

CONTRACT DRAWINGS
FOR THE CONSTRUCTION OF

TRIANGLE AREA
CIVIL SITE DEVELOPMENT
PUMP STATION

GRIFFISS INTERNATIONAL AIRPORT
ONEIDA COUNTY, ROME, NEW YORK

MARCH 6, 2026

BID DOCUMENTS

C&S PROJECT NUMBER: 146.205.011

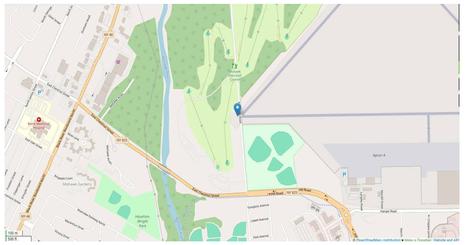
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LOCATION MAP

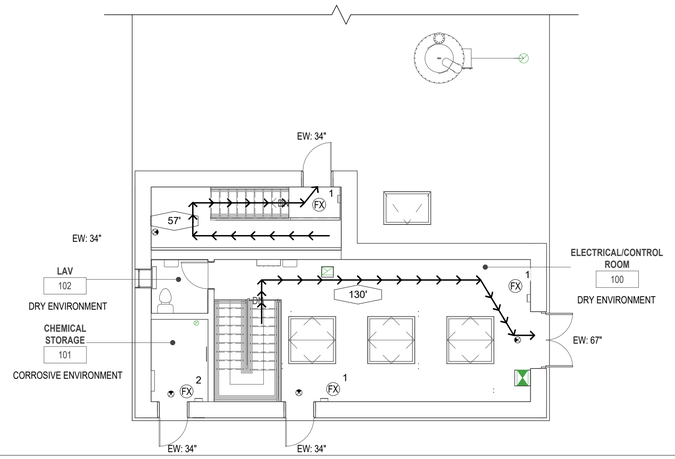
PLAN NORTH

TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THE PLANS AND SPECIFICATIONS FOR THIS PROJECT ARE IN COMPLIANCE WITH THE ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE AND THE BUILDING CODE OF NEW YORK STATE

NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK EDUCATION LAW

G-001

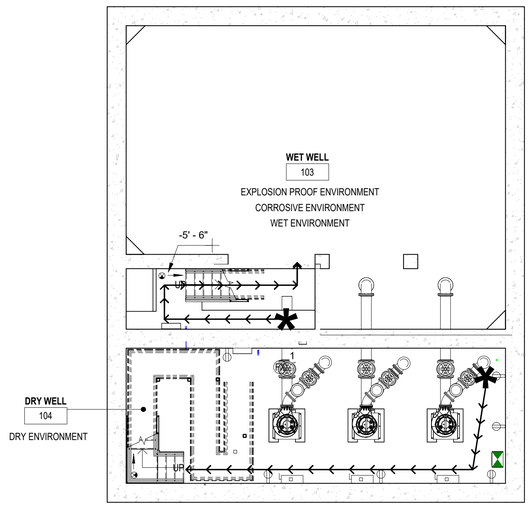
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PLAN NORTH

C1 FIRST FLOOR - FLOOR PLAN - CODE
SCALE: 1/8" = 1'-0"

0 4' 8' 16'



PLAN NORTH

A1 WET WELL & DRY WELL - CODE
SCALE: 1/8" = 1'-0"

0 4' 8' 16'

2025 NEW YORK BUILDING CODE - CODE ANALYSIS

BUILDING TYPE:	IIB
SPRINKLERED:	NO
OCCUPANCY CLASSIFICATION:	UTILITY AND MISCELLANEOUS
TOTAL PROJECT AREA:	2,710 SF

SPECIAL DETAILED REQUIREMENTS	REQUIRED	PROVIDED
HAZARDOUS MATERIALS CONTROL AREA (414.2.4)	2 HR	NA - ENTIRE BLDG IS CONTROL AREA
EXPLOSION CONTROL (414.5.1)	NOT REQUIRED	NOT PROVIDED

GENERAL BUILDING HEIGHTS AND AREAS	ALLOWED	ACTUAL
BUILDING HEIGHT (TABLE 504.3)	55'	17'4"
NUMBER OF STORIES (TABLE 504.4)	3	3
BUILDING AREA (TABLE 506.2)	8,500 SF	2,710 SF

TYPES OF CONSTRUCTION	REQUIRED	PROVIDED
STRUCTURAL FRAME	0 HR	0 HR
BEARING WALLS	0 HR	0 HR
NON-BEARING WALLS	0 HR	0 HR
FLOOR CONSTRUCTION	0 HR	0 HR
ROOF CONSTRUCTION	0 HR	0 HR

APPLICABLE CODES

2025 Building Code of NYS
2025 Fire Code of NYS
2025 Plumbing Code of NYS
2025 Mechanical Code of NYS
2025 Fuel Gas Code of NYS
2025 Energy Conservation Construction Code of NYS
2009 ICC A117.1 Accessible And Usable Buildings

INTERIOR FINISHES	REQUIRED	PROVIDED
GROUP U (TABLE 803.13)	REQUIRED	PROVIDED
EXIT ENCLOSURES AND PASSAGEWAYS	NO RESTRICTIONS	-
CORRIDORS	NO RESTRICTIONS	-
ROOMS AND ENCLOSED SPACES	NO RESTRICTIONS	-

FIRE PROTECTION SYSTEMS	REQUIRED	PROVIDED
GROUP U (SECTION 903.2.11)	NOT REQUIRED	NOT PROVIDED

MEANS OF EGRESS	REQUIRED	PROVIDED
NUMBER OF MEANS OF EGRESS (1006.2.1)	2	4
TOTAL EXIT WIDTH (1010.1.1)	32" MIN	169"
MEANS OF EGRESS SIZING (1005.3.2)	32" TOTAL	32" MIN
GUARDS (1015.6)	30" HEIGHT	42" HEIGHT
OPENING LIMITATIONS AT ELEVATED WALKING SURFACE (1014.4 EXCEPTION 3)	> 21" DIA.	> 21" DIA.
TRAVEL DISTANCE	300' MAX	130'

LIFE SAFETY OCCUPANCY AND OCCUPANT LOAD CALCULATION

SPACE	FUNCTION (TABLE 1004.5)	GROSS SF	NET SF	SF/PERSON	OCCUPANCY
CHEMICAL STORAGE ROOM	ACCESSORY STORAGE	52 SF	52 SF	300 GROSS	1
ELECTRICAL/CONTROL ROOM	MECHANICAL EQUIPMENT ROOM	500 SF	500 SF	300 GROSS	2
DRY WELL	MECHANICAL EQUIPMENT ROOM	580 SF	580 SF	300 GROSS	2
WET WELL	MECHANICAL EQUIPMENT ROOM	980 SF	980 SF	300 GROSS	4
				TOTAL	9

RESTROOM FIXTURE CALCULATION - MINIMUM NUMBER OF PLUMBING FACILITIES (NYS BUILDING CODE - TABLE 2902.1)

		WATER CLOSETS		LAVATORIES	BATHTUBS / SHOWERS	DRINKING FOUNTAINS	OTHERS
SPACE AND OCCUPANCY	OCCUPANTS	MALE	FEMALE				
UTILITY (U)	9 OCCUPANTS	NOT REQUIRED / 1 PROVIDED			NOT REQUIRED	NOT REQUIRED PER 2025 PCNYS SECTION 410.2	1 SERVICE SINK

BATHROOM NOT REQUIRED PER TABLE 2902. BATHROOM NOT REQUIRED TO BE ADA COMPLIANT PER 1103.2.1, 1103.2.4, 1103.2.9

2025 ENERGY CONSERVATION CONSTRUCTION CODE OF NYS

ROME, NY ONEIDA COUNTY - CLIMATE ZONE 6

ROOF	R-34ci
WALLS, ABOVE GRADE	R-15.2ci
WALLS, BELOW GRADE	R-10ci
FLOORS	R-16.7ci
SLAB-ON-GRADE FLOORS, UNHEATED	R-20 FOR 24" BELOW

LIFE SAFETY LEGEND

SYMBOL	DESCRIPTION
XXX'-X"	COMMON PATH OF EGRESS TRAVEL (CPET)
*	EGRESS START POINT
	EXIT SIGNAGE (REFER TO ELECTRICAL DRAWINGS FOR SPECIFIED FIXTURE)
EC	EXIT CAPACITY
EW	EXIT WIDTH
FX 1	FIRE EXTINGUISHER (BRACKET): FIRE EXTINGUISHER 1: (BRACKET) - "COSMIC 5E" UL RATING 4A-80BC AS MANUFACTURED BY JL INDUSTRIES - MOUNTING HEIGHT 12" TO BOTTOM OF FIRE EXTINGUISHER FIRE EXTINGUISHER 2: (BRACKET) - "NEBULA MODEL 272" UL RATING AS MANUFACTURED BY JL INDUSTRIES MOUNTING HEIGHT 12" TO BOTTOM OF FIRE EXTINGUISHER
FX 2	**NOTES: FX1 - UL RATING 2A-10BC** 1. PROVIDE AND INSTALL FIRE EXTINGUISHER WHERE LOCATED ON PLAN. 2. EXTINGUISHER HEIGHTS PER LEGEND OR UNLESS NOTED OTHERWISE. 3. PROVIDE SHOP DRAWINGS FOR APPROVAL.

A3 BASIC PROJECT INFORMATION
SCALE: NOT TO SCALE

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CERTIFICATE OF AUTHORIZATION# 0023741

REGISTERED ARCHITECT MICHAEL W. LAMONTAGNE 019950 STATE OF NEW YORK

REGISTRATION EXPIRES: 05/31/2028

ONEIDA COUNTY 1798 NEW YORK

TRIANGLE AREA CIVIL SITE DEVELOPMENT PUMP STATION GRIFFISS INTERNATIONAL AIRPORT ONEIDA COUNTY, ROME, NEW YORK

MARK	DATE	DESCRIPTION
	REVISIONS	

PROJECT NO:	146.205.011
DATE:	MARCH 6, 2026
DRAWN BY:	L. M. ROYER, AIA
DESIGNED BY:	L. M. ROYER, AIA
CHECKED BY:	A. M. BRUCE, AIA

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CODE COMPLIANCE PLAN

G-100

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GENERAL CONSTRUCTION NOTES

1. THE CONTRACTOR'S ATTENTION IS DIRECTED TO SECTION 70-08, ATTACHMENT A - CONSTRUCTION SAFETY AND PHASING PLAN (CSPP) OF THE GENERAL PROVISIONS.
2. THESE DRAWINGS HAVE BEEN PREPARED, IN PART, BASED UPON RECORD DRAWINGS AND/OR CAD FILES FURNISHED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, THOSE UTILIZING THE INFORMATION ON THESE DRAWINGS ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY PURPOSE.
3. EXISTING UTILITIES WERE TAKEN FROM PLANS OF RECORD. THEY HAVE BEEN SHOWN TO THE EXTENT KNOWN AND ARE OFFERED IN GOOD FAITH SOLELY FOR INFORMATIONAL PURPOSES. THEY MAY NOT REFLECT ACTUAL LOCATIONS AND MAY NOT BE INCLUSIVE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL UTILITIES PRIOR TO THE START OF CONSTRUCTION.
4. ONE WEEK PRIOR TO EXCAVATING IN ANY AREA, THE CONTRACTOR SHALL HAVE AN APPROVED UTILITY LOCATING SERVICE AND MARK OUT ALL UTILITIES. THE CONTRACTOR SHALL MEET WITH AIRPORT OPERATIONS AND THE RPR TO DETERMINE TAXIWAY AND APRON CLOSURE TIMES AND DURATIONS FOR THE LOCATING TASKS. CONTRACTOR SHALL PERFORM SITE INVESTIGATIONS TO VERIFY LOCATION AND DEPTH OF ALL UTILITIES AS NECESSARY. INVESTIGATION TECHNIQUES MAY INCLUDE RF TRACING, GROUND PENETRATING RADAR, VACUUM OR AIR PRESSURE POT-HOLING, OR BY OTHER MEANS APPROVED BY THE RPR CONTRACTOR SHALL ACCURATELY RECORD AND MARK THE LOCATION OF ALL UTILITIES. ALL MARKERS SHALL BE APPROVED BY AIRPORT OPERATIONS AND CANNOT PRESENT A HEIGHT OBSTRUCTION OR FOREIGN OBJECT DEBRIS (FOD) HAZARD TO AIRCRAFT (OBJECTS THAT CAN BE DISLODGED BY JET BLAST/WIND).
5. THE ACTUAL LOCATION AND ELEVATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.
6. IN THE EVENT OF DAMAGE TO EXISTING UTILITIES OR CABLES, THE RPR/ENGINEER AND OWNER SHALL BE NOTIFIED IMMEDIATELY.
7. THE CONTRACTOR SHALL REPAIR ALL DAMAGE TO UTILITIES OR CABLES, AS DIRECTED BY THE ENGINEER, IMMEDIATELY AND AT THE CONTRACTOR'S EXPENSE.
8. ALL AREAS DISTURBED AS A RESULT OF THE CONTRACTOR'S STAGING AND CONSTRUCTION OPERATIONS SHALL BE RESTORED EQUAL TO OR BETTER THAN ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
9. ALL DIRT, DUST, STONES AND LOOSE DEBRIS SHALL BE CONTINUOUSLY REMOVED FROM ALL PAVED SURFACES DURING THIS CONTRACT.
10. THE CONTRACTOR SHALL RECONSTRUCT AND MAINTAIN EXISTING ACCESS ROADS AS REQUIRED FOR ACCESS TO THE WORK AREAS.
11. THE CONTRACTOR SHALL CONSTRUCT AND MAINTAIN PROPOSED GRAVEL ACCESS ROADS AT THE APPROXIMATE LOCATION SHOWN.
12. TEMPORARY ACCESS ROADS SHALL BE REMOVED UPON COMPLETION OF WORK AND THE AREA RESTORED TO ORIGINAL CONDITION.
13. ALL OF THE CONTRACTOR'S OPERATIONS SHALL REMAIN ON AIRPORT AND ONEIDA COUNTY AND CITY OF ROME ROW PROPERTY AT ALL TIMES. UNDER NO CIRCUMSTANCES WILL THE CONTRACTOR BE ALLOWED ON ADJACENT PROPERTY.
14. THIS CONTRACT DOES NOT ALLOW FOR PRICE INCREASES DUE TO ESCALATION IN COST OF UNIT BID ITEMS. THE CONTRACTOR SHALL TAKE THIS INTO CONSIDERATION WHEN PREPARING UNIT PRICES FOR BID.
15. QUALITY CONTROL TESTING SHALL BE PERFORMED BY THE CONTRACTOR'S THIRD-PARTY TESTING FIRM, AT THEIR EXPENSE.
16. QUALITY ASSURANCE TESTS WILL BE MADE BY AND AT THE EXPENSE OF THE OWNER, UNLESS OTHERWISE NOTED. THE COST OF ALL FAILING TESTS SHALL BE BORNE BY THE CONTRACTOR.
17. THE CONTRACTOR'S QUALIFIED REPRESENTATIVE SHALL BE ON SITE ALL TIMES DURING CONSTRUCTION WORK, INCLUDING WORK PERFORMED BY SUBCONTRACTORS. THE CONTRACTOR'S QUALIFIED REPRESENTATIVE SHALL BE AVAILABLE VIA TELEPHONE AT ALL TIMES IN CASE OF EMERGENCIES, SHALL ATTEND WEEKLY PROGRESS MEETINGS AT THE AIRPORT AND BE ABLE TO MAKE DECISIONS ON BEHALF OF THE CONTRACTOR.

GRADING AND EXCAVATION NOTES

18. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL STRIP, SCREEN AND STOCKPILE ALL MATERIAL SUITABLE FOR TOPSOILING.
19. SELECTIVE GRADING SHALL BE REQUIRED AS DIRECTED BY THE ENGINEER.
20. THE QUANTITY OF UNCLASSIFIED EXCAVATION, ITEM P-152, INCLUDES 325 CY OF UNDERCUT EXCAVATION WHICH WILL BE USED ONLY WHEN DIRECTED BY THE ENGINEER.
21. THE EXACT LOCATIONS AND DIMENSIONS OF PAVEMENT TO BE RECONSTRUCTED SHALL BE DETERMINED BY THE ENGINEER DURING CONSTRUCTION.
22. ALL EXCAVATED MATERIAL EXCLUDING PAVEMENTS, SHALL BE DISPOSED OF AT THE ON-SITE SPOIL AREA, AS SHOWN ON THE GENERAL PLAN OR AS OTHERWISE SPECIFIED BY THE OWNER. EXCAVATED SOIL MATERIALS CAN NOT LEAVE THE FORMER USAF PROPERTY. THIS INCLUDES SPOIL MATERIAL SUITABLE FOR EMBANKMENT, TOPSOIL, AND GRANULAR SUBBASES. MATERIALS SHALL BE BROKEN INTO MANAGEABLE PIECES TO ALLOW FOR USE IN EMBANKMENT/FILL AREAS. ALL OTHER MATERIALS SHALL BE DISPOSED OF OFF-SITE AT THE CONTRACTORS EXPENSE INCLUDING CONCRETE, ASPHALT, STRUCTURES, PIPE, CABLE, CONDUIT, ETC.
23. EMBANKMENTS SHALL BE CONSTRUCTED WITH SUITABLE ON-SITE MATERIAL UNLESS OTHERWISE APPROVED BY THE ENGINEER.
24. THE LIMIT FOR TOPSOILING, SEEDING, AND MULCHING ARE THE LIMITS OF GRADING SHOWN ON THE GRADING PLANS. ALL AREAS OUTSIDE OF THE GRADING LIMITS WHICH ARE DISTURBED SHALL BE RESTORED BY THE CONTRACTOR AT HIS EXPENSE.
25. TEMPORARY AIR AND WATER POLLUTION, SOIL EROSION AND SILTATION CONTROL WORK PERFORMED FOR PROTECTION OF CONSTRUCTION AREAS OUTSIDE THE CONSTRUCTION LIMITS, SUCH AS BORROW AREAS AND WASTE AREAS, HAUL ROADS, EQUIPMENT AND MATERIAL STORAGE SITES, AND TEMPORARY PLANT SITES, WILL NOT BE MEASURED AND PAID FOR DIRECTLY BUT SHALL BE CONSIDERED AS A SUBSIDIARY OBLIGATION OF THE CONTRACTOR.
26. ONSITE TOPSOILING WILL BE CONSIDERED A NECESSARY AND INCIDENTAL PART OF THE WORK AND ITS COST SHALL BE CONSIDERED BY THE CONTRACTOR AND INCLUDED IN THE CONTRACT PRICE FOR THE PAY ITEMS OF WORK INVOLVED. TOPSOIL OBTAINED OFF-SITE SHALL BE PER ITEM T-905.
27. ALL SOIL EROSION AND SEDIMENT CONTROL DEVICES AND MATERIALS SHALL BE IN PLACE PRIOR TO BEGINNING EARTHWORK OPERATIONS AND SHALL BE MAINTAINED UNTIL THE NEW SLOPES ARE STABILIZED WITH SEEDING AND/OR SLOPE PROTECTION.
28. FINE GRADING SHALL INCLUDE CREATING A SMOOTH STABLE UNIFORM SURFACE WITH TOPSOIL TO SUPPORT TURF GROWTH. ALL AREAS SHALL BE RAKED OR OTHERWISE CLEARED OF STONES AND OTHER MATERIAL LARGER THAN 1" IN ANY DIAMETER. SURFACES MUST MEET TSA/RSA STANDARDS AND SAFELY ACCOMMODATE THE AIRPORTS MOWING EQUIPMENT.

SURVEY NOTES

29. THE HORIZONTAL DATUM FOR THIS SURVEY IS BASED ON NYS CENTRAL ZONE NAD83(2011)(NORTH AMERICAN DATUM 1983/2011). THE VERTICAL DATUM FOR THIS SURVEY IS BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
30. THE TOPOGRAPHIC FEATURES SHOWN HEREON WERE COMPILED FROM FIELD SURVEY PERFORMED BY AUBERTINE AND CURRIER ARCHITECTS, ENGINEERS AND LAND SURVEYORS, PLLC. DATED AUGUST 1, 2024.

PAVING NOTES

31. EMULSIFIED ASPHALT TACK COAT, ITEM P-603, SHALL BE APPLIED PRIOR TO PLACING EACH LIFT OF PAVEMENT, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
32. TRANSVERSE PAVING JOINTS IN ONE LAYER SHALL LINE UP WITH TRANSVERSE JOINTS IN THE PREVIOUS LAYERS UNLESS OTHERWISE APPROVED BY THE ENGINEER.
33. TRANSVERSE PAVING JOINTS IN ADJACENT LANES SHALL LINE UP WITH EACH OTHER EXTENDING ACROSS THE FULL WIDTH OF PAVEMENT.
34. IN CASES OTHER THAN CENTERLINE JOINTS, LONGITUDINAL PAVING JOINTS IN ONE LAYER SHALL BE OFFSET FROM THAT IN THE PREVIOUS LAYER BY AT LEAST ONE FOOT. THE JOINT AT THE CENTERLINE OF THE PAVEMENT SHALL LINE UP WITH PREVIOUS LAYER CENTERLINE JOINTS.
35. COLD JOINTS SHALL BE SAWCUT BACK A MINIMUM OF 6 INCHES TO EXPOSE A CLEAN, SOUND, UNIFORM VERTICAL SURFACE FOR THE FULL DEPTH OF THE LIFT. THE SAWCUT SHALL NOT BE PERFORMED UNTIL THE PAVEMENT HAS REACHED AMBIENT TEMPERATURE.
36. CONTRACTOR SHALL CONSIDER LOCAL ROAD/HIGHWAY WEIGHT RESTRICTIONS AS PART OF HAULING/TRANSPORT OPERATIONS. DAMAGE TO LOCAL ROAD/HIGHWAY PAVEMENTS CAUSED BY HAULING/TRANSPORT OPERATIONS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
37. 3D DESIGN SURFACE FILES (XML, DTM) CREATED IN AUTOCAD CIVIL3D WILL BE PROVIDED TO THE CONTRACTOR PRIOR TO CONSTRUCTION.
38. THE ENGINEER SHALL BE NOTIFIED IN WRITING (VIA RFI) OF ANY CONDITIONS THAT VARY FROM THOSE SHOWN ON THE PLANS. THE CONTRACTOR'S WORK SHALL NOT VARY FROM THE PLANS WITHOUT THE EXPRESSED APPROVAL OF THE ENGINEER.

A1 GENERAL NOTES
NOT TO SCALE

ABAN. - ABANDONED
AP - ANGLE POINT
APPROX. - APPROXIMATE
ASPH. - ASPHALT
℄ - BASELINE
BLDG. - BUILDING
BM - BENCH MARK
℄ - CENTERLINE
CB - CATCH BASIN
CIP - CAST IRON PIPE
CLSM - CONTROLLED LOW STRENGTH MATERIAL
CMP - CORRUGATED METAL PIPE
COMM. - COMMUNICATION
CONC. - CONCRETE
COND. - CONDUIT
CPP - CORRUGATED POLYETHYLENE PIPE
CSP - CORRUGATED STEEL PIPE
DIA. - DIAMETER
ELEC. - ELECTRICAL
ELEV. - ELEVATION
EX. - EXISTING
FND. - FOUNDATION
GC - GRADE CHANGE
HP - HIGH POINT
INV. - INVERT
LT - LEFT
LP - LOW POINT
MAX. - MAXIMUM
MIN. - MINIMUM
MISC. - MISCELLANEOUS
N - NORTHING
NA - NOT APPLICABLE
O.C. - ON CENTER
OPER. - OPERATOR
PAVT. - PAVEMENT
PC - POINT OF CURVATURE
PCC - PORTLAND CEMENT CONCRETE PAVEMENT
PI - POINT OF INTERSECTION
℄ - PROPERTY LINE
POC - POINT ON CURVE
PRC - POINT OF REVERSE CURVE
PT- POINT OF TANGENCY
PVI - POINT OF VERTICAL INTERSECTION
PVC - POINT OF CURVATURE (VERTICAL CURVE)
PVC - POLYVINYL CHLORIDE PIPE
PVT - POINT OF TANGENCY (VERTICAL CURVE)
R - RADIUS
RCP - REINFORCED CONCRETE PIPE
ROW - RIGHT OF WAY
RPR - RESIDENT PROJECT REPRESENTATIVE
RT - RIGHT
RW - RUNWAY
SHDR. - SHOULDER
SICPP - SMOOTH INTERIOR CORRUGATED POLYETHYLENE PIPE
STA. - STATION
TELCOM - TELECOMMUNICATION
TYP. - TYPICAL
UD - UNDERDRAIN
UGND - UNDERGROUND
V - VARIES

A3 ABBREVIATIONS
NOT TO SCALE

BASELINE CONTROL POINTS

POINT ID	NORTHING	EASTING	ELEVATION	DESCRIPTION
CP-101 (RME-A)	1,178,790.450	1,134,861.370	473.70'	PRIMARY AIRPORT CONTROL STATION (PACS)
CP-16003	1,178,821.676	1,129,507.147	479.37'	5/8" REBAR WITH CAP SET
CP-16005	1,179,023.956	1,129,033.073	479.59'	5/8" REBAR WITH CAP SET
CP-16007	1,178,795.454	1,128,583.264	479.86'	5/8" REBAR WITH CAP SET
CP-16050	1,178,762.932	1,128,231.015	480.67'	5/8" REBAR WITH CAP SET

BENCHMARK

ID	ELEVATION	DESCRIPTION
BM-1	481.55'	SPIKE SET IN POLE

NOTES:

1. THE HORIZONTAL DATUM FOR THIS SURVEY IS BASED ON NYS CENTRAL ZONE NAD83(2011) (NORTH AMERICAN DATUM 1983/2011).
2. THE VERTICAL DATUM FOR THIS SURVEY IS BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
3. ALL HORIZONTAL AND VERTICAL CONTROL IS REFERENCED TO PRIMARY AIRPORT CONTROL STATION (PACS) "RME A", WITH AN ELEVATION OF 473.70'.

A4 SURVEY CONTROL
NOT TO SCALE

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CERTIFICATE OF AUTHORIZATION #: 0021365



REGISTRATION EXPIRES: 07/31/27



TRIANGLE AREA CIVIL SITE DEVELOPMENT PUMP STATION GRIFFISS INTERNATIONAL AIRPORT ONEIDA COUNTY, ROME, NEW YORK

MARK	DATE	DESCRIPTION

REVISIONS

PROJECT NO: 146.205.011
DATE: MARCH 6, 2026
DRAWN BY: B. BUCKINGHAM
DESIGNED BY: E. PROCOPIO, P.E.
CHECKED BY: E. N. KENNA, P.E.

NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK EDUCATION LAW

GENERAL NOTES, ABBREVIATIONS, AND SURVEY CONTROL

CS-001

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CONTRACTOR SHALL PROTECT UTILITIES TO BE INSTALLED BY SPECTRUM, GUSC, AND NATIONAL GRID

CONTRACTOR PROHIBITED FROM USING PERIMETER ROAD FOR CONSTRUCTION ACCESS. CONTRACTOR TO COORDINATE WITH MIRON CONSTRUCTION FOR ACCESS TO CONSTRUCTION SITE

ABANDONED AIRFIELD PAVEMENT
TAXIWAY E
AIRCRAFT APRON
FUEL FACILITIES
USE CAUTION NEAR EXISTING UTILITIES
USE CAUTION NEAR EXISTING UTILITIES
PERIMETER ROAD
PROPOSED ROUTE FOR CONSTRUCTION ACCESS
NYS ROUTE 825
HANGAR RD
PROPOSED CONSTRUCTION ACCESS GATE
CHAPPIE JAMES BLVD
PROPOSED ROUTE FOR CONSTRUCTION SITE ACCESS
BROOKS RD
CP-16002
CP-16003
CP-16004
CP-16005
CP-16006
CP-16007
CP-16008
CP-16009
CP-16010
CP-16011
CP-16012
CP-16013
CP-16014
CP-16015
BM-1
BM-2
BM-3
BM-103
PLAN NORTH
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A1 SITE PLAN
SCALE: 1" = 200'

200' 200 0 200 400FT.

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CERTIFICATE OF AUTHORIZATION #: 0021365

STATE OF NEW YORK ERIC KENNA 085555 LICENSED PROFESSIONAL ENGINEER

REGISTRATION EXPIRES: 07/31/27

ONEIDA COUNTY 1798 NEW YORK

TRIANGLE AREA CIVIL SITE DEVELOPMENT PUMP STATION GRIFFISS INTERNATIONAL AIRPORT ONEIDA COUNTY, ROME, NEW YORK

MARK	DATE	DESCRIPTION

REVISIONS

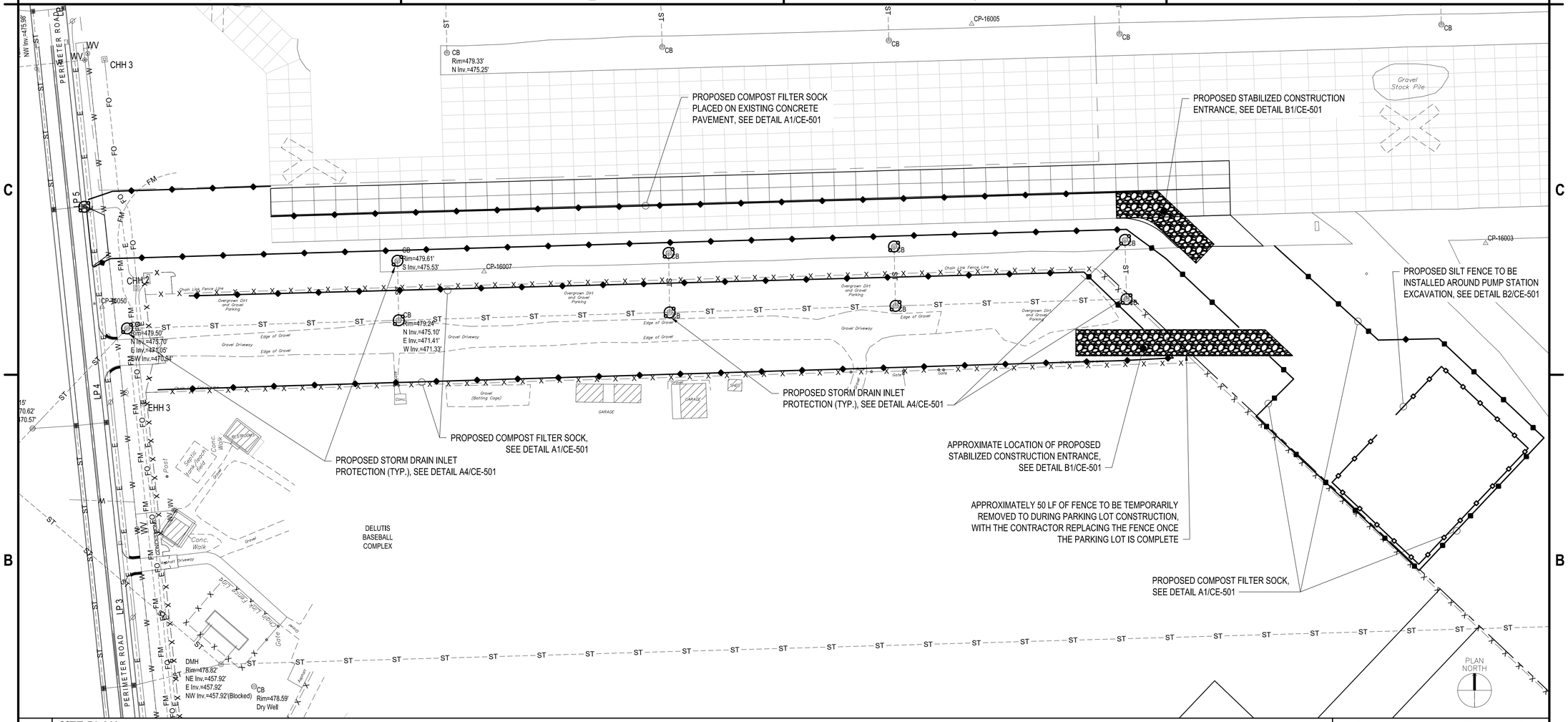
PROJECT NO:	146.205.011
DATE:	MARCH 6, 2026
DRAWN BY:	B. BUCKINGHAM
DESIGNED BY:	E. PROCOPIO, P.E.
CHECKED BY:	E. N. KENNA, P.E.

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CONSTRUCTION ACCESS PLAN

CS-002

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B1 SITE PLAN

SCALE: 1" = 50'

PROPOSED COMPOST FILTER SOCK, SEE DETAIL A1/CE-501

PROPOSED SILT FENCE, SEE DETAIL B2/CE-501

PROPOSED STORM DRAIN INLET PROTECTION, SEE DETAIL A4/CE-501

A1 LEGEND

SCALE: NOT TO SCALE

A2 EROSION CONTROL NOTES

SCALE: NOT TO SCALE

1. REFER TO THE SPECIFICATIONS AND STORM WATER POLLUTION PREVENTION PLAN (SWPPP) FOR REQUIREMENTS. THE CONTRACTOR SHALL STRICTLY ADHERE TO THE REQUIREMENTS OF THE SWPPP DURING CONSTRUCTION OPERATIONS. ADDITIONAL EROSION CONTROL MEASURES MAY BE NECESSARY, IF DEEMED BY THE ONSITE SWPPP INSPECTION REPORTS.
2. SOIL EROSION AND SEDIMENT CONTROL FACILITIES SHALL BE INSTALLED AND FULLY FUNCTIONAL PRIOR TO ANY SITE DISTURBANCE. SOIL EROSION AND SEDIMENT CONTROL FACILITIES ARE TO BE MAINTAINED DURING CONSTRUCTION AND REMOVED UPON COMPLETION OF CONSTRUCTION.
3. ALL ROADWAYS SHALL BE KEPT CLEAN OF MUD AND DEBRIS. FILL SHALL NOT BE SPILLED ONTO ROADWAY. ALL SPILLED MATERIALS SHALL BE PROMPTLY REMOVED.
4. THE AREAS OF CONSTRUCTION SHALL BE LEFT IN STABLE CONDITION AT THE CLOSE OF EACH CONSTRUCTION DAY.
5. STORM INLETS SHALL BE PROTECTED FROM SEDIMENTATION DURING CONSTRUCTION BY USE OF INLET PROTECTION OR OTHER APPROVED MEANS.
6. SOIL STOCKPILE AREAS ARE TO BE IMMEDIATELY SURROUNDED WITH SILT FENCING, OR OTHER EROSION CONTROL MEASURES OR AS ORDERED BY THE OWNER'S REPRESENTATIVE.
7. GENERAL CONTRACTOR TO PROVIDE APPROVED DUST CONTROL MEASURES. THE GENERAL CONTRACTOR SHALL HAVE A WATER TRUCK OR OTHER ACCEPTABLE MEANS OF CONTROLLING DUST AVAILABLE AT ALL TIMES.
8. ALL EROSION CONTROL FACILITIES SHALL BE INSPECTED AS OUTLINED IN THE APPROVED SWPPP FOR THE PROJECT. ANY NECESSARY REPAIRS SHALL BE MADE IMMEDIATELY TO ENSURE FUNCTIONALITY.
9. GENERAL CONTRACTOR SHALL TOPSOIL, SEED AND MULCH ALL DISTURBED AREAS WITHIN 7 DAYS OF INACTIVITY.
10. ALL DE-WATERING WORK PERFORMED AT THE SITE SHALL HAVE FILTER SYSTEMS IN PLACE SUCH THAT NO SILT LADEN WATER LEAVES THE WORK SITE.
11. EACH CONTRACTOR THAT PERFORMS SITE EXCAVATION OR SOIL DISTURBANCE SHALL PROVIDE THE REQUIRED TEMPORARY SOIL AND EROSION CONTROL THAT IS RELATED TO THEIR WORK.

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CHECKED BY:	E. N. KENNA, P.E.

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EROSION AND SEDIMENT CONTROL PLAN

CE-100

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STABILIZED CONSTRUCTION ENTRANCE NOTES:

1. STONE SIZE - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.

2. LENGTH - NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).

3. THICKNESS - NOT LESS THAN SIX (6) INCHES.

4. WIDTH - TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.

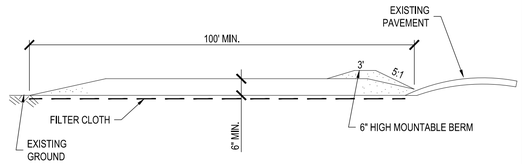
5. FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.

6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.

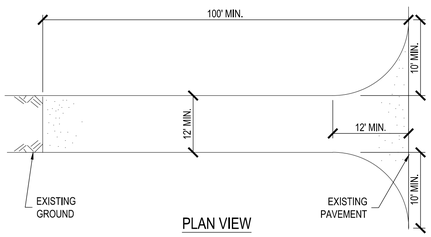
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACTED ONTO PUBLIC RIGHTS-OF- WAY MUST BE REMOVED IMMEDIATELY.

8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.

9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

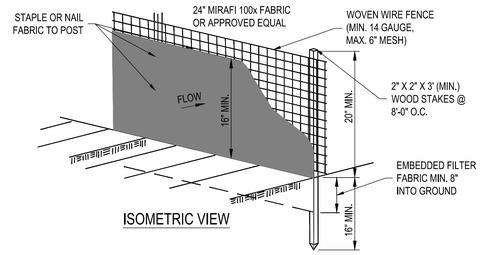


PROFILE



PLAN VIEW

B1 STABILIZED CONSTRUCTION ENTRANCE DETAIL
NOT TO SCALE



ISOMETRIC VIEW

SILT FENCE NOTES:

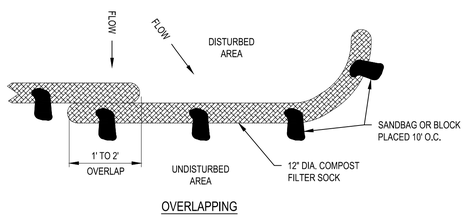
1. WOVEN WIRE FENCE SHALL BE SECURELY FASTENED TO FENCE POSTS WITH WIRE TIES OR STAPLES.

2. SILT FENCE FABRIC SHALL BE SECURELY FASTENED TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID-SECTION, WHEN TWO SECTIONS OF SILT FENCE FABRIC ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY 6" AND FOLDED.

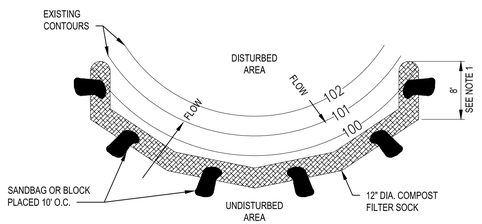
3. MAINTENANCE SHALL BE PROVIDED BY THE CONTRACTOR AS DIRECTED BY ENGINEER AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

4. CONTRACTOR SHALL REMOVE THE SILT FENCE AT THE APPROPRIATE TIME, DRESS THE DISTURBED AREAS, AND DISPOSE OF THE SILT FENCE.

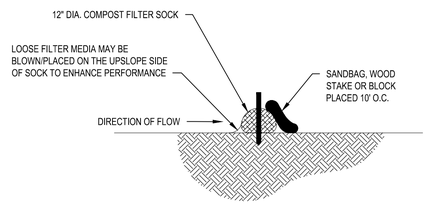
B2 SILT FENCE DETAIL
NOT TO SCALE



OVERLAPPING



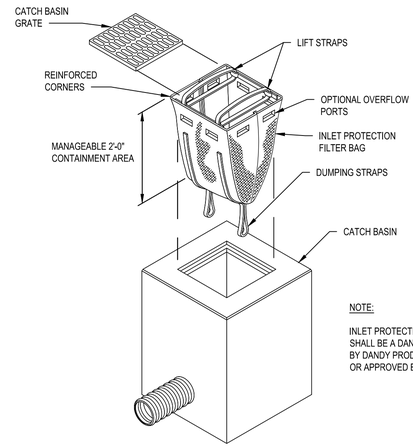
PLAN VIEW



NOTES:

1. COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE SOCK SHALL BE EXTENDED AT LEAST 8' UP SLOPE AT 45° TO THE MAIN SOCK ALIGNMENT. STAKES MAY BE INSTALLED IMMEDIATELY DOWNSLOPE OF THE SOCK IF SO SPECIFIED BY THE MANUFACTURER.
2. TRAFFIC SHALL NOT BE PERMITTED TO CROSS FILTER SOCKS.
3. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES HALF THE ABOVEGROUND HEIGHT OF THE SOCK AND DISPOSED OF OFF-SITE.
4. SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.
5. BIODEGRADABLE FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
6. UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCKS, STAKES SHALL BE REMOVED. THE SOCK MAY BE LEFT IN PLACE, DISPERSED EVENLY AND VEGETATED OR REMOVED. IN THE LATTER CASE, THE MESH SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT. NON-BIODEGRADABLE PRODUCTS SHALL BE REMOVED.

A1 COMPOST FILTER SOCK DETAIL
NOT TO SCALE



NOTE:

INLET PROTECTION FILTER BAG SHALL BE A DANDY SACK™ BY DANDY PRODUCTS, INC. OR APPROVED EQUAL.

A4 STORM DRAIN INLET PROTECTION DETAIL
NOT TO SCALE

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CERTIFICATE OF AUTHORIZATION #: 0021365

STATE OF NEW YORK ERIC KENNA LICENSED PROFESSIONAL ENGINEER 085935

REGISTRATION EXPIRES: 07/31/27

ONEIDA COUNTY 1798 NEW YORK

TRIANGLE AREA CIVIL SITE DEVELOPMENT PUMP STATION GRIFFISS INTERNATIONAL AIRPORT ONEIDA COUNTY, ROME, NEW YORK

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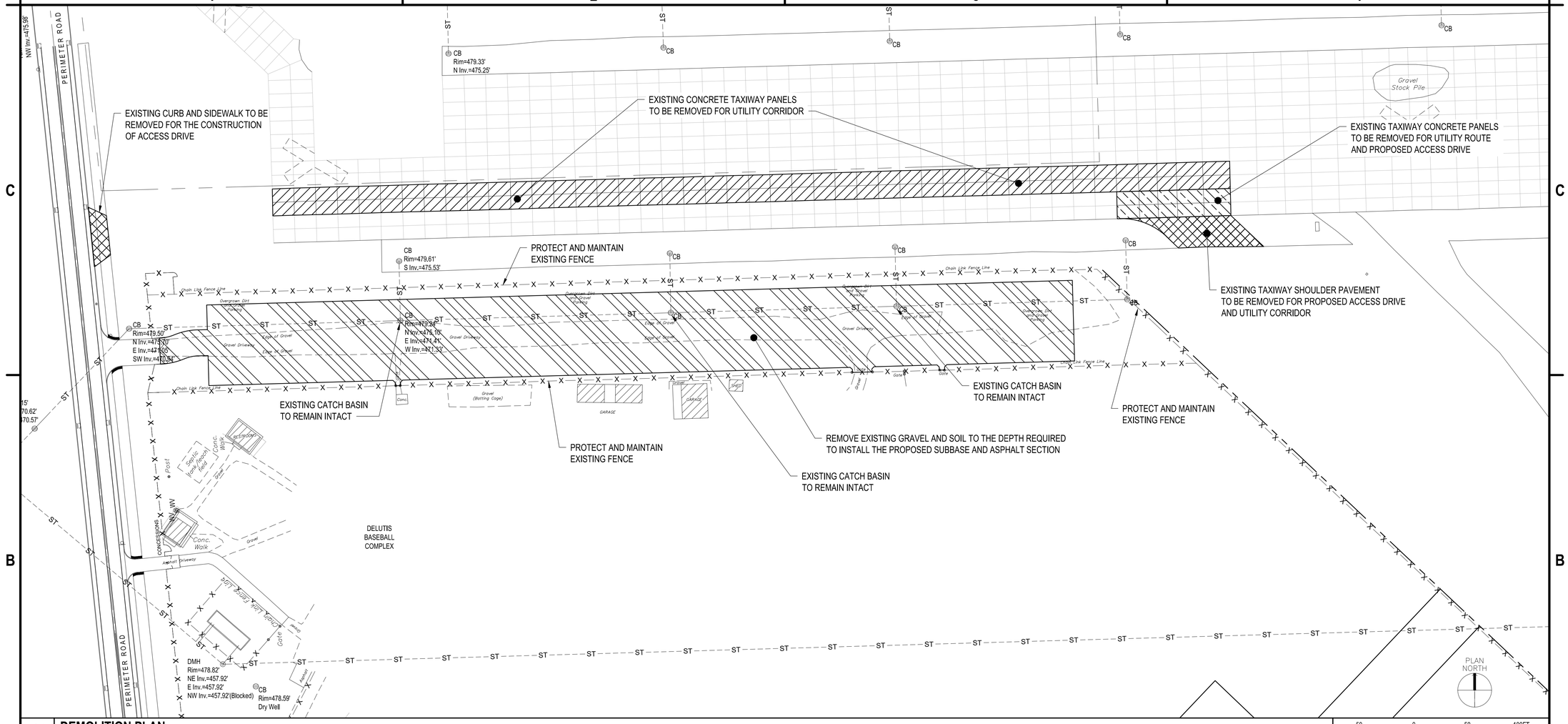
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EROSION AND SEDIMENT CONTROL DETAILS

CE-501

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B1 DEMOLITION PLAN

SCALE: 1" = 50'

EXISTING 7" THICK CONCRETE PAVEMENT TO BE REMOVED EXISTING SUBBASE TO REMAIN, AREA TO BE USED FOR UTILITY CORRIDOR

EXISTING 7" THICK CONCRETE PANELS TO BE REMOVED, WITH SOME SUBBASE TO BE REMOVED FOR UTILITY TRENCHING AND PROPOSED PAVEMENT SECTION

EXISTING CURB, SIDEWALK AND 6" THICK TAXIWAY SHOULDER PAVEMENT TO BE REMOVED FOR PROPOSED PAVEMENT SECTION

REMOVE EXISTING GRAVEL AND SOIL TO THE DEPTH REQUIRED TO INSTALL THE PROPOSED SUBBASE AND ASPHALT SECTION

A1 DEMOLITION LEGEND

NOT TO SCALE

1. REMOVE CONCRETE / ASPHALT AND SUBBASE MATERIAL (FULL DEPTH).
2. DO NOT UNDERMINE FOUNDATIONS FOR EXISTING BUILDINGS OR PAVEMENTS AT ANY TIME.
3. CONTRACTOR TO COORDINATE ALL UTILITY WORK WITH ONEIDA COUNTY AND ASSOCIATED UTILITY COMPANY PRIOR TO PERFORMING ANY UTILITY WORK.
4. SAWCUT EXISTING PAVEMENT, CONCRETE PADS, CONCRETE SIDEWALKS, CONCRETE CURBS, AND EXISTING UTILITY PIPING PRIOR TO REMOVAL OF SUCH.
5. ALL SAWCUTS AT CONCRETE SIDEWALKS ARE TO BE AT THE NEAREST EXISTING JOINT.
6. REMOVE EXISTING PAVEMENT AS REQUIRED TO INSTALL THE NEW WORK.
7. ALL EXCESS EXCAVATED MATERIAL EXCLUDING PAVEMENTS, SHALL BE DISPOSED OF AT THE ON-SITE SPOIL AREA, AS SPECIFIED AND COORDINATED WITH THE OWNER'S REPRESENTATIVE. EXCAVATED SOIL MATERIALS CAN NOT LEAVE THE FORMER USAF PROPERTY. THIS INCLUDES SPOIL MATERIAL SUITABLE FOR EMBANKMENT, TOPSOIL, AND GRANULAR SUBBASES. MATERIALS SHALL BE BROKEN INTO MANAGEABLE PIECES TO ALLOW FOR USE IN EMBANKMENT/FILL AREAS. ALL OTHER MATERIALS SHALL BE DISPOSED OF OFF-SITE AT THE CONTRACTORS EXPENSE INCLUDING CONCRETE, ASPHALT, STRUCTURES, PIPE, CABLE,CONDUIT, ETC.

