANCES. CAP ALL UTILITIES AND SYSTEMS AS NECESSARY. REFER TO PROJECT SPECIFICATIONS. SELECTIVE DEMOLITION.



1 SITE PLAN
1" = 20'-0"

134 th AVE NE

Jacobs
5401 W. KENNEDY BLVD.
STE 300 & 900
Tampa, FL 33609
P:(813) 282-3500
www.jacobs.com

NO.	DATE	BY	AP/VD

NO.	DATE	BY	AP/VD



Project Title:
FILTER BUILDING ROOF RETROFIT & SITE IMPROVEMENTS

Drawing Title:
SITE DEMOLITION / RENOVATION PLAN

Date: 07/08/2022

Proj. No.: D3237903

Drawing No.: FL-A-101

BUILDING EXTERIOR NOTES:

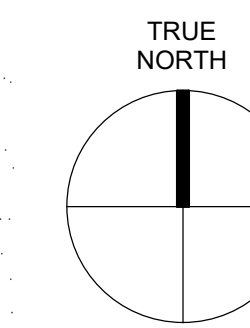
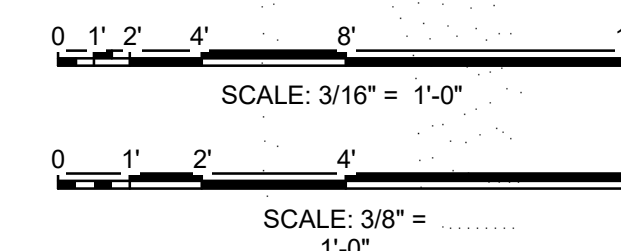
EXTERIOR PAINTING:

1. PAINT THE ENTIRE BUILDING EXTERIOR, INCLUDING ALL EXTERIOR SURFACES OF STAIR CASES, ELEVATOR / EQUIPMENT ENCLOSURE, DOORS AND FRAMES SHALL BE PAINTED ON THE EXTERIOR AND INTERIOR SIDES. PAINT COLORS TO MATCH EXISTING.
2. THE NEW PAINT SHALL BE COMMERCIAL-GRADE EXTERIOR LATEX AND COMPATIBLE WITH THE EXISTING PAINT RESIN.
3. ALL PRODUCTS SHALL BE LOW VOLATILE ORGANIC COMPOUND AND WATER-BASED.
4. PRODUCTS CONTAINING LEAD ARE PROHIBITED.
5. PRIOR OF PAINTING THE SUB-CONTRACTOR SHALL CLEAN, PATCH, REPAIR AND SEAL ALL SURFACES AS NECESSARY TO RECEIVE NEW PAINT AND ENSURE WATER TIGHTNESS. APPLY A COAT OF APPROPRIATE PRIMER PRIOR TO APPLY THE FINISH COAT.
6. SUB-CONTRACTOR SHALL REMOVE AND REPLACE ALL SECONDARY CAULKING AND SEALANTS FOR EXTERIOR WINDOWS, CURTAIN WALLS, DOORS, LOUVERS AND FACADE COMPONENTS.
7. SUB-CONTRACTOR SHALL INSPECT, REPAIR, PREP AND PAINT AS REQUIRED. ALL EXISTING WALL PANELS, CONCRETE AND/OR STUCCO CRACKS / SPALLS.
8. SUB-CONTRACTOR SHALL REMOVE SELECT PORTIONS OF DAMAGED AND DETERIORATED HARD-COAT STUCCO OVER WIRE LATH AND PATCH TO NEW CONDITION.
9. ALL CRACKS IN EXISTING STUCCO TO BE CUT-BACK AND PATCHED BACK TO MATCH EXISTING.
10. ALL MISCELLANEOUS 'TAPCON' AND OTHER ASSORTED ABANDONED FASTENERS SHALL BE REMOVED FROM EXTERIOR STUCCO AND HOLES PATCHED TO MATCH EXISTING.

KEYED NOTES:

- D16 DEMO PORTION OF EXISTING CRANE RAIL HOIST BEAMS (BY OTHERS).
- N23 REFER TO "BUILDING EXTERIOR NOTES".
- N32 PROVIDE EXTERIOR CLEANING AND REFURBISHMENT OF MAINTENANCE BUILDING AND EXISTING DECOMMISSIONED CHLORINE STORAGE BUILDING FOR USE AS ACCESSORY MAINTENANCE BUILDING. PARTIAL DEMO OF EXISTING CRANE RAIL (BY OTHERS).
- N33 REMOVE EXISTING PAIR OF DOORS AND FRAME AND REPLACE WITH 8'-4" X 12'-0" MOTOR OPERATED ROLL-UP DOOR. FIELD VERIFY EXISTING OPENING SIZE. RE: ELECTRICAL (277V, 1 PH).
- N34 NEW HEADER ACROSS OPENING WITH METAL LATH AND STUCCO TO MATCH ADJACENT WALLS. RE: STRUCTURAL FOR ADDITIONAL INFORMATION.

GRAPHIC SCALE



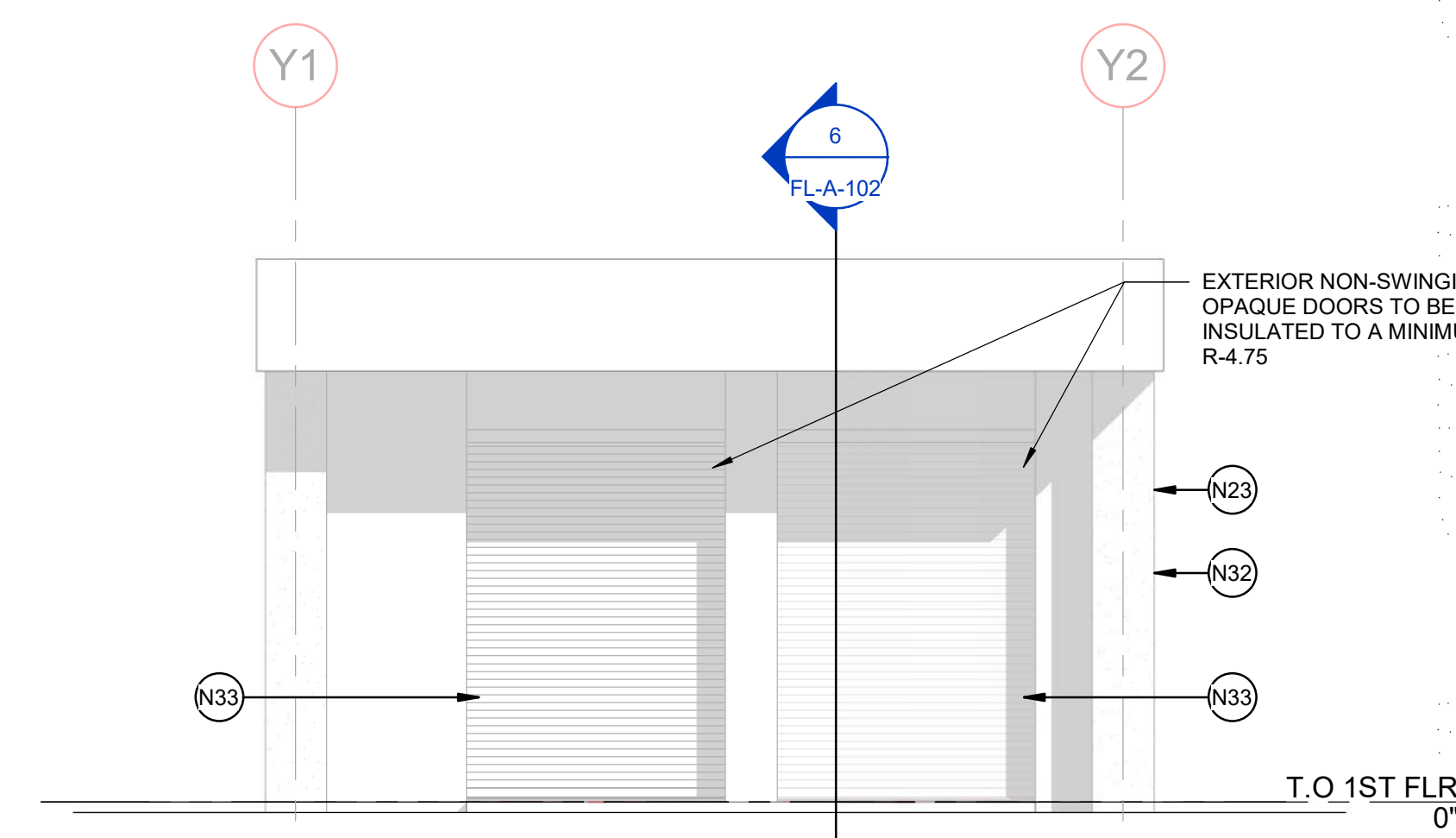
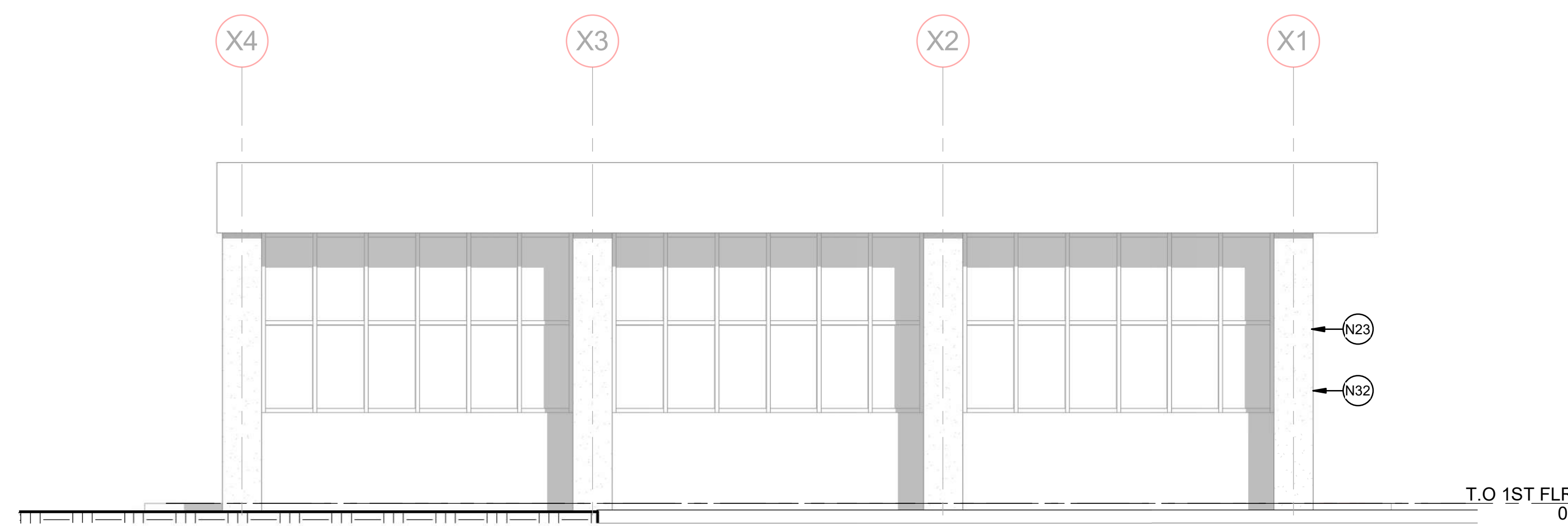
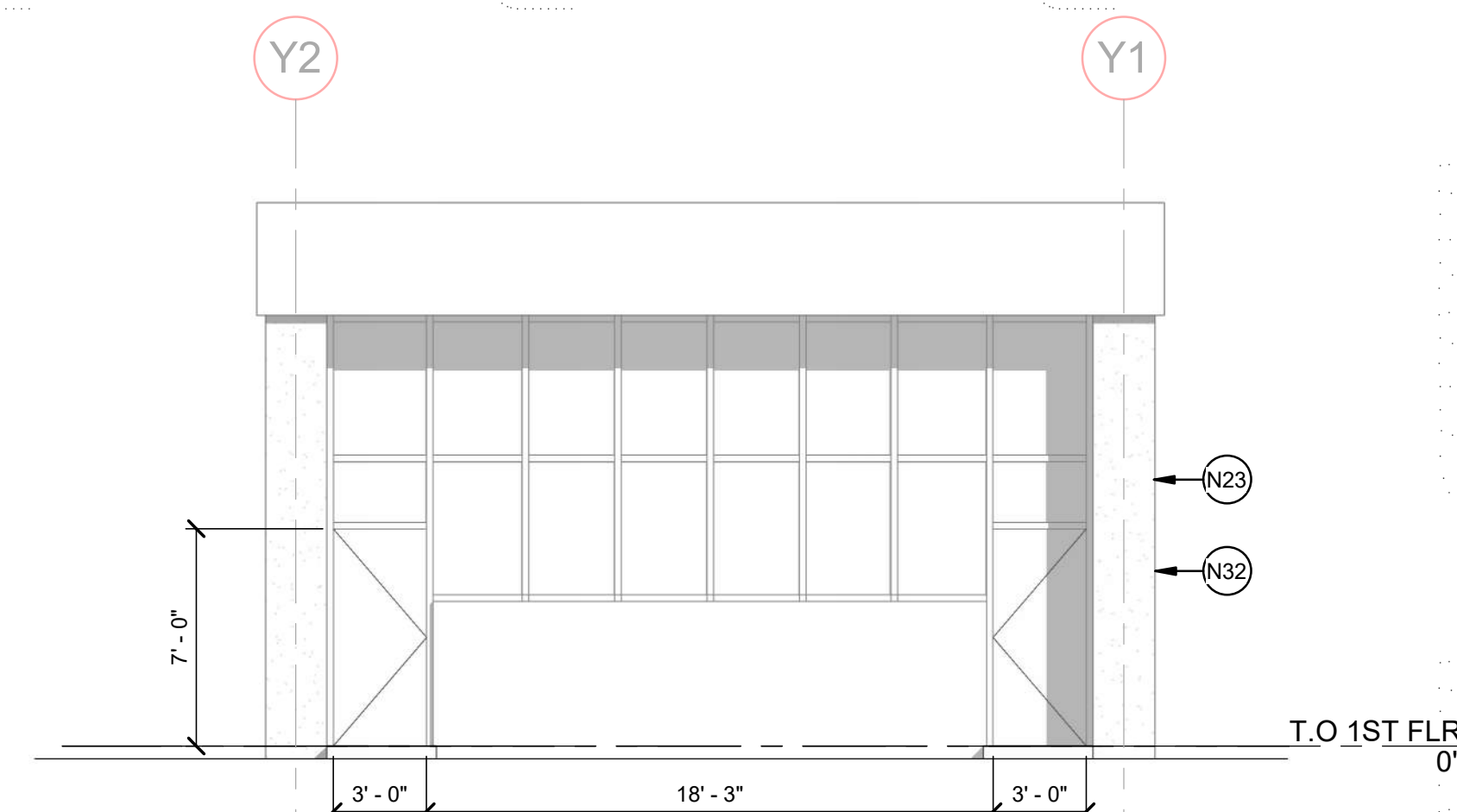
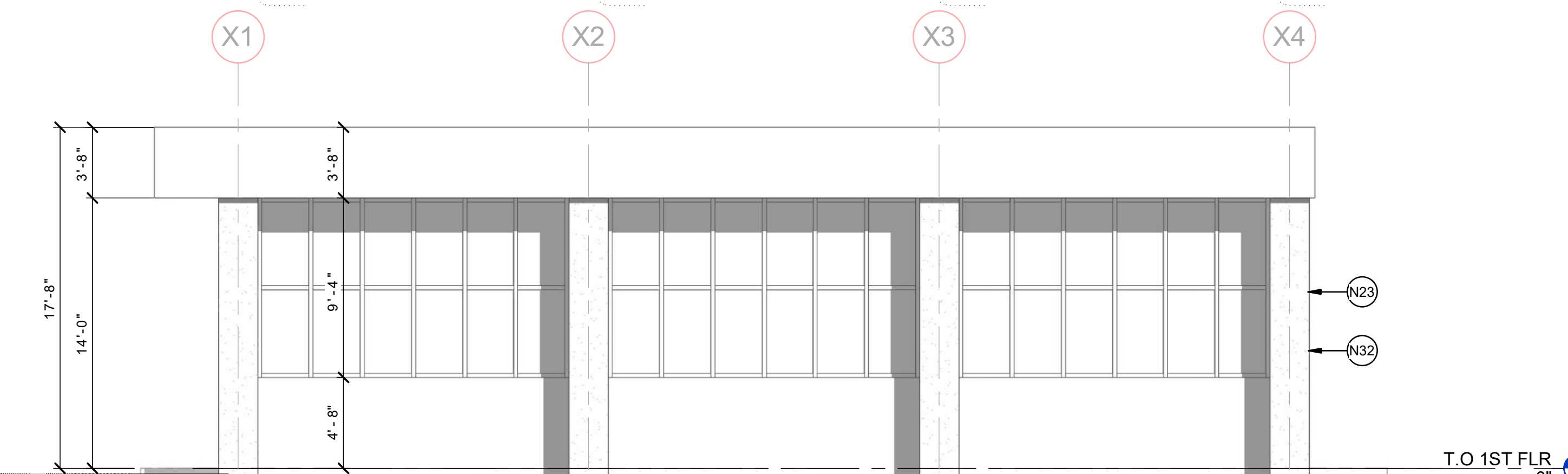
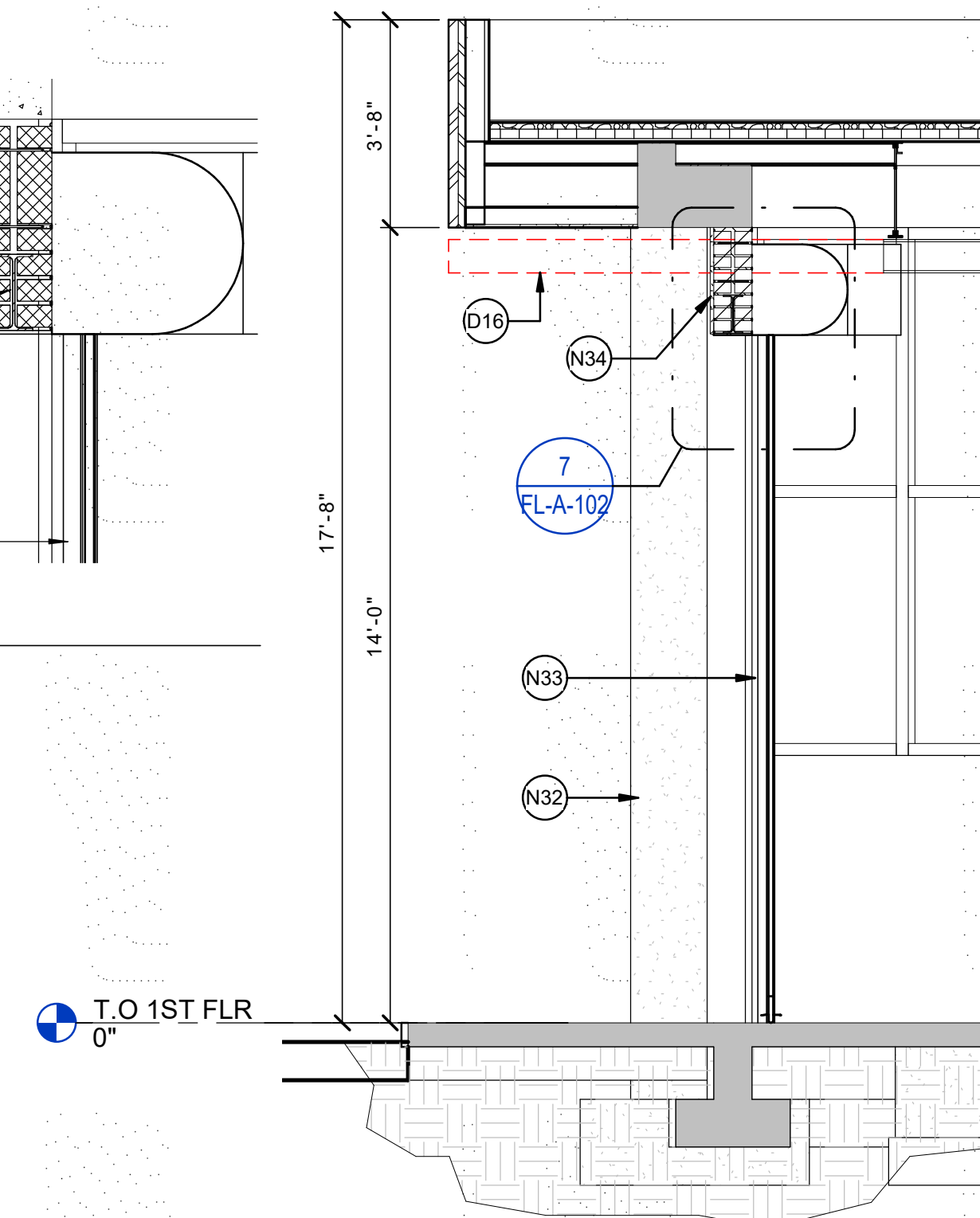
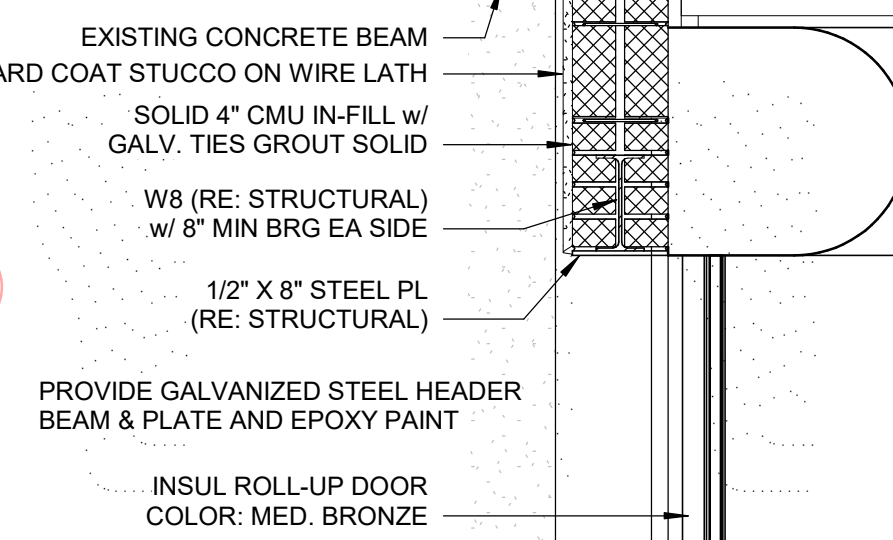
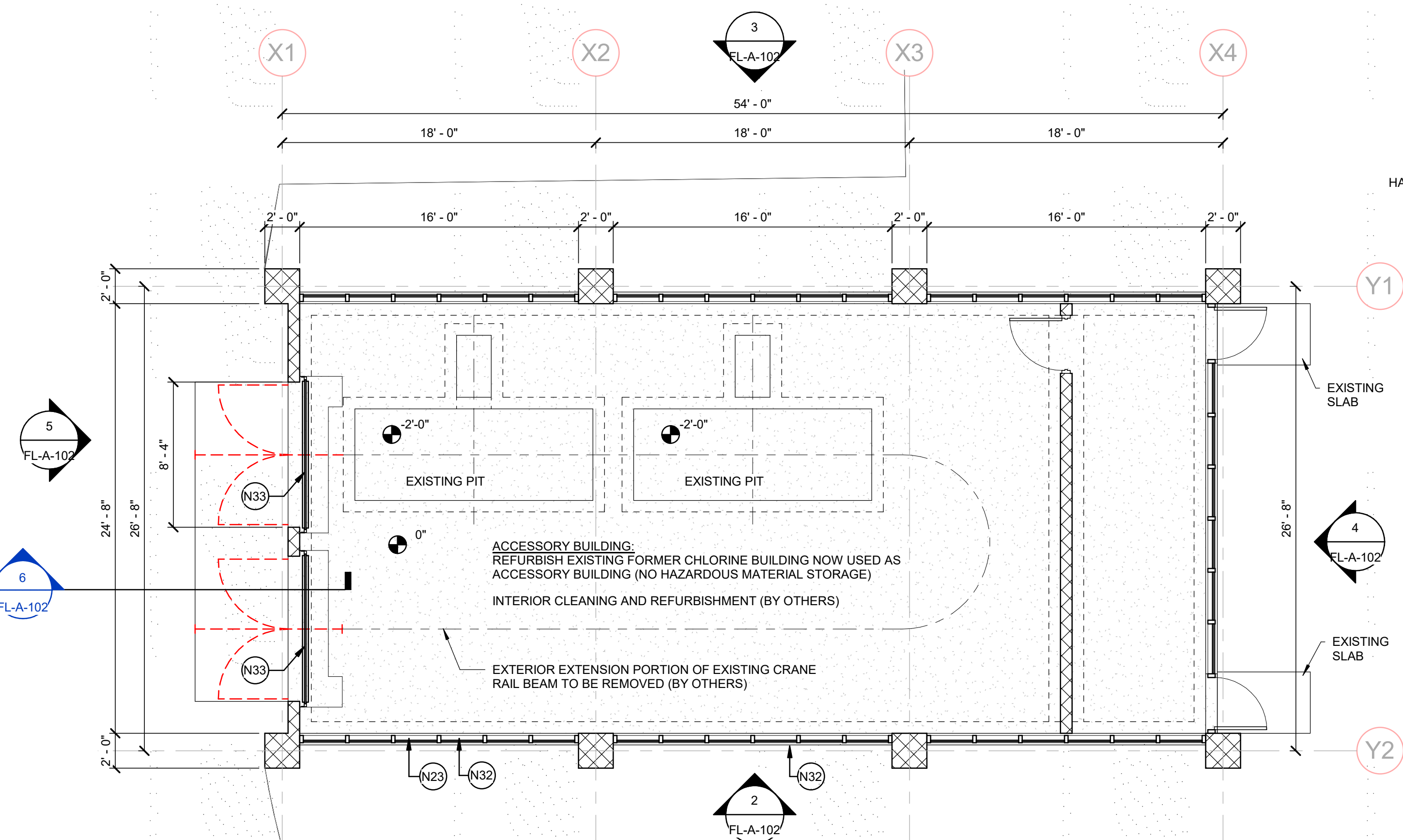
Project Title:
FILTER BUILDING ROOF RETROFIT & SITE IMPROVEMENTS

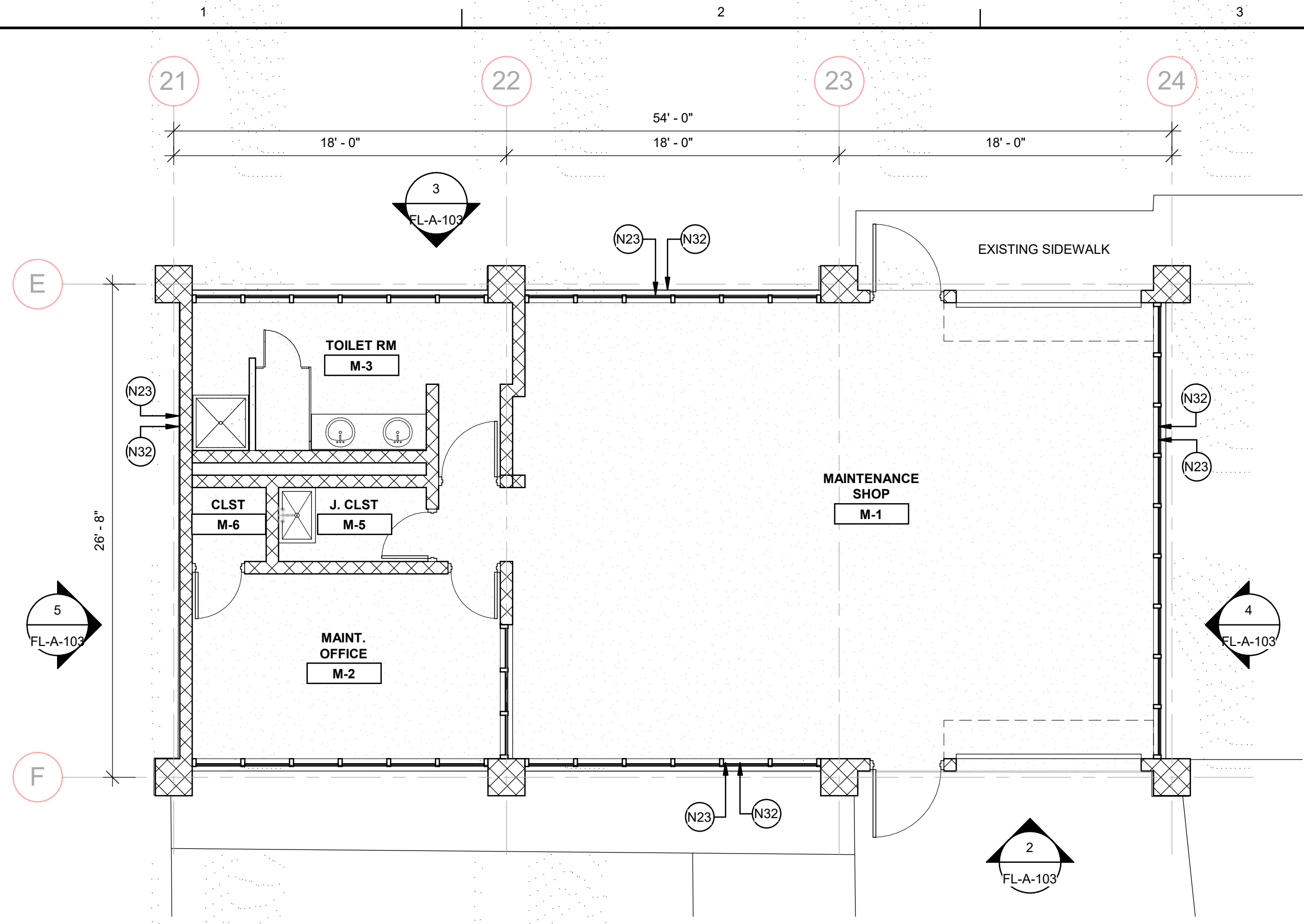
Drawing Title:
FLOOR PLAN AND ELEVATIONS - CHLORINE BUILDING

Date: 07/08/2022
Proj. No.: D3237903
Drawing No.:

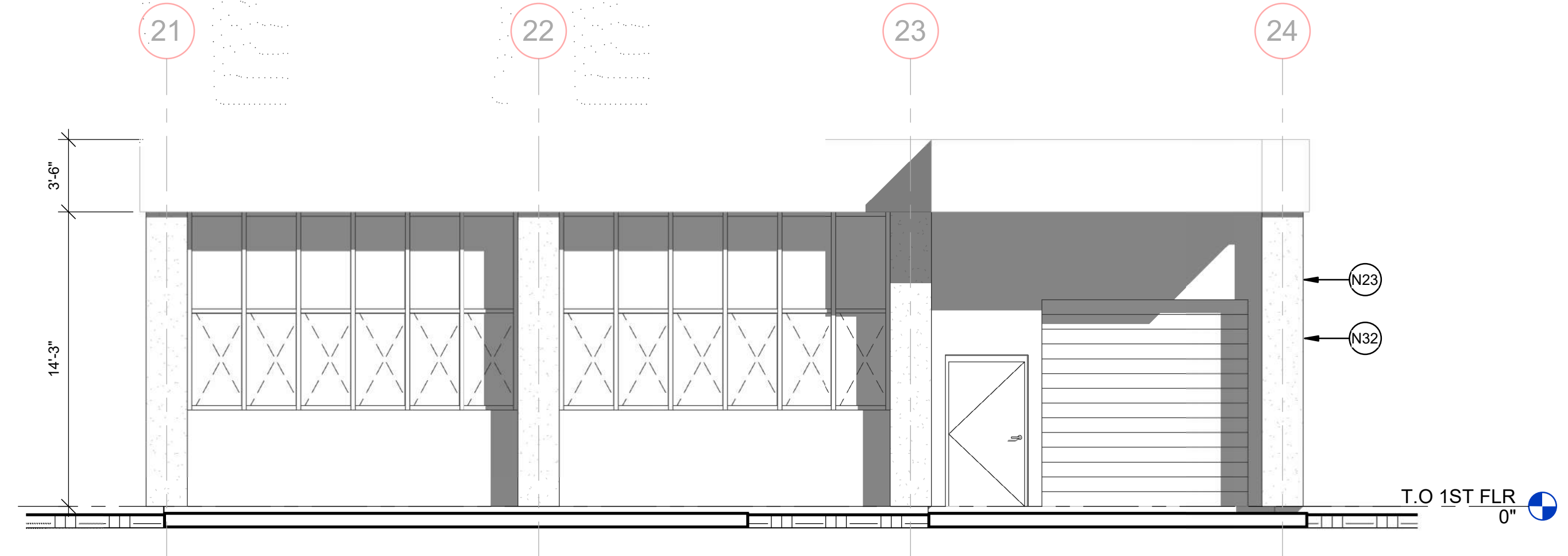
FL-A-102

100% CD SET

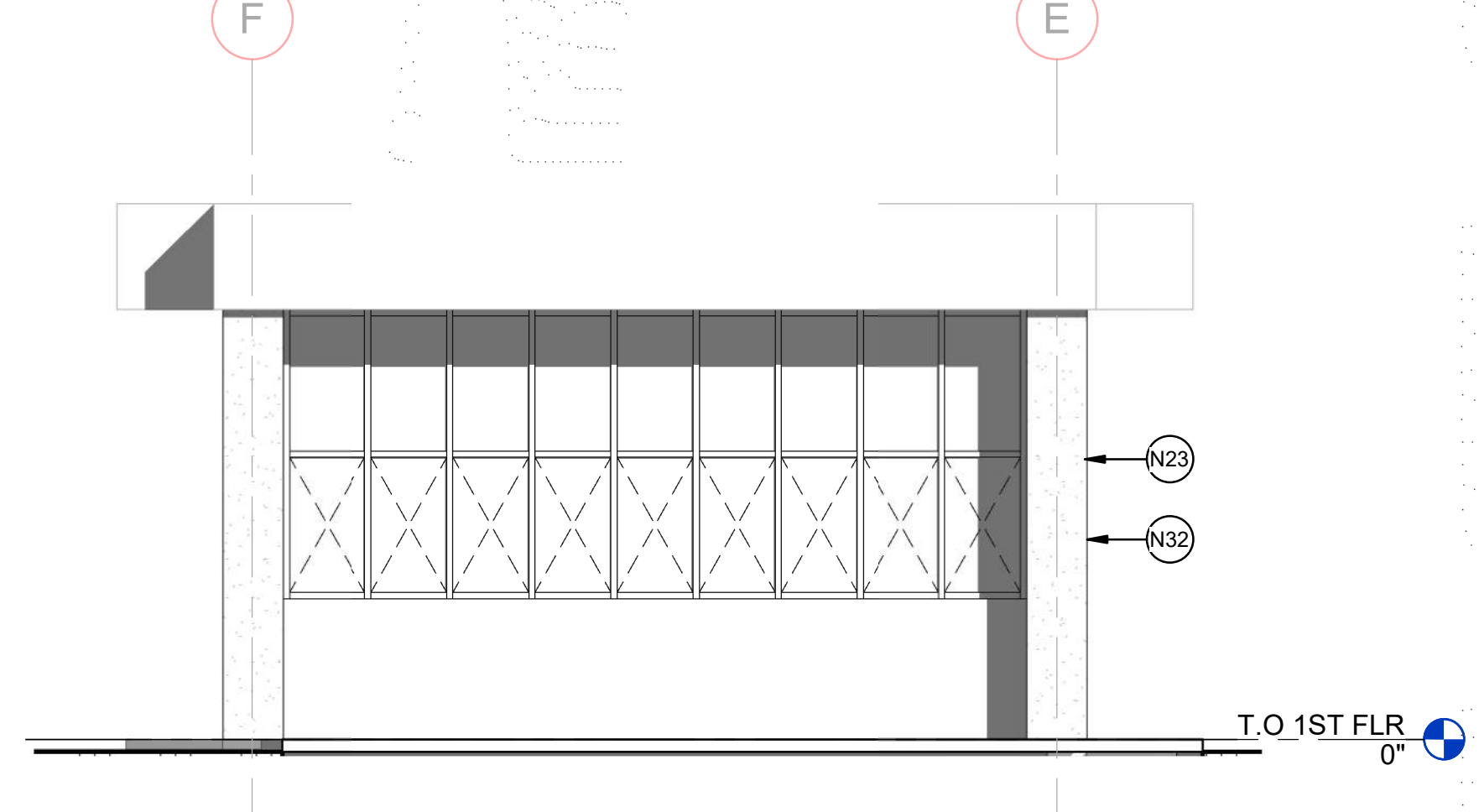




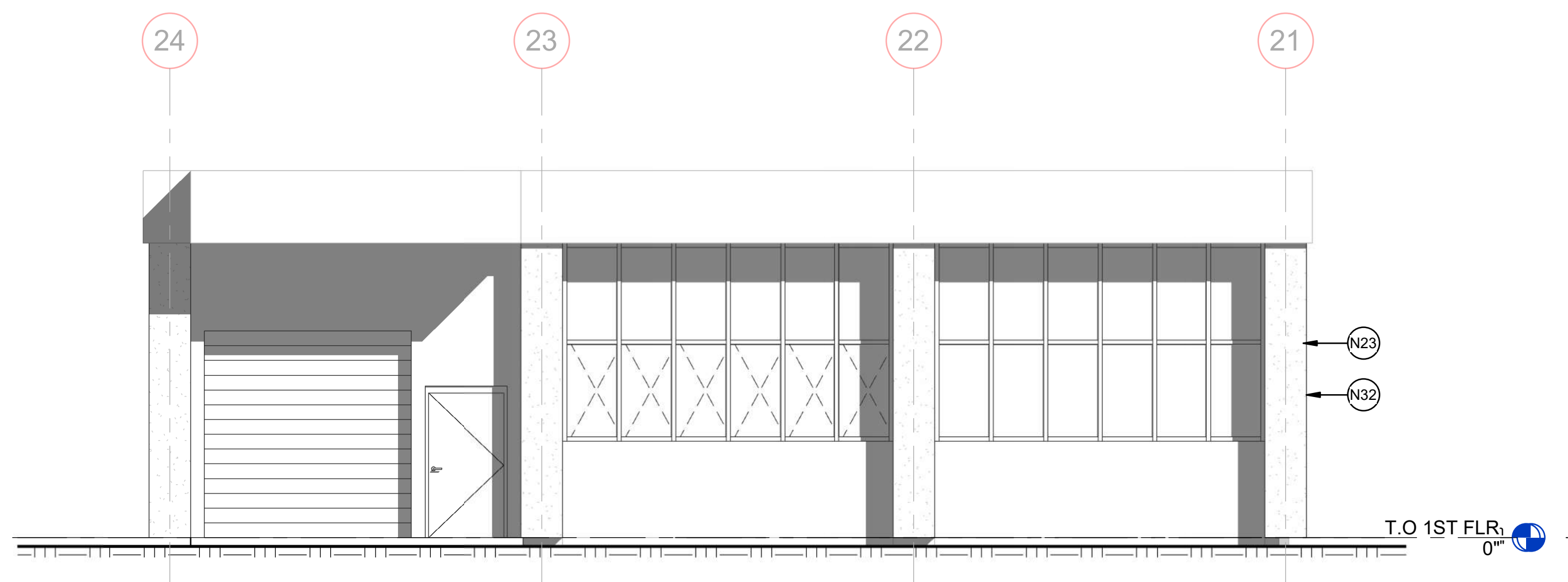
1 FLOOR PLAN - MAINTENANCE BUILDING
3/16" = 1'-0"



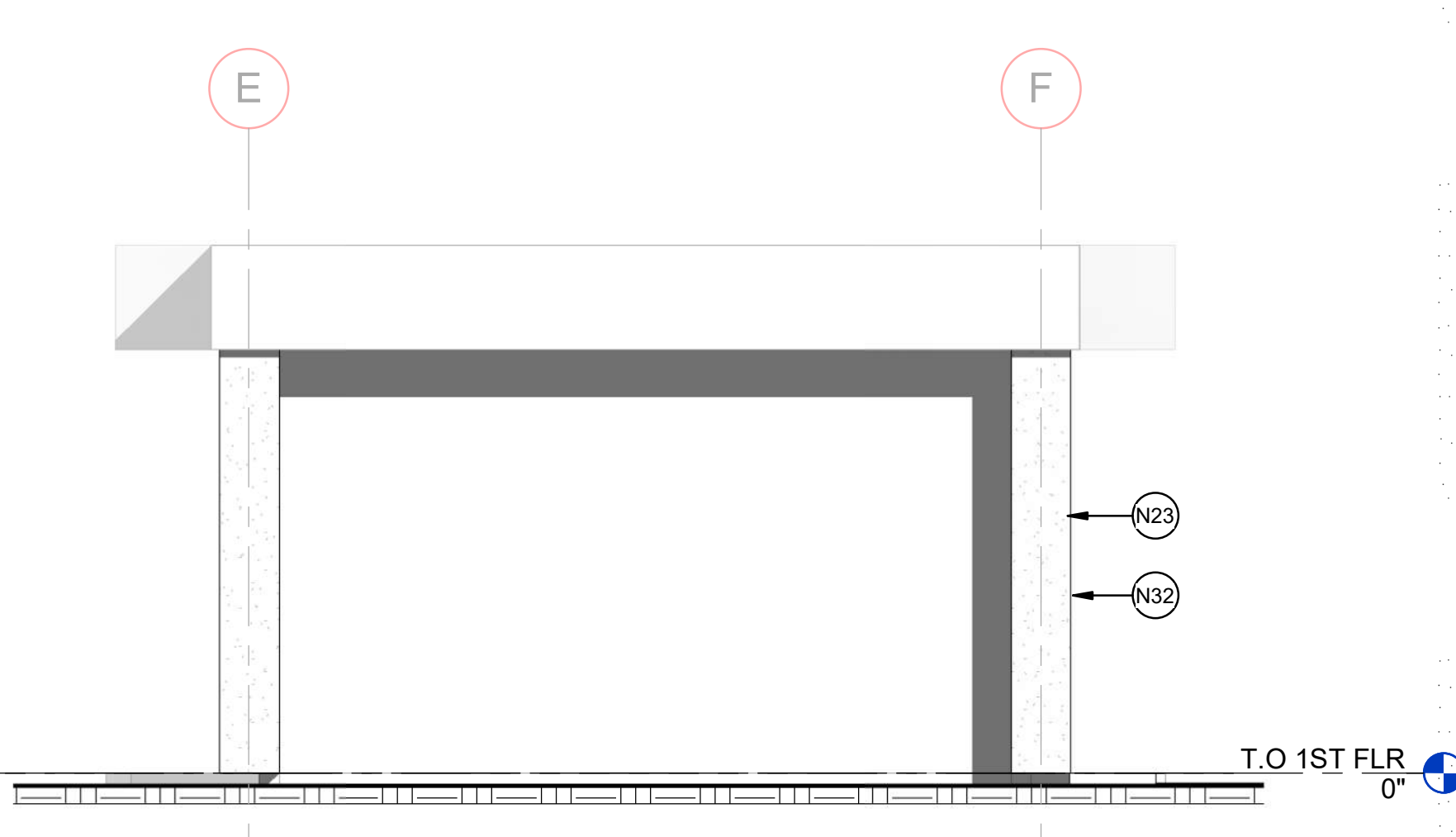
2 ELEVATION - SOUTH EXTERIOR
3/16" = 1'-0"



4 ELEVATION - EAST EXTERIOR
3/16" = 1'-0"



3 ELEVATION - NORTH EXTERIOR
3/16" = 1'-0"



5 ELEVATION - WEST EXTERIOR
3/16" = 1'-0"

BUILDING EXTERIOR NOTES:

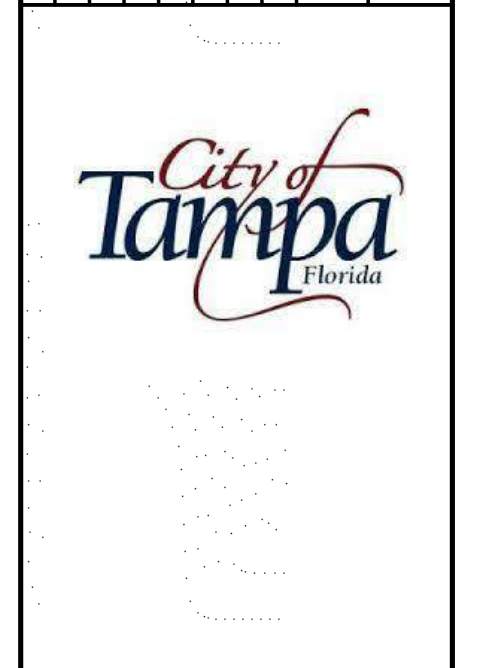
- EXTERIOR PAINTING:**
1. PAINT THE ENTIRE BUILDING EXTERIOR, INCLUDING ALL EXTERIOR SURFACES OF STAIR CASES, ELEVATOR / EQUIPMENT ENCLOSURE, DOORS AND FRAMES SHALL BE PAINTED ON THE EXTERIOR AND INTERIOR SIDES. PAINT COLORS TO MATCH EXISTING.
 2. THE NEW PAINT SHALL BE COMMERCIAL-GRADE EXTERIOR LATEX AND COMPATIBLE WITH THE EXISTING PAINT RESIN.
 3. ALL PRODUCTS SHALL BE LOW VOLATILE ORGANIC COMPOUND AND WATER-BASED.
 4. PRODUCTS CONTAINING LEAD ARE PROHIBITED.
 5. PRIOR OF PAINTING THE SUB-CONTRACTOR SHALL CLEAN, PATCH, REPAIR AND SEAL ALL SURFACES AS NECESSARY TO RECEIVE NEW PAINT AND ENSURE WATER TIGHTNESS. APPLY A COAT OF APPROPRIATE PRIMER PRIOR TO APPLY THE FINISH COAT.
 6. SUB-CONTRACTOR SHALL REMOVE AND REPLACE ALL SECONDARY CAULKING AND SEALANTS FOR EXTERIOR WINDOWS, CURTAIN WALLS, DOORS, LOUVERS AND FACADE COMPONENTS.
 7. SUB-CONTRACTOR SHALL INSPECT, REPAIR, PREP AND PAINT AS REQUIRED, ALL EXISTING WALL PANELS, CONCRETE AND/OR STUCCO CRACKS / SPALLS.
 8. SUB-CONTRACTOR SHALL REMOVE SELECT PORTIONS OF DAMAGED AND DETERIORATED HARD-COAT STUCCO OVER WIRE LATH AND PATCH TO NEW CONDITION.
 9. ALL CRACKS IN EXISTING STUCCO TO BE CUT-BACK AND PATCHED BACK TO MATCH EXISTING.
 10. ALL MISCELLANEOUS 'TAPCON' AND OTHER ASSORTED ABANDONED FASTENERS SHALL BE REMOVED FROM EXTERIOR STUCCO AND HOLES PATCHED TO MATCH EXISTING.

KEYED NOTES:

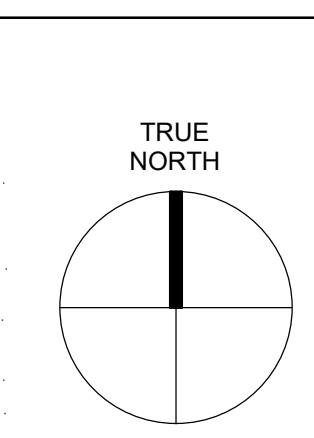
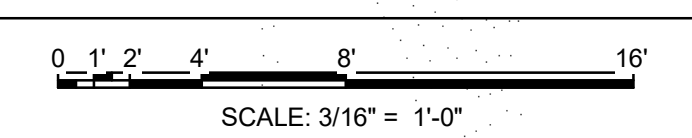
- N23 REFER TO "BUILDING EXTERIOR NOTES".
N32 PROVIDE EXTERIOR CLEANING AND REFURBISHMENT OF MAINTENANCE BUILDING AND EXISTING DECOMMISSIONED CHLORINE STORAGE BUILDING FOR USE AS ACCESSORY MAINTENANCE BUILDING. PARTIAL DEMO OF EXISTING CRANE RAIL (BY OTHERS).

Jacobs
5401 W. KENNEDY BLVD.
STE 300 & 900
Tampa, FL 33609
P:(813) 282-3500
www.jacobs.com

NO.	DATE	DR	CHK	BY	APVD
				M. Johnson	
				M. Kussler	
				M. Johnson	
				M. Johnson	



GRAPHIC SCALE



Project Title: **FILTER BUILDING ROOF RETROFIT & SITE IMPROVEMENTS**
Drawing Title: **FLOOR PLAN AND ELEVATIONS - MAINTENANCE BUILDING**

Date: 07/08/2022
Proj. No.: D3237903
Drawing No.: **FL-A-103**

ROOF PLAN NOTES



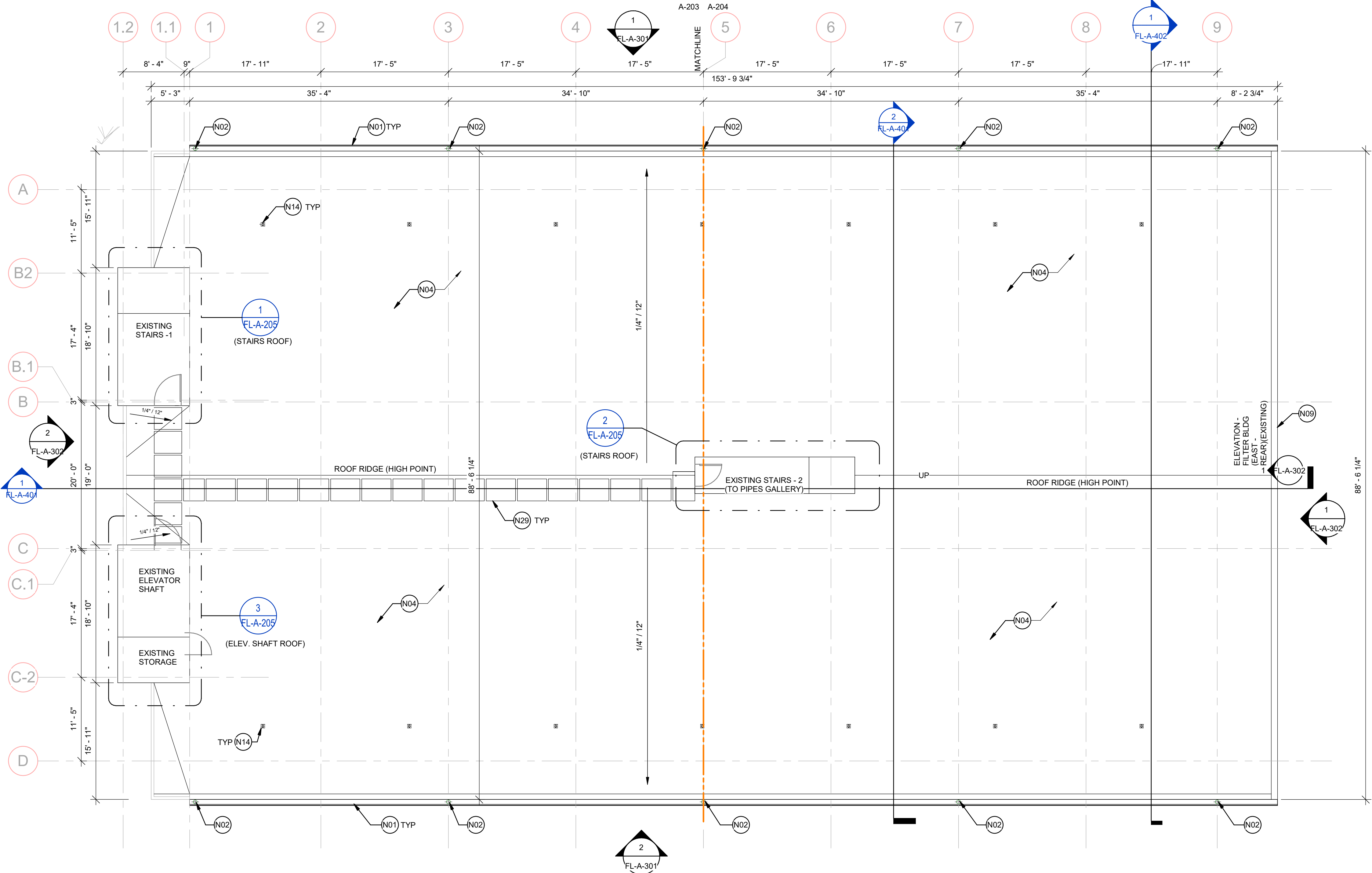
5401 W. KENNEDY BLVD. STE 300 & 900 Tampa, FL 33609 P:(813) 282-3500 www.jacobs.com

- 1. ROOF COVERINGS ADHERED TO THE ROOF DECK SHALL BE INSTALLED IN ACCORDANCE WITH 2020 FBC (7TH EDITION) SECTION 1506, AND SHALL BE DESIGNED TO RESIST THE DESIGN WIND LOAD PRESSURES FOR COMPONENTS AND CLADDING IN ACCORDANCE WITH FBC SECTION 1609.
2. ALL ROOFING COMPONENTS, ROOFING SYSTEMS AND ROOFING ASSEMBLIES SHALL HAVE A VALID AND CURRENT PRODUCT APPROVAL. IN THE EVENT THAT THE MANUFACTURERS PUBLISHED LITERATURE OR INSTRUCTIONS ARE IN CONFLICT WITH THOSE OF THE PRODUCT APPROVAL, THE PRODUCT APPROVAL SHALL PREVAIL.
3. ALL ROOF SYSTEMS SHALL BE FURNISHED AND INSTALLED PER ROOF MANUFACTURER'S INSTRUCTIONS AND STANDARDS. THE MODIFIED BITUMEN ROOFING MEMBRANE (SBS) SHALL BE TESTED IN ACCORDANCE WITH FM 4474, UL 580 OR UL 1897.
4. NOT ALL PLUMBING, MECHANICAL, ELECTRICAL, ETC. ITEMS MOUNTED ON OR PENETRATING ROOF MAY BE SHOWN. REFER TO RESPECTIVE PLANS AND AS-BUILT'S DRAWINGS FOR LOCATIONS, PENETRATIONS, ETC. THROUGH ROOF SYSTEM SHALL COMPLY WITH ROOF MANUFACTURER'S PRINTED INSTRUCTIONS AND STANDARDS.
5. ALL WORK AND MATERIALS BELONGING TO AND ADJACENT TO ROOF SHALL BE IN FULL COMPLIANCE WITH ROOF MANUFACTURER'S STANDARD INSTALLATION DETAILS AND WARRANTY.
6. STAGGER ALL ROOF INSULATION JOINTS. ALL INSULATION JOINTS GREATER THAN 1/4" SHALL BE FILLED WITH INSULATION STRIPS.
7. AT ALL ROOF PENETRATIONS, FILL AIR GAPS WITH SPRAY FOAM INSULATION TO MAINTAIN AIR TIGHTNESS.
8. PROVIDE CRICKET ADJACENT TO ROOFTOP EQUIPMENT (TYPICAL, WHETHER SHOWN OR NOT).
9. FOR LIGHTNING PROTECTION AIR TERMINAL LOCATIONS, REFER TO ELECTRICAL.
10. FOR LOCATION OF VENT THROUGH ROOF, REFER TO PLUMBING.
11. ALL COUNTER FLASHING AND MISCELLANEOUS METAL FLASHING SHALL HAVE ELASTOMERIC SEALANT APPLIED AT END CONDITIONS.
12. ALL EXPOSED FASTENERS SHALL BE CORROSION RESISTANT.
13. ALL ROOFING SHALL COMMENCE AT THE FURTHEST POINT FROM THE WORKERS ACCESS AND PROGRESS BACK TOWARDS THE ACCESS POINT.
14. IF STAGING ACCESS OR WORK IS REQUIRED ON THE FINISHED MEMBRANE, THE SUB-CONTRACTOR SHALL PROVIDE PROTECTION ALONG THE ACCESS PATH AND UNDER THE WORK EXTENDING 48" BEYOND THE REQUIRED WORK AREA. PROTECTION SHALL CONSIST OF 3/4" PLYWOOD OVER A HEAVY CANVAS TARP WITH SAND BAG BALLASTS AS REQUIRED TO PREVENT THE PLYWOOD FROM BECOMING AIRBORNE DURING STRONG WINDS.
15. ALL CLARIFICATIONS OR ADDITIONAL INFORMATION REQUIRED SHALL BE IN ACCORDANCE WITH CRITERIA AND DETAILS OF THE NRCA ROOFING AND WATER PROOFING MANUAL. ANY DEVIATION FROM THE SPECIFIED OR INDICATED REQUIREMENTS SHALL BE SUBMITTED FOR APPROVAL BY ARCHITECT PRIOR TO INSTALLATION.
16. ALL ROOF SYSTEMS ANCHORAGE FASTENERS AND SCREWS SHALL PENETRATE THE TOP OF THE ROOF DECK.
17. REFER TO ENLARGED ROOF PLANS FOR FALL ARREST SYSTEM LAYOUT AND DETAIL INFORMATION.
18. LAYOUT OF ROOFTOP FALL ARREST SYSTEMS IS CONCEPTUAL. MANUFACTURER / INSTALLER SHALL DESIGN AND INSTALL A SYSTEM INCLUDING PERSONNEL FULL-BODY HARNESS, LANYARDS, DECELERATION DEVICES, LIFELINE CONNECTORS AND ALL COMPONENTS NECESSARY TO PROVIDE ADEQUATE PROTECTION IN ACCORDANCE WITH OSHA/ANSI STANDARDS AND THAT ALLOWS OWNER'S TRAINED PERSONNEL TO INSPECT ALL PORTIONS OF ALL ROOFS INCLUDING PERIMETER DRAINAGE SYSTEM. MANUFACTURER / INSTALLER SHALL COORDINATE WITH MANUFACTURER OF SHEET METAL ROOF TO VERIFY THAT SHEET METAL ROOF ASSEMBLY WILL TRANSFER LOADS TO ROOF DECK.
19. ALL DOWNSPOUT LEADERS SHALL BE CONNECTED TO THE EXISTING RAIN STORM SEWER SYSTEM, DOWNSPOUT TRANSITION WITH UNDERGROUND PIPES SHALL BE EQUIPPED WITH RODENT PROOF RUBBER BOOTS, REFER TO CIVIL PLANS.
20. SUB-CONTRACTOR SHALL REINSTALL FUNCTIONAL ITEMS AND EQUIPMENT PREVIOUSLY REMOVED TO FACILITATE THE INSTALLATION OF NEW ROOF. THIS REQUIREMENT ONLY APPLIES TO SELECTIVE ITEMS OR EQUIPMENT THAT ARE PART OF A FUNCTIONAL SYSTEM FOR THE CURRENT USE AND OPERATIONS OF THE BUILDING.

Revision table with columns: NO., DATE, DSGN, DR, REVISION, CHK, APVD, BY, APVD. Includes names M. Johnson, M. Kussler, D. Richardson, Jr.



Project Title: FILTER BUILDING ROOF RETROFIT & SITE IMPROVEMENTS
Drawing Title: ROOF PLAN - OVERALL (NEW)
Date: 07/08/2022
Proj. No.: D3237903
Drawing No.: FL-A-202



1 ROOF PLAN - NEW
1/8" = 1'-0"

DOWNSPOUT & GUTTER SIZING :

- CLIMATE ZONE: 2A
RAINFALL INTENSITY: USE 4.5 IN/HR. MINIMUM PER FLORIDA PLUMBING CODE
NOTE: CALCULATIONS BELOW ARE BASE UPON SMACNA CALCULATOR USING RAINFALL WIZARD FOR 100 YR STORM IN TAMPA, FL = 10.8 IN/HR.
RAINFALL DESIGN AREA (SQ FT): 6.685
AREA OF LARGEST ROOF AREA SERVING A SINGLE GUTTER SYSTEM
GUTTER IN LINEAL FT: 154
LENGTH AT LARGEST ROOF SERVING A SINGLE GUTTER SYSTEM
GUTTER LENGTH SERVING SINGLE DS (FT): 39 (MAX) EQUALLY SPACED
GUTTER GEOMETRY: RECTANGULAR WITH DEPTH / WIDTH RATIO OF 0.75
MINIMUM GUTTER WIDTH (IN): 7.5
PROVIDED GUTTER WIDTH (IN): 10
MINIMUM GUTTER DEPTH (IN): 6
PROVIDED GUTTER DEPTH (IN): 7.5
DOWNSPOUT GEOMETRY: RECTANGULAR
MINIMUM NUMBER OF DOWNSPOUTS: 4
PROVIDE NUMBER OF DOWNSPOUTS: 4
MINIMUM AREA PER DOWNSPOUT (SQ IN): 15.19
MINIMUM DOWNSPOUT SIZE (IN): 3.75 X 4.75 PER TABLE 1-3, PG 1.4 SMACNA ASMM
PROVIDED DOWNSPOUT SIZE (IN): 6 X 6

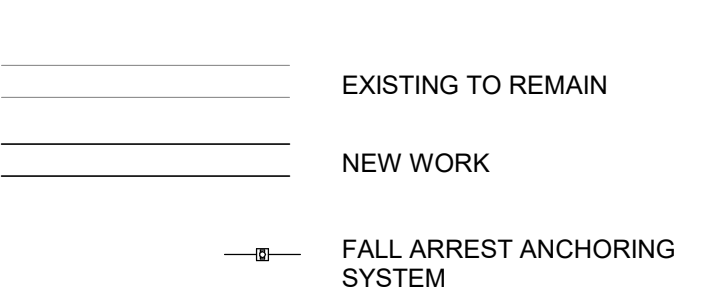
CATEGORY RISK / WIND SPEED :

- THIS PROJECT IS LOCATED IN A HIGH-VELOCITY HURRICANE ZONE, AND THE ROOF DESIGN SHALL BE BASED ON THE FBC 2020 7TH EDITION:
A. RISK CATEGORY (FBC TABLE 1604.5): IV - WATER STORAGE FACILITIES AND PUMPS STRUCTURES REQUIRED TO MAINTAIN WATER PRESSURE FOR FIRE SUPPRESSION.
B. ULTIMATE DESIGN WIND SPEED (FBC 2020 7TH EDITION FIGURE 1609.3 [3]; ASCE/SEI 7-16): 153 VMPH, 3-SECOND GUST AT 33 FT ABV GROUND FOR EXPOSURE 'C' CATEGORY.

TYPICAL ROOF ASSEMBLY :

- NON-RATED ROOF ASSEMBLY
3 PLY SBS MODIFIED BITUMEN ROOFING MEMBRANE ON 1/2" MOISTURE AND MOLD RESISTANT GYPSUM ROOF BOARD ON 1/4" PER FOOT SLOPE TAPERED AND FLAT RIGID INSULATION, WITH NO MAXIMUM TOTAL HEIGHT OF BOTH INSULATIONS; ROOF ASSEMBLY PARTIALLY ON HOLLOW CORE CONCRETE PLANKS, AND PARTIALLY ON EXISTING CONCRETE ROOF SLAB.
REFER TO TYPICAL ROOF ASSEMBLY AND COUNTER FLASHING DETAILS ON ARCHITECTURAL SHEETS FL-A-501, & FL-A-502.

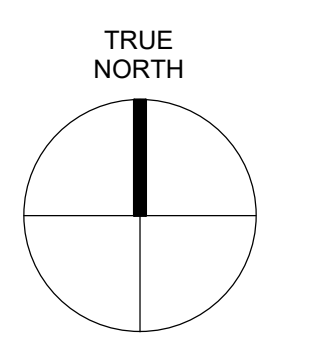
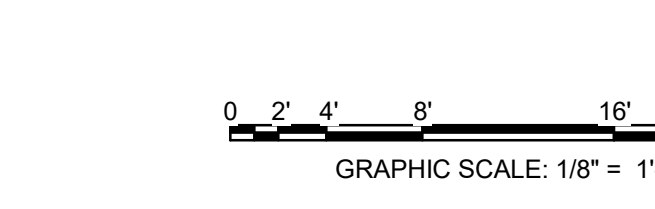
LEGEND :

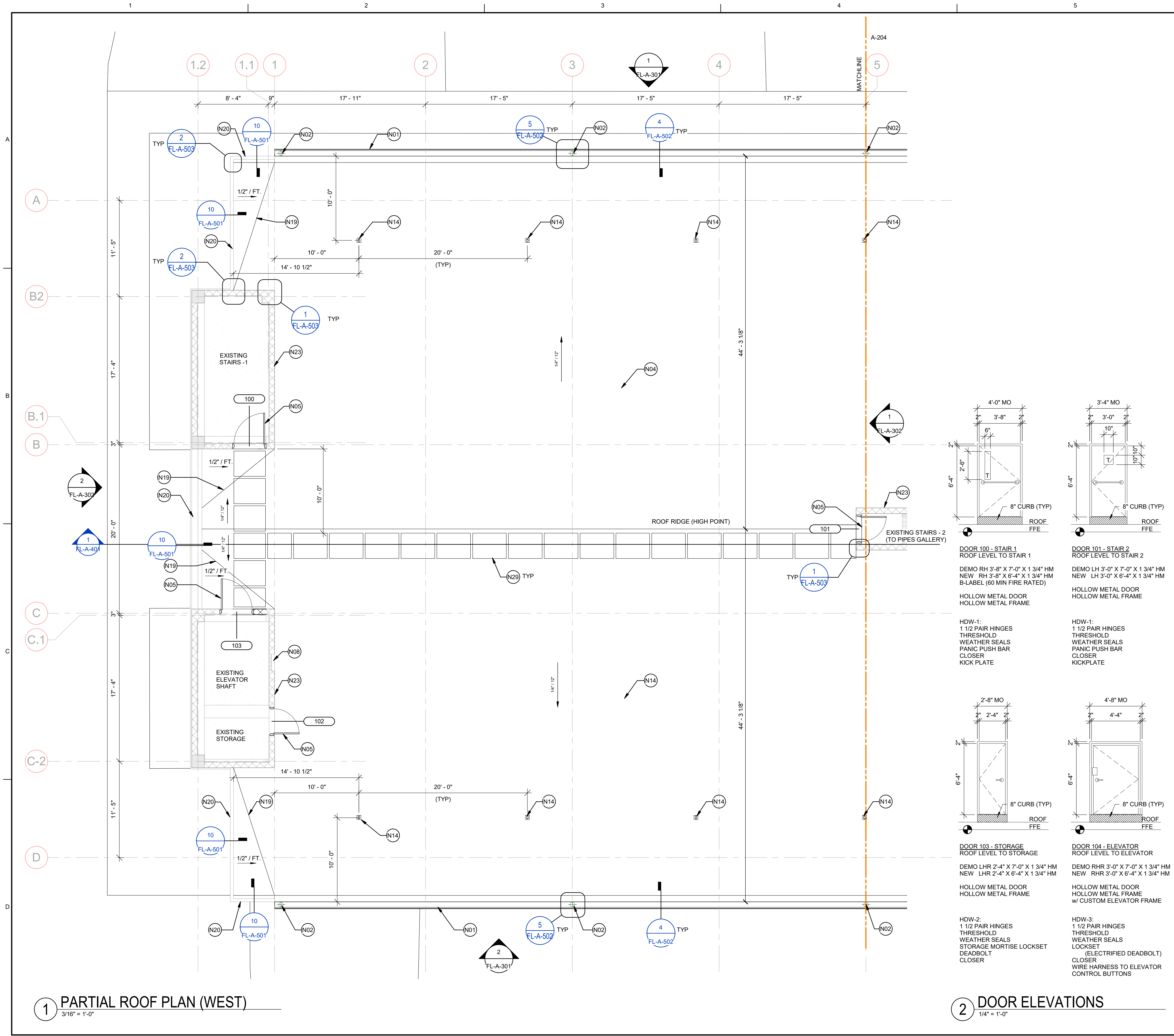


KEY NOTES :

- N01 10" W X 7-1/2"D PREFINISHED AND SEAMLESS ALUMINUM GUTTER (MED BRONZE). REFER TO DWG FL-A-202 "DOWNSPOUT AND GUTTER SIZING" NOTE.
N02 6" X 6" PREFINISHED DOWNSPOUT CONNECTED TO STORM SEWER SYSTEM. MATERIAL AND FINISH TO MATCH NEW GUTTERS. REFER TO CIVIL PLANS FOR UNDERGROUND CONNECTION.
N04 SBS ROOFING MEMBRANE (WHITE), SLOPED @ 1/4" / FT. (UNO) REFER TO DWG FL-A-202 "TYPICAL ROOF ASSEMBLY" NOTE.
N09 NEW PREFINISHED COPING ON NEW 56" H. CMU PARAPET WALL, PAINTED STUCCO. FOR COPING DETAILS REFER TO 1 & 2 / FL-A-501.
N14 FALL ARREST ANCHOR AND CABLE SYSTEM, REFER TO DETAIL 2 / FL-A-502 - TYP.
N29 ROOF WALKWAY PAD, GLUE DOWN INSTALLATION, 3' X 4' AND 3/4" THICK MADE OF 100% RECYCLED RUBBER.

GRAPHIC SCALE





1 PARTIAL ROOF PLAN (WEST)
3/16" = 1'-0"

2 DOOR ELEVATIONS
1/4" = 1'-0"

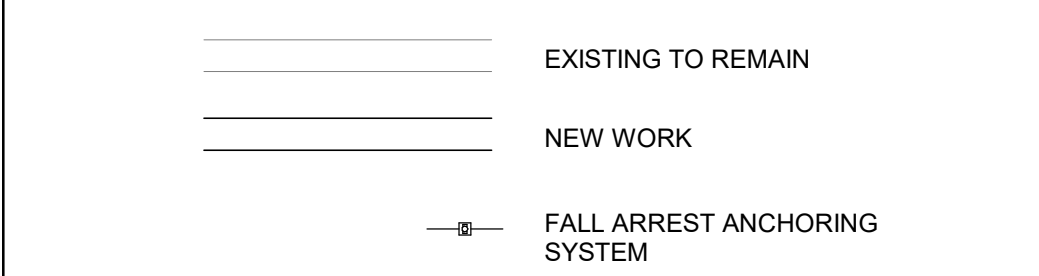
ROOF PLAN NOTES

- REFER TO OVERALL ROOF PLAN DRAWING FL-A-202 FOR GENERAL ROOF NOTES
- SUB-CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS. SUB-CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES FOUND CONTRARY TO THE INFORMATION SHOWN ON THE DRAWINGS AND SPECIFICATIONS.
- SUB-CONTRACTOR TO PROVIDE ALL MATERIALS INDICATED AND REQUIRED TO PROVIDE A COMPLETE WATERTIGHT SLOPED HOLLOW CORE CONCRETE PANELS (HCCP) AND ROOF MEMBRANE SYSTEM.
- SUB-CONTRACTOR SHALL COOPERATE WITH OWNER'S NEEDS AND ACCOMMODATE OWNER'S SCHEDULE FOR REPAIR OR DEMOLITION WORK OF ADJACENT EQUIPMENT.
- FLASH NEW MEMBRANE TO EXISTING CONSTRUCTION AND EQUIPMENT PER ROOFING SYSTEM AS PER INDICATED ROOF DETAILS, MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS TO ACHIEVE A WATERTIGHT WARRANTED INSTALLATION.
- MEMBRANE INSTALLATION SHALL MEET CODE REQUIRED UPLIFT RESISTANCE FOR COMPLIANCE WITH FM AND HAVE FLORIDA PRODUCT NOs FOR ROOF SYSTEM COMPONENT PRODUCTS FOR LOCATION OF PROJECT.
- PROTECT BUILDING SURROUNDINGS, FACADE, AND ANY ADJACENT EQUIPMENT FROM DAMAGE RESULTING FROM THE WORK OF THIS PROJECT.
- SUB-CONTRACTOR SHALL REMOVE ALL ITEMS AND EQUIPMENT TO FACILITATE THE INSTALLATION OF THE NEW ROOF. ITEMS OR EQUIPMENT THAT ARE PART OF A FUNCTIONAL LIVE SYSTEM FOR THE CURRENT USE AND OPERATIONS OF THE BUILDING SHALL BE REMOVED, TEMPORARILY CAPPED OR DEACTIVATED, STORED AND REINSTALLED UPON THE COMPLETION OF THE NEW WORK.
- THE ENTIRE ROOF AREA IS NOT ACCESSIBLE TO THE GENERAL PUBLIC AND HAS AN OCCUPANT LOAD LESS THAN 50.
- THE MISCELLANEOUS ROOFTOP WATER PIPING TO BE REMOVED, SHALL BE CUT AND CAPPED INSIDE THE PIPE GALLERY, AND REMOVED ABOVE THE ROOF.

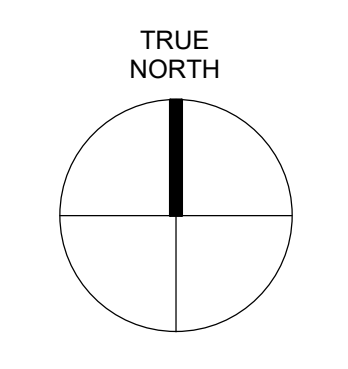
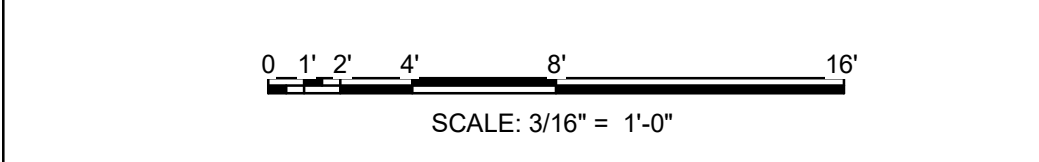
KEY NOTES:

- N01 10" W X 7-1/2"D PREFINISHED AND SEAMLESS ALUMINUM GUTTER (MED BRONZE). REFER TO DWG FL-A-202 "DOWNSPOUT AND GUTTER SIZING" NOTE.
- N02 6" X 6" PREFINISHED DOWNSPOUT CONNECTED TO STORM SEWER SYSTEM. MATERIAL AND FINISH TO MATCH NEW GUTTERS. REFER TO CIVIL PLANS FOR UNDERGROUND CONNECTION.
- N04 SBS ROOFING MEMBRANE (WHITE), SLOPED @ 1/4" / FT. (UNO) REFER TO DWG FL-A-202 "TYPICAL ROOF ASSEMBLY" NOTE.
- N05 NEW PAINTED HM DOOR AND FRAME INSTALLED 8" HIGHER THAN PREVIOUSLY INSTALLED EXISTING DOOR. INFILL BEHIND DOOR THRESHOLD WITH 6" C.I.P. CONCRETE CURB, AND 6"x8" CMU LINTEL AT THE DOOR HEAD. REFER TO DETAIL 3 / FL-A-503.
- N08 PAINT EXISTING LOUVER INTERIOR AND EXTERIOR SIDES.
- N14 FALL ARREST ANCHOR AND CABLE SYSTEM, REFER TO DETAIL 2 / FL-A-502 - TYP.
- N19 ROOF CRICKET, SLOPE = 1/2" PER FT
- N20 NEW PREFINISHED COPING ON EXISTING PARAPET WALL. REFER TO DETAILS 1 & 2 / A-501
- N23 REFER TO "BUILDING EXTERIOR NOTES".
- N29 ROOF WALKWAY PAD, GLUE DOWN INSTALLATION, 3' X 4' AND 3/4" THICK MADE OF 100% RECYCLED RUBBER.

LEGEND



GRAPHIC SCALE



Jacobs

5401 W. KENNEDY BLVD.
STE 300 & 900
Tampa, FL 33609
P:(813) 282-3500
www.jacobs.com

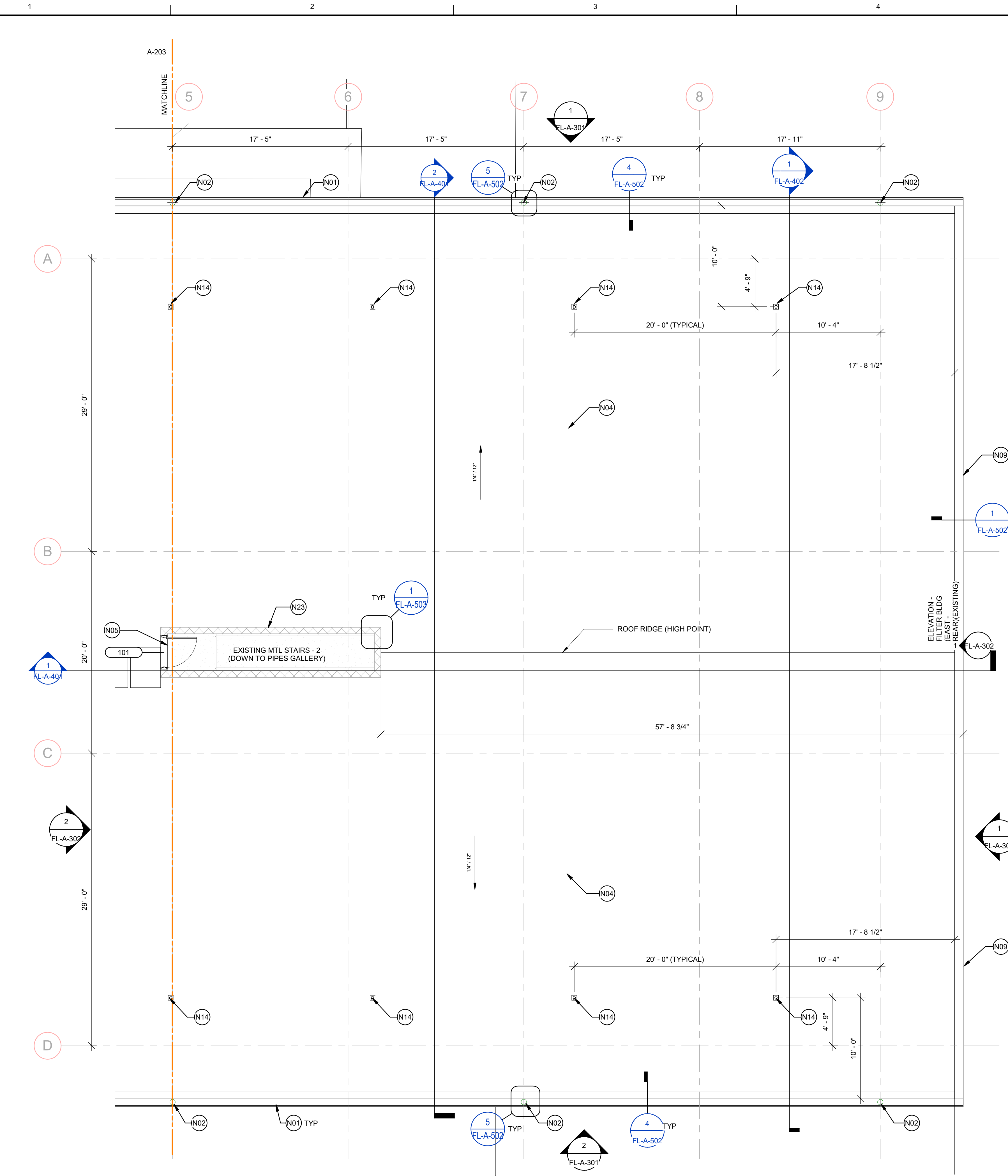
NO.	DATE	DSGN	DR	REVISION	CHK	BY	AP/VD

City of Tampa
Florida

Project Title: **FILTER BUILDING ROOF RETROFIT & SITE IMPROVEMENTS**
Drawing Title: **PARTIAL ROOF PLAN (WEST)**

Date: 07/08/2022
Proj. No.: D3237903
Drawing No.: FL-A-203

100% CD SET



1 PARTIAL ROOF PLAN (EAST)
3/16" = 1'-0"

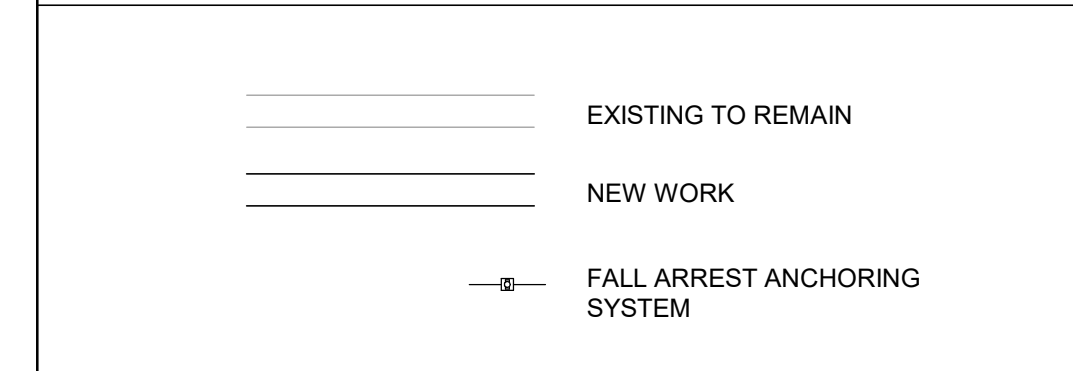
ROOF PLAN NOTES

- REFER TO OVERALL ROOF PLAN DRAWING FL-A-202 FOR GENERAL ROOF NOTES
- SUB-CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS. SUB-CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES FOUND CONTRARY TO THE INFORMATION SHOWN ON THE DRAWINGS AND SPECIFICATIONS.
- SUB-CONTRACTOR TO PROVIDE ALL MATERIALS INDICATED AND REQUIRED TO PROVIDE A COMPLETE WATERTIGHT SLOPED HOLLOW CORE CONCRETE PANELS (HCCP) AND ROOF MEMBRANE SYSTEM.
- SUB-CONTRACTOR SHALL COOPERATE WITH OWNER'S NEEDS AND ACCOMMODATE OWNER'S SCHEDULE FOR REPAIR OR DEMOLITION WORK OF ADJACENT EQUIPMENT.
- FLASH NEW MEMBRANE TO EXISTING CONSTRUCTION AND EQUIPMENT PER ROOFING SYSTEM AS PER INDICATED ROOF DETAILS, MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS TO ACHIEVE A WATERTIGHT WARRANTED INSTALLATION.
- MEMBRANE INSTALLATION SHALL MEET CODE REQUIRED UPLIFT RESISTANCE FOR COMPLIANCE WITH FM AND HAVE FLORIDA PRODUCT NOs FOR ROOF SYSTEM COMPONENT PRODUCTS FOR LOCATION OF PROJECT.
- PROTECT BUILDING SURROUNDINGS, FACADE, AND ANY ADJACENT EQUIPMENT FROM DAMAGE RESULTING FROM THE WORK OF THIS PROJECT.
- SUB-CONTRACTOR SHALL REMOVE ALL ITEMS AND EQUIPMENT TO FACILITATE THE INSTALLATION OF THE NEW ROOF. ITEMS OR EQUIPMENT THAT ARE PART OF A FUNCTIONAL LIVE SYSTEM FOR THE CURRENT USE AND OPERATIONS OF THE BUILDING SHALL BE REMOVED, TEMPORARILY CAPPED OR DEACTIVATED, STORED AND REINSTALLED UPON THE COMPLETION OF THE NEW WORK.
- THE ENTIRE ROOF AREA IS NOT ACCESSIBLE TO THE GENERAL PUBLIC AND HAS AN OCCUPANT LOAD LESS THAN 50.
- THE MISCELLANEOUS ROOFTOP WATER PIPING TO BE REMOVED, SHALL BE CUT AND CAPPED INSIDE THE PIPE GALLERY, AND REMOVED ABOVE THE ROOF.

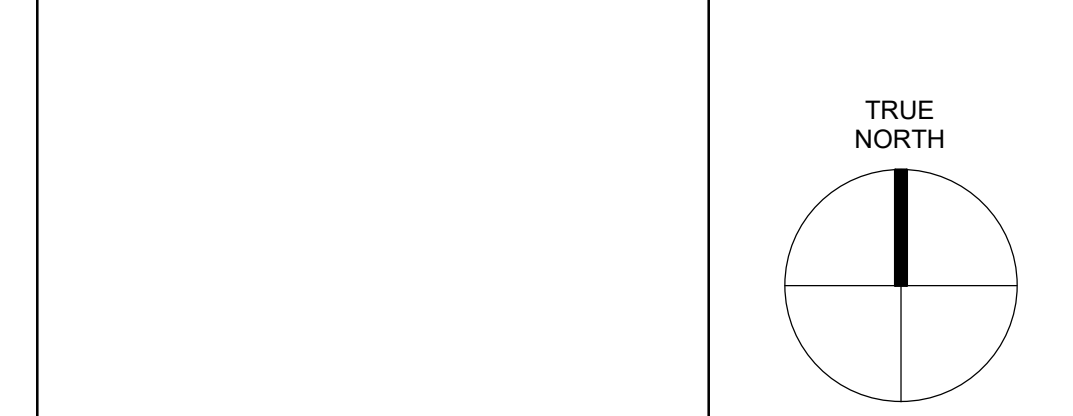
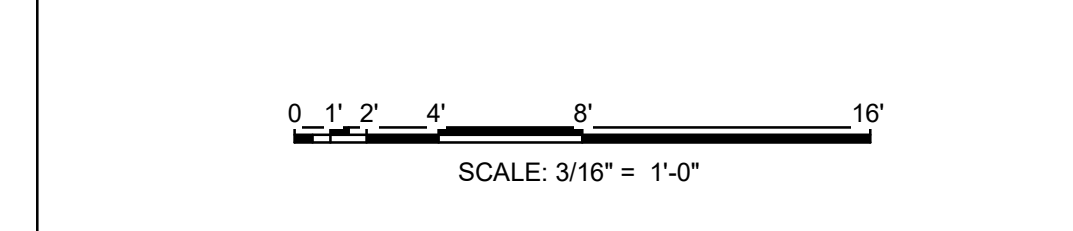
KEY NOTES:

- N01 10" W X 7-1/2"D PREFINISHED AND SEAMLESS ALUMINUM GUTTER (MED BRONZE). REFER TO DWG FL-A-202 "DOWNSPOUT AND GUTTER SIZING" NOTE.
- N02 6" X 6" PREFINISHED DOWNSPOUT CONNECTED TO STORM SEWER SYSTEM. MATERIAL AND FINISH TO MATCH NEW GUTTERS. REFER TO CIVIL PLANS FOR UNDERGROUND CONNECTION.
- N04 SBS ROOFING MEMBRANE (WHITE), SLOPED @ 1/4" / FT. (UNG) REFER TO DWG FL-A-202 "TYPICAL ROOF ASSEMBLY" NOTE.
- N05 NEW PAINTED HM DOOR AND FRAME INSTALLED 8" HIGHER THAN PREVIOUSLY INSTALLED EXISTING DOOR. INFILL BENEATH DOOR THRESHOLD WITH 8" X 8" C.I.P. CONCRETE CURB, AND 8"X8" CMU LINTEL AT THE DOOR HEAD. REFER TO DETAIL 3 / FL-A-503.
- N09 NEW PREFINISHED COPING ON NEW 56" H. CMU PARAPET WALL. PAINTED STUCCO. FOR COPING DETAILS REFER TO 1 & 2 / FL-A-501.
- N14 FALL ARREST ANCHOR AND CABLE SYSTEM, REFER TO DETAIL 2 / FL-A-502 - TYP.
- N23 REFER TO "BUILDING EXTERIOR NOTES".

LEGEND



GRAPHIC SCALE



Jacobs

5401 W. KENNEDY BLVD.
STE 300 & 900
Tampa, FL 33609
P:(813) 282-3500
www.jacobs.com

©Jacobs Engineering Group Inc. 2022 ALL RIGHTS RESERVED

NO.	DATE	DR	REVISION	CHK	BY	APVD

Project Title: **FILTER BUILDING ROOF RETROFIT & SITE IMPROVEMENTS**

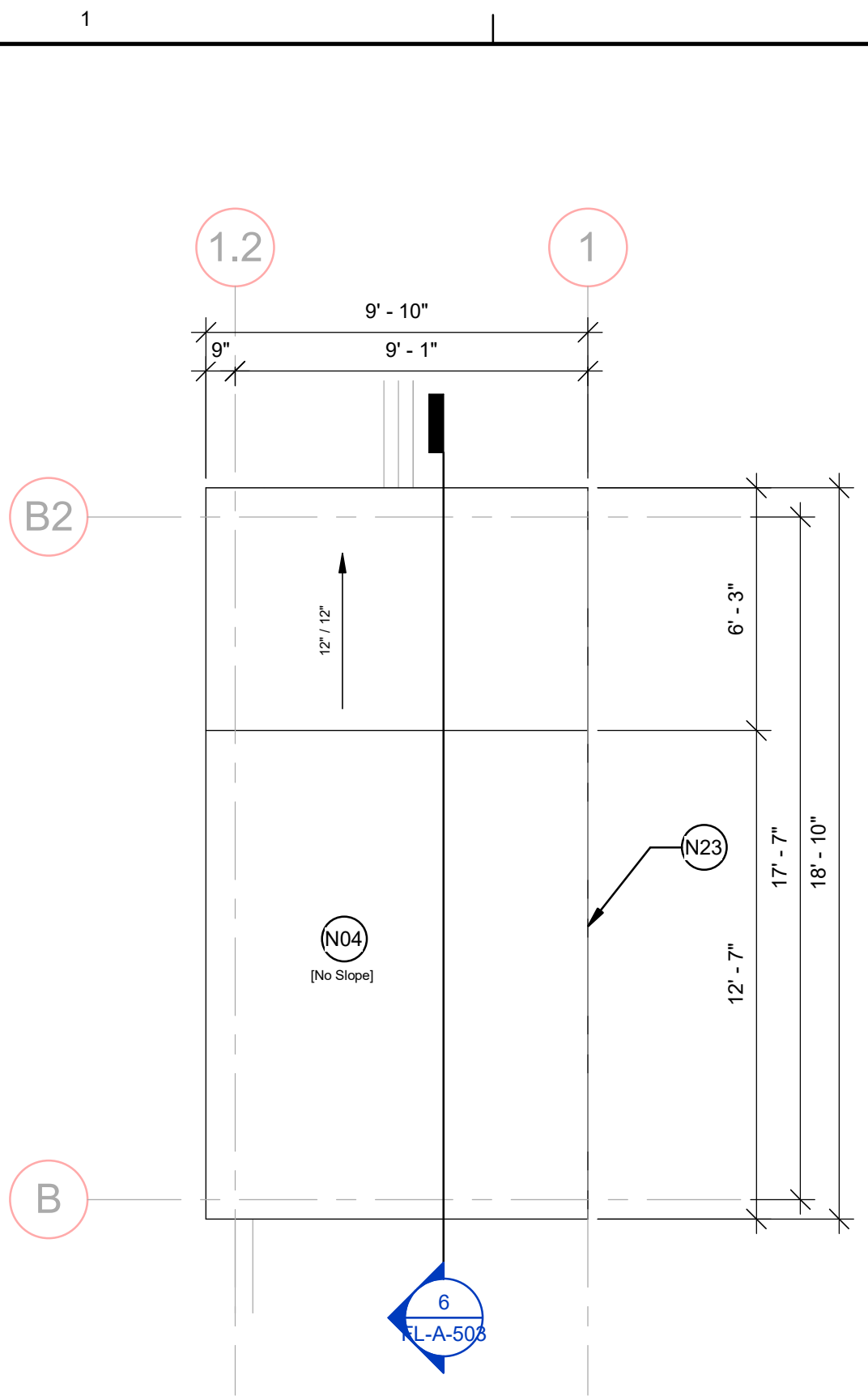
Drawing Title: **PARTIAL ROOF PLAN (EAST)**

Date: 07/08/2022

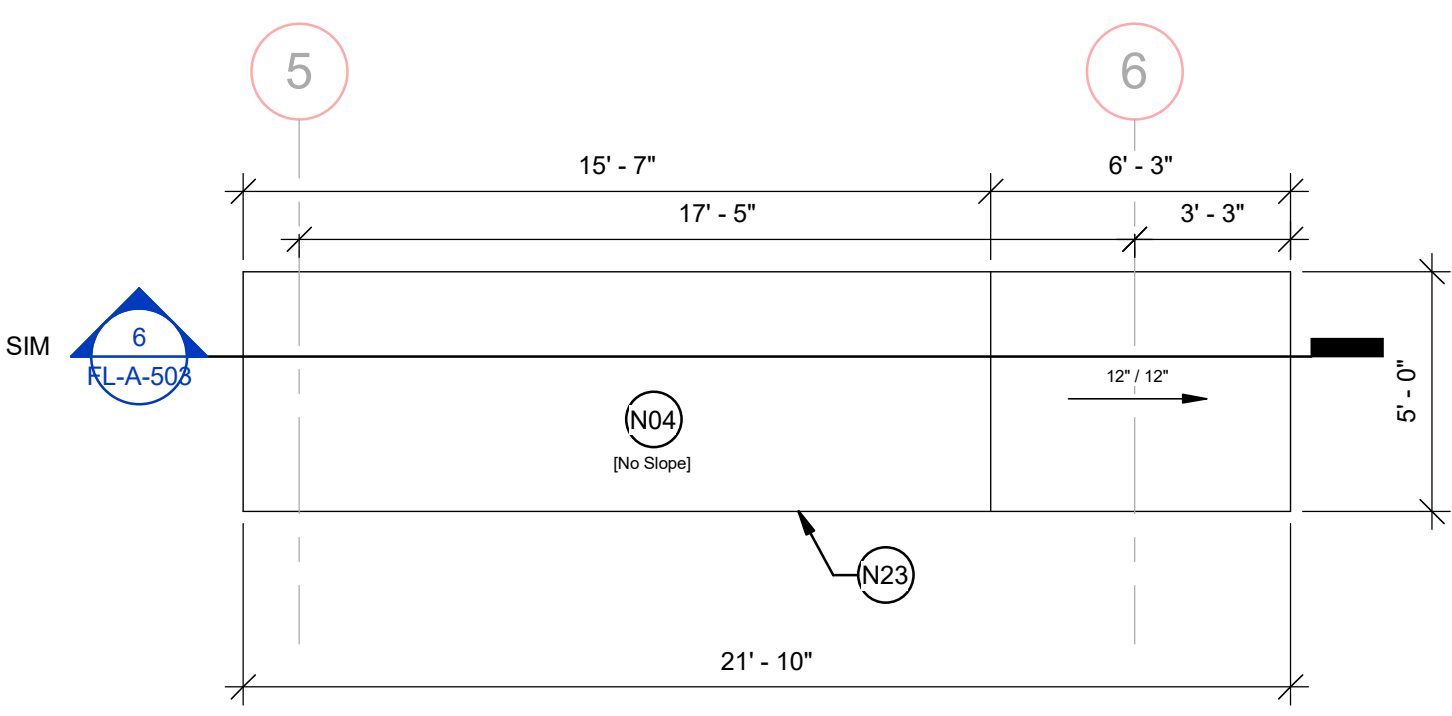
Proj. No.: D3237903

Drawing No.: **FL-A-204**

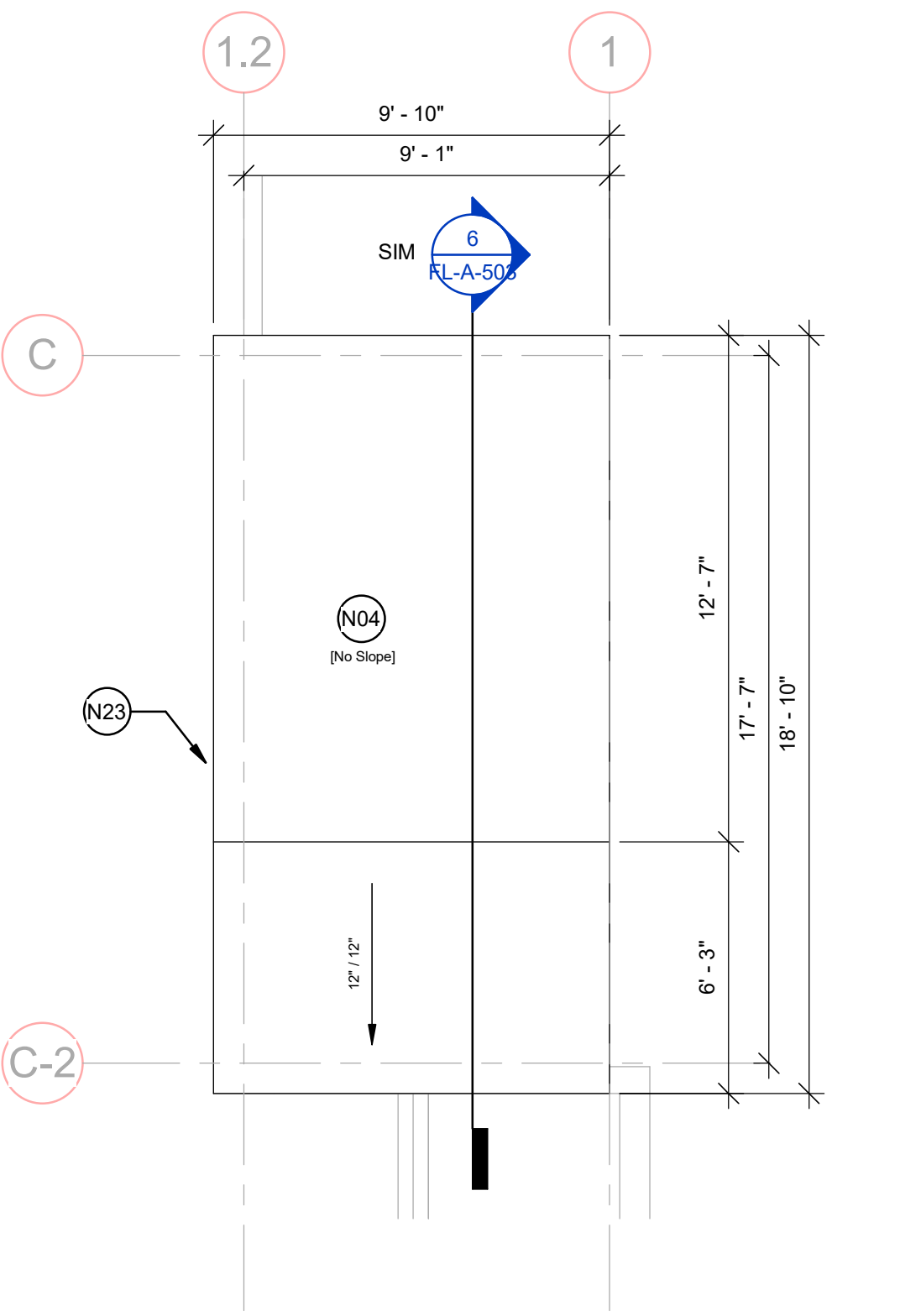
100% CD SET



1 EXIST'G STAIRS - 1 ROOF PLAN
1/4" = 1'-0"



2 EXIST'G STAIRS -2 ROOF PLAN
1/4" = 1'-0"



3 EXIST'G ELEVATOR SHAFT ROOF PLAN
1/4" = 1'-0"

ROOF PLAN NOTES

- REFER TO OVERALL ROOF PLAN DRAWING FL-A-202 FOR GENERAL ROOF NOTES
- SUB-CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS. SUBSUB-CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES FOUND CONTRARY TO THE INFORMATION SHOWN ON THE DRAWINGS AND SPECIFICATIONS.
- SUB-CONTRACTOR TO PROVIDE ALL MATERIALS INDICATED AND REQUIRED TO PROVIDE A COMPLETE WATERTIGHT SLOPED FOLLOW CORE CONCRETE PANELS (HCCP) AND ROOF MEMBRANE SYSTEM.
- SUB-CONTRACTOR SHALL COOPERATE WITH OWNER'S NEEDS AND ACCOMMODATE OWNER'S SCHEDULE FOR REPAIR OR DEMOLITION WORK OF ADJACENT EQUIPMENT.
- FLASH NEW MEMBRANE TO EXISTING CONSTRUCTION AND EQUIPMENT PER ROOFING SYSTEM AS PER INDICATED ROOF DETAILS, MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS TO ACHIEVE A WATERTIGHT WARRANTED INSTALLATION.
- MEMBRANE INSTALLATION SHALL MEET CODE REQUIRED UPLIFT RESISTANCE FOR COMPLIANCE WITH FM AND HAVE FLORIDA PRODUCT NOAs FOR ROOF SYSTEM COMPONENT PRODUCTS FOR LOCATION OF PROJECT.
- PROTECT BUILDING SURROUNDINGS, FACADE, AND ANY ADJACENT EQUIPMENT FROM DAMAGE RESULTING FROM THE WORK OF THIS PROJECT.
- SUB-CONTRACTOR SHALL REMOVE ALL ITEMS AND EQUIPMENT TO FACILITATE THE INSTALLATION OF THE NEW ROOF. ITEMS OR EQUIPMENT THAT ARE PART OF A FUNCTIONAL LIVE SYSTEM FOR THE CURRENT USE AND OPERATIONS OF THE BUILDING SHALL BE REMOVED, TEMPORARILY CAPPED OR DEACTIVATED, STORED AND REINSTALLED UPON THE COMPLETION OF THE NEW WORK.
- THE ENTIRE ROOF AREA IS NOT ACCESSIBLE TO THE GENERAL PUBLIC AND HAS AN OCCUPANT LOAD LESS THAN 50.
- THE MISCELLANEOUS ROOFTOP WATER PIPING TO BE REMOVED, SHALL BE CUT AND CAPPED INSIDE THE PIPE GALLERY, AND REMOVED ABOVE THE ROOF.

KEY NOTES:

- N04 SBS ROOFING MEMBRANE (WHITE), SLOPED @ 1/4" / FT. (UNO)
REFER TO DWG FL-A-202 "TYPICAL ROOF ASSEMBLY" NOTE.
N23 REFER TO "BUILDING EXTERIOR NOTES".

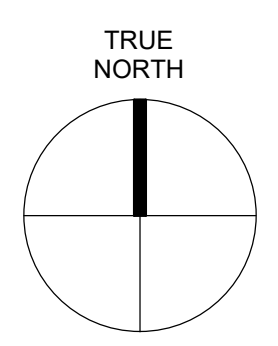
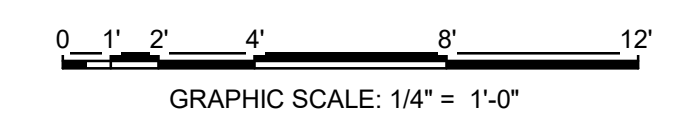


5401 W. KENNEDY BLVD.
STE 300 & 900
Tampa, FL 33609
P:(813) 282-3500
www.jacobs.com

NO.	DATE	DR	CHK	AP/VD
				M. Johnson
				M. Kussler
				D. Richardson, Jr.
				M. Johnson



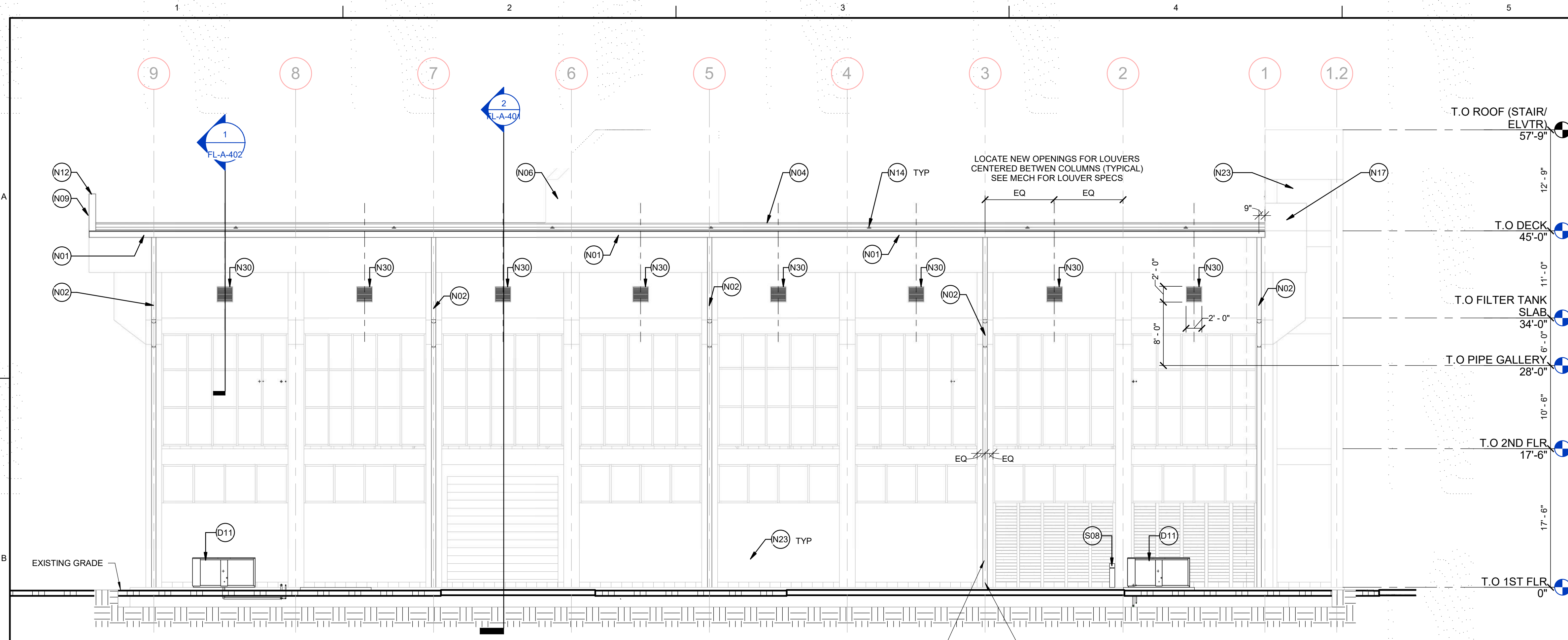
GRAPHIC SCALE



Project Title:
FILTER BUILDING ROOF RETROFIT &
SITE IMPROVEMENTS
Drawing Title:
ROOF PLANS - ENLARGED
STAIRS AND ELEVATOR
ENCLOSURE

Date: 07/08/2022
Proj. No.: D3237903
Drawing No.:

FL-A-205



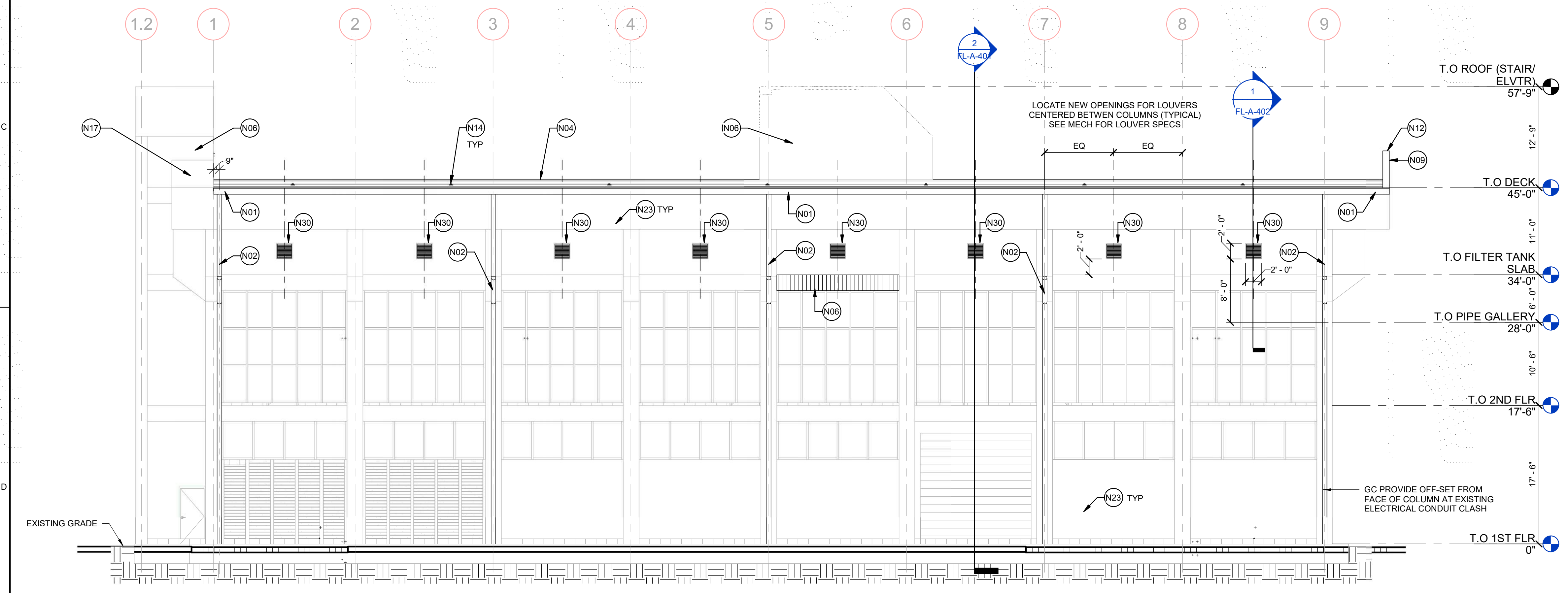
1 ELEVATION - NORTH EXTERIOR
1/8" = 1'-0"

LOCATE NEW OPENINGS FOR LOUVERS CENTERED BETWEEN COLUMNS (TYPICAL) SEE MECH FOR LOUVER SPECS

CENTER DOWNSPOUT LEADERS ON COLUMNS (TYPICAL)

PROVIDE CAST-IRON OFFSET DOWNSPOUT BOOT WITH TRANSITION FROM SQUARE TO ROUND PIPE BOD. J.R. HOE (OR APPROVED EQUAL) 6" X 6" X 24" LENGTH TO 90 DEGREE TRANSITION TO 6" DIAM (TYPICAL)

PVC ROUND PIPE TO EXTEND FROM CAST-IRON BOOT ACROSS TOP OF EXPOSED CONCRETE FOOTING THEN 90 DEGREE TURN-DOWN TO MEET BELOW GRADE DRAINAGE PIPES (SEE CIVIL)



2 ELEVATION - SOUTH EXTERIOR
1/8" = 1'-0"

GC PROVIDE OFF-SET FROM FACE OF COLUMN AT EXISTING ELECTRICAL CONDUIT CLASH

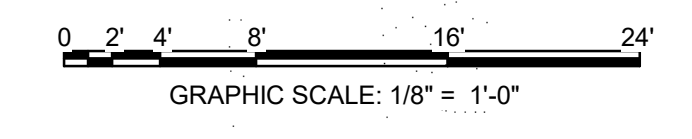
BUILDING EXTERIOR NOTES:

- EXTERIOR PAINTING:**
- PAINT THE ENTIRE BUILDING EXTERIOR, INCLUDING ALL EXTERIOR SURFACES OF STAIR CASES, ELEVATOR / EQUIPMENT ENCLOSURE, DOORS AND FRAMES SHALL BE PAINTED ON THE EXTERIOR AND INTERIOR SIDES. PAINT COLORS TO MATCH EXISTING.
 - THE NEW PAINT SHALL BE COMMERCIAL-GRADE EXTERIOR LATEX AND COMPATIBLE WITH THE EXISTING PAINT RESIN.
 - ALL PRODUCTS SHALL BE LOW VOLATILE ORGANIC COMPOUND AND WATER-BASED.
 - PRODUCTS CONTAINING LEAD ARE PROHIBITED.
 - PRIOR OF PAINTING THE SUB-CONTRACTOR SHALL CLEAN, PATCH, REPAIR AND SEAL ALL SURFACES AS NECESSARY TO RECEIVE NEW PAINT AND ENSURE WATER TIGHTNESS. APPLY A COAT OF APPROPRIATE PRIMER PRIOR TO APPLY THE FINISH COAT.
 - SUB-CONTRACTOR SHALL REMOVE AND REPLACE ALL SECONDARY CAULKING AND SEALANTS FOR EXTERIOR WINDOWS, CURTAIN WALLS, DOORS, LOUVERS AND FACADE COMPONENTS.
 - SUB-CONTRACTOR SHALL INSPECT, REPAIR, PREP AND PAINT AS REQUIRED. ALL EXISTING WALL PANELS, CONCRETE AND/OR STUCCO CRACKS / SPALLS.
 - SUB-CONTRACTOR SHALL REMOVE SELECT PORTIONS OF DAMAGED AND DETERIORATED HARD-COAT STUCCO OVER WIRE LATH AND PATCH TO NEW CONDITION.
 - ALL CRACKS IN EXISTING STUCCO TO BE CUT-BACK AND PATCHED BACK TO MATCH EXISTING.
 - ALL MISCELLANEOUS 'TAPCON' AND OTHER ASSORTED ABANDONED FASTENERS SHALL BE REMOVED FROM EXTERIOR STUCCO AND HOLES PATCHED TO MATCH EXISTING.