A2 SHEET NOTES

NOT TO SCALE

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REGISTRATION EXPIRES: 07/31/27

ONEIDA COUNTY · 1798 · NEW YORK

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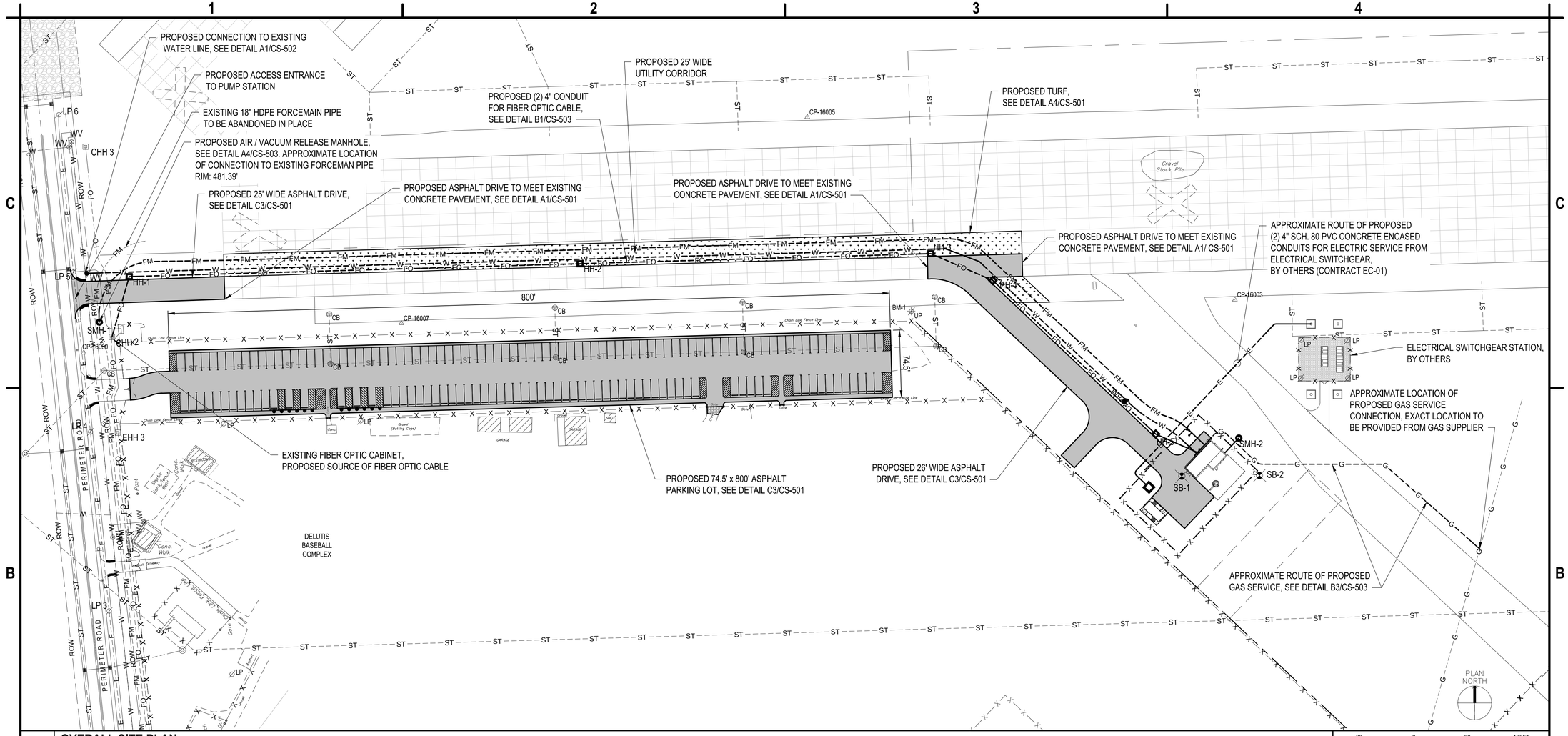
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DEMOLITION PLAN

CD-100

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B1 OVERALL SITE PLAN

SCALE: 1" = 60'

PROPOSED ASPHALT ACCESS DRIVE AND PARKING LOT

PROPOSED TURF

PROPOSED WATER SERVICE

PROPOSED SANITARY FORCEMAIN SERVICE

PROPOSED ELECTRIC SERVICE

PROPOSED GAS SERVICE

PROPOSED FIBER OPTIC COMMUNICATION SERVICE

HH-1 PROPOSED COMMUNICATION HAND HOLE

SMH-1 PROPOSED SANITARY MANHOLE

PROPOSED BOLLARD

PROPOSED SIGN

A1 LEGEND

NOT TO SCALE

COMMUNICATION HAND HOLE POINT TABLE		
STRUCTURE NO.	NORTHING	EASTING
HH-1	1,178,847.28	1,128,281.51
HH-2	1,178,861.57	1,128,781.31
HH-3	1,178,872.75	1,129,170.02
HH-4	1,178,842.99	1,129,230.06
HH-5	1,178,668.33	1,129,415.22

SANITARY MANHOLE POINT TABLE		
STRUCTURE NO.	NORTHING	EASTING
SMH-1	1,178,796.81	1,128,248.39
SMH-2	1,178,668.28	1,129,511.45

A2 UTILITY STRUCTURE POINT TABLE

NOT TO SCALE

A3 GENERAL NOTES

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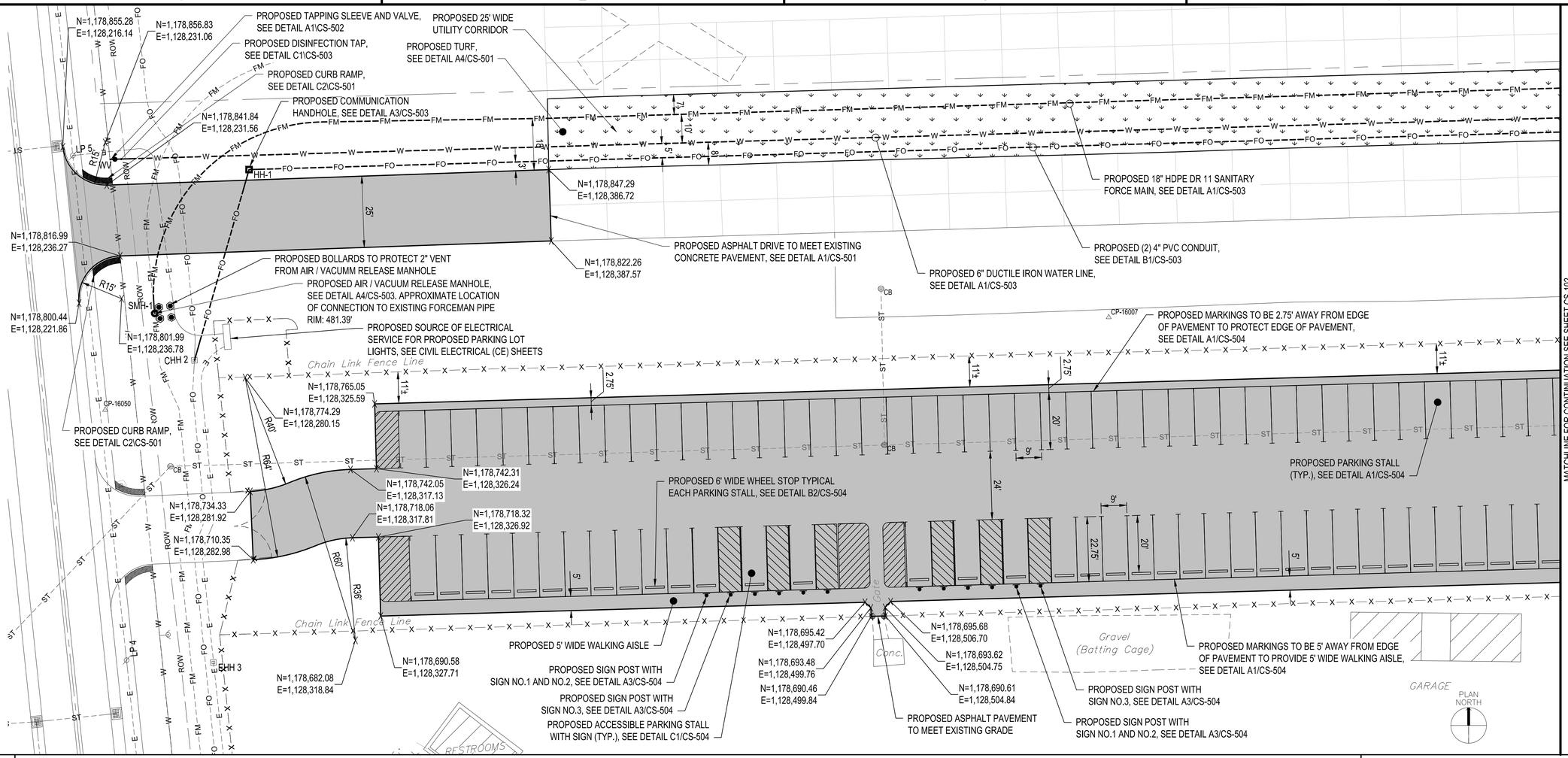
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OVERALL SITE PLAN

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B1 SITE PLAN
SCALE: 1" = 20'

20 0 20 40FT.
20'

	PROPOSED ASPHALT ACCESS DRIVE
	PROPOSED TURF
W	PROPOSED WATER SERVICE
FM	PROPOSED SANITARY FORCEMAIN SERVICE
E	PROPOSED ELECTRIC SERVICE
G	PROPOSED GAS SERVICE
FO	PROPOSED FIBER OPTIC COMMUNICATION SERVICE
HH-1	PROPOSED COMMUNICATION HAND HOLE
SMH-1	PROPOSED SANITARY MANHOLE
	PROPOSED BOLLARD
	PROPOSED SIGN
WV	PROPOSED WATER VALVE

A1 LEGEND
NOT TO SCALE

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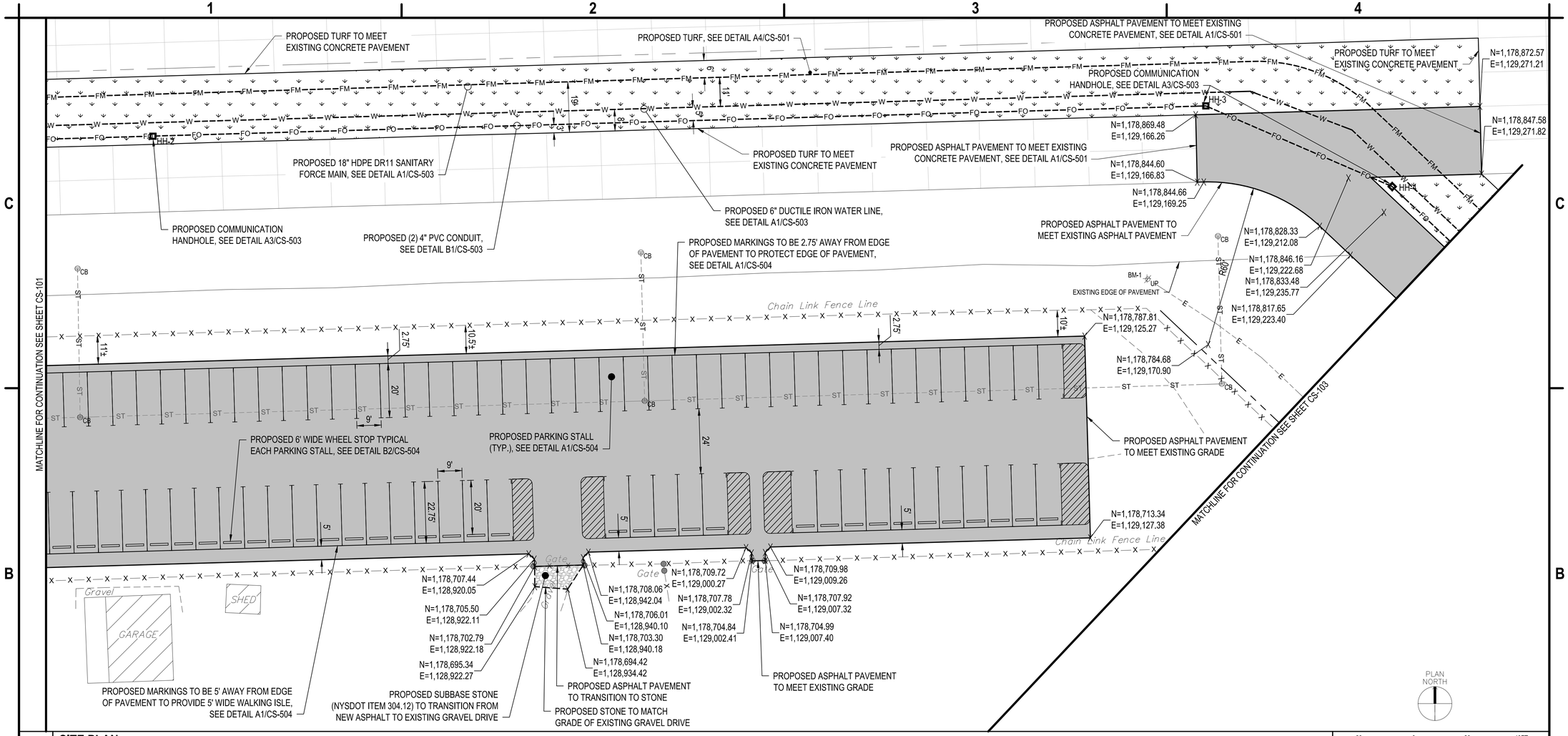
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SITE PLAN

CS-101

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B1 SITE PLAN

SCALE: 1" = 20'

20 0 20 40FT.
20'

A1 LEGEND

NOT TO SCALE

- PROPOSED ASPHALT ACCESS DRIVE
- PROPOSED TURF
- PROPOSED WATER SERVICE (W)
- PROPOSED SANITARY FORCEMAIN SERVICE (FM)
- PROPOSED ELECTRIC SERVICE (E)
- PROPOSED GAS SERVICE (G)
- PROPOSED FIBER OPTIC COMMUNICATION SERVICE (FO)
- PROPOSED COMMUNICATION HAND HOLE (HH-1)
- PROPOSED SANITARY MANHOLE (SMH-1)
- PROPOSED BOLLARD
- PROPOSED SIGN

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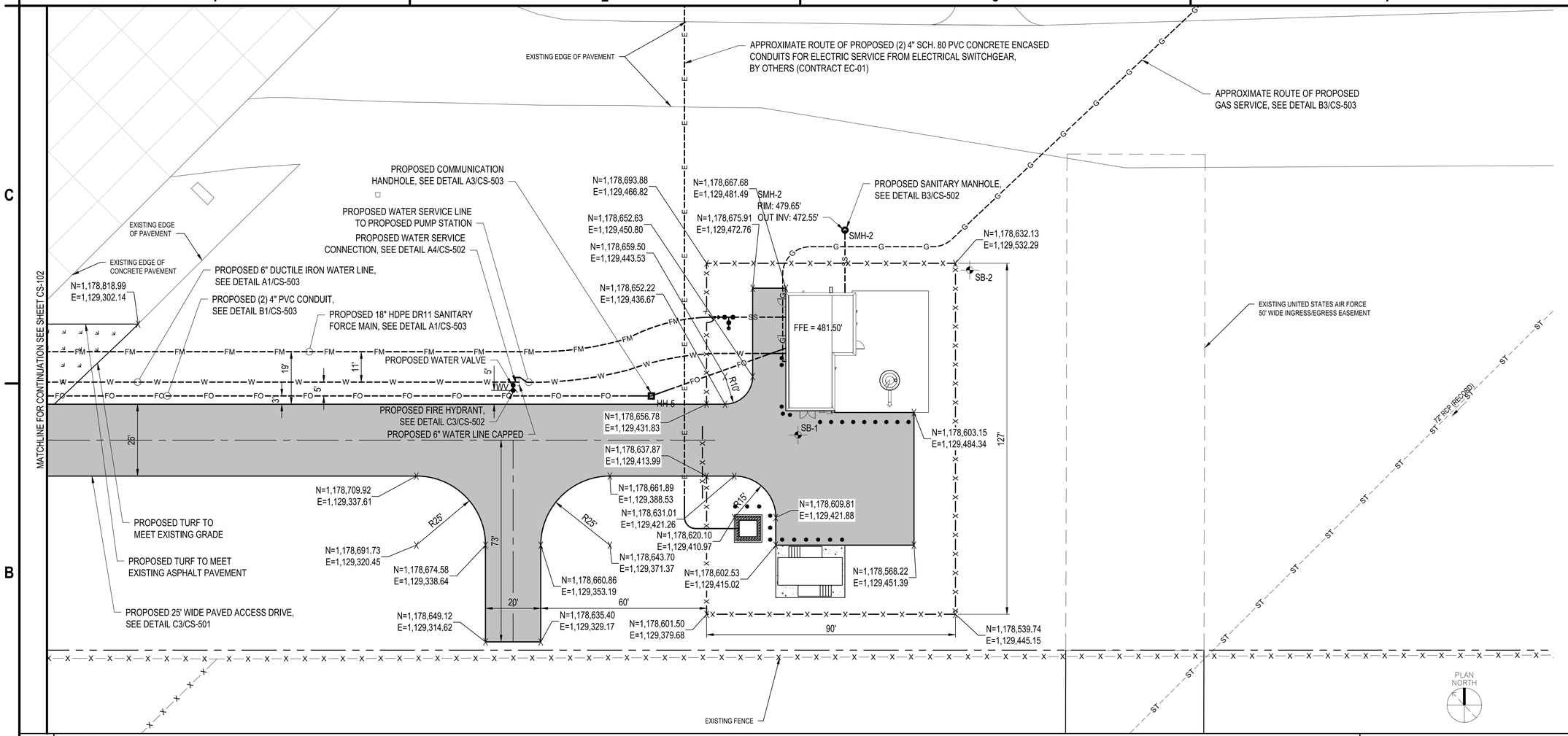
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SITE PLAN

CS-102

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B1 SITE PLAN
SCALE: 1" = 20'

20 0 20 40FT.
20'

A1 LEGEND
NOT TO SCALE

- PROPOSED ASPHALT ACCESS DRIVE
- PROPOSED TURF
- W — PROPOSED WATER SERVICE
- FM — PROPOSED SANITARY FORCEMAIN SERVICE
- E — PROPOSED ELECTRIC SERVICE
- G — PROPOSED GAS SERVICE
- FO — PROPOSED FIBER OPTIC COMMUNICATION SERVICE
- HH-1 — PROPOSED COMMUNICATION HAND HOLE
- SMH-1 — PROPOSED SANITARY MANHOLE
- PROPOSED BOLLARD
- PROPOSED HYDRANT
- WV — PROPOSED WATER VALVE

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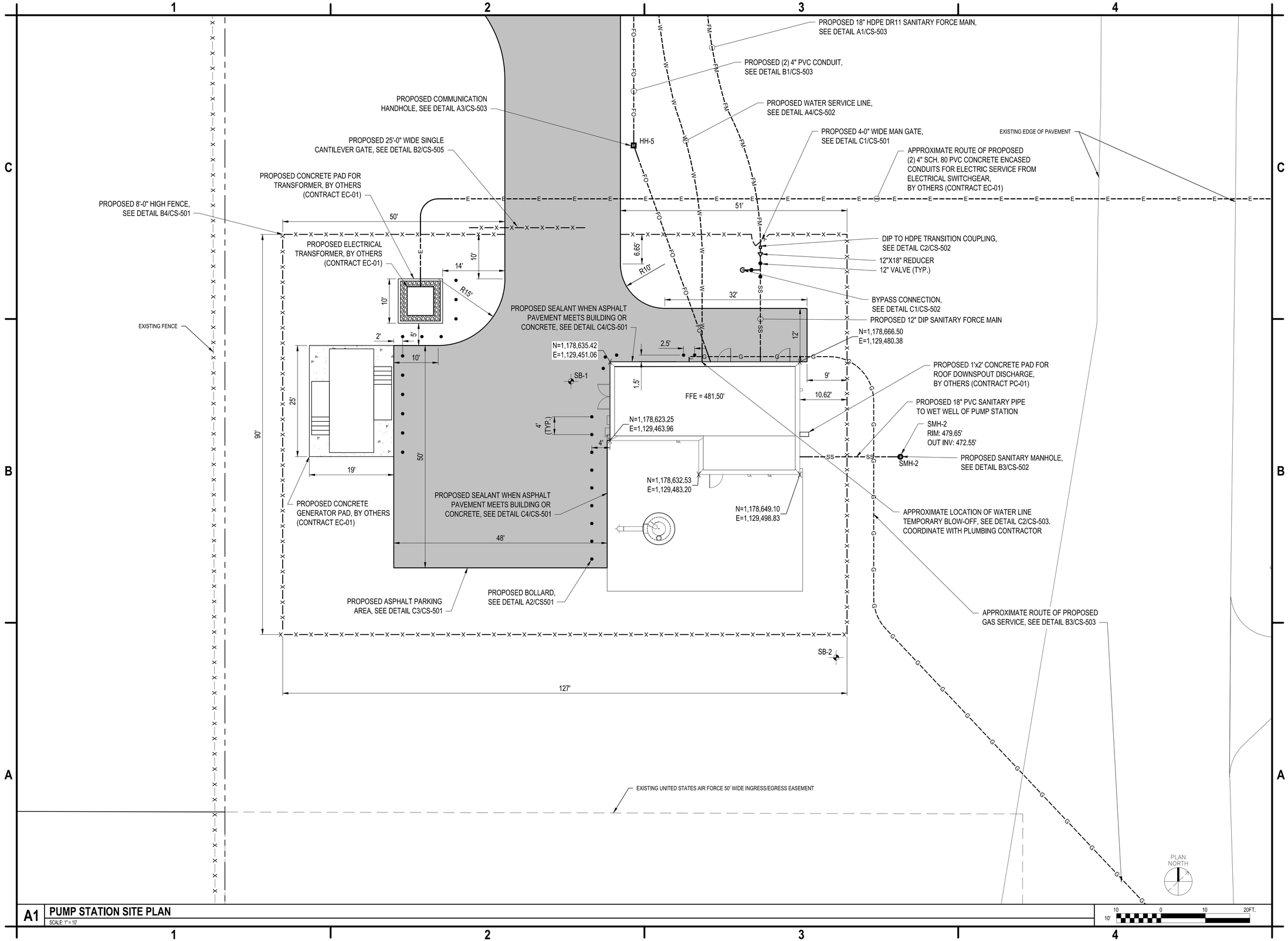
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NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK EDUCATION LAW

SITE PLAN

CS-103

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A1 **PUMP STATION SITE PLAN**
SCALE: 1" = 10'

10 0 10 20FT.
10'

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CERTIFICATE OF AUTHORIZATION #: 0021365
REGISTRATION EXPIRES: 07/31/27

TRIANGLE AREA CIVIL SITE DEVELOPMENT PUMP STATION GRIFFISS INTERNATIONAL AIRPORT ONEIDA COUNTY, ROME, NEW YORK

MARK	DATE	DESCRIPTION

REVISIONS

PROJECT NO:	146.205.011
DATE:	MARCH 6, 2026
DRAWN BY:	B. BUCKINGHAM
DESIGNED BY:	E. PROCOPIO, P.E.
CHECKED BY:	E. N. KENNA, P.E.

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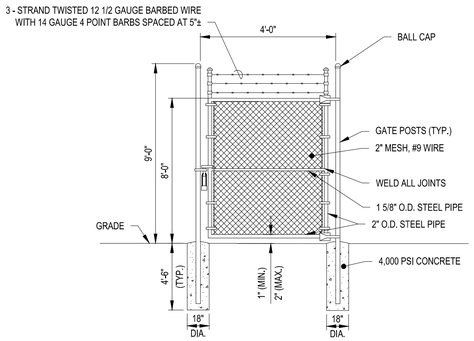
PUMP STATION SITE PLAN

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C1 SINGLE SWING PEDESTRIAN GATE DETAIL

NOT TO SCALE

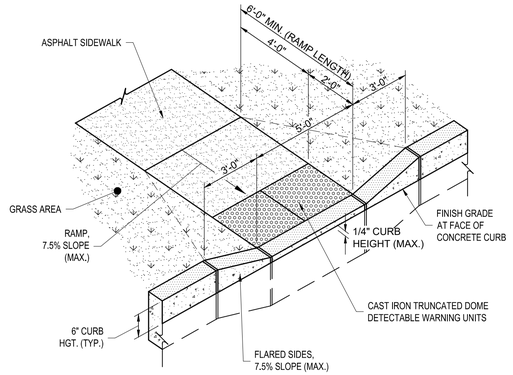


NOTES:

1. MALLEABLE IRON FORK TYPE LATCH WITH DROP BAR AND PROVISION FOR PADLOCK FURNISHED WITH GATE BY CONTRACTOR.
2. THE CONTRACTOR SHALL RESTORE EXISTING GRADE TO ORIGINAL CONDITION. RESTORATION SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO SEPARATE PAYMENT SHALL BE MADE.

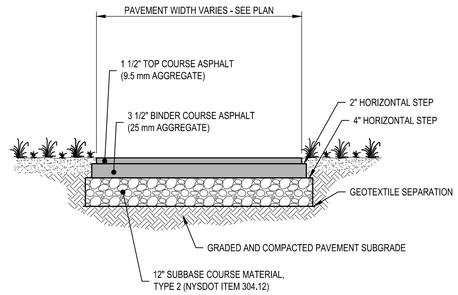
C2 ACCESSIBLE CURB RAMP DETAIL

NOT TO SCALE



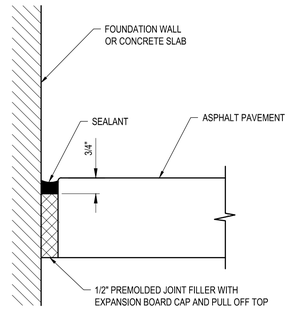
C3 ASPHALT PAVEMENT SECTION

NOT TO SCALE



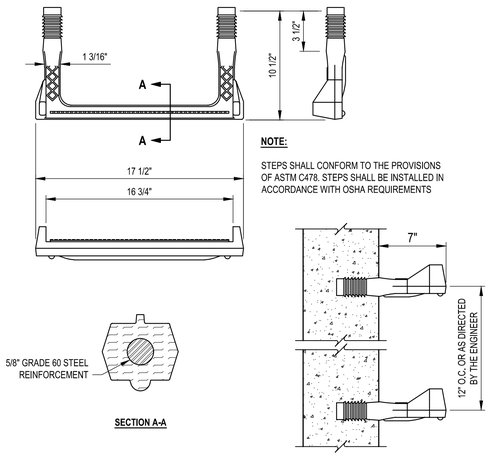
C4 TYPICAL EXPANSION JOINT AT BUILDING DETAIL

NOT TO SCALE



B1 POLYPROPYLENE MANHOLE STEP DETAIL

NOT TO SCALE

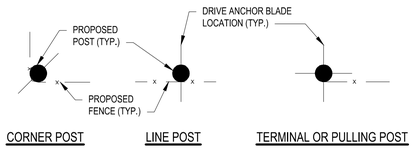


NOTE:

STEPS SHALL CONFORM TO THE PROVISIONS OF ASTM C478. STEPS SHALL BE INSTALLED IN ACCORDANCE WITH OSHA REQUIREMENTS

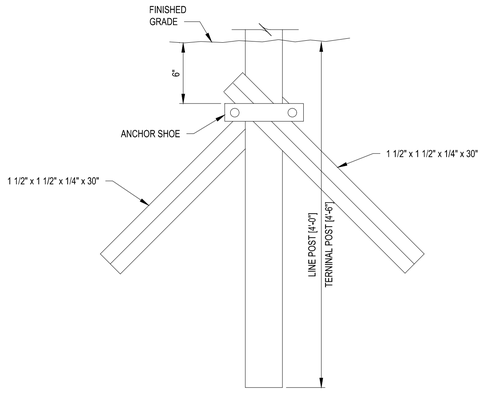
B2 DRIVE ANCHOR SHOE AND BLADE ASSEMBLY DETAIL

NOT TO SCALE



ANCHOR NOTES:

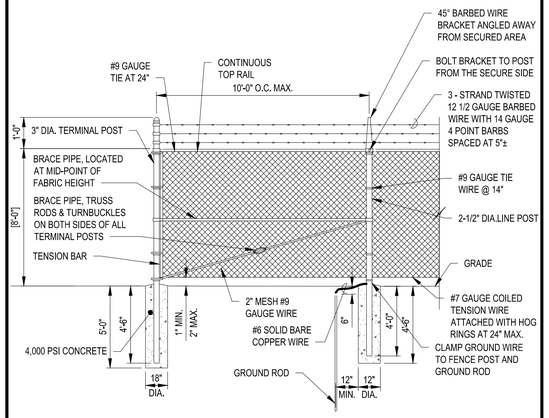
1. USE DRIVE ANCHORS IN WETLAND AREAS.
2. USE CONCRETE FOUNDATION OUTSIDE OF WETLAND AREAS.
3. DRIVE ANCHORS SHALL BE SET AT RIGHT ANGLES TO FENCE LINE.
4. FENCE POSTS AND ANCHORS SHALL BE DRIVEN INTO THE SOIL WITHOUT EXCAVATION.
5. SEE DRIVE ANCHOR LAYOUT FOR THE NUMBER AND ORIENTATION OF DRIVE ANCHORS AT EACH TYPE OF POST.



DRIVE ANCHOR BLADE LAYOUT PLAN VIEW

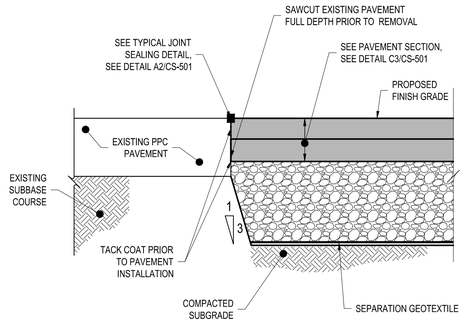
B4 CHAIN-LINK FENCE DETAIL

NOT TO SCALE



A1 KEYING DETAIL

NOT TO SCALE

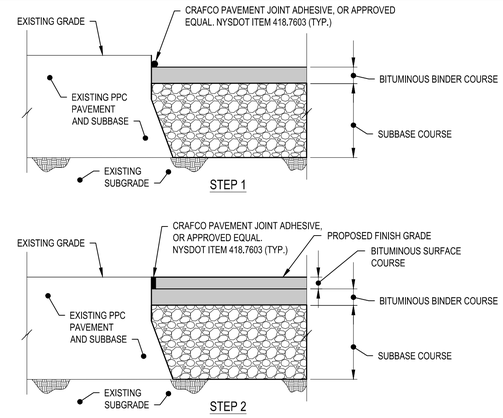


NOTE:

THE CONTRACTOR SHALL NOT BE COMPENSATED FOR ADDITIONAL TRANSVERSE JOINTS RESULTING FROM THE MEANS AND METHODS OF THE CONTRACTOR.

A2 CONSTRUCTION JOINT SEALING DETAIL

NOT TO SCALE

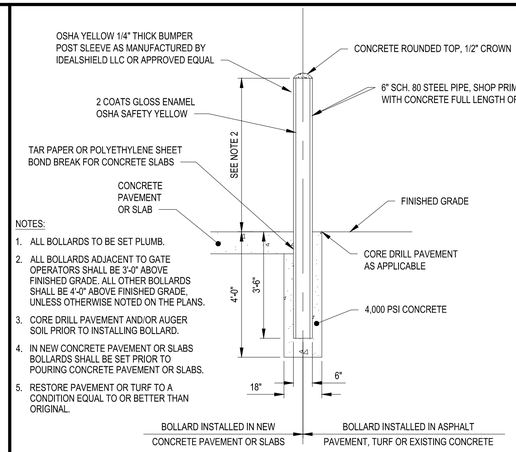


NOTE:

PRIOR TO PLACING PAVEMENT JOINT ADHESIVE, ALL VERTICAL AND HORIZONTAL SURFACES SHALL BE CLEAN, DRY, AND FREE OF DUST AND DEBRIS.

A3 TYPICAL BOLLARD DETAIL

NOT TO SCALE

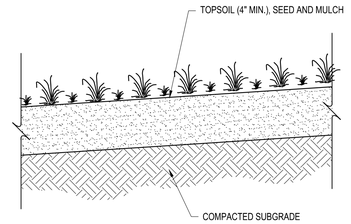


NOTES:

1. ALL BOLLARDS TO BE SET PLUMB.
2. ALL BOLLARDS ADJACENT TO GATE OPERATORS SHALL BE 3'-0" ABOVE FINISHED GRADE. ALL OTHER BOLLARDS SHALL BE 4'-0" ABOVE FINISHED GRADE, UNLESS OTHERWISE NOTED ON THE PLANS.
3. CORE DRILL PAVEMENT AND/OR AUGER SOIL PRIOR TO INSTALLING BOLLARD.
4. IN NEW CONCRETE PAVEMENT OR SLABS BOLLARDS SHALL BE SET PRIOR TO POURING CONCRETE PAVEMENT OR SLABS.
5. RESTORE PAVEMENT OR TURF TO A CONDITION EQUAL TO OR BETTER THAN ORIGINAL.

A4 TYPICAL GRASS RESTORATION DETAIL

NOT TO SCALE



NOTE:

WITH THE EXCEPTION OF PAVED OR GRAVEL AREAS, ALL AREAS DISTURBED BY THE WORK OF THIS PROJECT SHALL BE RESTORED TO GRASS TURF, UNLESS OTHERWISE NOTED ON THE DRAWINGS.

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CERTIFICATE OF AUTHORIZATION #: 0021365

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TRIANGLE AREA CIVIL SITE DEVELOPMENT PUMP STATION GRIFFISS INTERNATIONAL AIRPORT ONEIDA COUNTY, ROME, NEW YORK

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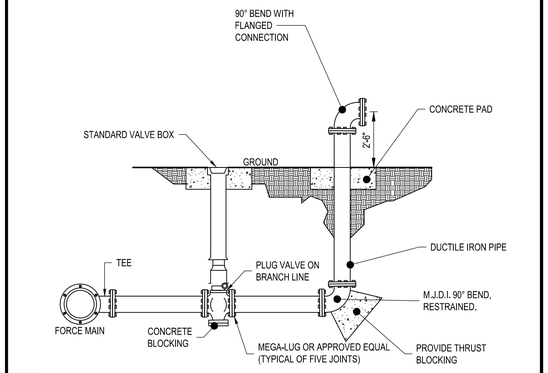
PROJECT NO:	146.205.011
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DETAILS

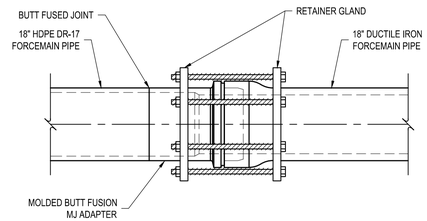
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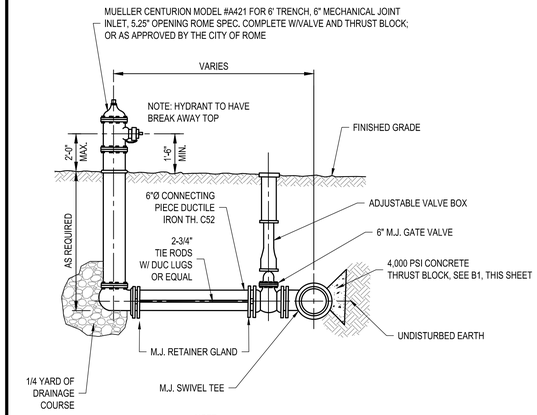


NOTES:
1) ALL PIPING WITHIN THE BYPASS ASSEMBLY SHALL BE CEMENT LINED.
2) ALL BURIED PIPES, VALVES, AND FITTINGS SHALL BE RESTRAINED WITH WEDGE ACTION RETAINER GLANDS AND BLOCKING AS SHOWN.
3) ALL PIPING FOR THE BYPASS CONNECTION SHALL BE 12" UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

C1 BYPASS PUMPING CONNECTION SECTION VIEW
NOT TO SCALE

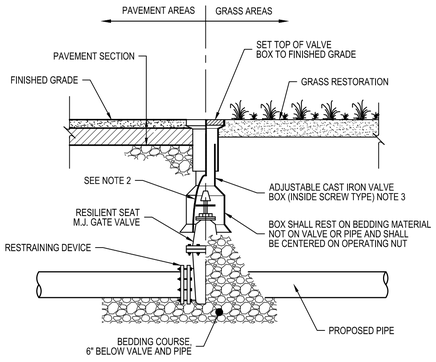


C2 DUCTILE IRON TO POLYETHYLENE TRANSITION DETAIL
NOT TO SCALE



NOTE:
FIRE HYDRANT TO BE PAINTED RED, WHITE AND BLUE PER THE CITY OF ROME.

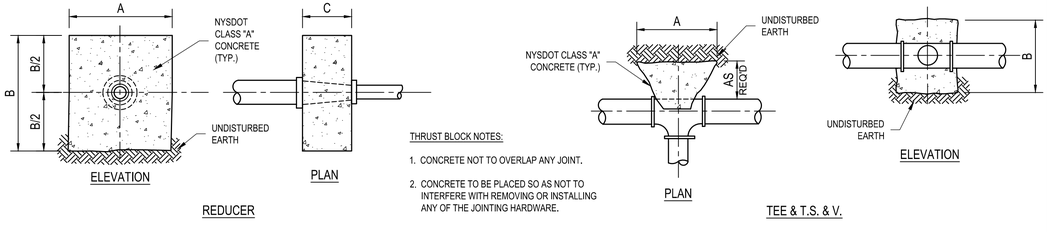
C3 FIRE HYDRANT ASSEMBLY DETAIL
NOT TO SCALE



NOTES:
1. PVC EXTENSIONS SHALL NOT BE USED ON VALVE BOX INSTALLATION.
2. THE ACTUATING NUT FOR VALVES SHALL BE EXTENDED TO A MAXIMUM OF 30-INCHES BELOW FINISHED GRADE.
3. ADJUST TO MID-RANGE TO ALLOW FOR FUTURE BOX ADJUSTMENTS.

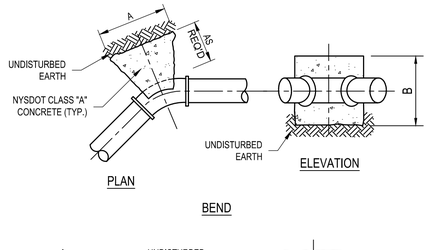
C4 GATE VALVE DETAIL
NOT TO SCALE

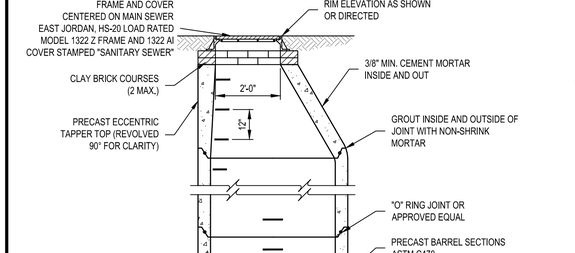
CONCRETE ANCHOR & THRUST BLOCK DIMENSIONS															
SIZE	12"			10"			8"			6"			4"		
DIMENSIONS	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
BEND 90°	4'-3"	4'-3"	----	3'-8"	3'-8"	----	2'-10"	2'-10"	----	2'-3"	2'-3"	----	1'-6"	1'-6"	----
BEND 45°	3'-2"	3'-2"	----	2'-8"	2'-8"	----	2'-3"	2'-3"	----	1'-9"	1'-9"	----	1'-6"	1'-6"	----
BEND 22 1/2°	2'-6"	2'-6"	----	2'-0"	2'-0"	----	1'-8"	1'-8"	----	1'-6"	1'-6"	----	1'-6"	1'-6"	----
BEND 11 1/4°	2'-0"	2'-0"	----	1'-6"	1'-6"	----	1'-2"	1'-2"	----	1'-0"	1'-0"	----	1'-6"	1'-6"	----
D.I. ANCHOR	7'-0"	5'-0"	1'-0"	7'-0"	4'-0"	1'-0"	6'-0"	3'-0"	1'-0"	5'-4"	2'-6"	1'-0"	4'-6"	2'-0"	1'-0"
TS&V, TEE BRANCH SIZE	3'-8"	3'-8"	----	3'-0"	3'-0"	----	2'-6"	2'-6"	----	2'-0"	2'-0"	----	1'-6"	1'-6"	----
REDUCER 12"X	----	----	----	2'-6"	2'-6"	1'-2"	3'-8"	3'-8"	1'-2"	4'-0"	4'-0"	1'-2"	4'-6"	4'-6"	1'-2"
REDUCER 10"X	----	----	----	----	----	----	2'-6"	2'-6"	1'-0"	2'-6"	2'-6"	1'-0"	4'-0"	4'-0"	1'-0"
REDUCER 8"X	----	----	----	----	----	----	----	----	----	2'-0"	2'-0"	0'-11"	2'-8"	2'-8"	0'-11"
REDUCER 6"X	----	----	----	----	----	----	----	----	----	----	----	----	1'-8"	1'-8"	0'-9"



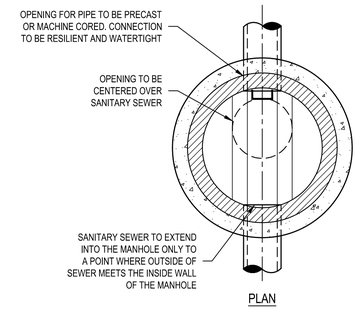
THRUST BLOCK NOTES:
1. CONCRETE NOT TO OVERLAP ANY JOINT.
2. CONCRETE TO BE PLACED SO AS NOT TO INTERFERE WITH REMOVING OR INSTALLING ANY OF THE JOINTING HARDWARE.

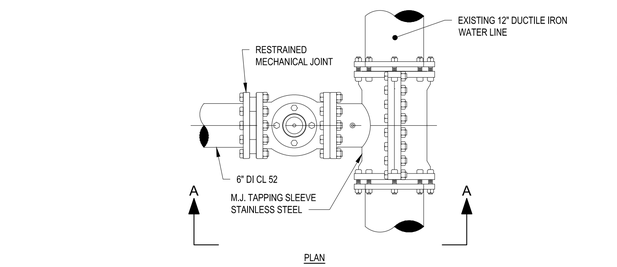
B1 TYPICAL THRUST BLOCK DETAILS
NOT TO SCALE

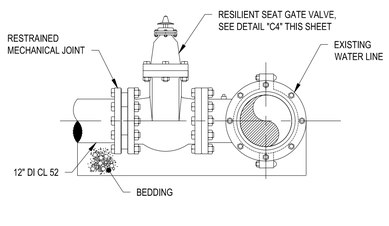




B3 PRECAST CONCRETE SANITARY SEWER MANHOLE
NOT TO SCALE

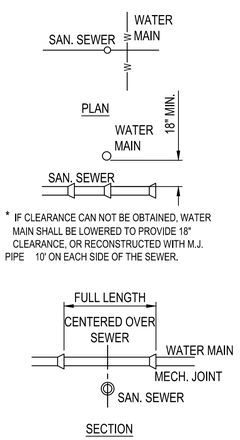






NOTES:
1. CONTRACTOR SHALL PERFORM TEST PIT IN AREA OF WET TAP TO VERIFY MAIN SIZE AND TYPE OF PIPE MATERIAL PRIOR TO ORDERING MATERIALS.
2. TAPPING SLEEVE/SADDLE SHALL BE STAINLESS STEEL.

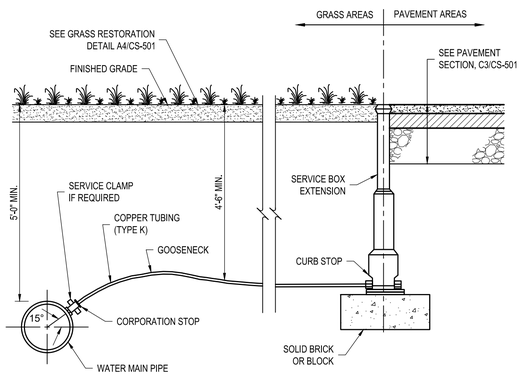
A1 WATER PIPE TAPPING SLEEVE AND VALVE DETAIL
NOT TO SCALE



* IF CLEARANCE CAN NOT BE OBTAINED, WATER MAIN SHALL BE LOWERED TO PROVIDE 18" CLEARANCE, OR RECONSTRUCTED WITH M.J. PIPE 10' ON EACH SIDE OF THE SEWER.

NOTE:
WHEREVER REQUIRED VERTICAL CLEARANCE CAN NOT BE OBTAINED, THE SANITARY SEWER SHALL BE ENCASED IN 4,000 PSI CONCRETE FOR A DISTANCE OF 10' EITHER SIDE OF THE INTERSECTION WITH THE WATER MAIN AS INSTRUCTED BY THE ENGINEER. ALSO REQUIRED IS A 10' MINIMUM HORIZONTAL SEPARATION BETWEEN STORM SEWERS & WATER MAINS.

A3 SEWER MAIN & WATER MAIN SEPARATION DETAIL
NOT TO SCALE



A4 TYPICAL WATER SERVICE CONNECTION DETAIL
NOT TO SCALE

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REGISTRATION EXPIRES: 07/31/27



TRIANGLE AREA CIVIL SITE DEVELOPMENT PUMP STATION GRIFFISS INTERNATIONAL AIRPORT ONEIDA COUNTY, ROME, NEW YORK

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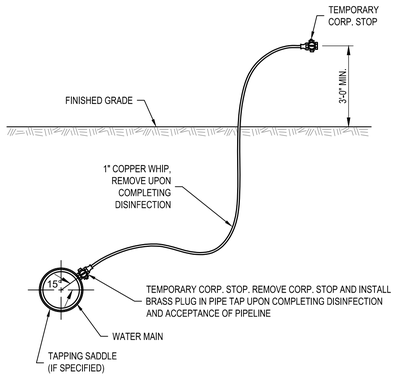
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DETAILS

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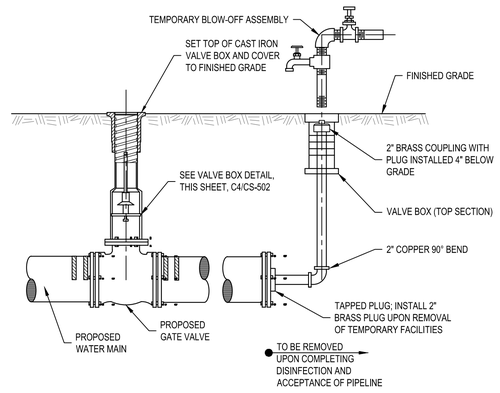
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NOTE: AFTER DISINFECTION TESTING AND SAMPLING IS COMPLETED TO THE SATISFACTION OF THE OWNER AND THE DEPARTMENT OF HEALTH, THE SAMPLING ASSEMBLY SHALL BE REMOVED AS NOTED, WITH THE REMAINDER OF THE TRENCH BACKFILLED WITH BEDDING COURSE (A4 AGGREGATE).

C1 SAMPLING & DISINFECTION TAP DETAIL

NOT TO SCALE



C2 TEMPORARY BLOW-OFF DETAIL

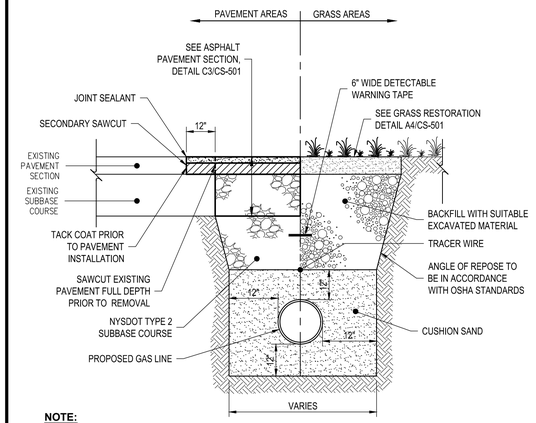
NOT TO SCALE

NOTES:

1. DETECTABLE WARNING TAPE SHALL BE INSTALLED IN EACH TRENCH PRIOR TO PLACING TOPSOIL.
2. PROVIDE 3" SPACING BETWEEN MULTIPLE CONDUITS IN A CONDUIT TRENCH HORIZONTALLY AND VERTICALLY STACKED.
3. PROVIDE 12" SEPARATION BETWEEN POWER AND COMMUNICATIONS CONDUITS. SEE PLANS FOR NUMBER OF CONDUITS IN TRENCH.
4. CONTRACTOR SHALL RESTORE TRENCHED AREAS TO A CONDITION EQUAL TO OR BETTER THAN ORIGINAL SURFACE.
5. THE TRENCH WIDTH SHALL BE WIDE ENOUGH TO ACCOMMODATE THE CONTRACTOR'S PROPOSED COMPACTION EQUIPMENT AND ACHIEVE SPECIFIED COMPACTION REQUIREMENTS.
6. EXCAVATIONS, TRENCHING AND SHORING SHALL BE IN ACCORDANCE WITH OSHA REQUIREMENTS.
7. EXCAVATIONS SHALL NOT UNDERMINE EXISTING PAVEMENTS, STRUCTURES OR UTILITIES.
8. ALL CONDUIT MINIMUM DEPTH REQUIREMENTS SHALL BE BASED ON PROPOSED FINISHED GRADE. IF SITE EXCAVATION OCCURS OVER CONDUITS AFTER INSTALLATION, THE CONDUITS SHALL BE INITIALLY SET LOWER TO ACCOMMODATE GRADE CHANGES.
9. THIS DETAIL IS TO BE USED IN TURFED AREAS, GRAVEL DRIVEWAYS, AND UNDER SIDEWALKS UNLESS OTHERWISE SHOWN.
10. PROVIDE NUMBER OF CONDUITS AS PER PLANS.
11. REFER TO CIVIL DRAWINGS FOR PAVEMENT CROSSING DETAIL.

B1 CONDUIT TRENCHING AND RESTORATION DETAIL

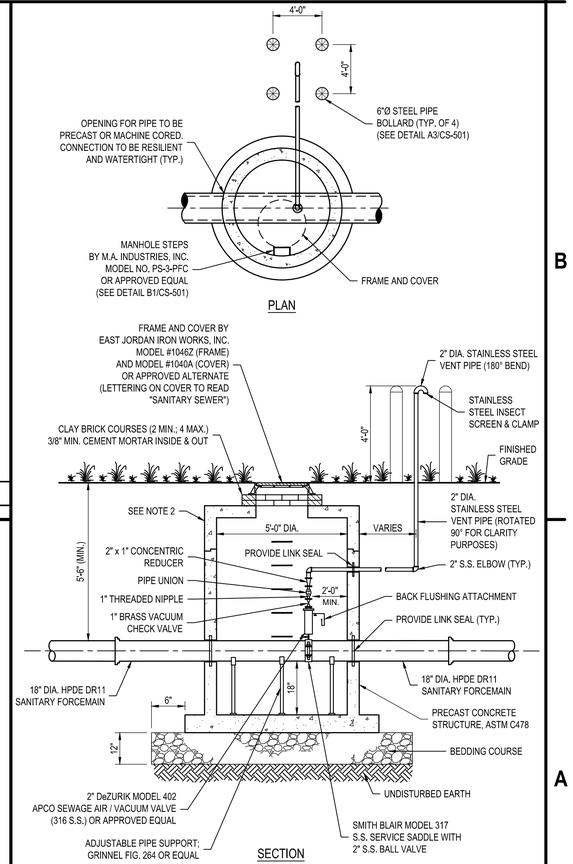
NOT TO SCALE



NOTE:
GAS MAIN TO BE 30" DEEP (MAX.)

B3 GAS PIPE TRENCH AND RESTORATION DETAIL

NOT TO SCALE

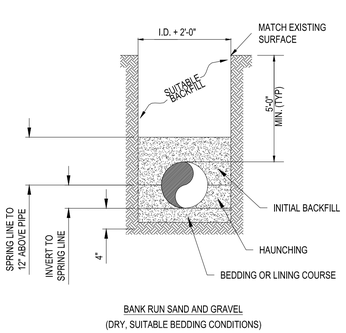


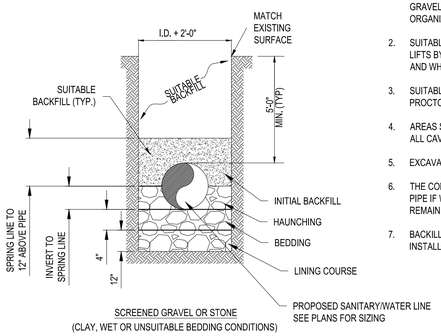
NOTES:

1. VENT PIPE ASSEMBLY ROTATED 90° HORIZONTALLY FOR CLARITY.
2. AN ASPHALTIC COATING SHALL BE APPLIED TO THE COMPLETE EXTERIOR OF THE CONCRETE STRUCTURE.

A4 AIR / VACUUM RELEASE MANHOLE DETAIL

NOT TO SCALE



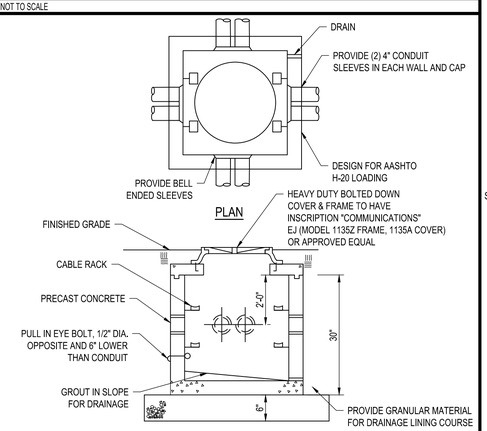


NOTES:

1. SUITABLE BACKFILL SHALL CONSIST OF BANK RUN SAND AND GRAVEL OR SUITABLE EXCAVATED MATERIAL FREE FROM ORGANIC OR DELETERIOUS MATERIAL.
2. SUITABLE BACKFILL TO BE THOROUGHLY COMPACTED IN 6" LIFTS BY MECHANICAL TAMPING (OR BY HAND TAMPING WHEN AND WHERE DIRECTED).
3. SUITABLE BACKFILL SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY OR AS DIRECTED IN THE SPECIFICATION.
4. AREAS SURROUNDING PIPE SHALL BE HAND TAMPED TO FILL ALL CAVITIES.
5. EXCAVATION SHALL COMPLY WITH OSHA REQUIREMENTS.
6. THE CONTRACTOR MUST DEWATER PRIOR TO PLACING THE PIPE IF WET TRENCH CONDITIONS ARE FOUND. THE PIPE MUST REMAIN IN DRY CONDITIONS UNTIL BACKFILLED.
7. BACKILLING SHALL BE INCLUDED IN THE COST OF PIPE INSTALLATION.

A1 SANITARY AND WATER PIPE TRENCHING DETAIL

NOT TO SCALE



NOTES:

1. HAND HOLE AND COVER TO BE DESIGNED TO H-20 LOADING UNLESS OTHERWISE NOTED.
2. HAND HOLE SHALL BE 4'-0" X 4'-0".

A3 HAND HOLE DETAIL (COMMUNICATIONS)

NOT TO SCALE

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CERTIFICATE OF AUTHORIZATION #: 0021365



REGISTRATION EXPIRES: 07/31/27

TRIANGLE AREA CIVIL SITE DEVELOPMENT PUMP STATION GRIFFISS INTERNATIONAL AIRPORT ONEIDA COUNTY, ROME, NEW YORK

MARK	DATE	DESCRIPTION

REVISIONS

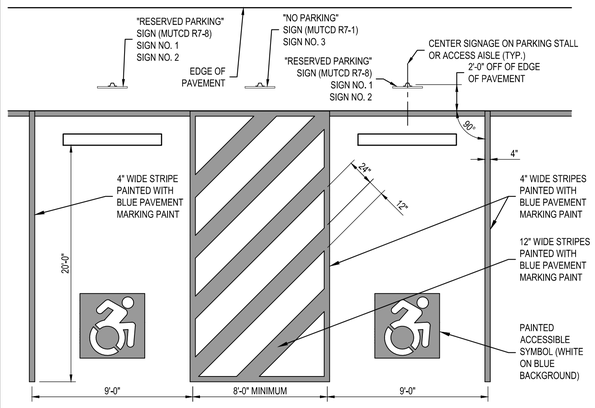
PROJECT NO:	146.205.011
DATE:	MARCH 6, 2026
DRAWN BY:	B. BUCKINGHAM
DESIGNED BY:	E. PROCOPIO, P.E.
CHECKED BY:	E. N. KENNA, P.E.

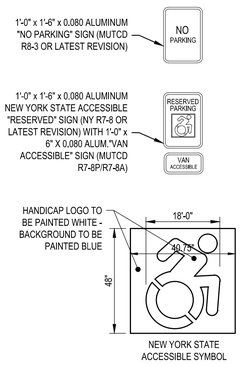
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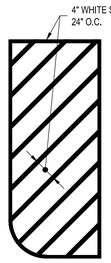


NOTES:
1. BOLT SIGNS TO STEEL TUBE WITH 3/8" CADMIUM PLATED BOLTS, NUTS & WASHERS.
2. SIGN LOCATION VARIES. SEE SITE PLAN.

NEW YORK STATE ACCESSIBLE SYMBOL

C1 ADA PARKING STALL & ACCESS AISLE DETAIL

NOT TO SCALE

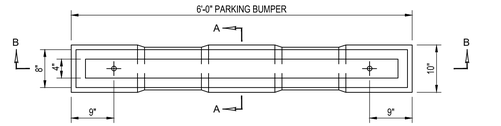


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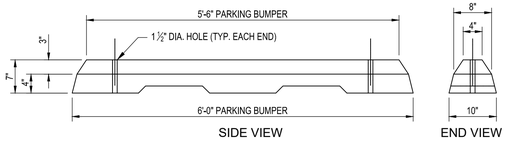
ALL PARKING LOT ISLAND STRIPING ADJACENT TO A HANDICAP PARKING SPACE TO CONTAIN BLUE STRIPES.

B1 PARKING LOT STRIPING DETAIL

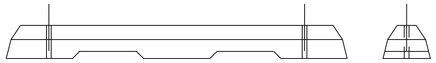
NOT TO SCALE



PLAN VIEW



SIDE VIEW END VIEW

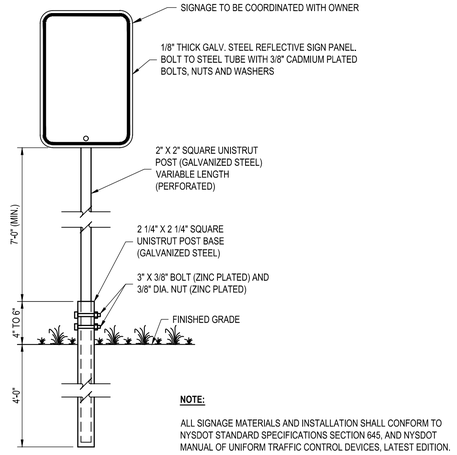


SECTION A-A SECTION B-B

B2 PRECAST CONCRETE WHEEL STOP DETAIL

NOT TO SCALE

SITE SIGN TABLE		
SIGN NO.	DESCRIPTION	M.U.T.C.D. NO./SIZE
1	RESERVED PARKING	R7-8 (12"x18")
2	RESERVED PARKING / VAN ACCESSIBLE	R7-8 (12"x18") R7-8P/R7-8A (12"x8")
3	NO PARKING	R8-3 (12"x18")



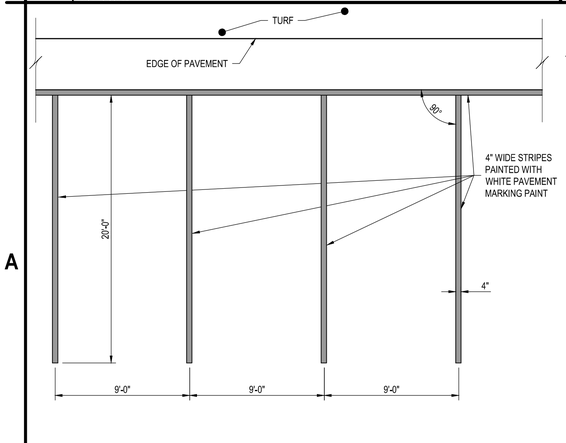
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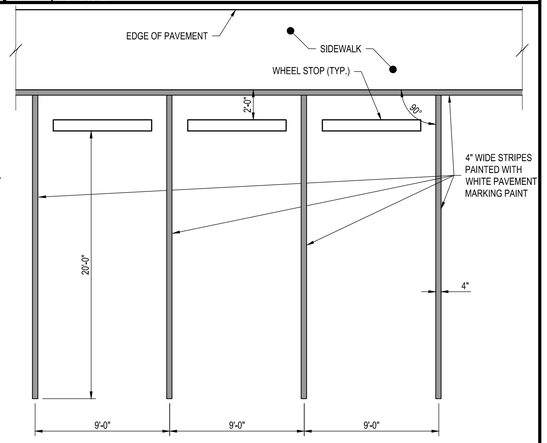
ALL SIGNAGE MATERIALS AND INSTALLATION SHALL CONFORM TO NYSDOT STANDARD SPECIFICATIONS SECTION 645, AND NYSDOT MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.

TYPE "A"

A3 SITE SIGNAGE (TYPE "A") DETAIL & TABLE

NOT TO SCALE





A1 STANDARD PARKING STALL STRIPING DETAIL

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REVISIONS		

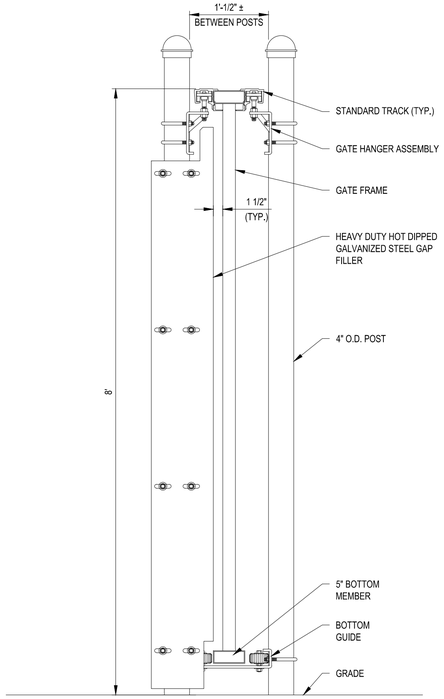
PROJECT NO:	146.205.011
DATE:	MARCH 6, 2026
DRAWN BY:	B. BUCKINGHAM
DESIGNED BY:	E. PROCOPIO, P.E.
CHECKED BY:	E. N. KENNA, P.E.

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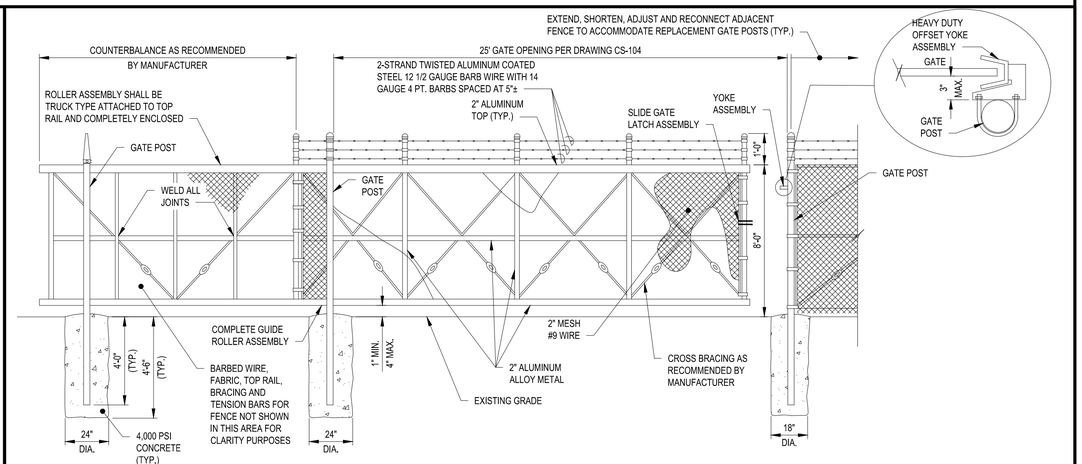


NOTES:

1. SECTIONS ARE VIEWED FROM THE CENTER OF THE CLEAR OPENING.

A1 HEAVY DUTY GAP FILLER DETAIL - BACKSPACE SIDE

NOT TO SCALE



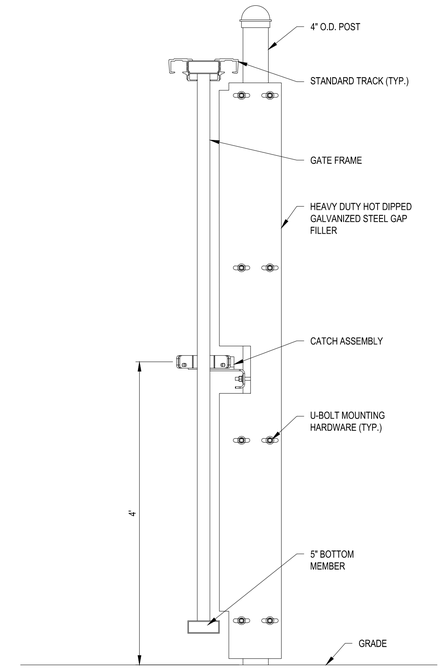
B2 SINGLE CANTILEVER GATE DETAIL

NOT TO SCALE

1. THE CONTRACTOR SHALL RESTORE EXISTING GRADE (ASPHALT PAVEMENT) TO ORIGINAL CONDITION AFTER INSTALLING AND REMOVING FENCE AND GATES. RESTORATION SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO SEPARATE PAYMENT SHALL BE MADE.
2. SUPPORT POSTS FOR GATES SHALL BE OF THE SIZES AND DEPTHS SHOWN OR AS RECOMMENDED BY THE MANUFACTURER, WHICHEVER IS GREATER.
3. ALL GATES SHALL BE INSTALLED ON THE ENCLOSED SIDE OF THE FENCE (AIRSIDE) UNLESS OTHERWISE NOTED.
4. GATE SHALL BE STRUCTURAL DUTY, RATED FOR SINGLE 25'-0" SPAN.
5. THE MAXIMUM GAP, IN ANY DIRECTION, FOR BOTH GATES AND FENCE SHALL BE 2-INCHES.
6. STRUCTURAL CANTILEVER GATES ARE REQUIRED WITH DUAL POSTS AND HANGER ASSEMBLIES.
7. THE PAVEMENT MAY BE CUT OUT IN A RECTANGLE SHAPE TO ACCOMMODATE THE DUAL GATE POSTS IN CLOSE PROXIMITY TO EACH OTHER. AUGER POST HOLES AND PLATE CONCRETE TO SECURE BOTH POSTS AND SAWCUT VOID FLUSH TO THE SURFACE. THIS APPROACH WILL TIE THE TWO SUPPORT POSTS TOGETHER AS A UNIT.
8. STRUCTURAL GATES TO BE TYMETAL, OR APPROVED EQUAL.

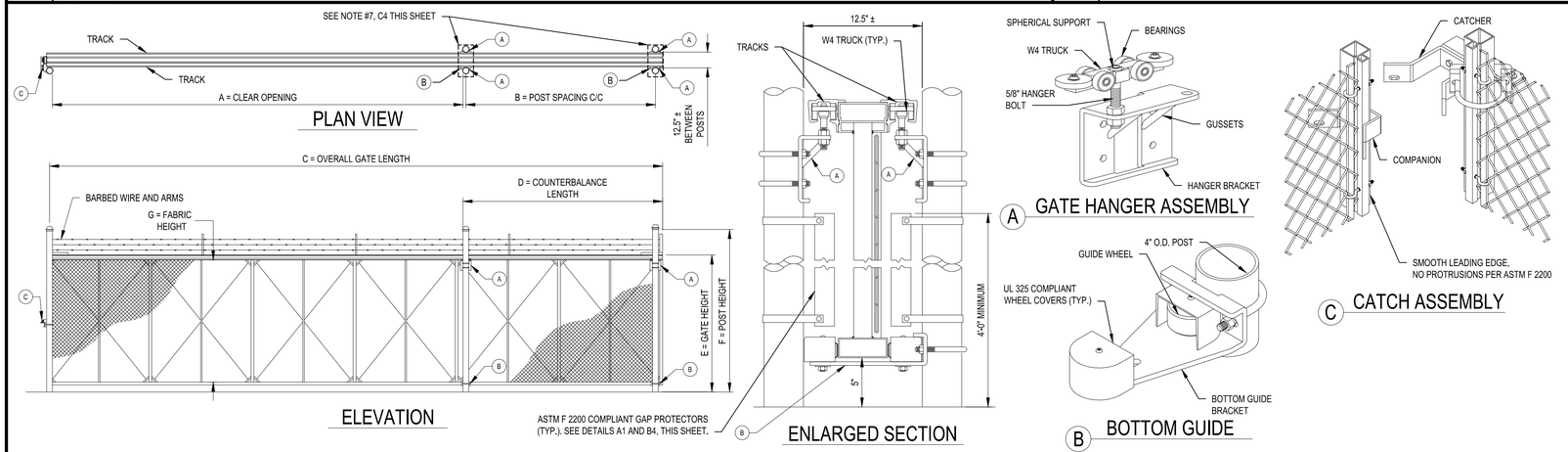
C4 GATE NOTES

NOT TO SCALE



B4 HEAVY DUTY GAP FILLER DETAIL - CATCH SIDE

NOT TO SCALE



A2 CANTILEVER GATE ASSEMBLY DETAILS

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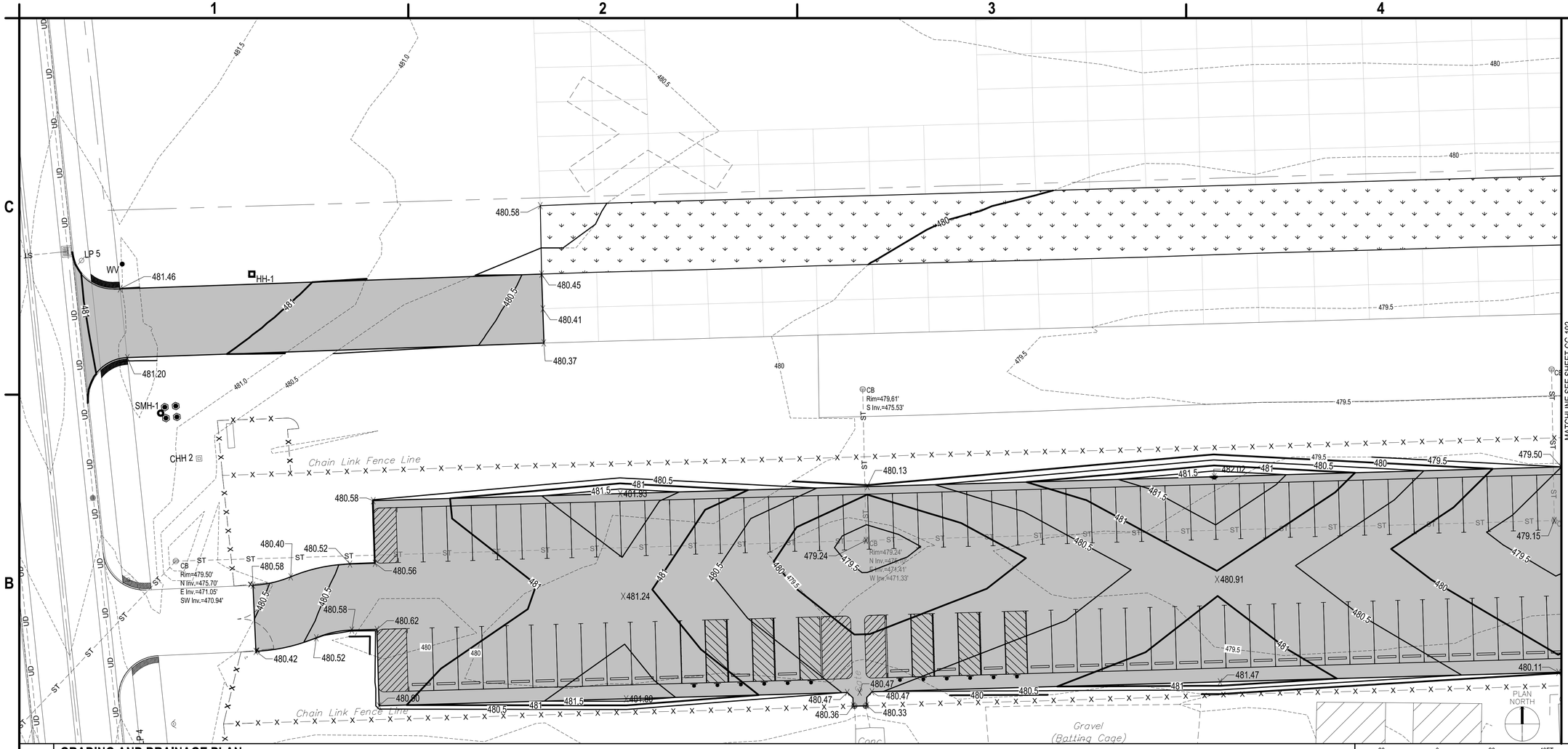
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GATE DETAILS

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B1 GRADING AND DRAINAGE PLAN

SCALE: 1" = 20'

PROPOSED ASPHALT ACCESS DRIVE

PROPOSED TURF

480 EXISTING CONTOUR

480 PROPOSED CONTOUR

A1 LEGEND

SCALE: NOT TO SCALE

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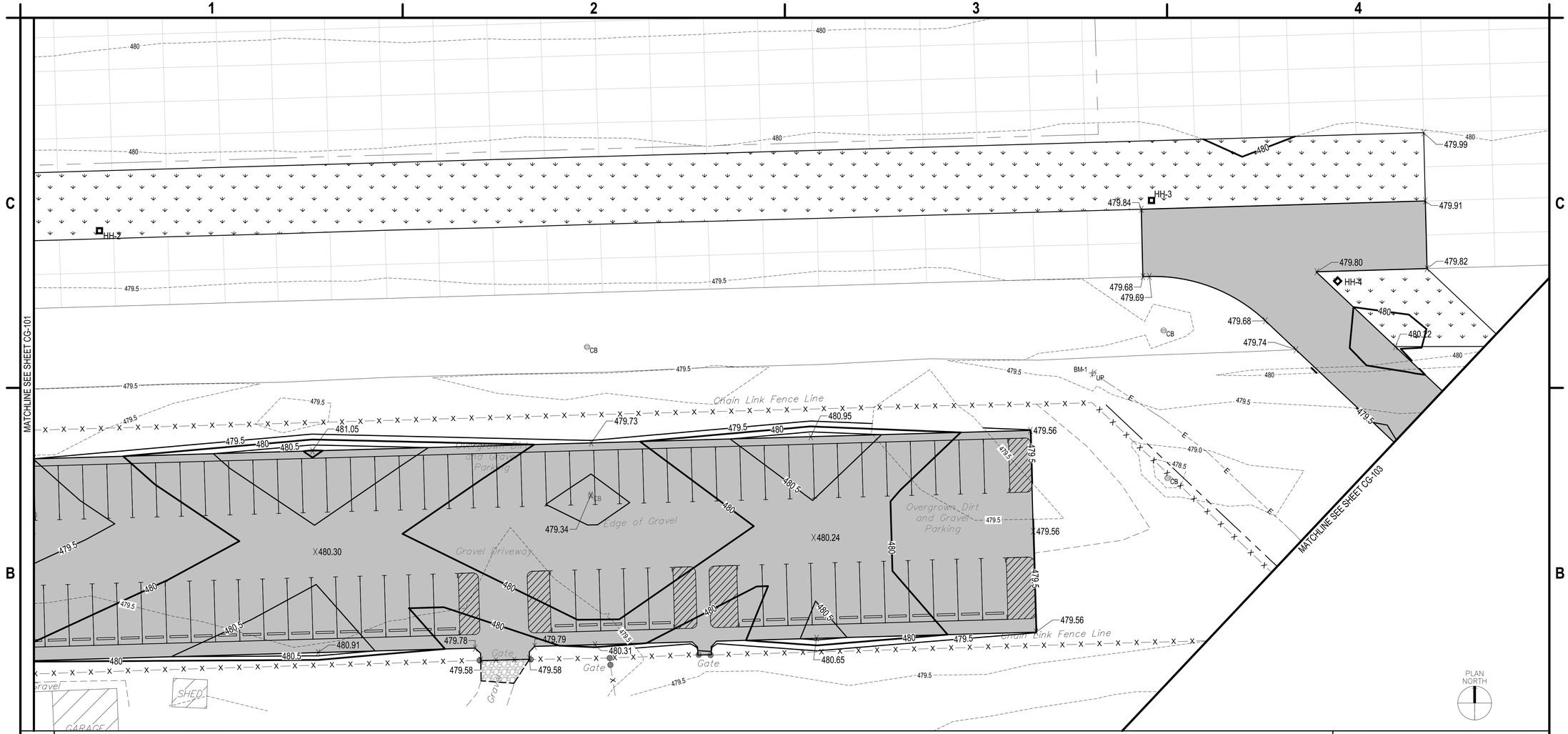
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GRADING AND DRAINAGE PLAN

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B1 GRADING AND DRAINAGE PLAN

SCALE: 1" = 20'

PROPOSED ASPHALT ACCESS DRIVE

PROPOSED TURF

480 EXISTING CONTOUR

480 PROPOSED CONTOUR

A1 LEGEND

SCALE: NOT TO SCALE

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ONEIDA COUNTY, ROME, NEW YORK

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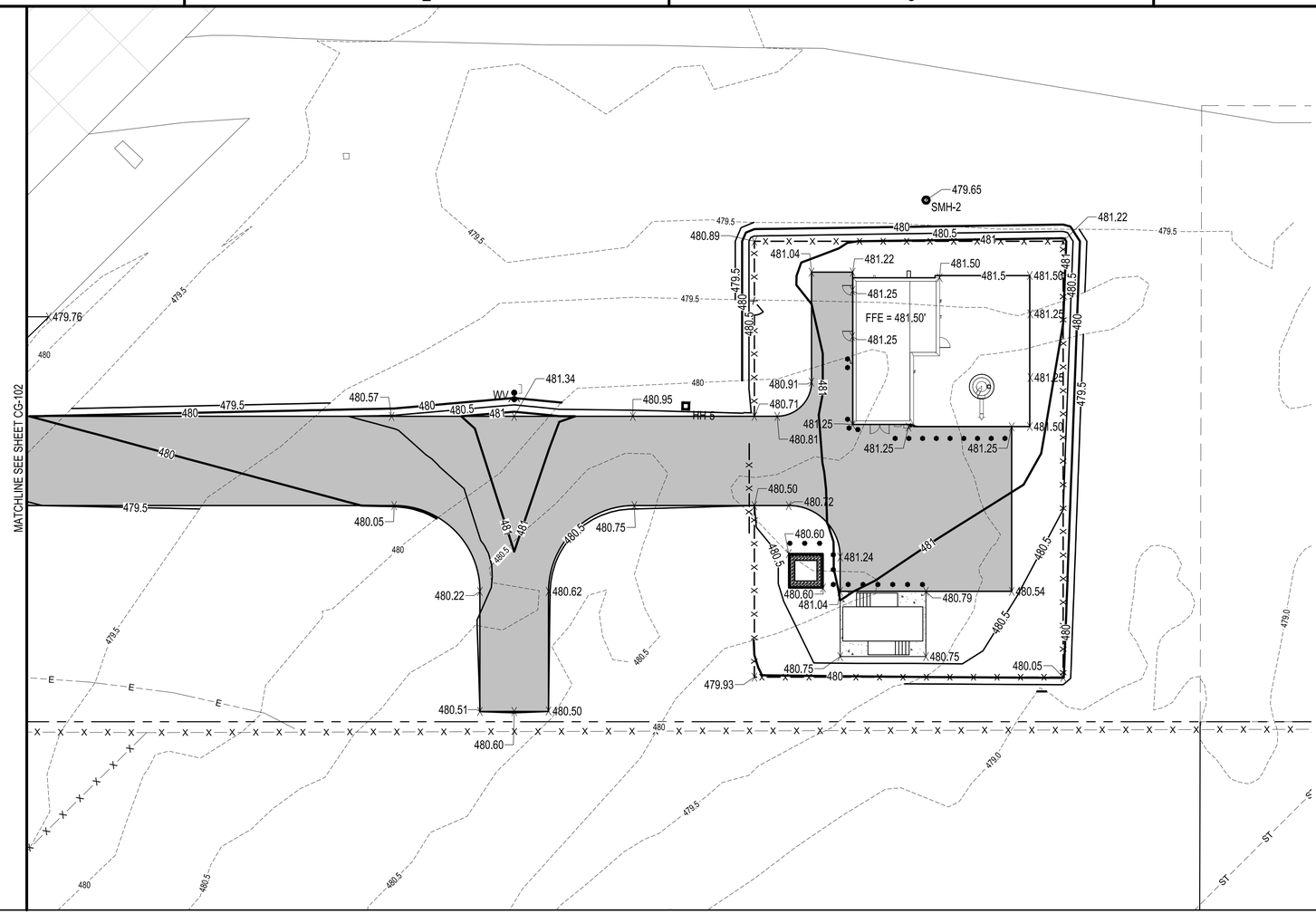
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GRADING AND DRAINAGE PLAN

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B1 GRADING AND DRAINAGE PLAN

SCALE: 1" = 20'

20 0 20 40FT.
20'

PROPOSED ASPHALT ACCESS DRIVE

PROPOSED TURF

480 EXISTING CONTOUR

480 PROPOSED CONTOUR

A1 LEGEND

SCALE: NOT TO SCALE

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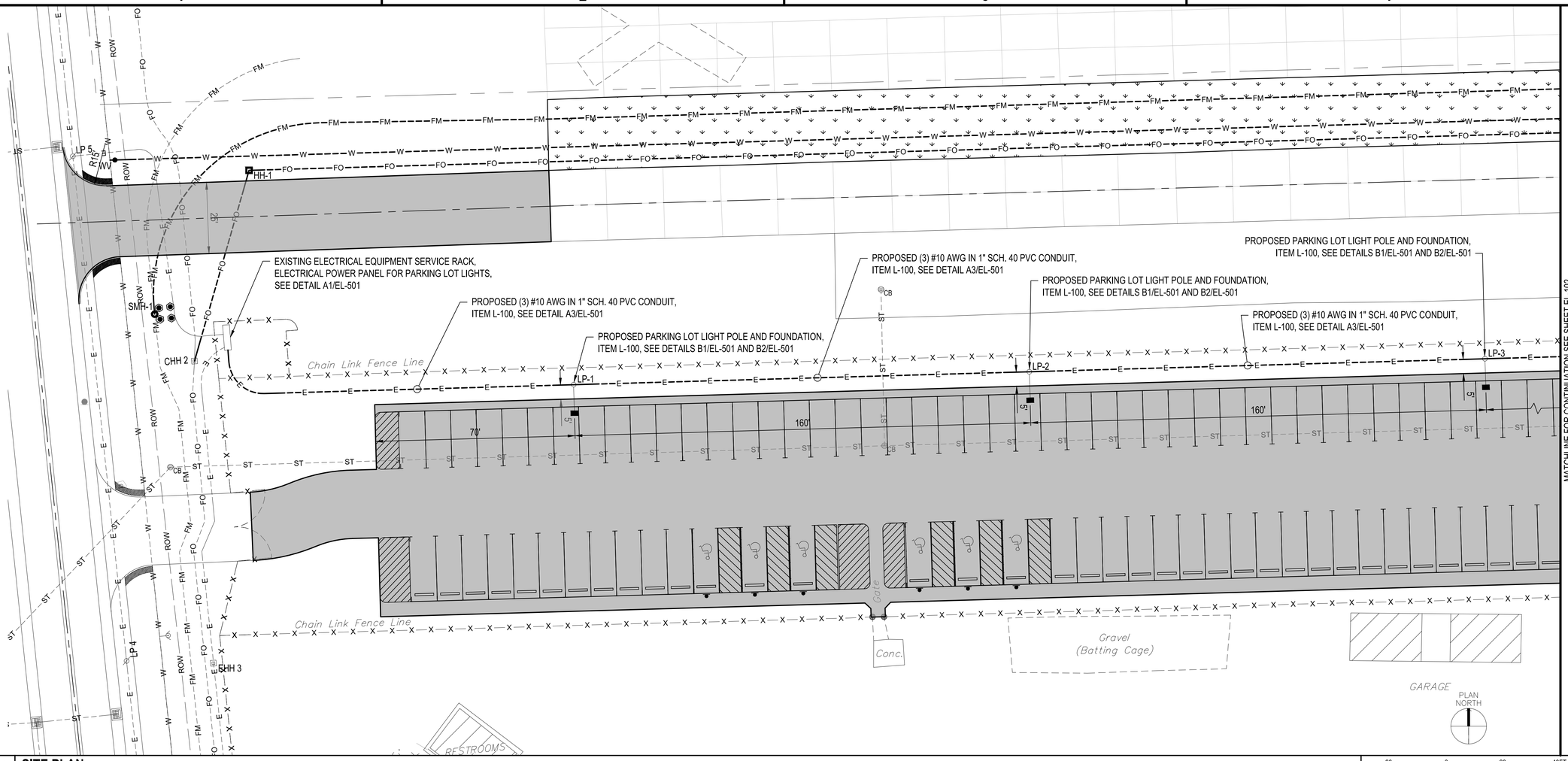
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GRADING AND DRAINAGE PLAN

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B1 SITE PLAN

SCALE: 1" = 20'

20' 0 20 40FT.

	PROPOSED ASPHALT ACCESS DRIVE
	PROPOSED TURF
——W——	PROPOSED WATER SERVICE
——FM——	PROPOSED SANITARY FORCEMAIN SERVICE
——E——	PROPOSED UNDERGROUND ELECTRIC LINE
——G——	PROPOSED GAS SERVICE
——FO——	PROPOSED FIBER OPTIC COMMUNICATION SERVICE
HH-1	PROPOSED COMMUNICATION HAND HOLE
SMH-1	PROPOSED SANITARY MANHOLE
	PROPOSED BOLLARD
	PROPOSED SIGN
LP-1	PROPOSED PARKING LOT LIGHT POLE AND LUMINAIRE

A1 LEGEND

NOT TO SCALE

AFG	ABOVE FINISHED GRADE
BFG	BELOW FINISHED GRADE
DP	DISTRIBUTION PANEL
GND	GROUND
JB	JUNCTION BOX
KA	KILO AMP
KV	KILO VOLT
KVA	KILO VOLT AMP
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
PB	PULL BOX
REM	REMARKS
RGS	RIGID GALVANIZED STEEL CONDUIT
WP	WATER PROOF

A2 ABBREVIATIONS

NOT TO SCALE

1. ALL ELECTRICAL WORK SHALL CONFORM TO ALL STATE, LOCAL, AND NATIONAL ELECTRICAL CODES.
2. ELECTRICAL CHARACTERISTICS SHALL BE VERIFIED WITH EQUIPMENT MANUFACTURER.
3. ITEMS OF SPECIFIC MANUFACTURERS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS AND/OR MANUFACTURER'S REPRESENTATIVE'S DIRECTIONS.
4. THE CONTRACTOR SHALL FIELD VERIFY ALL LOCATIONS AND DIMENSIONS SHOWN ON DRAWINGS.
5. ALL CONDUIT AND WIRING SCHEDULES SHALL BE VERIFIED BEFORE INSTALLATION.
6. THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL EQUIPMENT WITH OTHER CONTRACTORS.
7. ALL AREAS DISTURBED BY WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN ORIGINAL AS DETERMINED BY THE ENGINEER.
8. THE CONTRACTOR SHALL PROVIDE RACEWAYS, WIRING, AND CONNECTIONS FOR ALL CONTROL CIRCUITS AND INTERLOCK.
9. ALL ELECTRICAL CONDUIT AND CONDUCTORS DISCONNECTED AND NOT TO BE REUSED SHALL BE REMOVED.
10. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS BEFORE STARTING WORK. IF ONLY A PORTION OF AN EXISTING CIRCUIT IS BEING REMOVED FOR DEMOLITION, CONTINUITY SHALL BE MAINTAINED TO THE REST OF THE REMAINING CIRCUIT.
11. ALL BRANCH CIRCUIT CONDUCTORS SHALL BE #12AWG MINIMUM UNLESS OTHERWISE SHOWN.
12. ALL BRANCH CIRCUITS SHALL CONSIST OF 2 CONDUCTORS PLUS GROUND, UNLESS OTHERWISE SHOWN.

A3 SHEET NOTES

NOT TO SCALE

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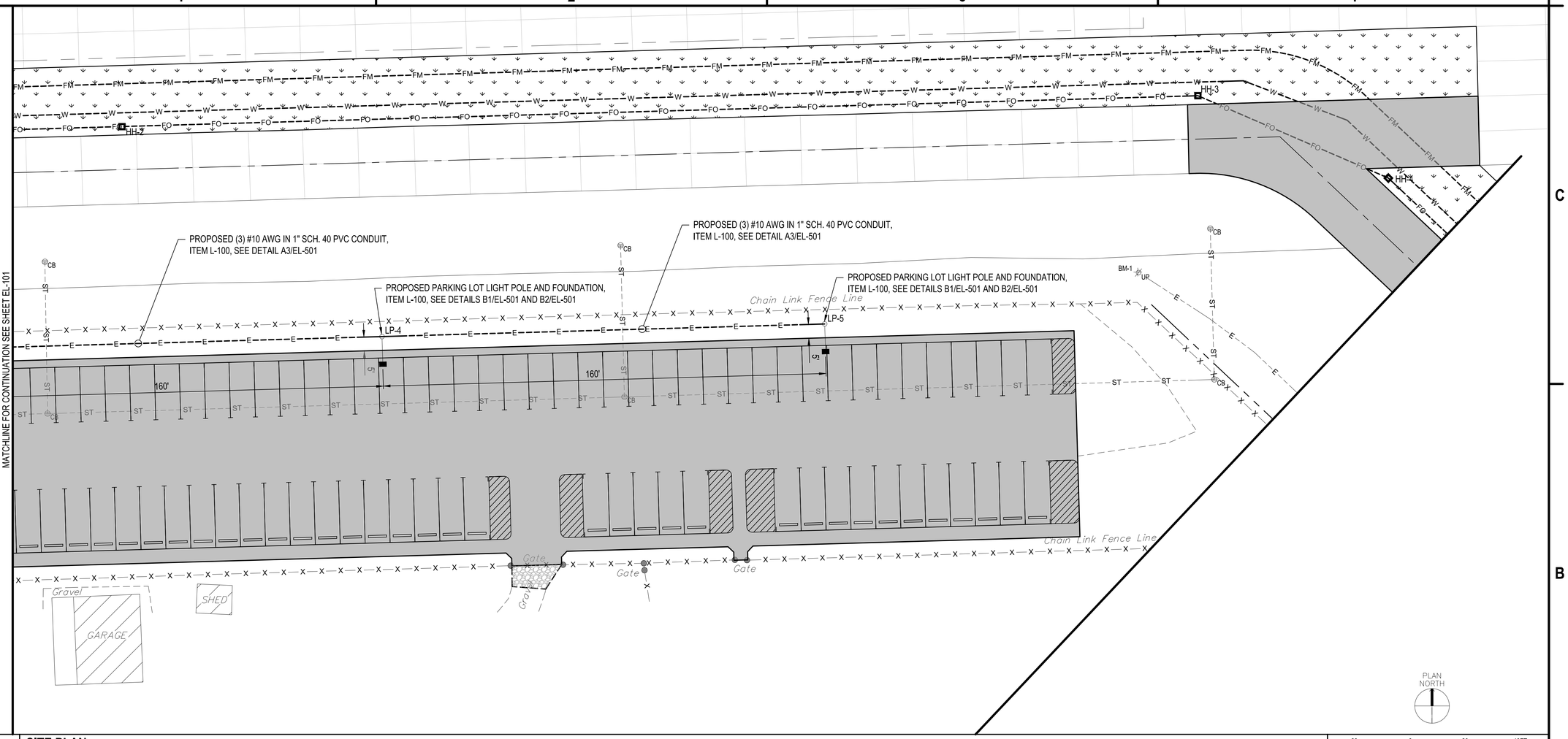
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ELECTRICAL SITE PLAN

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MATCHLINE FOR CONTINUATION SEE SHEET EL-101

B1 SITE PLAN

SCALE: 1" = 20'

A1 LEGEND

NOT TO SCALE

- PROPOSED ASPHALT ACCESS DRIVE
- PROPOSED TURF
- W — PROPOSED WATER SERVICE
- FM — PROPOSED SANITARY FORCEMAIN SERVICE
- E — PROPOSED UNDERGROUND ELECTRIC LINE
- G — PROPOSED GAS SERVICE
- FO — PROPOSED FIBER OPTIC COMMUNICATION SERVICE
- HH-1 — PROPOSED COMMUNICATION HAND HOLE
- SMH-1 — PROPOSED SANITARY MANHOLE
- PROPOSED BOLLARD
- PROPOSED SIGN
- LP-1 — PROPOSED PARKING LOT LIGHT POLE AND LUMINAIRE

A2 ABBREVIATIONS

NOT TO SCALE

AFG	ABOVE FINISHED GRADE
BFG	BELOW FINISHED GRADE
DP	DISTRIBUTION PANEL
GND	GROUND
JB	JUNCTION BOX
KA	KILO AMP
KV	KILO VOLT
KVA	KILO VOLT AMP
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
PB	PULL BOX
REM	REMARKS
RGS	RIGID GALVANIZED STEEL CONDUIT
WP	WATER PROOF

A3 SHEET NOTES

NOT TO SCALE

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MARK	DATE	DESCRIPTION

REVISIONS

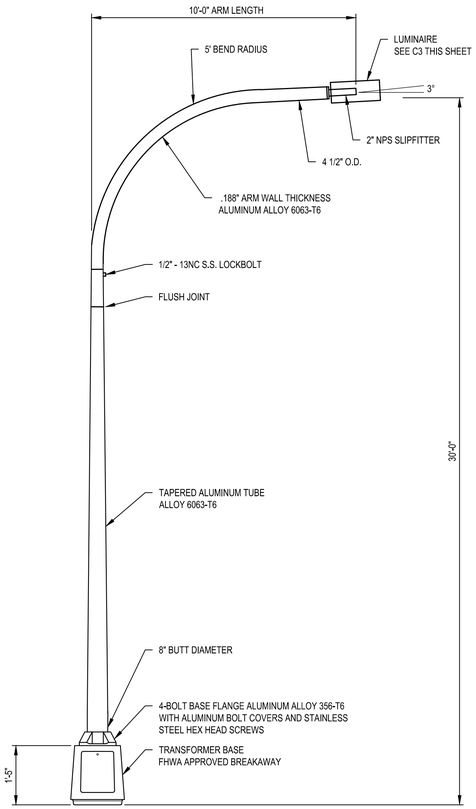
PROJECT NO:	146.205.011
DATE:	MARCH 6, 2026
DRAWN BY:	B. BUCKINGHAM
DESIGNED BY:	E. PROCOPIO, P.E.
CHECKED BY:	E. N. KENNA, P.E.

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ELECTRICAL SITE PLAN

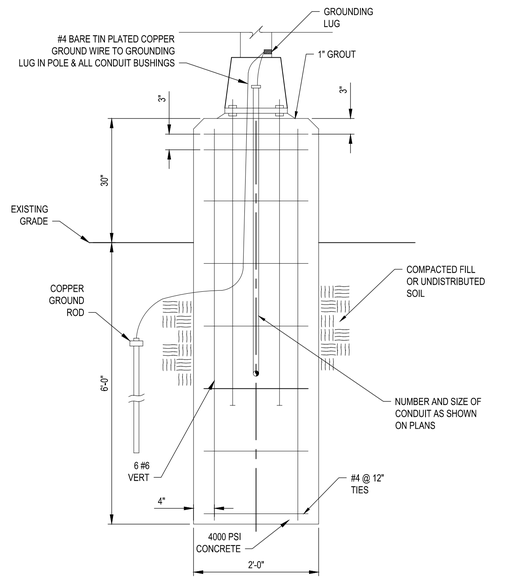
EL-102

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NOTES:
1. PROVIDE SATIN ALUMINUM FINISH.
2. DO NOT INSTALL LIGHT POLE WITHOUT LUMINAIRE.

B1 PARKING LOT LIGHT DETAIL
NOT TO SCALE



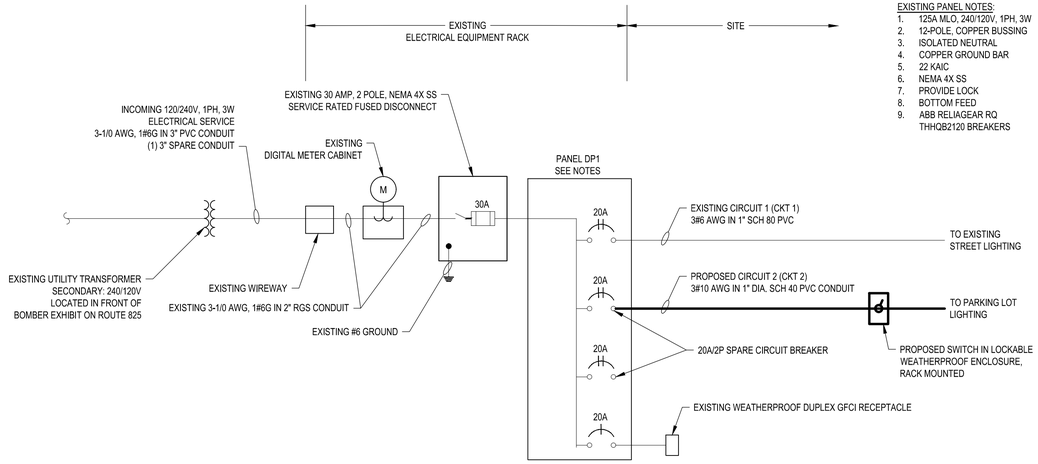
B2 LIGHT POLE FOUNDATION DETAIL
NOT TO SCALE

LUMINAIRE SCHEDULE

FIXTURE DESCRIPTION	MANUFACTURER AND MODEL NO.	NUMBER AND TYPE OF LAMP	VOLTS	DRIVER	MOUNTING	REMARKS
615	LUMEC #RFS-54W16LED-3K-G2-R2M-UNV-DMG-RCD-BAC OR APPROVED EQUAL	54W LED	240	DIMMING	POLE (SEE NOTE 1)	PROVIDE SMART NODE (PHILIPS #LLC7812)

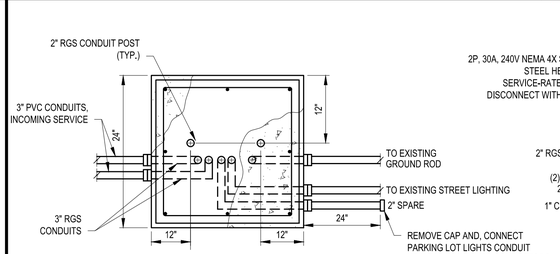
NOTES FOR LUMINAIRE SCHEDULE:
1. PROVIDE ROUND TAPERED ALUMINUM POLE WITH SINGLE DAVIT ARM AND TRANSFORMER BASE, HAPCO #RTA-30-D-8-B-F-D-1-A-01 OR APPROVED EQUAL. DESIGN IS TO MATCH POLE STYLE ALONG ROUTE 825 AND PERIMETER ROAD; CONTRACTOR SHALL VERIFY POLE HEIGHT AND ARM LENGTH PRIOR TO PROCUREMENT.
2. IN ADDITION TO ALL REQUIREMENTS OF THE LIGHTING SPECIFICATION, ALL LUMINAIRES SHALL INCLUDE THE IES FILE PER THE RESPECTIVE LIGHTING SPECIFICATION IN THIS PROJECT.
3. IF THE SUBMITTED LUMINAIRES SUBSTITUTIONS THE ENGINEER MAY REQUEST THE CONTRACTOR TO PROVIDE PHOTOMETRIC ANALYSIS USING AGI AS PART OF THE SUBMITTAL.

C3 LUMINAIRE SCHEDULE
NOT TO SCALE



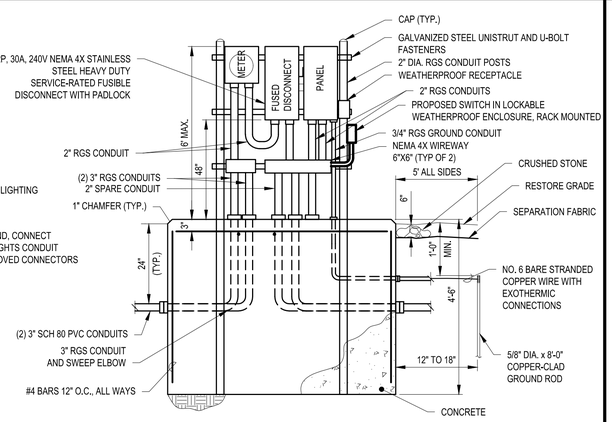
EXISTING PANEL NOTES:
1. 125A MLO, 240/120V, 1PH, 3W
2. 12-POLE, COPPER BUSSING
3. ISOLATED NEUTRAL
4. COPPER GROUND BAR
5. 22 KAIC
6. NEMA 4X SS
7. PROVIDE LOCK
8. BOTTOM FEED
9. ABB RELIAGEAR RQ THHQB2120 BREAKERS

B3 AREA LIGHTING ONE-LINE DIAGRAM
NOT TO SCALE



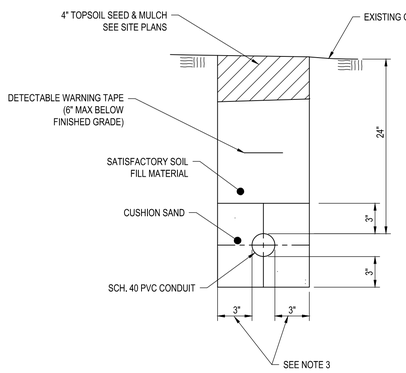
SECTION

NOTE:
1. ALL ITEMS ARE EXISTING UNLESS OTHERWISE NOTED.



FRONT ELEVATION

A1 EXISTING ELECTRICAL EQUIPMENT RACK DETAIL
NOT TO SCALE



NOTES:
1. DETECTABLE WARNING TAPE SHALL BE INSTALLED IN EACH TRENCH PRIOR TO PLACING TOPSOIL.
2. CONTRACTOR SHALL RESTORE TRENCHED AREAS TO A CONDITION EQUAL TO OR BETTER THAN ORIGINAL SURFACE.
3. THE TRENCH WIDTH SHALL BE WIDE ENOUGH TO ACCOMMODATE THE CONTRACTOR'S PROPOSED COMPACTION EQUIPMENT AND ACHIEVE SPECIFIED COMPACTION REQUIREMENTS.
4. EXCAVATIONS, TRENCHING AND SHORING SHALL BE IN ACCORDANCE WITH OSHA REQUIREMENTS.
5. EXCAVATIONS SHALL NOT UNDERMINE EXISTING PAVEMENTS, STRUCTURES OR UTILITIES.
6. ALL CONDUIT MINIMUM DEPTH REQUIREMENTS SHALL BE BASED ON PROPOSED FINISHED GRADE. IF SITE EXCAVATION OCCURS OVER CONDUITS AFTER INSTALLATION, THE CONDUITS SHALL BE INITIALLY SET LOWER TO ACCOMMODATE GRADE CHANGES.