KEY NOTES:

- D11 EXISTING HVAC CONDENSER, REMOVE AND REINSTALL ON-GRADE. REFER TO MECH DWG FL-M-101.
- N01 10" W X 7-1/2" D PRE-FINISHED AND SEAMLESS ALUMINUM GUTTER (MED BRONZE). REFER TO DWG FL-A-202 'DOWNSPOUT AND GUTTER SIZING' NOTE.
- N02 6" X 6" PRE-FINISHED DOWNSPOUT CONNECTED TO STORM SEWER SYSTEM. MATERIAL AND FINISH TO MATCH NEW GUTTERS. REFER TO CIVIL PLANS FOR UNDERGROUND CONNECTION.
- N04 SBS ROOFING MEMBRANE (WHITE), SLOPED @ 1/4" / FT. (UNO) REFER TO DWG FL-A-202 'TYPICAL ROOF ASSEMBLY' NOTE.
- N06 REPLACE MISSING METAL PANEL OVER GALV FURRING TO MATCH EXISTING WITH MATCHING TRIM.
- N09 NEW PRE-FINISHED COPING ON NEW 56" H. CMU PARAPET WALL, PAINTED STUCCO. FOR COPING DETAILS REFER TO 1 & 2 / FL-A-501.
- N12 PRE-FINISHED ALUMINUM PARAPET COPING.
- N14 FALL ARREST ANCHOR AND CABLE SYSTEM, REFER TO DETAIL 2 / FL-A-502 - TYP.
- N17 EXISTING CONCRETE PARAPET WALL. REFER TO STRUCTURAL. REFER TO 'BUILDING EXTERIOR NOTES'.
- N30 NEW PRE-FINISHED 24" X 24" ALUM. LOUVER (DARK BRONZE) FOR ABANDONED FILTER BAY VENTILATION.
- S08 6" DIAM X 36" HGT PIPE BOLLARD GROUT SOLID, PAINTED 'SAFETY YELLOW'.

GRAPHIC SCALE



5401 W. KENNEDY BLVD.
STE 300 & 900
Tampa, FL 33609
P:(813) 282-3500
www.jacobs.com

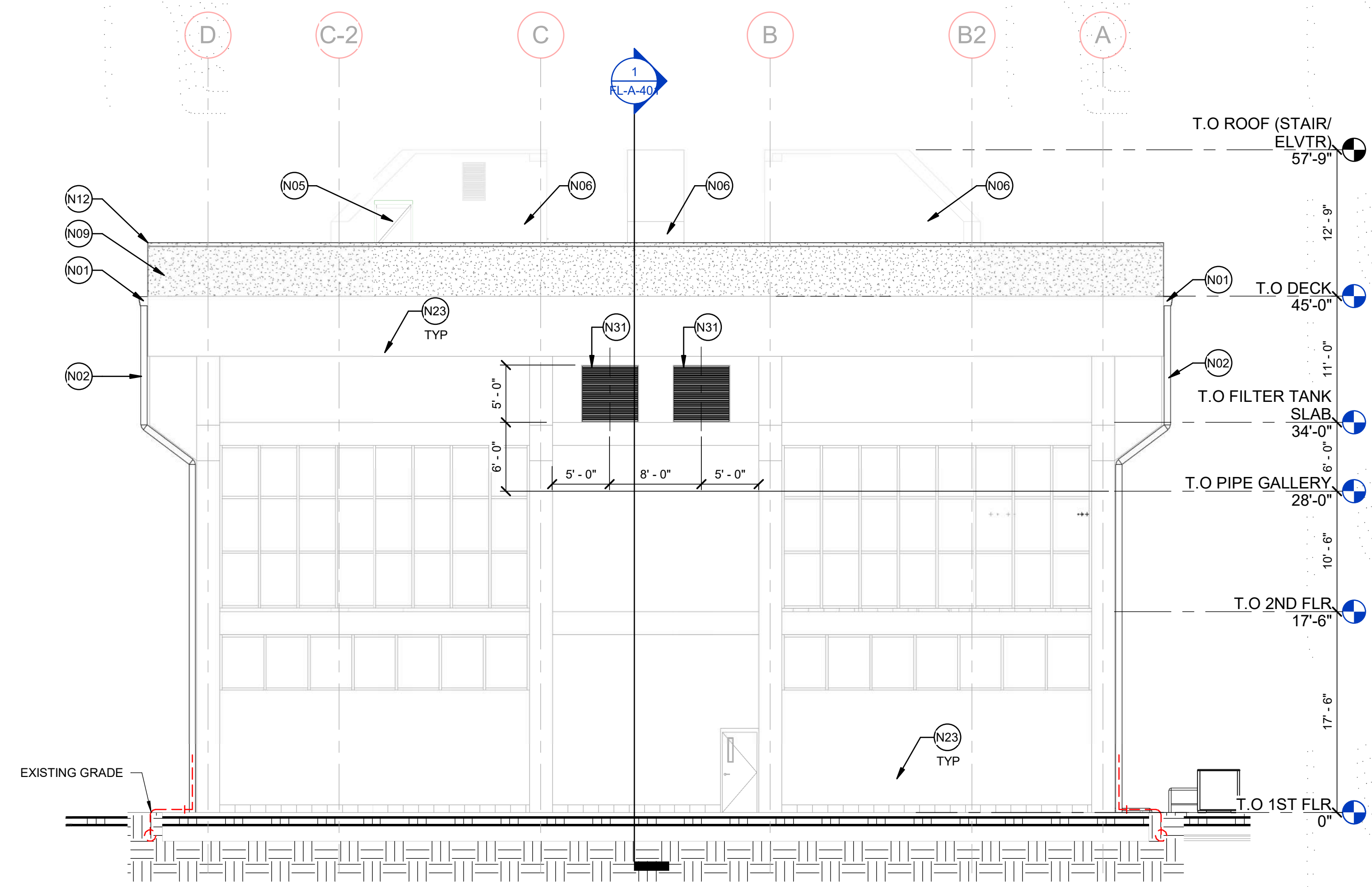
NO.	DATE	DSGN	DR	CHK	REVISION	BY	AP/D



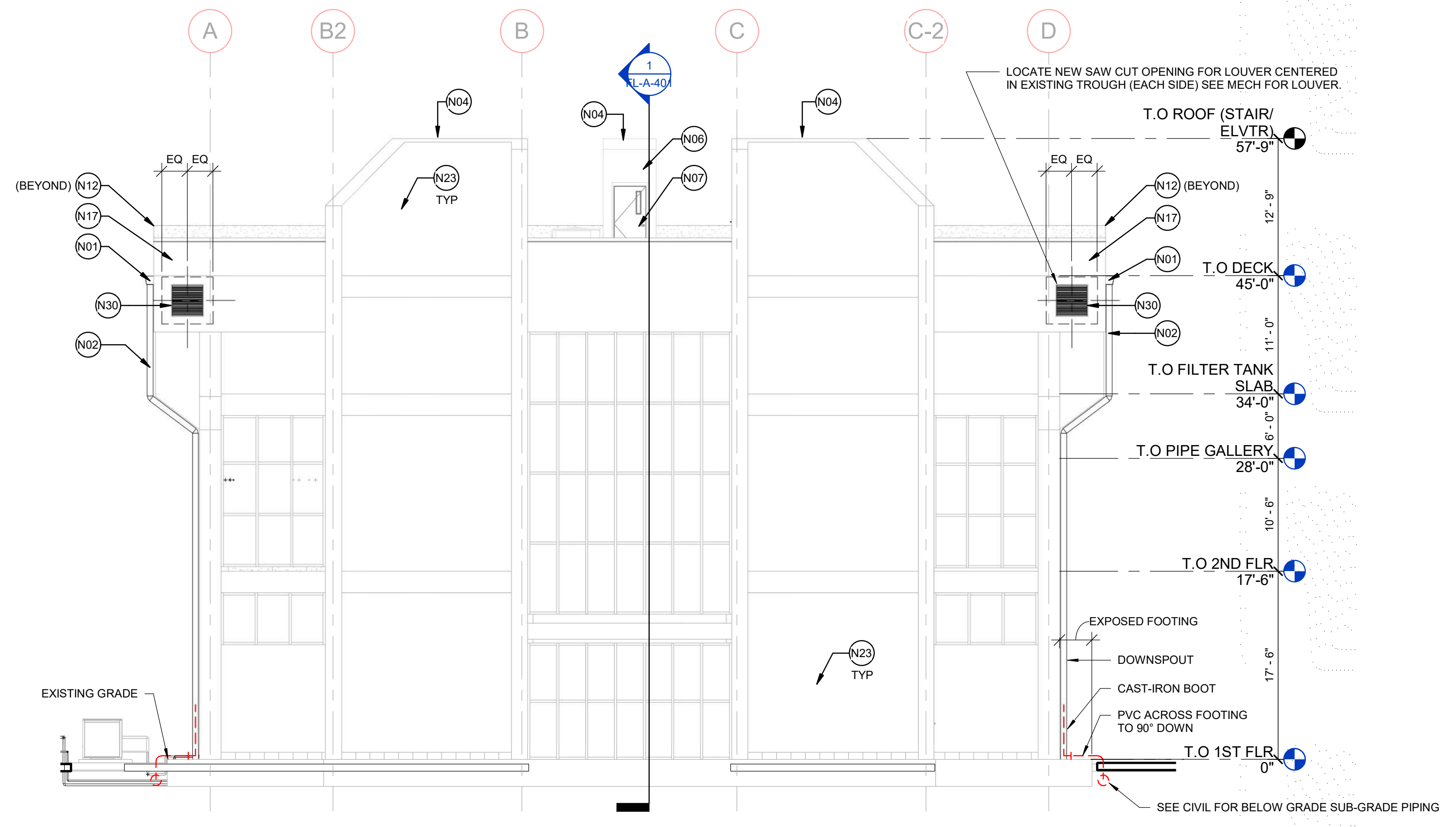
Project Title: FILTER BUILDING ROOF RETROFIT & SITE IMPROVEMENTS
Drawing Title: BUILDING ELEVATIONS - NORTH & SOUTH

Date: 07/08/2022
Proj. No.: D3237903
Drawing No.:

FL-A-301



1 ELEVATION - EAST EXTERIOR
1/8" = 1'-0"



2 ELEVATION - WEST EXTERIOR
1/8" = 1'-0"

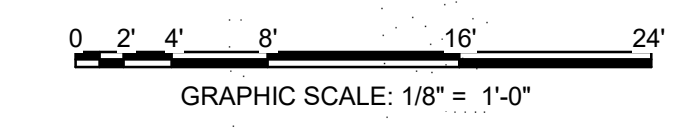
ELEVATION NOTES:

- EXTERIOR PAINTING:**
1. PAINT THE ENTIRE BUILDING EXTERIOR, INCLUDING ALL EXTERIOR SURFACES OF STAIR CASES, ELEVATOR / EQUIPMENT ENCLOSURE, DOORS AND FRAMES SHALL BE PAINTED ON THE EXTERIOR AND INTERIOR SIDES. PAINT COLORS TO MATCH EXISTING.
 2. THE NEW PAINT SHALL BE COMMERCIAL-GRADE EXTERIOR LATEX AND COMPATIBLE WITH THE EXISTING PAINT RESIN.
 3. ALL PRODUCTS SHALL BE LOW VOLATILE ORGANIC COMPOUND AND WATER-BASED.
 4. PRODUCTS CONTAINING LEAD ARE PROHIBITED.
 5. PRIOR OF PAINTING THE SUB-CONTRACTOR SHALL CLEAN, PATCH, REPAIR AND SEAL ALL SURFACES AS NECESSARY TO RECEIVE NEW PAINT AND ENSURE WATER TIGHTNESS. APPLY A COAT OF APPROPRIATE PRIMER PRIOR TO APPLY THE FINISH COAT.
 6. SUB-CONTRACTOR SHALL REMOVE AND REPLACE ALL SECONDARY CAULKING AND SEALANTS FOR EXTERIOR WINDOWS, CURTAIN WALLS, DOORS, LOUVERS AND FACADE COMPONENTS.
 7. SUB-CONTRACTOR SHALL INSPECT, REPAIR, PREP AND PAINT AS REQUIRED, ALL EXISTING WALL PANELS, CONCRETE AND/OR STUCCO CRACKS / SPALLS.
 8. SUB-CONTRACTOR SHALL REMOVE SELECT PORTIONS OF DAMAGED AND DETERIORATED HARD-COAT STUCCO OVER WIRE LATH AND PATCH TO NEW CONDITION.
 9. ALL CRACKS IN EXISTING STUCCO TO BE CUT-BACK AND PATCHED BACK TO MATCH EXISTING.
 10. ALL MISCELLANEOUS 'TAPCON' AND OTHER ASSORTED ABANDONED FASTENERS SHALL BE REMOVED FROM EXTERIOR STUCCO AND HOLES PATCHED TO MATCH EXISTING.

KEY NOTES:

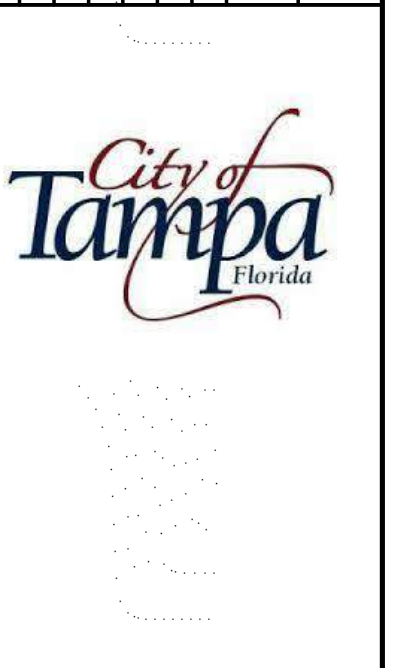
- N01 10" W X 7-1/2"D PREFINISHED AND SEAMLESS ALUMINUM GUTTER (MED BRONZE). REFER TO DWG FL-A-202 "DOWNSPOUT AND GUTTER SIZING" NOTE.
- N02 6" X 6" PREFINISHED DOWNSPOUT CONNECTED TO STORM SEWER SYSTEM. MATERIAL AND FINISH TO MATCH NEW GUTTERS. REFER TO CIVIL PLANS FOR UNDERGROUND CONNECTION.
- N04 SBS ROOFING MEMBRANE (WHITE), SLOPED @ 1/4" / FT. (UNO) REFER TO DWG FL-A-202 "TYPICAL ROOF ASSEMBLY" NOTE.
- N05 NEW PAINTED HM DOOR AND FRAME INSTALLED 8" HIGHER THAN PREVIOUSLY INSTALLED EXISTING DOOR. INFILL BENEATH DOOR THRESHOLD WITH 8" X 8" C.I.P. CONCRETE CURB, AND 5" X 8" CMU LINTEL AT THE DOOR HEAD. REFER TO DETAIL 3 / FL-A-503.
- N06 REPLACE MISSING METAL PANEL OVER GALV FURRING TO MATCH EXISTING WITH MATCHING TRIM.
- N07 PAINT EXISTING AND NEW HM DOOR AND FRAME, INTERIOR AND EXTERIOR SIDES.
- N09 NEW PREFINISHED COPING ON NEW 56" H. CMU PARAPET WALL. PAINTED STUCCO. FOR COPING DETAILS REFER TO 1 & 2 / FL-A-501.
- N12 PRE-FINISHED ALUMINUM PARAPET COPING.
- N17 EXISTING CONCRETE PARAPET WALL REFER TO STRUCTURAL.
- N23 REFER TO "BUILDING EXTERIOR NOTES".
- N30 NEW PRE-FINISHED 24" X 24" ALUM. LOUVER (DARK BRONZE) FOR ABANDONED FILTER BAY VENTILATION.
- N31 NEW PRE-FINISHED 60" X 60" ALUM. LOUVER WITH MOTOR OPERATED EXHAUST FAN FOR ABANDONED FILTER BAY / PIPE GALLERY VENTILATION.

GRAPHIC SCALE



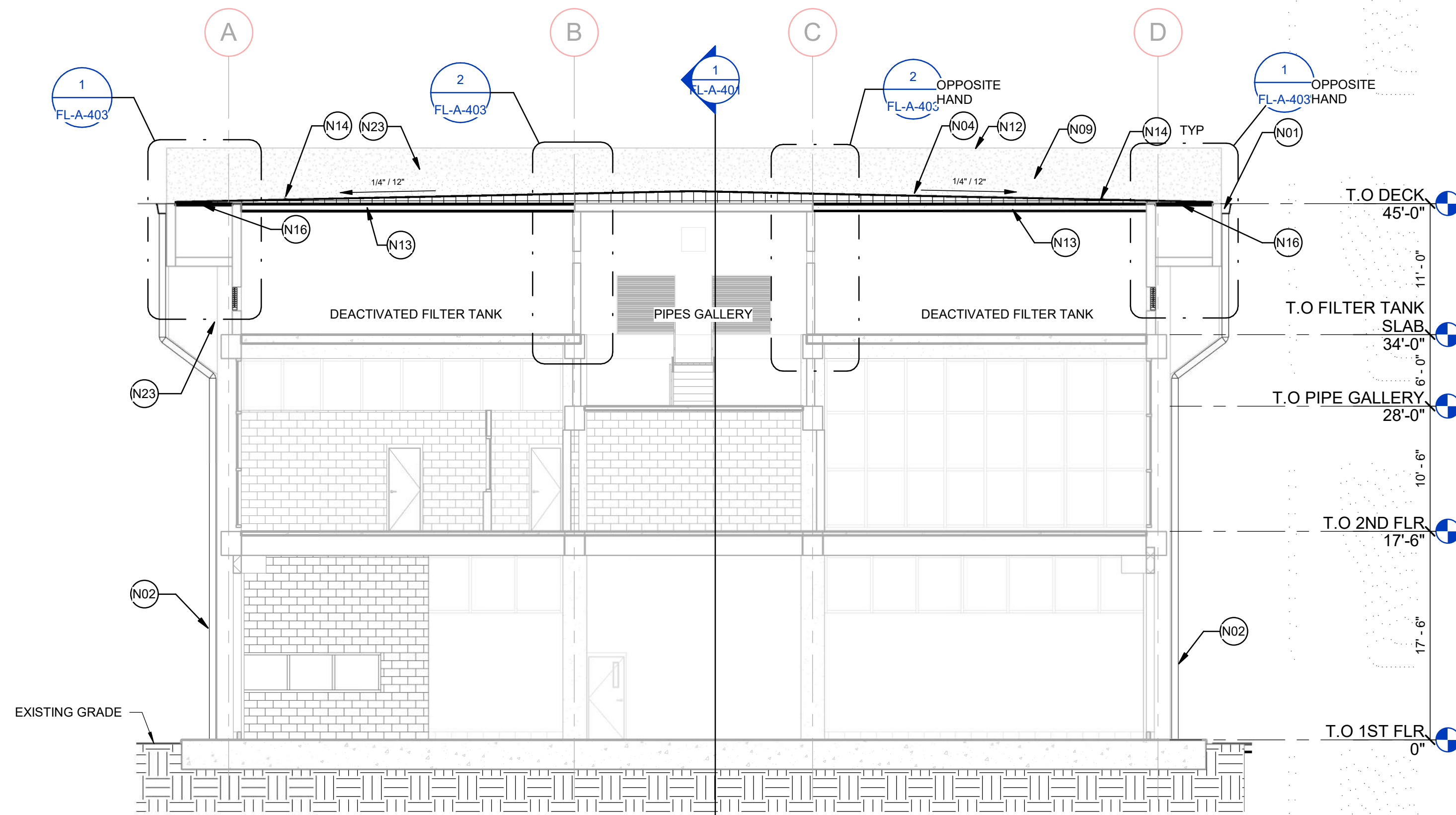
Jacobs
5401 W. KENNEDY BLVD.
STE 300 & 900
Tampa, FL 33609
P:(813) 282-3500
www.jacobs.com

NO.	DATE	DSGN	DR	REVISION	CHK	APVD
						M. Johnson
						M. Kussler
						D. Richardson, Jr.

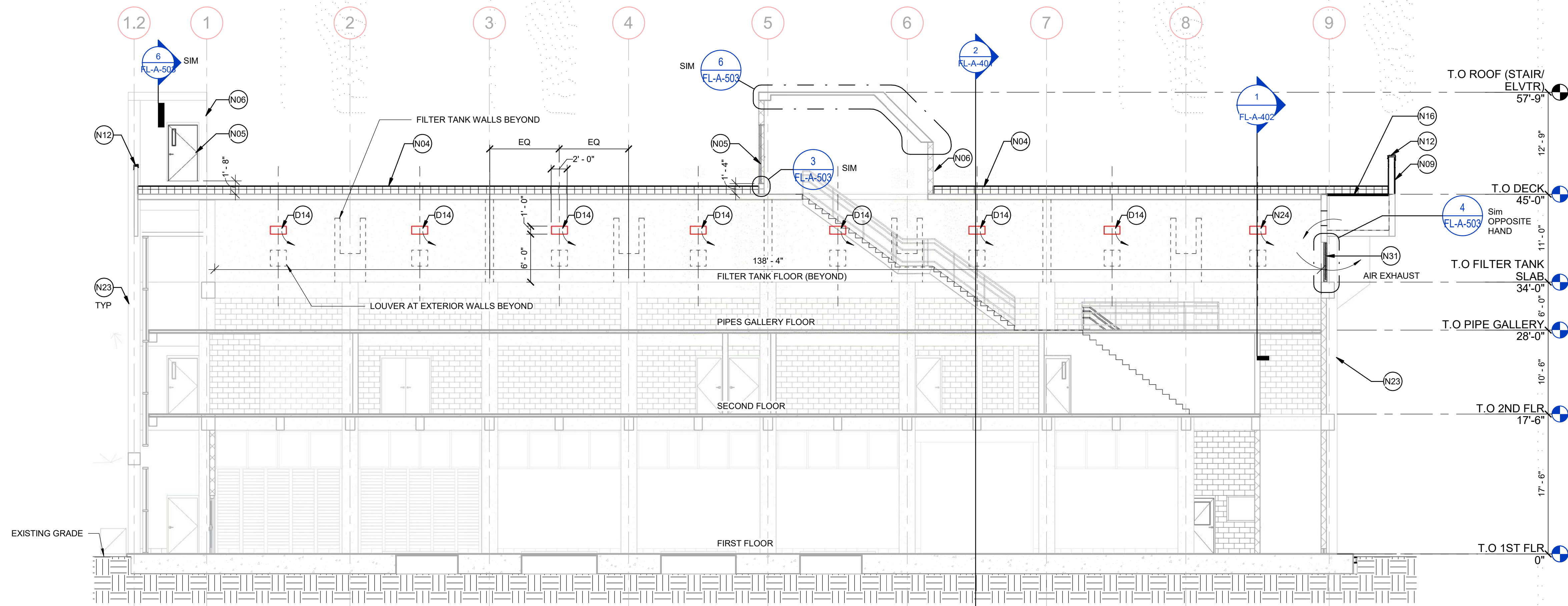


Project Title: **FILTER BUILDING ROOF RETROFIT & SITE IMPROVEMENTS**
Drawing Title: **BUILDING ELEVATIONS - EAST & WEST**

Date: 07/08/2022
Proj. No.: D3237903
Drawing No.: **FL-A-302**



2 BUILDING SECTION - TRANSVERSE LOOKING EAST
1/8" = 1'-0"



1 BUILDING SECTION - LONGITUDINAL LOOKING NORTH
1/8" = 1'-0"

SECTION NOTES

- FILTER TANK INTERNAL OPENING NOTES: SHOWN AS D14 THIS PLAN
- GC MAY PROVIDE OPTIONAL 24"x24" OPENING SIZE IN LIEU OF 24"x12" MINIMUM SIZE AS ILLUSTRATED.
 - GC SHALL FIELD COORDINATE NEW OPENING LOCATION INSIDE DECOMMISSIONED FILTER TANK TO AVOID INTERNAL PLUMBING PIPING, ELECTRICAL CONDUIT AND OTHER OBSTRUCTIONS LOCATED WITHIN THE PIPE GALLERY.
 - PROVIDE SIMILAR SIZE AND QUANTITY OF NEW OPENINGS ON OPPOSITE SIDE (REFLECTED VIEW) INSIDE PIPES GALLERY TO VENTILATE EACH DEACTIVATED FILTER TANK.
 - GC SHALL MAINTAIN SEQUENCE OF DEMOLITION TO PROVIDE DRAINAGE OF DECOMMISSIONED FILTER TANKS UNTIL AFTER NEW ROOF IS 'DRIED-IN'.
 - FOLLOWING ALL DEMOLITION AND NEW CONSTRUCTION, THE GC SHALL PROVIDE CLEAN INTERIOR OF PIPE GALLERY FREE OF CONSTRUCTION DUST AND DEBRIS INCLUDING BUT NOT LIMITED TO FLOOR, WALLS AND PIPING TO REMAIN.

KEY NOTES:

- D14 PROVIDE 24" X 12" SAW-CUT OPENING IN CONCRETE WALL AT ABANDONED FILTER TANKS, CENTERED IN EACH BAY ON BOTH WALLS OF PIPE GALLERY (16 REQ'D), COORDINATE LOCATION AND METHODS WITH EXISTING INTERIOR FILTER GALLERY PIPING.
- N01 10" W X 7-1/2"D PREFINISHED AND SEAMLESS ALUMINUM GUTTER (MED BRONZE). REFER TO DWG FL-A-202 "DOWNSPOUT AND GUTTER SIZING" NOTE.
- N02 6" X 6" PREFINISHED DOWNSPOUT CONNECTED TO STORM SEWER SYSTEM. MATERIAL AND FINISH TO MATCH NEW GUTTERS. REFER TO CIVIL PLANS FOR UNDERGROUND CONNECTION.
- N04 SBS ROOFING MEMBRANE (WHITE), SLOPED @ 1/4" / FT. (UNO) REFER TO DWG FL-A-202 "TYPICAL ROOF ASSEMBLY" NOTE.
- N05 NEW PAINTED HM DOOR AND FRAME INSTALLED 8" HIGHER THAN PREVIOUSLY INSTALLED EXISTING DOOR. INFILL BENEATH DOOR THRESHOLD WITH 8"X8" C.I.P. CONCRETE CURB, AND 8"X8" CMU LINTEL AT THE DOOR HEAD. REFER TO DETAIL 3 / FL-A-503.
- N06 REPLACE MISSING METAL PANEL OVER GALV FURRING TO MATCH EXISTING WITH MATCHING TRIM.
- N09 NEW PREFINISHED COPING ON NEW 56" H. CMU PARAPET WALL, PAINTED STUCCO. FOR COPING DETAILS REFER TO 1 & 2 / FL-A-501.
- N12 PRE-FINISHED ALUMINUM PARAPET COPING.
- N13 HOLLOW CORE CONCRETE PLANK, REFER TO STRUCTURAL.
- N14 FALL ARREST ANCHOR AND CABLE SYSTEM, REFER TO DETAIL 2 / FL-A-502 - TYP.
- N16 STRUCTURAL MTL DECK, REFER TO STRUCTURAL.
- N23 REFER TO "BUILDING EXTERIOR NOTES".
- N24 NEW PRE-FINISHED 18" X 18" ALUM. LOUVER ON BOTH WALLS OF PIPE GALLERY / ABANDONED FILTER TANKS, TOTAL OF 8, SPACED AS SHOWN, SIMILAR TO DETAIL 4&5 A-503, EXCEPT NON-IMPACT RESISTANT TYPE.
- N31 NEW PRE-FINISHED 60" X 60" ALUM. LOUVER WITH MOTOR OPERATED EXHAUST FAN FOR ABANDONED FILTER BAY / PIPE GALLERY VENTILATION.

GRAPHIC SCALE



5401 W. KENNEDY BLVD.
STE 300 & 900
Tampa, FL 33609
P:(813) 282-3500
www.jacobs.com

© Jacobs Engineering Group Inc. 2022 ALL RIGHTS RESERVED

NO.	DATE	DSGN	CHK	REVISION	BY	AP/VD



Project Title:
FILTER BUILDING ROOF RETROFIT & SITE IMPROVEMENTS

Drawing Title:
BUILDING SECTIONS

Date: 07/08/2022
Proj. No.: D3237903
Drawing No.:

FL-A-401

100% CD SET

Jacobs
 5401 W. KENNEDY BLVD.
 STE 300 & 900
 TAMPA, FL 33609
 P: (813) 282-3500
 www.jacobs.com

© Jacobs Engineering Group Inc. 2022 ALL RIGHTS RESERVED

SECTION NOTES

- FILTER TANK INTERNAL OPENING NOTES: SHOWN AS D14 THIS PLAN
- GC MAY PROVIDE OPTIONAL 24"x24" OPENING SIZE IN LIEU OF 24"x12" MINIMUM SIZE AS ILLUSTRATED.
 - GC SHALL FIELD COORDINATE NEW OPENING LOCATION INSIDE DECOMMISSIONED FILTER TANK TO AVOID INTERNAL PLUMBING PIPING, ELECTRICAL CONDUIT AND OTHER OBSTRUCTIONS LOCATED WITHIN THE PIPE GALLERY.
 - PROVIDE SIMILAR SIZE AND QUANTITY OF NEW OPENINGS ON OPPOSITE SIDE (REFLECTED VIEW) INSIDE PIPES GALLERY TO VENTILATE EACH DEACTIVATED FILTER TANK.
 - GC SHALL MAINTAIN SEQUENCE OF DEMOLITION TO PROVIDE DRAINAGE OF DECOMMISSIONED FILTER TANKS UNTIL AFTER NEW ROOF IS 'DRIED-IN'.
 - FOLLOWING ALL DEMOLITION AND NEW CONSTRUCTION, THE GC SHALL PROVIDE CLEAN INTERIOR OF PIPE GALLERY FREE OF CONSTRUCTION DUST AND DEBRIS INCLUDING BUT NOT LIMITED TO FLOOR, WALLS AND PIPING TO REMAIN.

KEY NOTES:

- D14 PROVIDE 24" X 12" SAW-CUT OPENING IN CONCRETE WALL AT ABANDONED FILTER TANKS, CENTERED IN EACH BAY ON BOTH WALLS OF PIPE GALLERY (16 REQ'D), COORDINATE LOCATION AND METHODS WITH EXISTING INTERIOR FILTER GALLERY PIPING.
- N30 NEW PRE-FINISHED 24" X 24" ALUM. LOUVER (DARK BRONZE) FOR ABANDONED FILTER BAY VENTILATION.
- N31 NEW PRE-FINISHED 60" X 60" ALUM. LOUVER WITH MOTOR OPERATED EXHAUST FAN FOR ABANDONED FILTER BAY / PIPE GALLERY VENTILATION.
- N35 NEW 24" X 24" OPENING IN WALL OF DEACTIVATED FLUME SPACE BEYOND.

NO.	DATE	DR	CHK	BY	APVD
				M. Johnson	
				M. Kussler	
				M. Johnson	
				M. Johnson	



GRAPHIC SCALE

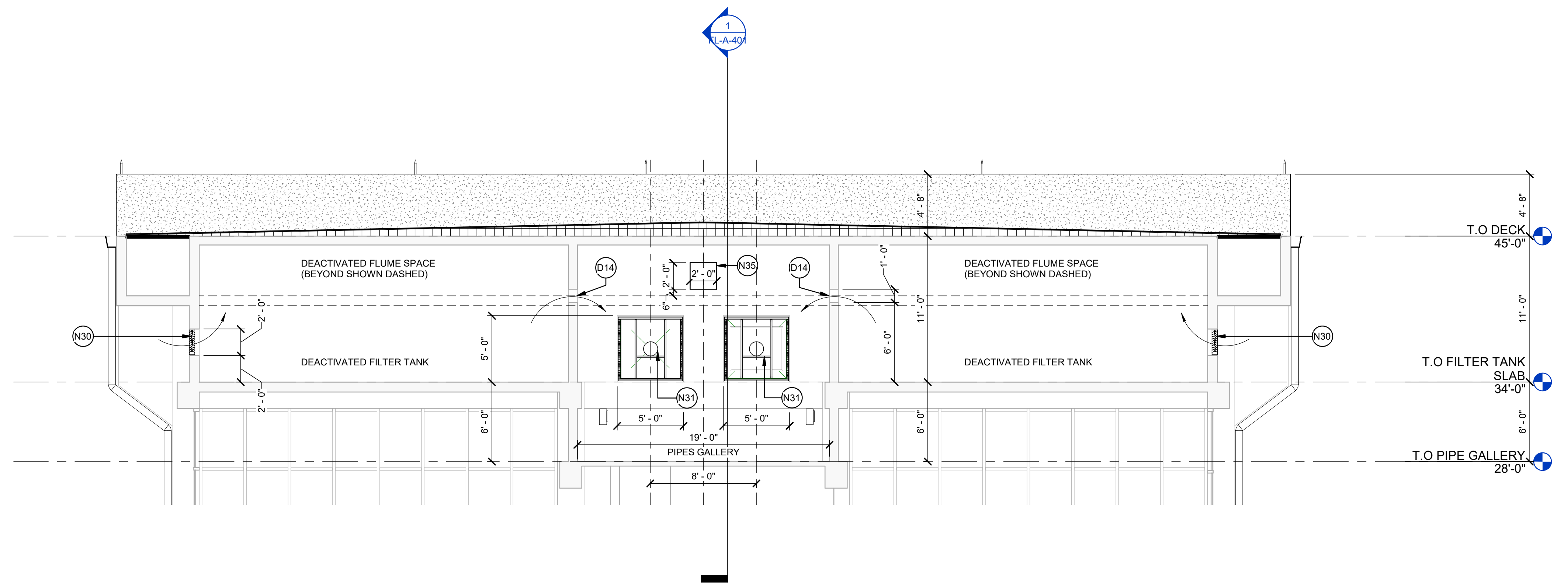


Project Title:
FILTER BUILDING ROOF RETROFIT & SITE IMPROVEMENTS
 Drawing Title:
BUILDING SECTIONS

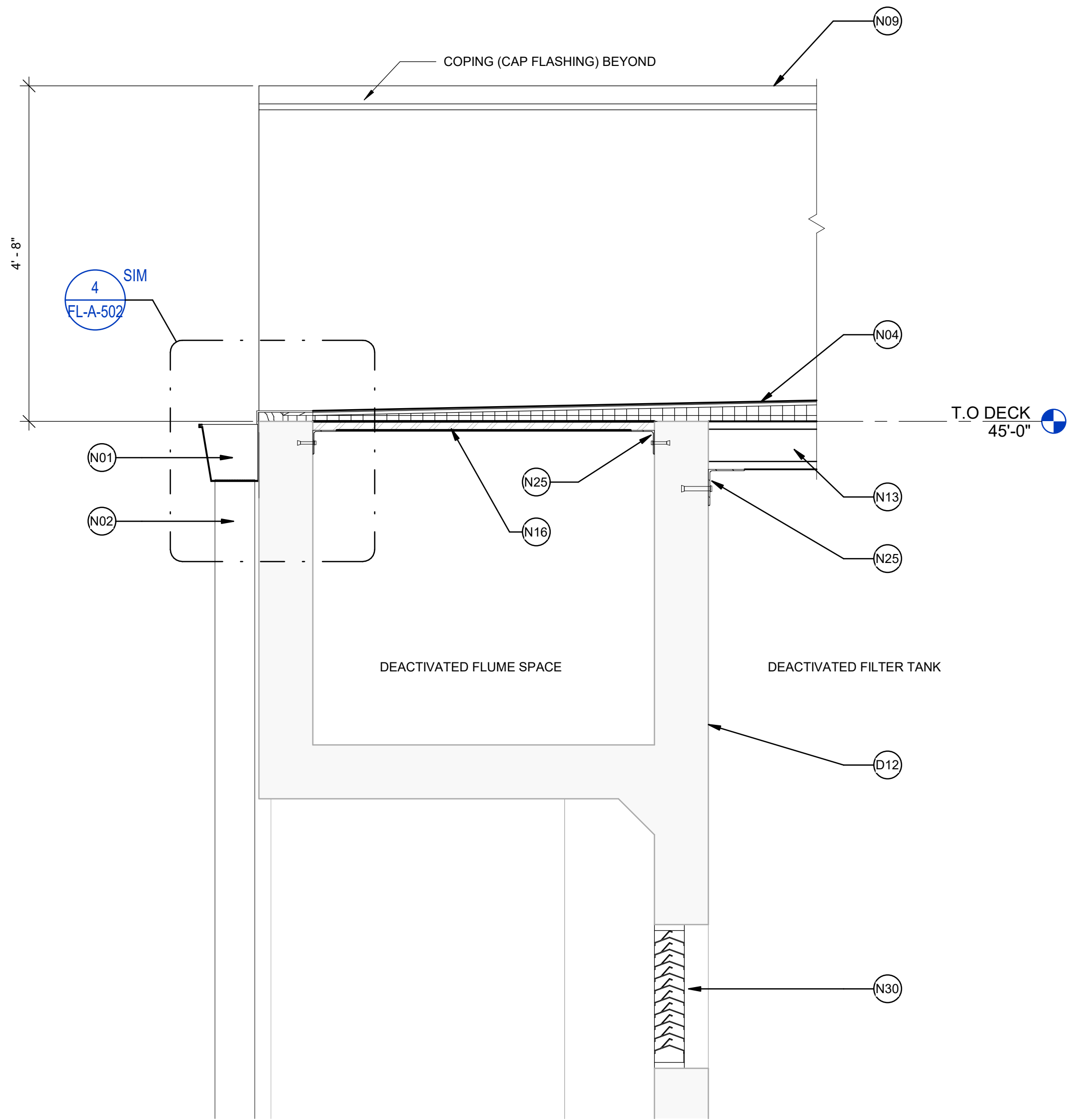
Date: 07/08/2022
 Proj. No.: D3237903
 Drawing No.:
FL-A-402

100% CD SET

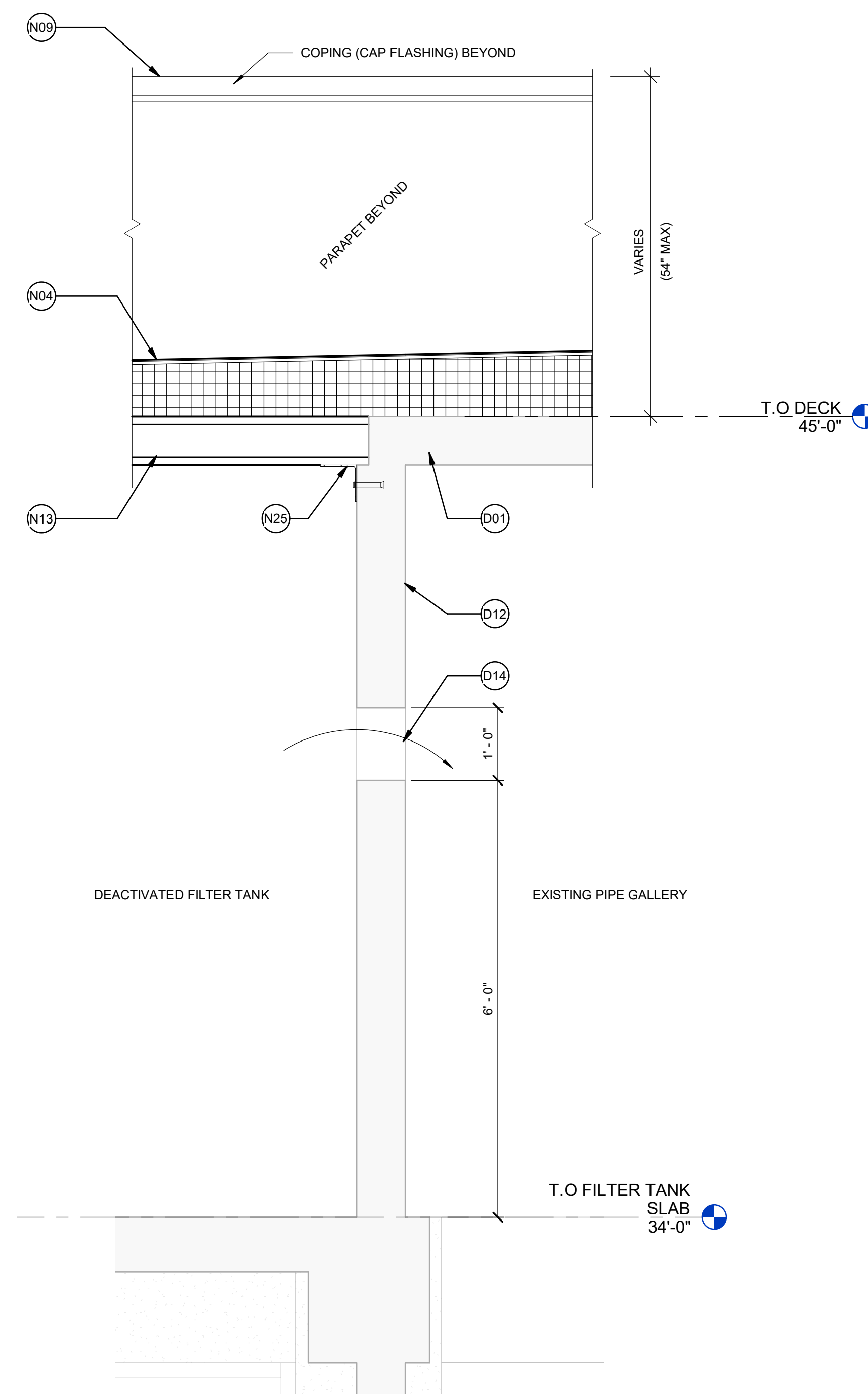
A B C D



1 BUILDING SECTION - PARTIAL TRANSVERSE SECTION THRU FILTER TANK / PIPES GALLERY LOOKING EAST
 3/16" = 1'-0"



1 WALL SECTION - FLUME
3/4" = 1'-0"



2 WALL SECTION - FILTER COMPARTMENT
3/4" = 1'-0"

WALL SECTION NOTES:

- EXTERIOR PAINTING:**
1. PAINT THE ENTIRE BUILDING EXTERIOR (TBD), INCLUDING DOORS, WITH COMMERCIAL-GRADE EXTERIOR LATEX PAINT.
 2. THE NEW PAINT SHALL BE COMPATIBLE WITH THE EXISTING PAINT RESIN.
 3. ALL PRODUCTS SHALL BE LOW VOLATILE ORGANIC COMPOUND AND WATER-BASED.
 4. PRODUCTS CONTAINING LEAD ARE PROHIBITED.
 5. PATCH AND REPAIR SURFACES, SEAL ALL SURFACES TO ENSURE WATER TIGHTNESS, AND APPLY A COAT OF APPROPRIATE PRIMER PRIOR TO APPLY THE FINISH COAT.

Jacobs

5401 W. KENNEDY BLVD.
STE 300 & 900
Tampa, FL 33609
P:(813) 282-3500
www.jacobs.com

©Jacobs Engineering Group Inc. 2022 ALL RIGHTS RESERVED

KEY NOTES:

- D01 EXISTING ROOF SLAB TO REMAIN, TYP.
- D12 EXISTING WALL TO REMAIN
- D14 PROVIDE 24" X 12" SAW-CUT OPENING IN CONCRETE WALL AT ABANDONED FILTER TANKS, CENTERED IN EACH BAY ON BOTH WALLS OF PIPE GALLERY (16 REQ'D). COORDINATE LOCATION AND METHODS WITH EXISTING INTERIOR FILTER GALLERY PIPING.
- N01 10" W X 7-1/2"D PREFINISHED AND SEAMLESS ALUMINUM GUTTER (MED BRONZE), REFER TO DWG FL-A-202 "DOWNSPOUT AND GUTTER SIZING" NOTE.
- N02 6" X 6" PREFINISHED DOWNSPOUT CONNECTED TO STORM SEWER SYSTEM. MATERIAL AND FINISH TO MATCH NEW GUTTERS. REFER TO CIVIL PLANS FOR UNDERGROUND CONNECTION.
- N04 SBS ROOFING MEMBRANE (WHITE), SLOPED @ 1/4" / FT. (UNO) REFER TO DWG FL-A-202 "TYPICAL ROOF ASSEMBLY" NOTE.
- N09 NEW PREFINISHED COPING ON NEW 56" H. CMU PARAPET WALL, PAINTED STUCCO. FOR COPING DETAILS REFER TO 1 & 2 / FL-A-501.
- N13 HOLLOW CORE CONCRETE PLANK, REFER TO STRUCTURAL.
- N16 STRUCTURAL MTL DECK, REFER TO STRUCTURAL.
- N25 CONTINUOUS L STEEL LEDGER ANGLE WITH EXPANSION ANCHORS. REFER TO STRUCT. DWGS.
- N30 NEW PRE-FINISHED 24" X 24" ALUM. LOUVER (DARK BRONZE) FOR ABANDONED FILTER BAY VENTILATION.

NO.	DATE	DR	DSGN	REVISION	CHK	BY	APVD



GRAPHIC SCALE

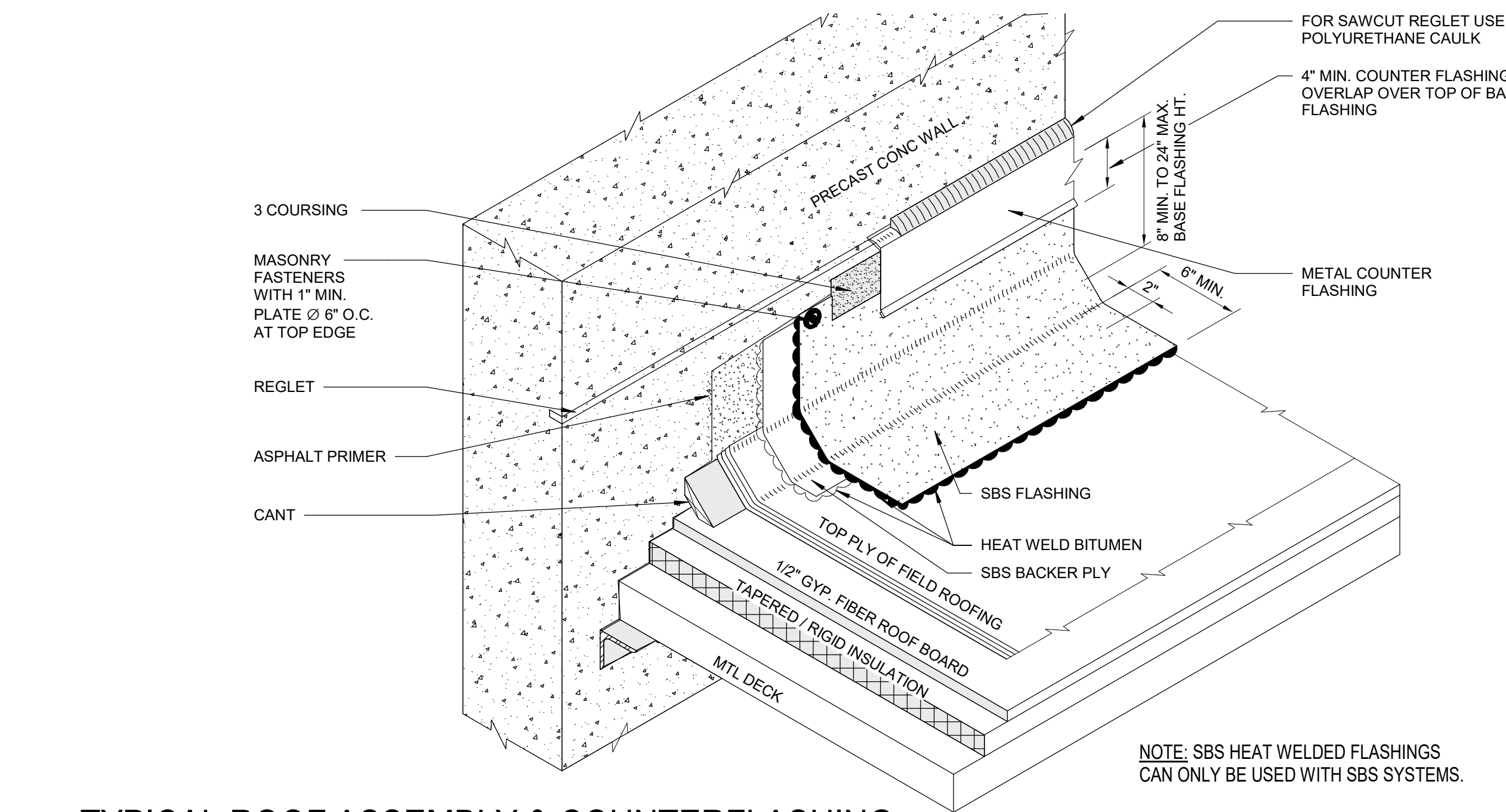
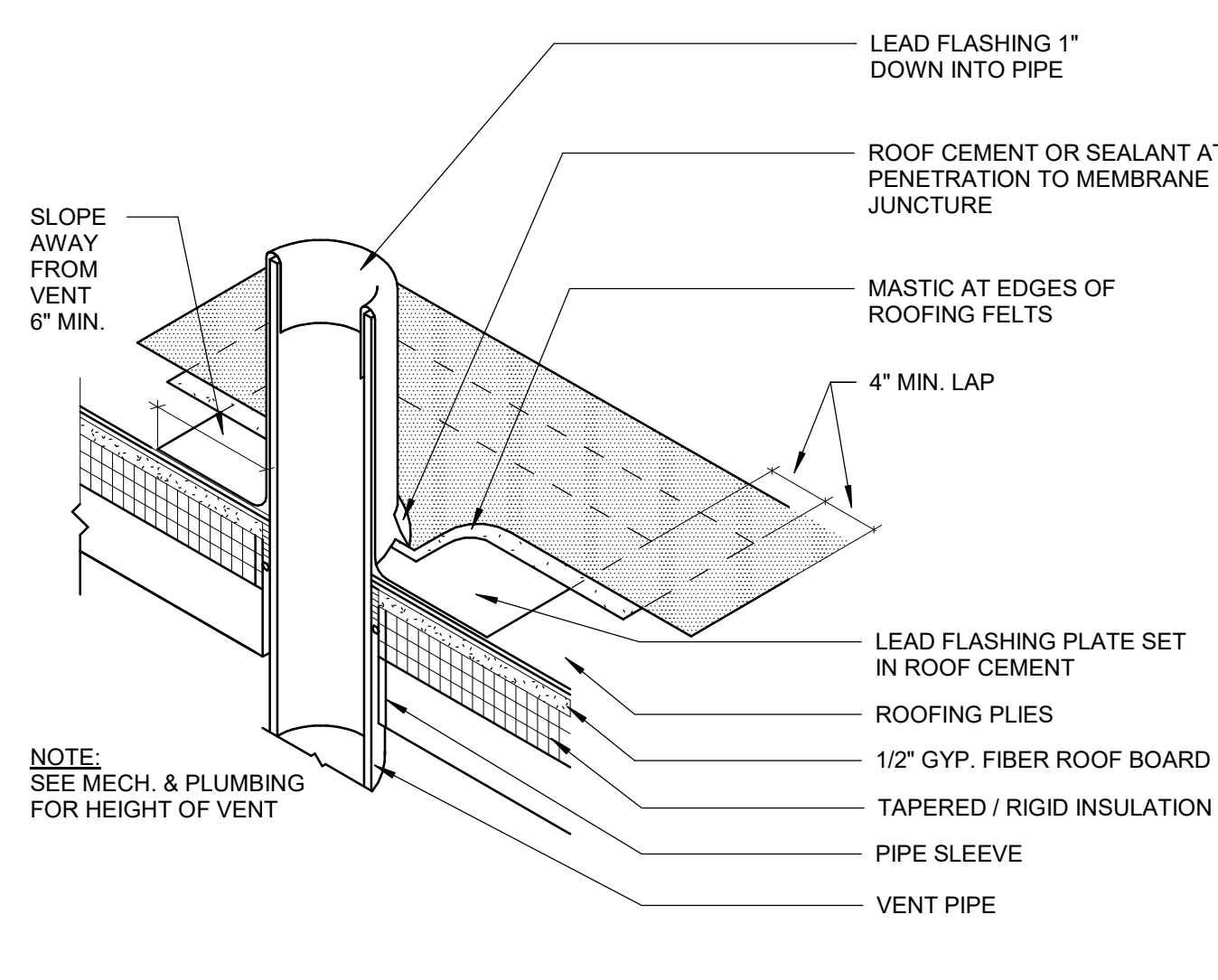
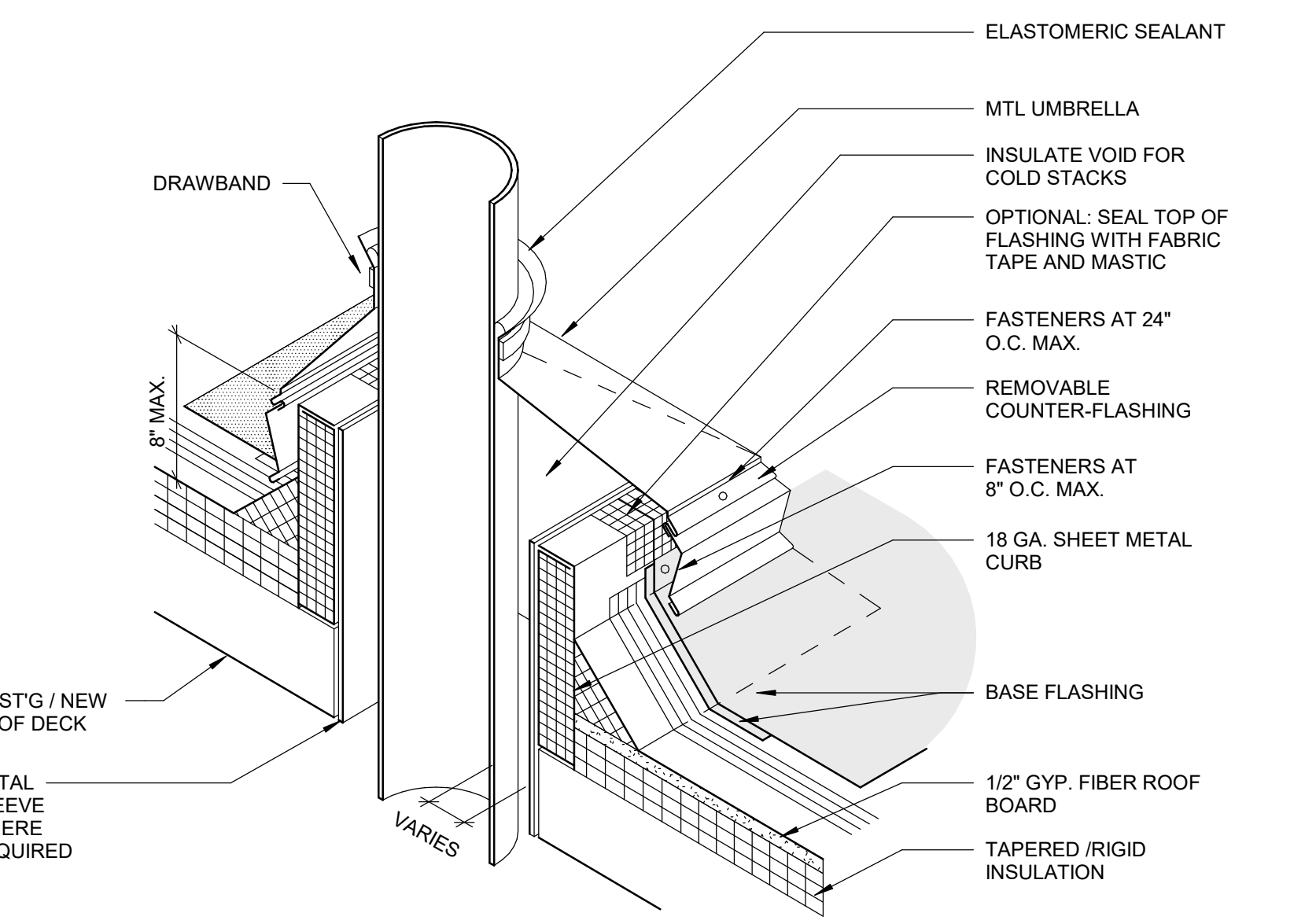
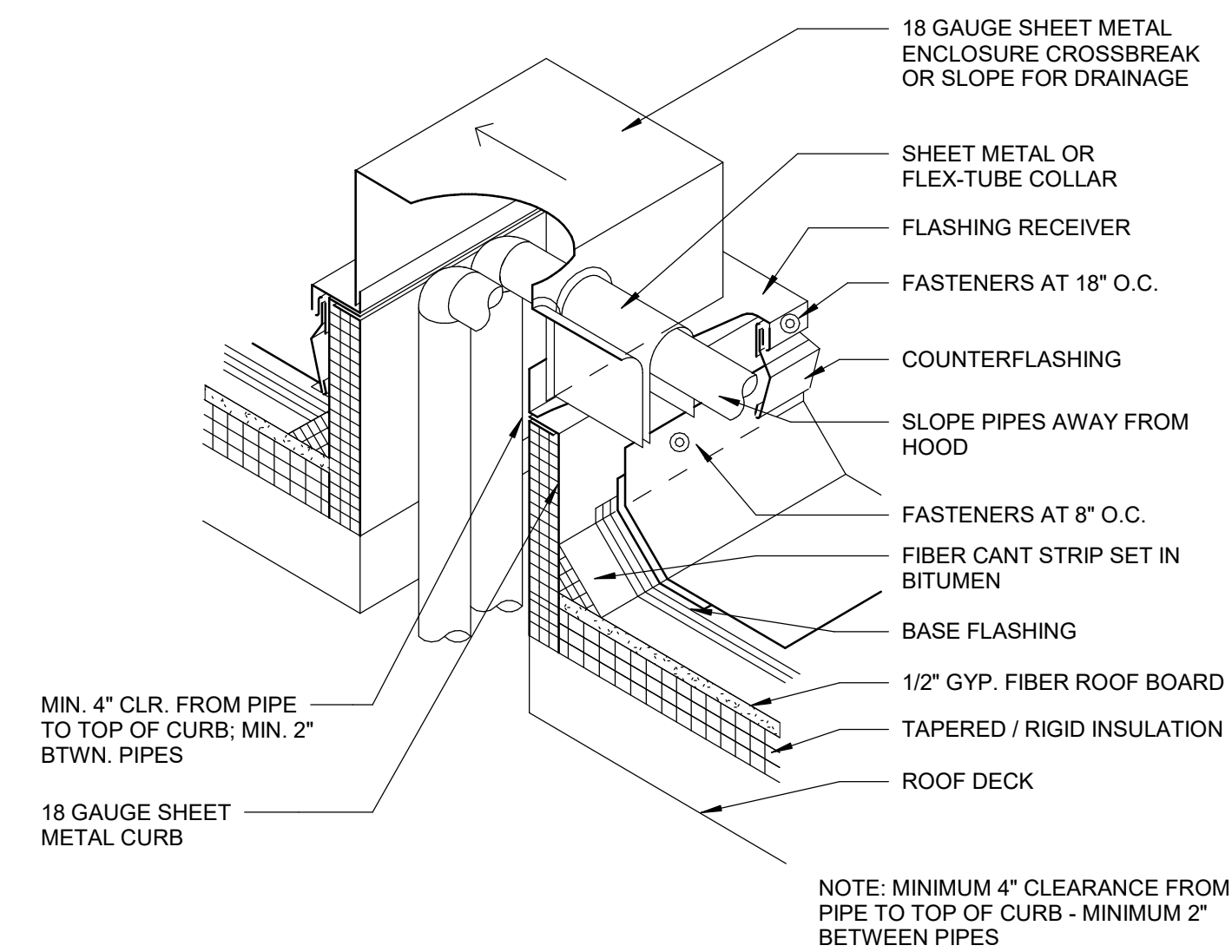
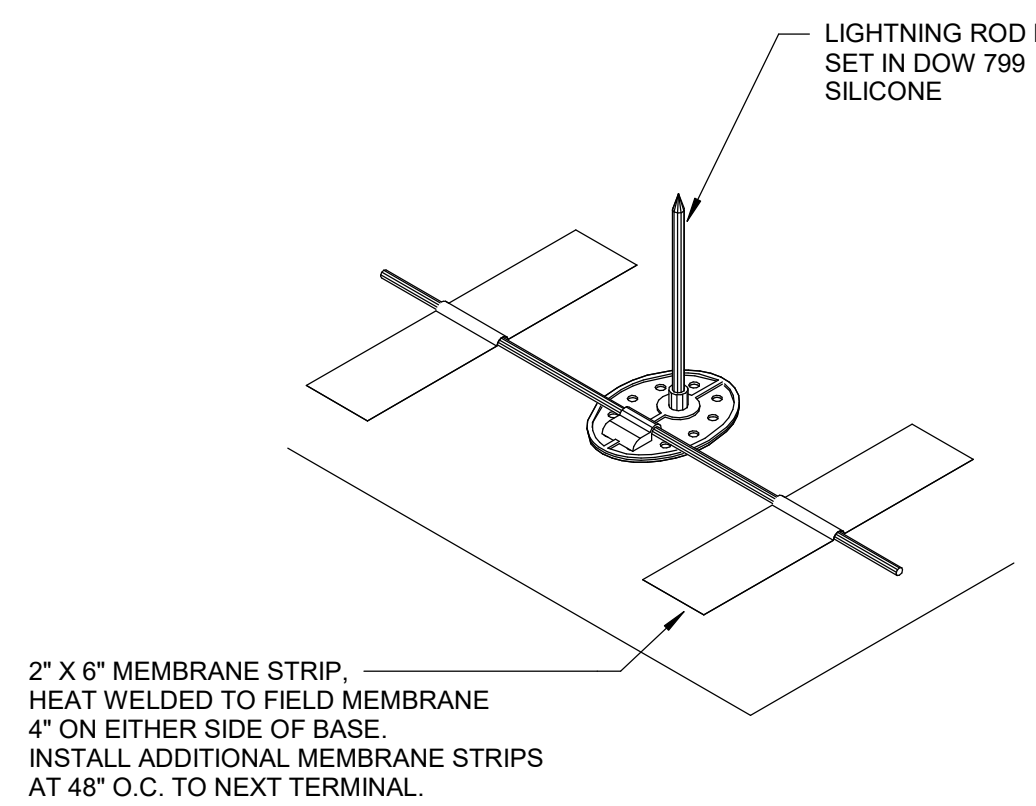
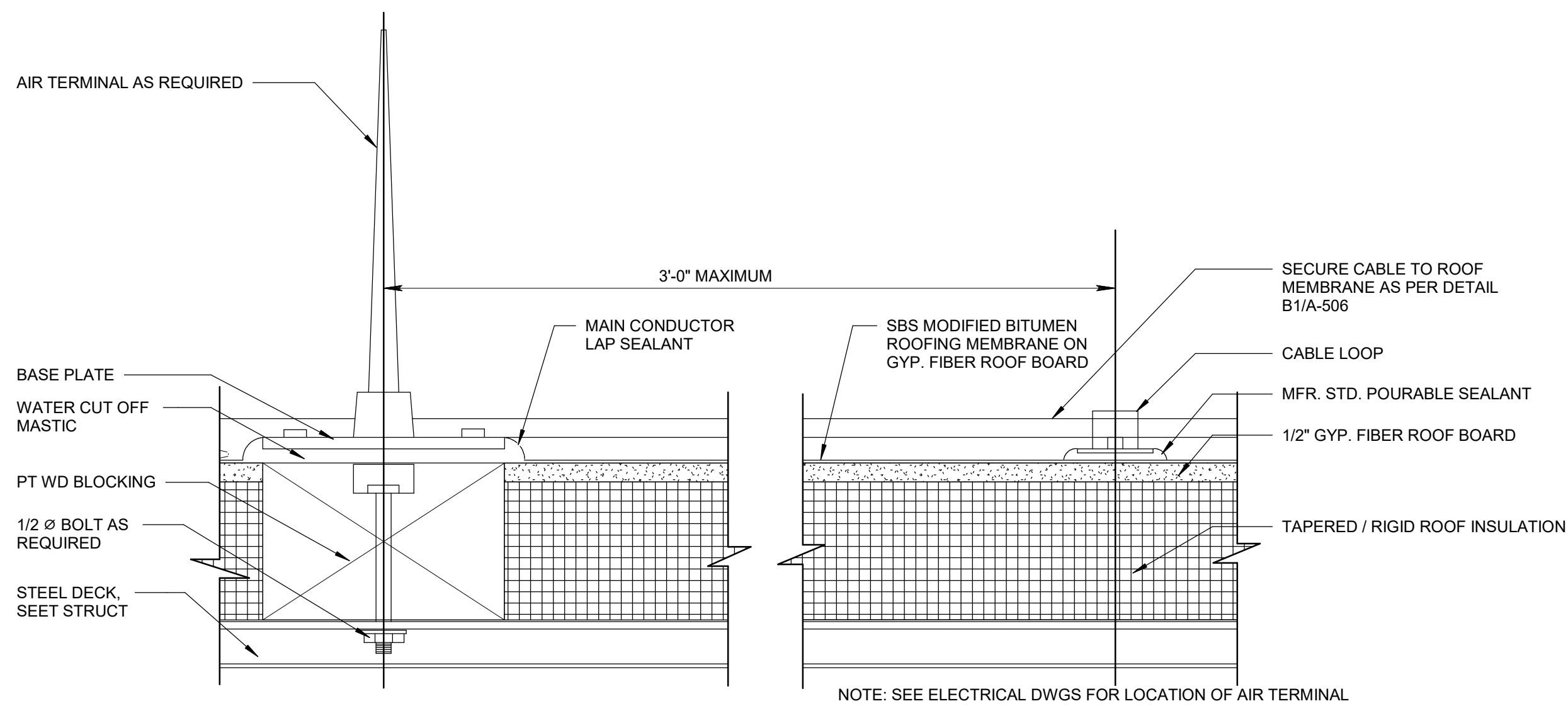
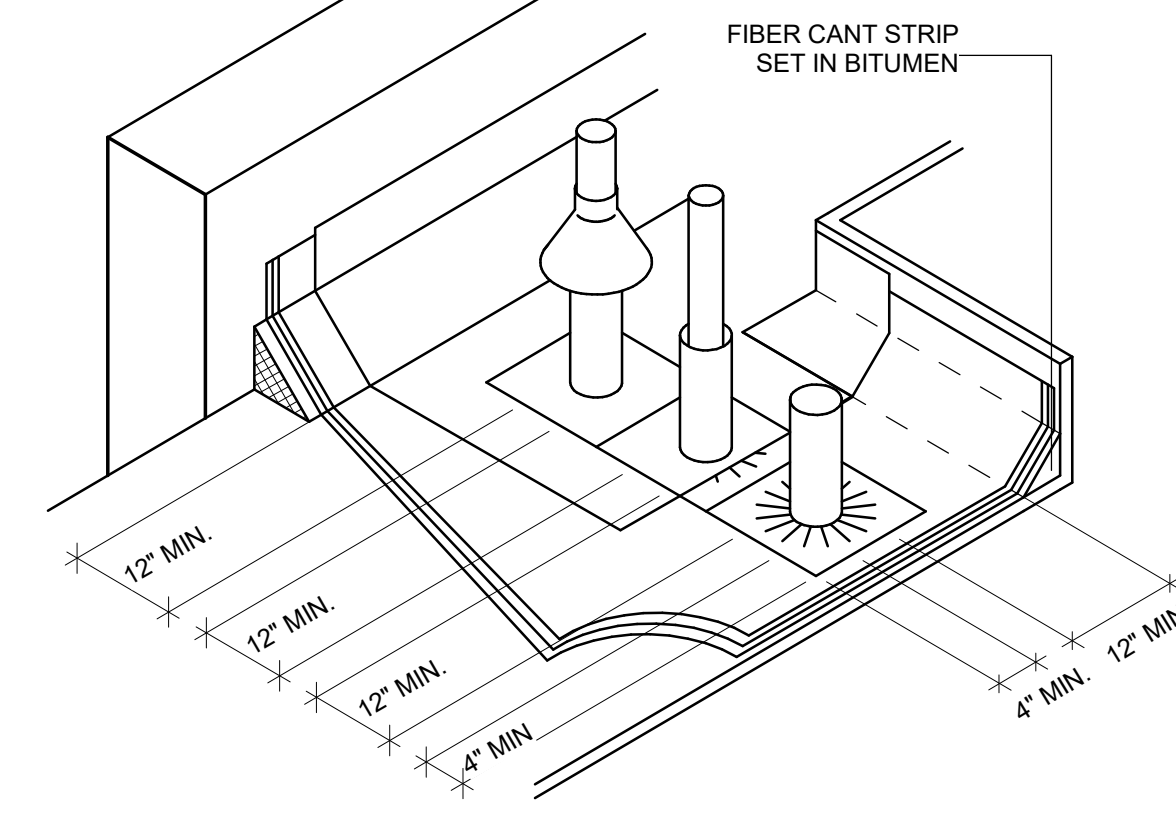
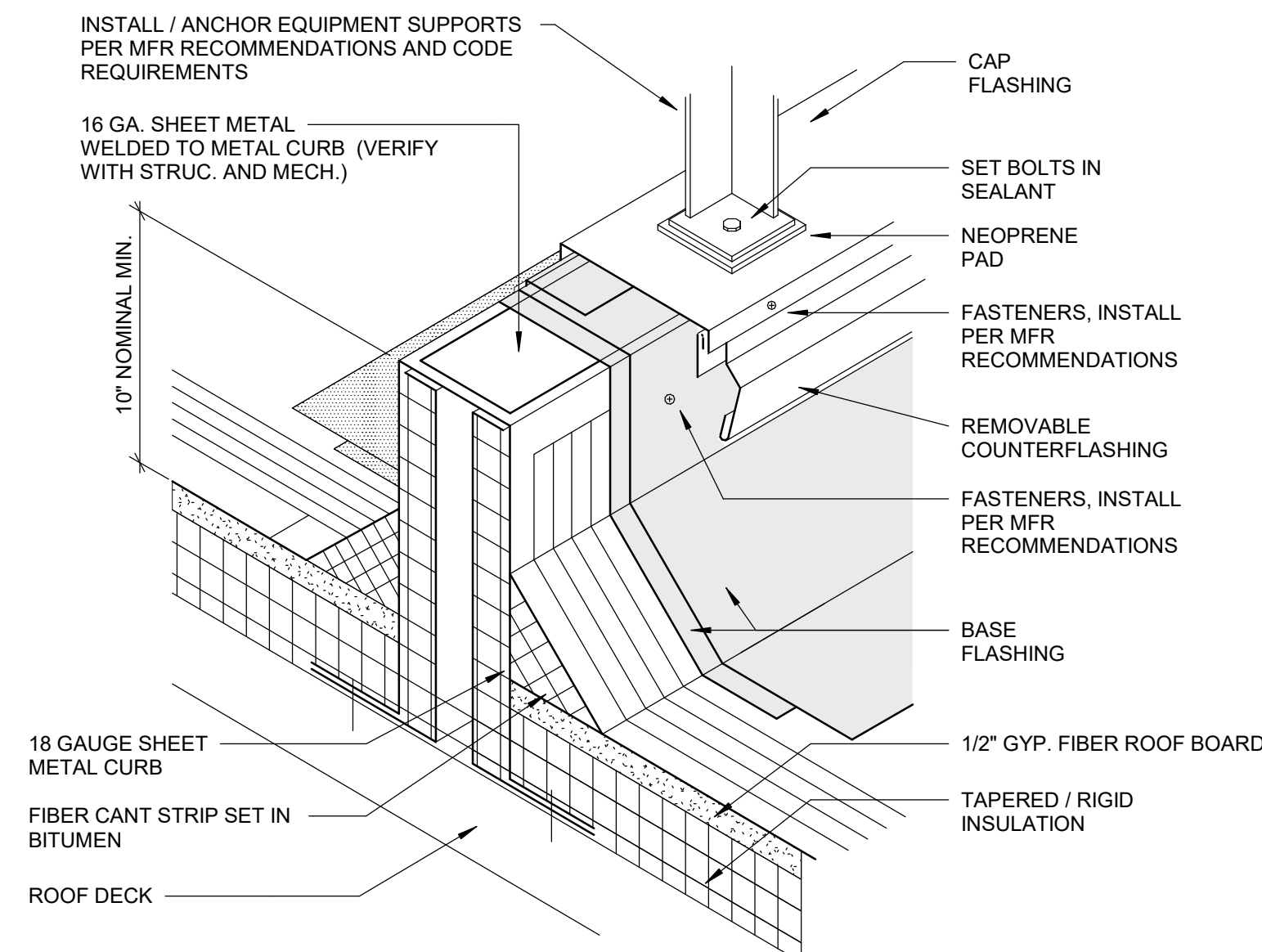
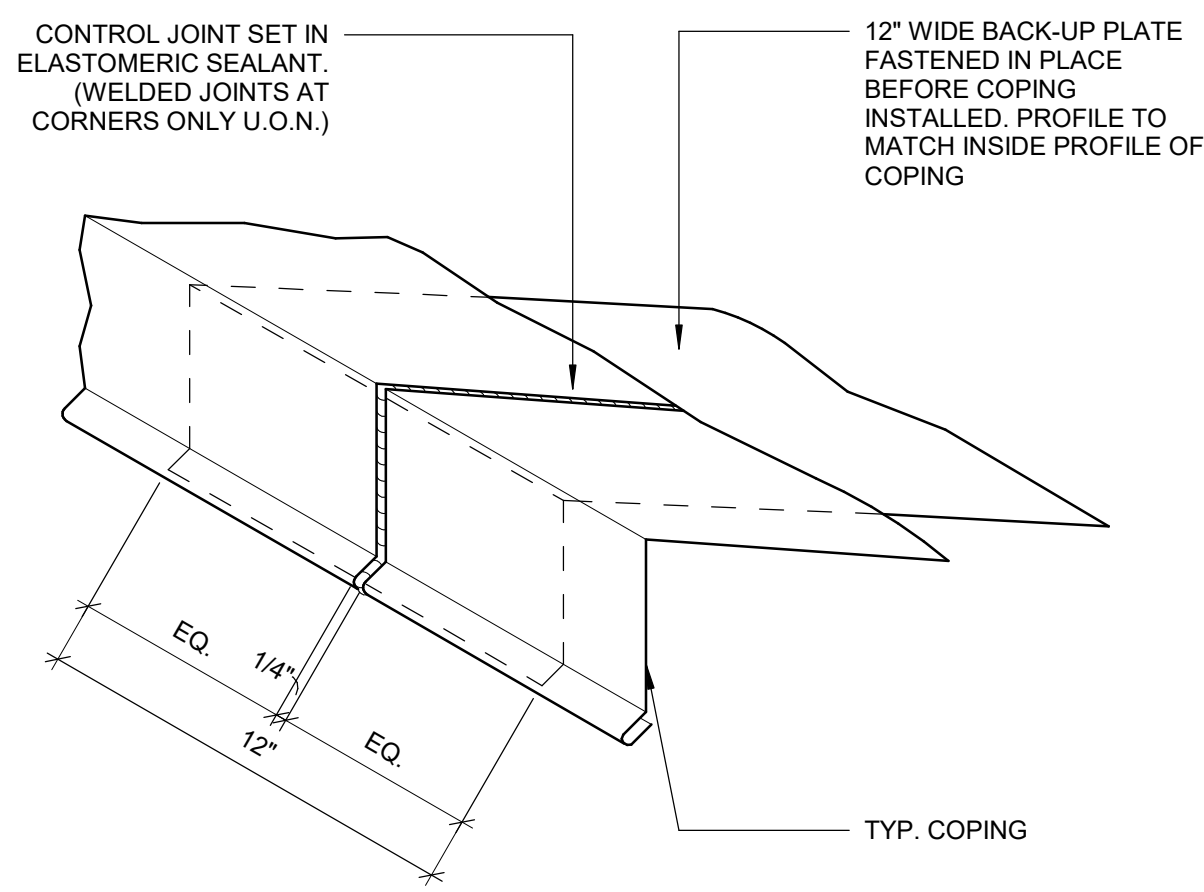
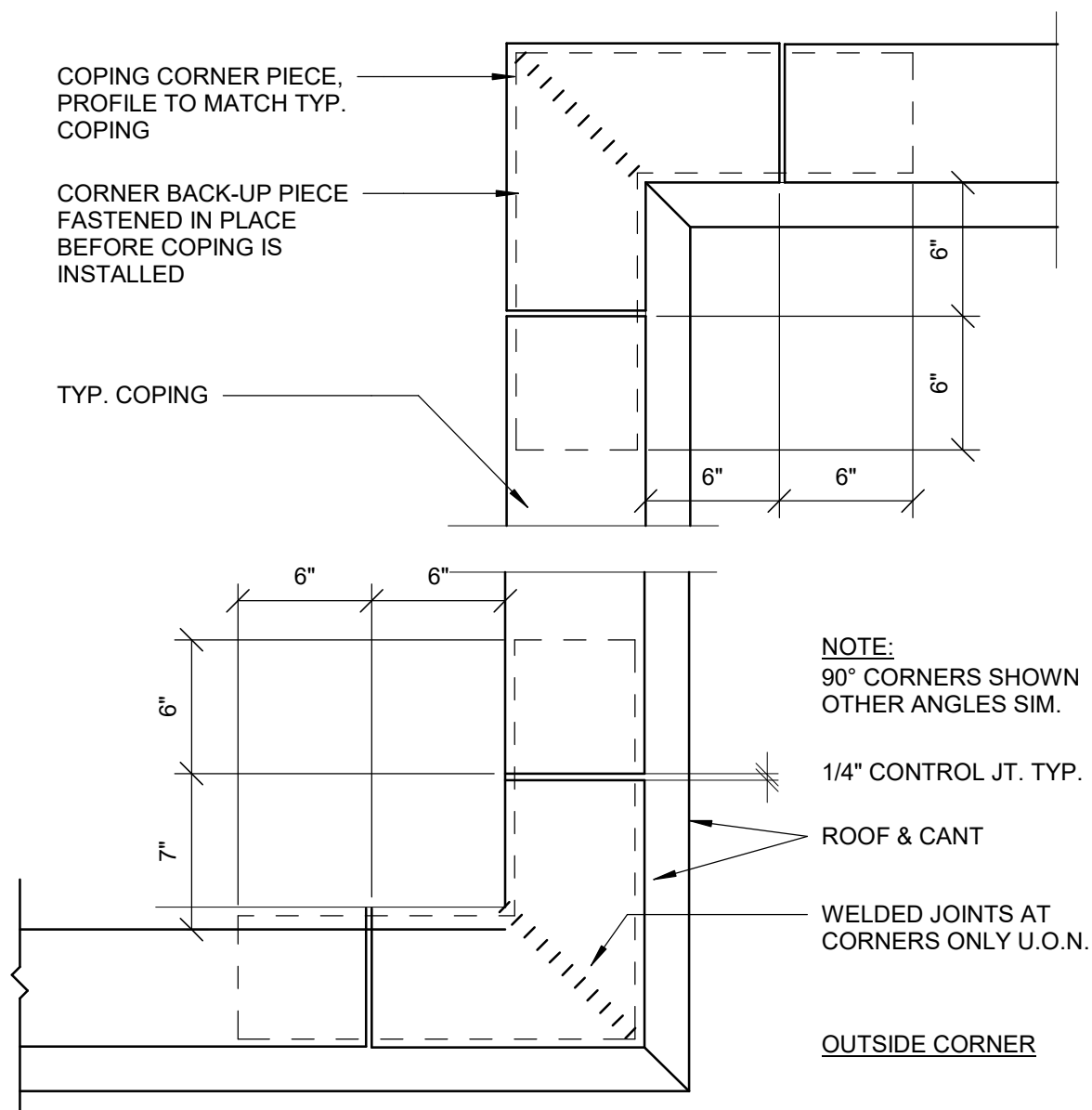


Project Title:
FILTER BUILDING ROOF RETROFIT & SITE IMPROVEMENTS
Drawing Title:
WALL SECTIONS

Date: 07/08/2022
Proj. No.: D3237903
Drawing No.:

FL-A-403

100% CD SET



Jacobs
5401 W. KENNEDY BLVD.
STE 300 & 900
Tampa, FL 33609
P:(813) 282-3500
www.jacobs.com

© Jacobs Engineering Group Inc. 2022 ALL RIGHTS RESERVED

NO.	DATE	DR	REVISION	CHK	BY
					M. Johnson
					M. Kussler
					D. Richardson Jr.
					M. Johnson

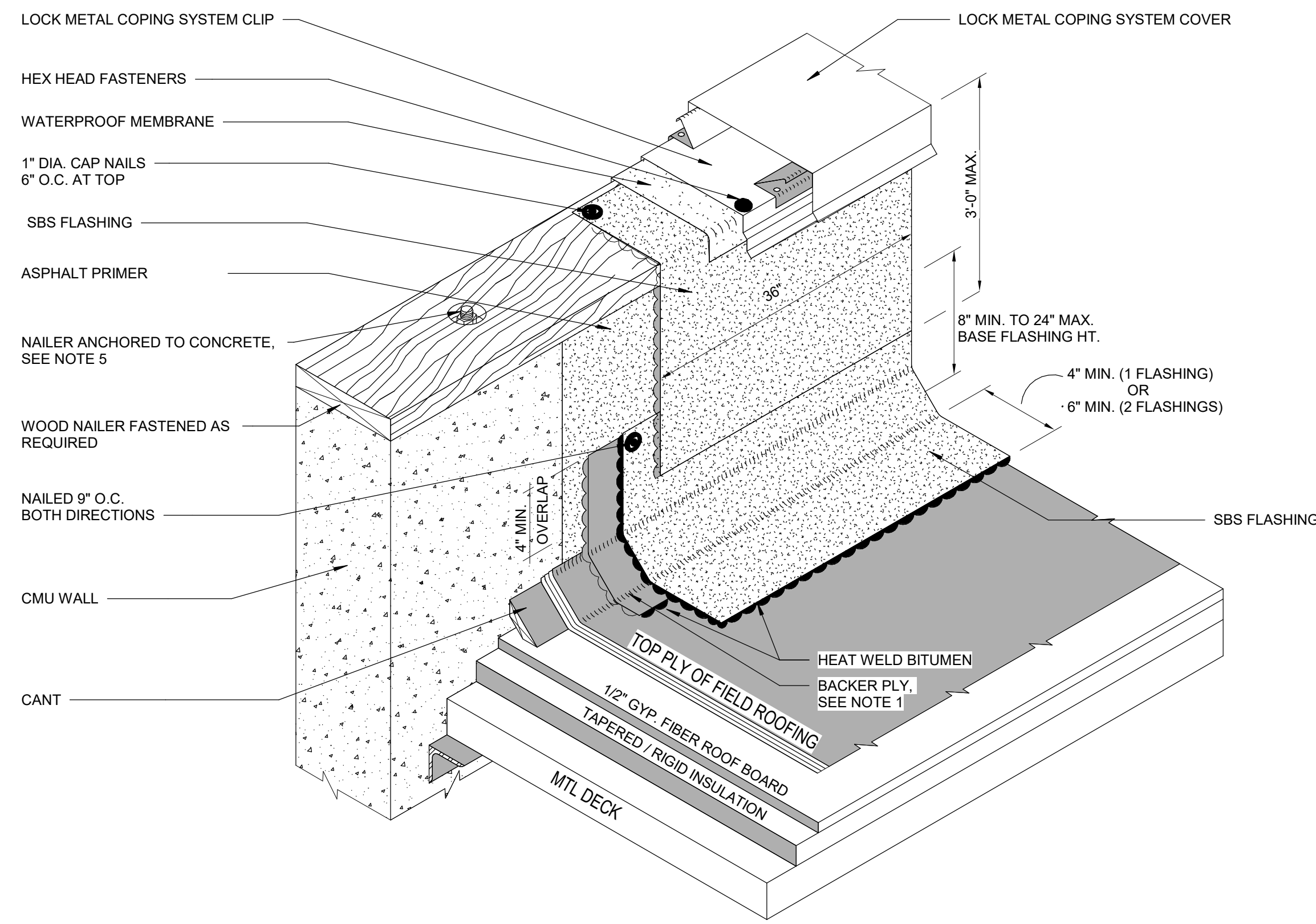
Project Title:
FILTER BUILDING ROOF RETROFIT & SITE IMPROVEMENTS

Drawing Title:
ROOF DETAILS

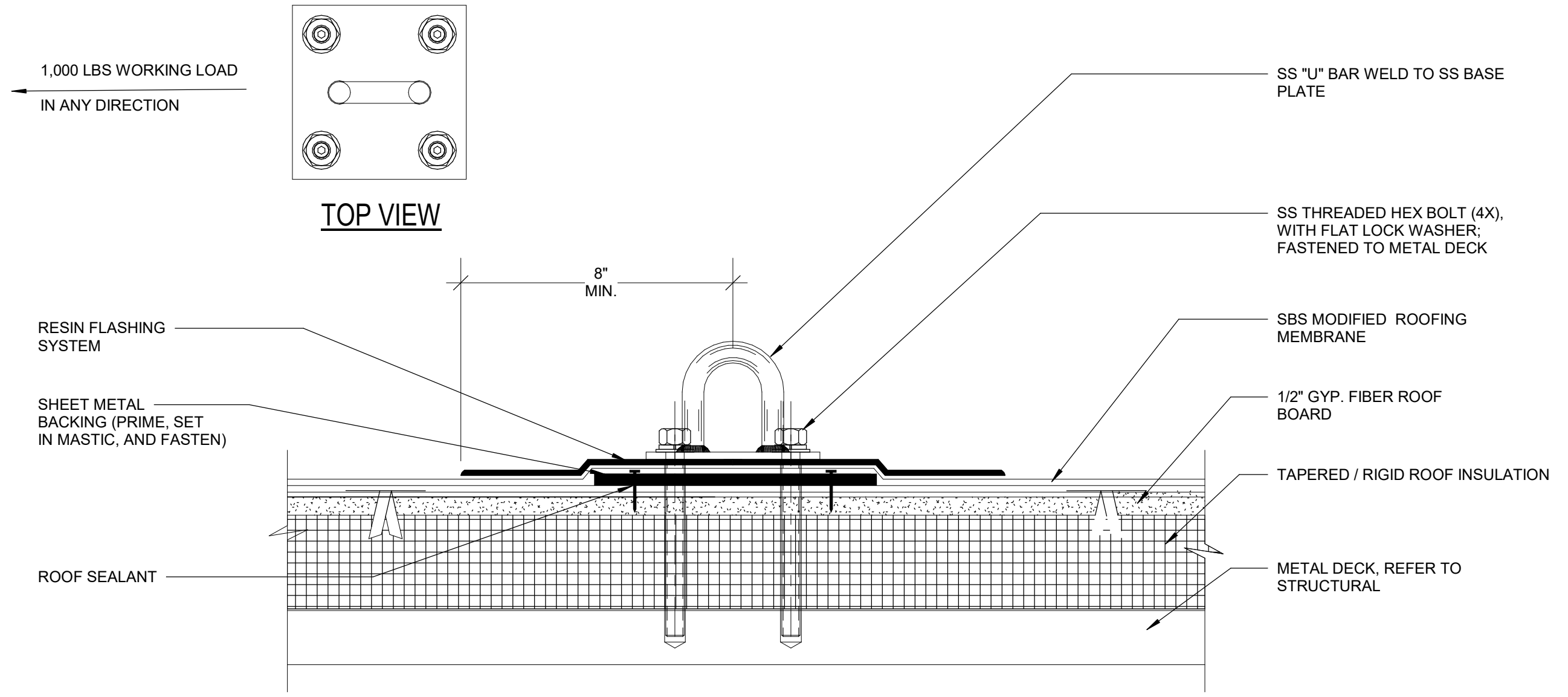
Date: 07/08/2022
Proj. No.: D3237903
Drawing No.:

FL-A-501

100% CD SET

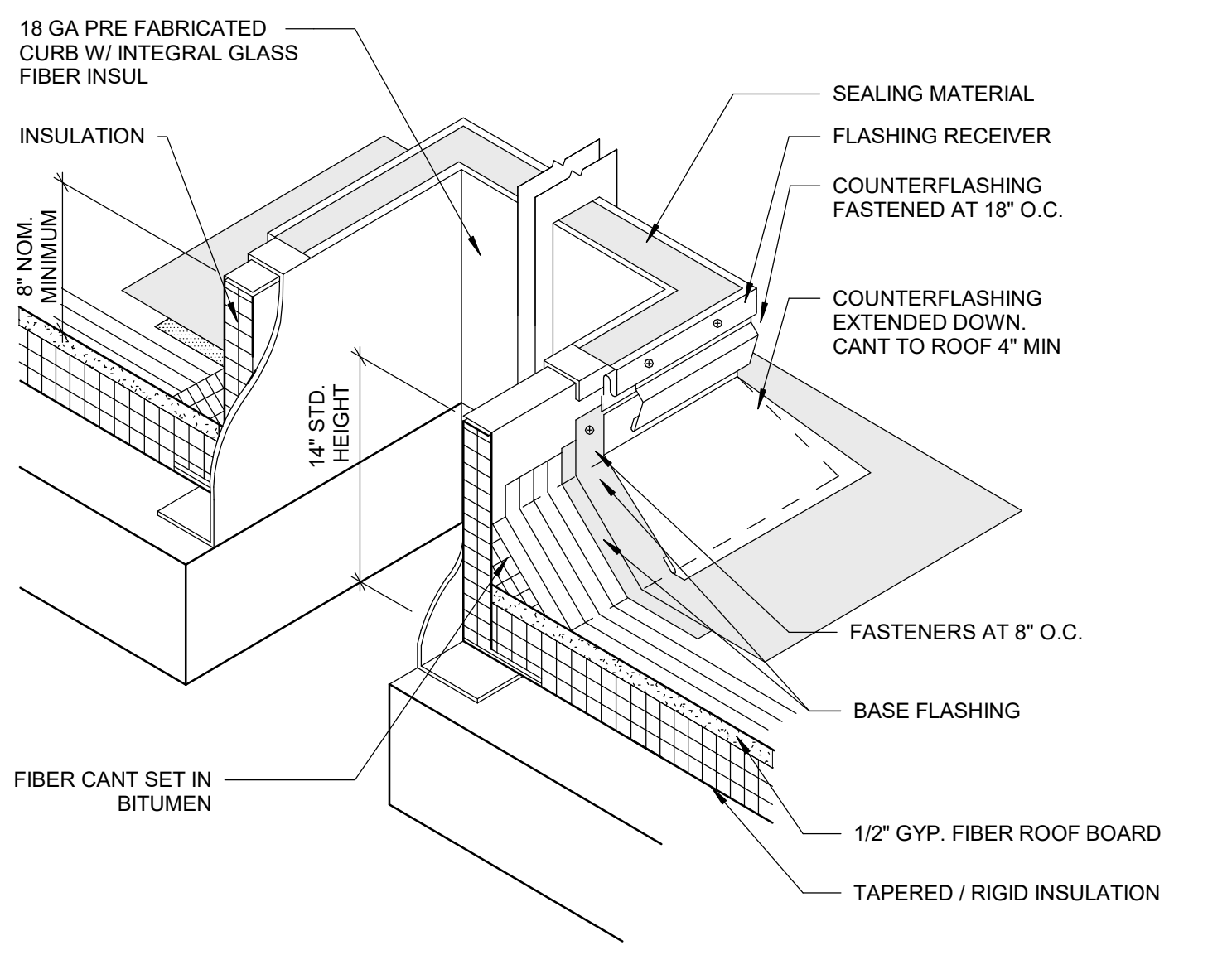


- BASE FLASHING MASONRY WALL NOTES:**
1. EXTEND SBS BACKER PLY EXTENDING 2" MIN. FROM TOE OF CANT.
 2. INSTALL LOCK COPING IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. INSTALLATION TO BE COMPLETED WITH PREFABRICATED INSIDE/OUTSIDE CORNERS AND END CAPS. SHOP FABRICATED COPINGS SHOULD BE INSTALLED IN ACCORDANCE WITH SMACNA GUIDELINES.
 3. VERTICAL JOINTS ARE TO BE OVERLAPPED 4" MINIMUM FOR ALL APPLICATIONS. 3 COURSING WITH MBR UTILITY CEMENT AND FABRIC OR MANUFACTURER'S COMPATIBLE MBR FLASHING CEMENT ON ALL VERTICAL FLASHING LAPS AND INSIDE/OUTSIDE CORNERS EXTENDING PAST LEADING EDGE OF CANT STRIP.
 4. REFER TO SPECIFICATIONS FOR BITUMINOUS FLASHING FOR A FULL DESCRIPTION OF INSTALLATION INSTRUCTIONS AND REQUIREMENTS WHICH ARE CONSIDERED A PART OF THIS DETAIL.
 5. FASTENER AND SPACING OF COPING NAILER TO COMPLY WITH CODE REQUIREMENTS FOR UPLIFT FORCES APPLICABLE TO THE AREA OF THIS PROJECT



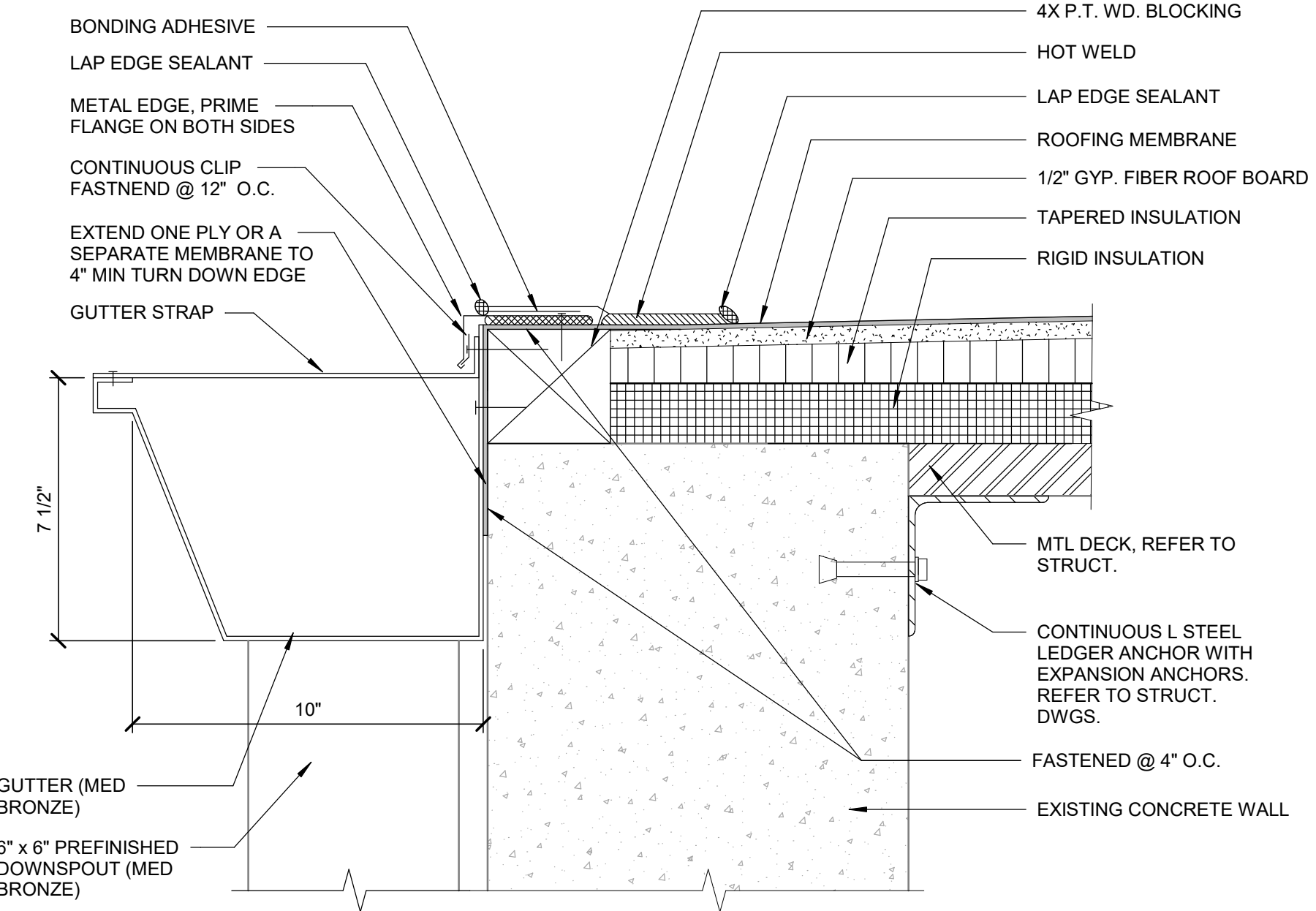
- NOTES:**
1. ROOF SAFETY ANCHORS TO BE SUBMITTED AS DELEGATED DESIGN BY A STRUCTURAL ENGINEER LICENSED IN FLORIDA.
 2. ALL INSTALLED ANCHORS MUST BE LOAD TESTED.
 3. ANCHOR ASSEMBLY SHALL BE HEAVY DUTY OPTION AS END ANCHOR FOR DOUBLE LANYARD SYSTEM.
 4. FALL ARREST SAFETY ANCHORS SHALL BE DESIGNED TO A TYPICAL MAXIMUM FALL ARRESTING FORCE OF 1,800 lbs. (8.0 KN) WHEN WEARING A BODY HARNESS, WITH A FACTOR OF SAFETY OF 2 WITHOUT ANY PERMANENT DEFORMATION, AND TO 5,000 lbs. (22.2 KN) AGAINST FRACTURE OR DETACHMENT.
 5. IT IS THE RESPONSIBILITY OF THE DELEGATED STRUCTURAL ENGINEER TO ENSURE THAT THE STRUCTURE ON WHICH THE SAFETY EQUIPMENT IS INSTALLED, IS REINFORCED TO WITHSTAND THE LOADS INDICATED ON THIS DRAWING.

1 TYPICAL PARAPET BASE FLASHING
1 1/2" = 1'-0"

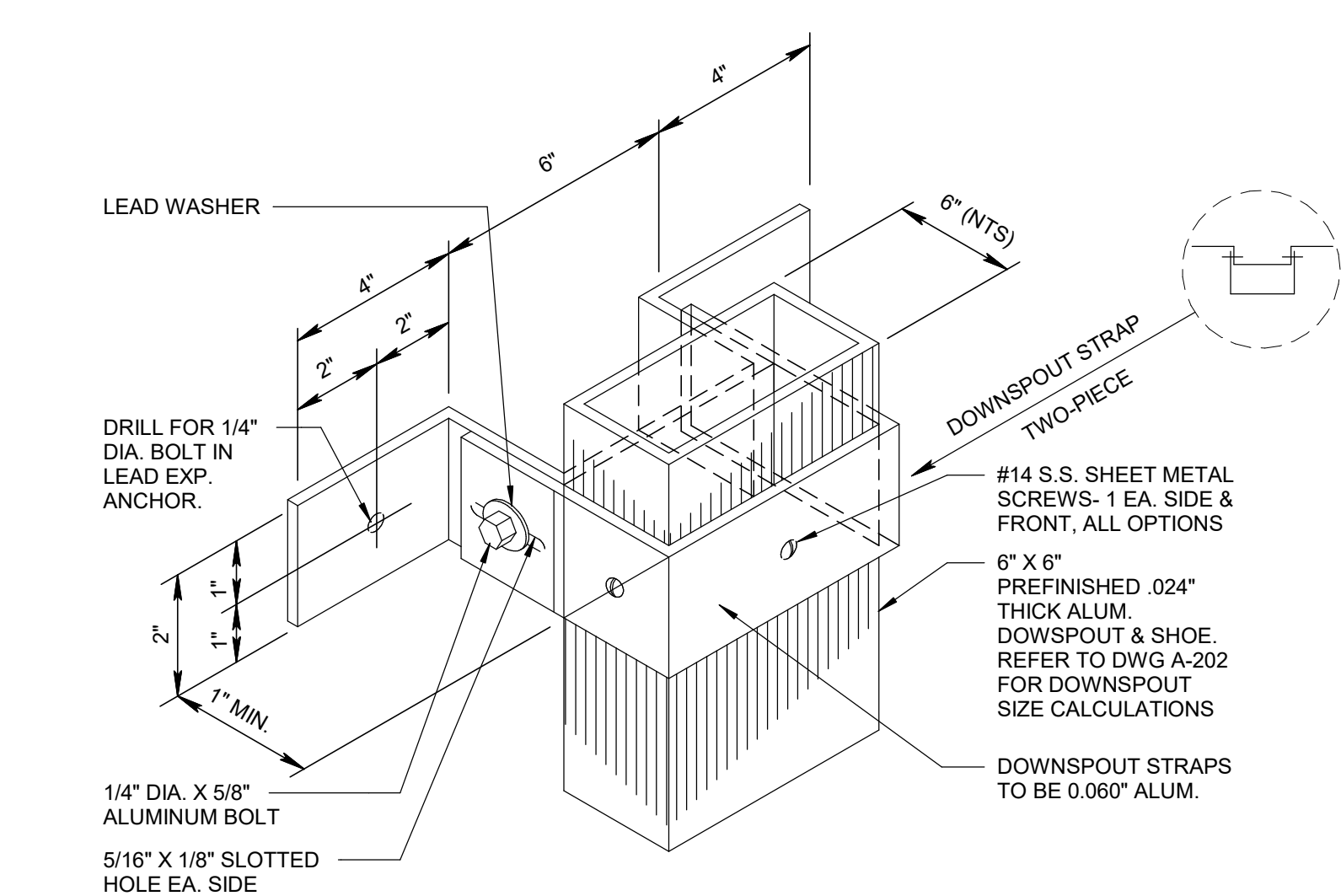


3 CURB DETAIL AT ROOFTOP MECHANICAL EQUIPMENT
3" = 1'-0"

2 FALL ARREST ANCHOR
3" = 1'-0"



4 TYPICAL ROOF EDGE AND GUTTER DETAIL
3" = 1'-0"



5 TYPICAL DOWNSPOUT STRAP
3" = 1'-0"

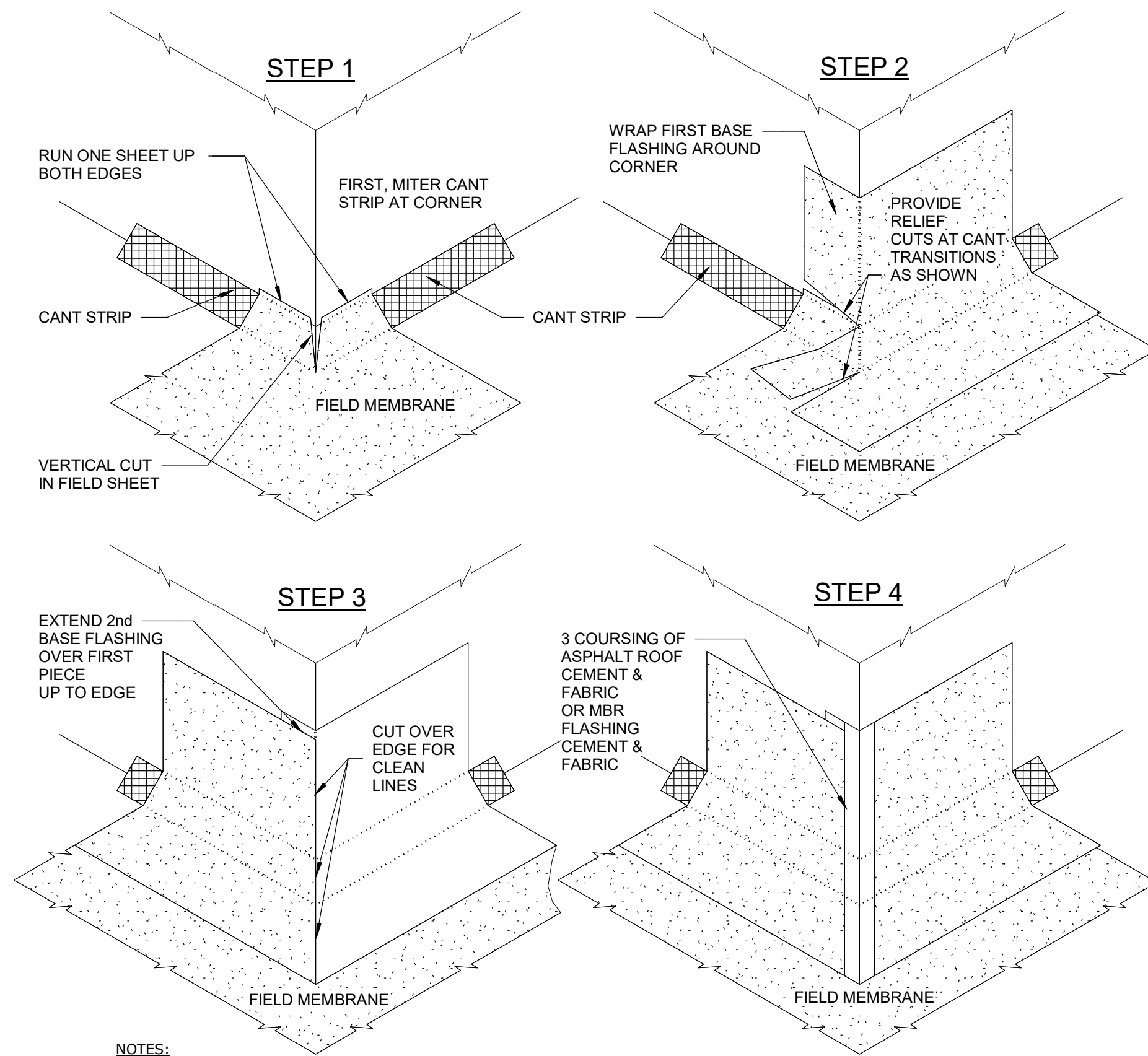


Project Title:
FILTER BUILDING ROOF RETROFIT & SITE IMPROVEMENTS
Drawing Title:
ROOF DETAILS

Date: 07/08/2022
Proj. No.: D3237903
Drawing No.:

FL-A-502

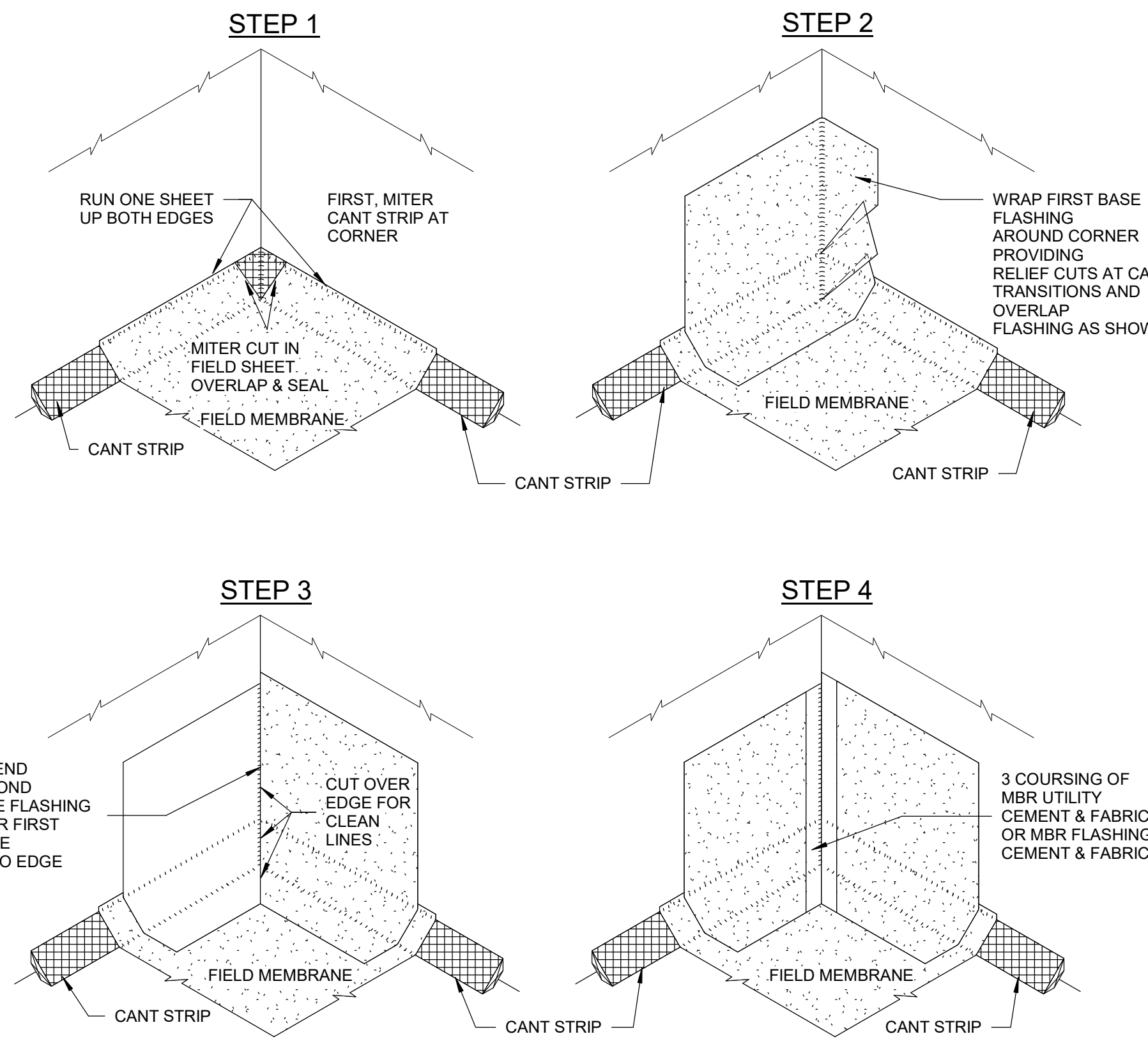
100% CD SET



NOTES:

- 3-COURSING WITH ASPHALT ROOF CEMENT & FABRIC OR ASPHALT ROOF FLASHING CEMENT & FABRIC MUST BE USED ALONG EDGE OF BASE FLASHING AS DEPICTED IN STEP 4.
- A MINIMUM OF 4" OVERLAP AT ALL VERTICAL JOINTS FOR ALL APPLICATIONS IS REQUIRED; ALSO 3 COURSING WITH ASPHALT ROOF CEMENT AND FABRIC OR ASPHALT ROOF FLASHING CEMENT IS REQUIRED ON ALL VERTICAL FLASHING LAPS AND INSIDE/OUTSIDE CORNERS EXTENDING PAST LEADING EDGE OF CANT STRIP.
- REFER TO BITUMINOUS FLASHING SPECIFICATIONS FOR A FULL DESCRIPTION OF INSTALLATION INSTRUCTIONS AND REQUIREMENTS WHICH ARE CONSIDERED A PART OF THIS DETAIL.