A3 CONDUIT TRENCHING AND RESTORATION DETAIL
NOT TO SCALE

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Syracuse, New York 13212
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CERTIFICATE OF AUTHORIZATION #: 0021365

STATE OF NEW YORK · ERIC KENNA · LICENSED PROFESSIONAL ENGINEER · 085935

REGISTRATION EXPIRES: 07/31/27

ONEIDA COUNTY · 1798 · NEW YORK

TRIANGLE AREA CIVIL SITE DEVELOPMENT PUMP STATION
GRIFFISS INTERNATIONAL AIRPORT
ONEIDA COUNTY, ROME, NEW YORK

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ELECTRICAL DETAILS

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@	AT
DIA	DIAMETER
# OR LB	POUND
A.B.	ANCHOR BOLT
ACI	AMERICAN CONCRETE INSTITUTE
ADD'L	ADDITIONAL
ADJUST	ADJUSTMENT
AESS	ARCHITECTURALLY-EXPOSED STRUCTURAL STEEL
AFF	ABOVE FINISH FLOOR
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
AISI	AMERICAN IRON AND STEEL INSTITUTE
AITC	AMERICAN INSTITUTE OF TIMBER CONSTRUCTION
ALT	ALTERNATE
ALUM	ALUMINUM
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS
ASTM	AMERICAN SOCIETY FOR TESTING OF MATERIALS
AWS	AMERICAN WELDING SOCIETY
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
B/	BOTTOM OF
BAL	BALANCE
BCX	BOTTOM CHORD EXTENSION
BSMT	BASEMENT
C	CHANNEL
C/C	CENTER-TO-CENTER
CFMF	COLD-FORMED METAL FRAMING
CJ	CONTROL JOINT
CJP	COMPLETE JOINT PENETRATION
CL	CENTERLINE
CLR	CLEAR
CMA	COLUMN MASONRY ANCHOR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONSTR	CONSTRUCTION
CONT	CONTINUOUS
CRSI	CONCRETE REINFORCING STEEL INSTITUTE
d	PENNYWEIGHT
DEMO	DEMOLISH
DFT	DRY FILM THICKNESS
DWG	DRAWING
E-W	EAST-WEST
EA	EACH
EIFS	EXTERIOR INSULATION & FINISH SYSTEM
EL OR ELEV	ELEVATION
EMBED	EMBEDMENT
EOD	EDGE OF DECK
EOS	EDGE OF SLAB
EQ	EQUAL
EQUIP	EQUIPMENT
EX OR EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
F/S	FAR SIDE
FF	FINISH FLOOR
FD	FLOOR DRAIN
FDN	FOUNDATION
FLR	FLOOR
FS	FOOTING STEP
FT OR '	FOOT
FTG	FOOTING
HCP	HOLLOW CORE PLANK
GA	GAGE
GALV	GALVANIZED
GLULAM	GLUED-LAMINATED
HP	HIGH POINT
HSS	HOLLOW STRUCTURAL SECTION
IN OR "	INCH
INFO	INFORMATION
INT	INTERIOR
K	KIP (1000 LBS)
KB	KNEE BRACE
KSI	KIPS PER SQUARE INCH
L	ANGLE
LLBB	LONG LEGS BACK-TO-BACK
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LW	LIGHTWEIGHT
MAX	MAXIMUM
MECH	MECHANICAL
MIN	MINIMUM
ML	LOAD BEARING LINTEL
MO	MASONRY OPENING
N/S	NEAR SIDE
N-S	NORTH-SOUTH
NTS	NOT TO SCALE
NW	NORMAL WEIGHT
OC	ON CENTER
OH	OVERHEAD
OSHA	OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION
PAF	POWDER-ACTUATED FASTENER
PJP	PARTIAL JOINT PENETRATION
PL	PLATE
PEMB	PRE-ENGINEERED METAL BUILDING
PREFAB	PREFABRICATED
PROJ	PROJECTION
PT	PRESSURE-TREATED
R	RADIUS
RD	ROOF DRAIN
REQ'D	REQUIRED
RET	RETURN
RTU	ROOFTOP UNIT
SCHED	SCHEDULE
SECT	SECTION
SF	SHALLOW FOOTING
SFRM	SPRAYED FIRE-RESISTIVE MATERIAL
SIM	SIMILAR
SJI	STEEL JOIST INSTITUTE
SLBB	SHORT LEGS BACK-TO-BACK
SQ	SQUARE
SSMA	STEEL STUD MANUFACTURER'S ASSOCIATION
SSPC	STEEL STRUCTURES PAINTING COUNCIL
STD	STANDARD
SOG	SLAB ON GRADE
T/ OR TO	TOP OF
TCE	TOP OF CAISSON ELEVATION
TFE	TOP OF FOOTING ELEVATION
TGBE	TOP OF GRADE BEAM ELEVATION
TSE	TOP OF SLAB ELEVATION
TWE	TOP OF WALL ELEVATION
TYP	TYPICAL
U/S	UNDERSIDE
U.N.O.	UNLESS NOTED OTHERWISE
VERT	VERTICAL
VIF	VERIFY IN FIELD
W	WIDE-FLANGE SECTION
W/	WITH
W/O	WITHOUT
WP	WORK POINT
WS	WALL STEP
WT	TEE SECTION
WWR	WELDED WIRE REINFORCEMENT
XS	EXTRA-STRONG (STEEL PIPE)

A1 ABBREVIATIONS
SCALE: NOT TO SCALE

DESIGN CRITERIA

1. REFERENCED CODES AND DESIGN STANDARDS:
   - A. 2025 BUILDING CODE OF NEW YORK STATE (BCNYS)
   - B. ASCE/SEI 7-22 MINIMUM DESIGN LOADS AND ASSOCIATED CRITERIA FOR BUILDINGS AND OTHER STRUCTURES (ASCE 7-22)
2. STRUCTURAL LOADING DESIGN DATA:

A.	RISK CATEGORY:	III
B.	ROOF DEAD LOAD:	20 PSF
C.	FLOOR DEAD LOAD:	110 PSF
D.	ROOF LIVE LOAD:	20 PSF
a.	SEE ROOF LOADING DIAGRAM FOR ADDITIONAL LIVE LOADS ON ROOF DECK.	
E.	FLOOR LIVE LOADS:	
a.	CONTROL ROOM	125 PSF
b.	STAIRS	100 PSF
F.	WIND LOAD (3-SEC. GUST):	
a.	ULTIMATE WIND SPEED:	117 MPH
b.	ALLOWABLE STRESS DESIGN WIND SPEED, Vasd:	90 MPH
c.	RISK CATEGORY:	III
d.	EXPOSURE CATEGORY:	D
e.	ENCLOSURE CLASSIFICATION:	ENCLOSED
f.	INTERNAL PRESSURE COEFFICIENT:	±0.18
g.	WIND-BORNE DEBRIS REGION	NA
G.	SNOW LOAD:	
a.	GROUND SNOW LOAD, ULTIMATE Pg	98 PSF
b.	ASD GROUND SNOW LOAD, Pg,asd	68.6 PSF
c.	SNOW EXPOSURE FACTOR (Ce)	0.9
d.	THERMAL FACTOR (Ct)	1.15
e.	SLOPE FACTOR (Cs)	1.0
f.	WINTER WIND PARAMETER	0.45
g.	FLAT ROOF SNOW LOAD, Pf	80 PSF
h.	DRIFT LOADS CALCULATED PER ASCE 7-22	
H.	RAIN LOAD:	
a.	15-MINUTE PRECIPITATION INTENSITY	5.10 IN./HR
b.	60-MINUTE PRECIPITATION INTENSITY	2.21 IN./HR
I.	SEISMIC LOAD:	
a.	RISK CATEGORY	III
b.	SEISMIC IMPORTANCE FACTOR	1.25
c.	SS	.200
d.	S1	.051
e.	SITE CLASS	D
f.	Sds	.170
g.	Sd1	.072
h.	SEISMIC DESIGN CATEGORY	B
i.	ANALYSIS PROCEDURE USED	EQUIVALENT LATERAL FORCE
j.	BASIC SEISMIC FORCE-RESISTING SYSTEM	ORDINARY REINFORCED MASONRY SHEAR WALLS
k.	RESPONSE MODIFICATION COEFFICIENT, R	2.0
l.	DESIGN BASE SHEAR, V	26.7KIP

3. HANDRAIL ASSEMBLIES AND GUARDS SHALL BE DESIGNED FOR 50 PLF OR A CONCENTRATED LOAD OF 200 LBS LOCATED AT ANY POINT APPLIED IN ANY DIRECTION AT THE TOP AND MID RAIL AND TRANSFER THE LOAD TO THE SUPPORT STRUCTURE. THE LOADS NEED NOT TO ACT CONCURRENTLY

.

GENERAL: (THE FOLLOWING REQUIREMENTS TOGETHER WITH THE PROJECT PLANS AND SPECIFICATIONS SHALL APPLY TO THE STRUCTURES IN THIS CONTRACT.)

1. THE CONTRACTOR IS RESPONSIBLE FOR THE SURVEY AND FIELD VERIFYING ALL EXISTING CONDITIONS.
2. WORK ON STRUCTURAL DRAWINGS REPRESENTS FINAL CONDITIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR THE STRUCTURAL STABILITY OF ALL INTERMEDIATE CONDITIONS DURING CONSTRUCTION.
3. THE CONTRACTOR SHALL COORDINATE THE ARCHITECTURAL, PLUMBING, HVAC, ELECTRICAL, AND PROCESS DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION NOT INDICATED ON THE STRUCTURAL DRAWINGS. SUCH INFORMATION INCLUDES, AS A MINIMUM, EMBEDDED SLEEVES AND INSERTS, MISCELLANEOUS DETAILS, SPECIAL FLOOR FINISHES, DOOR THRESHOLDS, SLOPES TO DRAINS, NAILERS, OPENINGS IN STRUCTURAL ELEMENTS, ETC.
4. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE ERECTION PROCEDURE AND SEQUENCE TO ENSURE THE STABILITY OF THE STRUCTURE AND ITS COMPONENT PARTS DURING ERECTION. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF WHATEVER TEMPORARY BRACING, GUYS, TIE-DOWNS, AND/OR SHORING MAY BE NECESSARY. SUCH MATERIAL SHALL BE REMOVED AND SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AFTER THE COMPLETION OF THE PROJECT.
5. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR FOR INITIATING, MAINTAINING, AND SUPERVISING ALL SAFETY PROCEDURES. THE STRUCTURAL ENGINEER OF RECORD IS NOT RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION OR FOR RELATED SAFETY PROCEDURES.
6. TYPICAL NOTES AND DETAILS SHOWN ON STRUCTURAL TYPICAL DETAILS SHALL BE APPLICABLE TO ALL PARTS OF THE STRUCTURAL WORK EXCEPT WHERE SPECIFICALLY REQUIRED OTHERWISE ON THE CONTRACT DOCUMENTS. DETAILS NOT SPECIFICALLY SHOWN SHALL BE SIMILAR TO THOSE SHOWN FOR THE MOST NEARLY SIMILAR CONDITION ON THE DRAWINGS AS DETERMINED BY THE ENGINEER.
7. DO NOT SCALE DRAWING DIMENSIONS. IN THE EVENT OF A GRID LINE DIMENSION CONFLICT, THE ARCHITECTURAL DRAWINGS SHALL GOVERN.
8. THE CONTRACTOR SHALL SUBMIT THE REQUIRED DESIGNS AND COMPLETE SHOP DRAWINGS FOR ALL PARTS OF THE WORK INCLUDING DESCRIPTION OF DEMOLITION, TEMPORARY BRACING, CONSTRUCTION METHODS AND SEQUENCING, WHERE APPLICABLE NO PERFORMANCE OF WORK SHALL COMMENCE WITHOUT REVIEW OF THE DESIGN AND SHOP DRAWINGS BY THE ENGINEER.
9. FABRICATION PRIOR TO THE RECEIPT OF AN APPROVED SHOP DRAWINGS SHALL BE AT THE CONTRACTOR'S OWN RISK. INSTALLATION OF ANY WORK PRIOR TO RECEIPT OF AN APPROVED SHOP DRAWING SHALL BE STRICTLY PROHIBITED.
10. FOR ELEVATIONS REFER TO THE PLAN SHEETS.
11. DRILLING, CORING, SAW CUTTING AND ETC. INTO CONCRETE SHALL MEET THE LATEST OSHA REGULATIONS FOR SILICA DUST EXPOSURE.

GROUNDWORK AND EXCAVATIONS

1. DEWATER, EXCAVATE, FILL AND COMPACT SOIL IN PREPARATION FOR PUMP STATION WET AND DRY WELL STRUCTURE AND FOUNDATIONS IN ACCORDANCE WITH THE RECOMMENDATIONS PRESENTED IN THE GEOTECHNICAL REPORT PREPARED BY CME ASSOCIATES DATED 01/14/2026 AND THE APPROVED SUPPORT OF EXCAVATION AND DEWATERING DESIGNS.
2. IMPERMEABLE SUPPORT OF EXCAVATION WALLS SHALL BE UTILIZED AS PART OF THE PROPOSED EXCAVATION AND DEWATERING SYSTEM TO CUT OFF LATERAL GROUND WATER FLOW WITHOUT CREATING EXCESSIVE HYDRAULIC GRADIENTS. COORDINATE DESIGN OF THE SUPPORT OF EXCAVATION SYSTEM AND THE DEWATERING SYSTEM TO MAINTAIN A DRY EXCAVATION BASE CONTINUOUSLY THROUGHOUT THE WORK.
3. THE IMPERMEABLE SUPPORT OF EXCAVATION SYSTEM SHALL CONSIST OF STEEL SHEET PILES, HORIZONTAL BRACING, AND/OR TIE-BACK ANCHORS DRILLED INTO ROCK OR SURROUNDING SOILS. THE CONTRACTOR IS RESPONSIBLE FOR THE DELEGATED DESIGN OF THE SUPPORT OF EXCAVATION SYSTEM, WHICH SHALL BE DESIGNED TO MAINTAIN THE STABILITY OF THE EXCAVATION DURING THE DURATION OF CONSTRUCTION AND TO SUPPORT OF ANY LOADS THAT WILL BE PRESENT DURING CONSTRUCTION, INCLUDING BUT NOT LIMITED TO EXCAVATORS, DUMP TRUCKS, CONCRETE TRUCKS, CRANES, ETC.
4. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN OF THE DEWATERING SYSTEM WHICH SHALL BE UTILIZED IN CONJUNCTION WITH THE SUPPORT OF EXCAVATION SYSTEM. THE DEWATERING SYSTEM SHALL BE DESIGNED FOR THE WORST CASE CONDITION ASSUMING THE PERMEABILITY OF THE SAND AND GRAVEL DEPOSIT COULD BE AS HIGH AS K = 100 cm/s.
5. ALL EXCAVATIONS SHALL BE DEWATERED TO MAINTAIN GROUNDWATER AT LEAST 24" BELOW FOOTING BEFORE PLACING OF CONCRETE.
6. SLOPE THE EXTERIOR GRADE AWAY FROM THE STRUCTURE. REFER TO CIVIL PLANS FOR DETAILS.
7. PROVIDE TEMPORARY OR PERMANENT SUPPORTS, SHORING, SHEETING OR BRACING SO THAT NO HORIZONTAL MOVEMENT OR VERTICAL SETTLEMENT OCCURS TO ADJACENT STRUCTURES, STREETS, SOILS OR UTILITIES ADJACENT TO OR WITHIN THE PROJECT SITE.
8. BACKFILL SHALL BE PLACED IN COMPACTED LIFTS PER THE EARTHWORK SPECIFICATIONS.
9. NO FOUNDATION CONCRETE SHALL BE PLACED IN WATER.
10. DO NOT BACKFILL UNTIL CONCRETE TIGHTNESS TESTING HAS BEEN COMPLETED, WHICH SHALL BE COMPLETED AFTER THE ENTIRE CONCRETE STRUCTURE, INCLUDING THE TOP OF SLAB, IS IN PLACE AND HAS REACHED FULL DESIGN STRENGTH. REFER TO CONCRETE GENERAL NOTES AND PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION ON TIGHTNESS TESTING REQUIREMENTS.
11. COMPONENTS OF ANY SUPPORT OF EXCAVATION SYSTEM SHALL REMAIN IN PLACE UNTIL ALL PERMANENT STRUCTURAL SYSTEMS AT AND BELOW GROUND ARE IN PLACE.

FOUNDATIONS

1. THE FOUNDATION HAS BEEN DESIGNED IN ACCORDANCE WITH THE RECOMMENDATIONS CONTAINED IN THE GEOTECHNICAL REPORT 28360B-03-0126 PREPARED BY CME ASSOCIATES DATED 01/14/2026.
2. THE GEOTECHNICAL REPORT NAMED ABOVE IS INCLUDED IN THE PROJECT SPECIFICATIONS. THE ARCHITECT AND ENGINEER WILL NOT BE RESPONSIBLE FOR THE ACCURACY OR APPLICABILITY OF SUCH DATA THEREIN.
3. NO RESPONSIBILITY IS ASSUMED BY THE ENGINEER FOR THE VALIDITY OF THE SUBSURFACE CONDITIONS DESCRIBED ON THE DRAWINGS, SPECIFICATIONS, TEST BORINGS, OR TEST PITS. THESE DATA ARE INCLUDED ONLY TO ASSIST THE CONTRACTOR DURING BIDDING AND SUBSEQUENT CONSTRUCTION. THEY REPRESENT CONDITIONS ONLY AT THE SPECIFIC LOCATIONS AT THE TIME DATA WAS COLLECTED.
4. MAXIMUM ALLOWABLE SOIL BEARING PRESSURE = 4000 PSF
5. FOOTINGS TO BEAR ON A LEVELING BASE CONSISTING OF 12" NYSDOT #2 CRUSHED STONE BASE OR A 4" THICK LEAN CONCRETE MUD MAT, BOTH PLACED OVER A SOIL SEPERATOR FABRIC SUCH AS MIRAFI 140N OR APPROVED EQUAL. STRUCTURAL FILL TO EXHIBIT A DENSITY OF AT LEAST 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 1557 (MODIFIED PROCTOR). COMPACTED STRUCTURAL FILL SHALL CONSIST OF CLEAN SCREENED, CRUSHED, OR BANK-RUN GRAVEL CONFORMING TO THE GRADATION REQUIREMENTS SET FORTH IN THE GEOTECHNICAL REPORT.
6. GEOTECHNICAL ENGINEER MUST REVIEW THE FINAL SITE AND GRADING PLANS TO VALIDATE ALL RECOMMENDATIONS SET FORTH IN THE GEOTECHNICAL REPORT AND CONFIRM THEIR FINDINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF INSPECTIONS OR EXAMINATIONS PRIOR TO CONSTRUCTION COMMENCEMENT.
7. PERFORM SOIL COMPACTION TESTING, AT LEAST ONE TEST EVERY 100 FEET OF WALL FOOTING. PROVIDE A MINIMUM OF 4 SOIL COMPACTION TESTS AT EVERY BUILDING.

CONCRETE

1. SHALL CONFORM TO THE REQUIREMENTS OF ACI 301 - SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS.
2. STANDARDS:
   - A. DESIGN: ACI 318 - 19, ACI 350 - 20
   - B. DETAILS: ACI 315 - 18, ACI 350 - 20
   - C. MATERIALS: ACI 301 - 16
3. DESIGN STRENGTH:
   - A. FOUNDATIONS, BEAMS, AND STRUCTURAL SLABS: 5000 PSI COMPRESSIVE STRENGTH @ 28 DAYS, NORMAL WEIGHT CONCRETE AIR ENTRAINED PER SPECIFICATIONS
4. SUBMIT PROPOSED CONCRETE MIX DESIGNS TO THE OWNER'S REPRESENTATIVE AND TESTING LABORATORY CONCURRENTLY FOR REVIEW AND APPROVAL.
5. MINIMUM CONCRETE COVER OVER BARS:
   - A. CONCRETE DEPOSITED ON GROUND 3".
   - B. FORMED CONCRETE EXPOSED TO GROUND, WEATHER OR WATER 2".
   - C. WALLS & SLABS NOT DIRECTLY EXPOSED TO GROUND, WATER, OR WEATHER 1-1/2".
6. CLEAN AND APPLY BONDING AGENT TO ALL EXISTING CONCRETE SURFACES TO RECEIVE NEW CONCRETE. ALL CONCRETE TO CONFORM WITH THE LATEST ACI BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE. (ACI - 301)
7. SECTIONS AND DETAILS MAY NOT SHOW ALL REQUIRED CONCRETE REINFORCEMENT. ADDITIONAL REINFORCEMENT MAY BE DESCRIBED IN SCHEDULES (IF APPLICABLE) AND NOTES.
8. PROVIDE BAR SUPPORTS AND SPACERS IN ACCORDANCE WITH REQUIREMENTS OF ACI 315 UNLESS NOTED OTHERWISE.
9. NOT ALL ITEMS EMBEDDED IN THE CONCRETE ARE SHOWN ON THE STRUCTURAL DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE INSTALLATION OF ALL OPENINGS AND EMBEDDED ITEMS IN THE CONCRETE PERTAINING TO THE DIFFERENT TRADES AS SHOWN ON THEIR RESPECTIVE DRAWINGS. SLEEVES, MECHANICAL OPENINGS, CONDUITS, PIPES, RECESSES, DEPRESSIONS, CURBS, AND ALL EMBEDDED ITEMS SHALL BE PROVIDED AS SHOWN ON THE ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS AND AS REQUIRED BY THE EQUIPMENT MANUFACTURERS.
10. EMBEDDED CONDUITS, PIPES, OR OTHER UTILITIES NOT SHOWN ON THE STRUCTURAL DRAWINGS SHALL NOT BE PERMITTED WITHOUT WRITTEN PERMISSION FROM THE ENGINEER. WHERE EMBEDDED ITEMS ARE ALLOWED, THEY SHALL BE SPACED NOT LESS THAN THREE DIAMETERS ON CENTER EACH WAY BUT WITH NOT LESS THAN TWO INCHES CLEAR SPACE BETWEEN EMBEDDED ITEMS. THE TOTAL DEPTH OF ALL EMBEDDED ITEMS AND THE CLEAR SPACE BETWEEN THEM SHALL NOT EXCEED 1/3 OF THE TOTAL CONCRETE DEPTH AND SHALL BE CONFINED TO THE MIDDLE THIRD OF THE CONCRETE DEPTH.
11. UNLESS OTHERWISE NOTED ON THE DRAWINGS, THE SIZE OF CONCRETE PLACEMENTS SHALL BE LIMITED AS FOLLOWS:
   - A. STRIP FOOTINGS AND WALLS: 60 FT (UNLESS INTERMEDIATE CONTROL JOINTS ARE PROVIDED
12. PROVIDE 3/4" CHAMFER ON ALL EXPOSED CONCRETE EDGES U.N.O
13. THROUGH PENETRATIONS FOR CONCRETE WALLS OR SLABS SHALL CONFORM TO STANDARD DETAIL DRAWINGS.
14. MULTIPLE PENETRATIONS SHALL NOT BE SPACED CLOSER THAN THREE TIMES THE DIAMETER OR THREE TIMES THE WIDTH OF THE LARGER OPENING WITHOUT APPROVAL OF THE ENGINEER.
15. CONCRETE EXPOSURE IS DESIGNED TO ACI 350 EXPOSURE CLASS ES1 FOR SULFATE RESISTANCE BASED ON WASTEWATER HELD WITHIN WET WELL, WHICH COVERS A RANGE OF SOLUABLE SULFATES BETWEEN UP TO A MAXIMUM 1500 PPM.

CONCRETE REINFORCING

1. REINFORCING:
   - A. MESH: ASTM A-185 (FLAT SHEETS)
   - B. BARS:
     - a. ALL FRAMING INCLUDING WALLS AND MAT SLAB: ASTM A-615 GRADE 60 - DEFORMED.
2. SPLICES IN REINFORCEMENT: UNLESS OTHERWISE NOTED, ALL SPLICES AND ANCHORAGES SHALL BE PER ACI. STAGGER SPLICES WHEREVER POSSIBLE AND LOCATE SO AS NOT TO IMPAIR STRENGTH OF MEMBERS.
3. REINFORCEMENT WORK OF DETAILING, FABRICATION ,AND ERECTION SHALL CONFORM TO THE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318, ACI 350, ACI DETAILING MANUAL-2004 (SP 66) CRSI MANUAL OF STANDARD PRACTICE (MSP 2009), AND THE STRUCTURAL WELDING CODE- REINFORCING STEEL (AWS D1.1).
4. PROVIDE AND SCHEDULE ON SHOP DRAWINGS THE NECESSARY ACCESSORIES TO HOLD ALL REINFORCEMENT SECURELY IN POSITION.
5. WHERE CONTINUOUS REINFORCEMENT IS CALLED FOR , IT SHALL BE EXTENDED CONTINUOUSLY AROUND CORNERS AND LAPPED AT SPLICES OR AT DISCONTINUOUS ENDS. LAPS SHALL BE CLASS B TENSION LAP SPLICES UNLESS OTHERWISE NOTED.
6. WHERE REINFORCEMENT IS NOT SHOWN ON DRAWINGS, PROVIDE REINFORCEMENT IN ACCORDANCE WITH APPLICABLE DETAILS AS DETERMINED BY THE ENGINEER. IN NO CASE SHALL THE REINFORCEMENT BE LESS THAN THE MINIMUM PERMITTED BY THE APPLICABLE CODES.
7. WHERE REINFORCEMENT IS REQUIRED IN SECTION, REINFORCEMENT IS CONSIDERED TYPICAL WHEREVER THE SECTION APPLIES.
8. WHERE THERE IS A CONFLICT BETWEEN COLUMN VERTICAL BARS AND SLAB OR BEAM HORIZONTAL BARS THE COLUMN BARS SHALL REMAIN IN THEIR DESIGNATED POSITIONS AND THE HORIZONTAL BARS SHALL BE ADJUSTED.
9. REINFORCEMENT SHALL BE CONTINUOUS THROUGH CONSTRUCTION JOINTS.
10. COLUMN DOWELS SHALL BE SET WITH A TEMPLATE SO AS TO BE ENCLOSED BY THE COLUMN TIES.
11. DOWELS SHALL MATCH BAR SIZES UNLESS OTHERWISE NOTED.
12. WELDED WIRE FABRIC SHALL BE LAPPED 8 INCHES OR 1 1/2 SQUARES WHICHEVER IS LARGER AND SHALL BE WIRED TOGETHER.
13. REINFORCEMENT SHALL NOT BE TACK WELDED. REINFORCING BARS TO BE WELDED SHALL CONFORM TO ASTM A706 FY=60KSI.
14. REINFORCEMENT INSTALLATION SHALL BE COMPLETED AT LEAST 24 HOURS BEFORE A CONCRETE PLACEMENT OR SHALL BE COORDINATED WITH THE OAR TO ENSURE PROPER TIME IS ALLOWED FOR THE INSPECTION OF THE REINFORCING. NOTIFY THE ENGINEER OF COMPLETION.
15. ALL REINFORCEMENT SHALL BE SECURELY TIED IN PLACE AT THE POSITIONS SHOWN ON THE DRAWINGS BEFORE PLACING CONCRETE.
16. UNLESS NOTED OTHERWISE, ALL BARS SHALL BE EMBEDDED TO A MINIMUM DEPTH (Ld OR Ldh)

A2 GENERAL NOTES
SCALE: NOT TO SCALE

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CERTIFICATE OF AUTHORIZATION# 0021365

STATE OF NEW YORK · JOHN W. OBLEY · 082000 · REGISTERED PROFESSIONAL ENGINEER

REGISTRATION EXPIRES: 05/31/2028

ONEIDA COUNTY 1798 NEW YORK

TRIANGLE AREA CIVIL SITE DEVELOPMENT PUMP STATION GRIFFISS INTERNATIONAL AIRPORT ONEIDA COUNTY, ROME, NEW YORK

MARK	DATE	DESCRIPTION

REVISIONS

PROJECT NO:	146.205.011
DATE:	MARCH 6, 2026
DRAWN BY:	M.S.ROLFE, P.E.
DESIGNED BY:	M.S.ROLFE, P.E.
CHECKED BY:	K.J.SPYTKO, P.E.

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GENERAL NOTES & ABBREVIATIONS

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STRUCTURAL STEEL

1. STANDARDS:
   A. DESIGN - AISC 360 - 22
   B. CONSTRUCTION - AISC 303, LATEST EDITION
   C. BOLTED CONNECTIONS - LATEST EDITION OF AISC SPECIFICATIONS FOR STRUCTURAL JOINTS USING
   D. ASTM A325 OR A490 BOLTS.
   E. WELDED CONNECTIONS - AMERICAN WELDING SOCIETY (AWS) D1.1, LATEST EDITION
2. WIDE FLANGE SECTIONS AND TEES - ASTM A992 (Fy = 50 KSI)
3. SQUARE, RECTANGULAR & ROUND HOLLOW STRUCTURAL SECTIONS (HSS) - ASTM A500 GRADE C.
4. ANGLES, PLATES AND BARS - ASTM A572-50, (EXCEPT WHERE NOTED TO BE ASTM A36)
5. BEAM/COLUMN CONTINUITY PLATES AND DOUBLER PLATES - ASTM A572-50
6. PIPE SECTIONS - ASTM A53 GRADE B.
7. ALL STRUCTURAL BOLTS SHALL BE ASTM A-325 TYPE N UNLESS OTHERWISE NOTED.
8. ALL EMBEDDED STEEL ANCHOR BOLTS SHALL BE FABRICATED IN ACCORDANCE WITH THE LATEST A.I.S.C. STANDARD SPECIFICATIONS AND SHALL BE ASTM F1554, GRADE 55, U.N.O.
9. USE WELDED OR BOLTED SHOP CONNECTIONS AND BOLTED FIELD CONNECTIONS WHERE POSSIBLE.
10. ALL EMBEDDED STEEL SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION.
11. ALL WELDING SHALL CONFORM WITH THE LATEST EDITION OF AWS CODE. ALL WELDERS (SHOP & FIELD) SHALL BE AWS D1.1 CERTIFIED FOR THE TYPE OF WELDING BEING PERFORMED.
12. TO OBTAIN SPECIFIED ALIGNMENT AND FIT-UP U.N.O. FIELD WELDING MUST BE PERFORMED WHERE SPECIFICALLY NOTED. EDGE OF SLAB AND ROOF BENT PLATES, ANGLES AND OTHER MISC EXTERIOR, OR INTERIOR WALL ALIGNMENT ITEMS SHALL BE FIELD WELDED TO BEAMS. PROVIDE FABRICATION AND ERECTION TOLERANCES MORE STRINGENT THAN SPECIFIED BY AISC WHERE REQUIRED TO ACHIEVE THE DETAILS INDICATED.
13. ALL WELDING SHALL BE DONE USING E70XX ELECTRODES, U.N.O.
14. WHERE A GROOVE WELD IS SHOWN WITHOUT AN INDICATED DEPTH OF PENETRATION THE JOINT SHALL BE A COMPLETE JOINT PENETRATION WELD (CJP).
15. WELDED HEADED STUD ANCHORS FOR EMBEDDED PLATES AND SHEAR REINFORCEMENT SHALL CONFORM TO AWS D1.1, ASTM A29, Fu=65KSI
16. ANCHOR BOLTS OR RODS SHALL BE BUILT INTO CONNECTING WORK PRESET BY TEMPLATES OR SIMILAR METHODS.
17. MINIMUM CONNECTION BOLT DIAMETER IS 3/4 INCH UNLESS NOTED OTHERWISE. BEAM CONNECTIONS MUST HAVE AT LEAST TWO BOLTS.
18. PROVIDE FRICTION TYPE BOLT CONNECTIONS IN ALL MOMENT CONNECTIONS.
19. SIMPLE SHEAR CONNECTIONS SHALL BE CAPABLE OF END ROTATION PER AISC REQUIREMENTS FOR UNRESTRAINED MEMBERS.
20. MINIMUM SIZE OF FILLET WELDS SHALL BE 1/4 INCH UNO.
21. PROVIDE FRAMED OR SEATED BEAM CONNECTIONS IN ACCORDANCE WITH THE AISC MANUAL OF STEEL CONSTRUCTION. UNLESS OTHERWISE NOTED, BEAM CONNECTIONS SHALL BE DETAILED TO HAVE A CAPACITY OF NOT LESS THAN ONE-HALF THE TOTAL ALLOWABLE UNIFORM LOAD DETERMINED IN ACCORDANCE WITH AISC MANUAL OF STEEL CONSTRUCTION TABLE (ASD) FOR "UNIFORM LOAD CONSTRAINTS FOR BEAMS LATERALLY SUPPORTED", FOR BEAMS AND SPANS IN QUESTION.
22. ENDS OF COLUMNS AT SPLICES OR LOOSE BASE PLATES SHALL BE "FINISHED TO FULL CONTACT".
23. PROVIDE STIFFENERS "FINISHED TO CONTACT" UNDER ALL LOAD CONCENTRATIONS ON SUPPORTING MEMBERS, OVER COLUMNS, AND WHERE SHOWN ON THE DRAWINGS.
24. PROVIDE TEMPORARY ERECTION BRACING AND SUPPORTS TO HOLD THE STRUCTURAL STEEL FRAME SECURELY IN POSITION. BRACING SHALL NOT BE REMOVED UNTIL THE PERMANENT LATERAL LOAD RESISTING SYSTEM IS IN PLACE AND CONCRETE FOR FLOORS AND ROOFS HAVE ACHIEVED AT LEAST 75% OF THEIR DESIGN STRENGTH. THE STEEL FRAME SHALL BE CONSIDERED A NON SELF-SUPPORTING FRAME UNTIL ALL SLAB DIAPHRAGMS ARE IN PLACE
25. FIELD CUTTING OF STRUCTURAL STEEL OR ANY FIELD MODIFICATIONS SHALL NOT BE MADE WITHOUT PRIOR WRITTEN APPROVAL BY THE ENGINEER FOR EACH INDIVIDUAL CASE.
26. ALL STRUCTURAL STEEL FRAMING, FASTENERS, AND ACCESSORIES SHALL BE HOT DIP GALVANIZED. REPAIR ALL DAMAGED COATINGS WITH APPROVED COLD GALVANIZING COATING.

CONCRETE UNIT MASONRY

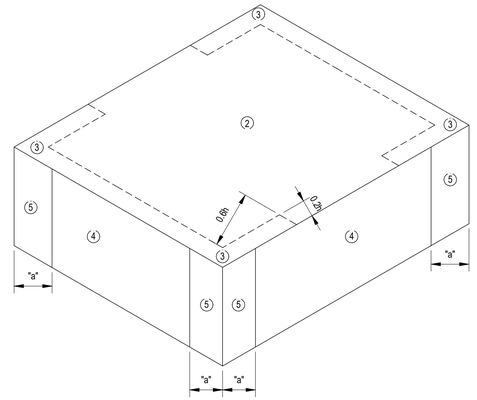
1. FURNISH AND CONSTRUCT CONCRETE MASONRY UNIT WORK ACCORDING TO REQUIREMENTS OF ACI 530.1-11 FOR MATERIALS, AND ACI 530-11 FOR DESIGN (MSJC). CONTACT OWNER'S REPRESENTATIVE BEFORE MASONRY WORK TO SCHEDULE PRE-CONSTRUCTION CONFERENCE WITH ENGINEER, GENERAL CONTRACTOR, MASONRY CONTRACTOR AND TESTING LABORATORY.
2. TEST (VERIFY) THE COMPRESSIVE STRENGTH OF THE MASONRY BY THE UNIT STRENGTH METHOD. VERIFY THE COMPRESSIVE STRENGTH OF THE MASONRY BEFORE CONSTRUCTION. ALL CONCRETE MASONRY ASSEMBLAGES SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (FM) OF 2,000 PSI. MASONRY UNITS SHALL BE ACCORDING TO REQUIREMENTS OF ASTM C90 HOLLOW CORE, GRADE N, WITH A NET AREA COMPRESSIVE STRENGTH 2,800 PSI MINIMUM. MORTAR SHALL BE TYPE S WITH WASHED SAND AGGREGATE ACCORDING TO REQUIREMENTS OF ASTM C144. MORTAR SHALL BE ACCORDING TO REQUIREMENTS OF ASTM C270 (PROPORTION SPECIFICATION TYPE S). SUBMIT FOR REVIEW PRODUCT DATA CONFIRMING THAT MASONRY PRODUCTS MEET OR EXCEED THESE STANDARDS.
3. FOR FILLING SPACES 4" OR LARGER IN BOTH DIRECTIONS, USE "COARSE GROUT" WITH A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI. FOR FILLING SPACES LESS THAN 4" IN ONE OR BOTH DIRECTIONS USE FINE GROUT PROPORTIONED PER ASTM C476. THE GROUT SHALL BE TESTED IN ACCORDANCE WITH ASTM C1019.
4. PLACE GROUT IN 4'-0" LIFTS AT 9" TO 11" SLUMP (HIGH-RANGE WATER REDUCING ADMIXTURE ASTM C494 TYPE F OR TYPE G). GROUT SHALL BE MIXED AT THE PLANT AND DELIVERED TO THE SITE BY A READY-MIX CONCRETE COMPANY.
5. PROVIDE A CLASS B TENSION LAP AT ALL VERTICAL CMU REINFORCING UNO. ALL BARS SHALL BE TIED.
6. AT MASONRY OPENINGS WITH MASONRY LINTEL ABOVE OPENINGS, PROVIDE DOWELS WITH 2'-0" PROJECTION INTO LINTEL, MATCH VERT STEEL SIZE & REINF.
7. ALL MASONRY SHALL HAVE STANDARD HORIZONTAL JOINT REINFORCING AT 16" O.C. HOT DIPPED GALV.
8. 12" CMU WALL VERTICAL REINFORCING TO BE #5 @ 48" O.C. MAX. IN GROUTED CELLS, UNLESS NOTED OTHERWISE. BARS TO BE CENTERED WITHIN CELLS. PROVIDE VERTICAL #5 BARS AT CORNERS, WALL ENDS, WALL INTERSECTIONS, AND EACH SIDE OF OPENINGS (PER TYP DETAIL).
9. PROVIDE DOWELS @ BOTTOM OF CMU WALL, MATCH VERTICAL BAR SIZE AND SPACING, TYP.
10. PROVIDE STANDARD HOOKED HORIZONTAL BARS AT ENDS OF BOND BEAMS. ALL VERTICAL BARS SHALL HAVE STANDARD HOOK INTO BOND BEAM.
11. REFER TO THE ARCHITECTURAL DRAWINGS FOR THE ROUGH MASONRY OPENING DIMENSIONS & ELEVATIONS.
12. MAXIMUM SPACING OF CMU CONTROL JOINTS NOT TO EXCEED 25'-0". SEE ARCH FOR JOINT LOCATIONS.
13. CONTRACTOR IS RESPONSIBLE FOR CMU WALL BRACING DURING CONSTRUCTION.
14. REINFORCED MASONRY IS CONTROLLED MATERIAL THAT REQUIRES CONTINUOUS INSPECTION DURING CONSTRUCTION. COORDINATE CONSTRUCTION WITH THE SPECIAL INSPECTOR.
15. THROUGH PENETRATIONS FOR CMU WALLS THAT ARE CONFINED TO A SINGLE 8"X16" MASONRY UNIT SHALL NOT REQUIRE LINTELS OR OTHER REINFORCEMENT.
16. MULTIPLE PENETRATIONS THROUGH CMU WALLS SHALL NOT REQUIRE REINFORCEMENT PROVIDED THERE IS ONE FULL 8"X16" BETWEEN PENETRATIONS.
17. WHERE MULTIPLE PENETRATIONS ARE THROUGH ADJACENT 8"X16" MASONRY UNITS PROVIDE LINTELS PER STANDARD DETAIL DRAWINGS.

COMPONENTS AND CLADDING WIND PRESSURE NOTES:

1. THE COMPONENTS AND CLADDING WIND LOAD PRESSURES IN THE TABLES ARE BASED ON THE LATEST EDITION OF ASCE 7. THE WIND PRESSURES ARE ULTIMATE LOAD PRESSURES. REFER TO THE GENERAL NOTES AND DESIGN DATA NOTES FOR WIND LOAD INFORMATION AND PARAMETERS.
2. THE PRESSURES IN THE TABLES BELOW ARE TO BE USED FOR WIND CONTRIBUTION TO THE TOTAL LOAD APPLIED TO ANY COMPONENTS AND CLADDING MEMBER OR MATERIAL WHICH IS PART OF A ROOF OR EXTERIOR WALL ASSEMBLY.
3. REFER TO ASCE 7 FOR DEFINITION OF TERMS.
4. CONFIGURATION OF END ZONES, EDGE STRIPS, AND CORNERS SHALL BE PER ASCE 7.
5. INTERPOLATION FOR EFFECTIVE WIND AREA BETWEEN 10 SF AND 100 SF FOR ROOFS, AND 10 SF AND 500 SF FOR WALLS IS PERMITTED.
6. PRESSURES ARE APPLIED NORMAL TO THE SURFACE OF THE COMPONENT OR CLADDING ELEMENT.
7. POSITIVE AND NEGATIVE PRESSURES ACT SIMULTANEOUSLY AT PARAPETS.
8. THE WIDTH OF EDGE STRIP (a) SHALL BE PER THE DIAGRAMS PRESENTED.

COMPONENTS AND CLADDING DIAGRAM FOR ALL OTHER BUILDINGS (FLAT ROOF 0° < θ ≤ 3° & GABLED ROOF θ ≤ 7°)

a = 10% OF THE LEAST HORIZONTAL DIMENSION OR 0.4h, WHICHEVER IS SMALLER, BUT NOT LESS THAN EITHER 4% OF THE LEAST HORIZONTAL DIMENSION OR 3 FT (0.9m).
h = MEAN ROOF HEIGHT, FT (m), EXCEPT THAT EAVE HEIGHT SHALL BE USED FOR θ ≤ 10°.



DESIGN WIND PRESSURES FOR EXTERIOR COMPONENTS AND CLADDING MATERIALS FOR PUMP STATION (FLAT ROOF)

ROOF SLOPE	SURFACE	EFFECTIVE WIND AREA (SF)	WIND PRESSURE TOWARD FROM SURFACE (+PSF)	WIND PRESSURE AWAY FROM SURFACE (-PSF)
FLAT to 3°	ZONE 2 ROOF PERIMETER	10 20 50 100	16.0 16.0 16.0 16.0	73.5 57.8 53.1 46.8
	ZONE 3 ROOF CORNER	10 20 50 100	16.0 16.0 16.0 16.0	100.2 68.8 59.3 46.8
N/A	ZONE 4 WALL	10 50 200 500	32.0 28.7 25.9 24.0	34.7 31.4 28.6 26.7
	ZONE 5 WALL CORNERS	10 50 200 500	32.0 28.7 25.9 24.0	42.7 36.1 30.4 26.7

A1 GENERAL NOTES
SCALE: NOT TO SCALE

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CERTIFICATE OF AUTHORIZATION# 0021365

STATE OF NEW YORK · JOHN W. OBLINGER · 082000 · REGISTERED PROFESSIONAL ENGINEER

REGISTRATION EXPIRES: 05/31/2028

ONEIDA COUNTY 1798 NEW YORK

TRIANGLE AREA CIVIL SITE DEVELOPMENT PUMP STATION GRIFFISS INTERNATIONAL AIRPORT ONEIDA COUNTY, ROME, NEW YORK

MARK	DATE	DESCRIPTION

REVISIONS

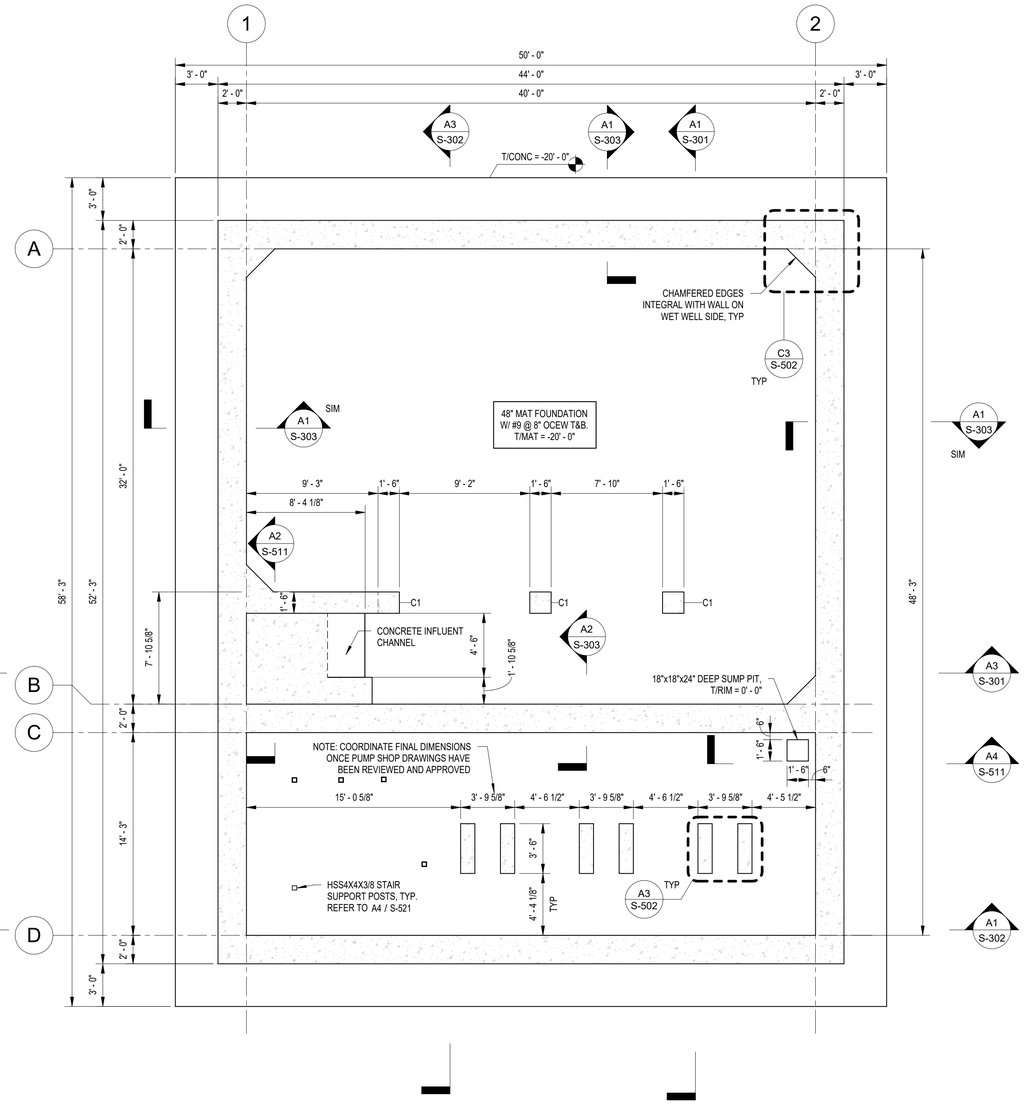
PROJECT NO: 146.205.011
DATE: MARCH 6, 2026
DRAWN BY: M.S.ROLFE, P.E.
DESIGNED BY: M.S.ROLFE, P.E.
CHECKED BY: K.J.SPYTKO, P.E.

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GENERAL NOTES & C&C TABLE

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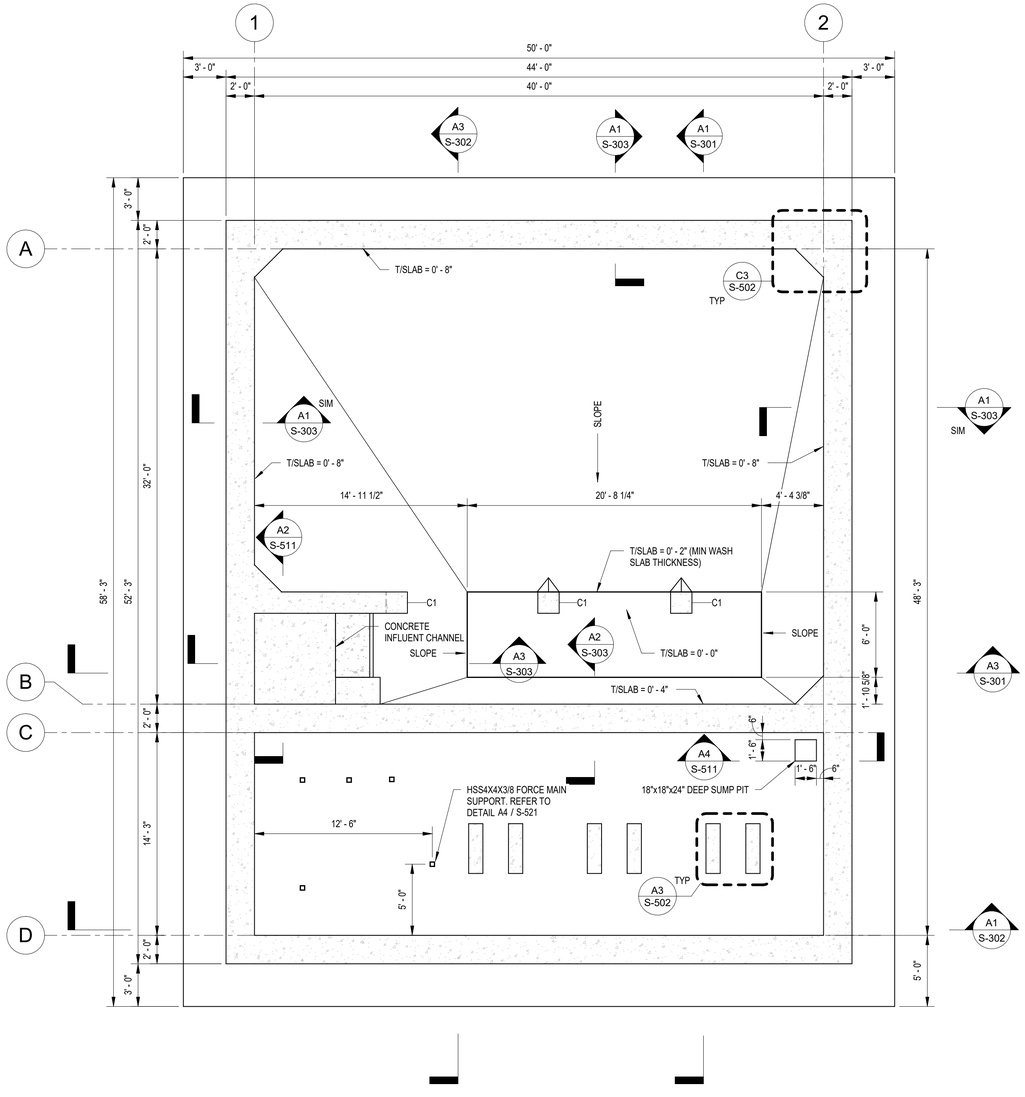
PLAN NOTES:
1. ELEVATIONS ON PLAN REFERENCED FROM TOP OF MAT FOUNDATION = -20' - 0".
2. FINISHED FLOOR ELEVATION = T/CONC = 0' - 0" WHICH EQUALS CIVIL DATUM 481.5FT.
3. NOT ALL OPENINGS SHOWN FOR CLARITY. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PROCESS DRAWINGS FOR LOCATION AND SIZE OF WALL PENETRATIONS NOT SHOWN.
4. MAT FOUNDATION SHALL BE POURED MONOLITHICALLY WITH NO HORIZONTAL CONSTRUCTION JOINTS.
5. PROVIDE 12" NYSDOT TYPE 2 SUBBASE OR 4" LEAN CONCRETE MUD MAT BELOW MAT FOUNDATION.
6. NO VERTICAL CONSTRUCTION JOINTS SHALL BE LOCATED IN WALLS. REFER TO BUILDING SECTIONS FOR PROPOSED LOCATION OF HORIZONTAL CONSTRUCTION JOINTS.

PLAN NORTH

A1 MAT FOUNDATION PLAN

SCALE: 3/16" = 1'-0"

0 4' 8' 12'



PLAN NOTES:
1. ELEVATIONS ON PLAN REFERENCED FROM TOP OF MAT FOUNDATION = -20' - 0".
2. FINISHED FLOOR ELEVATION = T/CONC = 0' - 0" WHICH EQUALS CIVIL DATUM 481.5FT.
3. NOT ALL OPENINGS SHOWN FOR CLARITY. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PROCESS DRAWINGS FOR LOCATION AND SIZE OF PENETRATIONS NOT SHOWN.
4. SLAB SLOPE SHALL BE PROVIDED BY A FIBER REINFORCED WASH SLAB ON TOP OF MAT FOUNDATION. ROUGHEN TOP OF CONCRETE TO RECEIVE WASH SLAB. PROVIDE ADDITIONAL SLOPE AT COLUMNS TO ENSURE THERE ARE NO HARD CORNERS FOR SOLIDS TO COLLECT.