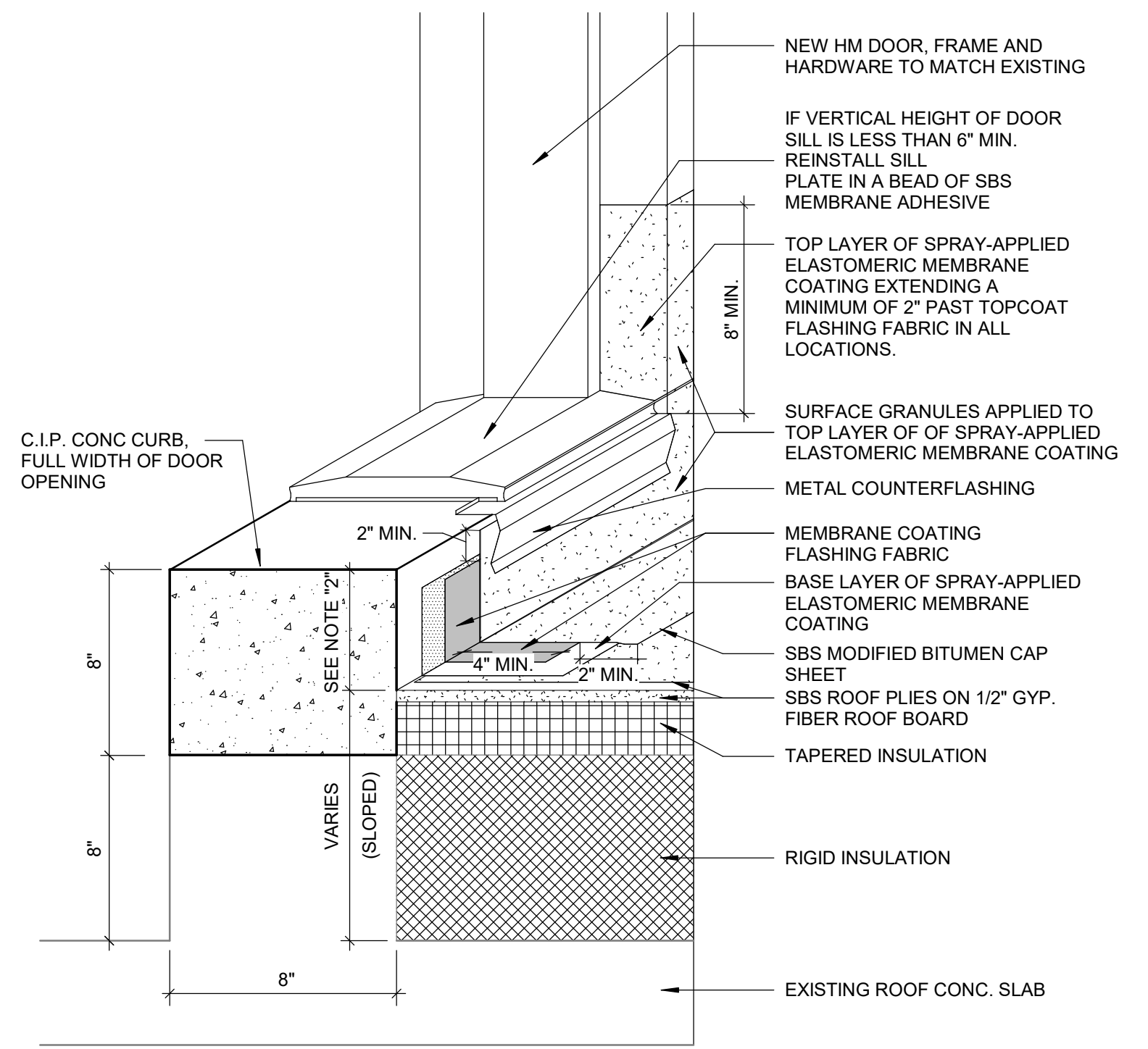
1 BASE FLASHING AT OUTSIDE CORNER
1" = 1'-0"



NOTES:

- 3-COURSING WITH ASPHALT ROOF CEMENT & FABRIC OR ASPHALT ROOF FLASHING CEMENT & FABRIC MUST BE USED ALONG EDGE OF BASE FLASHING AS DEPICTED IN STEP 4.
- A MINIMUM OF 4" OVERLAP AT ALL VERTICAL JOINTS FOR ALL APPLICATIONS IS REQUIRED; ALSO 3 COURSING WITH ASPHALT ROOF CEMENT AND FABRIC OR ASPHALT ROOF FLASHING CEMENT IS REQUIRED ON ALL VERTICAL FLASHING LAPS AND INSIDE/OUTSIDE CORNERS EXTENDING PAST LEADING EDGE OF CANT STRIP.
- REFER TO BITUMINOUS FLASHING SPECIFICATIONS FOR A FULL DESCRIPTION OF INSTALLATION INSTRUCTIONS AND REQUIREMENTS WHICH ARE CONSIDERED A PART OF THIS DETAIL.

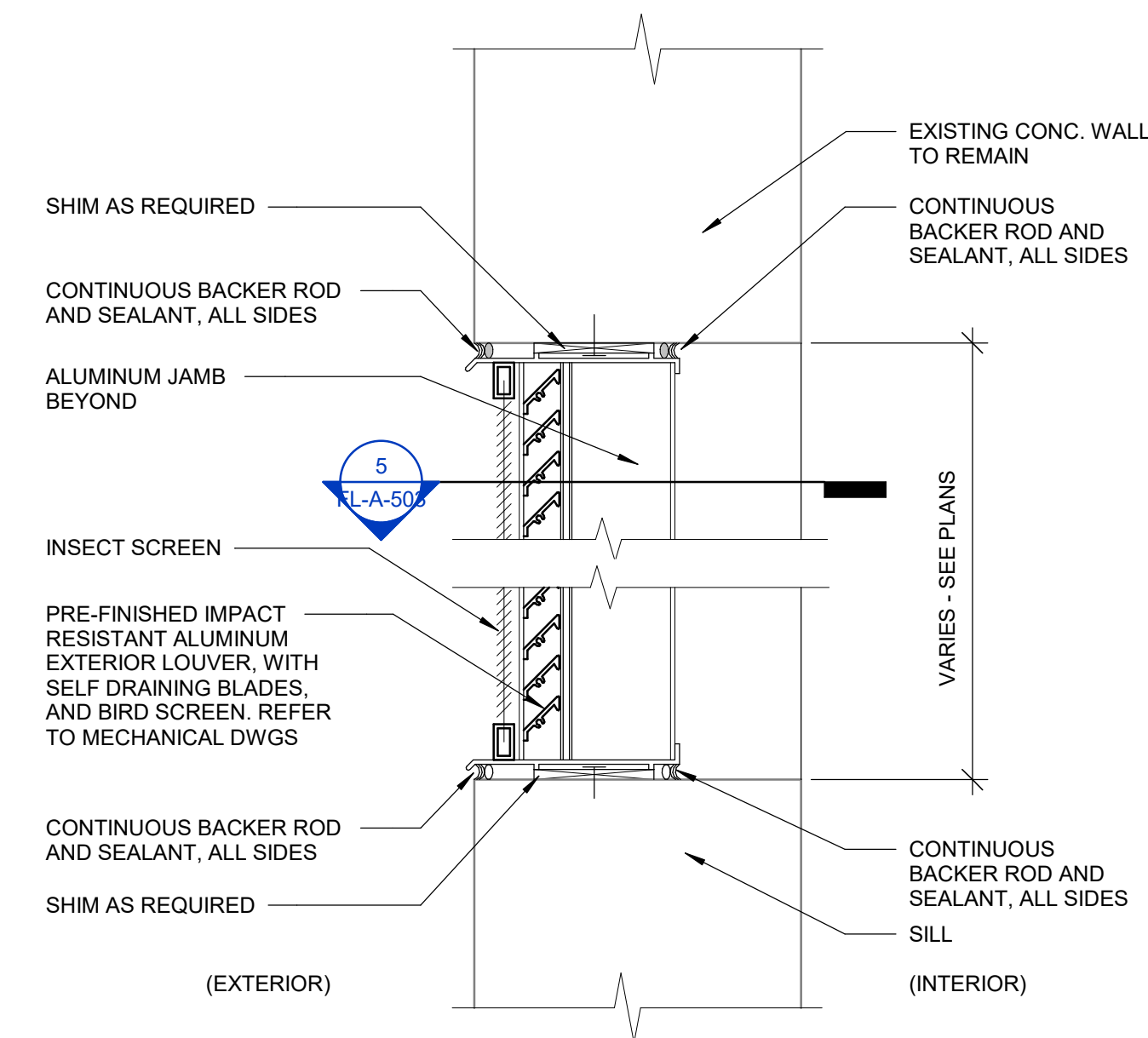
2 BASE FLASHING AT INSIDE CORNER
1" = 1'-0"



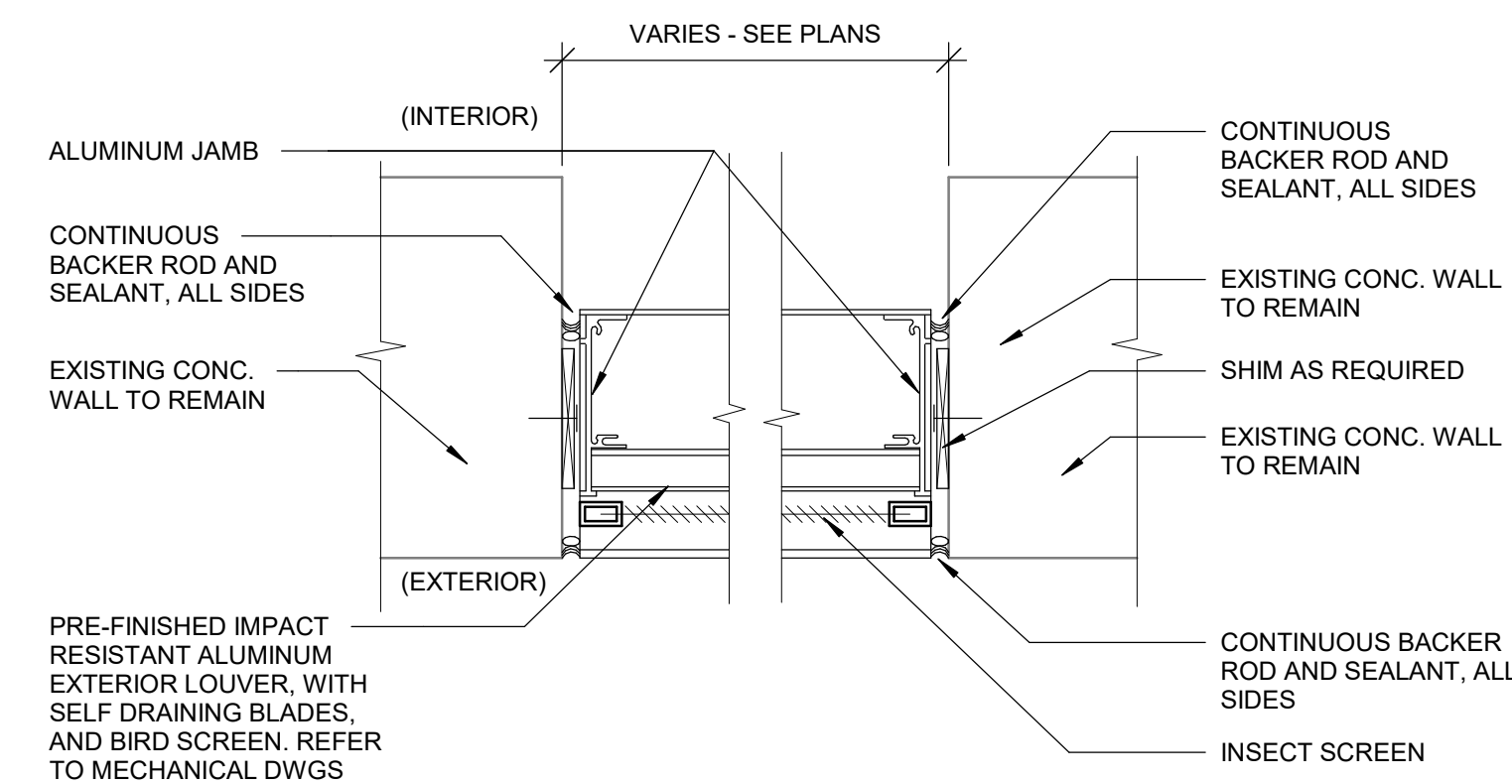
NOTES:

- INSTALL ONLY MANUFACTURER'S ACCEPTABLE GRANULE SURFACED CAP SHEETS
- FIELD VERIFY: IF VERTICAL HEIGHT OF DOOR SILL IS LESS THAN 6" MIN. EXTEND TOPCOAT UNDER DOOR SILL. TOP COAT BASIS OF DESIGN: MATRIX MAJORSEAL SYSTEM OR EQUAL.

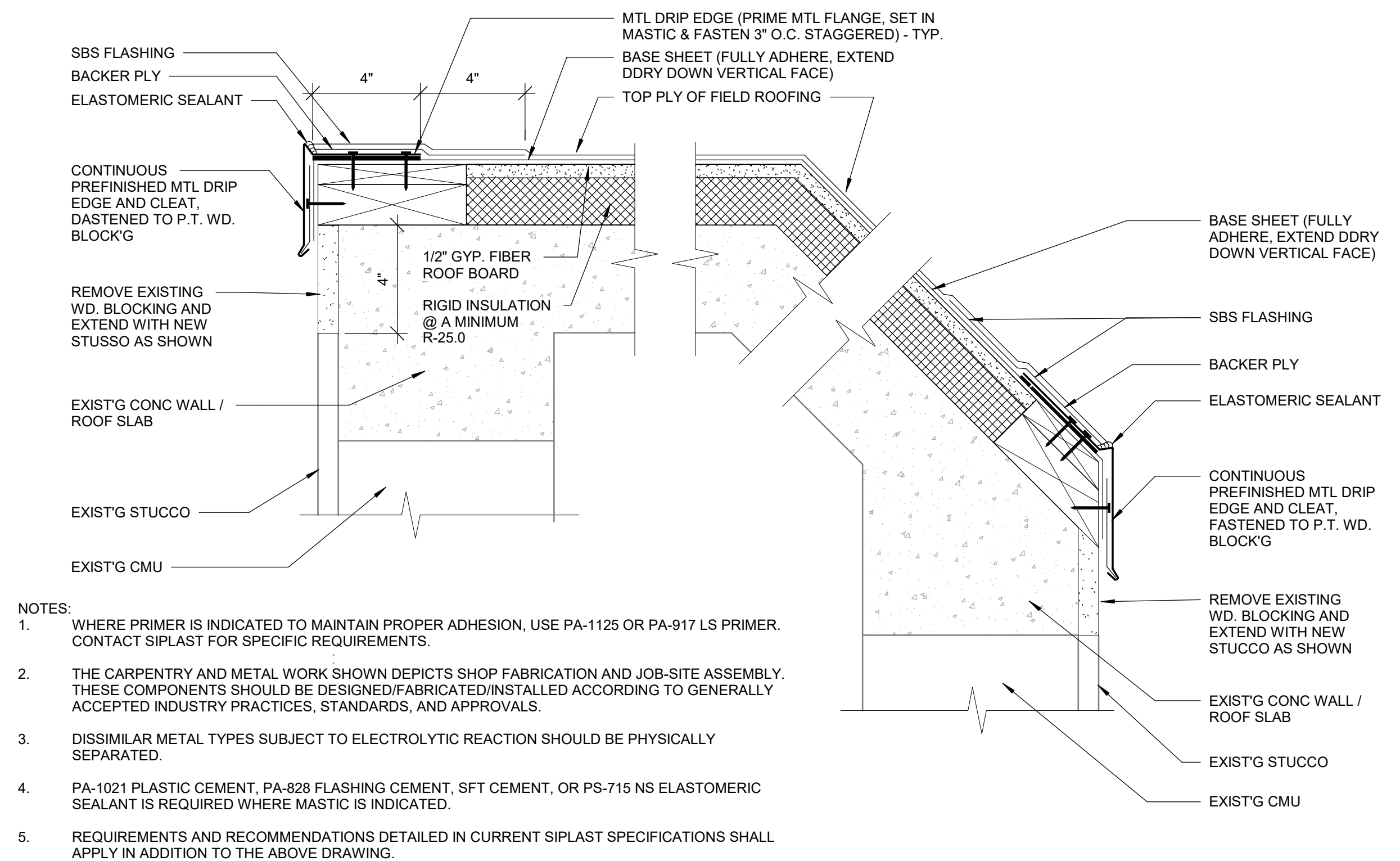
3 DOOR SILL FLASHING
1" = 1'-0"



4 LOUVER HEAD & SILL
3" = 1'-0"



5 LOUVER JAMB
3" = 1'-0"



NOTES:

- WHERE PRIMER IS INDICATED TO MAINTAIN PROPER ADHESION, USE PA-1125 OR PA-917 LS PRIMER. CONTACT SIPLAST FOR SPECIFIC REQUIREMENTS.
- THE CARPENTRY AND METAL WORK SHOWN DEPICTS SHOP FABRICATION AND JOB-SITE ASSEMBLY. THESE COMPONENTS SHOULD BE DESIGNED/FABRICATED/INSTALLED ACCORDING TO GENERALLY ACCEPTED INDUSTRY PRACTICES, STANDARDS, AND APPROVALS.
- DISSIMILAR METAL TYPES SUBJECT TO ELECTROLYTIC REACTION SHOULD BE PHYSICALLY SEPARATED.
- PA-1021 PLASTIC CEMENT, PA-828 FLASHING CEMENT, SFT CEMENT, OR PS-715 NS ELASTOMERIC SEALANT IS REQUIRED WHERE MASTIC IS INDICATED.
- REQUIREMENTS AND RECOMMENDATIONS DETAILED IN CURRENT SIPLAST SPECIFICATIONS SHALL APPLY IN ADDITION TO THE ABOVE DRAWING.

6 STAIRS / ELEVATOR SHAFT ROOF SECTION
3" = 1'-0"

NO.	DATE	DR	DSGN	REVISION	CHK	BY	APVD
						M. Johnson	
						M. Kussler	
						D. Richardson, Jr.	



Project Title:
FILTER BUILDING ROOF RETROFIT & SITE IMPROVEMENTS
Drawing Title:
MISCELLANEOUS DETAILS

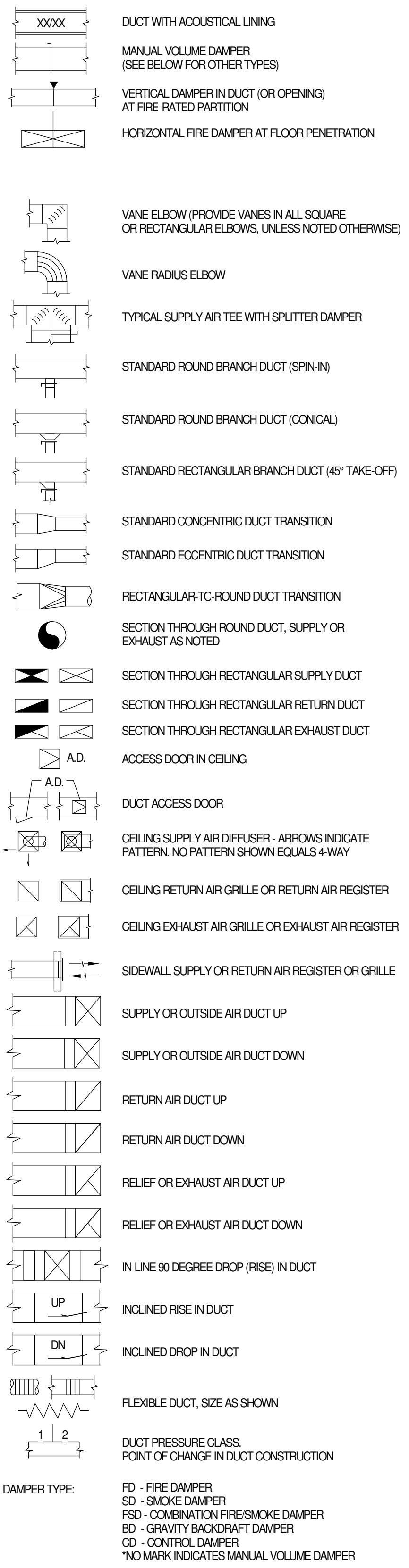
Date: 07/08/2022
Proj. No.: D3237903
Drawing No.:

FL-A-503

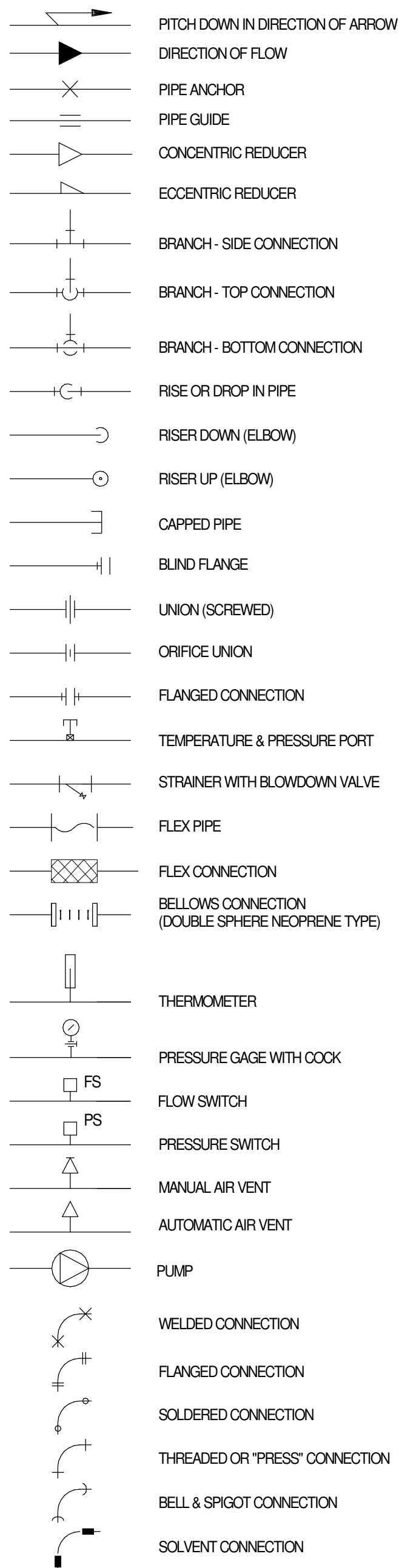
100% CD SET

MECHANICAL SYMBOL LEGEND (ALL SYMBOLS SHOWN ARE NOT NECESSARILY USED ON THE DRAWINGS)

DUCTWORK SYMBOLS



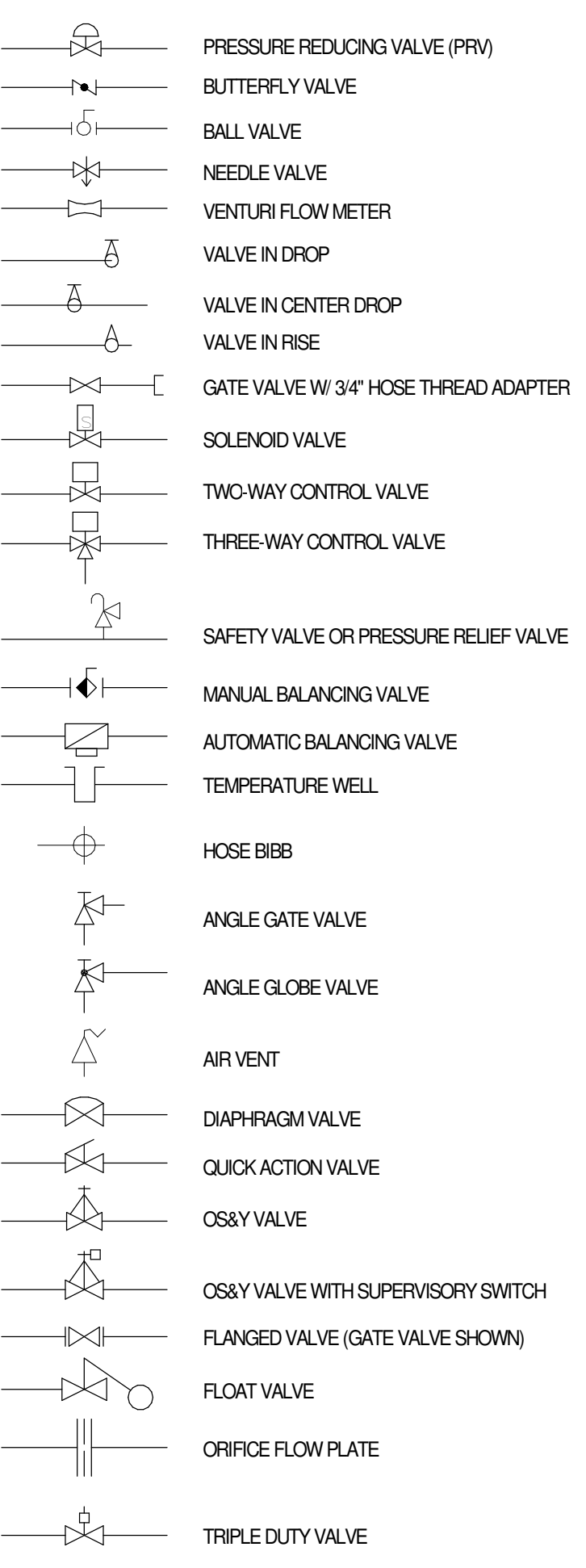
PIPING SYMBOLS



ABBREVIATIONS

AFF - ABOVE FINISHED FLOOR
CWP - CONDENSER WATER PUMP
CW - BUILDING CONDENSER WATER
CPVC - CHLORINATED POLYVINYL CHLORIDE
DN - DOWN
HDPE - HIGH DENSITY POLYETHYLENE
HWP - HOT WATER PUMP
HX - HEAT EXCHANGER
OA - OUTSIDE AIR
PCW - PLANT COOLING WATER
RA - RETURN AIR
SA - SUPPLY AIR
VAV - VARIABLE AIR VOLUME
VFD - VARIABLE SPEED DRIVE
VRF - VARIABLE REFRIGERANT FLOW
WSP - WATER SOURCE HEAT PUMP

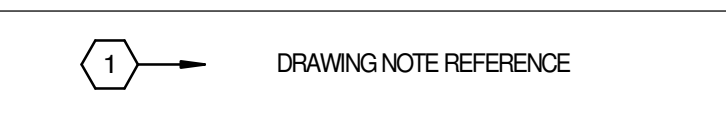
VALVE SYMBOLS (CON'T)



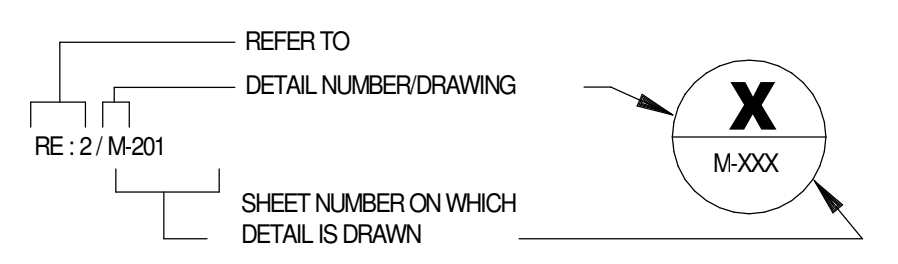
PIPING TYPE

CHWS - CHILLED WATER SUPPLY
CHWR - CHILLED WATER RETURN
HWS - HEATING WATER SUPPLY
HWR - HEATING WATER RETURN
CWS - CONDENSER WATER SUPPLY
CWR - CONDENSER WATER RETURN
CD - AHU CONDENSATE DRAIN
D - DRAIN
PCWR - PROCESS CHILLED WATER RETURN
PCWS - PROCESS CHILLED WATER SUPPLY
RL - REFRIGERANT LIQUID
RS - REFRIGERANT SUCTION
MU - MAKE-UP WATER
-X-X- AAA -X-X- PIPE TO BE REMOVED, "AAA" DENOTES TYPE
AAA - EXISTING PIPE, "AAA" DENOTES TYPE
- - - AAA - UNDERGROUND PIPE, "AAA" DENOTES TYPE
DTS - DUAL TEMPERATURE SUPPLY
DTR - DUAL TEMPERATURE RETURN

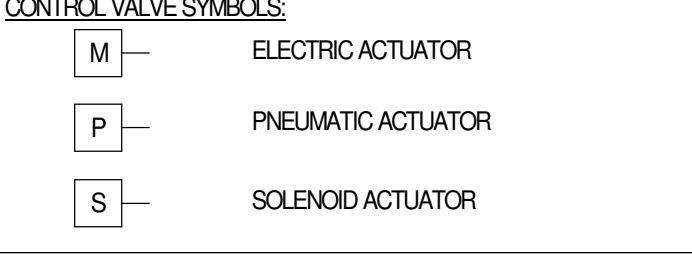
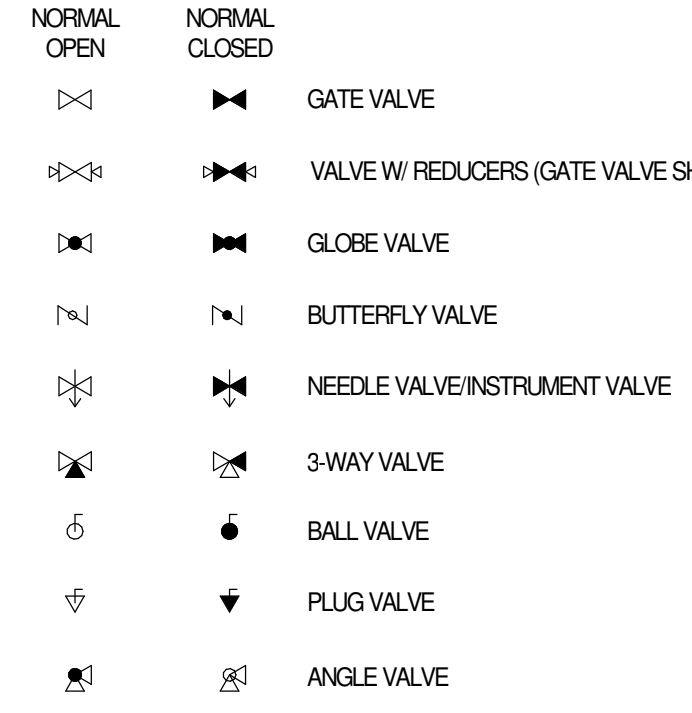
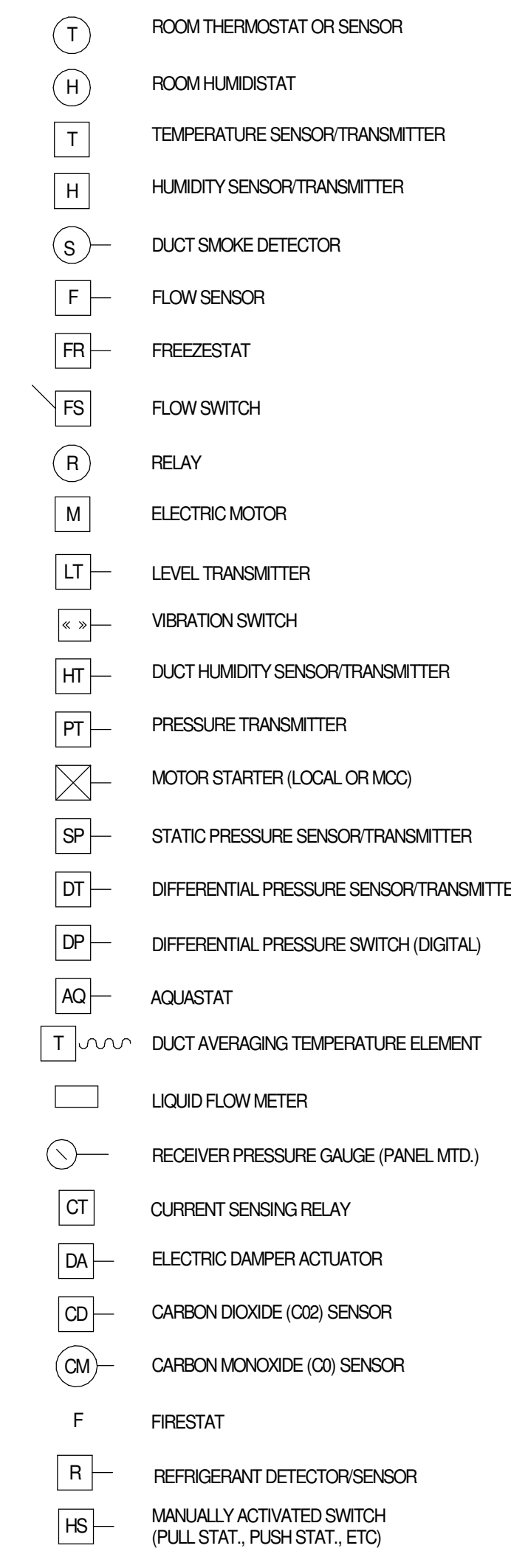
MISCELLANEOUS



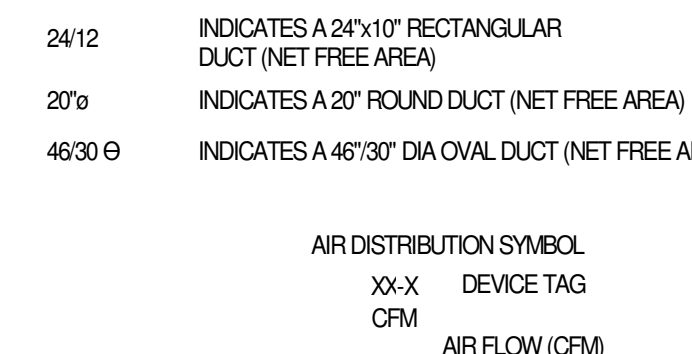
DRAWING/DETAIL REFERENCE KEY



CONTROLS SYMBOLS



EQUIPMENT TAG SYMBOLS



HVAC DESIGN CRITERIA

Table with HVAC design criteria including weather station, design conditions, and energy codes.

GENERAL NOTES

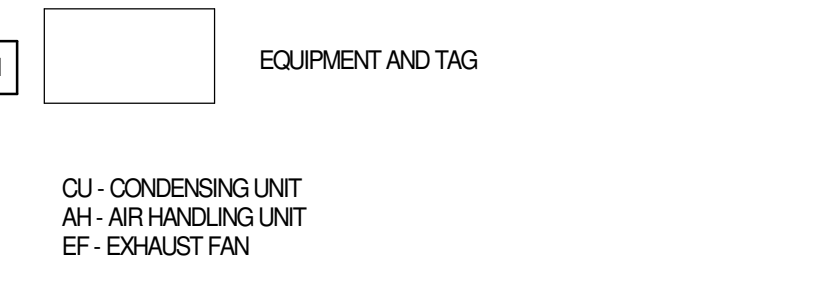
- 1. DRAWINGS ARE A GENERAL GRAPHIC REPRESENTATION OF THE WORK...
2. PROVIDE A COMPLETE SET OF SHOP DRAWINGS...
3. REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS FOR CONSTRUCTION...
4. COORDINATE LOCATION OF ALL PENETRATIONS WITH THE BUILDING STRUCTURE...
5. REFER TO ARCHITECTURE FOR PENETRATION DETAILS THROUGH BUILDING ENVELOPE...
6. PERFORM WORK IN ACCORDANCE WITH THE LATEST EDITIONS, REVISIONS, AMENDMENTS, OR SUPPLEMENTS OF APPLICABLE STATUTES, ORDINANCES, CODES, OR REGULATIONS OF FEDERAL, STATE, AND LOCAL AUTHORITIES HAVING JURISDICTION...
7. WHERE APPROVAL CODES HAVE BEEN ESTABLISHED BY CSHA, UNDERWRITERS LABORATORY, AMERICAN COEDS, ANSL, ASME, ABAQ, ASHRAE, ASTM, ARI, NEC, NFPA, SMACNA, OR THE STATE FIRE INSURANCE REGULATORY BODY, FOLLOW THESE STANDARDS WHETHER OR NOT INDICATED ON THE DRAWINGS...
8. COORDINATE WORK WITH ARCHITECTURAL FEATURES AND COORDINATE WORK SUCH THAT THE INTERFERENCES BETWEEN PIPING, DUCTWORK, EQUIPMENT, PLUMBING WORK, ELECTRICAL WORK, AND BUILDING STRUCTURE WILL BE AVOIDED...
9. PROVIDE ALL WIRING AND ELECTRICAL CONTROLS IN ACCORDANCE WITH NFPA 70 (NEC)...
10. DO NOT SCALE THESE DRAWINGS FOR CONSTRUCTION PURPOSES...
11. PAINT ANY ABOVE CEILING ITEMS, WHICH CAN BE SEEN THROUGH AIR SLOTS OR GRILLES, FLAT BLACK...
12. PROVIDE PLENUM RATED CABLE, DEVICES, PIPING, ETC. IN PLENUM SPACE...
13. PROVIDE TEMPORARY 30% EFFICIENT, 2" THICK FILTERS OVER RETURN AIR OPENINGS OF ANY AHUS WHICH ARE PLACED IN SERVICE PRIOR TO COMPLETION OF CONSTRUCTION. REMOVE FILTERS FOR TEST AND BALANCE...
14. DUCT AND PIPE HANGERS AND SUPPORTS IN UNCONDITIONED SPACE OR EXTERIOR TO BUILDING SHALL BE GALVANIZED STEEL...
15. PROVIDE DUCT ACCESS PANELS FOR ALL DAMPER ACTUATORS AND MOTORS LOCATED INSIDE DUCT OR FAN HOUSINGS...
16. REFER TO STRUCTURAL DRAWINGS FOR FRAMING REQUIRED AROUND PIPES AND DUCTS PENETRATING ROOFS, WALLS, AND FLOOR...
17. PROVIDE ACCESS AND CLEARANCE FOR MAINTENANCE FOR MECHANICAL EQUIPMENT AND COMPONENTS AS RECOMMENDED BY EQUIPMENT MANUFACTURER AND APPLICABLE CODES...
18. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF DIFFUSERS, REGISTERS, GRILLES, AND ACCESS PANELS...
19. ALL DUCT DIMENSIONS AS SHOWN ON MECHANICAL DRAWINGS ARE CLEAR INSIDE DIMENSIONS...
20. COORDINATE EQUIPMENT PAD LOCATIONS AND SIZES WITH ACTUAL EQUIPMENT PROCURED...
21. INSTALL MANUAL AIR VENTS AT HIGH POINTS IN PIPING...
22. SQUARE ELBOWS IN DUCTWORK SHALL HAVE TURNING VANES...
23. ALL DUCT AND PIPE TRANSITIONS, TURNS, AND OFFSETS ARE NOT SHOWN. PROVIDE THESE ITEMS AS REQUIRED FOR A COMPLETE SYSTEM...
24. PROVIDE MANUAL VOLUME DAMPERS AT EACH DUCT MAIN, SUB-MAIN, AND BRANCH TAKE-OFF WHETHER OR NOT THEY ARE SHOWN ON DRAWINGS. PROVIDE CEILING ACCESS FOR ALL DAMPERS...
25. OVER-HEAD UTILITIES AND EQUIPMENT WEIGHING 3 LBS OR MORE SHALL BE MOUNTED SO THAT THEY RESIST 0.5 TIMES THE COMPONENT WEIGHT IN ANY HORIZONTAL DIRECTION AND 1.5 TIMES COMPONENT WEIGHT IN THE DOWNWARD DIRECTION. THIS SHALL BE ACCOMPLISHED BY EITHER RIGID OR FLEXIBLE SYSTEMS. REFER TO SECTION 13.40 (0.00) 10 FOR REQUIREMENTS...
26. HANDLE, STORE, AND INSTALL EQUIPMENT ACCORDING TO MANUFACTURERS INSTRUCTIONS...
27. COORDINATE WITH ELECTRICAL AND CONTROLS CONTRACTOR FOR POWER REQUIREMENTS TO ALL MECHANICAL EQUIPMENT PRIOR TO ORDERING ANY EQUIPMENT. CONTRACTORS ARE FREE TO USE ANY PRODUCT WHICH MEETS THE GOVERNMENT'S MINIMUM REQUIREMENTS AND NOT IN CONFLICT WITH OTHER CONTRACT PROVISIONS. UNLESS INDICATED OTHERWISE ON THE PLANS OR SPECIFICATIONS (E.G. SOLE SOURCE), ALL LISTED MANUFACTURERS ARE THE BASIS OF DESIGN. FOR THESE BASIS OF DESIGN PRODUCTS, OTHER MANUFACTURERS MAY BE SUBSTITUTED AS LONG AS THE STANDARD OF QUALITY AND CHARACTERISTICS OF THE SUBSTITUTED MANUFACTURER MEET OR EXCEED THE STANDARD OF QUALITY AND CHARACTERISTICS OF THE BASIS OF DESIGN.

MECHANICAL SCOPE OF WORK

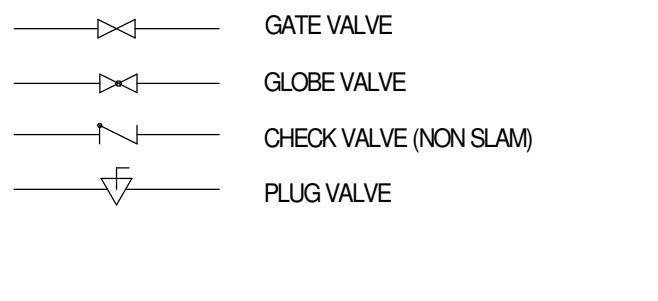
THE PROJECT INCLUDE THE RELOCATION OF TWO TRANE, MODEL TTA150B400BC (12.5 TON) CONDENSER UNITS CURRENTLY LOCATED ON THE ROOF. THE CONDENSERS ARE ASSOCIATED WITH TWO AIR-HANDLER UNITS LOCATED IN THE SECOND FLOOR CEILING. THE TWO CONDENSERS WILL BE RELOCATED ON THE GROUND NORTH SIDE OF THE BUILDING AS SHOWN IN THE DRAWINGS. THE AIR HANDLERS ASSOCIATED TO THE CONDENSERS WILL REMAIN IN PLACE AS IS. THE CONTRACTOR SHALL ROUTE NEW REFRIGERANT PIPING IN THE FIELD ACCORDINGLY TO MAINTAIN A MINIMUM EQUIVALENT LENGTH OF 120 FEET BETWEEN INDOOR AND OUTDOOR UNITS. INSPECT INSTALLATION INCLUDING POWER CONNECTIONS, SUPERVISE INITIAL OPERATION, CALIBRATION OF OPERATION AND SAFETY CONTROLS AND SUPERVISE ELECTRICAL TESTING. TEST AND BALANCE OF THE AIR HANDLERS AND ASSOCIATED DUCTWORK IS NOT REQUIRED.

THE FILTERS, CHANNELS AND PIPE GALLERY WILL BE PROVIDED WITH CONTINUOUS VENTILATION AT A RATE OF 6 AIR CHANGES PER HOUR. THE VENTILATION SYSTEM WILL INCLUDE TWO WALL MOUNTED EXHAUST FANS LOCATED IN THE EAST EXTERIOR WALL OF THE PIPE GALLERY. LOUVERS IN THE EXTERIOR WALL OF THE FILTERS AND CHANNELS AND OPENINGS IN THE WALLS DIVIDING THE FILTERS AND THE PIPE GALLERY TO ALLOW AIRFLOW FROM OUTSIDE THROUGHOUT THE SPACES. THE SYSTEM WILL BE CONTROLLED VIA LOCAL ON/OFF SWITCHES.

EQUIPMENT SYMBOLS AND TAGS

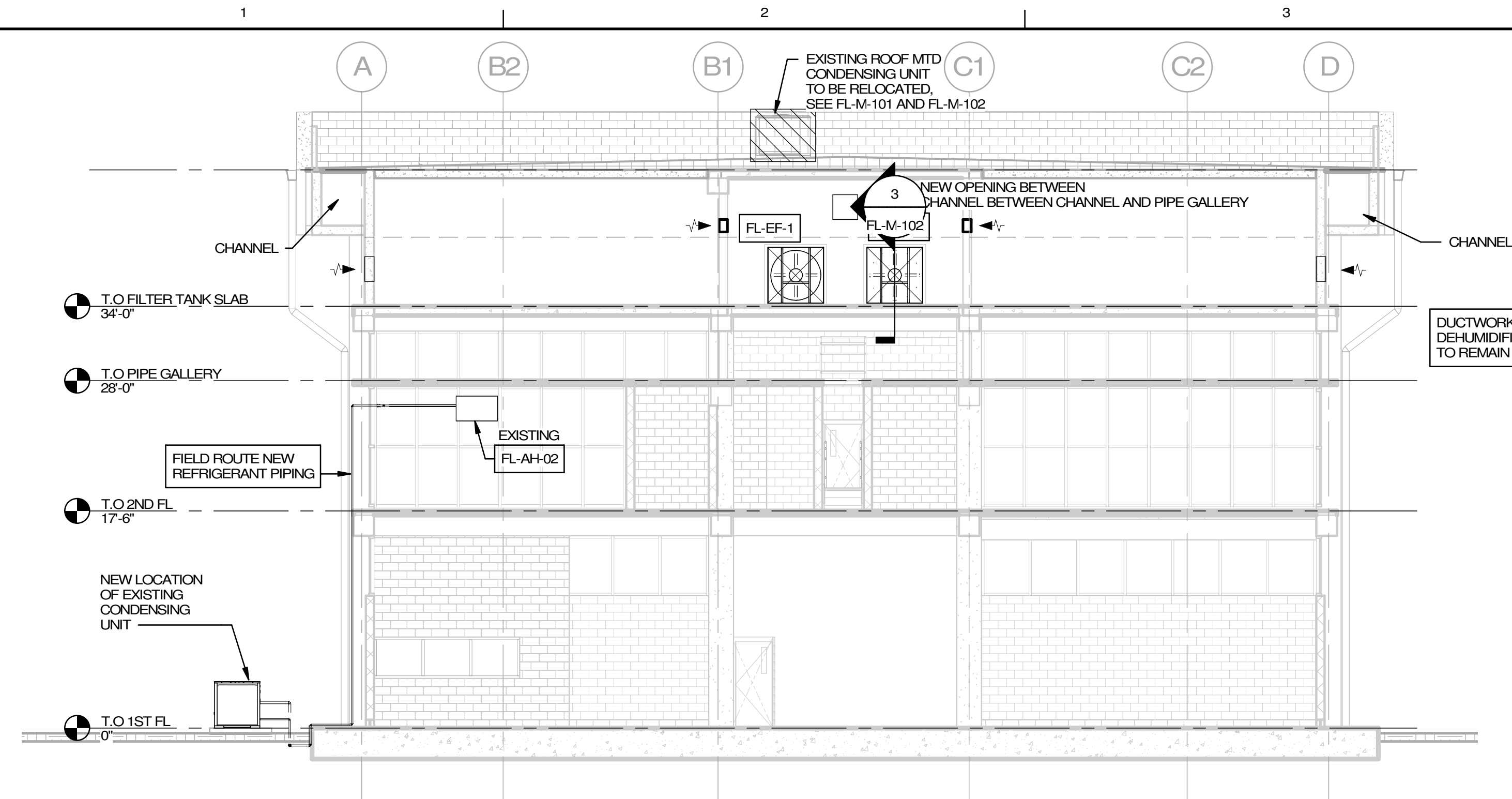


VALVE SYMBOLS



Project Title: FILTER BUILDING ROOF RETROFIT & SITE IMPROVEMENTS
Drawing Title: MECHANICAL LEGEND

Date: 07/08/2022
Proj. No.: D3237903
Drawing No.: FL-M-001



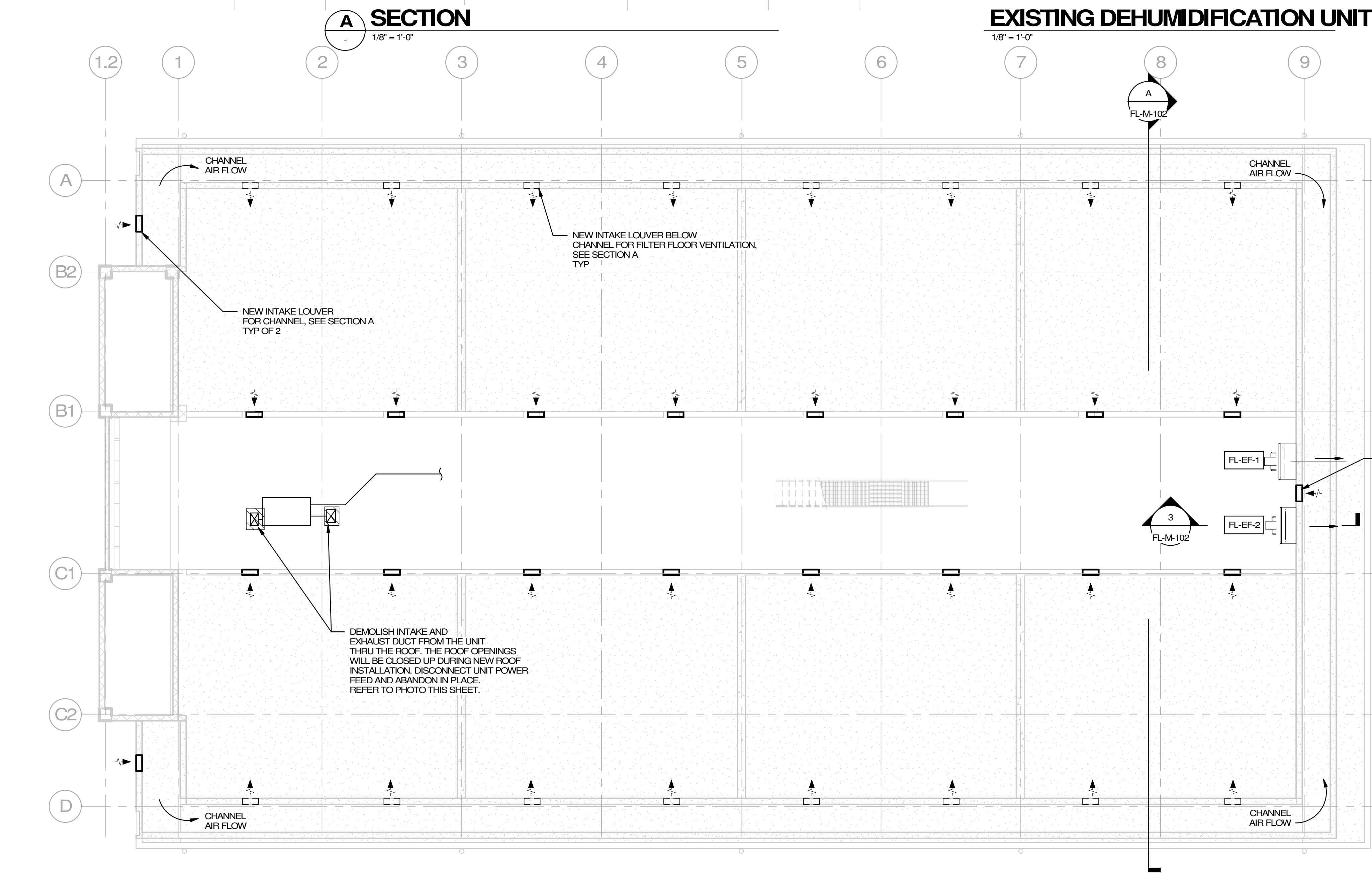
EXISTING DEHUMIDIFICATION UNIT
1/8" = 1'-0"

FANS			
SYMBOL	FL-EF-1 & 2		
LOCATION	FILTER GALLERY		
TYPE	WALL PROPELLER HEAVY DUTY		
FAN DATA	AIRFLOW	MAX CFM	11,250
		@ SP IN W.G.	0.5
	MIN CFM	0	
	SPEED RPM	859	
	DRIVE TYPE	DIRECT	
WHEEL	TYPE	PROPELLER	
	MIN... INCH	47.78	
	MAXIMUM BHP	1.55	
SOUND DATA	SOUND POWER... dB (RE 10-12 W)	63	90
		125	87
		250	91
	@ MID OCTAVE... FREQUENCY (Hz)	500	92
		1K	89
		2K	84
ELECTRICAL DATA	MOTOR	HP	2
		RPM	900
		ENCL	TEFC
	VOLT	460	
PH	3		
MAXIMUM DIMENSIONS	LENGTH INCHES	28 1/8	
	WIDTH INCHES	54	
	HEIGHT INCHES	54	
	WEIGHT LBS	575	
MANUFACTURER	AEROVENT		
MODEL NO.	DDP 48B306		
APPLICABLE REMARKS:	A THRU G		
REMARKS:	<p>A: MOTOR STARTER PER MANUFACTURER</p> <p>B: DISCONNECT PER MANUFACTURER</p> <p>C: ALL ALUMINUM CONSTRUCTION</p> <p>D: SQUARE GUARD MOTOR SIDE</p> <p>E: GRAVITY DAMPER</p> <p>F: 316 SST HARDWARE</p> <p>G: MOUNTING ADAPTOR</p>		

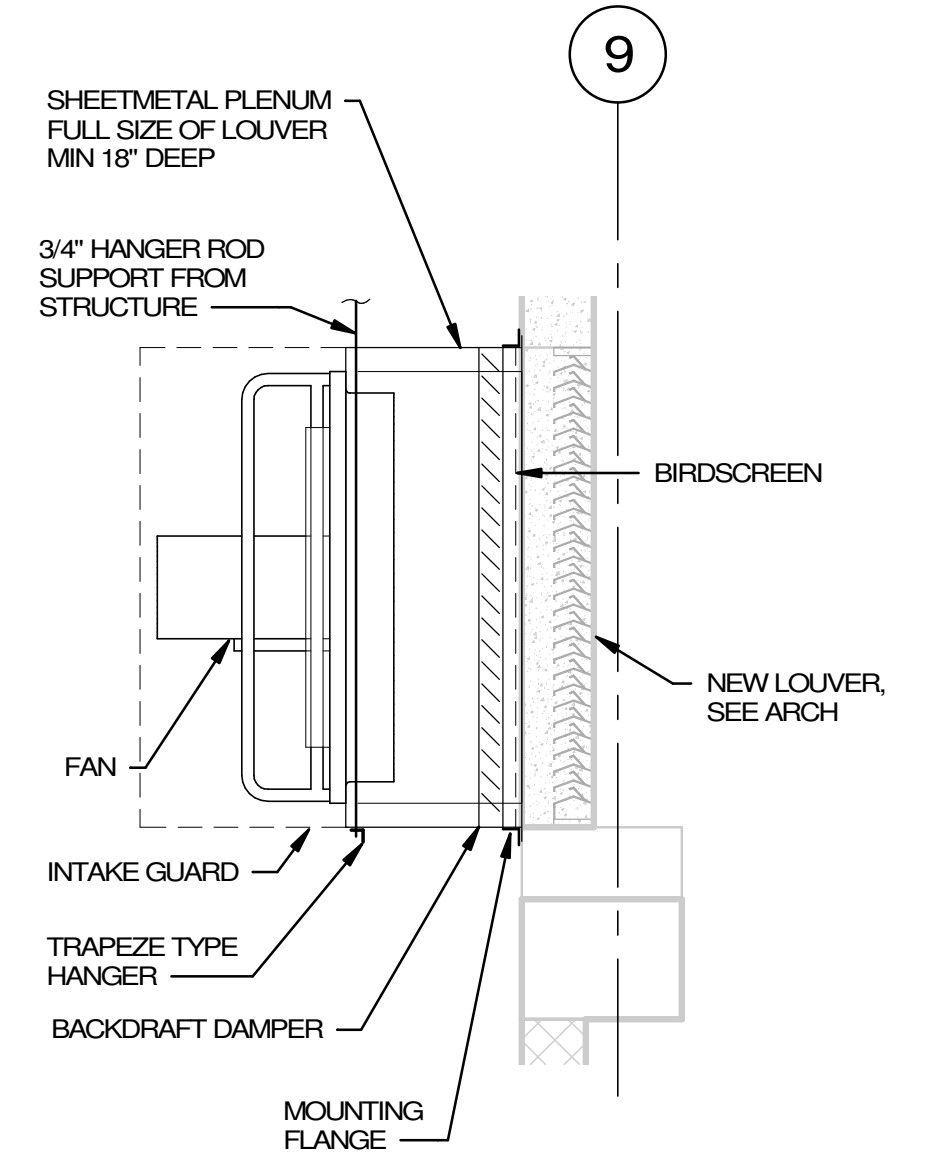
GENERAL NOTES:

- MECHANICAL WORK SHALL COMPLY WITH ALL APPLICABLE CODES. VERIFY REQUIREMENTS PRIOR TO COMMENCING WORK
- FIELD VERIFY FAN INSTALLATION LOCATION AND MODIFY ACCORDINGLY WITH ENGINEER AUTHORIZATION.