PLAN NORTH

A2 SLAB PLAN

SCALE: 3/16" = 1'-0"

0 4' 8' 12'

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CERTIFICATE OF AUTHORIZATION# 0021365

STATE OF NEW YORK JOHN W. OBLINGER 082000 LICENSED PROFESSIONAL ENGINEER

REGISTRATION EXPIRES: 05/31/2028

ONEIDA COUNTY 1798 NEW YORK

TRIANGLE AREA CIVIL SITE DEVELOPMENT PUMP STATION GRIFFISS INTERNATIONAL AIRPORT ONEIDA COUNTY, ROME, NEW YORK

MARK	DATE	DESCRIPTION
REVISIONS		

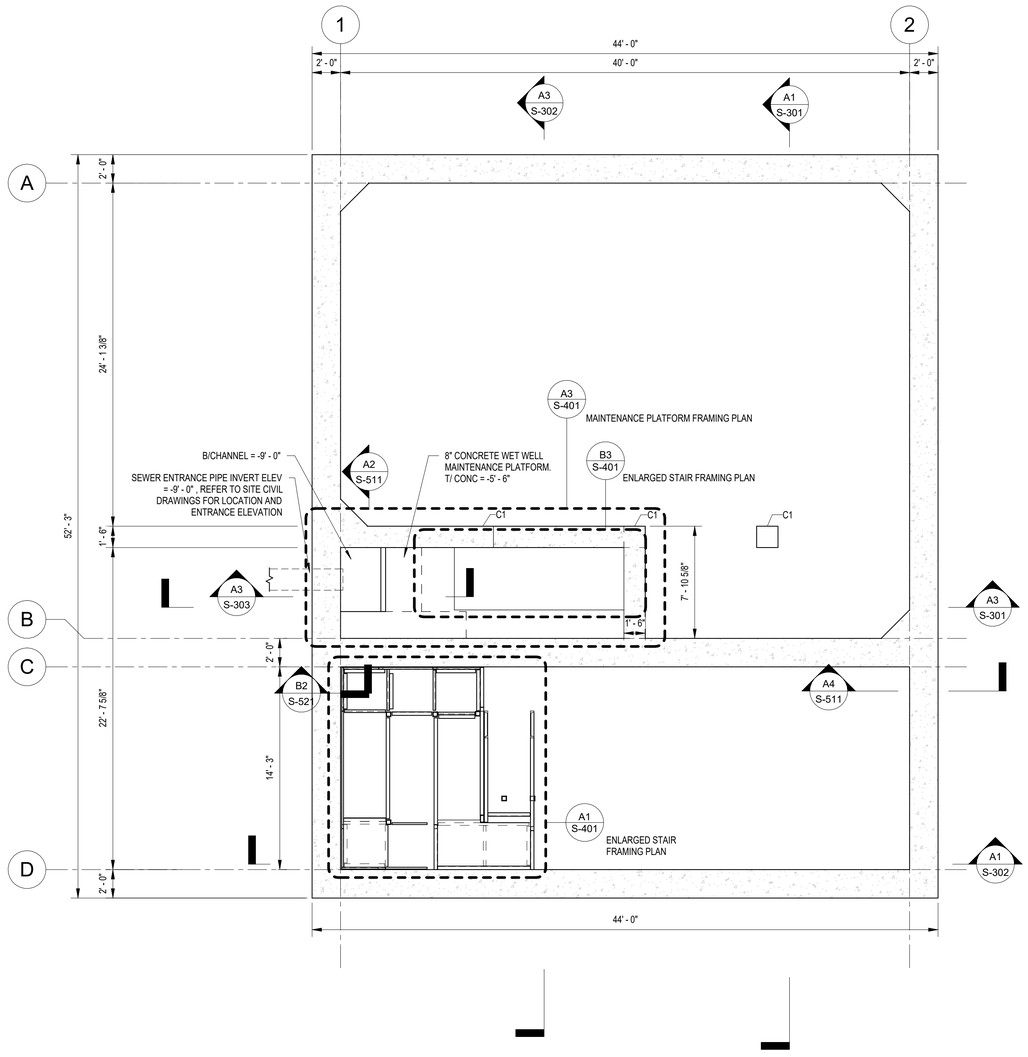
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MAT FOUNDATION & SLAB PLAN

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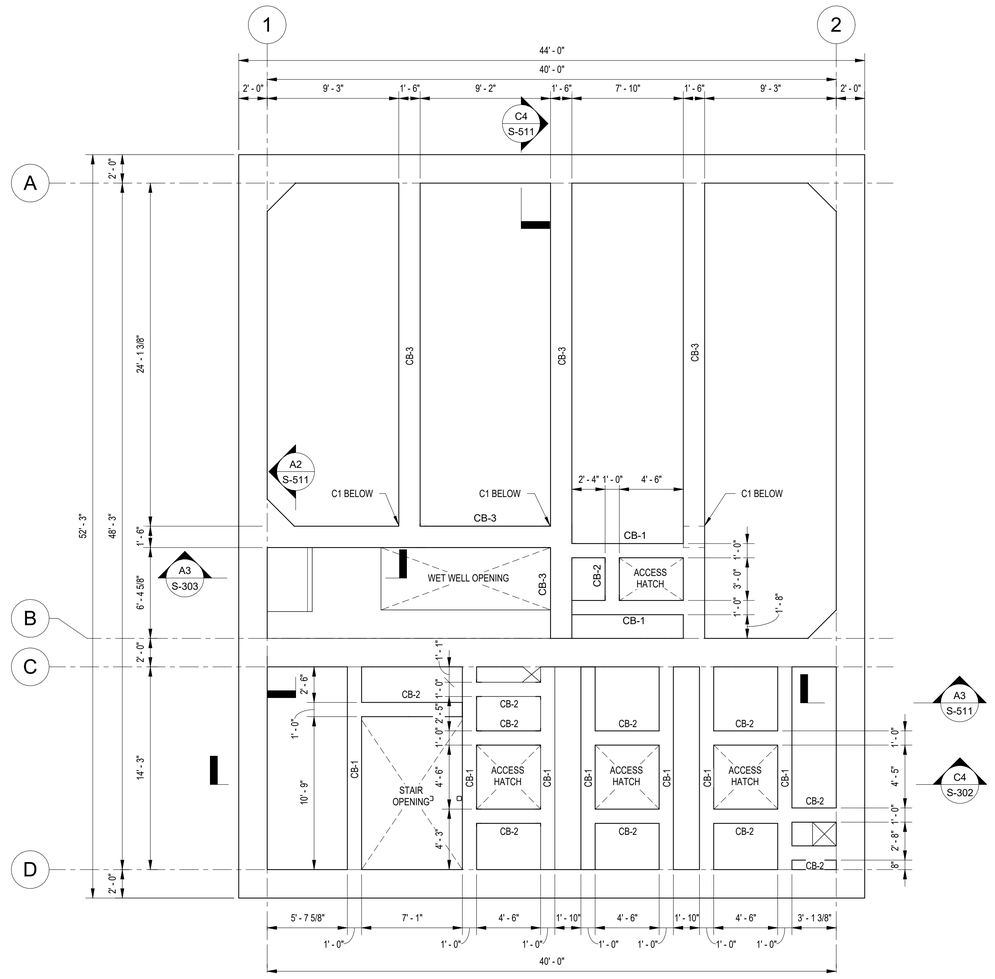
1. ELEVATIONS ON PLAN REFERENCED FROM T/CONC = 0' - 0".
2. FINISHED FLOOR ELEVATION = T/CONC = 0' - 0" WHICH EQUALS CIVIL DATUM 481.5FT.
3. NOT ALL OPENINGS SHOWN FOR CLARITY. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PROCESS DRAWINGS FOR LOCATION AND SIZE OF PENETRATIONS NOT SHOWN.
4. CB-_ DEFINES CONCRETE BEAM TYPE. REFER TO SHEET S-512 AND 5-13 FOR BEAM SCHEDULE AND DETAILS.
5. C-_ DEFINES COLUMN TYPE. REFER TO SHEET S-513 FOR COLUMN DETAILS.
6. EMBEDDED PLATES ARE REQUIRED AT STAIR FRAMING CONNECTION - SEE ENLARGED FRAMING PLANS. COORDINATE FINAL EMBED PLATE LOCATIONS WITH APPROVED STAIR SHOP DRAWINGS.

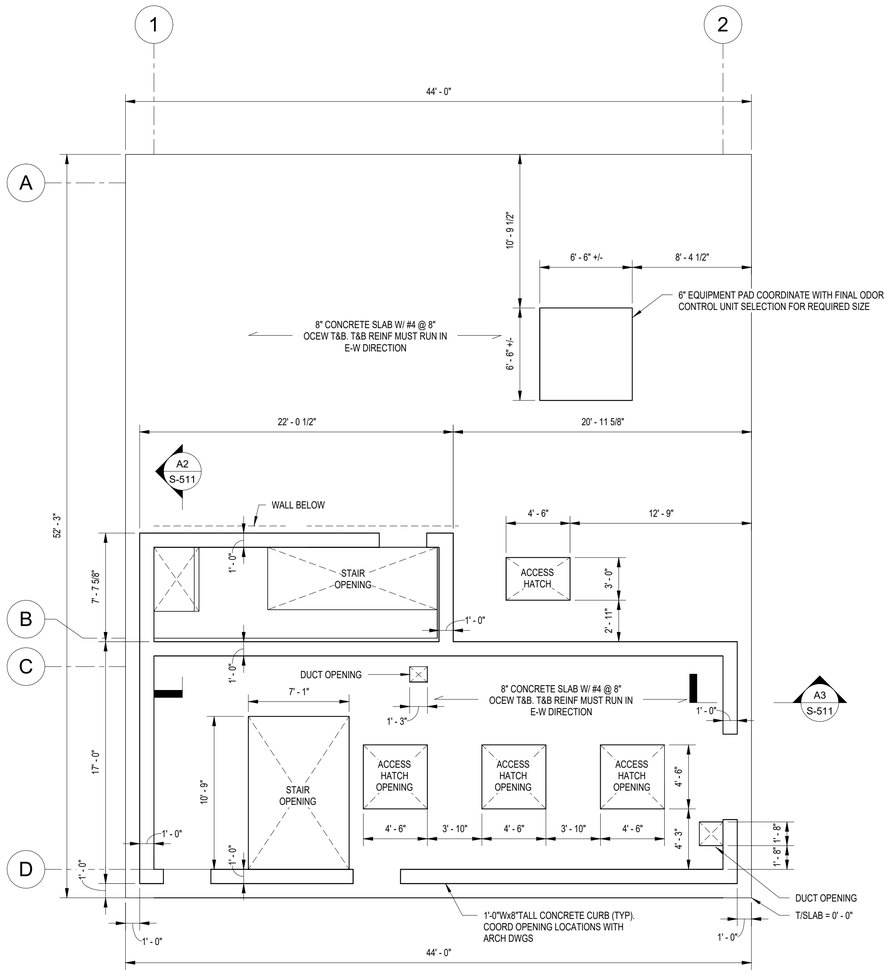
PLAN NORTH

A1 ACCESS FRAMING PLAN

SCALE: 3/16" = 1'-0"

0 4' 8' 12'


1
2
44' - 0"
40' - 0"
2' - 0"
9' - 3"
1' - 6"
9' - 2"
1' - 6"
7' - 10"
1' - 6"
9' - 3"
2' - 0"
C4
S-511
A
B
C
D
2' - 0"
24' - 1 3/8"
52' - 3"
48' - 3"
1' - 6"
6' - 4 5/8"
2' - 0"
14' - 3"
2' - 0"
CB-3
CB-3
CB-3
A2
S-511
C1 BELOW
C1 BELOW
C1 BELOW
CB-3
2' - 4"
1' - 0"
4' - 6"
CB-1
A3
S-303
WET WELL OPENING
CB-3
CB-2
ACCESS HATCH
CB-1
1' - 0"
3' - 0"
1' - 0"
1' - 8"
2' - 6"
1' - 0"
10' - 9"
CB-1
CB-2
CB-2
CB-2



PLAN NOTES:

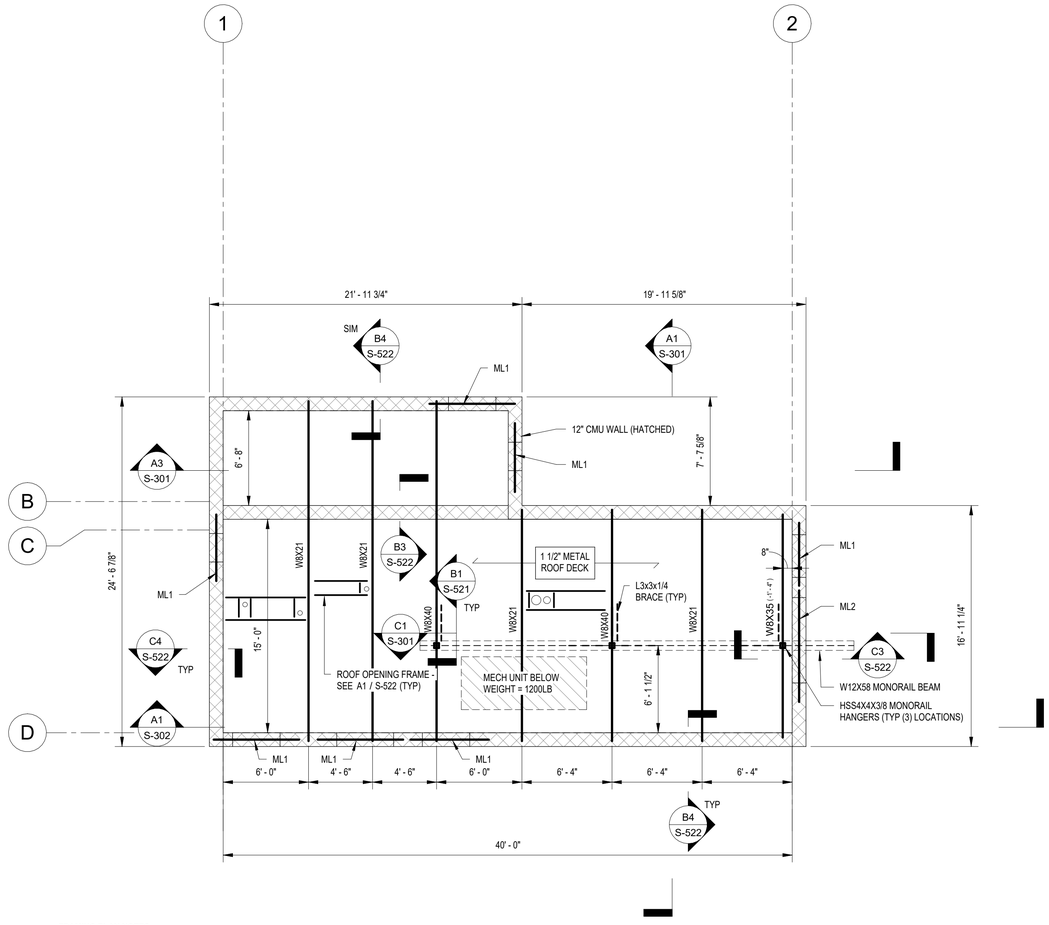
1. FINISHED FLOOR = T/CONC = 0' - 0" REFERENCED FROM CIVIL DATUM 481.5FT.
2. NOT ALL OPENINGS SHOWN FOR CLARITY. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PROCESS DRAWINGS FOR LOCATION AND SIZE OF PENETRATIONS NOT SHOWN.
3. REFER TO ARCHITECTURAL DRAWINGS FOR CMU WALL DETAILS.
4. REFER TO ARCHITECTURAL FOR INTERIOR AND EXTERIOR ACCESS HATCH DETAILS.
5. OUTERMOST LAYERS OF REINFORCEMENT FOR THE 8" STRUCTURAL SLAB SHALL BE PLACED PARALLEL TO THE PLAN EAST-WEST DIRECTION
6. COORDINATE REQUIRED EMBEDS AT ACCESS HATCH OPENINGS.
7. ALL CONCRETE BEAMS AND TOP SLAB SHALL BE POURED MONOLITHICALLY. REFER TO BUILDING SECTIONS FOR PROPOSED JOINT LOCATIONS.

PLAN NORTH

A1 CONTROL ROOM SLAB PLAN

SCALE: 3/16" = 1'-0"

0 4' 8' 12'



FRAMING PLAN NOTES:

1. T/STEEL = 17' - 4" UNO
2. ALL STEEL TO BE HOT DIP GALVANIZED AFTER FABRICATION. TOUCH UP DAMAGED LOCATIONS WITH APPROVED COLD GALV COATING.
3. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR ADDITIONAL DETAILS REGARDING REQUIRED ROOF OPENINGS.
4. ML DESIGNATES A LOAD BEARING MASONRY LINTEL. SEE SHEET S-501.
5. FOR BEARING PLATE DETAILS, SEE SHEET S-501. UNLESS NOTED OTHERWISE, PROVIDE BP1 AT ALL STEEL BEAM CONNECTIONS TO CMU.
6. SEE SECTIONS FOR CONTINUOUS STEEL ANGLES AND ANCHORAGES REQUIRED AT EDGES OF ROOF DECK.
7. SEE SHEET S-522 FOR STEEL FRAME REQUIRED AT ALL ROOF OPENINGS.
8. METAL ROOF DECK TO BE 1 1/2" x20 GA WIDE RIB METAL DECK (GALV). ATTACHMENT TO STRUCTURE SHALL BE AS FOLLOWS:
   A. PRIMARY ATTACHMENT TO STRUCTURAL FRAMING: 6" OC (36/7) USING 5/8" PUDDLE WELDS
   B. SIDE LAP ATTACHMENT: #10 TEK SCREWS AT 30"OC MAX
   C. ALL EDGE CONNECTIONS TO STRUCTURAL STEEL (INCLUDING LEDGER ANGLES) SHALL BE PROVIDED AT 6"OC USING 5/8" PUDDLE WELDS

PLAN NORTH

A3 ROOF FRAMING PLAN

SCALE: 3/16" = 1'-0"

0 4' 8' 12'

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REGISTRATION EXPIRES: 05/31/2028

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MARK	DATE	DESCRIPTION

REVISIONS

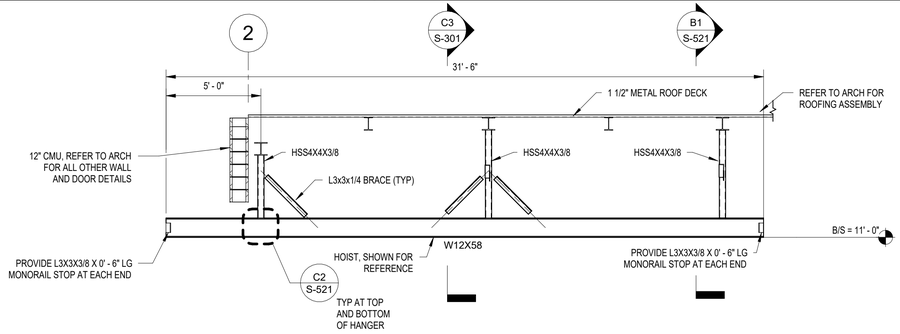
PROJECT NO:	146.205.011
DATE:	MARCH 6, 2026
DRAWN BY:	M.S.ROLFE, P.E.
DESIGNED BY:	M.S.ROLFE, P.E.
CHECKED BY:	K.J.SPYTKO, P.E.

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CONTROL ROOM & ROOF FRAMING PLANS

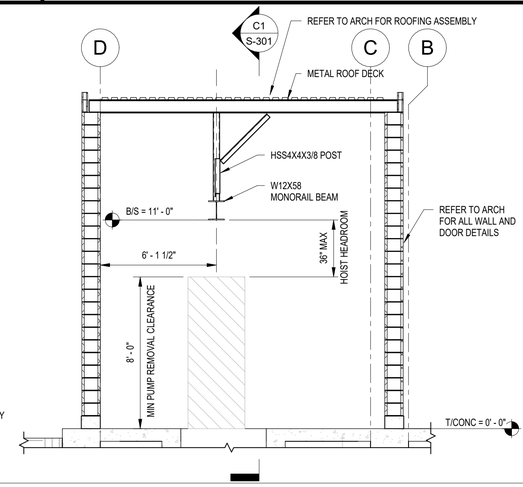
S-103

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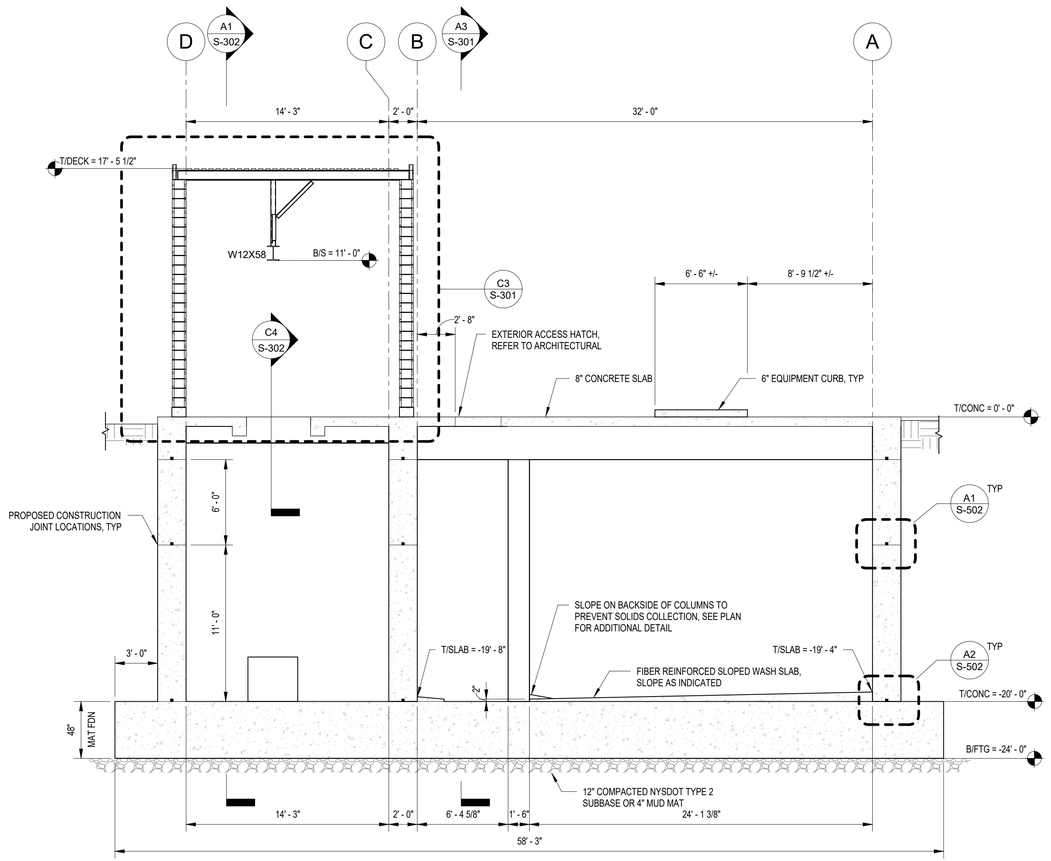
NOTES:
1. MONORAIL CAPACITY TO BE CLEARLY POSTED ON HOIST BEAM
2. ALL STEEL TO BE HOT-DIP GALVANIZED AFTER FABRICATION. TOUCH UP DAMAGED AREAS USING APPROVED COLD GALVANIZING COATING.
3. FURNISH AND INSTALL ELECTRIC 3-TON RATED SINGLE SPEED HOIST WITH SINGLE SPEED MOTORIZED TROLLEY WITH CHAIN LIFT. PROVIDE BASIS OF DESIGN HARRINGTON (N)ERM030C-L/S HOIST OR APPROVED EQUAL.
   A. HOIST AND TROLLEY MOTOR SHALL BE 480/277V 3 PHASE.
   B. CHAIN LENGTH = 28FT

C1 MONORAIL ELEVATION
SCALE: 1/4" = 1'-0"



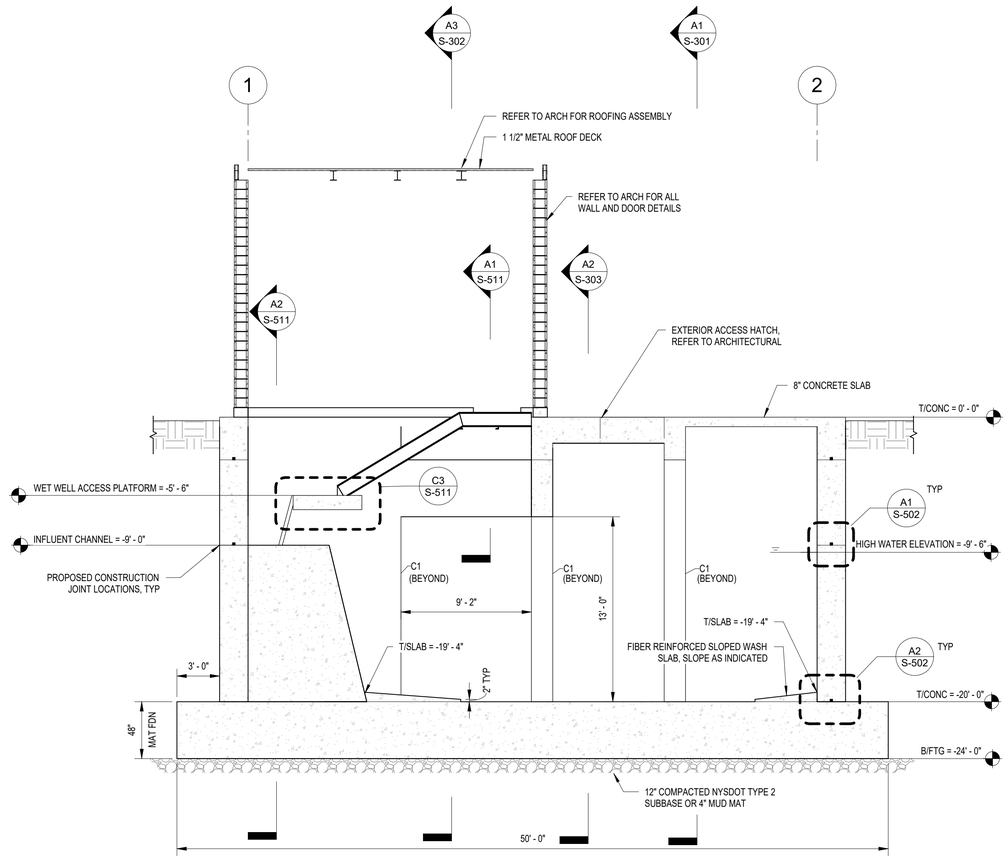
NOTES:
1. MONORAIL CAPACITY TO BE CLEARLY POSTED ON HOIST BEAM
2. ALL STEEL TO BE HOT-DIP GALVANIZED AFTER FABRICATION. TOUCH UP DAMAGED AREAS USING APPROVED COLD GALVANIZING COATING.
3. FURNISH AND INSTALL ELECTRIC 3-TON RATED SINGLE SPEED HOIST WITH SINGLE SPEED MOTORIZED TROLLEY WITH CHAIN LIFT. PROVIDE BASIS OF DESIGN HARRINGTON (N)ERM030C-L/S HOIST OR APPROVED EQUAL.
   A. HOIST AND TROLLEY MOTOR SHALL BE 480/277V 3 PHASE.
   B. CHAIN LENGTH = 28FT

C3 MONORAIL SECTION
SCALE: 1/4" = 1'-0"



NOTES:
1. T/CONC = 0' - 0" = CIVIL DATUM 481.5FT.
2. REFER TO MP SERIES DRAWINGS FOR ADDITIONAL INFORMATION ON HIGH AND LOW WATER LEVELS, INFLUENT CHANNEL BAR RACK, AND PIPE LOCATIONS.
3. CONCRETE REINFORCING STEEL NOT SHOWN FOR CLARITY.

A1 BUILDING SECTION
SCALE: 3/16" = 1'-0"



NOTES:
1. T/CONC = 0' - 0" = CIVIL DATUM 481.5FT.
2. REFER TO MP SERIES DRAWINGS FOR ADDITIONAL INFORMATION ON HIGH AND LOW WATER LEVELS, INFLUENT CHANNEL BAR RACK, AND PIPE LOCATIONS.
3. CONCRETE REINFORCING STEEL NOT SHOWN FOR CLARITY.

A3 WET WELL ACCESS SECTION
SCALE: 3/16" = 1'-0"

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CERTIFICATE OF AUTHORIZATION# 0021365

STATE OF NEW YORK
JOHN W. OBLINGER
LICENSED PROFESSIONAL ENGINEER
082009

REGISTRATION EXPIRES: 05/31/2028

ONEIDA COUNTY 1798 NEW YORK

TRIANGLE AREA CIVIL SITE DEVELOPMENT PUMP STATION GRIFFISS INTERNATIONAL AIRPORT ONEIDA COUNTY, ROME, NEW YORK

MARK	DATE	DESCRIPTION
REVISIONS		

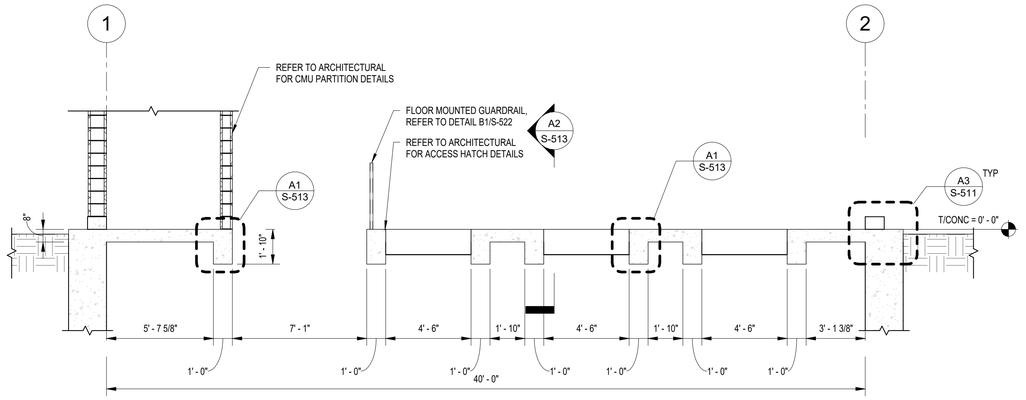
PROJECT NO:	146.205.011
DATE:	MARCH 6, 2026
DRAWN BY:	M.S.ROLFE, P.E.
DESIGNED BY:	M.S.ROLFE, P.E.
CHECKED BY:	K.J.SPYTKO, P.E.

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SECTIONS & ELEVATIONS

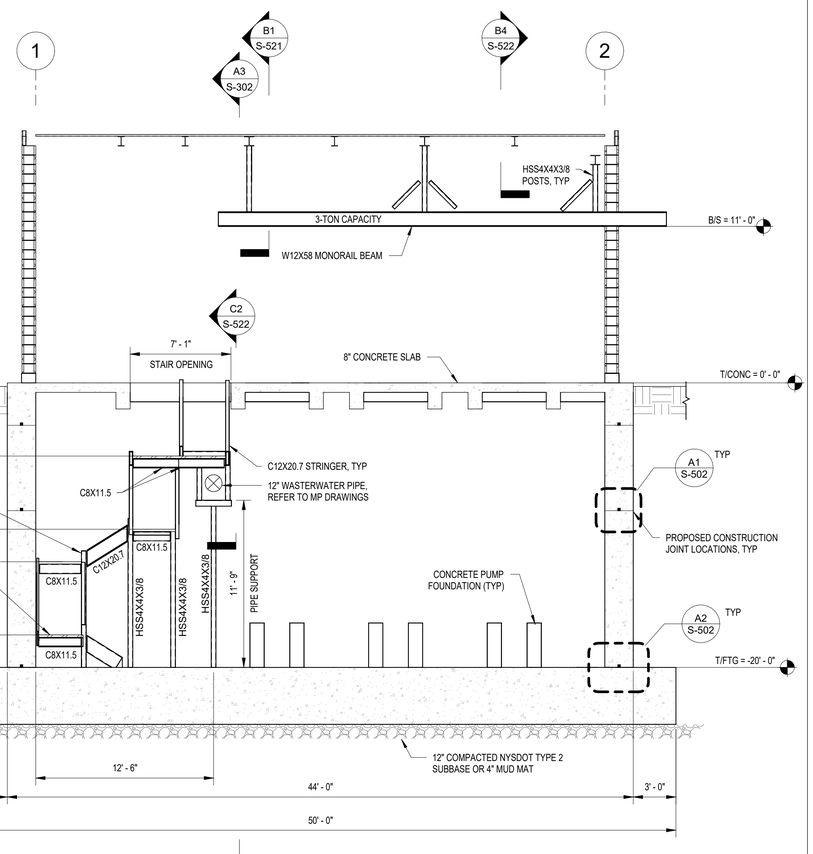
S-301

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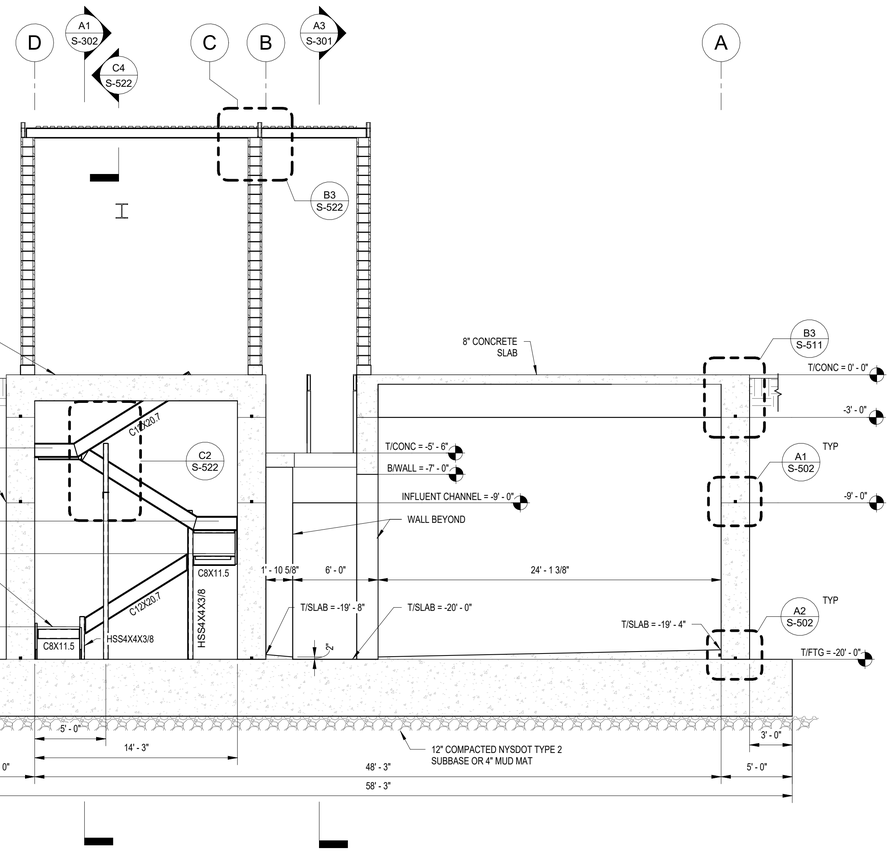
NOTES:
1. CONCRETE REINFORCING STEEL NOT SHOWN FOR CLARITY.

C4 CONTROL ROOM FLOOR SECTION
SCALE: 1/4" = 1'-0"



NOTES:
1. ALL STRUCTURAL STEEL IS TO BE HOT DIP GALVANIZED, INCLUDING ROOF FRAMING MEMBERS, STAIR FRAMING, AND MONORAIL BEAM AND SUPPORTS.
2. COORDINATE REQUIRED ELEVATION OF PUMP BASE SUPPORTS WITH PUMP MANUFACTURER AND MECHANICAL PROCESS DRAWINGS.
3. CONCRETE REINFORCING STEEL NOT SHOWN FOR CLARITY.

A1 DRY WELL SECTION
SCALE: 3/16" = 1'-0"



NOTES:
1. ALL STRUCTURAL STEEL IS TO BE HOT DIP GALVANIZED, INCLUDING ROOF FRAMING MEMBERS, STAIR FRAMING, AND MONORAIL BEAM AND SUPPORTS.
2. COORDINATE REQUIRED ELEVATION OF PUMP BASE SUPPORTS WITH PUMP MANUFACTURER AND MECHANICAL PROCESS DRAWINGS.
3. CONCRETE REINFORCING STEEL NOT SHOWN FOR CLARITY.

A3 BUILDING SECTION
SCALE: 3/16" = 1'-0"

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REGISTRATION EXPIRES: 05/31/2028

ONEIDA COUNTY 1798 NEW YORK

TRIANGLE AREA CIVIL SITE DEVELOPMENT PUMP STATION GRIFFISS INTERNATIONAL AIRPORT ONEIDA COUNTY, ROME, NEW YORK

MARK	DATE	DESCRIPTION
REVISIONS		

PROJECT NO:	146.205.011
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DESIGNED BY:	M.S.ROLFE, P.E.
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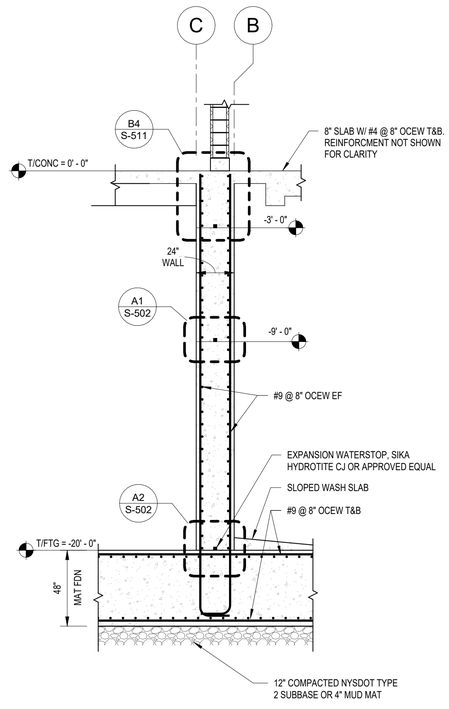
SECTIONS & ELEVATIONS

S-302

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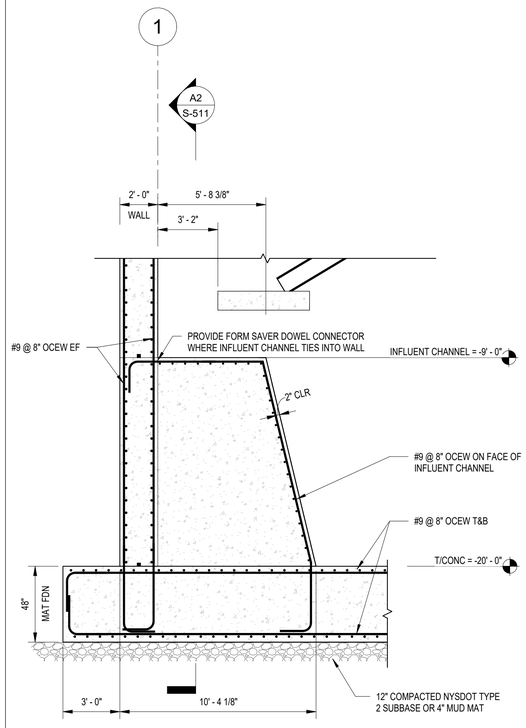
A1 TYPICAL EXTERIOR WALL SECTION

SCALE: 1/4" = 1'-0"



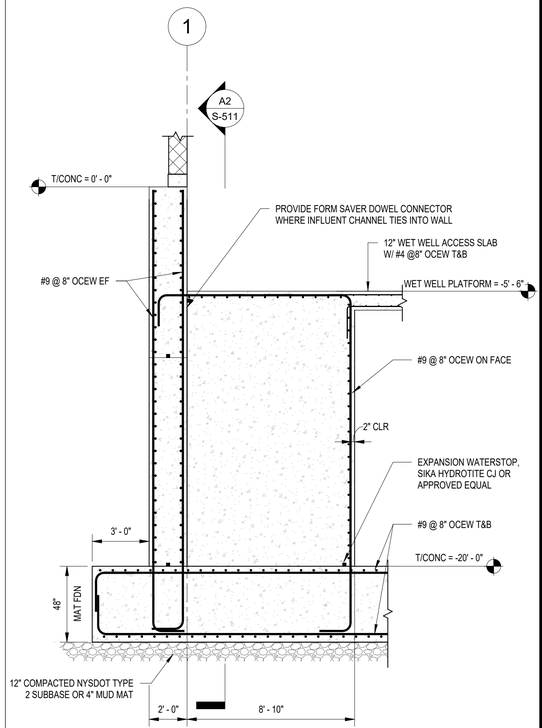
A2 TYPICAL INTERIOR WALL SECTION

SCALE: 1/4" = 1'-0"



A3 INFLUENT CHANNEL SECTION

SCALE: 1/4" = 1'-0"



A4 WET WELL SECTION - EW

SCALE: 1/4" = 1'-0"

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REGISTRATION EXPIRES: 05/31/2028

ONEIDA COUNTY 1798 NEW YORK

TRIANGLE AREA CIVIL SITE DEVELOPMENT PUMP STATION GRIFFISS INTERNATIONAL AIRPORT ONEIDA COUNTY, ROME, NEW YORK

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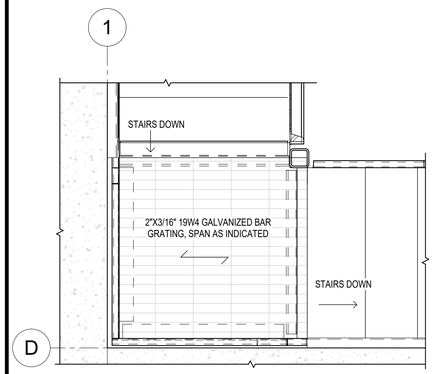
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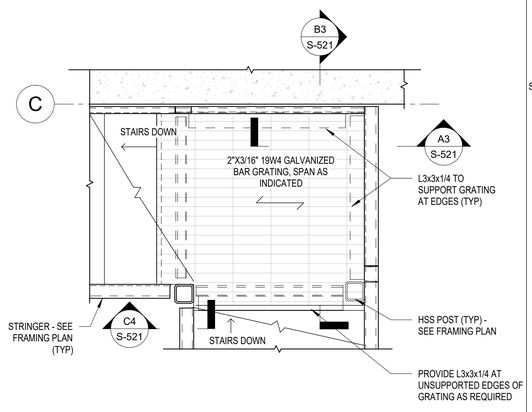
SECTIONS & DETAILS

S-303

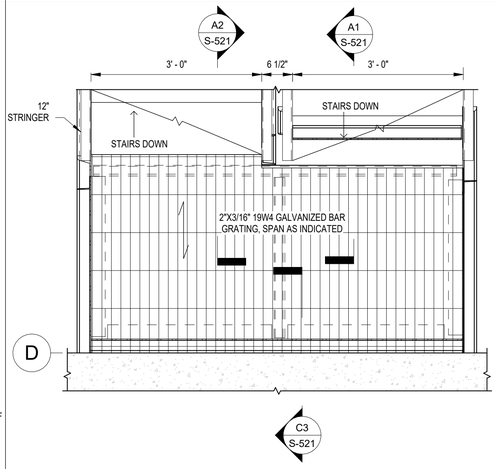
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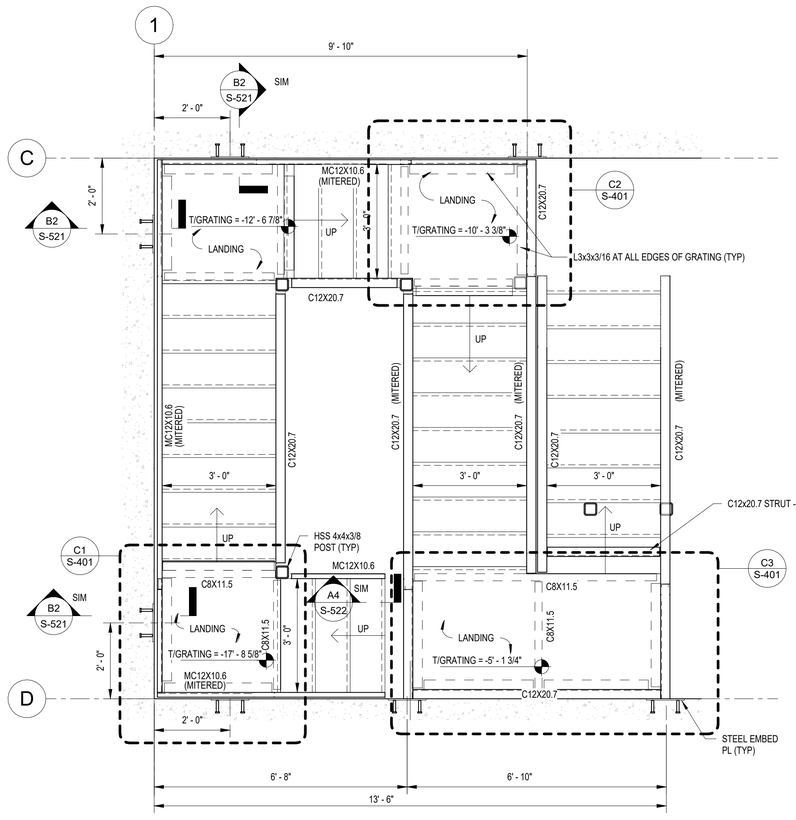
C1 STAIR LANDING PLAN
SCALE: 3/4" = 1'-0"



C2 STAIR LANDING PLAN
SCALE: 3/4" = 1'-0"



C3 STAIR LANDING PLAN
SCALE: 3/4" = 1'-0"

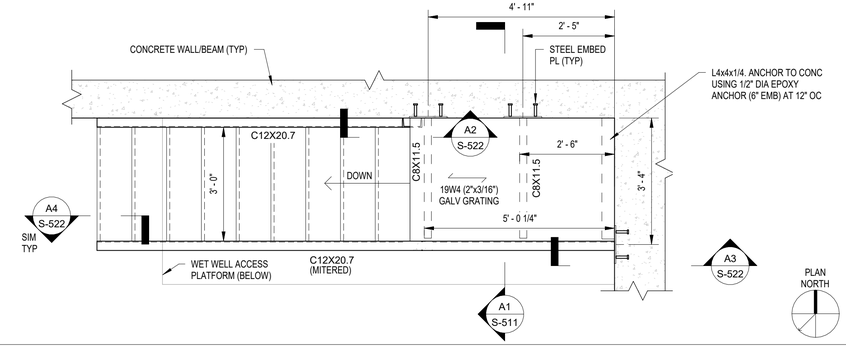


NOTES:
1. COORDINATE FINAL EMBED PLATE LOCATIONS WITH APPROVED STAIR SHOP DRAWINGS.
2. SEE ARCH DRAWINGS FOR ADDITIONAL STAIR DETAILS AND DIMENSIONS.
3. ALL STEEL TO BE HOT-DIP GALVANIZED. REPAIR ALL DAMAGED AREAS OF GALVANIZING WITH APPROVED COLD GALVANIZING PRODUCT

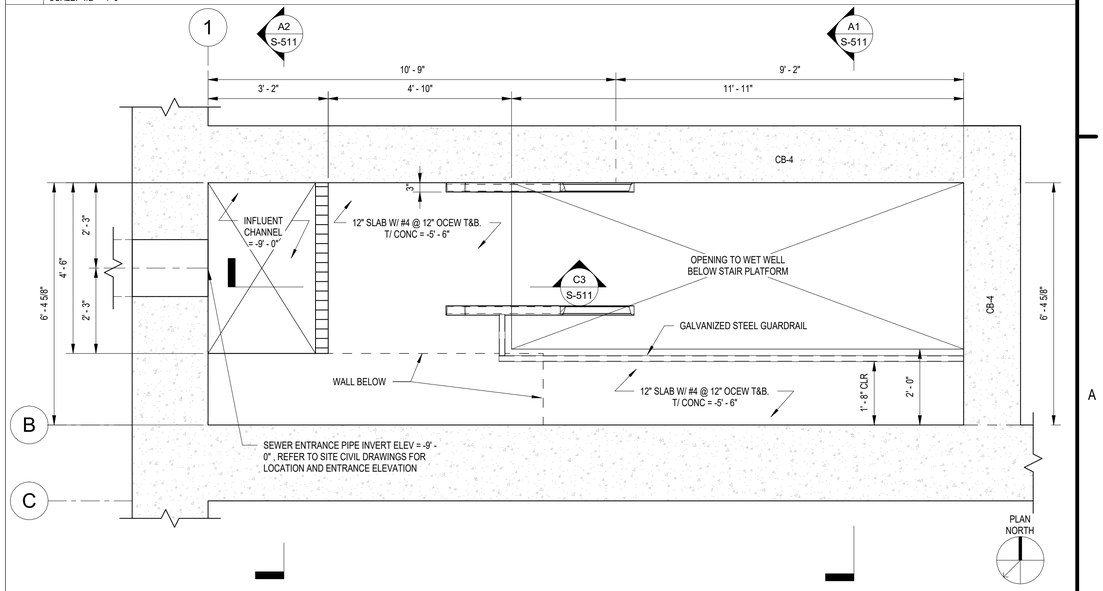
PLAN NORTH

A1 ENLARGED STAIR FRAMING PLAN
SCALE: 1/2" = 1'-0"

0 1' 2' 4'



B3 WET WELL ACCESS STAIR FRAMING PLAN
SCALE: 1/2" = 1'-0"



A3 WET WELL ACCESS PLATFORM
SCALE: 1/2" = 1'-0"

0 4' 8' 16'

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ONEIDA COUNTY 1798 NEW YORK

TRIANGLE AREA CIVIL SITE DEVELOPMENT PUMP STATION GRIFFISS INTERNATIONAL AIRPORT ONEIDA COUNTY, ROME, NEW YORK

MARK	DATE	DESCRIPTION
REVISIONS		

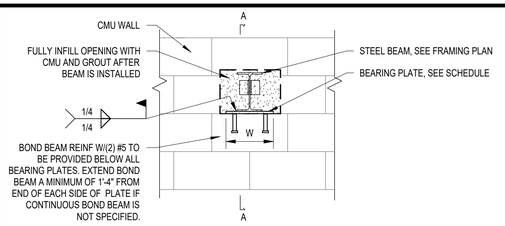
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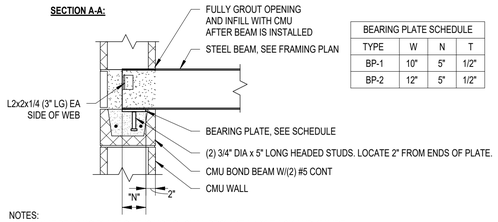
ENLARGED PLANS

S-401

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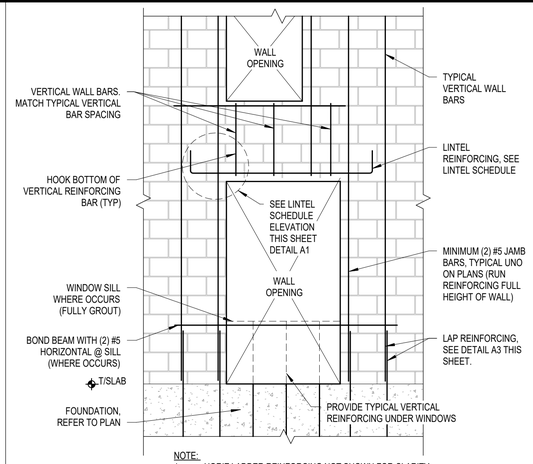
SECTION A-A:



BEARING PLATE SCHEDULE			
TYPE	W	N	T
BP-1	10"	5"	1/2"
BP-2	12"	5"	1/2"

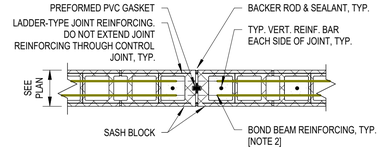
NOTES:
1) IF BEARING PLATE SIZE IS NOT SHOWN, PROVIDE A 1/2" THICK AND 4" WIDE PLATE, WITH LENGTH AT LEAST 2" GREATER THAN THE BEAM FLANGE WIDTH.