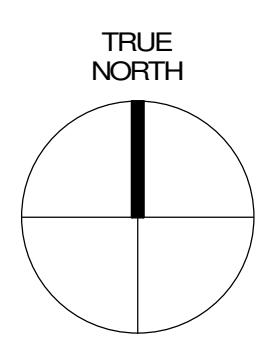
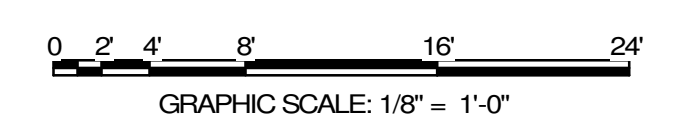
Jacobs
5401 W. KENNEDY BLVD.
STE 300 & 900
Tampa, FL 33609
P:(813) 282-3500
www.jacobs.com



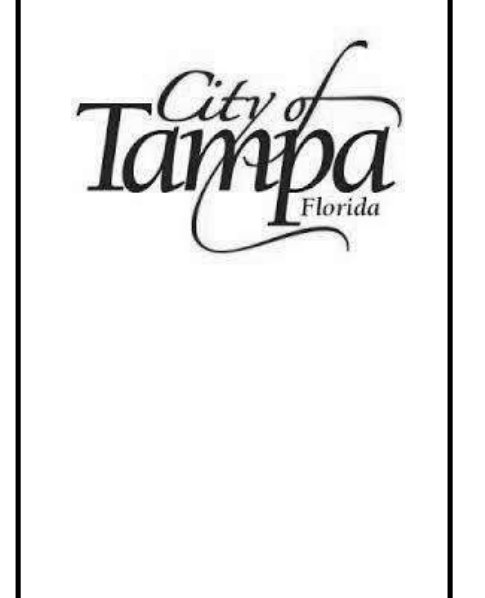
FILTER TANK LEVEL FLOOR PLAN
1/8" = 1'-0"



3 WALL MTD FAN
1/2" = 1'-0"



NO.	DATE	BY	AP/VD	APPROVER



Project Title: FILTER BUILDING ROOF RETROFIT & SITE IMPROVEMENTS
 Drawing Title: FILTER TANK LEVEL FLOOR PLAN AND SECTIONS AND FAN SCHEDULE
 Date: 07/08/2022
 Proj. No.: D3237903
 Drawing No.: FL-M-102

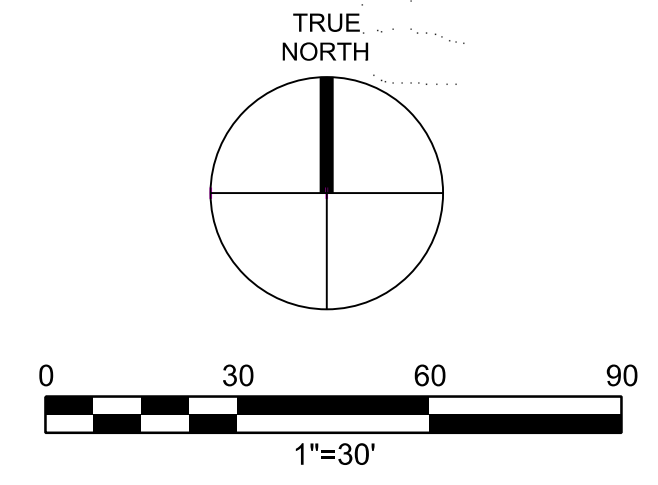


PHOTO DETAIL: GRAVITY THICKENER TANK TO BE DEMOLISHED

GENERAL NOTES

1. BACKGROUND DRAWING IMAGE TAKEN FROM WATSON/ROBERT & COMPANY CONTRACT WP-4 CONSTRUCTION AS BUILTS DATED 2-17-76. THIS DRAWING BACKGROUND IS FROM SHEET M-1.
2. PROCESS MECHANICAL LEGEND DWG FL-D-100A FOR DEMOLITION COLOR CODING.
3. COORDINATE WITH ENGINEER TO LOCATE ALL EQUIPMENT, UNDERGROUND ELECTRIC UNDERGROUND PIPING, AND BUILDING FACILITIES AND/OR APPURTENANCES TO REMAIN PRIOR TO ANY DEMOLITION ACTIVITY.
4. COORDINATE WITH ENGINEER FOR TEMPORARY PIPING REQUIREMENTS AND SEQUENCE OF DEMOLITION REQUIRED PRIOR TO ANY DEMOLITION ACTIVITY.
5. THIS DRAWING DOES NOT DEPICT THE DEMOLITION WORK OF OTHER DISCIPLINES. COORDINATE DEMOLITION WORK OF THIS DRAWING WITH CIVIL DEMOLITION DRAWING S2-C-102 AND ARCHITECTURAL DEMOLITION DRAWING A-101.

SHEET KEYNOTES

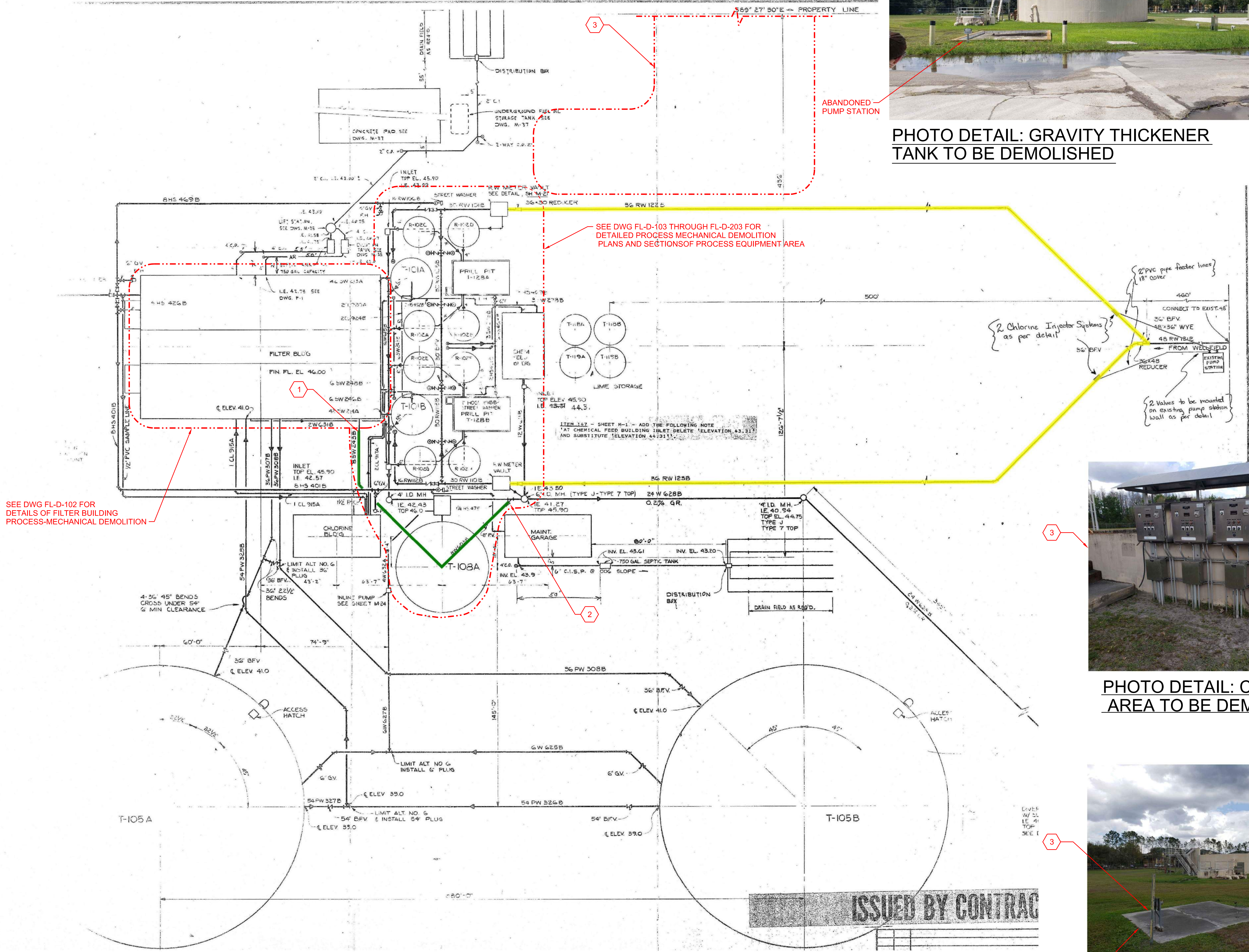
- 1 CUT PIPE 5 FEET FROM BUILDING FACE AND INSTALL CAP ON STUB PIPE TO BUILDING.
- 2 CUT PIPE AND INSTALL CAP SEE KEYNOTE 5 ON DRAWING FL-D-103.
- 3 ALL PIPING FROM STRUCTURES DEMOLISHED IN THIS AREA ARE TO BE CUT AND CAPPED A MINIMUM OF 3 FEET BELOW GRADE.



PHOTO DETAIL: CHEMICAL CONTAINMENT AREA TO BE DEMOLISHED



PHOTO DETAIL: PUMP STATION TO BE DEMOLISHED



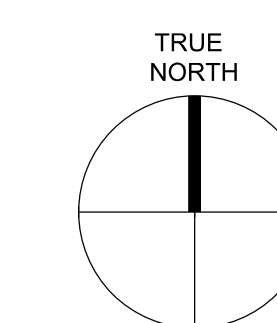
YARD PIPING DEMOLITION PLAN

NO.	DATE	DR	CHK	REVISION	BY	APVD



Project Title: **FILTER BUILDING ROOF RETROFIT & SITE IMPROVEMENTS**
 Drawing Title: **SITE 2 DEMOLITION YARD PIPING PLAN**

Date: 07/08/2022
 Proj. No.: D3237903
 Drawing No.: FL-D-101

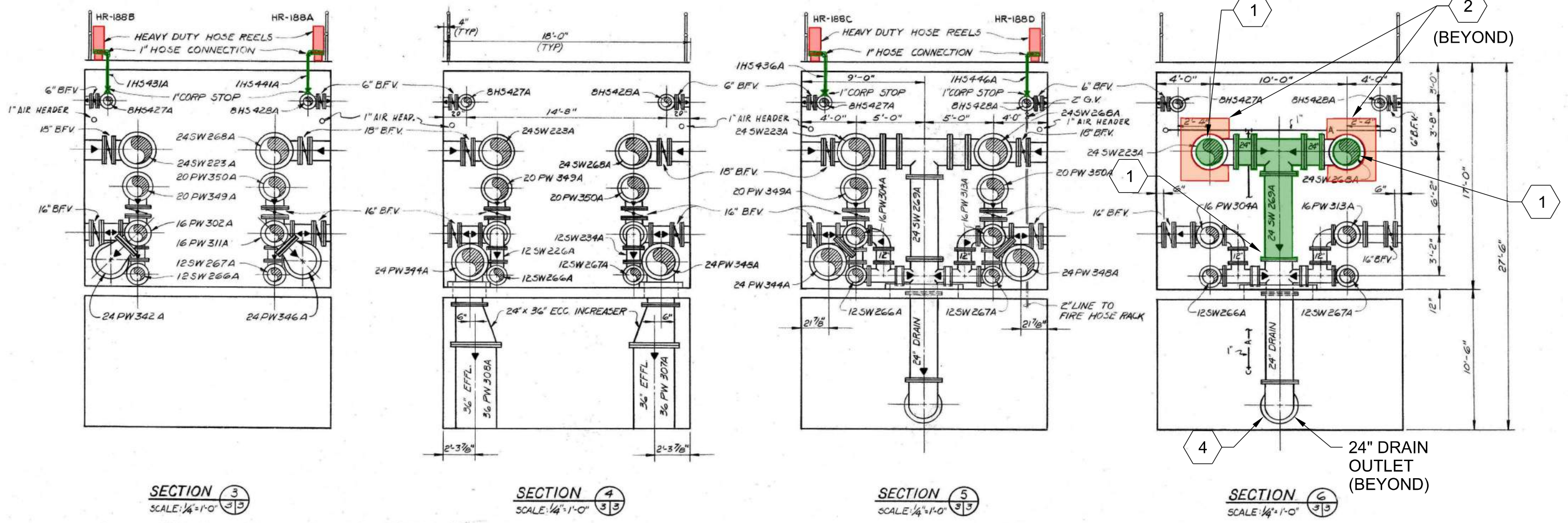
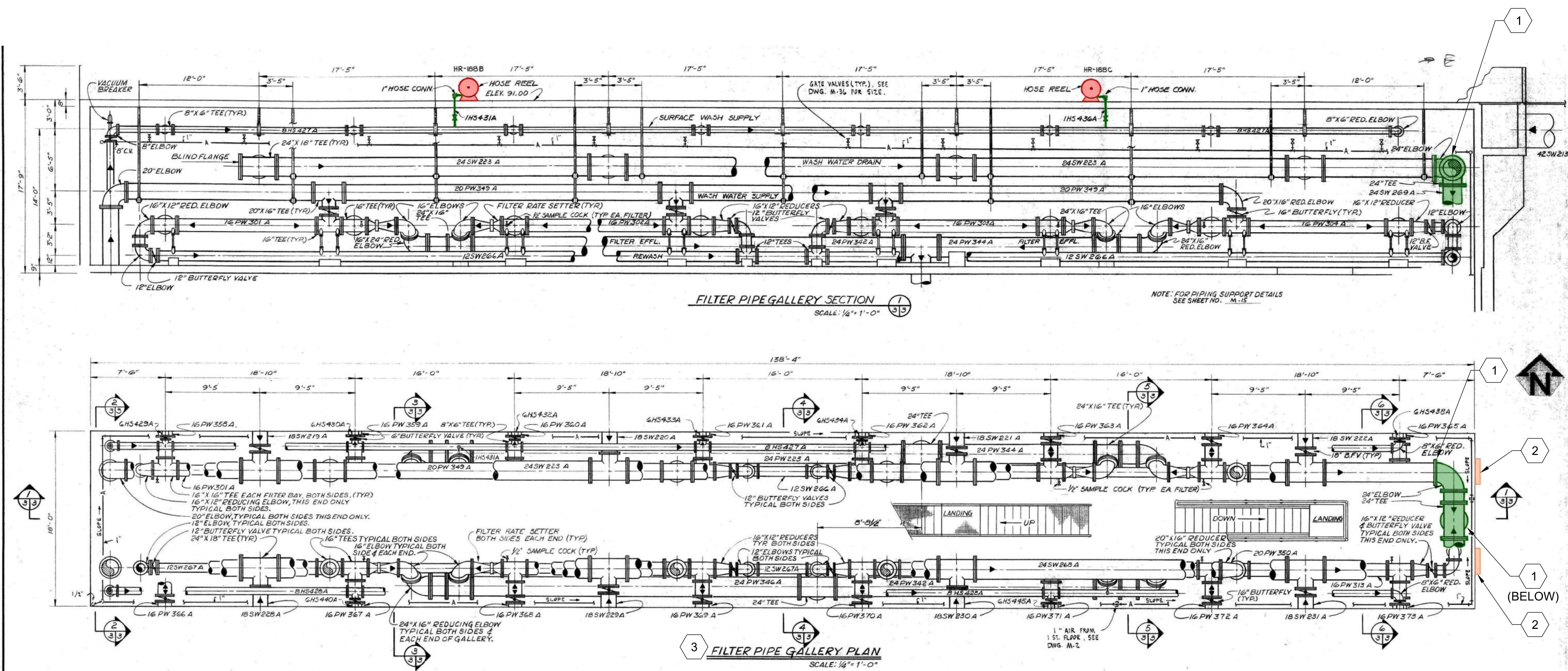


GENERAL NOTES

- BACKGROUND DRAWING IMAGE TAKEN FROM WATSON/ROBERT & COMPANY CONTRACT WP-4 CONSTRUCTION AS BUILTS DATED 2-17-76. THIS DRAWING BACKGROUND IS FROM SHEET M-3.
- DRAWING SCALE LISTED IS NOT GUARANTEED TO BE ACCURATE DUE TO REPRODUCTION PROCESS USED.
- SEE PROCESS MECHANICAL LEGEND DWG FL-D-100A FOR DEMOLITION COLOR CODING.

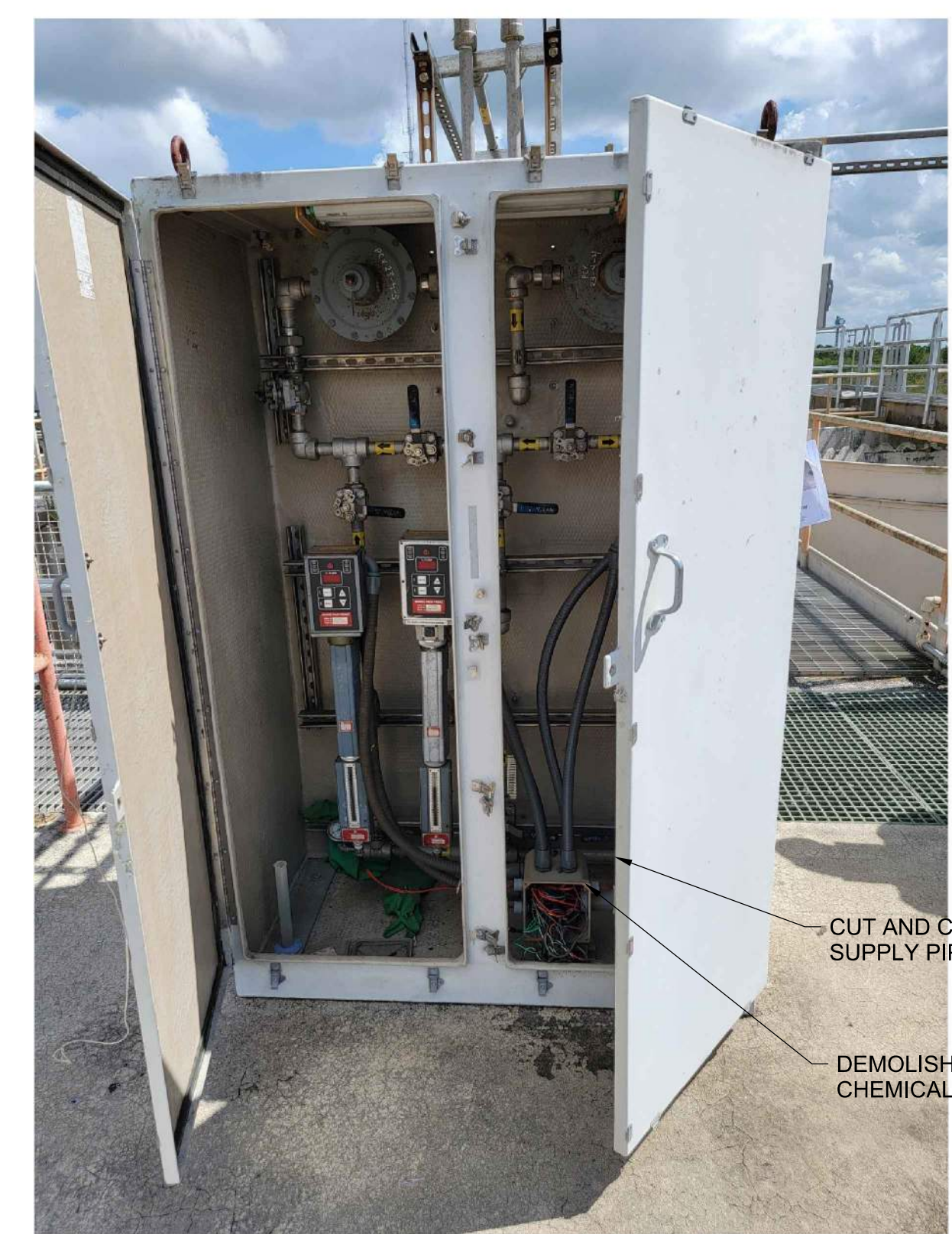
SHEET KEYNOTES

- INSTALL FABRICATED ALUMINUM PLATE FLANGE AND GASKET ON FLANGE END TO REMAIN. BLIND FITTING: T6061 GRADE ALUMINUM, 3/16" THICK WITH 29.5" BOLT CIRCLE DIAMETER. SECURE BLIND TO ADJACENT FLANGE W/ASTM A307 GRADE B HEX HEAD BOLTS, A563 GRADE A HEX HEAD NUTS, AND F436 HARDENED STEEL WASHERS.
- SAW CUT 60" x 60" OPENINGS IN WALL TO ACCOMMODATE REMOVAL OF DEMOLISHED PIPE AND FITTINGS FROM BUILDING. COORDINATE WALL OPENING LOCATIONS WITH SECTION 1 ON DRAWING A-302. OPENINGS TO BE FITTED WITH NEW MOTORIZED EXHAUST FANS AND LOUVERS.
- EXERCISE CARE NOT TO DAMAGE ANY EQUIPMENT OR FILTER BUILDING COMPONENTS NOT SCHEDULED FOR DEMOLITION.
- SEE DRAWING FL-D-105 FOR REQUIREMENTS FOR PIPING MODIFICATION(S) TO MAINTAIN ACTIVE DRAINAGE FOR FILTER BAYS UNTIL ROOF CONSTRUCTION IS COMPLETE.



FILTER BUILDING DEMOLITION - ENLARGED PLAN AND SECTIONS

1/8"=1'-0" (APPROXIMATE)



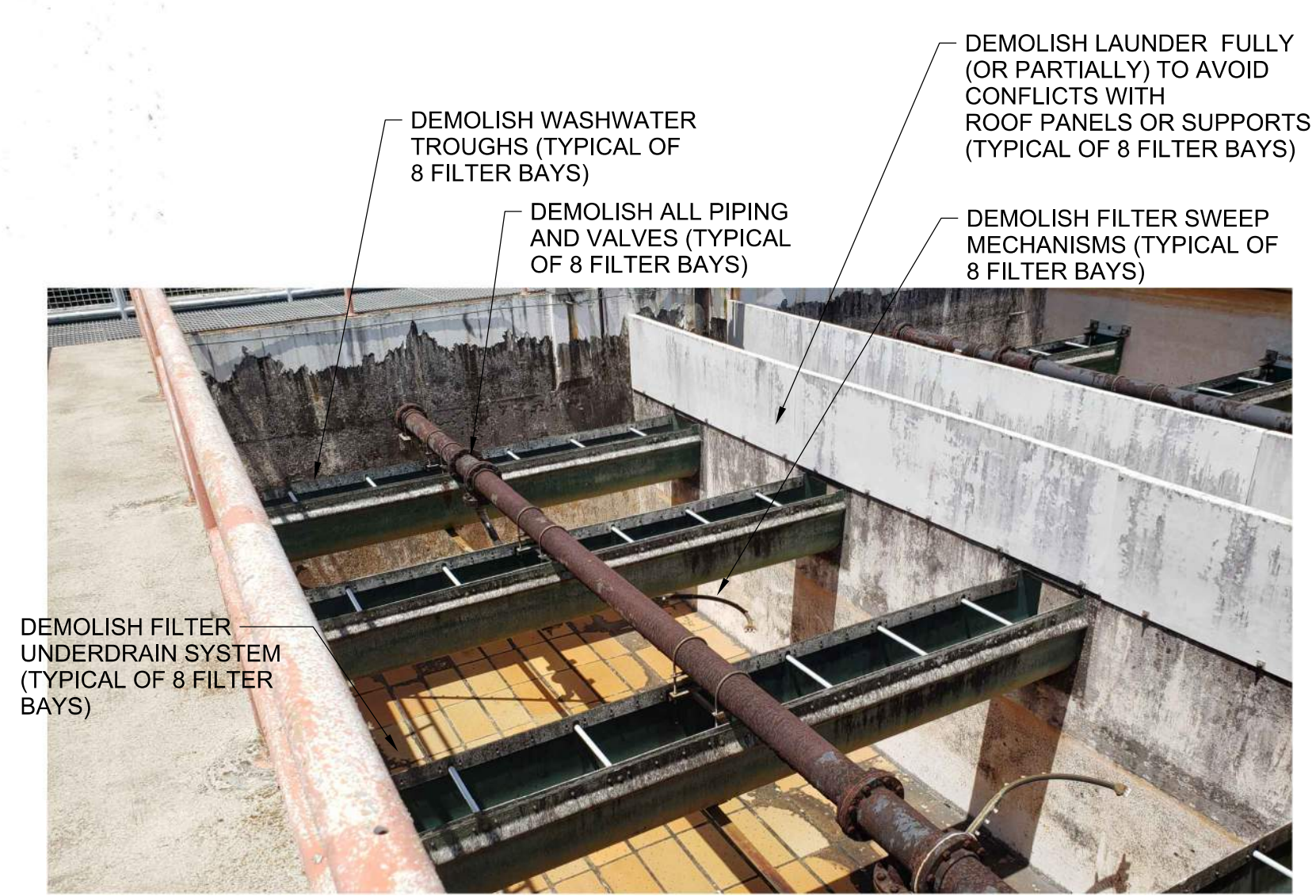
CUT AND CAP SUPPLY PIPING

DEMOLISH PROCESS CHEMICAL FEED STATION

NOTE: SEE DRAWING S2-EPD-102 FOR ROOF TOP LOCATION.

PHOTO DETAIL: PROCESS CHEMICAL FEED STATION TO BE DEMOLISHED

NTS



NOTE: SEE DRAWING A-201 FOR FILTER BAY PLAN AND PHOTO LOCATION.

PHOTO DETAIL: ROOF TOP VIEW OF FILTER BAY EQUIPMENT ITEMS TO BE DEMOLISHED

NTS

NO.	DATE	DR	CHK	REVISION	BY



Project Title: **FILTER BUILDING ROOF RETROFIT & SITE IMPROVEMENTS**

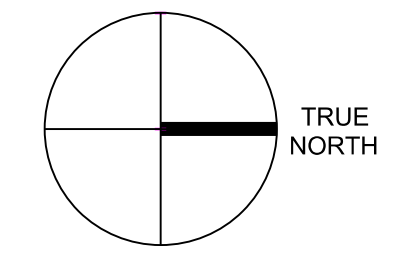
Drawing Title: **SITE 2 FILTER PIPE GALLERY DEMOLITION PLAN AND SECTIONS**

Date: 07/08/2022

Proj. No.: D3237903

Drawing No.: FL-D-102

100% CD SET

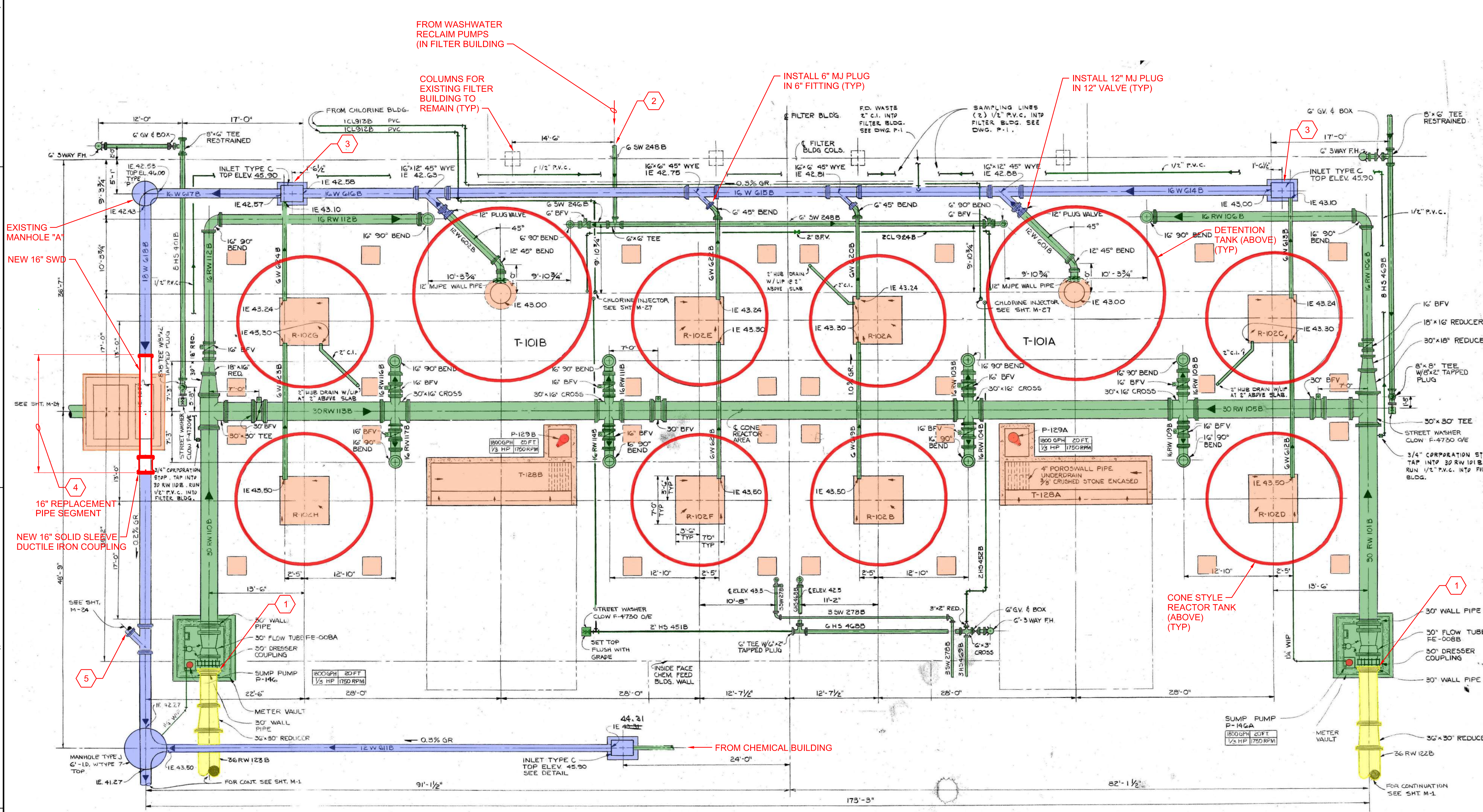


GENERAL NOTES

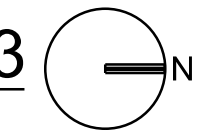
1. BACKGROUND DRAWING IMAGE TAKEN FROM WATSON/ROBERT & COMPANY CONTRACT AS-BUILTS DATED 2-17-76. THIS DRAWING BACKGROUND IS FROM DRAWING M-10.
2. DRAWING SCALE LISTED IS NOT GUARANTEED TO BE ACCURATE DUE TO REPRODUCTION PROCESS USED.
3. SEE MECHANICAL LEGEND DWG FL-D-100 FOR DEMOLITION COLOR CODING.
4. SEE SHEET C210 FOR CONCRETE FLOOR SLAB AREA/DEMOLITION LIMITS.
5. EXERCISE CARE NOT TO DAMAGE ANY EQUIPMENT, UNDERGROUND ELEC/PIPING OR BUILDING COMPONENTS WHICH ARE NOT SCHEDULED FOR DEMOLITION.

SHEET KEYNOTES

1. 30"/36" PIPE GROUT FILLED FROM THIS POINT EASTWARD. ADD NON-SHRINK GROUT AS REQUIRED TO ENSURE A COMPLETE SEAL AT THE END OF THE DECOMMISSIONED PIPING.
2. CUT AND REMOVE 6" PIPING WESTWARD TO WITHIN 5' OF FILTER BLDG. FACILITY.
3. THOROUGHLY FLUSH INLET BOX AND DOWNSTREAM PIPING WITH HYDRANT FLOW TO OUTLET OF PIPING AT STORMWATER RETENTION PONDS. UTILIZE THIS DROP INLET STRUCTURE FOR TEMPORARY DISCHARGE TERMINUS FOR ROOF DRAINAGE. SEE DWG FL-D-105.
4. CUT AND REMOVE EXISTING PIPING (EACH SIDE) 3'-0" FROM OUTSIDE FACE OF BOX. FOLLOWING DEMOLITION OF BOX INSTALL NEW 16" PIPE SEGMENT (MJEPE) ALONG WITH A TEE 16" DUCTILE IRON SOLID SLEEVE COUPLING BETWEEN CUT ENDS TO RESTORE PIPE CONTINUITY.
5. CUT PIPE AND INSTALL CAP IN WYE LATERAL BRAND END. SEE DRAWING FL-D-101 FOR CONTINUATION OF PIPING TO BE DEMOLISHED.



**TREATMENT EQUIPMENT AREA
DEMOLITION PLAN BELOW ELEVATION 43**
1/8"=1'-0" (APPROXIMATE)



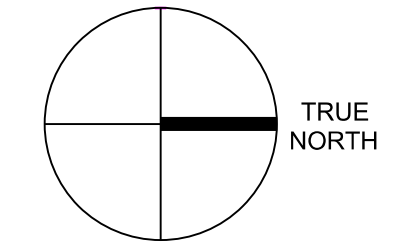
NO.	DATE	DR	CHK	REVISION	BY	APVD



Project Title:
**FILTER BUILDING ROOF RETROFIT &
SITE IMPROVEMENTS**

Drawing Title:
**SITE 2
REACTOR AREA DEMOLITION
PLAN**

Date:	07/08/2022
Proj. No.:	D3237903
Drawing No.:	FL-D-103

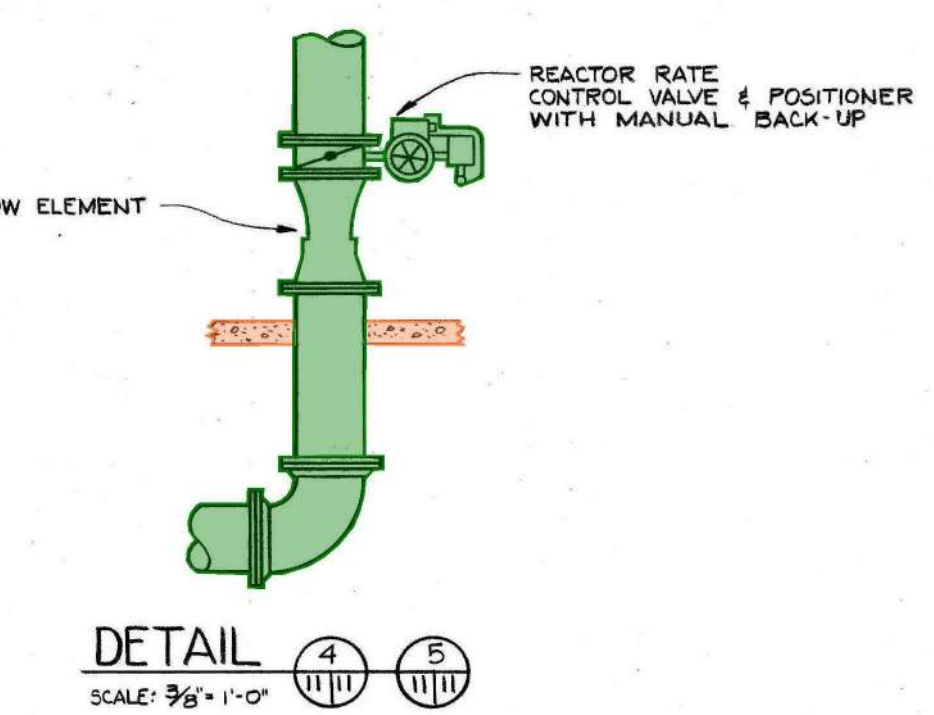
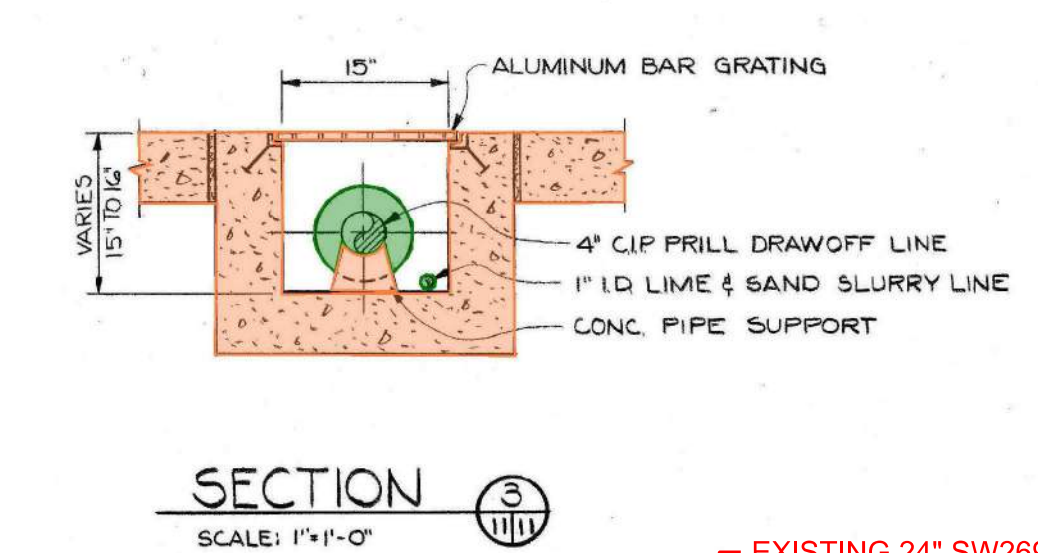
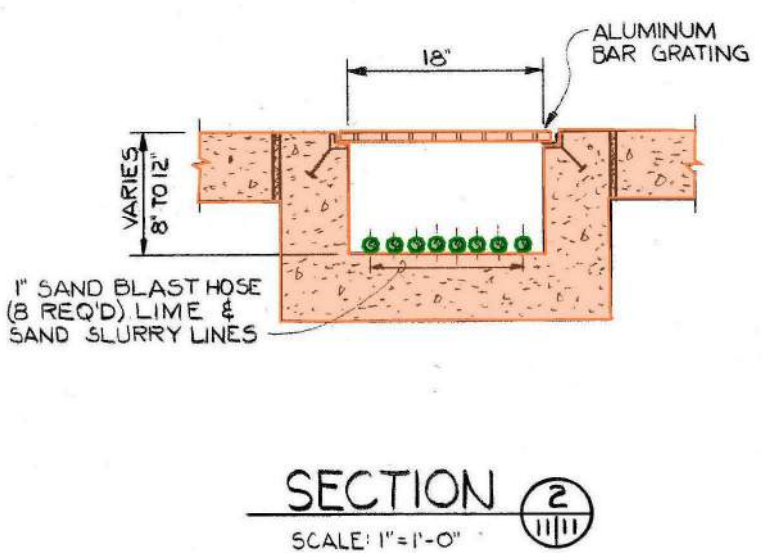
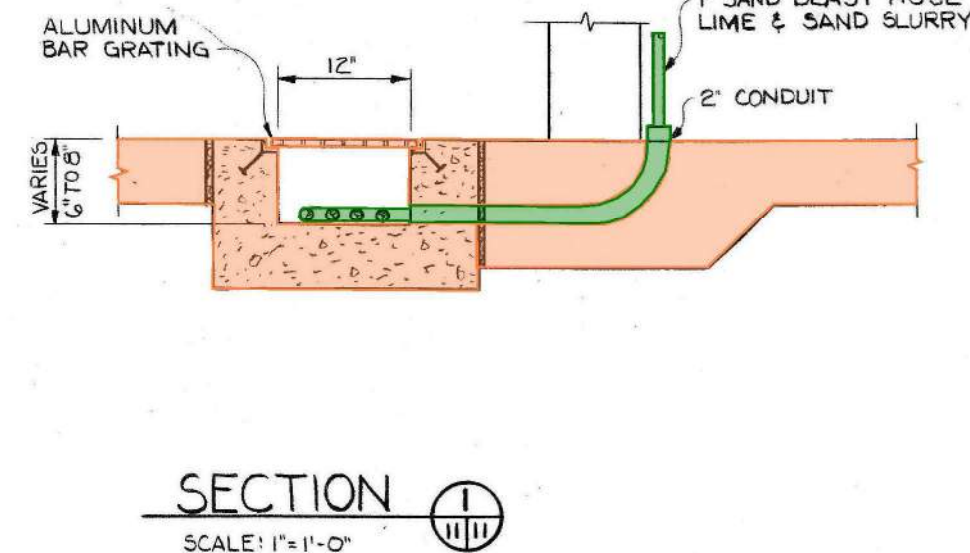
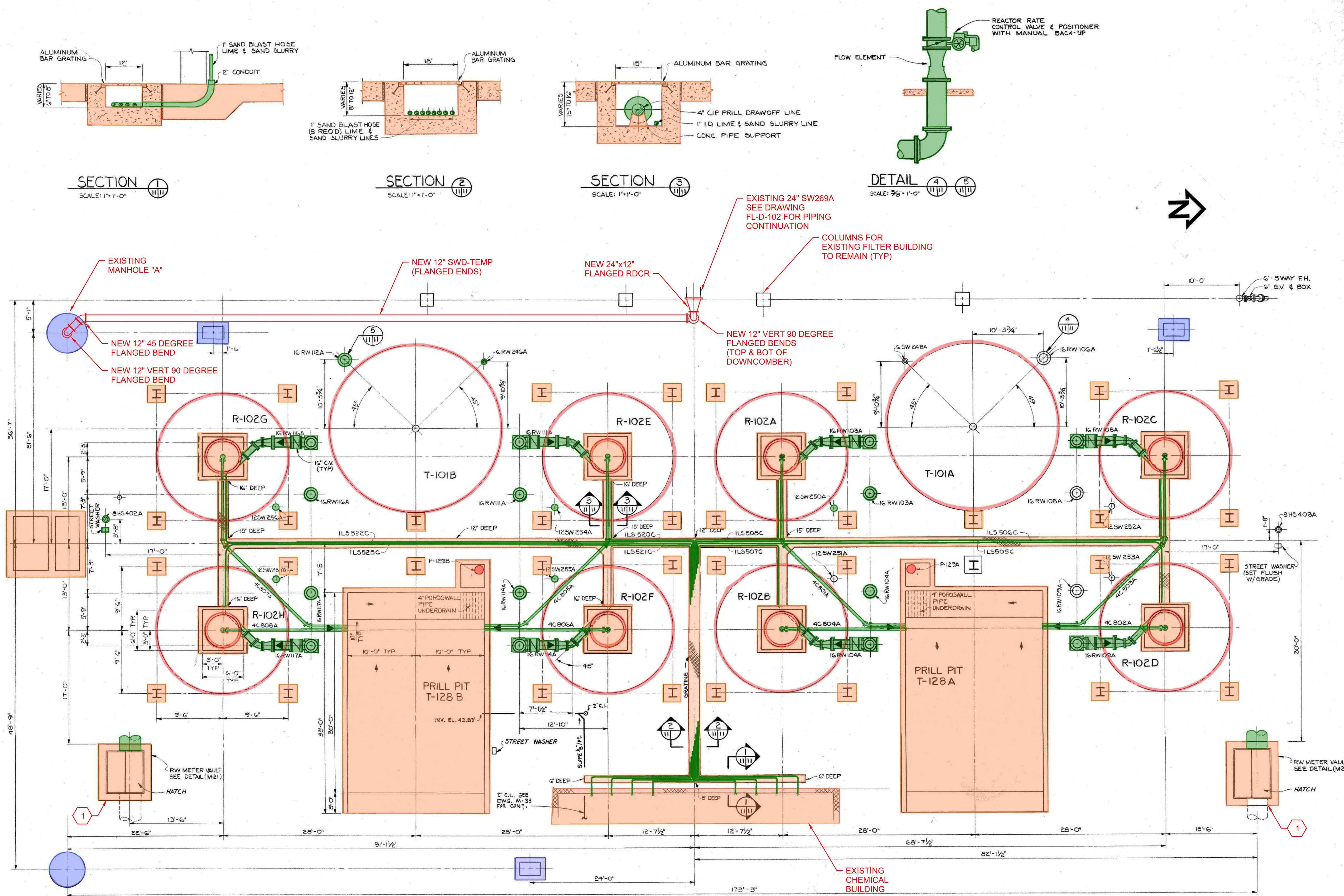


GENERAL NOTES

- BACKGROUND DRAWING IMAGE TAKEN FROM WATSON/ROBERT & COMPANY CONTRACT AS-BUILTS DATED 2-17-76. THIS DRAWING BACKGROUND IS FROM DRAWING M-11.
- DRAWING SCALE LISTED IS NOT GUARANTEED TO BE ACCURATE DUE TO REPRODUCTION PROCESS USED.
- SEE MECHANICAL LEGEND DWG FL-D-100 FOR DEMOLITION COLOR CODING.
- SEE SHEET C210 FOR CONCRETE FLOOR SLAB AREA/DEMOLITION LIMITS.
- EXERCISE CARE NOT TO DAMAGE ANY EQUIPMENT, UNDERGROUND ELEC/PIPING OR BUILDING COMPONENTS WHICH ARE NOT SCHEDULED FOR DEMOLITION.

SHEET KEYNOTES

- 36" PIPE GROUT FILLED FROM THIS POINT EASTWARD. PIPING TO REMAIN OPEN AFTER METER VAULT IS REMOVED. FULLY SEAL PIPE END OPENING WITH GROUT.

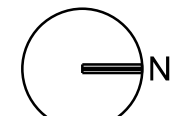


SECTION 2
SCALE: 1"=1'-0"

SECTION 3
SCALE: 1"=1'-0"

DETAIL 4
SCALE: 3/8"=1'-0"

**TREATMENT EQUIPMENT AREA
DEMOLITION PLAN ELEVATION 43 TO 49**
1/8"=1'-0" (APPROXIMATE)



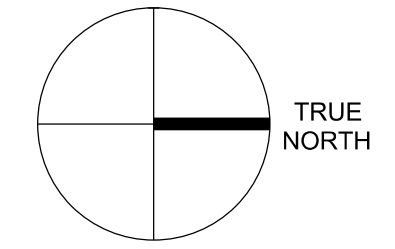
NO.	DATE	DR	REVISION	CHK	BY



Project Title:
FILTER BUILDING ROOF RETROFIT & SITE IMPROVEMENTS

Drawing Title:
**SITE 2
REACTOR AREA DEMOLITION
PLAN AND SECTIONS**

Date: 07/08/2022
Proj. No.: D3237903
Drawing No.: FL-D-104

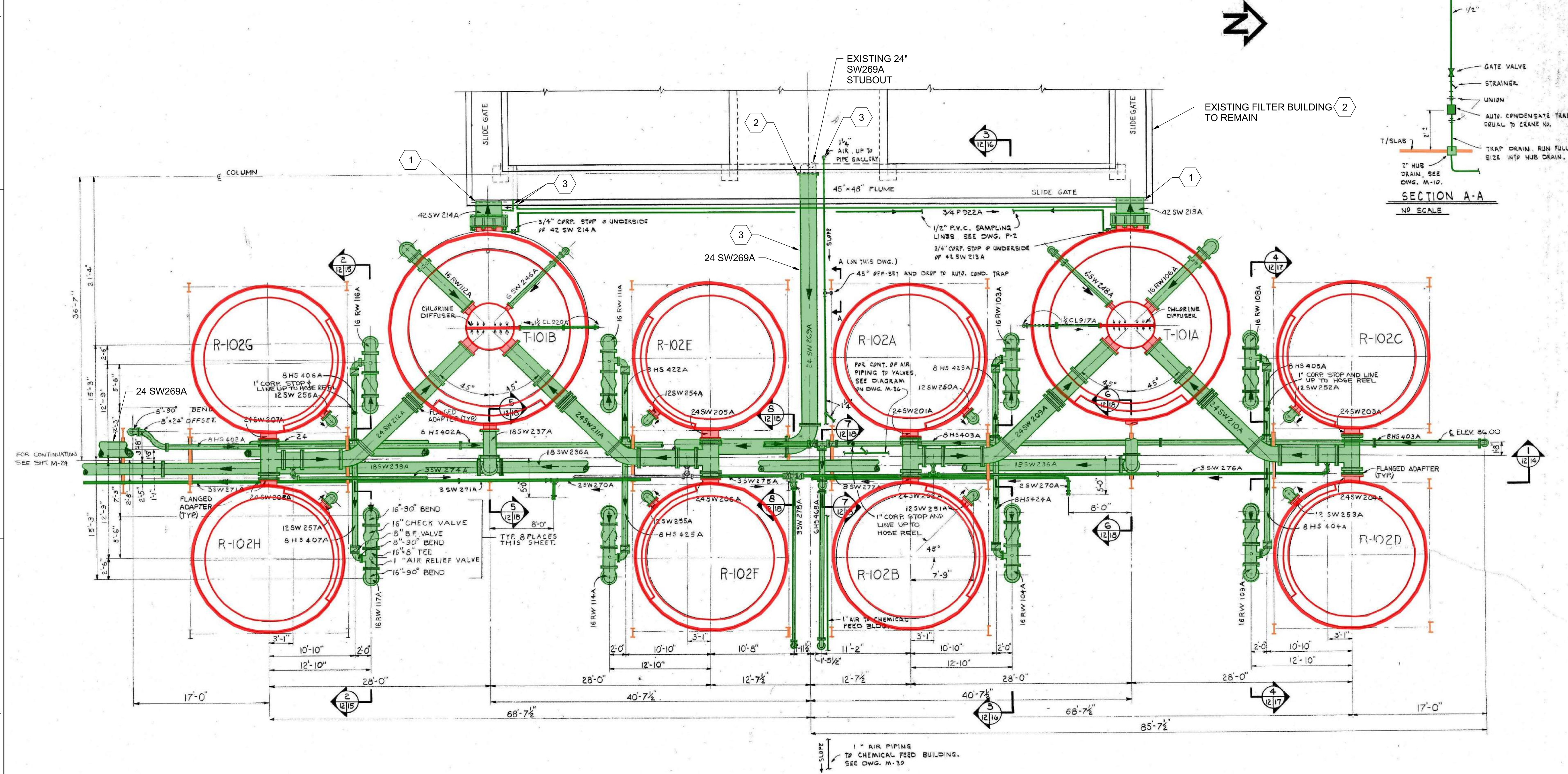
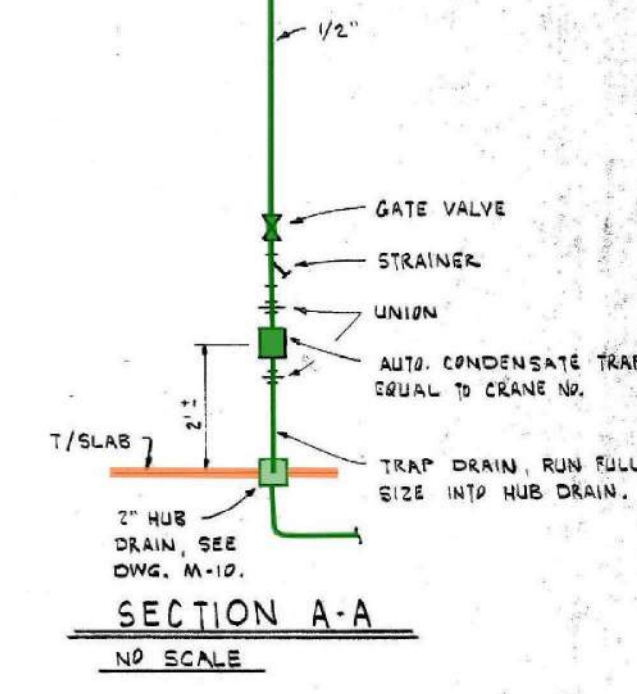


GENERAL NOTES

- BACKGROUND DRAWING IMAGE TAKEN FROM WATSON/ROBERT & COMPANY CONTRACT AS-BUILTS DATED 2-17-76. THIS DRAWING BACKGROUND IS FROM DRAWING M-12.
- DRAWING SCALE LISTED IS NOT GUARANTEED TO BE ACCURATE DUE TO REPRODUCTION PROCESS USED.
- SEE MECHANICAL LEGEND DWG FL-D-100 FOR DEMOLITION COLOR CODING.
- SEE SHEET C210 FOR CONCRETE FLOOR SLAB AREA/DEMOLITION LIMITS.
- EXERCISE CARE NOT TO DAMAGE ANY EQUIPMENT, UNDERGROUND ELEC/PIPING OR BUILDING COMPONENTS WHICH ARE NOT SCHEDULED FOR DEMOLITION.

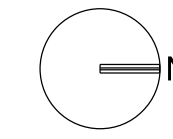
SHEET KEYNOTES

- REMOVE WALL PIPE. PATCH AND RESTORE WALL PER DETAIL 6/FL-S-501.
- SEE DRAWING FL-D-104 FOR 12" TEMPORARY PIPING MODIFICATIONS BETWEEN 24" STUBOUT AND EXISTING MANHOLE "A" TO ENSURE POSITIVE DRAINAGE FOR FILTER BAYS THROUGHOUT CONSTRUCTION. AT SUBSTANTIAL COMPLETION OF THE ROOF SYSTEM, REMOVE TEMPORARY PIPING, AND WALL SLEEVE, AND PATCH WALL PER DETAIL 7/FL-S-501. SUBCONTRACTOR TO COORDINATE SCHEDULE OF DEMOLITION AND TEMPORARY PIPING INSTALLATION WITH ENGINEER PRIOR TO INITIATING WORK IN THIS AREA.
- CUT AND CAP EXISTING PIPING WATERTIGHT 3-INCHES BEYOND EXTERIOR WALL.



CONE REACTOR PLAN
ELEVATION 90 THRU 63
SCALE: 3/16" = 1'-0"

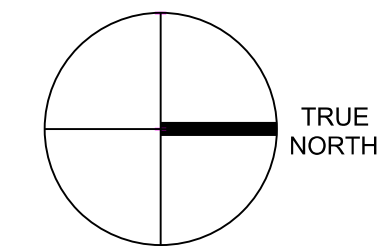
TREATMENT EQUIPMENT AREA
DEMOLITION PLAN ELEVATION 90 THROUGH 63
1/8"=1'-0" (APPROXIMATE)



NO.	DATE	DR	REVISION	CHK	BY



Project Title: FILTER BUILDING ROOF RETROFIT & SITE IMPROVEMENTS
Drawing Title: SITE 2 REACTOR AREA DEMOLITION PLAN
Date: 07/08/2022
Proj. No.: D3237903
Drawing No.: FL-D-105

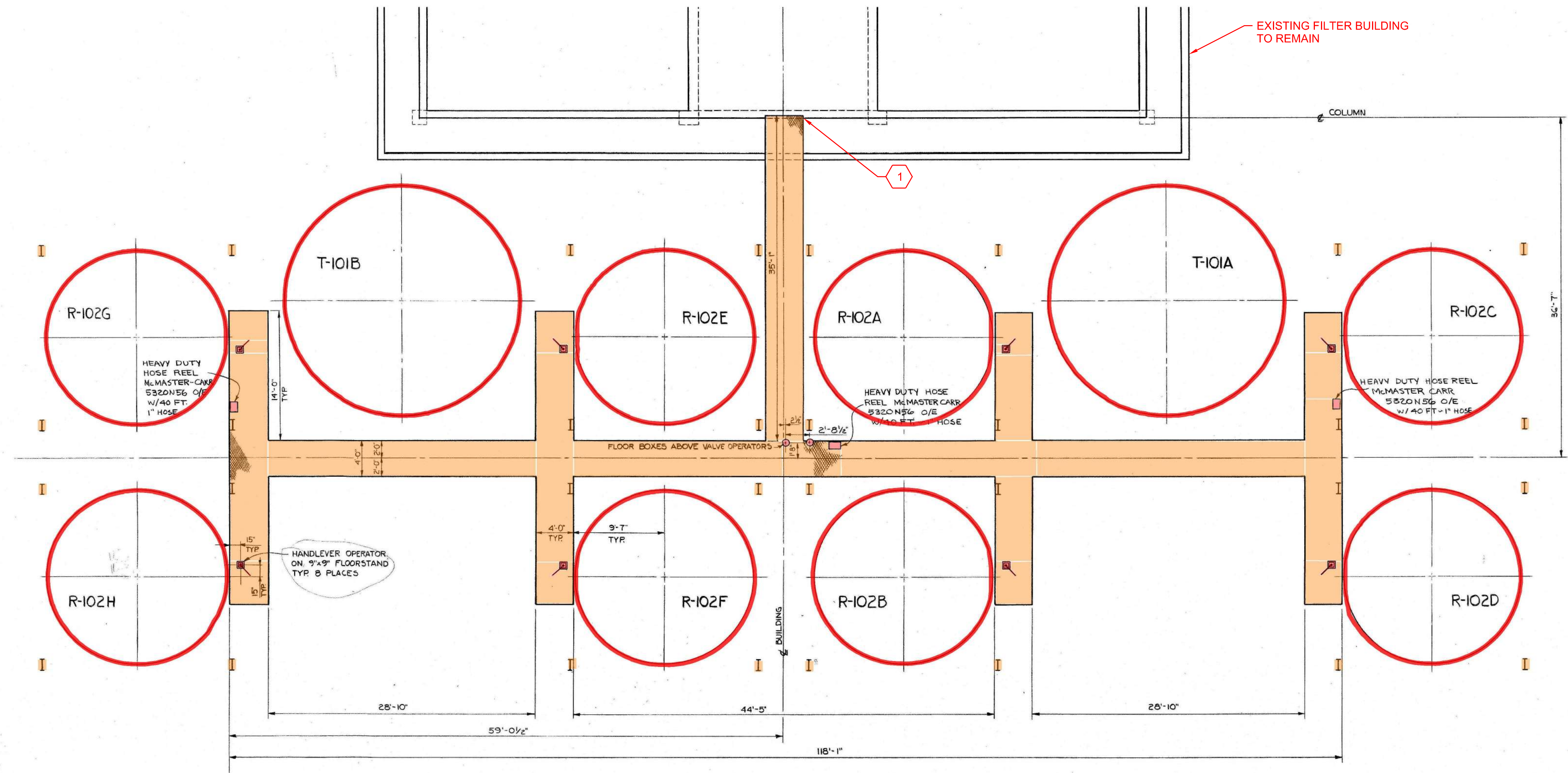


GENERAL NOTES

1. BACKGROUND DRAWING IMAGE TAKEN FROM WATSON/ROBERT & COMPANY CONTRACT AS-BUILTS DATED 2-17-76. THIS DRAWING BACKGROUND IS FROM DRAWING M-13.
2. DRAWING SCALE LISTED IS NOT GUARANTEED TO BE ACCURATE DUE TO REPRODUCTION PROCESS USED.
3. SEE MECHANICAL LEGEND DWG FL-D-100 FOR DEMOLITION COLOR CODING.
4. EXERCISE CARE NOT TO DAMAGE ANY EQUIPMENT, UNDERGROUND ELEC/PIPING OR BUILDING COMPONENTS WHICH ARE NOT SCHEDULED FOR DEMOLITION.

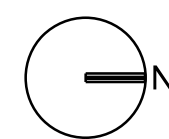
SHEET KEYNOTES

- 1 REMOVE EXISTING PLATFORM FRAMING MEMBER CONNECTION TO BUILDING STRUCTURE AND PATCH EXISTING STRUCTURE TO REMAIN W/ NON-SHRINK GROUT AS REQUIRED.



CONE REACTOR PLAN
ELEVATION 91
SCALE: 3/16" = 1'-0"

TREATMENT EQUIPMENT AREA
DEMOLITION PLAN ELEVATION 91
1/8"=1'-0" (APPROXIMATE)



NO.	DATE	DR	REVISION	CHK	APVD
				A. BARTON	H. POSTROZNY
				C. MARCH	H. POSTROZNY



Project Title:
FILTER BUILDING ROOF RETROFIT & SITE IMPROVEMENTS

Drawing Title:
SITE 2 REACTOR AREA DEMOLITION PLAN

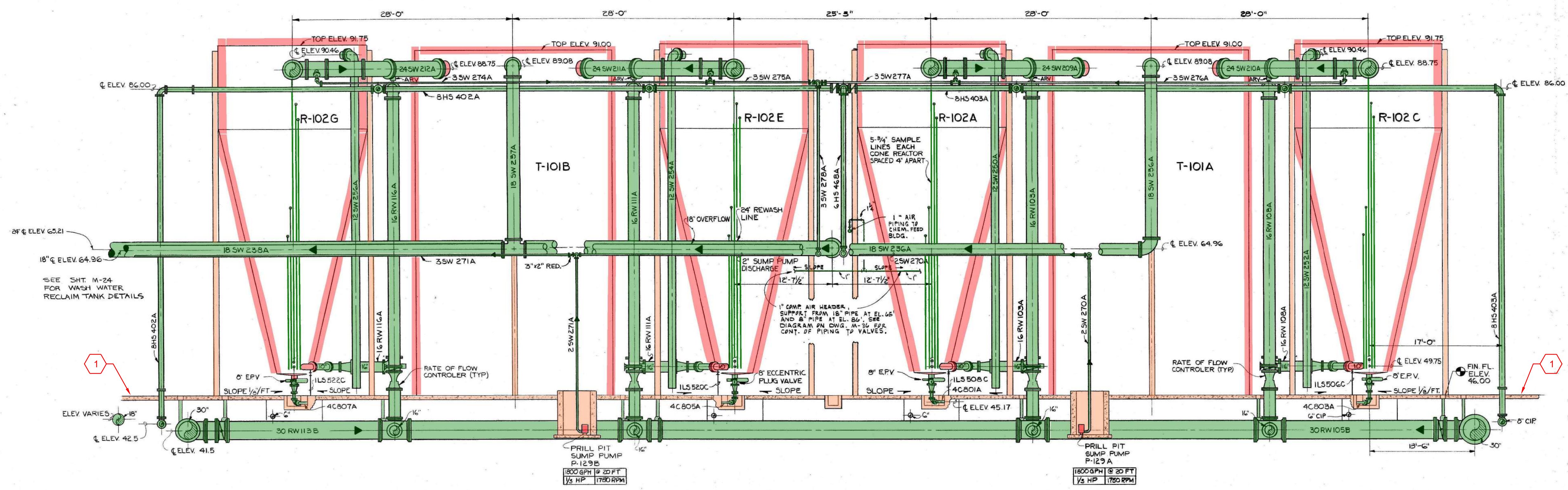
Date: 07/08/2022
Proj. No.: D3237903
Drawing No.: FL-D-106

GENERAL NOTES

1. BACKGROUND DRAWING IMAGE TAKEN FROM WATSON/ROBERT & COMPANY CONTRACT AS-BUILTS DATED 2-17-76. THIS DRAWING BACKGROUND IS FROM DRAWING M-14.
2. DRAWING SCALE LISTED IS NOT GUARANTEED TO BE ACCURATE DUE TO REPRODUCTION PROCESS USED.
3. SEE MECHANICAL LEGEND DWG FL-D-100 FOR DEMOLITION COLOR CODING.
4. SEE SHEET C210 FOR CONCRETE FLOOR SLAB AREA/DEMOLITION LIMITS.
5. EXERCISE CARE NOT TO DAMAGE ANY EQUIPMENT, UNDERGROUND ELEC/PIPING OR BUILDING COMPONENTS WHICH ARE NOT SCHEDULED FOR DEMOLITION.

SHEET KEYNOTES

1. SEE DRAWING C210 FOR LIMITS OF CONCRETE FLOOR SLAB DEMOLITION LIMITS.



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

1 TREATMENT EQUIPMENT AREA DEMOLITION SECTION
1/8"=1'-0" (APPROXIMATE)
FL-D-105

NO.	DATE	DR	CHK	REVISION	BY	APVD	SEALNAME



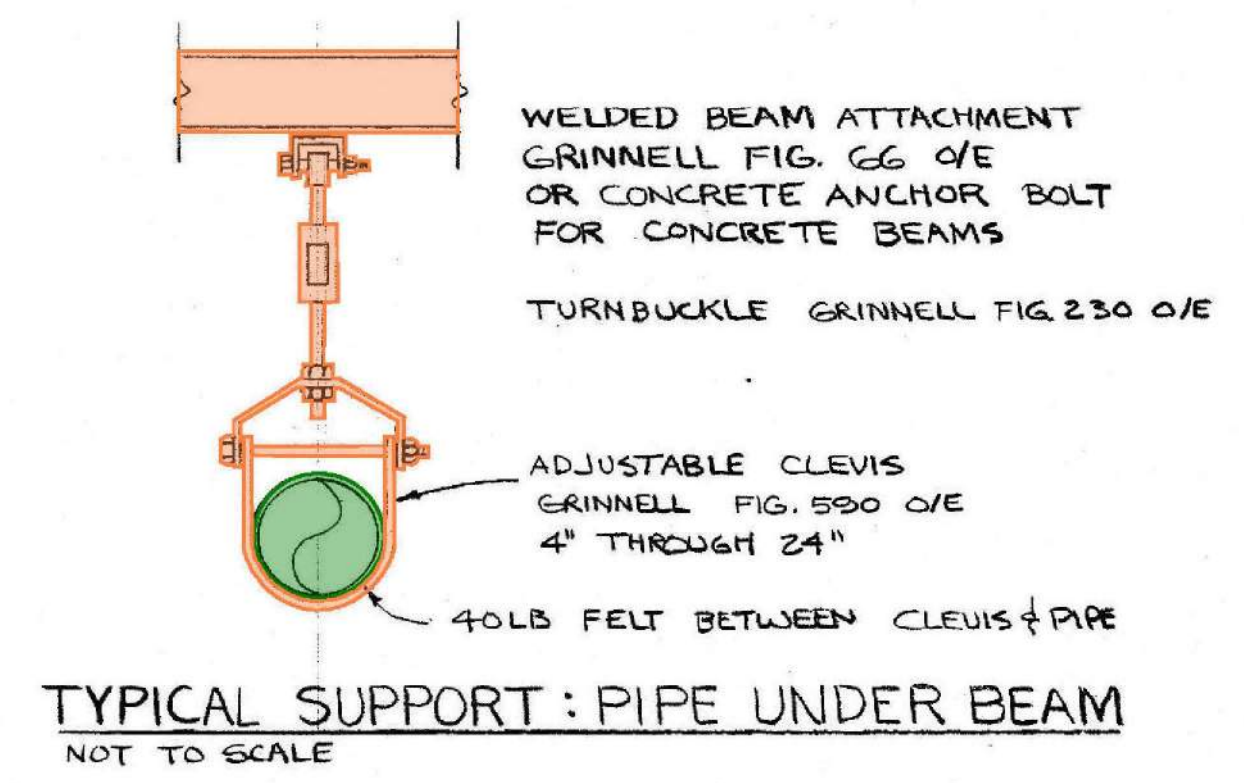
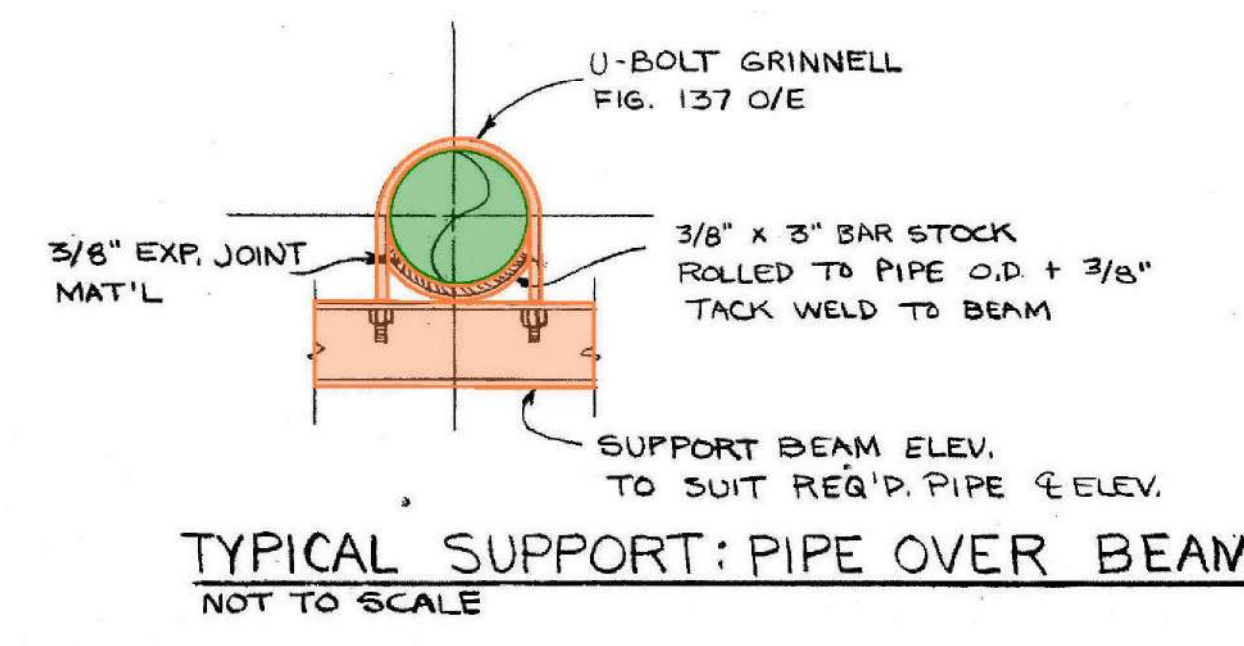
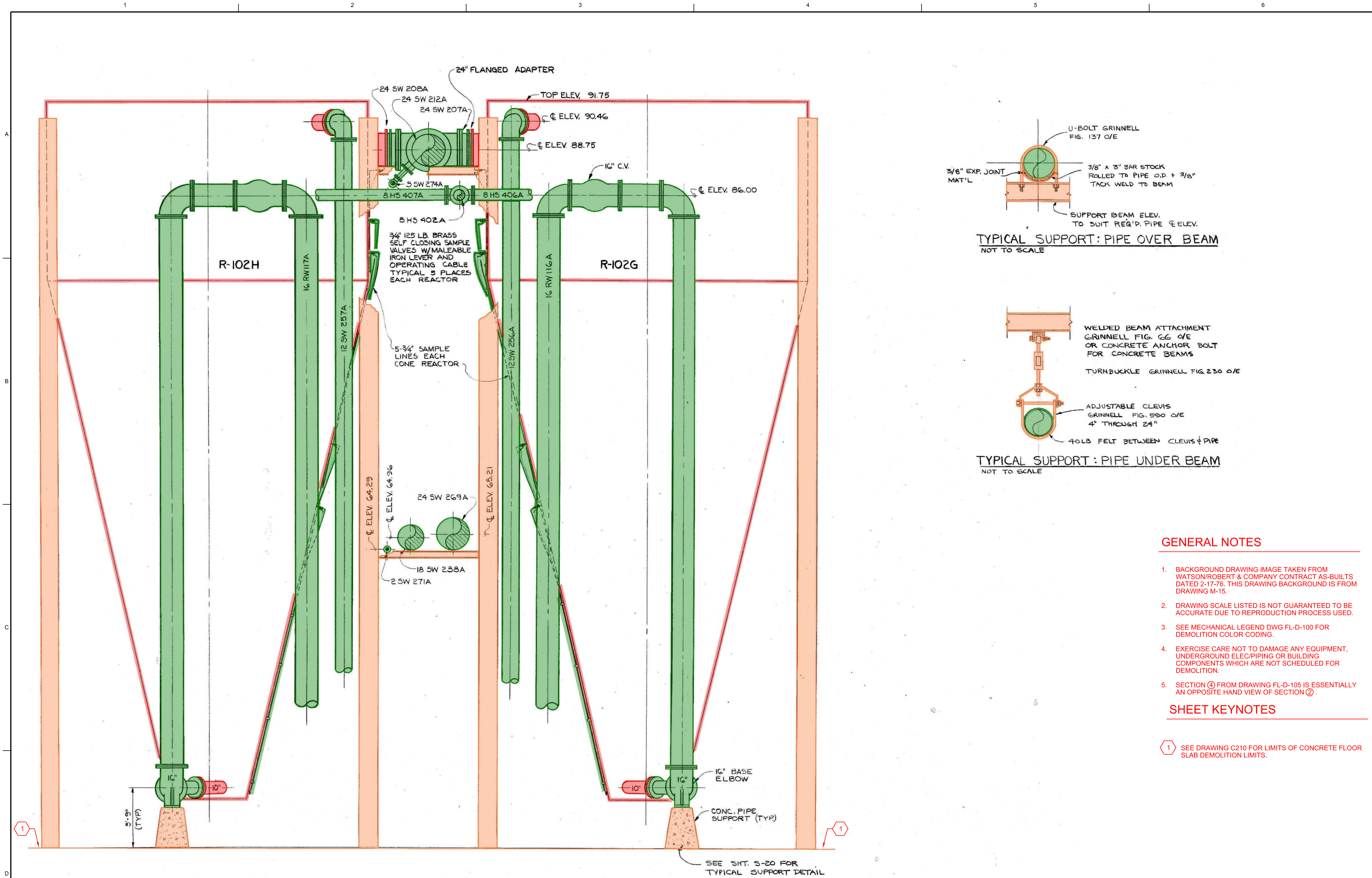
Project Title:
FILTER BUILDING ROOF RETROFIT & SITE IMPROVEMENTS

Drawing Title:
SITE 2 REACTOR AREA DEMOLITION SECTION

Date: 07/08/2022

Proj. No.: D3237903

Drawing No.: FL-D-201



GENERAL NOTES

1. BACKGROUND DRAWING IMAGE TAKEN FROM WATSON/ROBERT & COMPANY CONTRACT AS-BUILTS DATED 2-17-76. THIS DRAWING BACKGROUND IS FROM DRAWING M-15.
2. DRAWING SCALE LISTED IS NOT GUARANTEED TO BE ACCURATE DUE TO REPRODUCTION PROCESS USED.
3. SEE MECHANICAL LEGEND DWG FL-D-100 FOR DEMOLITION COLOR CODING.
4. EXERCISE CARE NOT TO DAMAGE ANY EQUIPMENT, UNDERGROUND ELEC/PIPING OR BUILDING COMPONENTS WHICH ARE NOT SCHEDULED FOR DEMOLITION.
5. SECTION ④ FROM DRAWING FL-D-105 IS ESSENTIALLY AN OPPOSITE HAND VIEW OF SECTION ②.

SHEET KEYNOTES

- ① SEE DRAWING C210 FOR LIMITS OF CONCRETE FLOOR SLAB DEMOLITION LIMITS.

NO.	DATE	REVISION	CHK	DR	BY



Project Title: **FILTER BUILDING ROOF RETROFIT & SITE IMPROVEMENTS**

Drawing Title: **SITE 2 REACTOR AREA DEMOLITION SECTION**

Date: 07/08/2022

Proj. No.: D3237903

Drawing No.: **FL-D-202**

SECTION ②
SCALE: 3/8"=1'-0"
(APPROXIMATE)

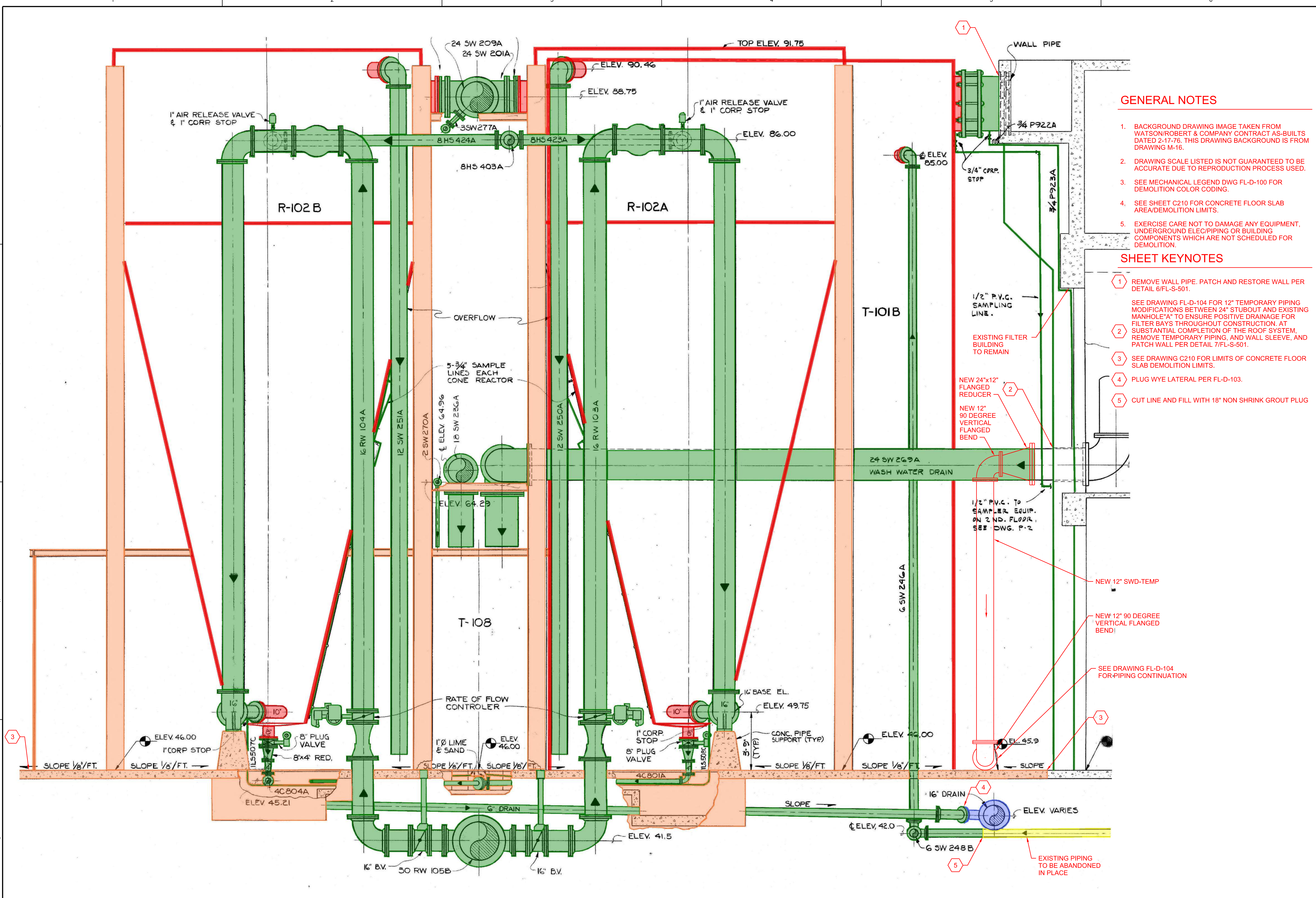
② TREATMENT EQUIPMENT AREA DEMOLITION SECTION
3/8"=1'-0" (APPROXIMATE)
FL-D-105

GENERAL NOTES

1. BACKGROUND DRAWING IMAGE TAKEN FROM WATSON/ROBERT & COMPANY CONTRACT AS-BUILTS DATED 2-17-76. THIS DRAWING BACKGROUND IS FROM DRAWING M-16.
2. DRAWING SCALE LISTED IS NOT GUARANTEED TO BE ACCURATE DUE TO REPRODUCTION PROCESS USED.
3. SEE MECHANICAL LEGEND DWG FL-D-100 FOR DEMOLITION COLOR CODING.
4. SEE SHEET C210 FOR CONCRETE FLOOR SLAB AREA/DEMOLITION LIMITS.
5. EXERCISE CARE NOT TO DAMAGE ANY EQUIPMENT, UNDERGROUND ELEC/PIPING OR BUILDING COMPONENTS WHICH ARE NOT SCHEDULED FOR DEMOLITION.

SHEET KEYNOTES

- 1 REMOVE WALL PIPE. PATCH AND RESTORE WALL PER DETAIL 6/FL-S-501.
SEE DRAWING FL-D-104 FOR 12" TEMPORARY PIPING MODIFICATIONS BETWEEN 24" STUBOUT AND EXISTING MANHOLE "A" TO ENSURE POSITIVE DRAINAGE FOR FILTER BAYS THROUGHOUT CONSTRUCTION. AT SUBSTANTIAL COMPLETION OF THE ROOF SYSTEM, REMOVE TEMPORARY PIPING, AND WALL SLEEVE, AND PATCH WALL PER DETAIL 7/FL-S-501.
- 2 SEE DRAWING C210 FOR LIMITS OF CONCRETE FLOOR SLAB DEMOLITION LIMITS.
- 3 PLUG WYE LATERAL PER FL-D-103.
- 4 CUT LINE AND FILL WITH 18" NON SHRINK GROUT PLUG

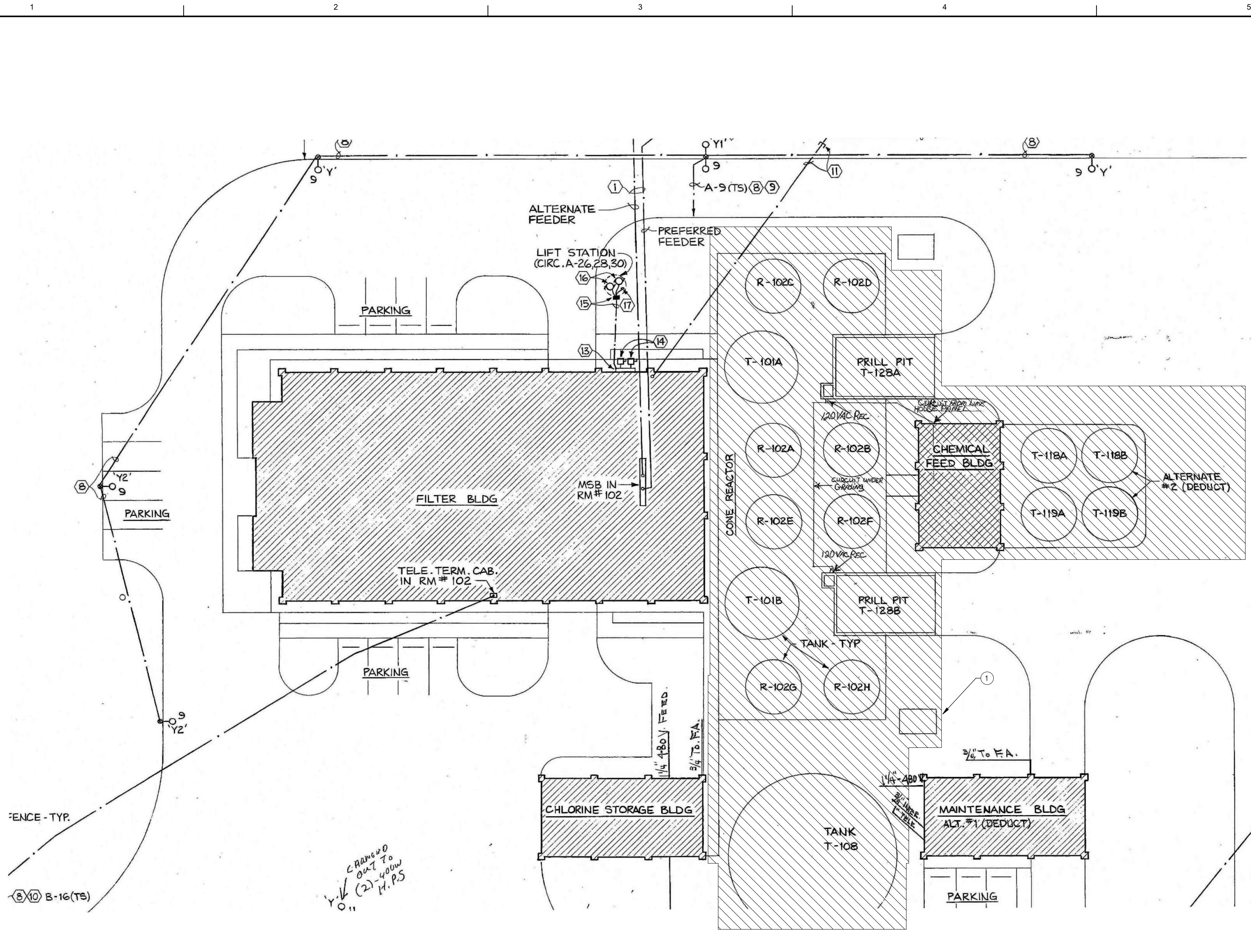


3 TREATMENT EQUIPMENT AREA DEMOLITION PLAN
3/8"=1'-0" (APPROXIMATE)
FL-D-105

NO.	DATE	DR	REVISION	CHK	BY	APVD



Project Title: **FILTER BUILDING ROOF RETROFIT & SITE IMPROVEMENTS**
Drawing Title: **SITE 2 REACTOR AREA DEMOLITION SECTION**
Date: 07/08/2022
Proj. No.: D3237903
Drawing No.: FL-D-203



1 SITE PLAN - SOUTH - ELECTRICAL DEMOLITION
1" = 20"

*Change out to
2) 400w
17.95*

GENERAL NOTES

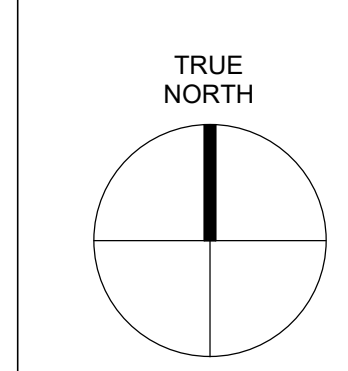
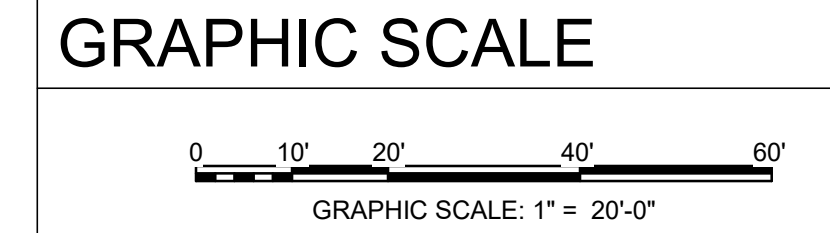
A. REFER TO SHEETS S2-E-001 THROUGH S2-E-002 FOR LEGEND, ABBREVIATIONS, AND NOTES.

B. REFER TO S2-E-500 SERIES DRAWING FOR SUPPLEMENTAL DETAILS.

C. BACKGROUND DRAWING IMAGE TAKEN FROM WATSON & COMPANY CONTRACT WP-4 CONSTRUCTION DRAWINGS DATED 2-17-76. THIS DRAWING BACKGROUND CAME FROM SHEET E-2.

KEYNOTES # SHOWN THUS

- REMOVE ALL POWER, LIGHTING, AND FIRE ALARM COMPLETE.
- REMOVE CONDUCTORS COMPLETE PACK TO PANEL. REMOVE ALL PORTIONS OF CONDUIT ABOVE FINISHED GRADE. ABANDON PORTIONS OF CONDUIT/DUCTBANK BELOW GRADE IN PLACE.
- REMOVE FIRE ALARM CONDUCTORS COMPLETE PACK TO PANEL. REMOVE ALL PORTIONS OF CONDUIT ABOVE FINISHED GRADE. ABANDON PORTIONS OF CONDUIT/DUCTBANK BELOW GRADE IN PLACE. REPROGRAM FIRE ALARM PANEL AS REQUIRED FOR ANY CIRCUITS DEMOLISHED.



Jacobs
5401 W. KENNEDY BLVD.
STE 300 & 900
Tampa, FL 33609
P:(813) 282-3500
www.jacobs.com

NO.	DATE	DSGN	DR	CHK	APVD	DA



Project Title:
FILTER BUILDING ROOF RETROFIT & SITE IMPROVEMENTS

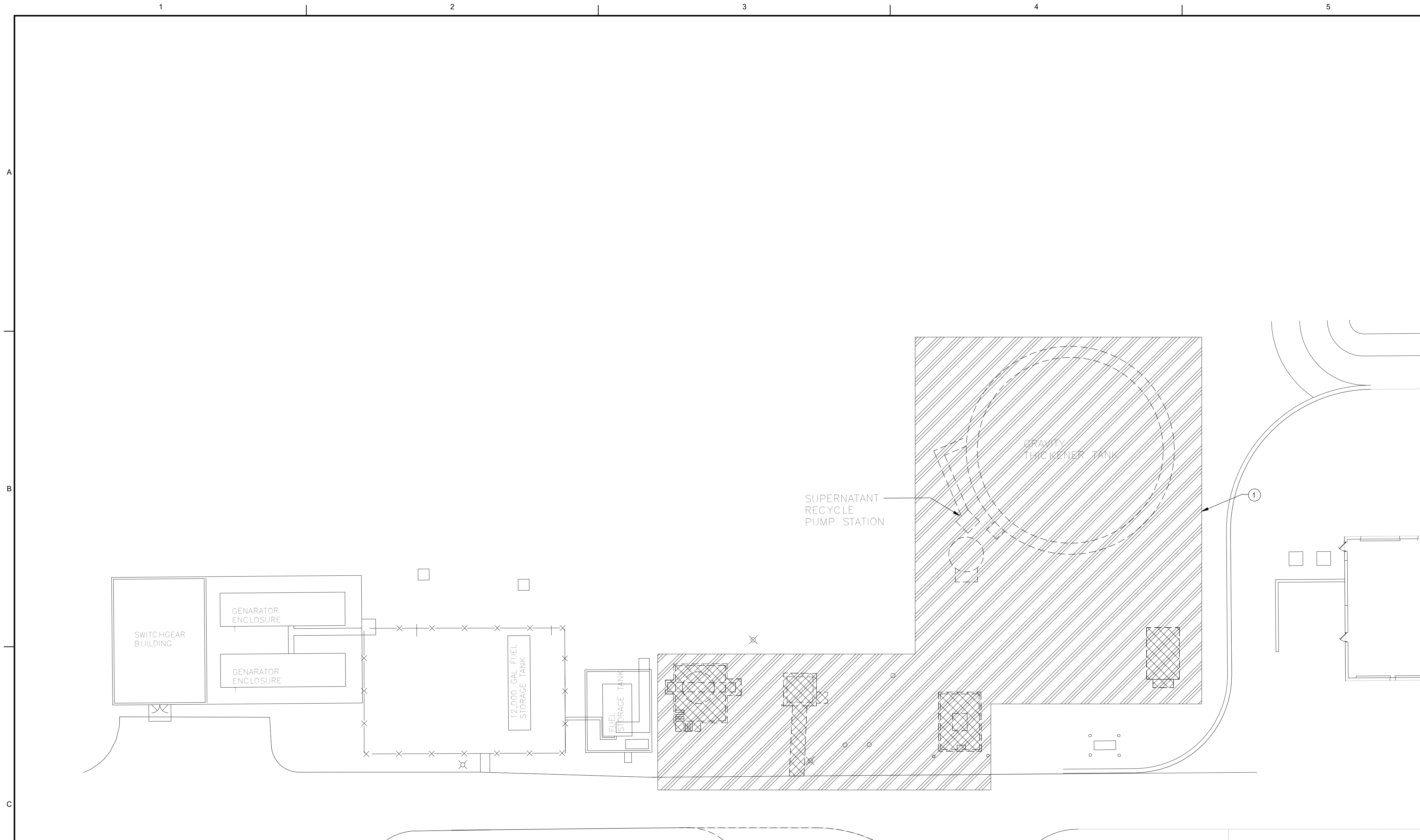
Drawing Title:
SITE PLAN - SOUTH - ELECTRICAL DEMOLITION

Date: 07/08/2022

Proj. No.: D3237903

Drawing No.: **S2-ESD100**

© Jacobs Engineering Group Inc. 2022 ALL RIGHTS RESERVED
100% CD SET



1 SITE PLAN - NORTH - ELECTRICAL DEMOLITION
 1" = 20'-0"

GENERAL NOTES

A. REFER TO SHEETS S2-E-001 THROUGH S2-E-002 FOR LEGEND, ABBREVIATIONS, AND NOTES.

B. REFER TO S2-E-500 SERIES DRAWING FOR SUPPLEMENTAL DETAILS.

Jacobs

5401 W. KENNEDY BLVD.
 STE 300 & 900
 TAMPA, FL 33609
 P: (813) 282-3500
 WWW.JACOBS.COM

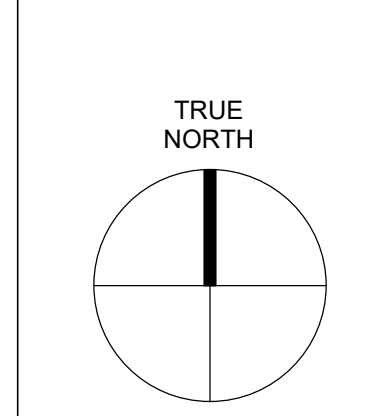
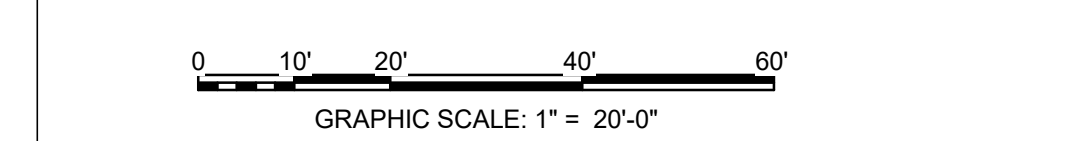
KEYNOTES

- REMOVE ALL ELECTRICAL POWER AND LIGHTING CONDUCTORS COMPLETE BACK TO PANEL. REMOVE ALL PORTIONS OF CONDUIT ABOVE FINISHED GRADE. ABANDON PORTIONS OF CONDUIT/DUCTBANK BELOW GRADE IN PLACE. MARK ALL CIRCUITS REMOVED COMPLETE AS SPARE.

NO.	DATE	DR	DA	REVISION	CHK	LP	APVD	BY	APVD	DA



GRAPHIC SCALE



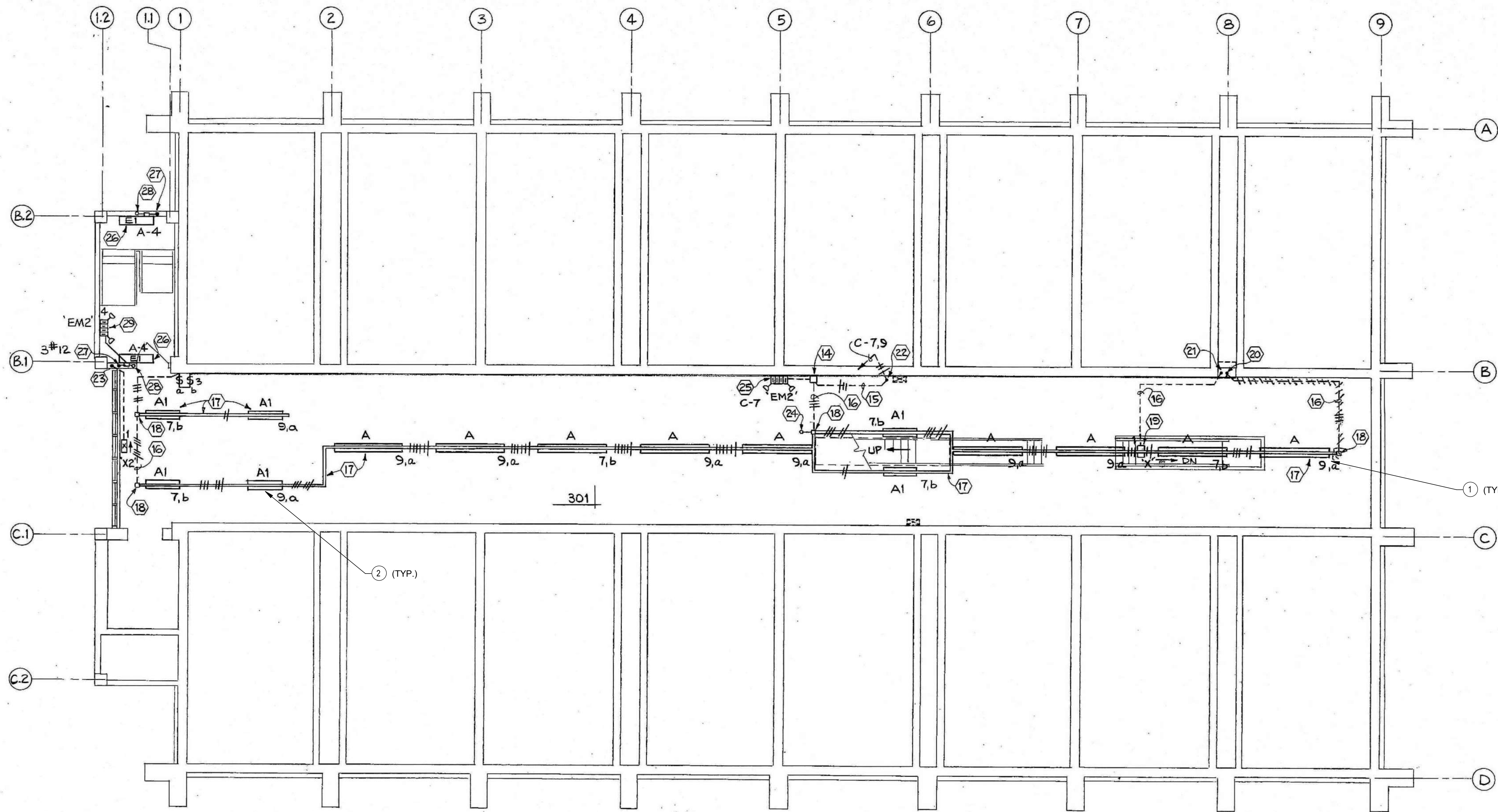
Project Title:
FILTER BUILDING ROOF RETROFIT & SITE IMPROVEMENTS

Drawing Title:
SITE PLAN - NORTH - ELECTRICAL DEMOLITION

Date: 07/08/2022

Proj. No.: D3237903

Drawing No.: **S2-ESD101**



PIPE GALLERY FLOOR PLAN - LIGHTING
SCALE: 1/8" = 1'-0"

GENERAL NOTES

- BACKGROUND DRAWING IMAGE TAKEN FROM WATSON & COMPANY CONTRACT WP-4 CONSTRUCTION DRAWINGS DATED 2-17-76. THIS DRAWING BACKGROUND CAME FROM SHEET E-7.

Jacobs

5401 W. KENNEDY BLVD.
STE 300 & 900
Tampa, FL 33609
P:(813) 282-3500
www.jacobs.com

© Jacobs Engineering Group Inc. 2022 ALL RIGHTS RESERVED

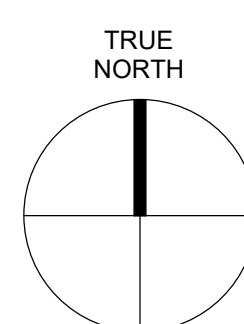
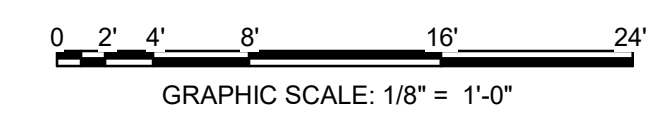
KEYNOTES # SHOWN THUS

- REPLACE EXISTING LIGHT FIXTURE TYPE 'A' WITH COLUMBIA LIGHTING MULTIPURPOSE LINEAR MPS-8-9-35-LW-C-W-E.
- REPLACE EXISTING LIGHT FIXTURE TYPE 'A1' WITH COLUMBIA LIGHTING MULTIPURPOSE LINEAR MPS-4-9-35-LW-C-W-E.

NO.	DATE	DR	CHK	LP	AP/VD	BY	AP/VD	DA



GRAPHIC SCALE

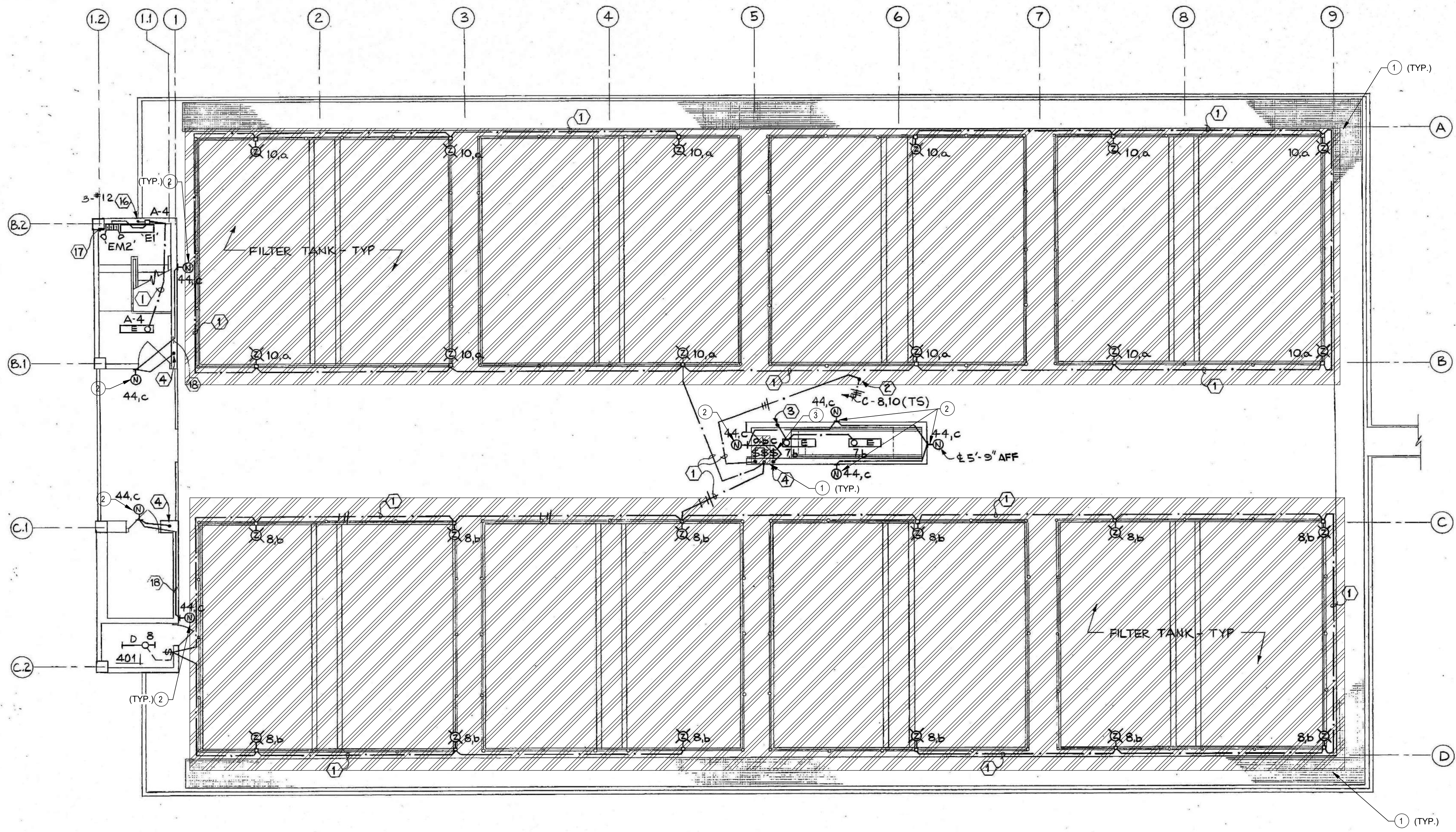


Project Title:
FILTER BUILDING ROOF RETROFIT & SITE IMPROVEMENTS
Drawing Title:
PIPE GALLERY - LIGHTING DEMOLITION

Date: 07/08/2022
Proj. No.: D3237903
Drawing No.:

S2-ELD101

100% CD SET



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

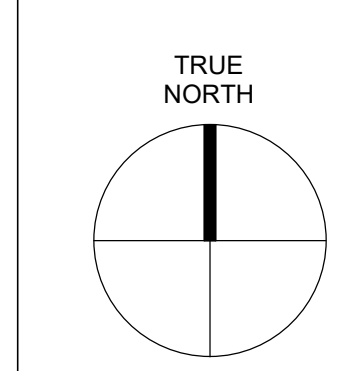
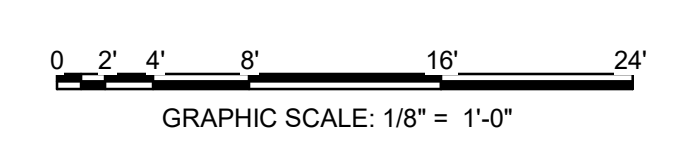
GENERAL NOTES

1. BACKGROUND DRAWING IMAGE TAKEN FROM WATSON & COMPANY CONTRACT WP-4 CONSTRUCTION DRAWINGS DATED 2-17-76. THIS DRAWING BACKGROUND CAME FROM SHEET E-7.

KEYNOTES # SHOWN THUS

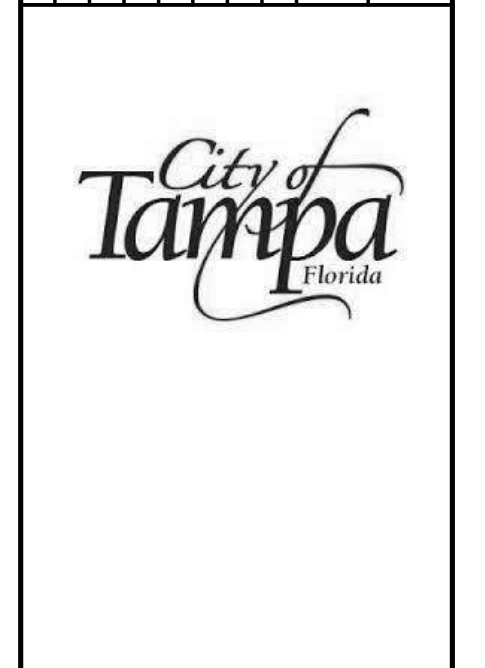
1. REMOVE LIGHTING COMPLETE BACK TO SOURCE. SOURCE IS TO BE CONSIDERED THE FIRST UPSTREAM DEVICE, PANEL, OR JUNCTION BOX.
2. REPLACE EXISTING FIXTURE TYPE "N" WITH KIM LIGHTING FIXTURE TYPE KFL1-16L-40-4K3-MF-JUNV-K-DB-SF-HS-SM18. REUSE EXISTING CIRCUIT AND EXTEND AS REQUIRED.
3. PROVIDE NEW SINGLE POLE TOGGLE SWITCH TO REPLACE MISSING SWITCH AND PROVIDE NEW FACEPLATE FOR NEW SWITCH CONFIGURATION FROM SWITCHES DEMOLISHED.