C1 CMU BEARING PLATE DETAIL
SCALE: 3/4" = 1'-0"



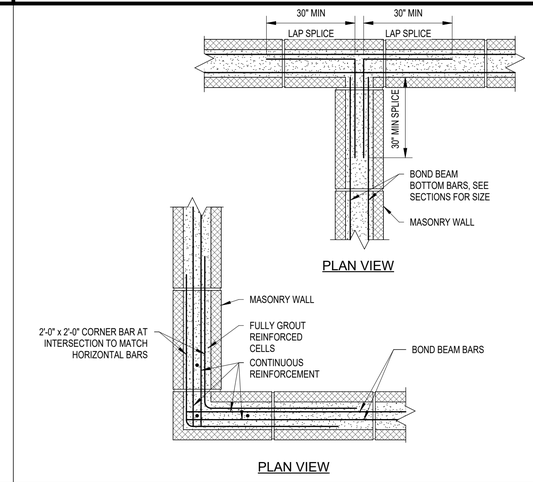
NOTE:
1. HORIZ LADDER REINFORCING NOT SHOWN FOR CLARITY.

C2 CMU WALL ELEVATION REINF DETAIL
SCALE: 3/4" = 1'-0"



NOTES:1) SEE PLAN FOR CONTROL JOINT LOCATIONS. IF NOT SHOWN, JOINT SPACING SHALL BE LESSER OF 25'-0" AND 2x WALL HEIGHT.
2) UNLESS OTHERWISE NOTED, BOND BEAM REINFORCING FOR BOND BEAMS AT FLOOR OR ROOF LEVELS IS CONTINUOUS AND REINFORCING FOR INTERMEDIATE BOND BEAMS BETWEEN LEVELS IS NOT CONTINUOUS THROUGH CONTROL JOINTS.

C3 CMU CONTROL JOINT
SCALE: 3/4" = 1'-0"

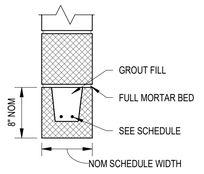


C4 CMU BOND BEAM T & CORNER REINF
SCALE: 1" = 1'-0"

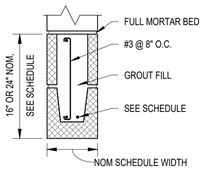
CMU LINTEL SCHEDULE (LOAD BEARING)		
CMU LINTEL DESIGNATION	NOMINAL LINTEL SIZE	REINFORCING
ML1	12x16	2 - #6 BOT
ML2	12x24	2 - #6 BOT

LOAD BEARING LINTEL SCHEDULE NOTES:

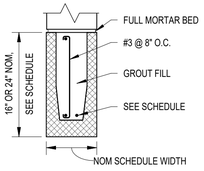
1. SEE FRAMING PLANS FOR LOCATIONS OF LINTELS.
2. PROVIDE 16" OF BEARING AT EACH JAMB. REINFORCEMENT SHALL PROJECT A MINIMUM OF 16" ONTO THE BEARING.
3. MINIMUM MASONRY COMPRESSIVE STRENGTH OF GROUTED PRISM, fm=2150 PSI.
4. LINTELS SCHEDULED MAY BE EITHER TYPE B OR TYPE C AS DETAILED.
5. 8 x 16 = NOMINAL WIDTH x MIN. DEPTH OF LINTEL.



TYPE A



TYPE B

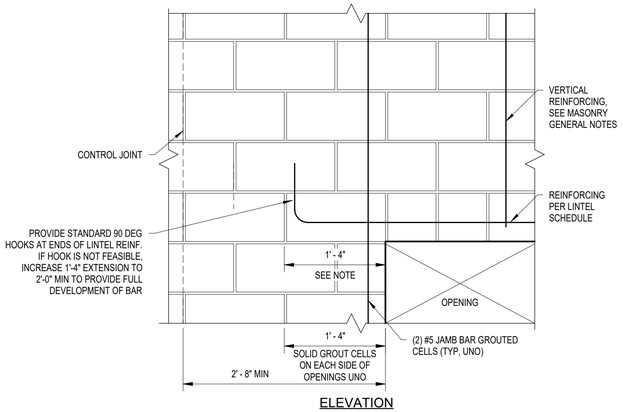


TYPE C

CMU LINTEL SCHEDULE (NON-LOAD BEARING)			
CLEAR SPAN	REINFORCING REQUIREMENTS IN NOMINAL LINTEL SECTION (UNO)		
[ft-in]	8x8	8x16	8x24
3-4	2 - #5	N/A	N/A
4-0	2 - #5	N/A	N/A
4-8	N/A	2 - #5	N/A
5-4	N/A	2 - #5	N/A
6-0	N/A	2 - #5	N/A
6-8	N/A	2 - #5	N/A
7-4	N/A	2 - #5	N/A
8-0	N/A	N/A	2 - #6 T&B
8-8	N/A	N/A	2 - #6 T&B
9-4	N/A	N/A	2 - #6 T&B
10-0	N/A	N/A	2 - #6 T&B
12-0	N/A	N/A	2 - #6 T&B

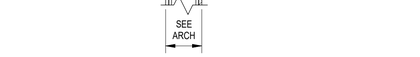
NON-LOAD BEARING LINTEL SCHEDULE NOTES:

1. SEE ARCHITECTURAL DWGS FOR SIZE AND LOCATION OF OPENINGS.
2. PROVIDE 16" OF BEARING AT EACH JAMB. REINFORCEMENT SHALL PROJECT A MINIMUM OF 16" ONTO THE BEARING.
3. MINIMUM MASONRY COMPRESSIVE STRENGTH OF GROUTED PRISM, f'm=2150 PSI.
4. LINTELS SCHEDULED AS 16" OR 24" HIGH MAY BE EITHER TYPE B OR TYPE C AS DETAILED.
5. 8 x 16 = NOMINAL WIDTH x MIN. DEPTH OF LINTEL.



ELEVATION

A1 CMU LINTEL SCHEDULE
SCALE: 1" = 1'-0"



B3 CMU WALL INTERSECTION WITH CONTROL JOINT DETAIL
SCALE: 3/4" = 1'-0"



NOTES:

1. TYPICAL CMU WALL REINFORCEMENT TO BE AS SHOWN ON PLAN OR WITHIN REINFORCED MASONRY NOTES IN ADDITION TO THE CONDITIONS SHOWN ABOVE.

B4 TYPICAL MASONRY REINFORCED WALL DETAILS
SCALE: 3/4" = 1'-0"

BAR SIZE	REQUIRED LAP SPLICE LENGTH (INCHES)								
	F'm = 2000 psi			F'm = 2500 psi			F'm = 3000 psi		
	8 IN. CENTER	12 IN. CENTER	2 IN. COVER	8 IN. CENTER	12 IN. CENTER	2 IN. COVER	8 IN. CENTER	12 IN. CENTER	2 IN. COVER
No. 3	12	12	13	12	12	12	12	12	12
No. 4	13	12	22	12	12	20	12	12	18
No. 5	20	13	35	18	12	31	16	12	28
No. 6	38	24	64 [54]	34	21	58 [54]	31	20	53
No. 7	52	33	87 [63]	47	29	78 [63]	42	27	71 [63]
No. 8	79 [72]	50	131 [72]	71	45	117 [72]	65	41	107 [72]
No. 9	-	64	167 [81]	-	57	149 [81]	-	52	136 [81]
No. 10	-	82	211 [90]	-	73	189 [90]	-	67	173 [90]
No. 11	-	102 [99]	261 [99]	-	92	233 [99]	-	84	213 [99]

NOTE: VALUES IN SQUARE BRACKETS ARE 72db, THE 2018 IBC REQUIREMENT. VALUES ARE ONLY GIVEN IF LESS THAN TMS 402.

A3 MASONRY REINFORCEMENT DEVELOPMENT AND SPLICE LENGTHS
SCALE: 12" = 1'-0"

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CERTIFICATE OF AUTHORIZATION# 0021365

STATE OF NEW YORK JOHN W. OBLINGER 082000 REGISTERED PROFESSIONAL ENGINEER

REGISTRATION EXPIRES: 05/31/2028

ONEIDA COUNTY 1798 NEW YORK

TRIANGLE AREA CIVIL SITE DEVELOPMENT PUMP STATION GRIFFISS INTERNATIONAL AIRPORT ONEIDA COUNTY, ROME, NEW YORK

MARK	DATE	DESCRIPTION
REVISIONS		

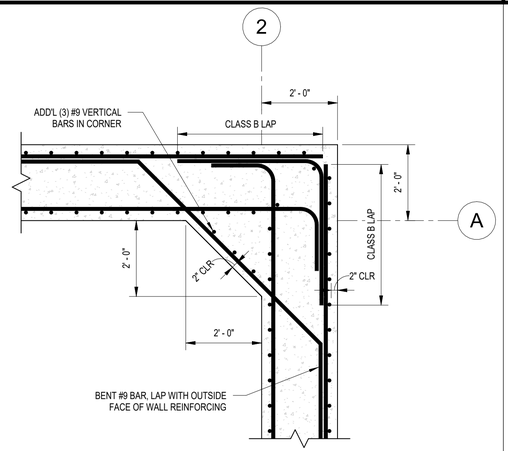
PROJECT NO:	146.205.011
DATE:	MARCH 6, 2026
DRAWN BY:	M.S.ROLFE, P.E.
DESIGNED BY:	M.S.ROLFE, P.E.
CHECKED BY:	K.J.SPYTKO, P.E.

NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK EDUCATION LAW

TYPICAL DETAILS

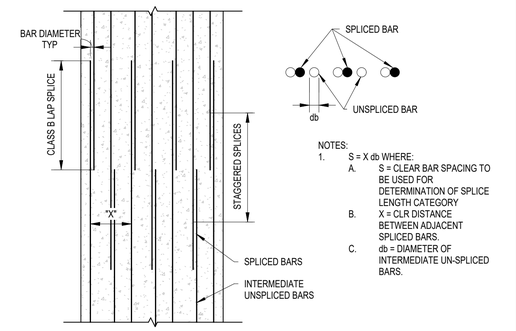
S-501

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C3 TANK CORNER REINFORCING DETAIL

SCALE: NOT TO SCALE

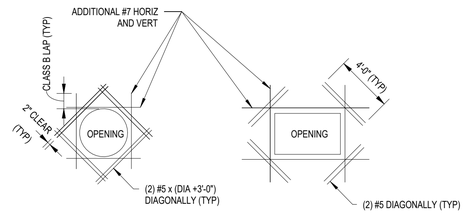


NOTES:
1. S = X db WHERE:
   - A. S = CLEAR BAR SPACING TO BE USED FOR DETERMINATION OF SPLICE LENGTH CATEGORY
   - B. X = CLR DISTANCE BETWEEN ADJACENT SPLICED BARS.
   - C. db = DIAMETER OF INTERMEDIATE UN-SPLICED BARS.

ELEVATION VIEW

C4 TYP COLUMN LAP SPLICE DETAIL

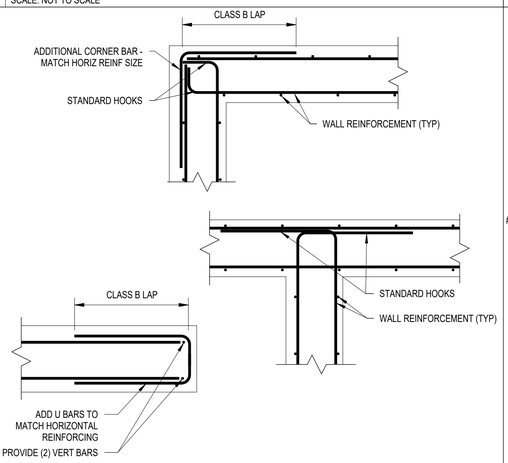
SCALE: NOT TO SCALE



NOTES:
1. DETAIL IS APPLICABLE FOR WALLS WITH OPENINGS GREATER THAN 6" IN ANY DIRECTION.
2. PLACE BARS AT EACH FACE FOR WALLS WITH (2) LAYERS OF REINFORCING.
3. REFER TO ARCHITECTURAL, CIVIL, AND MEP DRAWINGS FOR LOCATION AND SIZE OF SLEEVES.
4. REFER TO A1/MP-501 FOR DETAILS ON MODULAR LINK SEAL FOR PROCESS PIPE PENETRATIONS.

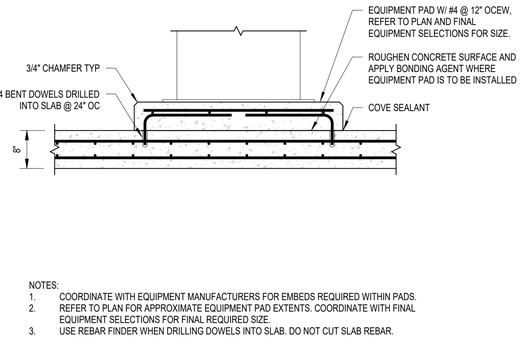
B2 WALL OPENING REINFORCING DETAIL

SCALE: NOT TO SCALE



B3 TYPICAL WALL INTERSECTION DETAILS

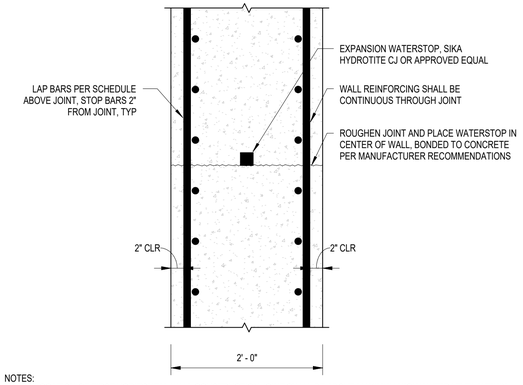
SCALE: NOT TO SCALE



NOTES:
1. COORDINATE WITH EQUIPMENT MANUFACTURERS FOR EMBEDS REQUIRED WITHIN PADS.
2. REFER TO PLAN FOR APPROXIMATE EQUIPMENT PAD EXTENTS. COORDINATE WITH FINAL EQUIPMENT SELECTIONS FOR FINAL REQUIRED SIZE.
3. USE REBAR FINDER WHEN DRILLING DOWELS INTO SLAB. DO NOT CUT SLAB REBAR.

B4 ELEVATED SLAB EQUIPMENT PAD DETAIL

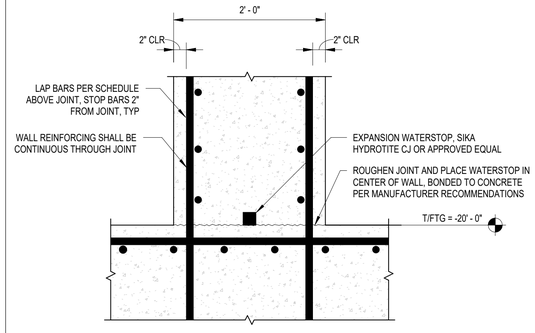
SCALE: NOT TO SCALE



NOTES:
1. LOCATION OF FIRST HORIZONTAL WALL CONSTRUCTION JOINT SHALL BE ABOVE MAXIMUM HIGH WATER LEVEL WITHIN WET WELL. REFER TO BUILDING SECTIONS FOR PROPOSED HORIZONTAL CONSTRUCTION JOINT LOCATIONS.

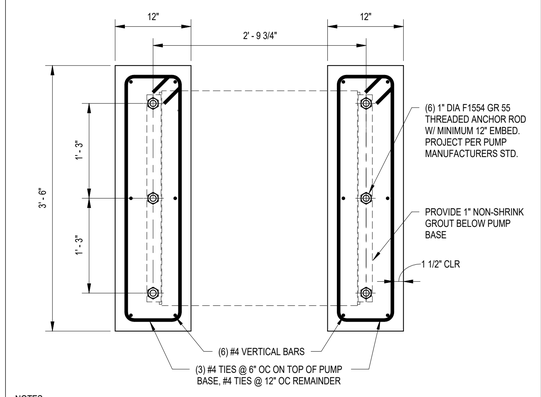
A1 TYPICAL HORIZONTAL WALL CONSTRUCTION JOINT

SCALE: NOT TO SCALE



A2 TYPICAL WALL BASE DETAIL

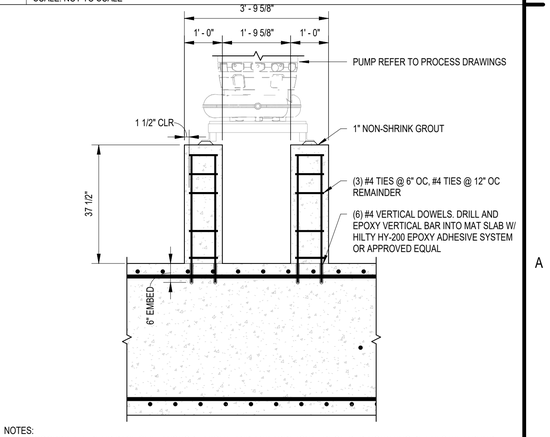
SCALE: NOT TO SCALE



NOTES:
1. COORDINATE PUMP BASE SIZE, ANCHOR LAYOUT, AND ANY ADDITIONAL REQUIRED MOUNTING DETAILS WITH PUMP MANUFACTURER. REFER TO MP DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

A3 TYPICAL PUMP BASE DETAIL

SCALE: NOT TO SCALE



NOTES:
1. COORDINATE PUMP BASE SIZE, ANCHOR LAYOUT, AND ANY ADDITIONAL REQUIRED MOUNTING DETAILS WITH PUMP MANUFACTURER. REFER TO MP DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. USE REBAR FINDER TO LOCATE DRILLED AND EPOXIED VERTICAL #4 DOWELS, ADJUST AROUND MAT FOUNDATION REINFORCING AS REQUIRED. DO NOT CUT MAT FOUNDATION REINFORCEMENT.

A4 TYPICAL PUMP BASE SECTION

SCALE: NOT TO SCALE

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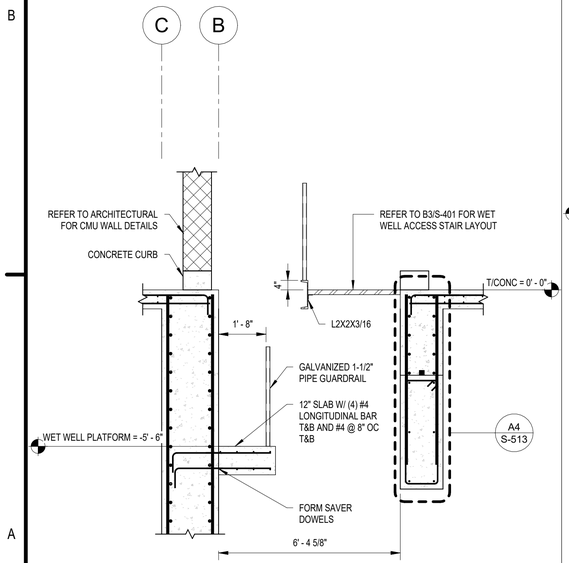
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TYPICAL DETAILS

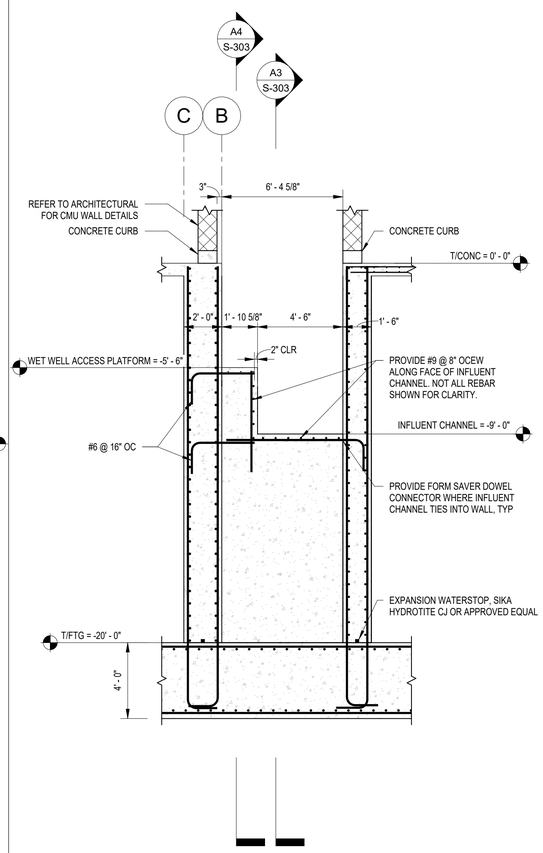
S-502

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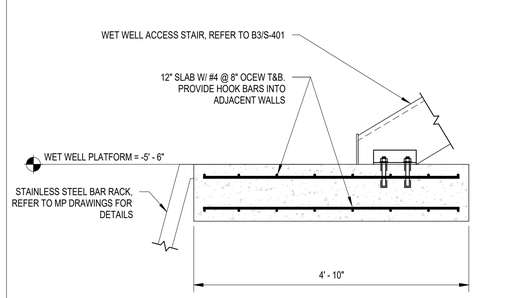
A1 WET WELL ACCESS PLATFORM SECTION

SCALE: NOT TO SCALE



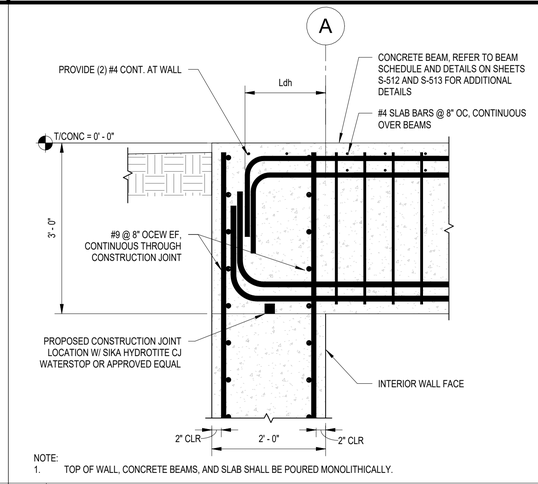
A2 INFLUENT CHANNEL SECTION - NS

SCALE: NOT TO SCALE



C3 INFLUENT CHANNEL PLATFORM SECTION

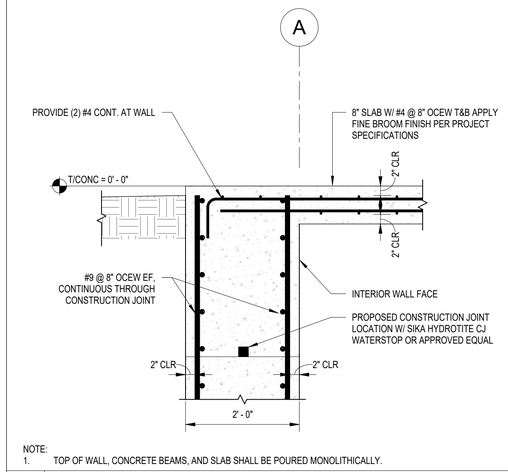
SCALE: 3/4" = 1'-0"



NOTE:
1. TOP OF WALL, CONCRETE BEAMS, AND SLAB SHALL BE POURED MONOLITHICALLY.

C4 TOP OF WET WELL WALL @ BEAM

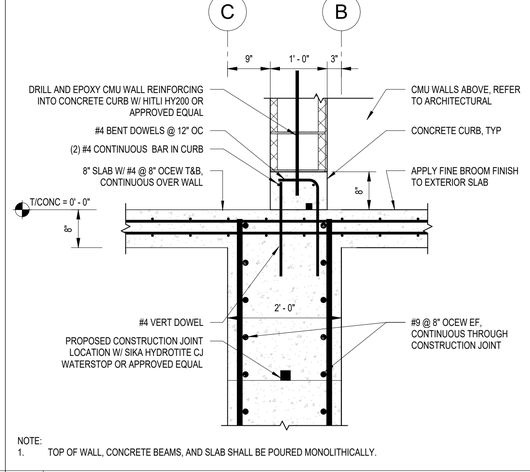
SCALE: 3/4" = 1'-0"



NOTE:
1. TOP OF WALL, CONCRETE BEAMS, AND SLAB SHALL BE POURED MONOLITHICALLY.

B3 TOP OF WET WELL WALL

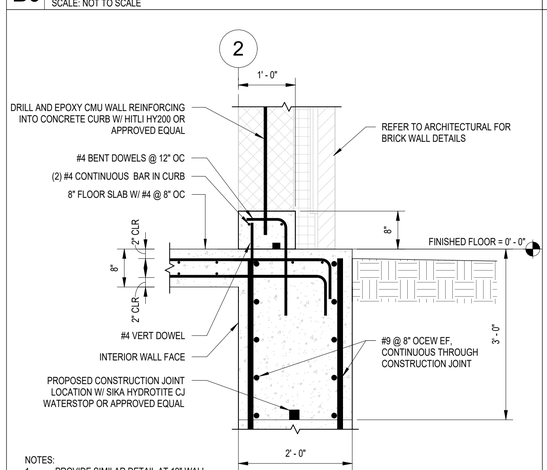
SCALE: NOT TO SCALE



NOTE:
1. TOP OF WALL, CONCRETE BEAMS, AND SLAB SHALL BE POURED MONOLITHICALLY.

B4 TOP OF INTERIOR WALL DETAIL

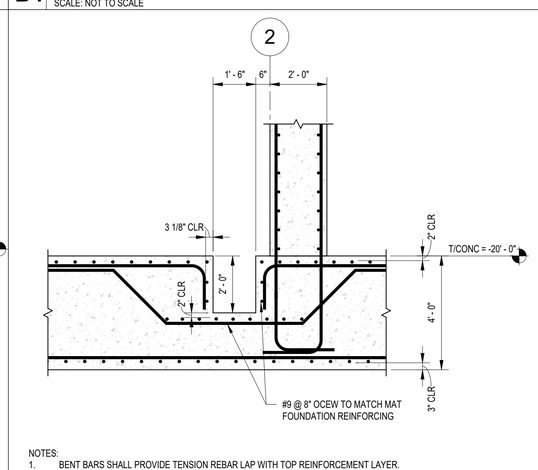
SCALE: NOT TO SCALE



NOTES:
1. PROVIDE SIMILAR DETAIL AT 18" WALL.

A3 TOP OF DRY WELL WALL

SCALE: NOT TO SCALE



NOTES:
1. BENT BARS SHALL PROVIDE TENSION REBAR LAP WITH TOP REINFORCEMENT LAYER.

A4 SUMP PIT SECTION

SCALE: NOT TO SCALE

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ONEIDA COUNTY 1798 NEW YORK

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CONCRETE DETAILS

S-511

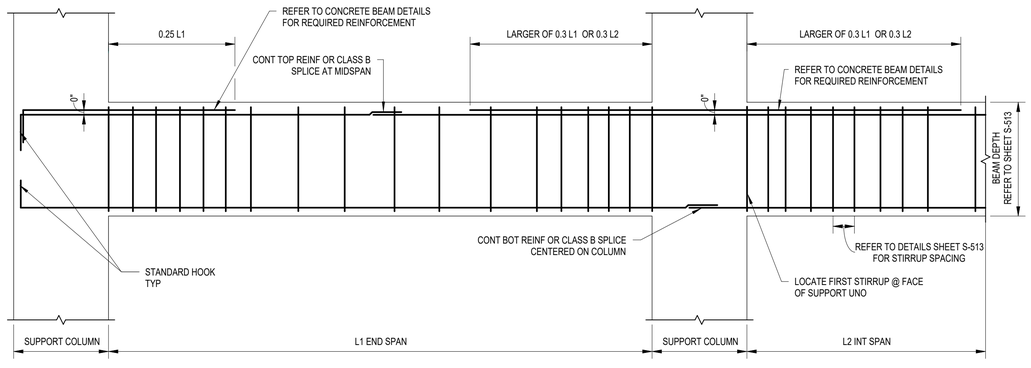
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CONCRETE BEAM SCHEDULE

MARK	DIMENSIONS "W"	"H"	"L"	BOT REINF	TOP REINF	MID REINF	STIRRUP SIZE AND REINF
CB-1	12"	22"	SEE PLAN	(3) #7	(3) #6	N/A	#3 @ 6" OC
CB-2	12"	16"	SEE PLAN	(2) #5	(2) #5	N/A	#3 @ 6" OC
CB-3	36"	18"	SEE PLAN	(4) #9 BOT LAYER, (4) #9 ABOVE (8 TOTAL)	(4) #8 TOP LAYER, (2) #8 BELOW (6 TOTAL)	N/A	#4 @ 6" OC
CB-4	48"	18"	SEE PLAN	(2) #9	(2) #9	(2) #9	#4 @ 6" OC

NOTES:
1. REFER TO SHEET S-513 FOR CONCRETE BEAM DETAILS.

B1 CONCRETE BEAM SCHEDULE
SCALE: 3/4" = 1'-0"



A1 TYP CONCRETE BEAM REINFORCING DETAIL
SCALE: 3/4" = 1'-0"

TENSION LAP SPLICE LENGTHS
(GRADE 60 - NORMAL WEIGHT CONCRETE)

BAR SIZE	LAP CLASS	f'c = 3,000 psi				f'c = 4,000 psi				f'c = 5,000 psi			
		TOP BARS		OTHER BARS		TOP BARS		OTHER BARS		TOP BARS		OTHER BARS	
		CASE 1	CASE 2	CASE 1	CASE 2	CASE 1	CASE 2	CASE 1	CASE 2	CASE 1	CASE 2	CASE 1	CASE 2
#3	A	22	32	17	25	19	28	15	22	17	25	13	19
	B	28	42	22	32	24	36	19	28	22	33	17	25
#4	A	29	43	22	33	25	37	19	29	22	33	17	26
	B	37	56	29	43	32	48	25	37	29	43	22	33
#5	A	36	54	28	41	31	47	24	36	28	42	22	32
	B	47	70	36	54	40	60	31	47	36	54	28	42
#6	A	43	64	33	50	37	56	29	43	33	50	26	38
	B	56	84	43	64	48	72	37	56	43	65	33	50
#7	A	63	94	48	72	54	81	42	63	49	73	37	56
	B	81	122	63	94	70	106	54	81	63	94	49	73
#8	A	72	107	55	82	62	93	48	72	55	83	43	64
	B	93	139	72	107	80	121	62	93	72	108	55	83
#9	A	81	121	62	93	70	105	54	81	63	94	48	72
	B	105	157	81	121	91	136	70	105	81	122	63	94
#10	A	91	136	70	105	79	118	61	91	70	105	54	81
	B	118	177	91	136	102	153	79	118	91	137	70	105
#11	A	101	151	78	116	87	131	67	101	78	117	60	90
	B	131	196	101	151	113	170	87	131	101	152	78	117

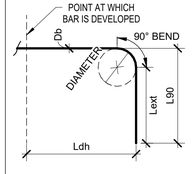
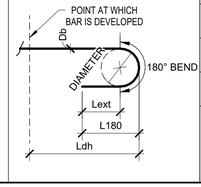
NOTES:
- TABULATED VALUES FOR BEAMS OR COLUMNS ARE BASED ON TRANSVERSE REINFORCEMENT AND CONCRETE COVER MEETING MINIMUM CODE REQUIREMENTS. LENGTHS ARE IN INCHES.
- CASES 1 AND 2, WHICH DEPEND ON THE TYPE OF STRUCTURAL ELEMENT, CONCRETE COVER, AND THE CENTER-TO-CENTER SPACING OF THE BARS, ARE DEFINED AS:

BEAMS OR COLUMNS	CASE 1	COVER AT LEAST $1d_b$ AND c.-c. SPACING AT LEAST $2d_b$
	CASE 2	COVER LESS THAN $1d_b$ OR c.-c. SPACING LESS THAN $2d_b$
ALL OTHERS	CASE 1	COVER AT LEAST $1d_b$ AND c.-c. SPACING AT LEAST $3d_b$
	CASE 2	COVER LESS THAN $1d_b$ OR c.-c. SPACING LESS THAN $3d_b$

- LAP CLASS A VALUES ARE THE REQUIRED TENSION DEVELOPMENT LENGTHS, (ld; LAP SPLICE LENGTHS ARE MULTIPLES OF TENSION DEVELOPMENT LENGTHS;
  CLASS A - 1.0ld (ACI 318-14, SECTION 25.5.2.1)
  CLASS B = 1.3ld (ACI 318-14, SECTION 25.5.2.1)
- TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12 INCHES OF CONCRETE CAST BELOW THE BARS.
- FOR LIGHTWEIGHT AGGREGATE CONCRETE, MULTIPLY THE TABULATE VALUES BY 1.3; OR WHEN fct IS SPECIFIED, THE FACTOR IS $6.7\sqrt{f'c} / fct \geq 1.0$.
- FOR EPOXY-COATED BARS, MULTIPLY THE TABULATED VALUES BY ONE OF THE FOLLOWING FACTORS:

CONCRETE COVER AND SPACING	TOP BARS	OTHER BARS
COVER < $3d_b$ OR c.-c. SPACING > $7d_b$	1.7 / 1.3 - 1.31	1.50
COVER ≤ $3d_b$ OR c.-c. SPACING ≤ $7d_b$	120	120

B3 TENSION LAP SPLICE LENGTH TABLE
SCALE: 1 1/2" = 1'-0"

TYPE OF STANDARD HOOK	BAR SIZE	MINIMUM INSIDE BEND DIAMETER, (in)	STRAIGHT EXTENSION L exts (in)	TYPE OF STANDARD HOOK
90-DEGREE HOOK	#3 TO #8	6Db	12Db	
	#9 TO #11	8Db		
180-DEGREE HOOK	#3 TO #8	6Db	GREATER OF 4Db AND 2.5 (in)	
	#9 TO #11	8Db		

BAR DATA			HOOKED REINFORCING TENSION DEVELOPMENT LENGTH (GRADE 60 - NORMAL WEIGHT CONCRETE)				HOOKED END LENGTH	
BAR DIA	Db (in)	INSIDE DIA (in)	3,000 psi Ldh (in)	4,000 psi Ldh (in)	5,000 psi Ldh (in)	6,000 psi Ldh (in)	3000 TO 6000 psi L90 (in)	L180 (in)
#3	0.375	2 1/4	6	6	6	6	6	5
#4	0.500	3	8	7	6	6	8	6
#5	0.625	3 3/4	10	9	8	7	10	7
#6	0.750	4 1/2	12	10	9	9	12	8
#7	0.875	5 1/4	14	12	11	10	14	10
#8	1.000	6	16	14	12	11	16	11
#9	1.128	9 1/2	18	15	14	13	19	15
#10	1.270	10 3/4	20	17	16	14	22	17
#11	1.410	12	22	19	17	16	24	19

1. STANDARD 90 DEGREE HOOK EMBEDMENT LENGTHS ARE BASED ON BAR SIDE COVER >= 2.5" AND BAR END COVER >= 2" WITHOUT TIES AROUND HOOKS.
2. WHEN SIDE COVER AND/OR END COVER REQUIREMENTS ARE NOT SATISFIED BAR DEVELOPMENT LENGTH SHALL BE INCREASED BY A FACTOR OF 1.3.
3. TABULATED VALUES SHALL BE MULTIPLIED BY 1.2 FOR EPOXY-COATED HOOKED REINFORCING.
4. HOOKED REINFORCING IS NOT CONSIDERED EFFECTIVE FOR DEVELOPING BARS IN COMPRESSION.

A3 TYPICAL DETAIL - REINFORCMENT TENSION DEVELOPMENT AND HOOKED LENGTH SCHEDULE
SCALE: 1 1/2" = 1'-0"

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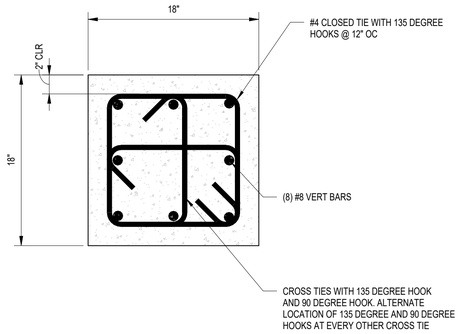
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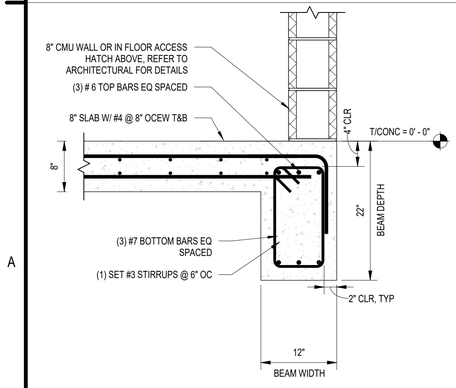
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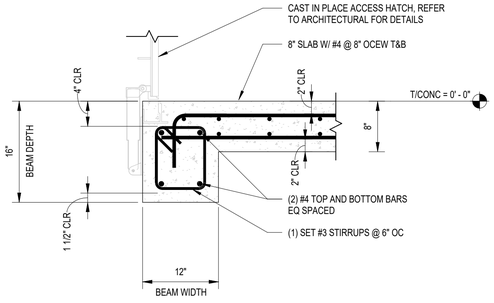
B3 COLUMN C1 DETAIL
SCALE: NOT TO SCALE

A4 CB-4 SECTION
SCALE: NOT TO SCALE



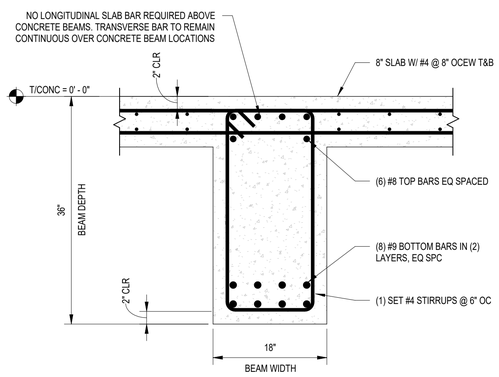
NOTES:
1. PROVIDE 90 DEG HOOKED BARS WHERE BEAM CONNECTS TO WALLS OR OTHER CONCRETE BEAMS.
2. ADDITIONAL CLEAR SPACE PROVIDED AT TOP OF BEAM TO ALLOW FOR CAST IN PLACE ACCESS HATCH FRAMING, REFER TO ARCHITECTURAL FOR ADDITIONAL DETAILS.

A1 CB-1 SECTION
SCALE: NOT TO SCALE



NOTES:
1. PROVIDE 90 DEG HOOKED BARS WHERE BEAM CONNECTS TO WALLS OR OTHER CONCRETE BEAMS.
2. WHERE NO ACCESS HATCH IS INSTALLED, PROVIDE 2" CLEAR COVER TO TIES AT TOP OF BEAM.

A2 CB-2 SECTION
SCALE: NOT TO SCALE



NOTES:
1. PROVIDE 90 DEG HOOKED BARS WHERE BEAM CONNECTS TO WALLS OR OTHER CONCRETE BEAMS.

A3 CB-3 SECTION
SCALE: NOT TO SCALE

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CERTIFICATE OF AUTHORIZATION# 0021365

STATE OF NEW YORK · JOHN W. OBLINGER · LICENSED PROFESSIONAL ENGINEER · 082009

REGISTRATION EXPIRES: 05/31/2028

ONEIDA COUNTY · 1798 · NEW YORK

TRIANGLE AREA CIVIL SITE DEVELOPMENT PUMP STATION GRIFFISS INTERNATIONAL AIRPORT ONEIDA COUNTY, ROME, NEW YORK

MARK	DATE	DESCRIPTION
REVISIONS		

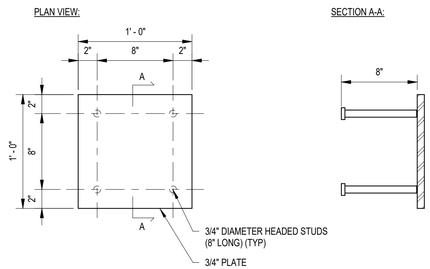
PROJECT NO:	146.205.011
DATE:	MARCH 6, 2026
DRAWN BY:	M.S.ROLFE, P.E.
DESIGNED BY:	M.S.ROLFE, P.E.
CHECKED BY:	K.J.SPYTKO, P.E.

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CONCRETE BEAM DETAILS

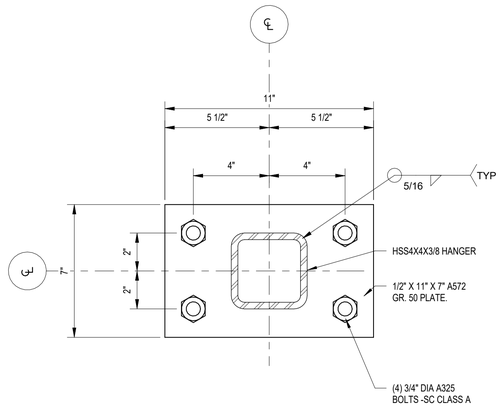
S-513

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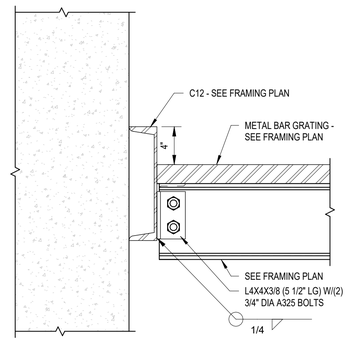


NOTE: EMBED PLATES TO BE HOD-DIP GALVANIZED AFTER FABRICATION

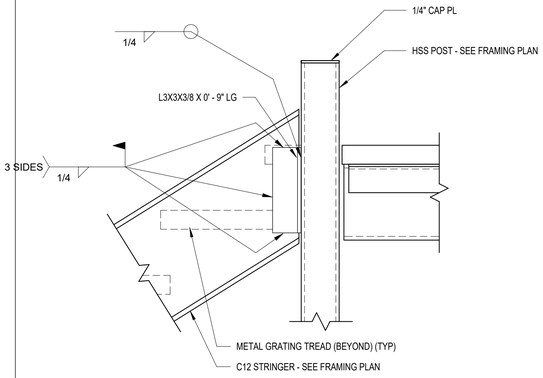
C1 TYPICAL EMBED PLATE DETAIL
SCALE: NOT TO SCALE



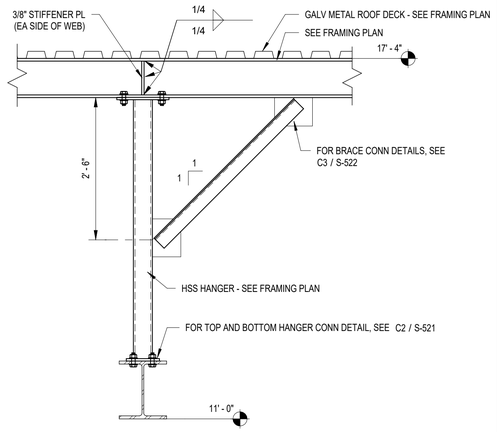
C2 TYPICAL MONORAILHANGER CONN DETAIL
SCALE: NOT TO SCALE



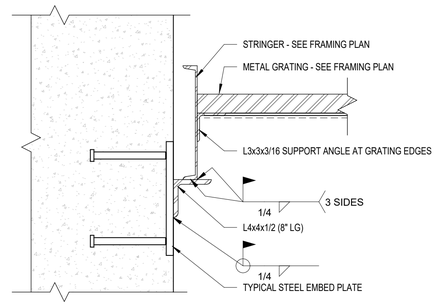
C3 LANDING CONNECTION DETAIL
SCALE: NOT TO SCALE



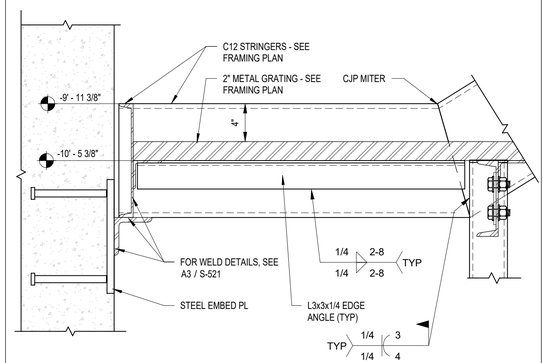
C4 TYPICAL STRINGER TO POST DETAIL
SCALE: NOT TO SCALE



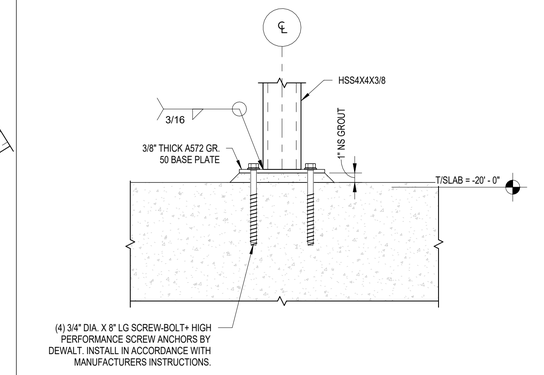
B1 TYPICAL MONORAIL BRACE DETAIL
SCALE: NOT TO SCALE



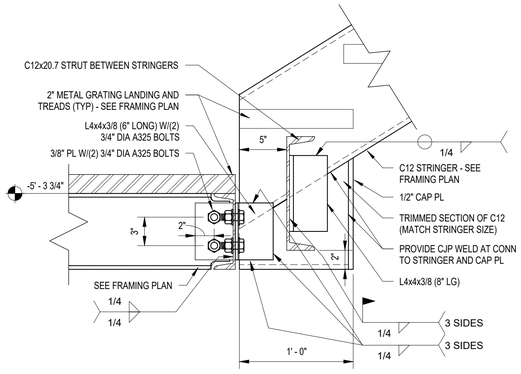
B2 TYPICAL STAIR STRINGER CONN TO EMBED PLATE
SCALE: NOT TO SCALE



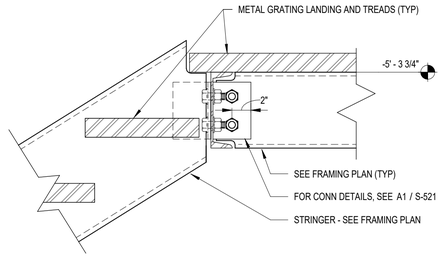
B3 STAIR CONNECTION DETAIL
SCALE: NOT TO SCALE



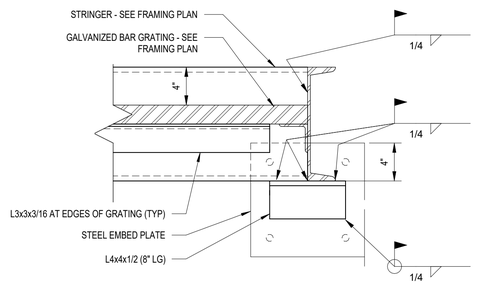
B4 TYPICAL HSS BASEPLATE CONNECTION ELEVATION
SCALE: NOT TO SCALE



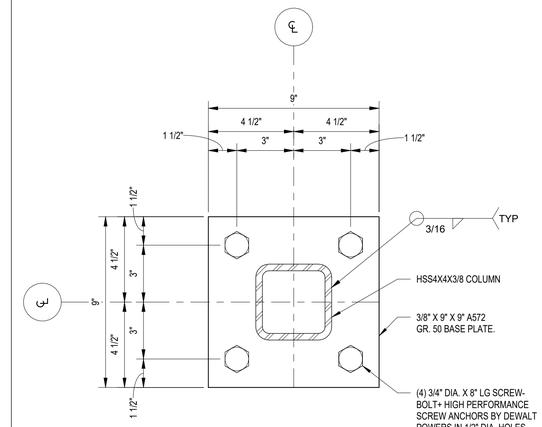
A1 STRINGER CONNECTION DETAIL
SCALE: NOT TO SCALE



A2 STRINGER CONNECTION DETAIL
SCALE: NOT TO SCALE



A3 STAIR CONNECTION DETAIL
SCALE: NOT TO SCALE



A4 TYPICAL HSS BASEPLATE CONNECTION
SCALE: NOT TO SCALE

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CERTIFICATE OF AUTHORIZATION# 0021365

STATE OF NEW YORK · JOHN W. OBLEY · 082000 · LICENSED PROFESSIONAL ENGINEER

REGISTRATION EXPIRES: 05/31/2028

ONEIDA COUNTY 1798 NEW YORK

TRIANGLE AREA CIVIL SITE DEVELOPMENT PUMP STATION GRIFFISS INTERNATIONAL AIRPORT ONEIDA COUNTY, ROME, NEW YORK

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REVISIONS		

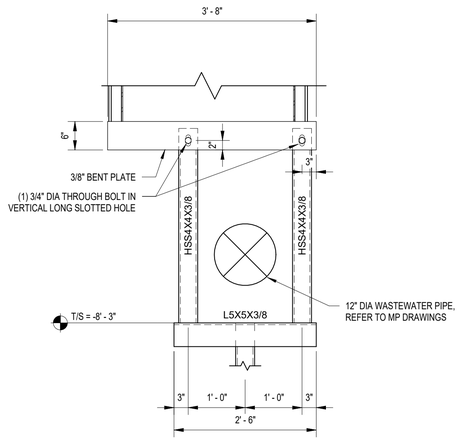
PROJECT NO:	146.205.011
DATE:	MARCH 6, 2026
DRAWN BY:	M.S.ROLFE, P.E.
DESIGNED BY:	M.S.ROLFE, P.E.
CHECKED BY:	K.J.SPYTKO, P.E.

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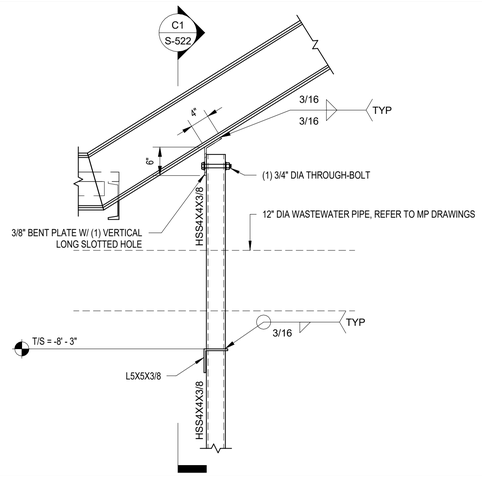
STEEL DETAILS

S-521

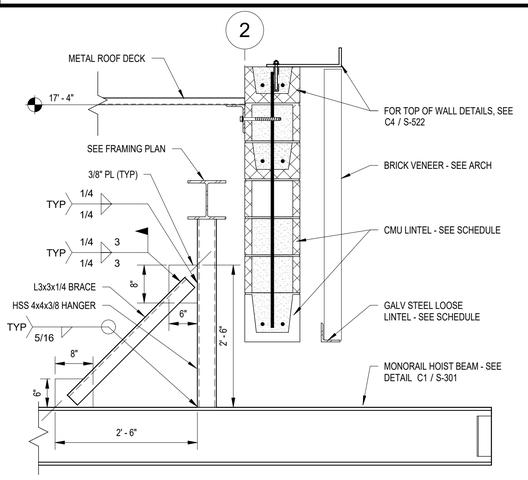
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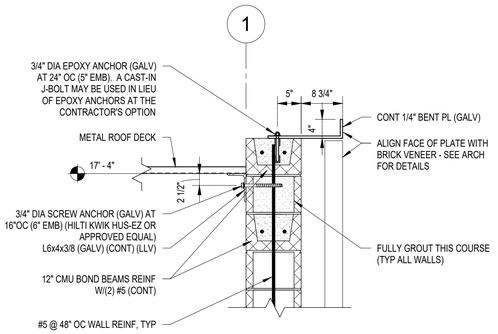
C1 PIPE SUPPORT SECTION
SCALE: 3/4" = 1'-0"



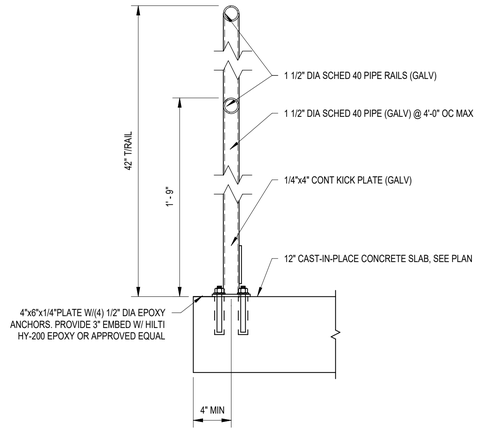
C2 PIPE SUPPORT DETAIL
SCALE: 3/4" = 1'-0"



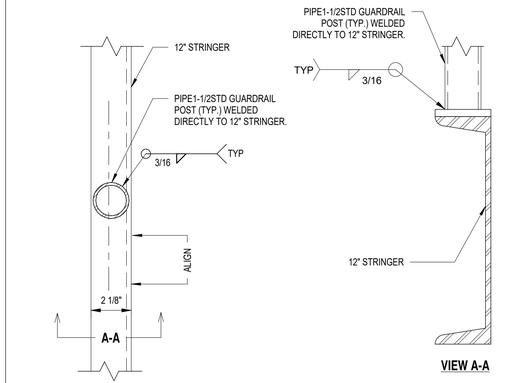
C3 DETAIL AT MONORAIL
SCALE: NOT TO SCALE



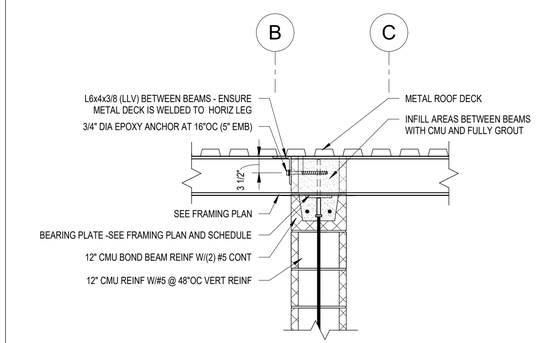
C4 TYPICAL WALL DETAIL
SCALE: NOT TO SCALE



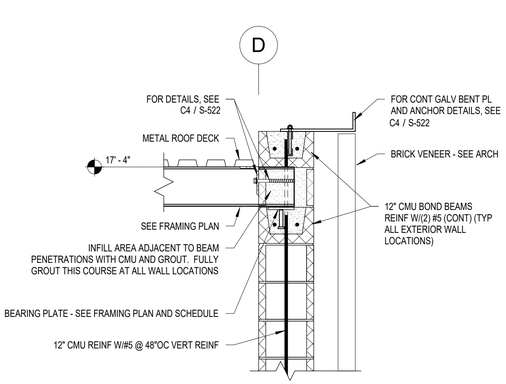
B1 FLOOR MOUNTED GUARDRAIL DETAIL
SCALE: NOT TO SCALE



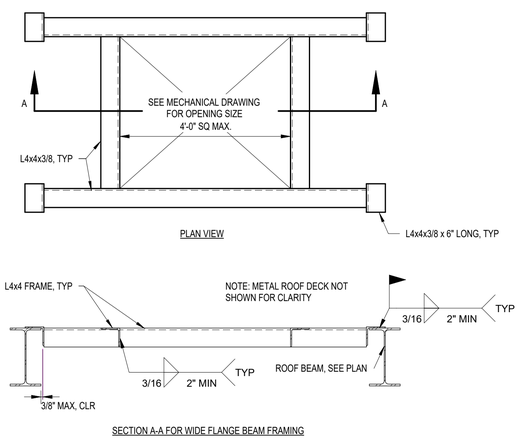
B2 TYPICAL POST CONNECTION TO STRINGER
SCALE: NOT TO SCALE



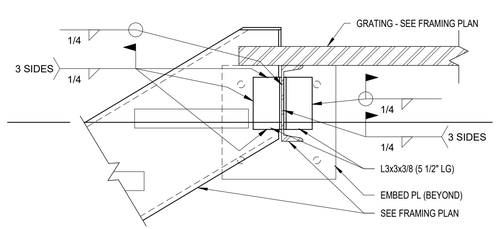
B3 TYPICAL INTERIOR WALL DETAIL
SCALE: NOT TO SCALE



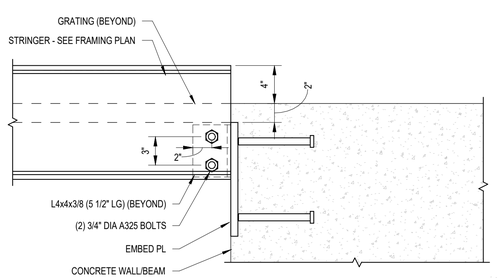
B4 TYPICAL WALL DETAIL
SCALE: NOT TO SCALE



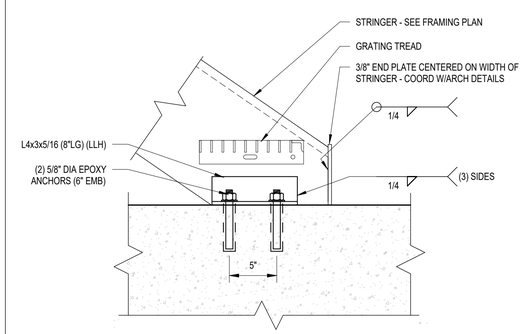
A1 TYPICAL ROOF OPENING FRAME
SCALE: NOT TO SCALE



A2 STRINGER CONN TO EMBED PLATE
SCALE: NOT TO SCALE



A3 STRINGER CONN TO EMBED PLATE
SCALE: NOT TO SCALE



A4 TYPICAL STRINGER CONNECTION TO CONCRETE
SCALE: NOT TO SCALE

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CERTIFICATE OF AUTHORIZATION# 0021365

STATE OF NEW YORK · TONI W. OBLAK · 082000 · LICENSED PROFESSIONAL ENGINEER

REGISTRATION EXPIRES: 05/31/2028

ONEIDA COUNTY 1798 NEW YORK

TRIANGLE AREA CIVIL SITE DEVELOPMENT PUMP STATION GRIFFISS INTERNATIONAL AIRPORT ONEIDA COUNTY, ROME, NEW YORK

MARK	DATE	DESCRIPTION

REVISIONS

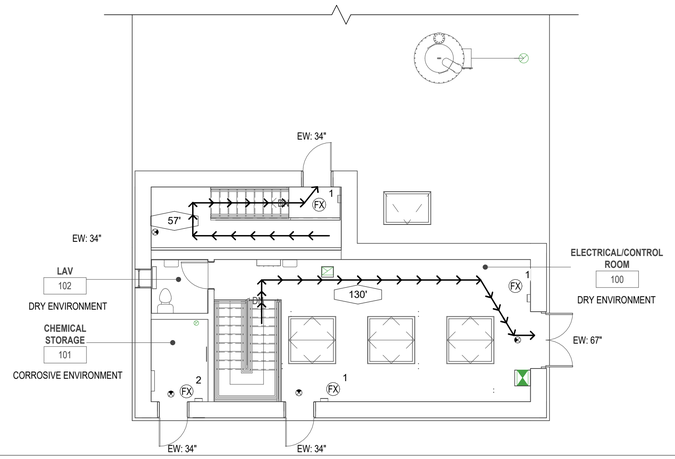
PROJECT NO:	146.205.011
DATE:	MARCH 6, 2026
DRAWN BY:	M.S.ROLFE, P.E.
DESIGNED BY:	M.S.ROLFE, P.E.
CHECKED BY:	K.J.SPYTKO, P.E.

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STEEL DETAILS

S-522

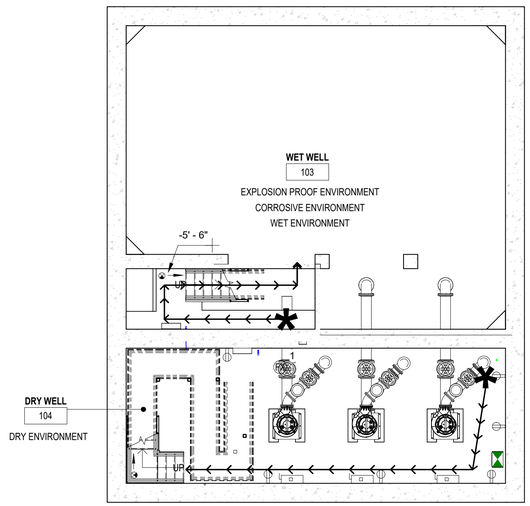
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PLAN NORTH

C1 FIRST FLOOR - FLOOR PLAN - CODE
SCALE: 1/8" = 1'-0"

0 4' 8' 16'



PLAN NORTH

A1 WET WELL & DRY WELL - CODE
SCALE: 1/8" = 1'-0"

0 4' 8' 16'

2025 NEW YORK BUILDING CODE - CODE ANALYSIS

BUILDING TYPE:	IIB
SPRINKLERED:	NO
OCCUPANCY CLASSIFICATION:	UTILITY AND MISCELLANEOUS
TOTAL PROJECT AREA:	2,710 SF

SPECIAL DETAILED REQUIREMENTS	REQUIRED	PROVIDED
HAZARDOUS MATERIALS CONTROL AREA (414.2.4)	2 HR	NA - ENTIRE BLDG IS CONTROL AREA
EXPLOSION CONTROL (414.5.1)	NOT REQUIRED	NOT PROVIDED

GENERAL BUILDING HEIGHTS AND AREAS	ALLOWED	ACTUAL
BUILDING HEIGHT (TABLE 504.3)	55'	17'4"
NUMBER OF STORIES (TABLE 504.4)	3	3
BUILDING AREA (TABLE 506.2)	8,500 SF	2,710 SF

TYPES OF CONSTRUCTION	REQUIRED	PROVIDED
STRUCTURAL FRAME	0 HR	0 HR
BEARING WALLS	0 HR	0 HR
NON-BEARING WALLS	0 HR	0 HR
FLOOR CONSTRUCTION	0 HR	0 HR
ROOF CONSTRUCTION	0 HR	0 HR

APPLICABLE CODES

2025 Building Code of NYS
2025 Fire Code of NYS
2025 Plumbing Code of NYS
2025 Mechanical Code of NYS
2025 Fuel Gas Code of NYS
2025 Energy Conservation Construction Code of NYS
2009 ICC A117.1 Accessible And Usable Buildings

INTERIOR FINISHES	REQUIRED	PROVIDED
GROUP U (TABLE 803.13)	REQUIRED	PROVIDED
EXIT ENCLOSURES AND PASSAGEWAYS	NO RESTRICTIONS	-
CORRIDORS	NO RESTRICTIONS	-
ROOMS AND ENCLOSED SPACES	NO RESTRICTIONS	-

FIRE PROTECTION SYSTEMS	REQUIRED	PROVIDED
GROUP U (SECTION 903.2.11)	NOT REQUIRED	NOT PROVIDED

MEANS OF EGRESS	REQUIRED	PROVIDED
NUMBER OF MEANS OF EGRESS (1006.2.1)	2	4
TOTAL EXIT WIDTH (1010.1.1)	32" MIN	169"
MEANS OF EGRESS SIZING (1005.3.2)	32" TOTAL	32" MIN
GUARDS (1015.6)	30" HEIGHT	42" HEIGHT
OPENING LIMITATIONS AT ELEVATED WALKING SURFACE (1014.4 EXCEPTION 3)	> 21" DIA.	> 21" DIA.
TRAVEL DISTANCE	300' MAX	130'

LIFE SAFETY OCCUPANCY AND OCCUPANT LOAD CALCULATION

SPACE	FUNCTION (TABLE 1004.5)	GROSS SF	NET SF	SF/PERSON	OCCUPANCY
CHEMICAL STORAGE ROOM	ACCESSORY STORAGE	52 SF	52 SF	300 GROSS	1
ELECTRICAL/CONTROL ROOM	MECHANICAL EQUIPMENT ROOM	500 SF	500 SF	300 GROSS	2
DRY WELL	MECHANICAL EQUIPMENT ROOM	580 SF	580 SF	300 GROSS	2
WET WELL	MECHANICAL EQUIPMENT ROOM	980 SF	980 SF	300 GROSS	4
				TOTAL	9

RESTROOM FIXTURE CALCULATION - MINIMUM NUMBER OF PLUMBING FACILITIES (NYS BUILDING CODE - TABLE 2902.1)

		WATER CLOSETS		LAVATORIES	BATHTUBS / SHOWERS	DRINKING FOUNTAINS	OTHERS
SPACE AND OCCUPANCY	OCCUPANTS	MALE	FEMALE				
UTILITY (U)	9 OCCUPANTS	NOT REQUIRED / 1 PROVIDED			NOT REQUIRED	NOT REQUIRED PER 2025 PCNYS SECTION 410.2	1 SERVICE SINK

BATHROOM NOT REQUIRED PER TABLE 2902. BATHROOM NOT REQUIRED TO BE ADA COMPLIANT PER 1103.2.1, 1103.2.4, 1103.2.9

2025 ENERGY CONSERVATION CONSTRUCTION CODE OF NYS

ROME, NY ONEIDA COUNTY - CLIMATE ZONE 6

ROOF	R-34ci
WALLS, ABOVE GRADE	R-15.2ci
WALLS, BELOW GRADE	R-10ci
FLOORS	R-16.7ci
SLAB-ON-GRADE FLOORS, UNHEATED	R-20 FOR 24" BELOW

LIFE SAFETY LEGEND

SYMBOL	DESCRIPTION
XXX'-X"	COMMON PATH OF EGRESS TRAVEL (CPET)
*	EGRESS START POINT
	EXIT SIGNAGE (REFER TO ELECTRICAL DRAWINGS FOR SPECIFIED FIXTURE)
EC	EXIT CAPACITY
EW	EXIT WIDTH
1 FX	FIRE EXTINGUISHER (BRACKET): FIRE EXTINGUISHER 1: (BRACKET) - "COSMIC 5E" UL RATING 4A-80BC AS MANUFACTURED BY JL INDUSTRIES - MOUNTING HEIGHT 12" TO BOTTOM OF FIRE EXTINGUISHER FIRE EXTINGUISHER 2: (BRACKET) - "NEBULA MODEL 272" UL RATING AS MANUFACTURED BY JL INDUSTRIES MOUNTING HEIGHT 12" TO BOTTOM OF FIRE EXTINGUISHER
2 FX	**NOTES: FX1 - UL RATING 2A-10BC** 1. PROVIDE AND INSTALL FIRE EXTINGUISHER WHERE LOCATED ON PLAN. 2. EXTINGUISHER HEIGHTS PER LEGEND OR UNLESS NOTED OTHERWISE. 3. PROVIDE SHOP DRAWINGS FOR APPROVAL.

A3 BASIC PROJECT INFORMATION
SCALE: NOT TO SCALE

C&S COMPANIES®
C&S Architects, Engineers & Landscape Architect, LLC
499 Col. Eileen Collins Blvd.
Syracuse, New York 13212
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www.cscos.com

CERTIFICATE OF AUTHORIZATION# 0023741

REGISTERED ARCHITECT MICHAEL W. LAMONTAGNE 031950 STATE OF NEW YORK

REGISTRATION EXPIRES: 05/31/2028

ONEIDA COUNTY 1798 NEW YORK

TRIANGLE AREA CIVIL SITE DEVELOPMENT PUMP STATION
GRIFFISS INTERNATIONAL AIRPORT
ONEIDA COUNTY, ROME, NEW YORK

MARK	DATE	DESCRIPTION

REVISIONS

PROJECT NO: 146.205.011
DATE: MARCH 6, 2026
DRAWN BY: L. M. ROYER, AIA
DESIGNED BY: L. M. ROYER, AIA
CHECKED BY: A. M. BRUCE, AIA

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CODE COMPLIANCE PLAN

G-100

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GENERAL NOTES

1. DIMENSIONS NOTED "EQ" ARE EQUAL TO EACH OTHER ONLY IF THEY ARE ON THE SAME DIMENSION STRING AND IN THE SAME ROW
2. DO NOT SCALE DRAWINGS TO OBTAIN DIMENSIONS. REFER TO DRAWINGS FOR DIMENSIONS. REQUIRED CRITICAL DIMENSIONS NOT FOUND SHOULD BE FIELD VERIFIED OR OBTAINED FROM ARCHITECT. VERIFY ALL DIMENSIONS AND CONDITIONS IN FIELD (EXISTING AND PROPOSED CONSTRUCTION) AND BRING ANY DISCREPANCIES TO THE IMMEDIATE ATTENTION OF THE ARCHITECT
3. ALL WOOD COMPONENTS, ROUGH AND FINISHED, IN FIRE STAIR SHALL RECEIVE FIRE RETARDING TREATMENT (FRT)
4. ROOM NUMBERING IS FOR CONSTRUCTION PURPOSES ONLY. ACTUAL ROOM NUMBERING TO BE COORDINATED WITH OWNER PRIOR TO ANY SCHEDULING OR LABELING
5. REFER TO CODE CONFORMANCE DRAWINGS FOR REQUIRED FIRE RATED CONSTRUCTION
6. ALL DIMENSIONS ARE TO FACE OF MASONRY UNIT
7. VERIFY ALL DIMENSIONS IN THE FIELD. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BETWEEN CONTRACT DOCUMENTS AND FIELD CONDITIONS
8. ALL MASONRY DIMENSIONS ARE NOMINAL
9. EXTEND ALL PARTITIONS FROM FLOOR TO UNDERSIDE OF DECK ABOVE UNLESS OTHERWISE INDICATED. MAKE THIS JOINT SMOKE TIGHT AND FIRESTOP AT RATED PARTITIONS
10. PROVIDE ACCESS PANELS AS REQUIRED AT ALL WALLS AND CEILINGS AT ALL VALVES, DAMPERS, CONCEALED JUNCTION BOXES, AND OTHER EQUIPMENT REQUIRING MAINTENANCE, ADJUSTMENTS OR SERVICING
11. THE TERM "WALL" AND "PARTITION" ARE USED INTERCHANGEABLY
12. SEE PARTITION TYPES FOR LOCATIONS OF ACOUSTIC AND THERMAL INSULATION
13. TREATED WOOD BLOCKING IS GENERALLY ACCEPTED FOR ROOFING TERMINATIONS AND WINDOW FRAMED OPENINGS ONLY. REVIEW WITH ARCHITECT ANY CONCERNS REGARDING BLOCKING. USE STAINLESS STEEL FOR ALL FASTENERS IN CONTACT WITH PRESERVATIVE TREATED WOOD
14. INTERIOR WALL TYPES ARE SHOWN ON THE FLOOR PLANS AND/OR DETAILS USING WALL TYPE SYMBOL (REFER TO SYMBOLS LEGEND)

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
0000	STRUCTURAL GRID		LEVEL REFERENCE
SIM A1 A-101	EXTERIOR ELEVATION	A1 / A-101	VIEW REFERENCE
SIM A1 A-101	INTERIOR ELEVATION	ROOM NAME 101 150 SF	ROOM TAG
SIM A1 A-101	BUILDING SECTION	MA3 15'-10" MA3	WALL TAG (SHOWING DIM WHEN NOT TO DECK)
SIM A1 A-101	WALL SECTION	101	DOOR TAG
SIM A1 A-101	DETAIL CALLOUT	A	WINDOW TAG
		1	REVISION TAG
			STRUCTURAL GRID LINE
			FINISHED SURFACE LINE
			DEMOLITION LINE
			OVERHEAD/HIDDEN LINE
	EXISTING CONSTRUCTION TO REMAIN		NEW CONSTRUCTION
	CONSTRUCTION TO BE DEMOLISHED		

A2 SYMBOLS LEGEND
SCALE: NOT TO SCALE

B3 GENERAL NOTES
SCALE: NOT TO SCALE

	EARTH		WOOD (FINISHED)
	GRANULAR FILL		WOOD (CONTINUOUS)
	CONCRETE		WOOD (BLOCKING)
	BRICK		INSULATION (LOOSE OR BATT)
	CONCRETE MASONRY UNIT		INSULATION (RIGID BOARD)
	STEEL SECTION		GLASS
	STRUCTURAL STEEL		ACOUSTIC/CERAMIC TILE
	PLYWOOD		GYPSUM WALL BOARD, SAND, PLASTER, CEMENT, GROUT
			TERRAZZO
			CARPET

A3 MATERIAL LEGEND
SCALE: NOT TO SCALE

A

AFF	ABOVE FINISHED FLOOR
ACT	ACOUSTICAL CEILING TILE
AMP	ACOUSTICAL METAL PANEL
ALUM	ALUMINUM
L	ANGLE

B

BLK	BLOCK
BD	BOARD
BOT	BOTTOM
BLDG	BUILDING
BL	BUILDING LINE

C

CPT	CARPET
CLKG	CAULK(ING)
CLG	CEILING
CBB	CEMENTITIOUS BACKER BOARD
CTR	CENTER
CL	CENTER LINE
CT	CERAMIC TILE
CB	CHALKBOARD
CLR	CLEAR / CLEARANCE
CLOS	CLOSET
COL	COLUMN
CONC	CONCRETE
CMU	CONCRETE MASONRY UNIT
CONT	CONTINUOUS
CJ	CONTROL JOINT
CG	CORNER GUARD
CORR	CORRIDOR
CTR	COUNTER
CRS	COURSE(S)
CW	CURTAINWALL

D

DEMO	DEMOLISH / DEMOLITION
DET	DETAIL
DIA	DIAMETER
DIM	DIMENSION
DIS	DISPENSER
DN	DOWN
DWG	DRAWING
DF	DRINKING FOUNTAIN

E

EA	EACH
ELEC	ELECTRIC
EWC	ELECTRIC WATER COOLER
EL	ELEVATION
ELEV	ELEVATOR
ENCL	ENCLOSURE
ENTR	ENTRANCE
ENTR GRL	ENTRANCE GRILLE
EQ	EQUAL
EQUIP	EQUIPMENT
EXH	EXHAUST
EXIST	EXISTING
ETR	EXISTING TO REMAIN
EXP	EXPANSION
EJ	EXPANSION JOINT
EXP	EXPOSED
EXT	EXTERIOR

F

FOF	FACE OF FINISH
FOM	FACE OF MASONRY
FOS	FACE OF STUDS
FOW	FACE OF WALL
F/F	FACE TO FACE
FT	FEET/FOOT
FRP	FIBER REINFORCED POLYESTER / PLASTIC
FGL	FIBERGLASS
FIN	FINISH(ED)
FF	FINISH FLOOR
FIN GR	FINISH GRADE
FA	FIRE ALARM
FEC	FIRE EXTINGUISHER CABINET
FHC	FIRE HOSE CABINET
FP	FIRE PROTECTION
FRT	FIRE RETARDANT
FP	FIREPROOF
FIXT	FIXTURE
FLASH	FLASHING
FLR	FLOOR
FD	FLOOR DRAIN
FTG	FOOTING
FDTN	FOUNDATION
FURN	FURNITURE
FBO	FURNISHED BY OTHERS
FURG	FURRED(ING)

G

GA	GAGE / GAUGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GL	GLASS
GL BLK	GLASS BLOCK
GL TL	GLASS TILE
GB	GRAB BAR
GR	GRADE
GRL	GRILLE
GYP BD	GYPSUM BOARD

H

HCP	HANDICAPPED
HNDRL	HANDRAIL
HDWD	HARDWOOD
HT	HEIGHT
HP	HIGH POINT
HM	HOLLOW METAL

I

IRWC	IMPACT RESISTANT WALL COVERING
ID	INSIDE DIAMETER
IMWP	INSULATED METAL WALL PANEL
INSUL	INSULATION / INSULATED
IG	INSULATING GLASS
ISG	INSULATING SPANDREL GLAZING
ITG	INSULATING TEMPERED GLASS
INT	INTERIOR

J

JC	JANITOR'S CLOSET

K

KD	KNOCKDOWN

L

LAM	LAMINATE
LAV	LAVATORY
L	LENGTH / LONG
LF	LINEAL FEET
LG	LAMINATED GLASS
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LPT	LOW POINT

M

MFR	MANUFACTURER
MO	MASONRY OPENING
MATL	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MTL	METAL
MEZZ	MEZZANINE
MIN	MINIMUM

N

NOM	NOMINAL
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
NO	NUMBER
NTS	NOT TO SCALE

O

OC	ON CENTER
OPNG	OPENING
OPP	OPPOSITE
OD	OUTSIDE DIAMETER
OH	OVERHEAD
OSB	ORIENTED STRAND BOARD

P

P	PAINT
PR	PAIR
PTD	PAPER TOWEL DISPENSER
PBD	PARTICLE BOARD
PTN	PARTITION
PLAS	PLASTIC
PLAM	PLASTIC LAMINATE
PLBG	PLUMBING
PLYWD	PLYWOOD
POL	POLISHED
POL CONC	POLISHED CONCRETE
PVC	POLYVINYL CHLORIDE
PEMB	PRE-ENGINEERED METAL BUILDING
PT	PRESSURE TREATED

Q

QT	QUARRY TILE
QTZ	QUARTZ

R

R	RADIUS (DIM)
RCP	REFLECTED CEILING PLAN
REINF	REINFORCE
REQD	REQUIRED
RB	RESILIENT BASE
RF	RESILIENT FLOORING
REV	REVISION / REVISED
R	RISER(S)
RD	ROOF DRAIN
RL	ROOF LEADER
RTU	ROOF TOP UNIT
RM	ROOM
RO	ROUGH OPENING
RBR	RUBBER

S

SCH	SCHEDULE(D)
SLNT	SEALANT
SLR	SEALER
SECT	SECTION
SHTHG	SHEATHING
SIM	SIMILAR
SD	SOAP DISPENSER
SAFB	SOUND ATTENUATION FIBERGLASS BATT
SPEC	SPECIFICATION
SF	SQUARE FEET OR STOREFRONT
STN	STAIN
SS	SOLID SURFACE
SST	STAINLESS STEEL
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURAL
SUSP	SUSPENDED
SYS	SYSTEM

T

TB	TACK BOARD
TG	TEMPERED GLASS
TERR	TERRAZZO
TFL	THERMALLY FUSED LAMINATE
THK	THICKNESS
THRES	THRESHOLD
TL	TILE
TPTN	TOILET PARTITION
T&B	TOP AND BOTTOM
T/O	TOP OF
TOS	TOP OF STEEL/SLAB
TOW	TOP OF WALL
T&G	TONGUE AND GROOVE
T	TREAD(S)
TYP	TYPICAL

U

UC	UNDER CUT
UNFIN	UNFINISHED
UON	UNLESS OTHERWISE NOTED

V

VB	VAPOR BARRIER
VR	VAPOR RETARDER
VTR	VENT THROUGH ROOF
VIF	VERIFY IN FIELD
VERT	VERTICAL
VEST	VESTIBULE
VCT	VINYL COMPOSITION TILE
VWB	VINYL WALL BASE
VWC	VINYL WALL COVERING
VP	VISION PANEL

W

WSCT	WAINSCOT
W CAB	WALL CABINET

W (CON'T)

WC	WATER CLOSET
W	WIDE
WG	WIRE GLASS
W/	WITH
WM	WIRE MESH
WD	WOOD
WBL	WOOD BLOCKING

A4 ABBREVIATIONS LIST
SCALE: NOT TO SCALE

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REGISTERED ARCHITECT MICHAEL W LAMONTAGNE 031950 STATE OF NEW YORK

REGISTRATION EXPIRES: 05/31/2028

TRIANGLE AREA CIVIL SITE DEVELOPMENT PUMP STATION
GRIFFISS INTERNATIONAL AIRPORT
ONEIDA COUNTY, ROME, NEW YORK

MARK	DATE	DESCRIPTION

REVISIONS

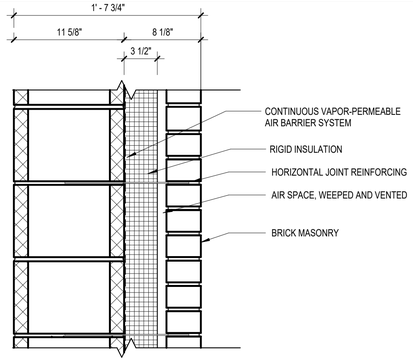
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GENERAL NOTES

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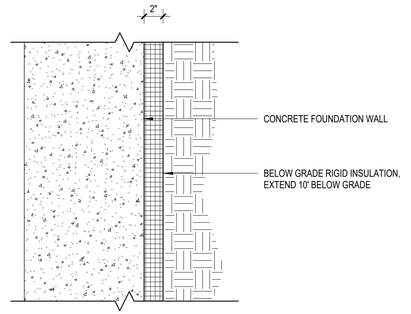
R-VALUE	REQUIRED	PROVIDED
CAVITY	N/A	N/A
CONTINUOUS	R-15.2	R-15.2

2 HR RATING - UL DESIGN U938 (WHERE INDICATED ON CODE CONFORMANCE DRAWINGS)

2025 ECCC NYS TABLE C402.1.3 THERMAL ENVELOPE INSULATION COMPONENT MINIMUM REQUIREMENTS, R-VALUE METHOD: CLIMATE ZONE 6 - MASS WALL - OTHER THAN RESIDENTIAL

C2 EXTERIOR WALL DETAIL (EX-1)

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

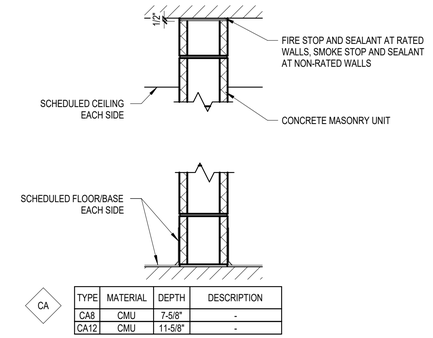


R-VALUE	REQUIRED	PROVIDED
CAVITY	N/A	N/A
CONTINUOUS	R-10	R-10

2025 ECCC NYS TABLE C402.1.3 THERMAL ENVELOPE INSULATION COMPONENT MINIMUM REQUIREMENTS, R-VALUE METHOD: CLIMATE ZONE 6 - BELOW GRADE WALL
INSULATION SHALL EXTEND TO A DEPTH OF NOT LESS THAN 10 FEET BELOW THE OUTSIDE FINISHED GROUND LEVEL

C3 FOUNDATION WALL DETAIL

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

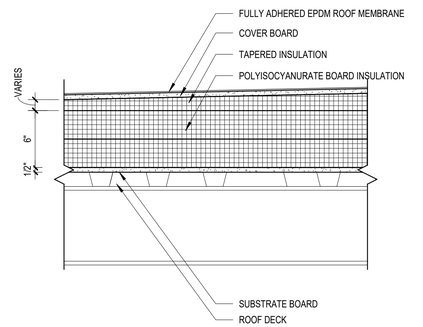


CA

TYPE	MATERIAL	DEPTH	DESCRIPTION
CA8	CMU	7-5/8"	-
CA12	CMU	11-5/8"	-

C4 CA PARTITION TYPE

SCALE: 1" = 1'-0"

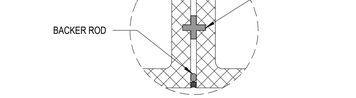


R-VALUE	REQUIRED	PROVIDED
CAVITY	N/A	N/A
CONTINUOUS	R-34	R-34

2025 ECCC NYS TABLE C402.1.3 THERMAL ENVELOPE INSULATION COMPONENT MINIMUM REQUIREMENTS, R-VALUE METHOD: CLIMATE ZONE 6 -INSULATION ENTIRELY ABOVE ROOF DECK

B3 EPDM ROOF TYPE

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



B4 PLAN DETAIL AT CMU EXPANSION JOINT

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

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REGISTRATION EXPIRES: 05/31/2028

ONEIDA COUNTY 1798 NEW YORK

TRIANGLE AREA CIVIL SITE DEVELOPMENT PUMP STATION GRIFFISS INTERNATIONAL AIRPORT ONEIDA COUNTY, ROME, NEW YORK

MARK	DATE	DESCRIPTION

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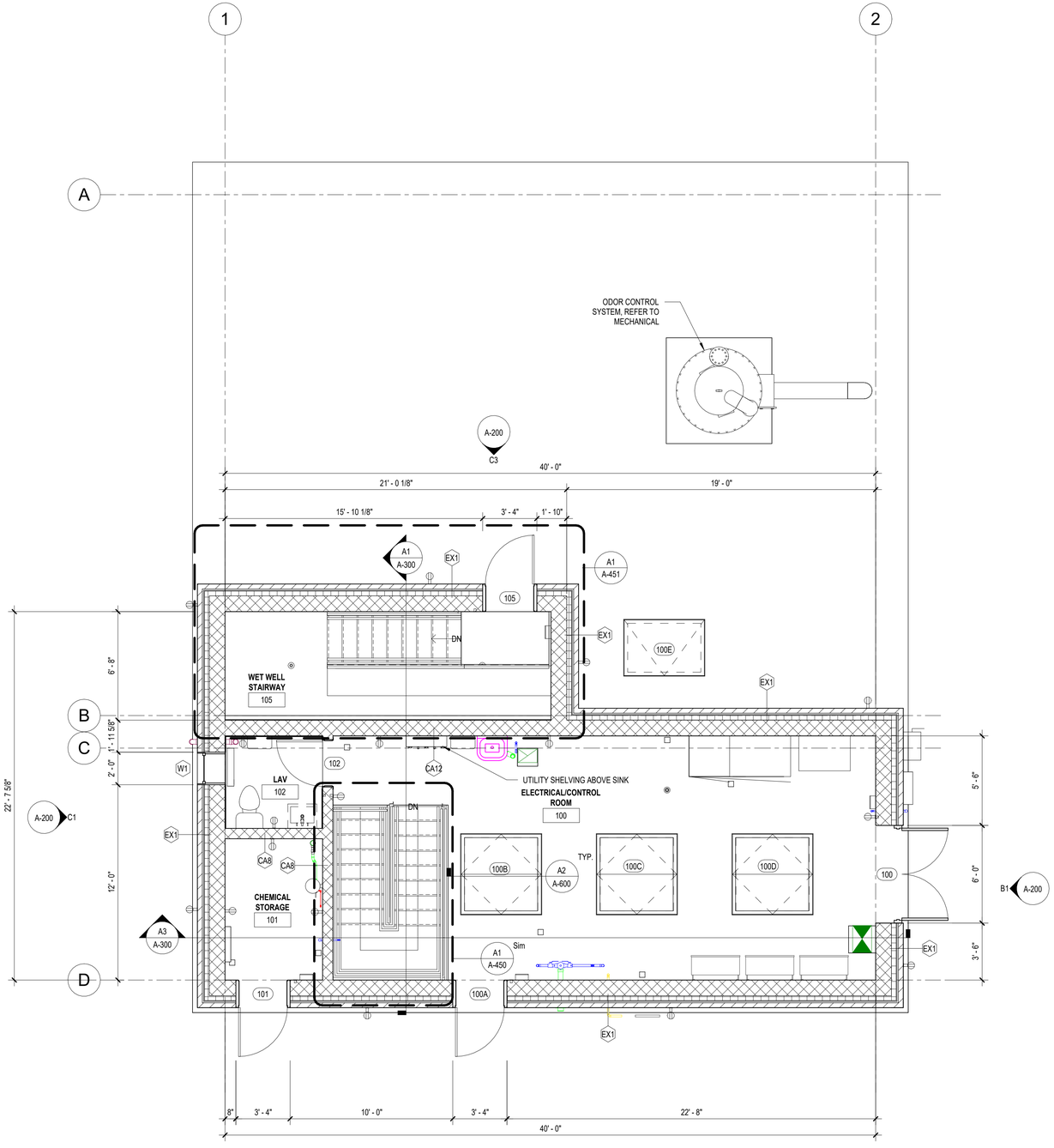
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WALL / FLOOR / ROOF TYPES

A-002

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B3
A-200

PLAN NORTH

0 2' 4' 8'

NOTE: FINISHED FLOOR = 0' - 0" REFERENCED FROM CIVIL DATUM 481.5FT.

A1 FIRST FLOOR - FLOOR PLAN
SCALE: 1/4" = 1'-0"

GENERAL NOTES

1. DIMENSIONS NOTED "EQ" ARE EQUAL TO EACH OTHER ONLY IF THEY ARE ON THE SAME DIMENSION STRING AND IN THE SAME ROW
2. DO NOT SCALE DRAWINGS TO OBTAIN DIMENSIONS. REFER TO DRAWINGS FOR DIMENSIONS. REQUIRED CRITICAL DIMENSIONS NOT FOUND SHOULD BE FIELD VERIFIED OR OBTAINED FROM ARCHITECT. VERIFY ALL DIMENSIONS AND CONDITIONS IN FIELD (EXISTING AND PROPOSED CONSTRUCTION) AND BRING ANY DISCREPANCIES TO THE IMMEDIATE ATTENTION OF THE ARCHITECT
3. ALL WOOD COMPONENTS, ROUGH AND FINISHED, IN FIRE STAIR SHALL RECEIVE FIRE RETARDING TREATMENT (FRT)
4. ROOM NUMBERING IS FOR CONSTRUCTION PURPOSES ONLY. ACTUAL ROOM NUMBERING TO BE COORDINATED WITH OWNER PRIOR TO ANY SCHEDULING OR LABELING
5. REFER TO CODE CONFORMANCE DRAWINGS FOR REQUIRED FIRE RATED CONSTRUCTION
6. ALL DIMENSIONS ARE TO FACE OF MASONRY UNIT
7. VERIFY ALL DIMENSIONS IN THE FIELD. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BETWEEN CONTRACT DOCUMENTS AND FIELD CONDITIONS
8. ALL MASONRY DIMENSIONS ARE NOMINAL
9. EXTEND ALL PARTITIONS FROM FLOOR TO UNDERSIDE OF DECK ABOVE UNLESS OTHERWISE INDICATED. MAKE THIS JOINT SMOKE TIGHT AND FIRESTOP AT RATED PARTITIONS
10. PROVIDE ACCESS PANELS AS REQUIRED AT ALL WALLS AND CEILINGS AT ALL VALVES, DAMPERS, CONCEALED JUNCTION BOXES, AND OTHER EQUIPMENT REQUIRING MAINTENANCE, ADJUSTMENTS OR SERVICING
11. THE TERM "WALL" AND "PARTITION" ARE USED INTERCHANGEABLY
12. SEE PARTITION TYPES FOR LOCATIONS OF ACOUSTIC AND THERMAL INSULATION
13. TREATED WOOD BLOCKING IS GENERALLY ACCEPTED FOR ROOFING TERMINATIONS AND WINDOW FRAMED OPENINGS ONLY. REVIEW WITH ARCHITECT ANY CONCERNS REGARDING BLOCKING. USE STAINLESS STEEL FOR ALL FASTENERS IN CONTACT WITH PRESERVATIVE TREATED WOOD
14. INTERIOR WALL TYPES ARE SHOWN ON THE FLOOR PLANS AND/OR DETAILS USING WALL TYPE SYMBOL (REFER TO SYMBOLS LEGEND)

C4 GENERAL NOTES
SCALE: NOT TO SCALE

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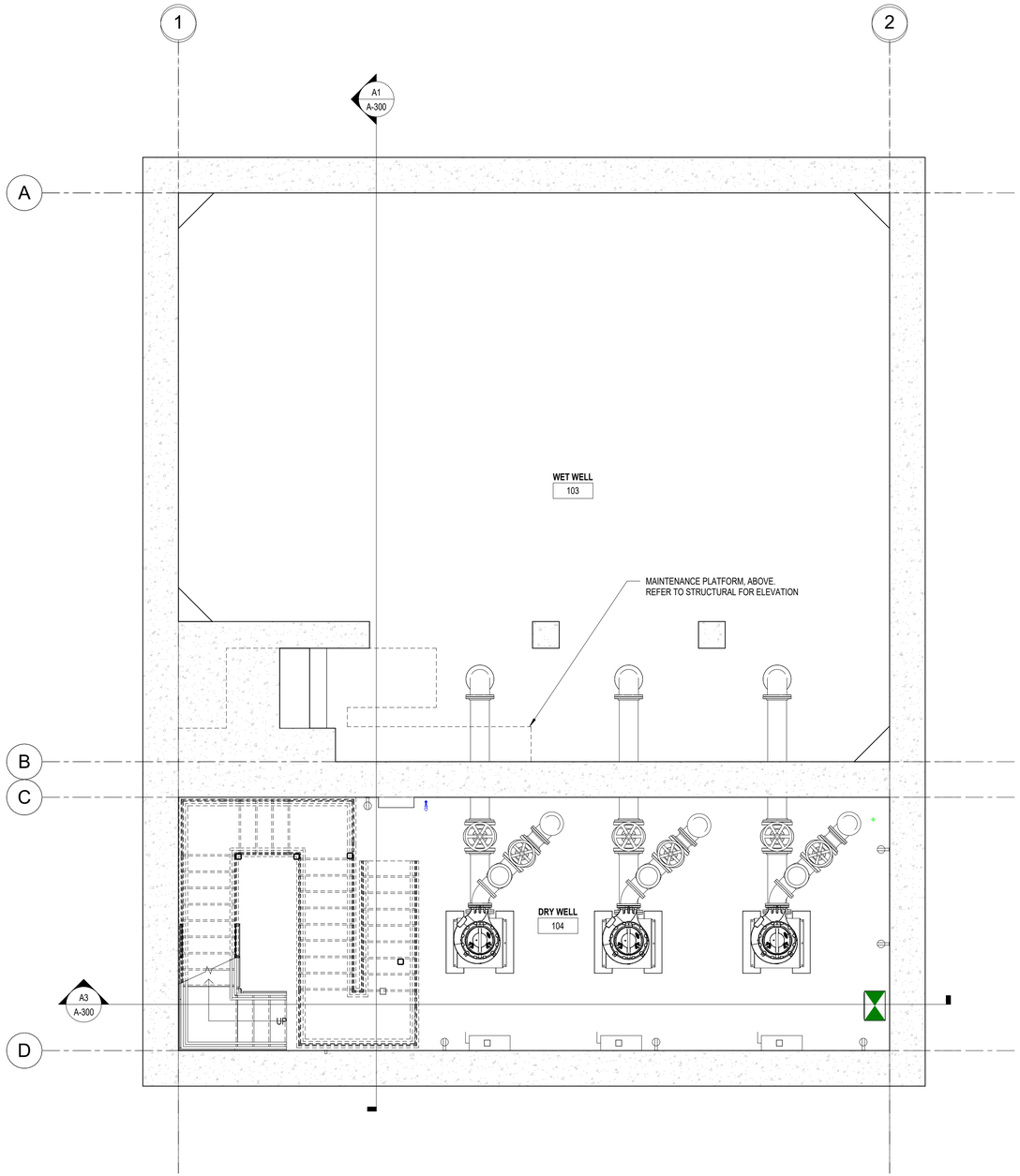
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FIRST FLOOR PLAN

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GENERAL NOTES

1. DIMENSIONS NOTED "EQ" ARE EQUAL TO EACH OTHER ONLY IF THEY ARE ON THE SAME DIMENSION STRING AND IN THE SAME ROW
2. DO NOT SCALE DRAWINGS TO OBTAIN DIMENSIONS. REFER TO DRAWINGS FOR DIMENSIONS. REQUIRED CRITICAL DIMENSIONS NOT FOUND SHOULD BE FIELD VERIFIED OR OBTAINED FROM ARCHITECT. VERIFY ALL DIMENSIONS AND CONDITIONS IN FIELD (EXISTING AND PROPOSED CONSTRUCTION) AND BRING ANY DISCREPANCIES TO THE IMMEDIATE ATTENTION OF THE ARCHITECT
3. ALL WOOD COMPONENTS, ROUGH AND FINISHED, IN FIRE STAIR SHALL RECEIVE FIRE RETARDING TREATMENT (FRT)
4. ROOM NUMBERING IS FOR CONSTRUCTION PURPOSES ONLY. ACTUAL ROOM NUMBERING TO BE COORDINATED WITH OWNER PRIOR TO ANY SCHEDULING OR LABELING
5. REFER TO CODE CONFORMANCE DRAWINGS FOR REQUIRED FIRE RATED CONSTRUCTION
6. ALL DIMENSIONS ARE TO FACE OF MASONRY UNIT
7. VERIFY ALL DIMENSIONS IN THE FIELD. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BETWEEN CONTRACT DOCUMENTS AND FIELD CONDITIONS
8. ALL MASONRY DIMENSIONS ARE NOMINAL
9. EXTEND ALL PARTITIONS FROM FLOOR TO UNDERSIDE OF DECK ABOVE UNLESS OTHERWISE INDICATED. MAKE THIS JOINT SMOKE TIGHT AND FIRESTOP AT RATED PARTITIONS
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14. INTERIOR WALL TYPES ARE SHOWN ON THE FLOOR PLANS AND/OR DETAILS USING WALL TYPE SYMBOL (REFER TO SYMBOLS LEGEND)

C4 GENERAL NOTES
SCALE: NOT TO SCALE

PLAN NORTH

A1 DRY WELL FLOOR PLAN
SCALE: 1/4" = 1'-0"

0 2' 4' 8'

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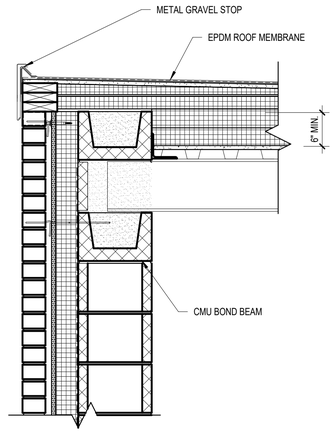
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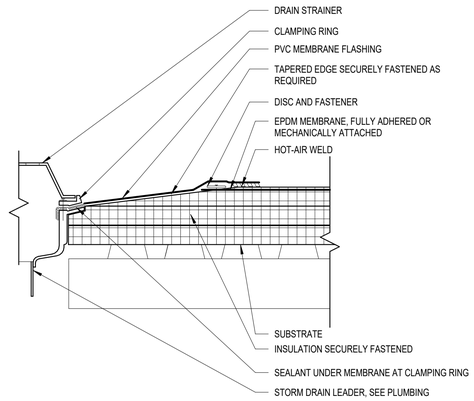
DRY WELL FLOOR PLAN

A-102

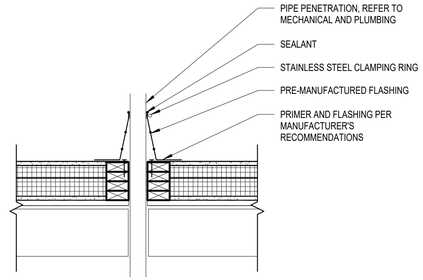
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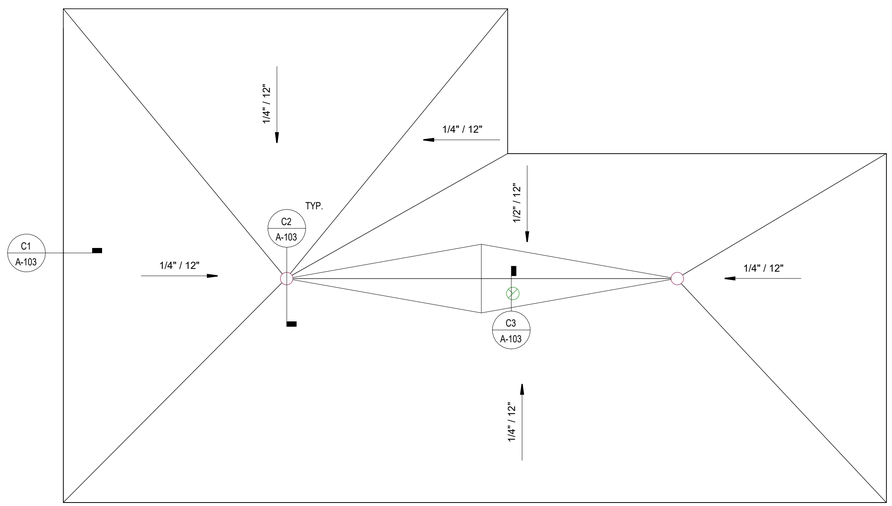
C1 DRIP EDGE
SCALE: 1" = 1'-0"



C2 ROOF DRAIN DETAIL
SCALE: 1 1/2" = 1'-0"



C3 ROOF PENETRATION DETAIL
SCALE: 1" = 1'-0"



A1 ROOF PLAN
SCALE: 1/4" = 1'-0"

PLAN NORTH

0 2' 4' 8'

GENERAL ROOF NOTES

1. PRIOR TO THE START OF THE WORK, THE CONTRACTOR SHALL SUBMIT A CONSTRUCTION SCHEDULE INCLUDING THE FOLLOWING FOR APPROVAL BY THE OWNER: MOBILIZATION SITE PREPARATION, SCAFFOLDING AND PEDESTRIAN PROTECTION, SEALANT WORK, PROJECT CLEAN UP, FINAL COMPLETION - ALL PUNCH LIST/OUTSTANDING ITEMS SATISFIED OTHER PROJECT-SPECIFIC MILESTONES, TASKS AND DATES
2. ALL OPERATIONS SHALL BE IN ACCORDANCE WITH ALL PERTINENT OSHA REGULATIONS
3. AT THE END OF EACH DAY OR UPON STOPPAGE OF WORK DURING INCLEMENT WEATHER, PROVIDE WEATHERPROOF CLOSURES FOR EXTERIOR OPENINGS AS REQUIRED TO PROTECT THE ONGOING WORK. SECURE ALL MATERIALS IN PROTECTED STATE AND LOCATION FROM WIND AND RAIN

B4 GENERAL ROOF NOTES
SCALE: NOT TO SCALE

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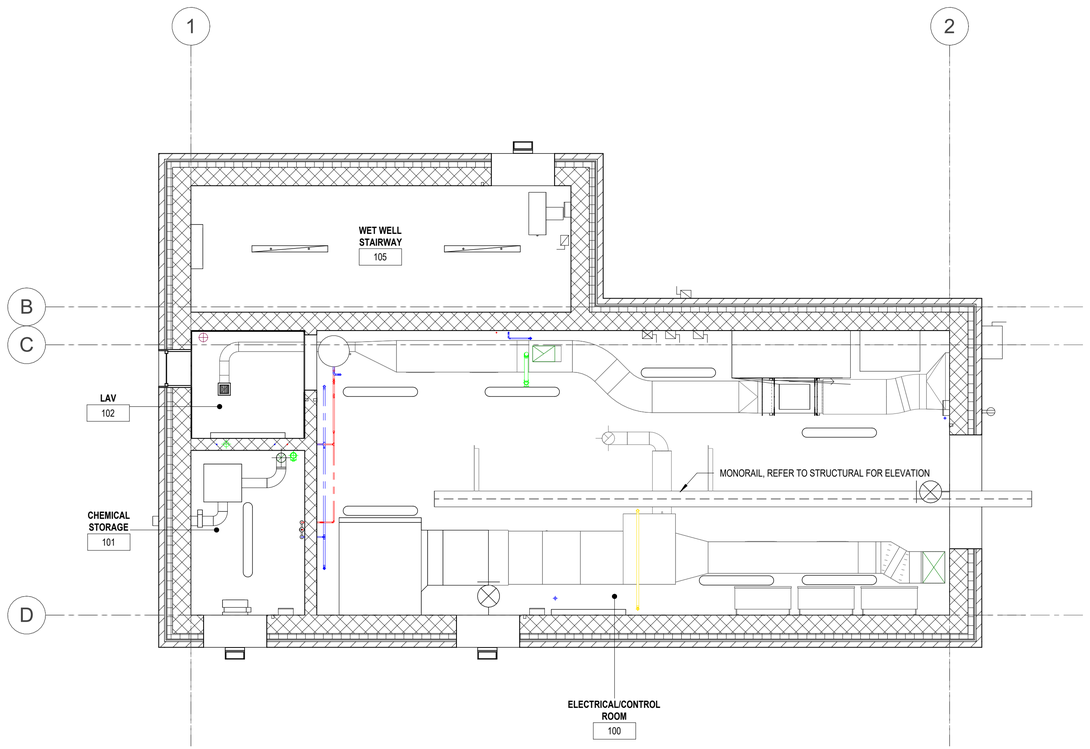
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ROOF PLAN