GRAPHIC SCALE



Jacobs
 5401 W. KENNEDY BLVD.
 STE 300 & 900
 TAMPA, FL 33609
 P: (813) 282-3500
 www.jacobs.com

NO.	DATE	DSGN	DR	CHK	APVD	DA

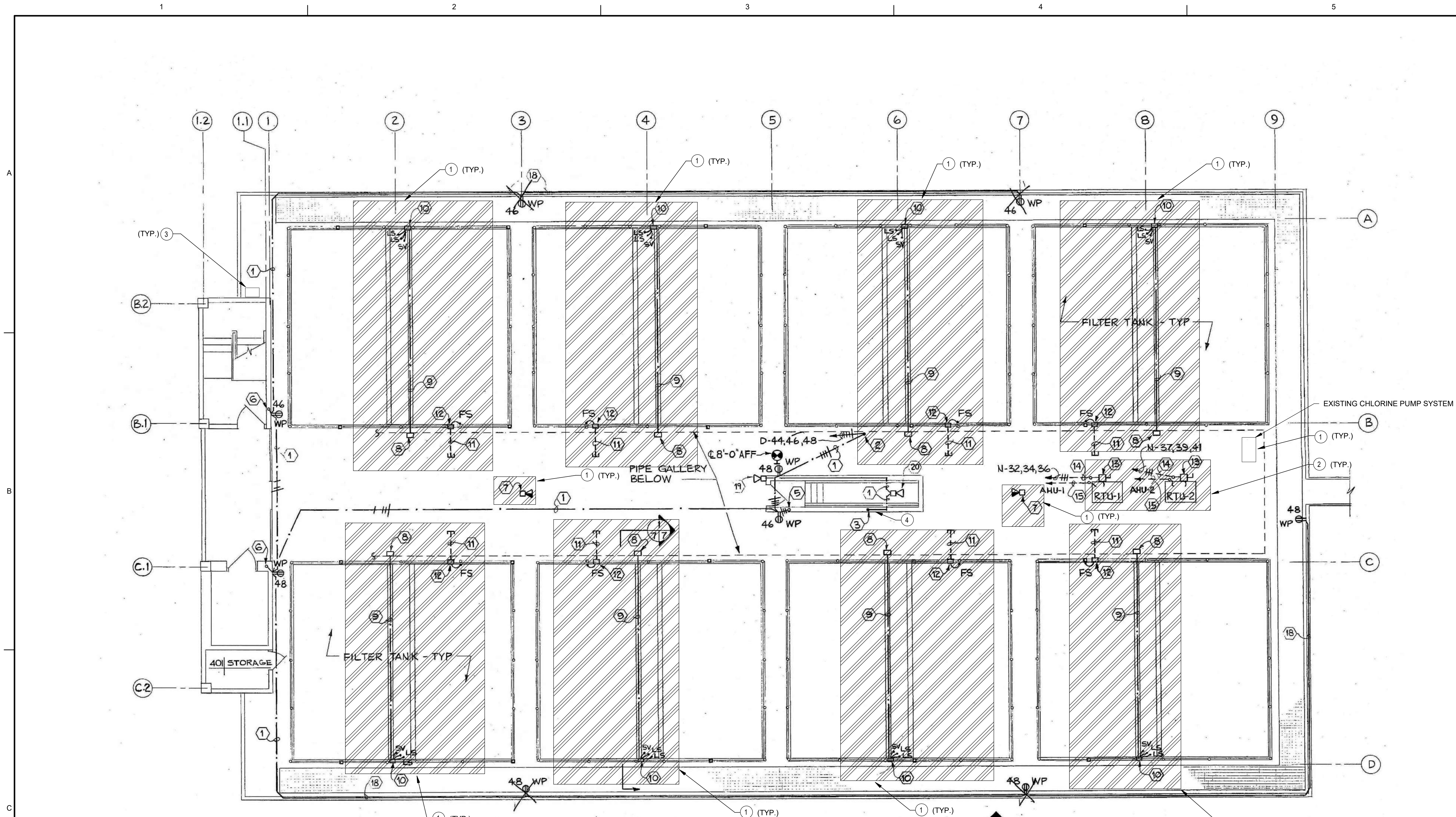


Project Title:
FILTER BUILDING ROOF RETROFIT & SITE IMPROVEMENTS

Drawing Title:
FILTER LEVEL - LIGHTING DEMOLITION

Date: 07/08/2022
 Proj. No.: D3237903
 Drawing No.: S2-ELD102

100% CD SET



FILTER LEVEL PLAN - POWER & MISC.
 SCALE : 1/8" = 1'-0"



GENERAL NOTES

- BACKGROUND DRAWING IMAGE TAKEN FROM WATSON & COMPANY CONTRACT WP-4 CONSTRUCTION DRAWINGS DATED 2-17-76. THIS DRAWING BACKGROUND CAME FROM SHEET E-7.

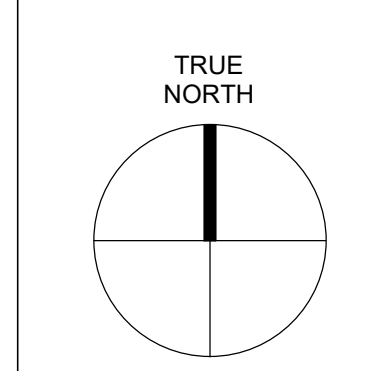
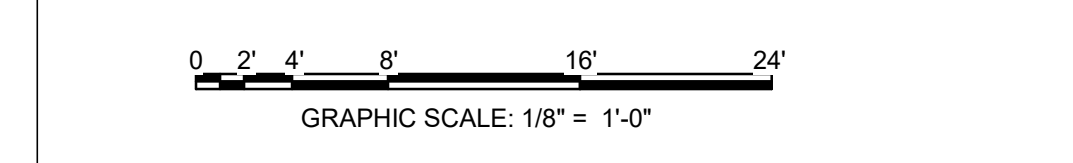
Jacobs
 5401 W. KENNEDY BLVD.
 STE 300 & 900
 TAMPA, FL 33609
 P:(813) 282-3500
 WWW.JACOBS.COM

KEYNOTES # SHOWN THUS

- REMOVE ALL POWER COMPLETE. BACK TO SOURCE. SOURCE IS TO BE CONSIDERED TO THE FIRST UPSTREAM DEVICE OR PANEL.
- RTU UNITS ARE TO BE RELOCATED TO GROUND LEVEL. REMOVE ELECTRICAL COMPLETE BACK TO PANEL.
- EXISTING LIFT STATION REMOTE SATELLITE CONTROL TO BE RELOCATED. COORDINATE RELOCATION OF EQUIPMENT WITH CITY OF TAMPA WASTEWATER GROUP. PROVIDE NEW POWER CONNECTION TO CABINET AT AREA OF RELOCATION UTILIZING CIRCUIT THAT PREVIOUSLY SERVED CABINET.
- EXTEND CONDUIT AND LB CONNECTION INSIDE STAIRWELL TO TRANSITION OUTSIDE ABOVE NEW ROOF ELEVATION. ENSURE CONDUIT AND WALL PENETRATION ARE LOCATED 18" AFF. RECONNECT AND EXTEND ALL WIRING AS REQUIRED.

NO.	DATE	DSGN	DR	CHK	LP	AP/VD	BY	AP/VD	DA

GRAPHIC SCALE



Project Title:
FILTER BUILDING ROOF RETROFIT & SITE IMPROVEMENTS

Drawing Title:
FILTER LEVEL - POWER DEMOLITION

Date: 07/08/2022
 Proj. No.: D3237903
 Drawing No.: S2-EPD102

GENERAL NOTES

- BACKGROUND DRAWING IMAGE TAKEN FROM WATSON & COMPANY CONTRACT WP-4 CONSTRUCTION DRAWINGS DATED 2-17-76. THIS DRAWING BACKGROUND CAME FROM SHEET E-7.

KEYNOTES # SHOWN THUS

- REMOVE LIGHTNING PROTECTION SYSTEM COMPLETE.
- MAINTAIN EXISTING LIGHTNING PROTECTION DOWN CONDUCTORS FOR RECONNECTION TO NEW LIGHTNING PROTECTION SYSTEM.

NO.	DATE	DSGN	DR	CHK	LP	APVD	DA

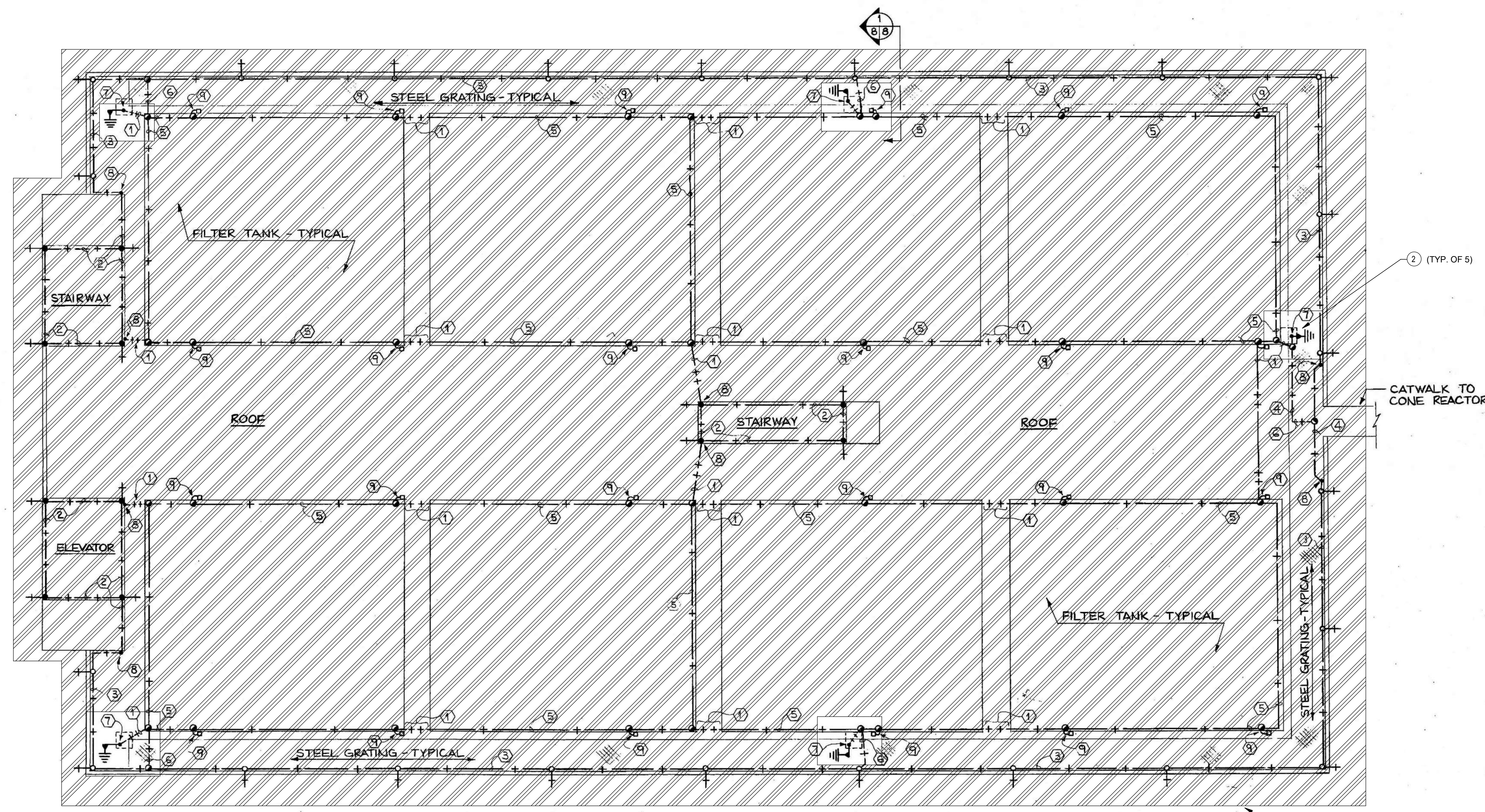


Project Title:
FILTER BUILDING ROOF RETROFIT & SITE IMPROVEMENTS
Drawing Title:
ROOF PLAN - LIGHTNING PROTECTION DEMOLITION

Date: 07/08/2022
Proj. No.: D3237903
Drawing No.:

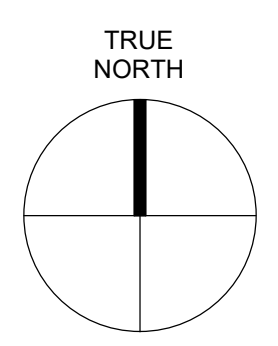
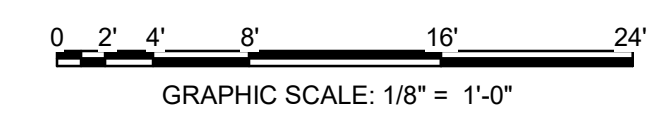
S2-EGD102

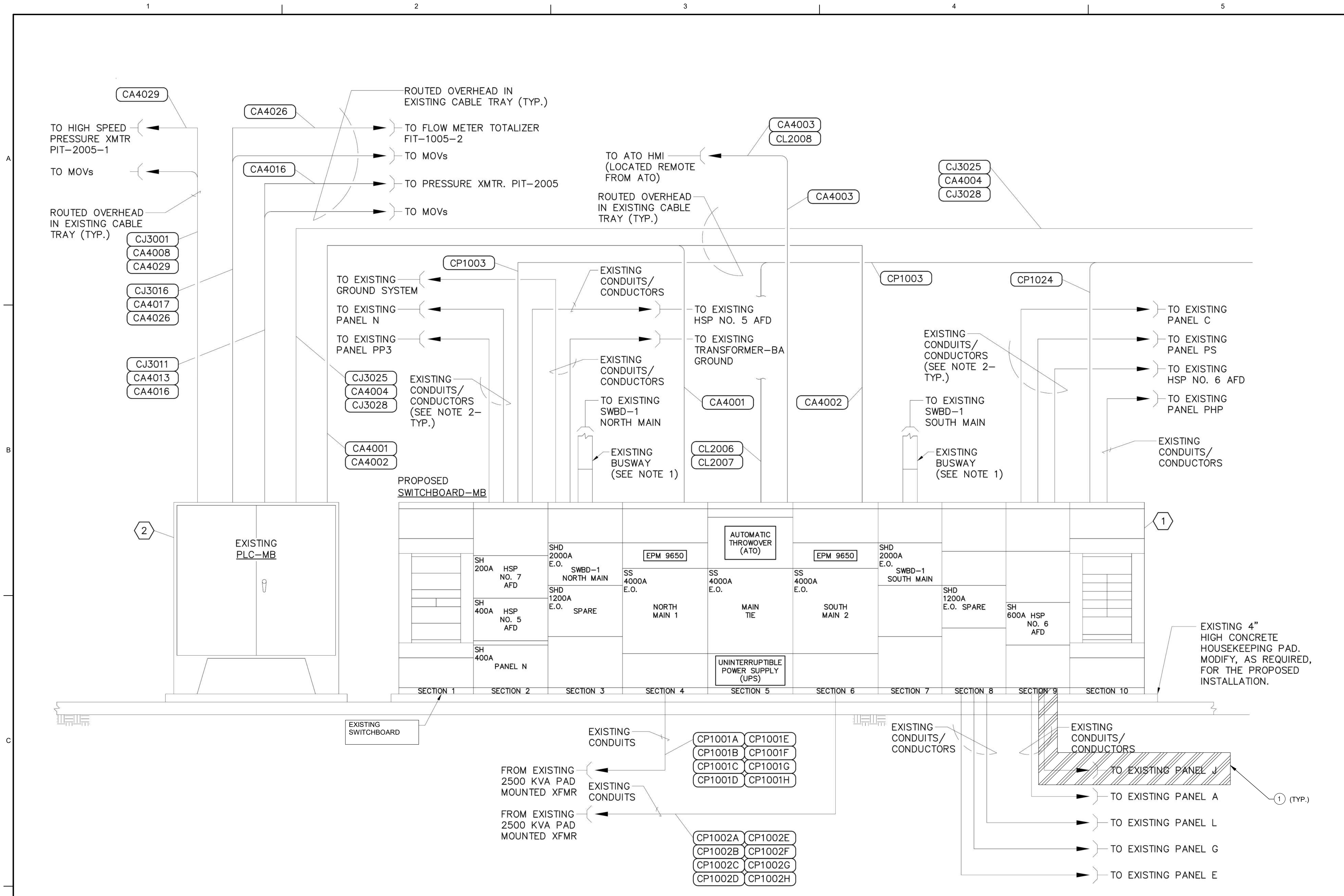
100% CD SET



ROOF PLAN - LIGHTNING PROTECTION SYSTEM
SCALE: 1/8" = 1'-0"

GRAPHIC SCALE





**SWITCHBOARD-MB
ELECTRICAL RISER DIAGRAM**
(SHEET 1 OF 2)

GENERAL NOTES

- BACKGROUND DRAWING IMAGE TAKEN FROM RIESS ENGINEERING RECORD DRAWINGS DATED AUGUST 2020. THIS DRAWING BACKGROUND CAME FROM SHEET E-18.



5401 W. KENNEDY BLVD.
STE 300 & 900
Tampa, FL 33609
P:(813) 282-3500
www.jacobs.com

© Jacobs Engineering Group Inc. 2022 ALL RIGHTS RESERVED

KEYNOTES # SHOWN THUS

- DISCONNECT AND REMOVE CONDUCTORS BACK TO BREAKER FOR PANEL FEEDERS REMOVED PER DEMOLITION. LABEL BREAKER AS SPARE.

NO.	DATE	DR	DA	REVISION	CHK	LP	APVD	BY	APVD	DA

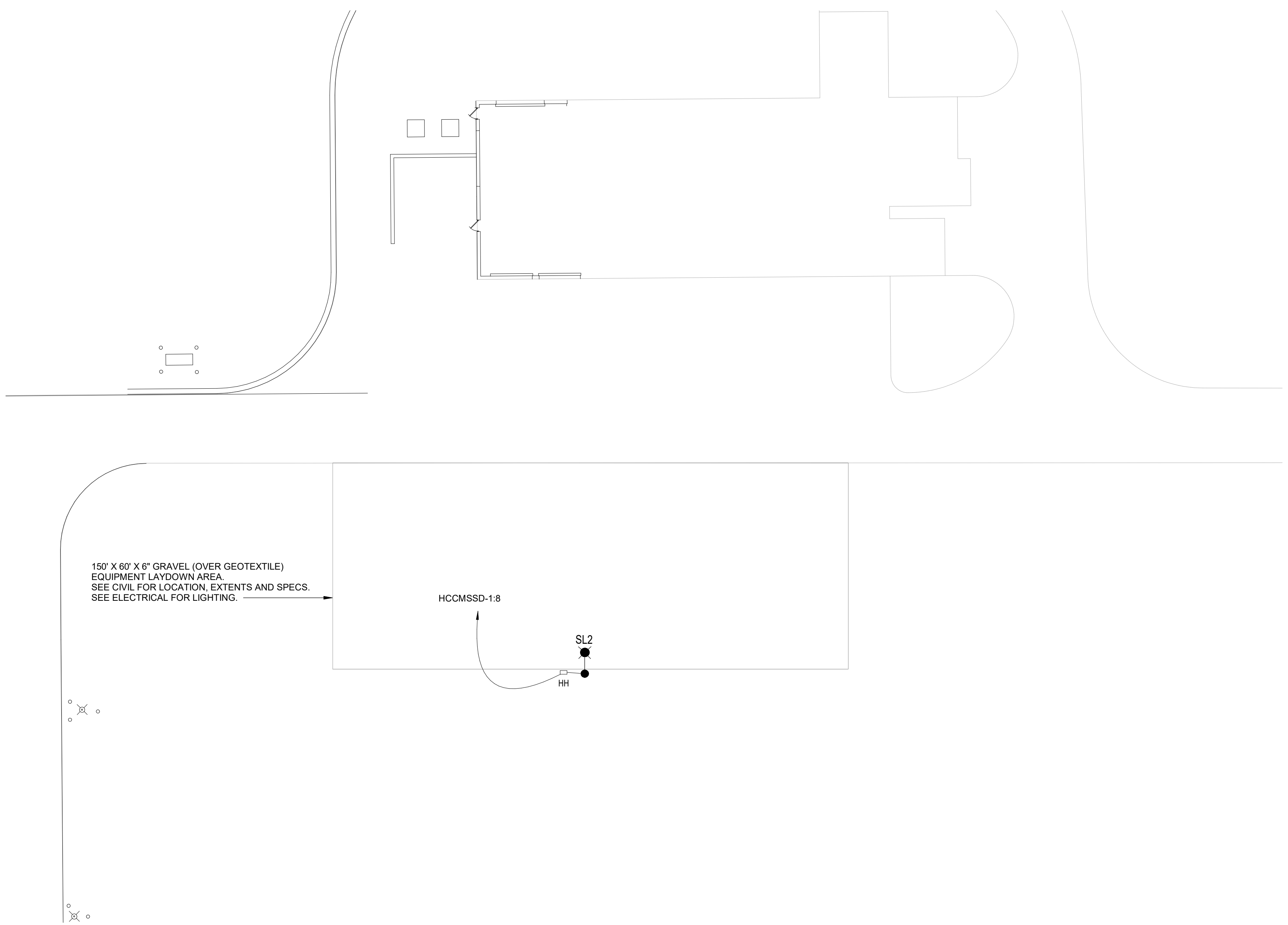


Project Title:
FILTER BUILDING ROOF RETROFIT & SITE IMPROVEMENTS
Drawing Title:
RISER DIAGRAM - ELECTRICAL DEMOLITION

Date: 07/08/2022
Proj. No.: D3237903
Drawing No.:

S2-ED600

100% CD SET



1 PARTIAL ELECTRICAL SITE PLAN
1" = 20'-0"

GENERAL NOTES

- A. REFER TO SHEETS S2-E-001 THROUGH S2-E-002 FOR LEGEND, ABBREVIATIONS, AND NOTES.
- B. REFER TO S2-E-500 SERIES DRAWING FOR SUPPLEMENTAL DETAILS.



5401 W. KENNEDY BLVD.
STE 300 & 900
Tampa, FL 33609
P: (813) 282-3500
www.jacobs.com

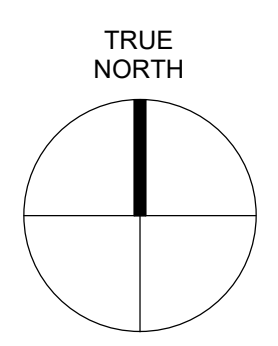
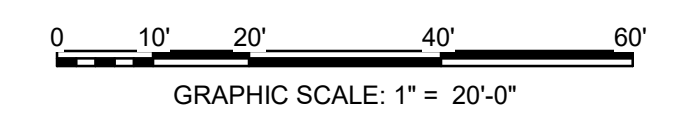
©Jacobs Engineering Group Inc. 2022 ALL RIGHTS RESERVED

KEYNOTES # SHOWN THUS

NO.	DATE	DR	DA	REVISION	CHK	LP	APVD	BY	APVD	DA



GRAPHIC SCALE

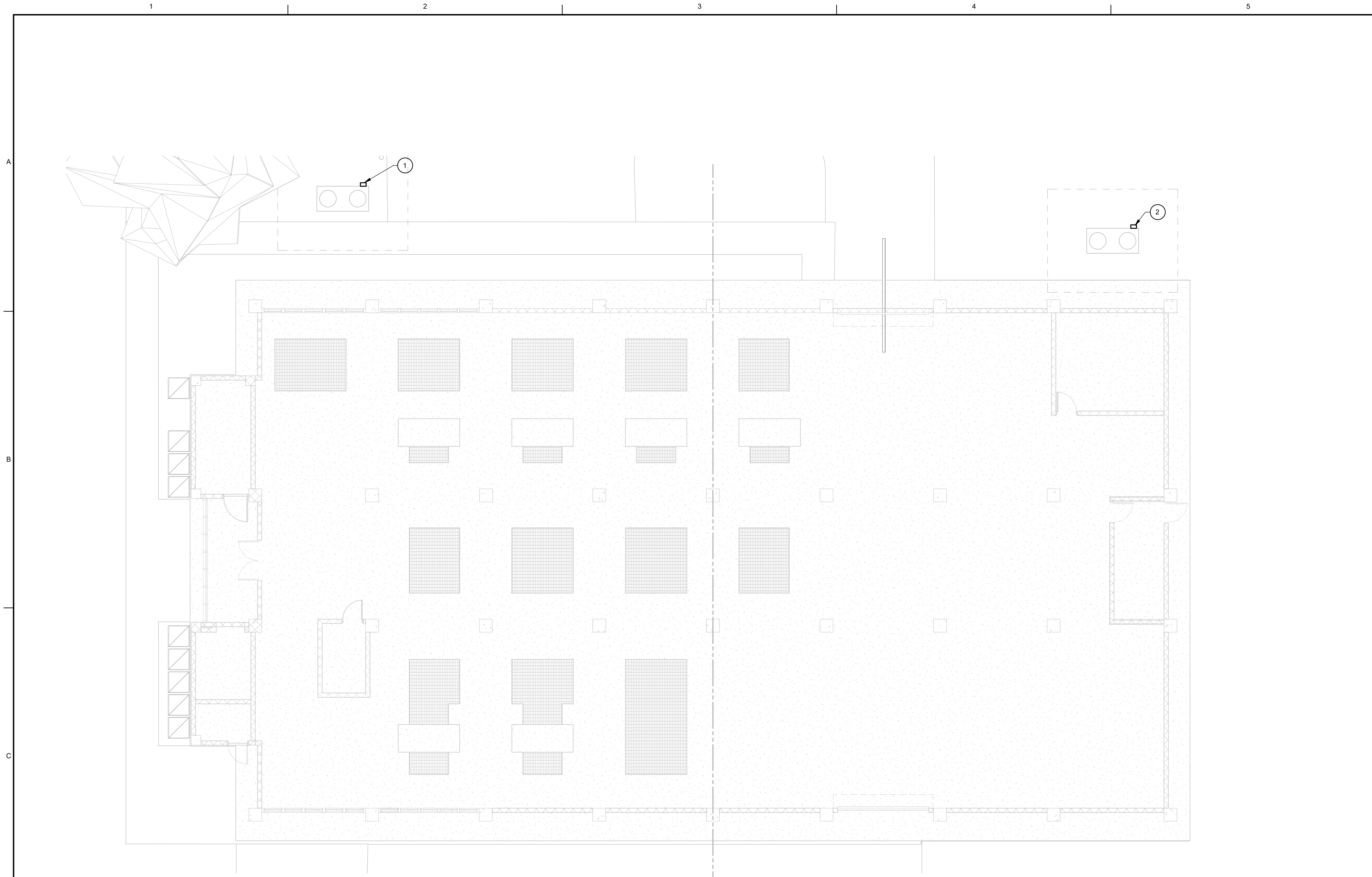


Project Title:
FILTER BUILDING ROOF RETROFIT & SITE IMPROVEMENTS

Drawing Title:
SITE PLAN - ELECTRICAL

Date: 07/08/2022
Proj. No.: D3237903
Drawing No.: S2-ES100

100% CD SET



1 FILTER BUILDING LEVEL 1 - POWER
1/8" = 1'-0"

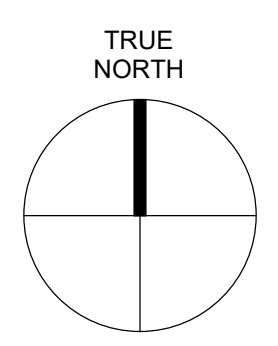
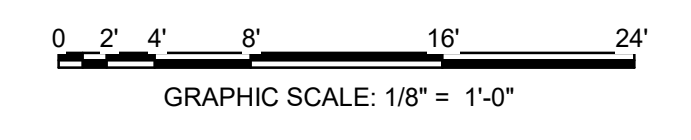
GENERAL NOTES

- A. REFER TO SHEETS S2-E-001 AND S2-E-002 FOR LEGEND AND ABBREVIATIONS.
- B. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR EQUIPMENT FINAL LOCATION.
- C. REFER TO S2-E-500 SERIES DRAWING FOR SUPPLEMENTAL DETAILS.
- D. CONTRACTOR SHALL OFFSET OUTLET BOXES ON OPPOSITE SIDES OF COMMON WALL TO PREVENT SOUND TRANSMISSION BETWEEN ADJOINING ROOMS. BACK TO BACK BOXES SHALL NOT BE PERMITTED.
- E. REFER TO S2-ED-600 SERIES DRAWINGS FOR RISER DIAGRAM. REFER TO MECHANICAL EQUIPMENT SCHEDULES FOR ADDITIONAL ELECTRICAL REQUIREMENTS.
- F. CONTRACTOR SHALL INSTALL ALL PANELS AND ELECTRICAL EQUIPMENT TO MEET THE CLEARANCE REQUIREMENTS OF THE NEC SECTION NEC 110.26(A).
- G. PROVIDE EXPANSION FITTINGS/COUPLINGS AT ALL ABOVE CEILING CONDUITS RUNS AT EXPANSION JOINTS. REFER TO SPECIFICATIONS.

KEYNOTES

- 1 PROVIDE (3) #8 AND (1) #8 GND IN 1" CONDUIT TO CIRCUIT SWBD-1 - 1:3:5. PROVIDE 480V, 3PH 35 BREAKER TO REPLACE EXISTING SPARE BREAKER.
- 2 PROVIDE (3) #8 AND (1) #8 GND IN 1" CONDUIT TO CIRCUIT SWBD-1 - 7:9:11. PROVIDE 480V, 3PH 35 BREAKER TO REPLACE EXISTING SPARE BREAKER.

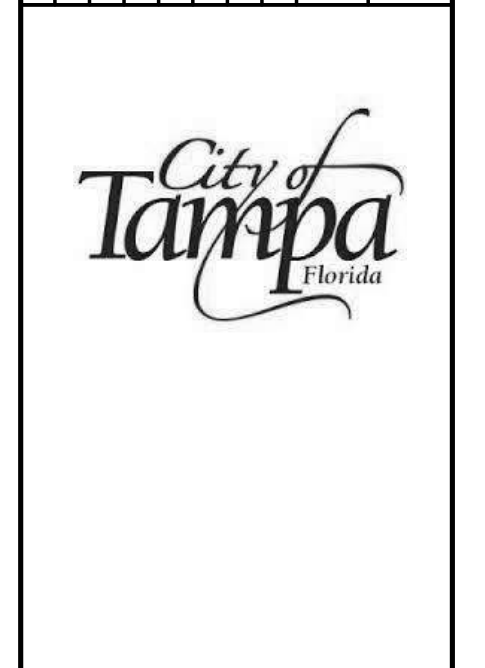
GRAPHIC SCALE



Jacobs
5401 W. KENNEDY BLVD.
STE 300 & 900
Tampa, FL 33609
P:(813) 282-3500
www.jacobs.com

NO.	DATE	DR	DA	REVISION	CHK	LP	APVD	BY	APVD	DA

NO.	DATE	DR	DA	REVISION	CHK	LP	APVD	BY	APVD	DA



Project Title:
FILTER BUILDING ROOF RETROFIT & SITE IMPROVEMENTS

Drawing Title:
FILTER BUILDING LEVEL 1 - POWER

Date: 07/08/2022

Proj. No.: D3237903

Drawing No.: S2-EP100

©Jacobs Engineering Group Inc. 2022 ALL RIGHTS RESERVED 100% CD SET

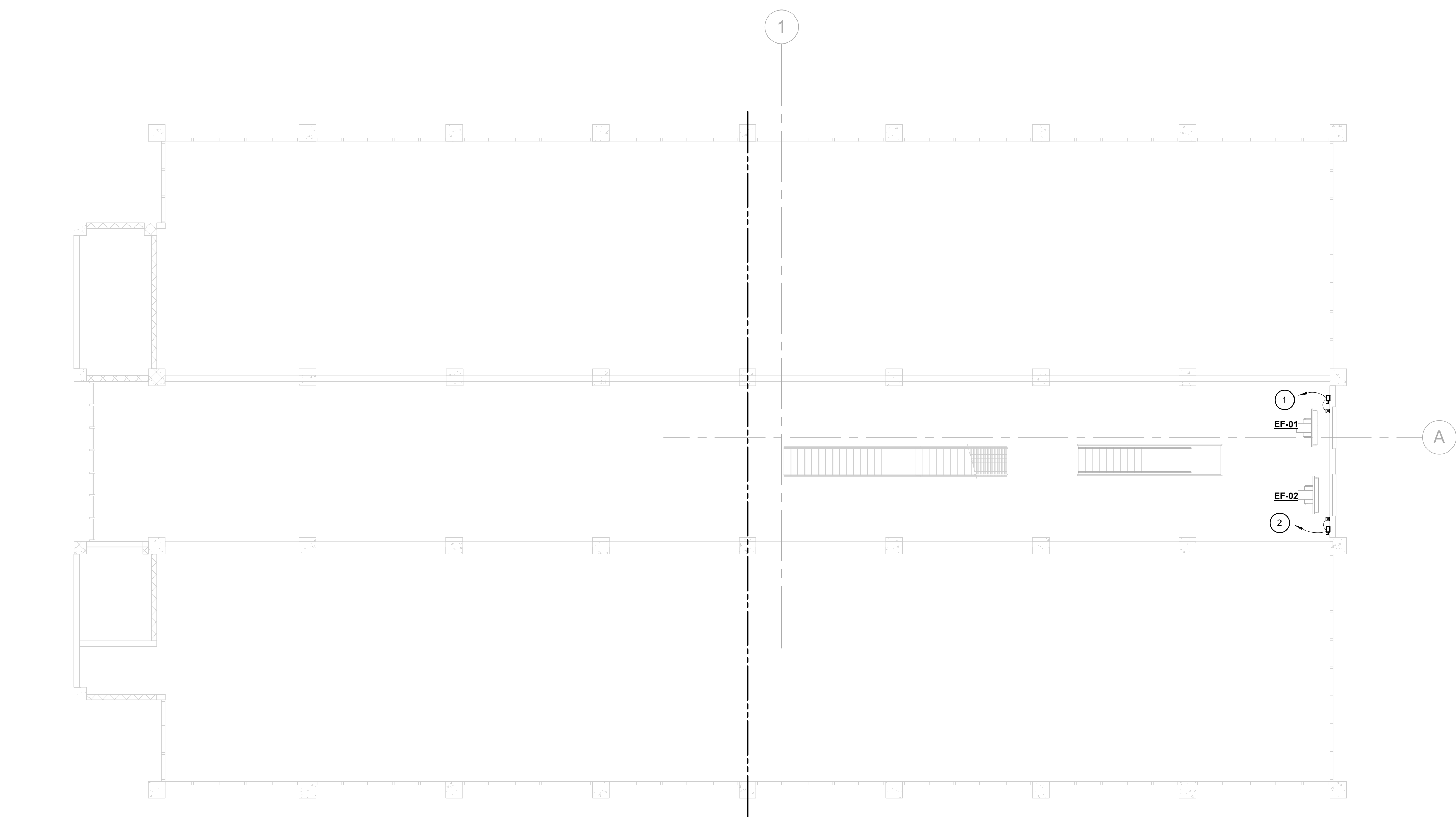
1 2 3 4 5 6

A

B

C

D



1 PIPE GALLERY PLAN - POWER
1/8" = 1'-0"

MECHANICAL SCHEDULE										
LOAD DESCRIPTION	HP or KW	VOLTAGE	NUMBER OF POLES	APPARENT LOAD	LOAD (AMPS)	WIRE SIZE	BREAKER SIZE	DISCONNECT MEANS SIZE	DISCONNECTING MEANS	NOTES
EF-01	2	480 V	3	2826 VA	3 A	3-#10, 1-#10, 1-#10	20 A	30A	NON-FUSED DISCONNECT	DISCONNECT PER MANUFACTURER
EF-02	2	480 V	3	2826 VA	3 A	3-#10, 1-#10, 1-#10	20 A	30A	NON-FUSED DISCONNECT	DISCONNECT PER MANUFACTURER

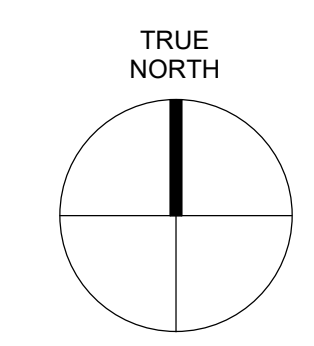
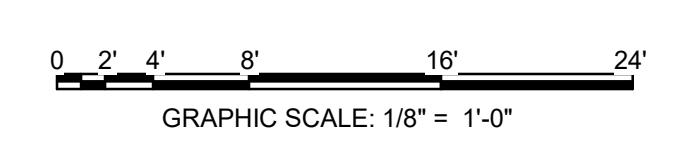
GENERAL NOTES

- A. REFER TO SHEETS S2-E-001 AND S2-E-002 FOR LEGEND AND ABBREVIATIONS.
- B. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR EQUIPMENT FINAL LOCATION.
- C. REFER TO S2-E-500 SERIES DRAWING FOR SUPPLEMENTAL DETAILS.
- D. CONTRACTOR SHALL OFFSET OUTLET BOXES ON OPPOSITE SIDES OF COMMON WALL TO PREVENT SOUND TRANSMISSION BETWEEN ADJOINING ROOMS. BACK TO BACK BOXES SHALL NOT BE PERMITTED.
- E. REFER TO S2-ED-600 SERIES DRAWINGS FOR RISER DIAGRAM. REFER TO MECHANICAL EQUIPMENT SCHEDULES FOR ADDITIONAL ELECTRICAL REQUIREMENTS.
- F. CONTRACTOR SHALL INSTALL ALL PANELS AND ELECTRICAL EQUIPMENT TO MEET THE CLEARANCE REQUIREMENTS OF THE NEC SECTION NEC 110.26(A).
- G. PROVIDE EXPANSION FITTINGS/COUPLINGS AT ALL ABOVE CEILING CONDUITS RUNS AT EXPANSION JOINTS. REFER TO SPECIFICATIONS.

KEYNOTES

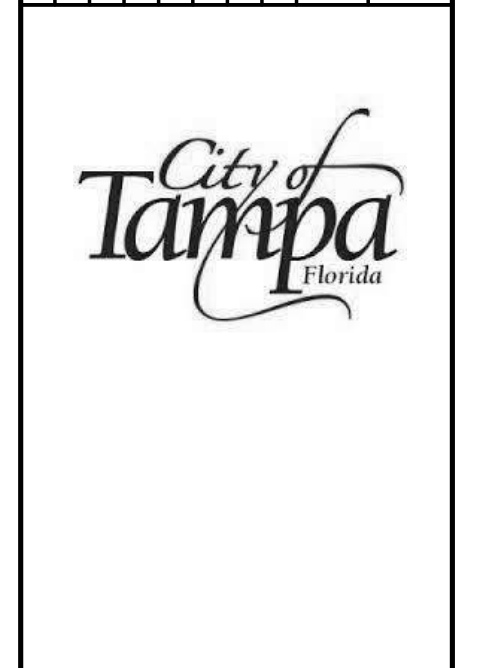
- 1 CONNECT TO SWBD-1 - 2:4.6. PROVIDE 480V 3 PH, 20A BREAKER TO EXISTING SPACE PROVIDED AT SWITCHBOARD. SWDB-1 IS LOCATED ON THE FIRST FLOOR MAIN ELECTRICAL ROOM 102.
- 2 CONNECT TO SWBD-1 - 8:10:12. PROVIDE 480V 3 PH, 20A BREAKER TO EXISTING SPACE PROVIDED AT SWITCHBOARD. SWDB-1 IS LOCATED ON THE FIRST FLOOR MAIN ELECTRICAL ROOM 102.

GRAPHIC SCALE



Jacobs
5401 W. KENNEDY BLVD.
STE 300 & 900
Tampa, FL 33609
P:(813) 282-3500
www.jacobs.com

NO.	DSGN	DATE	DR	REVISION		BY	APVD
				CHK	LP		



Project Title:
FILTER BUILDING ROOF RETROFIT & SITE IMPROVEMENTS

Drawing Title:
PIPE GALLERY - POWER

Date: 07/08/2022

Proj. No.: D3237903

Drawing No.: S2-EP101

© Jacobs Engineering Group Inc. 2022 ALL RIGHTS RESERVED 100% CD SET

1

2

3

4

5

6

A

B

C

D

GENERAL NOTES

- A. REFER TO SHEETS S2-E-001 AND S2-E-002 FOR LEGEND AND ABBREVIATIONS.
- B. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR EQUIPMENT FINAL LOCATION.
- C. REFER TO S2-E-500 SERIES DRAWING FOR SUPPLEMENTAL DETAILS.
- D. CONTRACTOR SHALL OFFSET OUTLET BOXES ON OPPOSITE SIDES OF COMMON WALL TO PREVENT SOUND TRANSMISSION BETWEEN ADJOINING ROOMS. BACK TO BACK BOXES SHALL NOT BE PERMITTED.
- E. REFER TO S2-ED-600 SERIES DRAWINGS FOR RISER DIAGRAM. REFER TO MECHANICAL EQUIPMENT SCHEDULES FOR ADDITIONAL ELECTRICAL REQUIREMENTS.
- F. CONTRACTOR SHALL INSTALL ALL PANELS AND ELECTRICAL EQUIPMENT TO MEET THE CLEARANCE REQUIREMENTS OF THE NEC SECTION NEC 110.26(A).
- G. PROVIDE EXPANSION FITTINGS/COUPLINGS AT ALL ABOVE CEILING CONDUITS RUNS AT EXPANSION JOINTS. REFER TO SPECIFICATIONS.

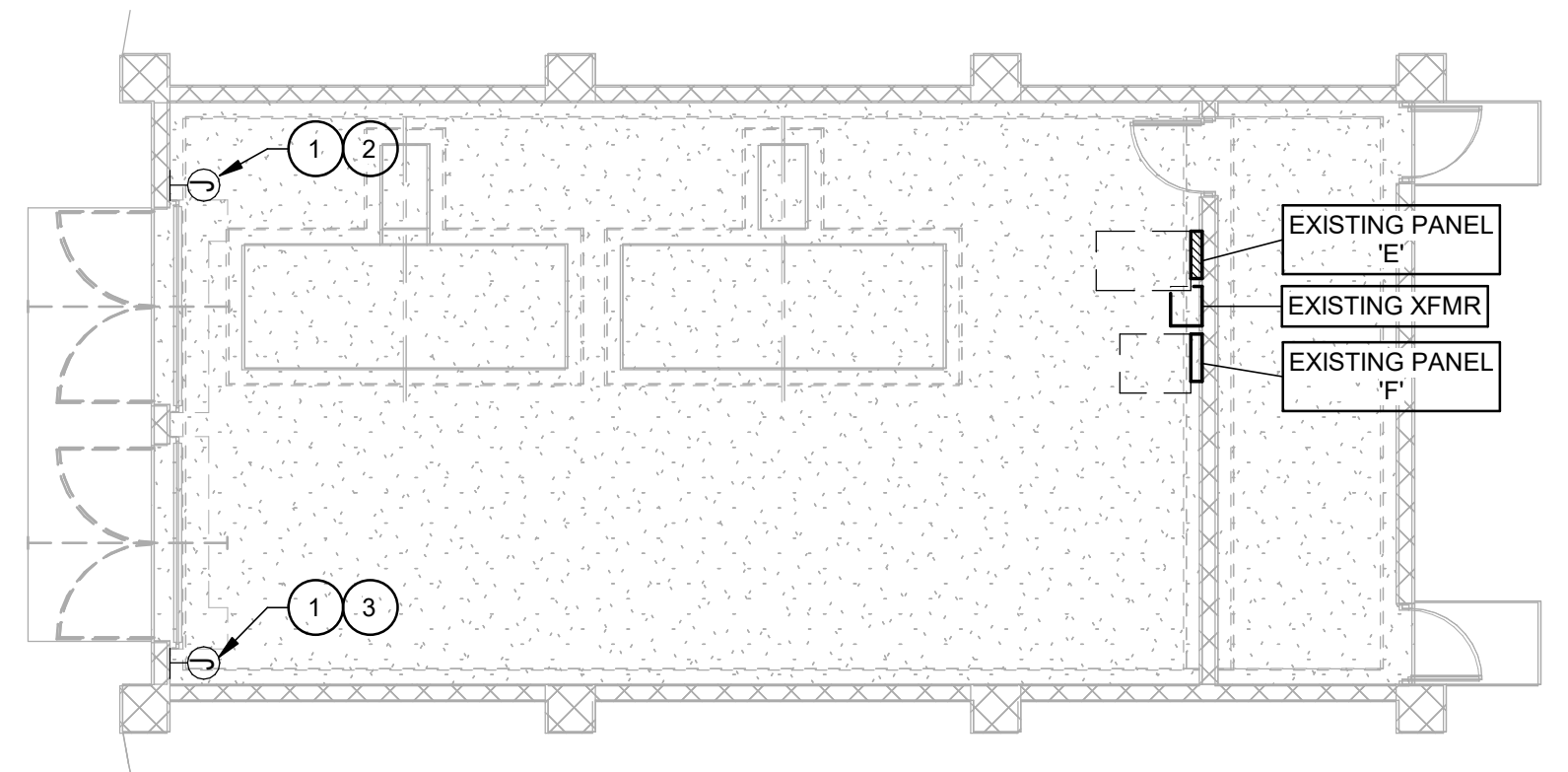


5401 W. KENNEDY BLVD.
 STE 300 & 900
 TAMPA, FL 33609
 P: (813) 282-3500
 WWW.JACOBS.COM

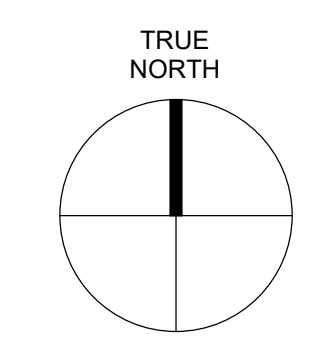
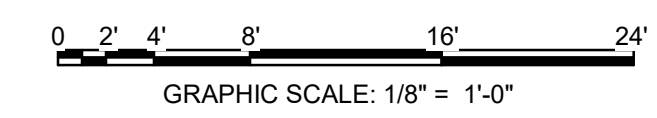
© Jacobs Engineering Group Inc. 2022 ALL RIGHTS RESERVED

KEYNOTES

- 1. PROVIDE JUNCTION BOX FOR OVERHEAD MOTORIZED DOOR CONTROL. COORDINATE EXACT ELECTRICAL REQUIREMENTS WITH DOOR CONTRACTOR PRIOR TO ROUGH IN. (TYPICAL)
- 2. PROVIDE (3) #12 AND (1) #12 GND IN 3/4" CONDUIT TO CIRCUIT E-1:3.5. PROVIDE 480V, 3PH 20 BREAKER IN EXISTING SPACE.
- 3. PROVIDE (3) #12 AND (1) #12 GND IN 3/4" CONDUIT TO CIRCUIT E-2:4.6. PROVIDE 480V, 3PH 20 BREAKER IN EXISTING SPACE.



GRAPHIC SCALE



1 ACCESSORY BUILDING PLAN (FORMER CHLORINE) - POWER

1/8" = 1'-0"

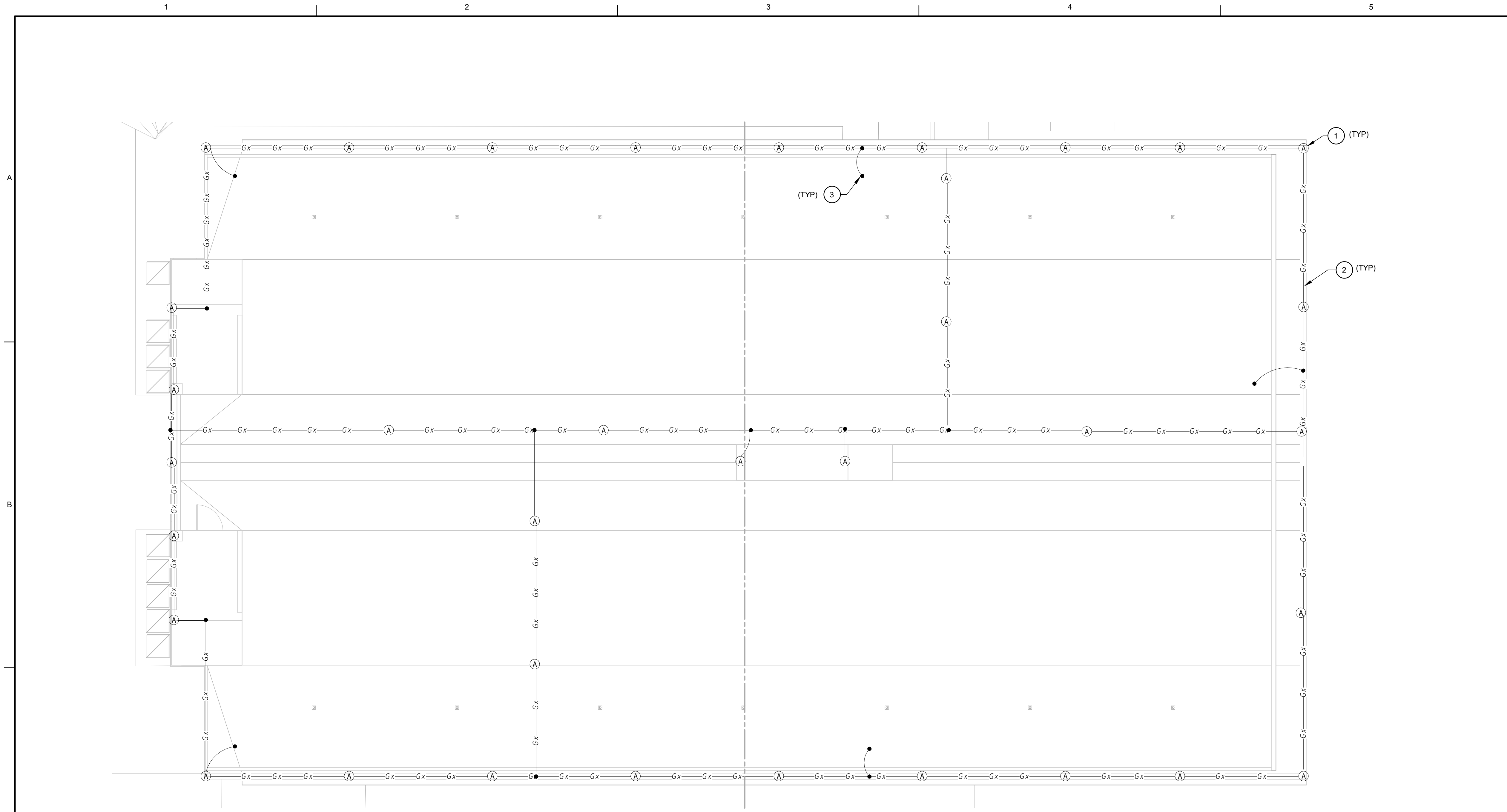


Project Title:
FILTER BUILDING ROOF RETROFIT & SITE IMPROVEMENTS
 Drawing Title:
CHLORINE BUILDING PLAN - POWER

Date: 07/08/2022
 Proj. No.: D3237903
 Drawing No.:

S2-EP103

100% CD SET



1 OVERALL ROOF LIGHTNING PROTECTION PLAN
1/8" = 1'-0"

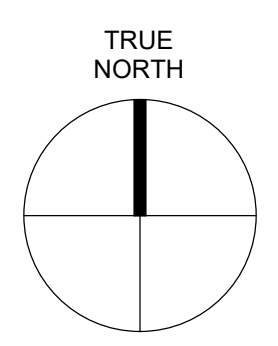
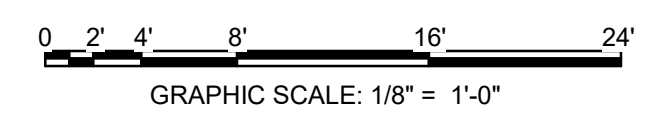
GENERAL NOTES

- A. PROVIDE UL MASTER LABEL FOR LIGHTNING PROTECTION SYSTEM.
- B. THE DESIGNS SHOWN FOR THE LIGHTNING PROTECTION SYSTEM ARE SCHEMATIC AND ARE INTENDED TO SHOW BASIC SYSTEM DESIGN. CONTRACTOR SHALL VERIFY SITE CONDITIONS AND DIMENSIONS AND PROVIDE A LIGHTNING PROTECTION SYSTEM THAT COMPLIES WITH CODE REQUIREMENTS.
- C. ALL CONDUCTOR RUNS SHALL BE PROPERLY SUPPORTED AND CONCEALED WHENEVER POSSIBLE.
- D. COORDINATE AIR TERMINALS MOUNTING AND LOCATION WITH ARCHITECTURAL AND ROOF TOP EQUIPMENT DRAWINGS.
- E. ALL METAL BODIES SUCH AS EXHAUST FANS, VENTS, ROOF LADDERS, ANTENNA SYSTEMS, SHALL BE BONDED TO THE LIGHTNING PROTECTION PLAN SYSTEM IN ACCORDANCE WITH NFPA 780, 2014 EDITION.
- F. REFERENCE DIVISION 26 SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- G. REFERENCE SINGLE-LINE DIAGRAM AND ELECTRICAL GROUNDING RISER DIAGRAM ON SHEET S2-ED-600 FOR ADDITIONAL GROUNDING REQUIREMENTS.
- H. REFERENCE ARCHITECTURAL PLANS AND SPECIFICATIONS FOR ROOF PENETRATION REQUIREMENTS.
- I. CONNECT LIGHTNING PROTECTION SYSTEM TO EXISTING DOWN CONDUCTORS THAT SERVED THE LIGHTNING PROTECTION SYSTEM REMOVED.

KEYNOTES

- 1 PROVIDE CLASS 1, 12" BLUNT TIPPED, SURFACE MOUNTED ALUMINUM AIR TERMINAL. REFER TO DETAIL 1/E-500.
- 2 PROVIDE CLASS 1 ALUMINUM MAIN CONDUCTOR PER NFPA 780.
- 3 TEST EXISTING DOWN CONDUCTOR AND REPLACE IF REQUIRED. CONNECT NEW LIGHTNING PROTECTION SYSTEM TO EXISTING/REPLACED DOWN CONDUCTOR.

GRAPHIC SCALE



5401 W. KENNEDY BLVD.
STE 300 & 900
Tampa, FL 33609
P:(813) 282-3500
www.jacobs.com

NO.	DATE	REVISION	CHK	LP	APVD	DA

NO.	DATE	REVISION	CHK	LP	APVD	DA



Project Title:
FILTER BUILDING ROOF RETROFIT & SITE IMPROVEMENTS
Drawing Title:
ROOF PLAN - LIGHTNING PROTECTION

Date: 07/08/2022
Proj. No.: D3237903
Drawing No.: S2-EG102

100% CD SET