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PLAN NORTH

0 2' 4' 8'

A1 FIRST FLOOR - REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"

GENERAL RCP NOTES

1 MECHANICAL, MECHANICAL PROCESS, AND ELECTRICAL WORK IS SHOWN FOR REFERENCE ONLY. REFER TO M, MP, AND E DRAWINGS FOR MORE INFORMATION ON THE SCOPE OF THIS WORK

B4 GENERAL RCP NOTES
SCALE: NOT TO SCALE

REFLECTED CEILING PLAN LEGEND

- X'-X" — CEILING HEIGHT, ABOVE FINISH FLOOR
- RETURN DIFFUSER, SEE MECHANICAL
- PENDANT LIGHT FIXTURE, SEE ELECTRICAL
- PENDANT LIGHT FIXTURE, SEE ELECTRICAL
- EXIT LIGHTING, SEE ELECTRICAL

A4 REFLECTED CEILING PLAN LEGEND
SCALE: NOT TO SCALE

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CERTIFICATE OF AUTHORIZATION# 0023741

REGISTERED ARCHITECT MICHAEL W LAMONTAGNE 031950 STATE OF NEW YORK

REGISTRATION EXPIRES: 05/31/2028

ONEIDA COUNTY 1798 NEW YORK

TRIANGLE AREA CIVIL SITE DEVELOPMENT PUMP STATION
GRIFFISS INTERNATIONAL AIRPORT
ONEIDA COUNTY, ROME, NEW YORK

MARK	DATE	DESCRIPTION

REVISIONS

PROJECT NO:	146.205.011
DATE:	MARCH 6, 2026
DRAWN BY:	L. M. ROYER, AIA
DESIGNED BY:	L. M. ROYER, AIA
CHECKED BY:	A. BRUCE, AIA

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FIRST FLOOR REFLECTED CEILING PLAN

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FINISH AND ACCESSORIES SCHEDULE - EXTERIOR

CSI DIVISION	CSI SPECIFICATION SECTION	CODE	BASIS OF DESIGN	DESCRIPTION	COLOR/STYLE	TYPICAL LOCATIONS
04 - MASONRY						
04 - MASONRY	042200 - UNIT MASONRY	BRK1	GLEN GARY	MODULAR FACE BRICK	ANTIQUE RED	FIELD BRICK
08 - OPENINGS						
08 - OPENINGS	088000 - GLAZING	GL1	TRULITE	CLEAR, LOW-E	CLEAR	INSULATED GLAZING

FINISH LEGEND:

PCT1

ROOM FINISH KEY:

ROOM NAME
101
** | **
** | **
ROOM NUMBER
WALL FINISH
BASE
FLOORING

FINISH AND ACCESSORIES SCHEDULE - INTERIOR

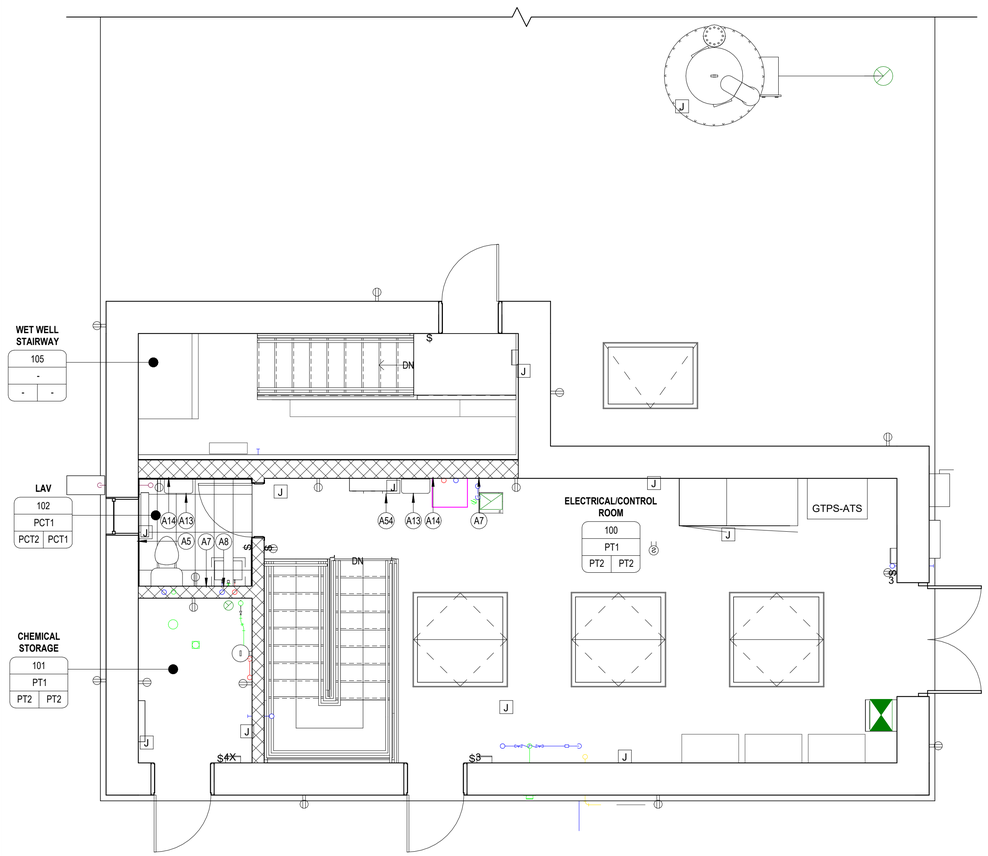
CSI SPECIFICATION SECTION	CODE	BASIS OF DESIGN	DESCRIPTION	COLOR/STYLE	TYPICAL LOCATIONS	GENERAL NOTES
09 - FINISHES						
093013 - PORCELAIN TILE	PCT1	CAESAR CERAMICS USA	12"X24" COSMIX	TO BE SELECTED BY ARCHITECT FROM MANUFACTURERS FULL RANGE OF COLORS.	RESTROOM FLOOR	
093013 - PORCELAIN TILE	PCT2	CAESAR CERAMICS USA	12"X24" COSMIX	TO BE SELECTED BY ARCHITECT FROM MANUFACTURERS FULL RANGE OF COLORS.	RESTROOM WALLS, FULL HEIGHT	
099123 – INTERIOR PAINTING	PT1	SHERWIN WILLIAMS	HIGH-PERFORMANCE EPOXY	TO BE SELECTED BY ARCHITECT FROM MANUFACTURERS FULL RANGE OF COLORS.	INTERIOR WALLS	
099123 – INTERIOR PAINTING	PT2	SHERWIN WILLIAMS	HIGH-PERFORMANCE EPOXY	TO BE SELECTED BY ARCHITECT FROM MANUFACTURERS FULL RANGE OF COLORS.	INTERIOR FLOORS	
10 - SPECIALTIES						
102800 - TOILET, BATH, AND LAUNDRY ACCESSORIES	A5	BRADLEY CORPORATION	SURFACE MOUNTED MULTI-ROLL TOILET TISSUE DISPENSER	MODEL #5224-00, METAL	RESTROOM	
102800 - TOILET, BATH, AND LAUNDRY ACCESSORIES	A7	BRADLEY CORPORATION	SOAP DISPENSER	MODEL #6501	RESTROOM, SERVICE SINK	
102800 - TOILET, BATH, AND LAUNDRY ACCESSORIES	A8	BRADLEY CORPORATION	MIRROR	MODEL #781	RESTROOM	
102800 - TOILET, BATH, AND LAUNDRY ACCESSORIES	A13	BRADLEY CORPORATION	TRASH RECEPTACLE	MODEL #356	RESTROOM	
102800 - TOILET, BATH, AND LAUNDRY ACCESSORIES	A14	BRADLEY CORPORATION	PAPER TOWEL DISPENSER	MODEL #252	RESTROOM, SERVICE SINK	
102800 - TOILET, BATH, AND LAUNDRY ACCESSORIES	A54	BRADLEY CORPORATION	UTILITY SHELF	MODEL #9986	SERVICE SINK	

C1 FINISH AND ACCESSORIES SCHEDULE - EXTERIOR

SCALE: NOT TO SCALE

C3 FINISH AND ACCESSORIES SCHEDULE - EXTERIOR

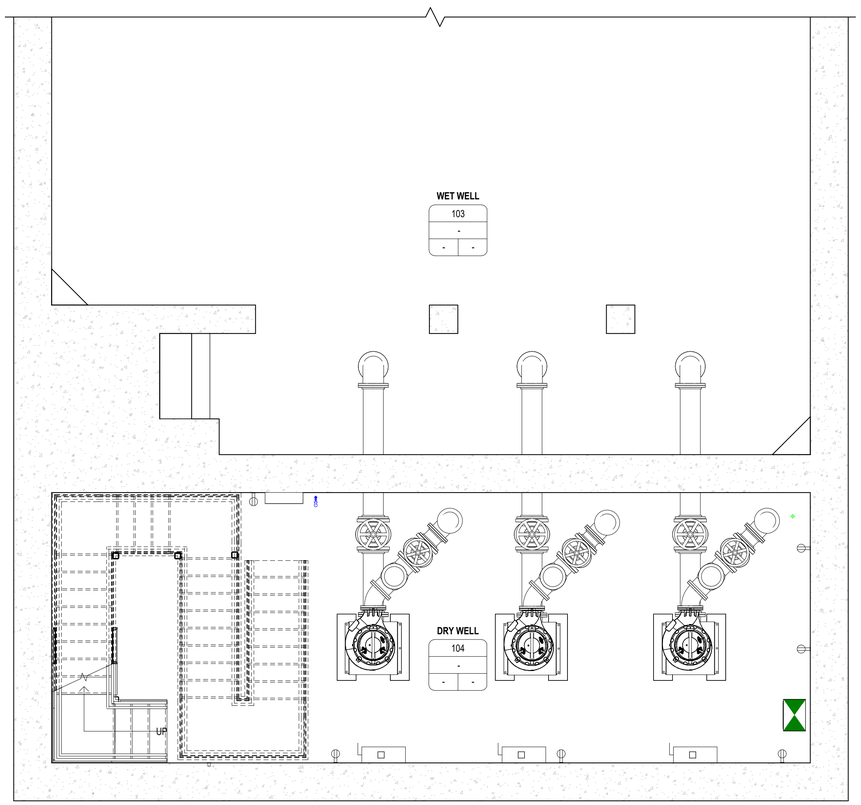
SCALE: NOT TO SCALE



A1 FIRST FLOOR - FLOOR PLAN - FINISH

SCALE: 1/4" = 1'-0"

0 2' 4' 8'



A3 SUBGRADE - FLOOR PLAN - FINISH

SCALE: 1/4" = 1'-0"

0 2' 4' 8'

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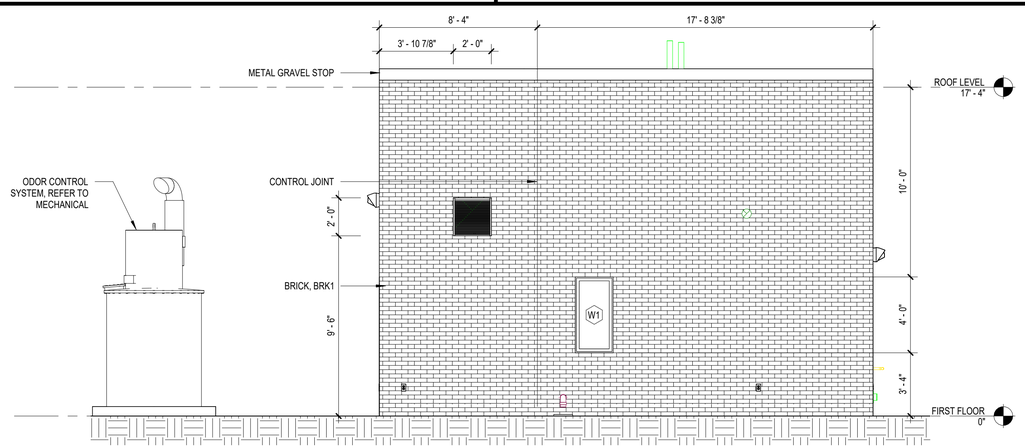
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FINISH AND ACCESSORIES SCHEDULE

A-160

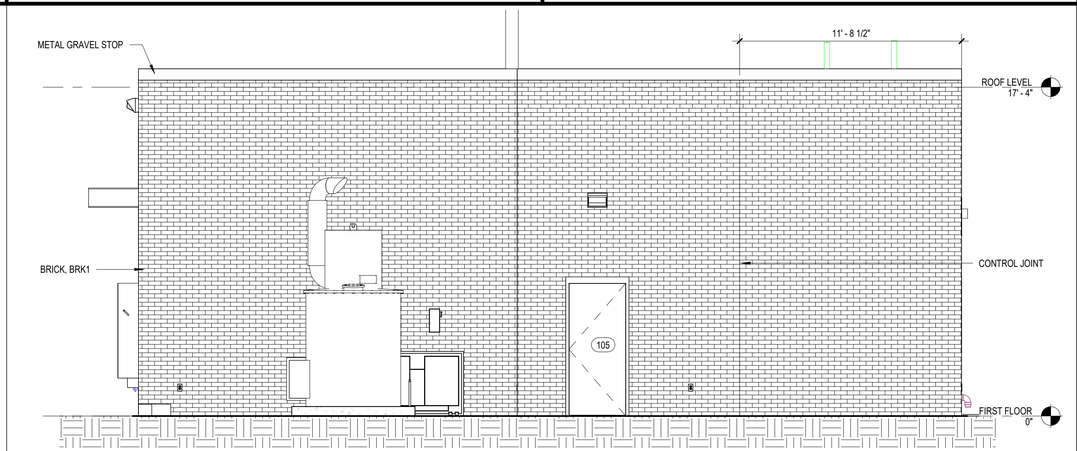
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C1 NORTH EXTERIOR ELEVATION

SCALE: 1/4" = 1'-0"

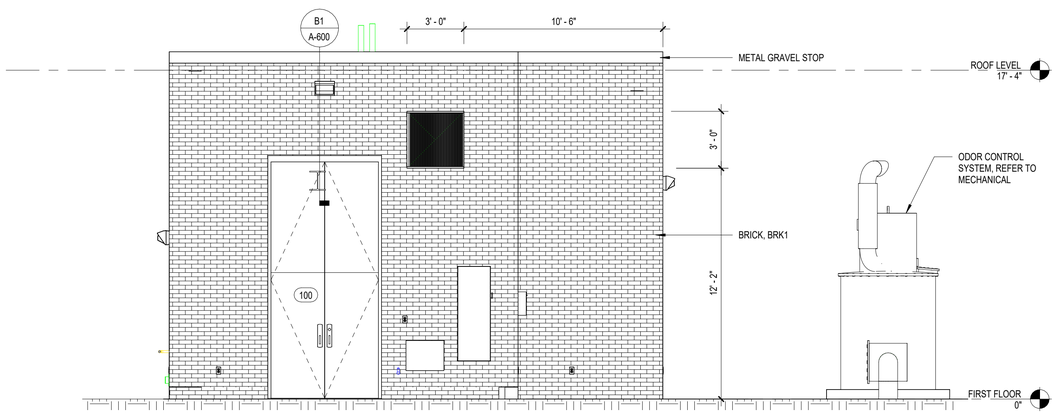
0 2' 4' 8'



C3 EAST EXTERIOR ELEVATION

SCALE: 1/4" = 1'-0"

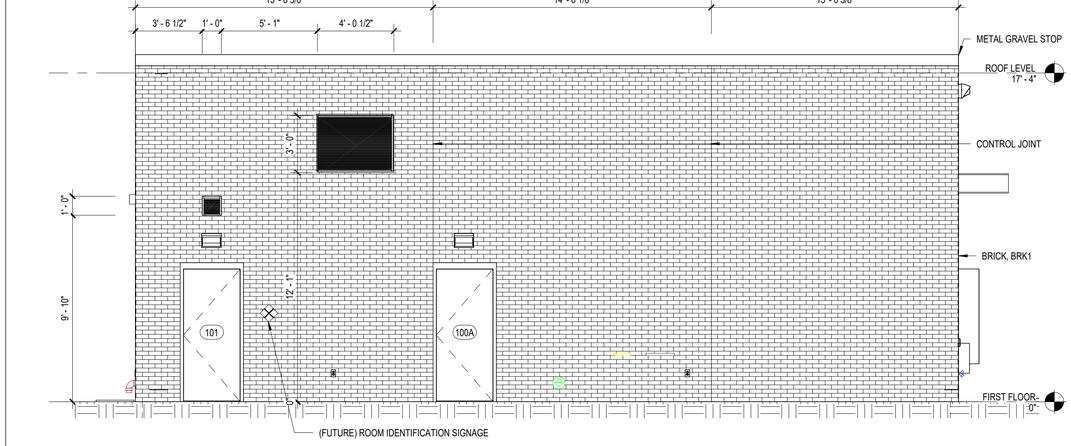
0 2' 4' 8'



B1 SOUTH EXTERIOR ELEVATION

SCALE: 1/4" = 1'-0"

0 2' 4' 8'



B3 WEST EXTERIOR ELEVATION

SCALE: 1/4" = 1'-0"

0 2' 4' 8'

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ELEVATIONS

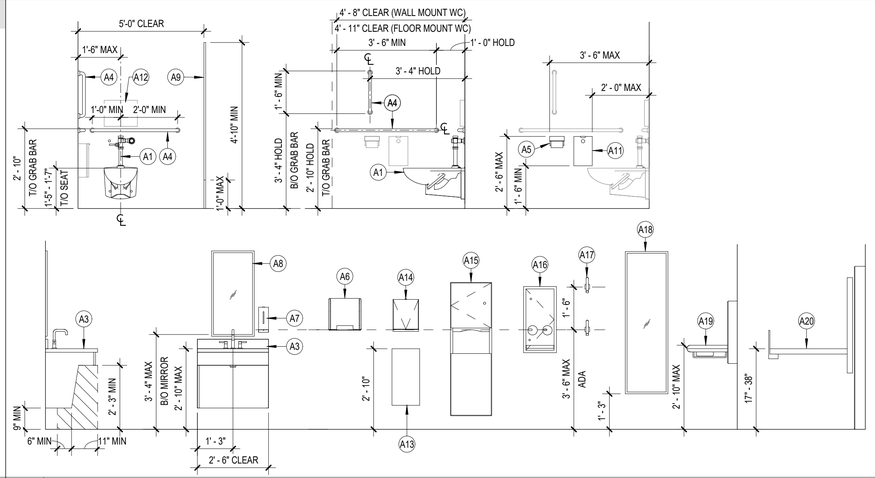
A-200

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GENERAL INTERIOR ELEVATION NOTES

2 ALL WALLS TO BE PAINTED UNLESS OTHERWISE NOTED
3 REFER TO FINISH SCHEDULE FOR BASE MATERIAL

C2 GENERAL INTERIOR ELEVATION NOTES
SCALE: NOT TO SCALE

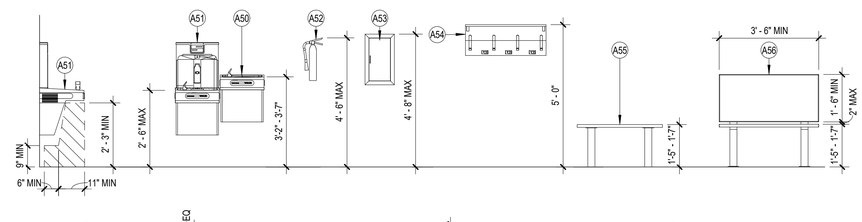


C3 TYPICAL ADULT RESTROOM ACCESSORIES MOUNTING HEIGHTS
SCALE: 3/8" = 1'-0"

FIXTURES & ACCESSORIES LEGEND	
A1	TOILET / WATER CLOSET
A2	URINAL
A3	LAVATORY
A4	LAVATORY GRAB BAR
A5	TOILET PAPER HOLDER
A6	HAND DRYER
A7	SOAP DISPENSER
A8	MIRROR, 18" X 36" TYP
A9	TOILET PARTITION
A10	URINAL SCREEN
A11	SANITARY NAPKIN DISPOSAL
A12	TOILET SEAT COVER DISPENSER
A13	TRASH RECEPTACLE
A14	PAPER TOWEL DISPENSER
A15	COMBINATION DRYING/WASTE UNIT
A16	SANITARY PRODUCT VENDOR
A17	COAT HOOOK
A18	FULL LENGTH MIRROR
A19	DIAPER CHANGING STATION
A20	ADULT CHANGING TABLE

NOTE: REFER TO MATERIALS & ACCESSORIES LEGEND FOR PRODUCT INFORMATION

0 4' 8' 16'



A3 TYPICAL ACCESSORIES AND DEVICES MOUNTING HEIGHTS
SCALE: 3/8" = 1'-0"

FIXTURES & ACCESSORIES LEGEND	
A50	DRINKING FOUNTAIN
A51	DRINKING FOUNTAIN, ADA
A52	FIRE EXTINGUISHER
A53	FIRE EXTINGUISHER CABINET
A54	UTILITY SHELF
A55	BENCH
A56	ACCESSIBLE BENCH
A57	CLOCK
A58	WALL MOUNTED EXIT SIGN
A59	LIGHTING CONTROL SWITCH
A60	OUTLET ABOVE COUNTER
A61	OUTLET AT FLOOR
A62	TELEPHONE / INTERCOM
A63	SPEAKER
A64	FA SYSTEM A/V DEVICE
A65	SMOKE / HEAT DETECTOR
A66	MANUAL PULL STATION
A67	EMERGENCY LIGHT

NOTE: REFER TO MATERIALS & ACCESSORIES LEGEND FOR PRODUCT INFORMATION

0 4' 8' 16'

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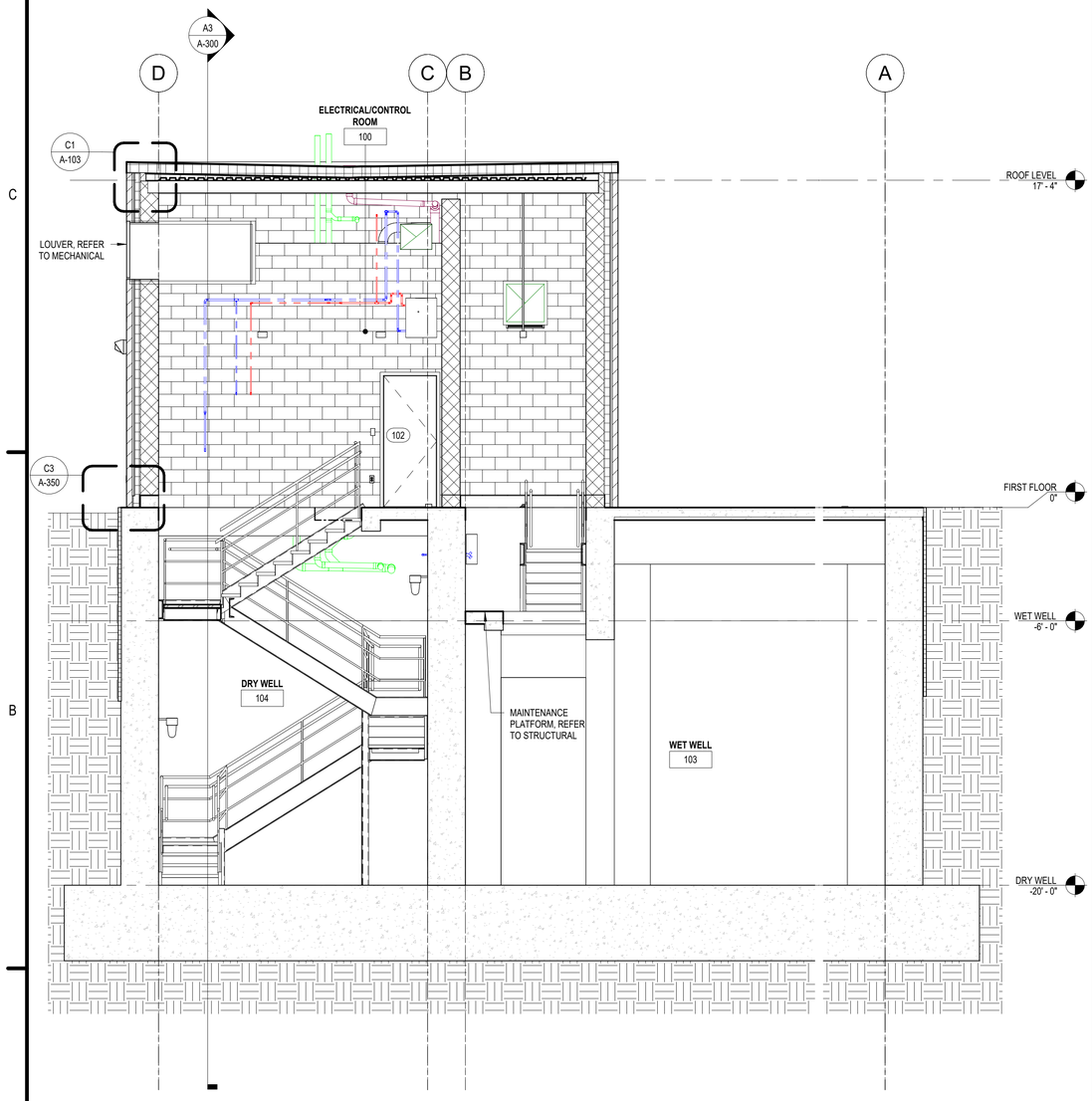
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TYPICAL MOUNTING HEIGHTS AND ELEVATIONS

A-250

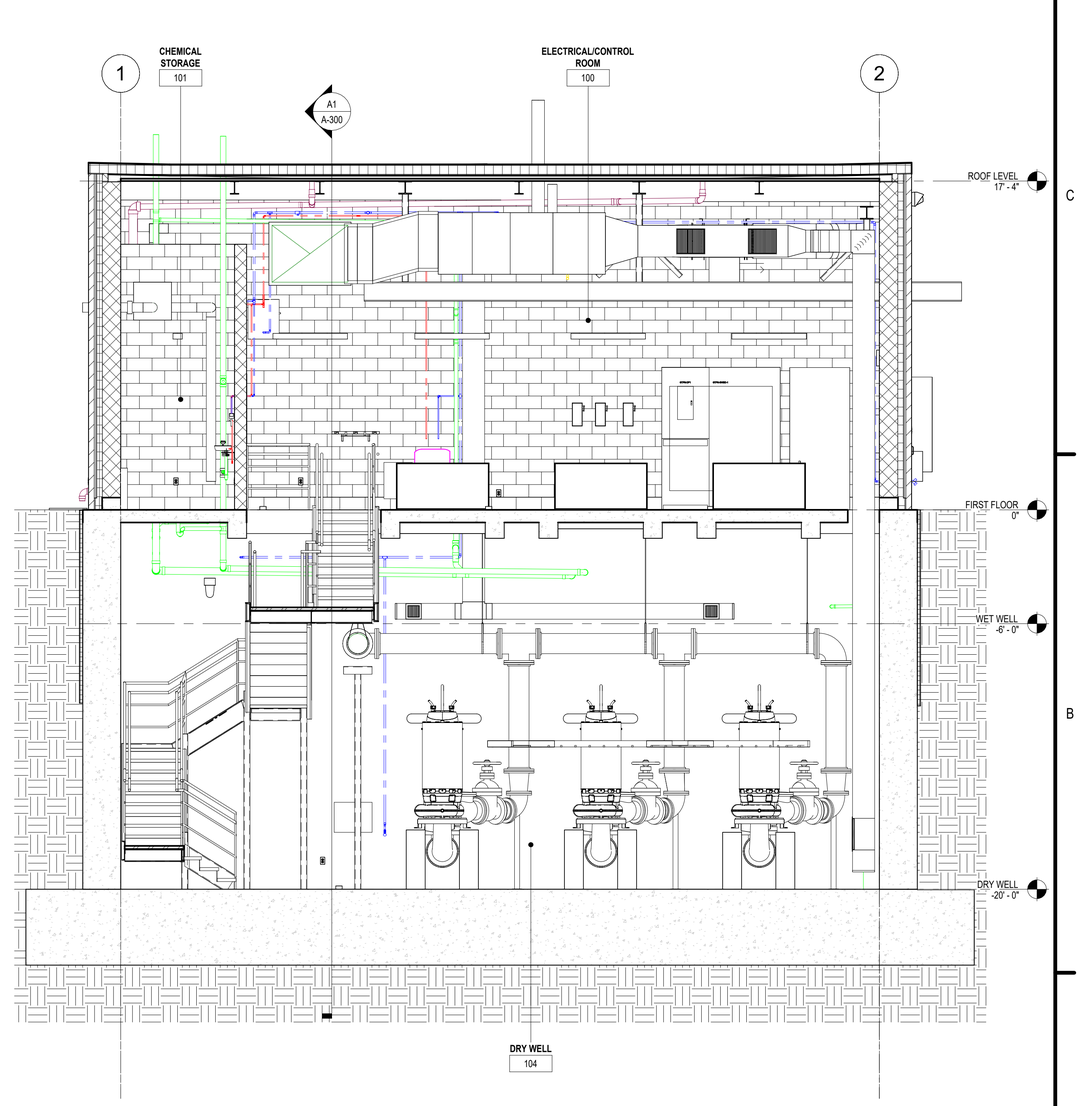
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A1 EAST- WEST BUILDING SECTION

SCALE: 1/4" = 1'-0"

0 4' 8' 16'



A3 NORTH-SOUTH BUILDING SECTION

SCALE: 1/4" = 1'-0"

0 4' 8' 16'

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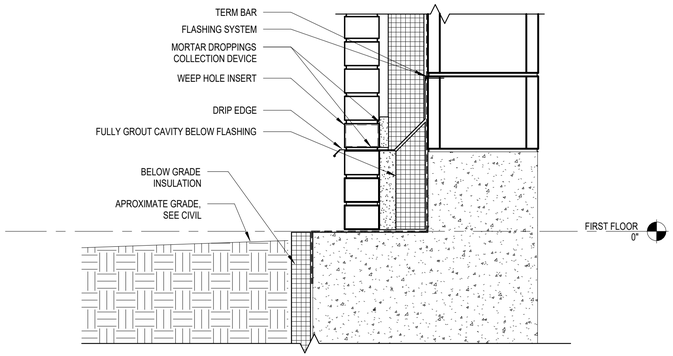
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BUILDING SECTIONS

A-300

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C3 **EXTERIOR WALL SILL DETAIL**
SCALE: 1 1/2" = 1'-0"

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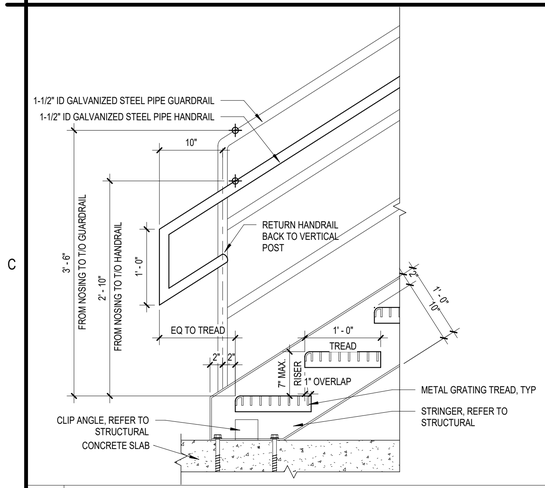
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ENLARGED DETAILS

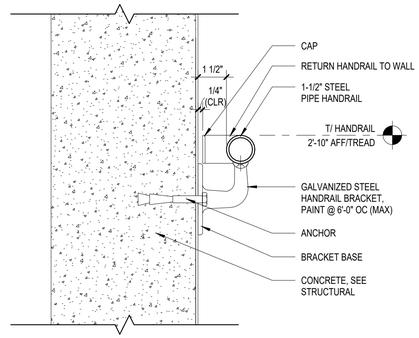
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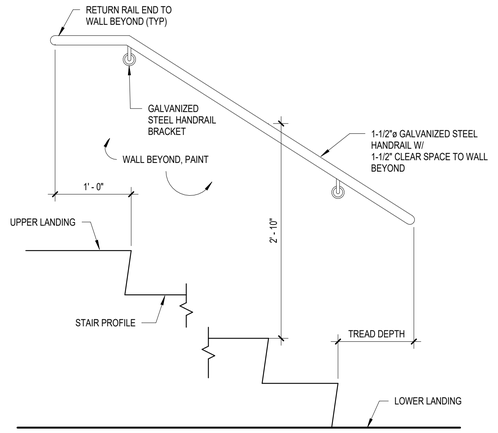
C1 GUARDRAIL - SECTION AT BOTTOM LANDING

SCALE: 1" = 1'-0"



C2 CONCRETE WALL-MOUNTED HANRDAIL

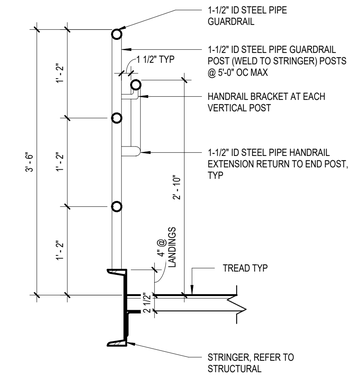
SCALE: 3" = 1'-0"



C3 WALL-MOUNTED HANDRAIL

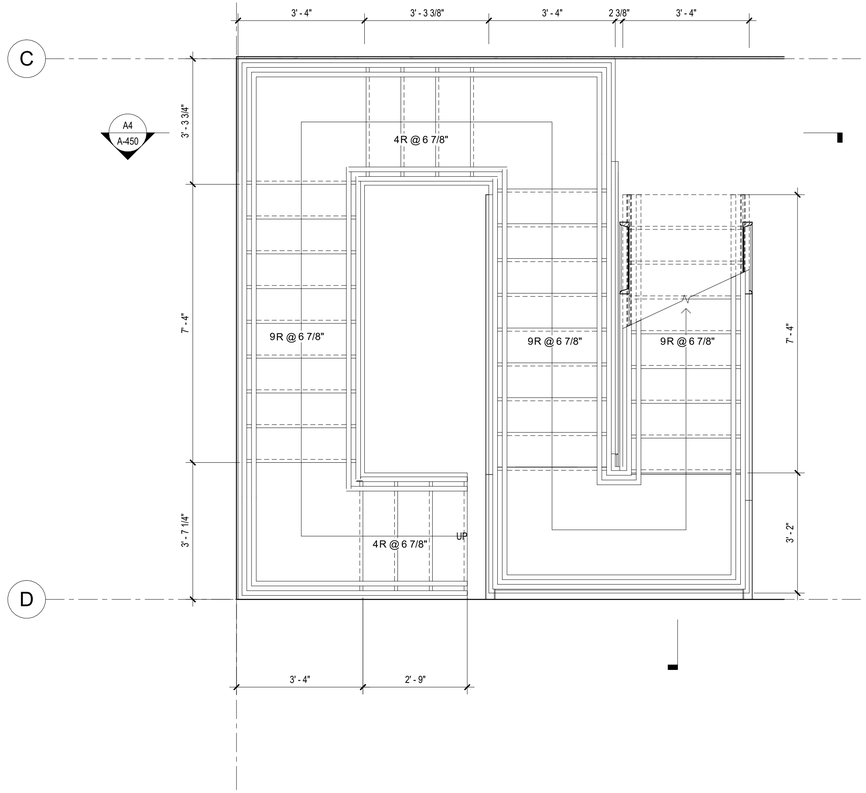
SCALE: 1" = 1'-0"

0 1/2' 1' 2'



C4 HORIZONTAL GUARDRAIL - CONNECTION AT LANDING

SCALE: 1" = 1'-0"

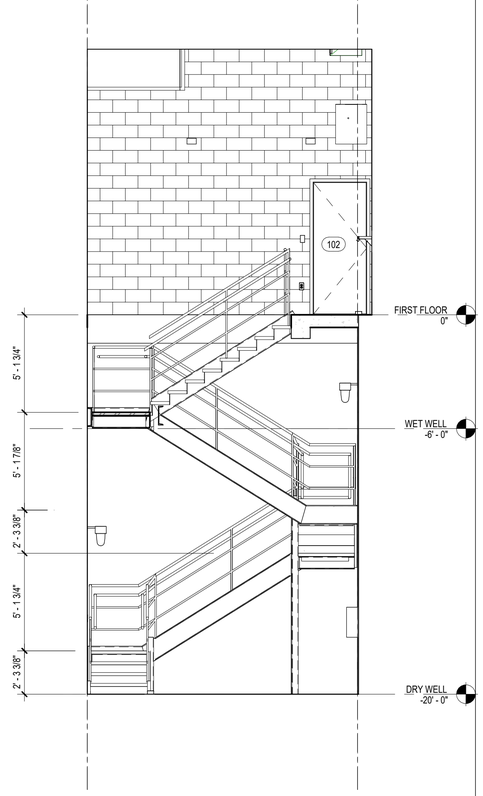


A1 DRY WELL ENLARGED STAIR PLAN

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

0 1' 2' 4'

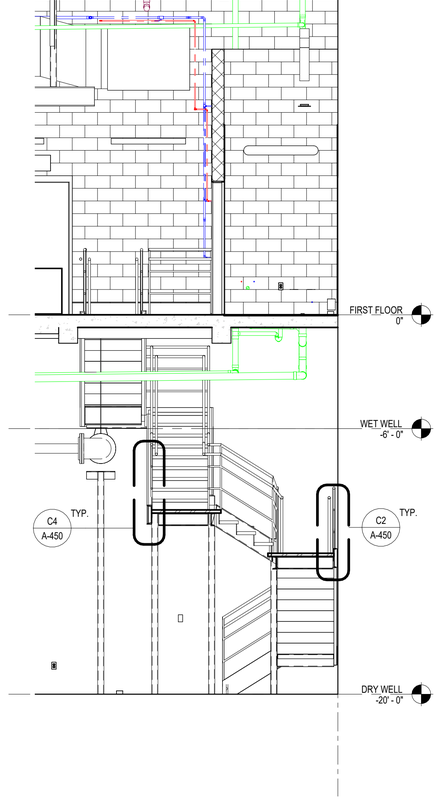
PLAN NORTH



A3 NORTH-SOUTH STAIR SECTION

SCALE: 1/4" = 1'-0"

0 2' 4' 8'



A4 EAST-WEST STAIR SECTION

SCALE: 1/4" = 1'-0"

0 2' 4' 8'

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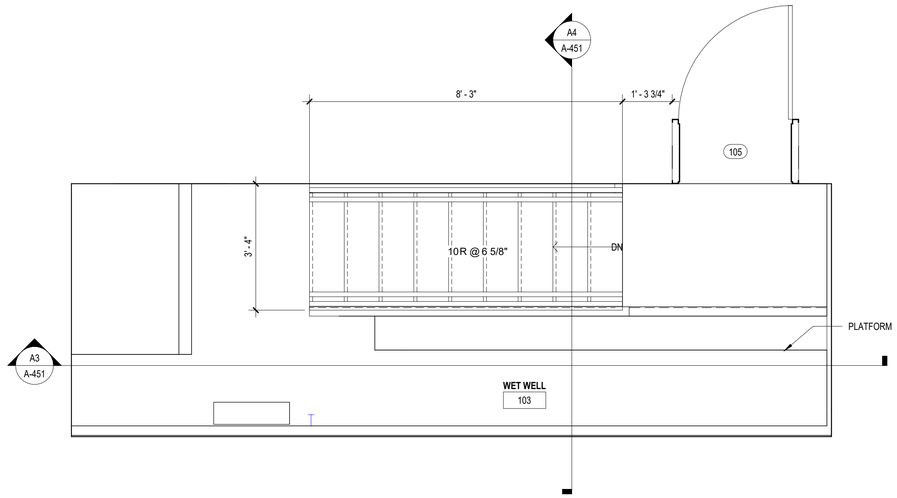
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STAIR/ELEVATOR PLANS/DETAILS

A-450

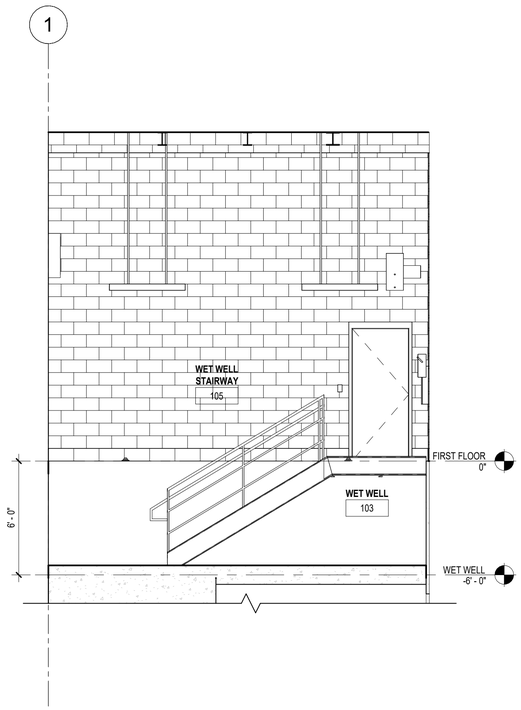
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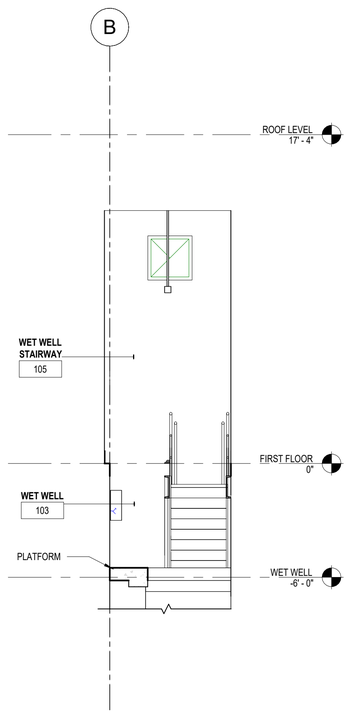
PLAN NORTH

A1 WET WELL ENLARGED STAIR PLAN
SCALE: 1/2" = 1'-0"

0 1' 2' 4'



A3 NORTH-SOUTH STAIR SECTION -WET WELL
SCALE: 1/4" = 1'-0"



A4 EAST-WEST STAIR SECTION - WET WELL
SCALE: 1/4" = 1'-0"

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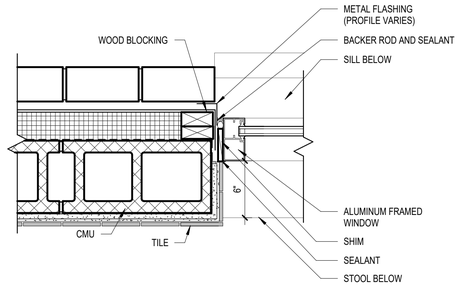
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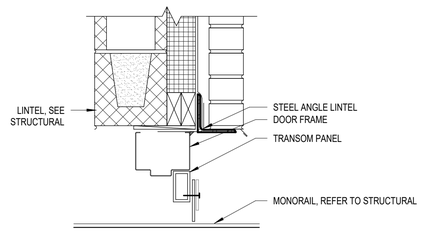
STAIR/ELEVATOR PLANS/DETAILS WET WELL

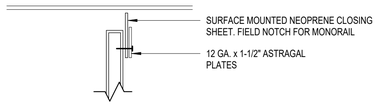
A-451

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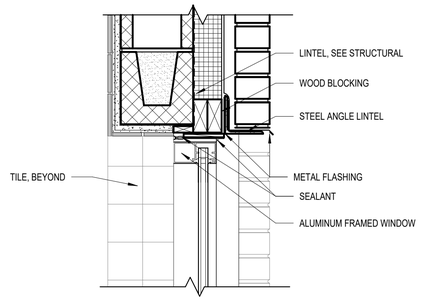


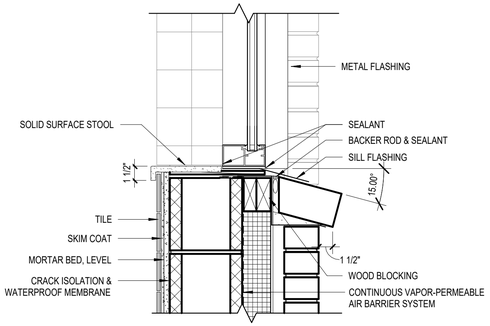
C1 WINDOW JAMB DETAIL AT CMU/TILE
SCALE: 1 1/2" = 1'-0"



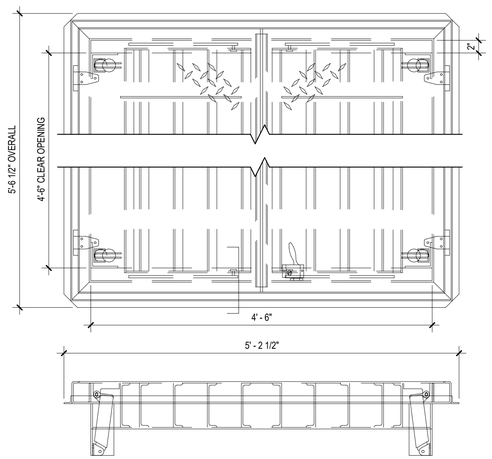


B1 DETAIL AT MONORAIL PENETRATION
SCALE: 1 1/2" = 1'-0"

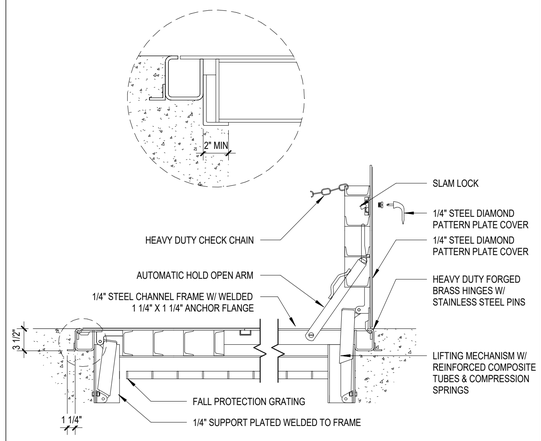




B2 WINDOW HEAD/SILL DETAIL AT CMU/TILE
SCALE: 1 1/2" = 1'-0"



A1 STEEL FLOOR ACCESS DOOR ENLARGED PLAN_2
SCALE: 1" = 1'-0"

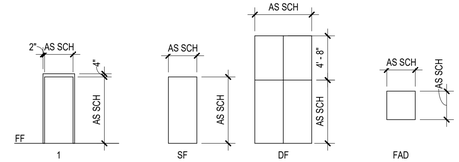


A2 STEEL FLOOR ACCESS DOOR SECTION
SCALE: 1" = 1'-0"

C3 DOOR SCHEDULE
SCALE: 1/8" = 1'-0"

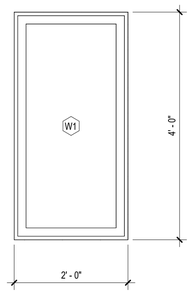
DOOR SCHEDULE

DOOR NO.	ROOM NO.	DOOR TYPE	DOOR WIDTH	DOOR HEIGHT	DOOR MATERIAL	DOOR FINISH	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	HARDWARE SET	NOTES
100	104	DF	5' - 8"	12' - 6"	HM	PT	1	HM	PT	1	REFER TO 081113 SPECIFICATION
100A	104	SF	3' - 0"	7' - 0"	HM	PT	1	HM	PT	2	
100B		FAD	4' - 6"	4' - 6"	STL	-	-	STL	-	4	
100C		FAD	4' - 6"	4' - 6"	STL	-	-	STL	-	4	
100D		FAD	4' - 6"	4' - 6"	STL	-	-	STL	-	4	
100E		FAD	3' - 0"	4' - 6"	STL	-	-	STL	-	4	
101	104	SF	3' - 0"	7' - 0"	HM	PT	1	HM	PT	2	
102	104	SF	2' - 10"	7' - 0"	HM	PT	1	HM	PT	3	
105	103	SF	3' - 0"	7' - 0"	HM	PT	1	HM	PT	2	

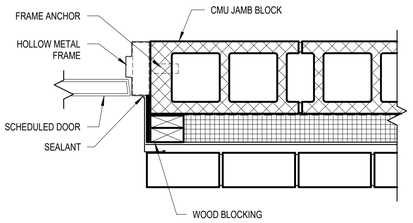


DOOR TYPE ABBREVIATIONS:

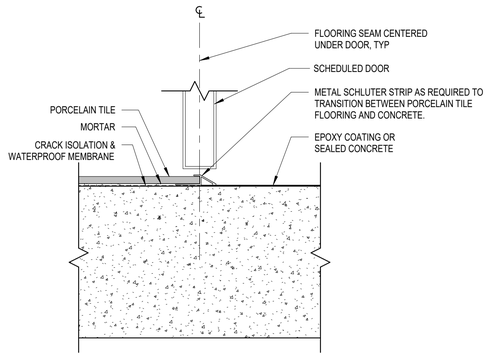
SF - SINGLE FLUSH
FAD - FLOOR ACCESS DOOR
DF - DOUBLE FLUSH



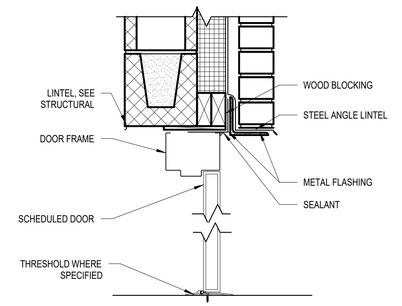
B3 W1 WINDOW ELEVATION
SCALE: 3/4" = 1'-0"



B4 DOOR JAMB DETAIL
SCALE: 1 1/2" = 1'-0"



A3 FLOOR TILE TRANSITION
SCALE: 3" = 1'-0"



A4 DOOR HEAD, JAMB AND THRESHOLD
SCALE: 1 1/2" = 1'-0"

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CERTIFICATE OF AUTHORIZATION# 0023741

REGISTERED ARCHITECT MICHAEL W LAMONTAGNE 031950 STATE OF NEW YORK

REGISTRATION EXPIRES: 05/31/2028

ONEIDA COUNTY 1798 NEW YORK

TRIANGLE AREA CIVIL SITE DEVELOPMENT PUMP STATION GRIFFISS INTERNATIONAL AIRPORT ONEIDA COUNTY, ROME, NEW YORK

MARK	DATE	DESCRIPTION
REVISIONS		

PROJECT NO:	146.205.011
DATE:	MARCH 6, 2026
DRAWN BY:	L. M. ROYER, AIA
DESIGNED BY:	L. M. ROYER, AIA
CHECKED BY:	A. BRUCE, AIA

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DOOR/WINDOW SCHEDULES, ELEVATIONS, SECTIONS AND DETAILS

A-600

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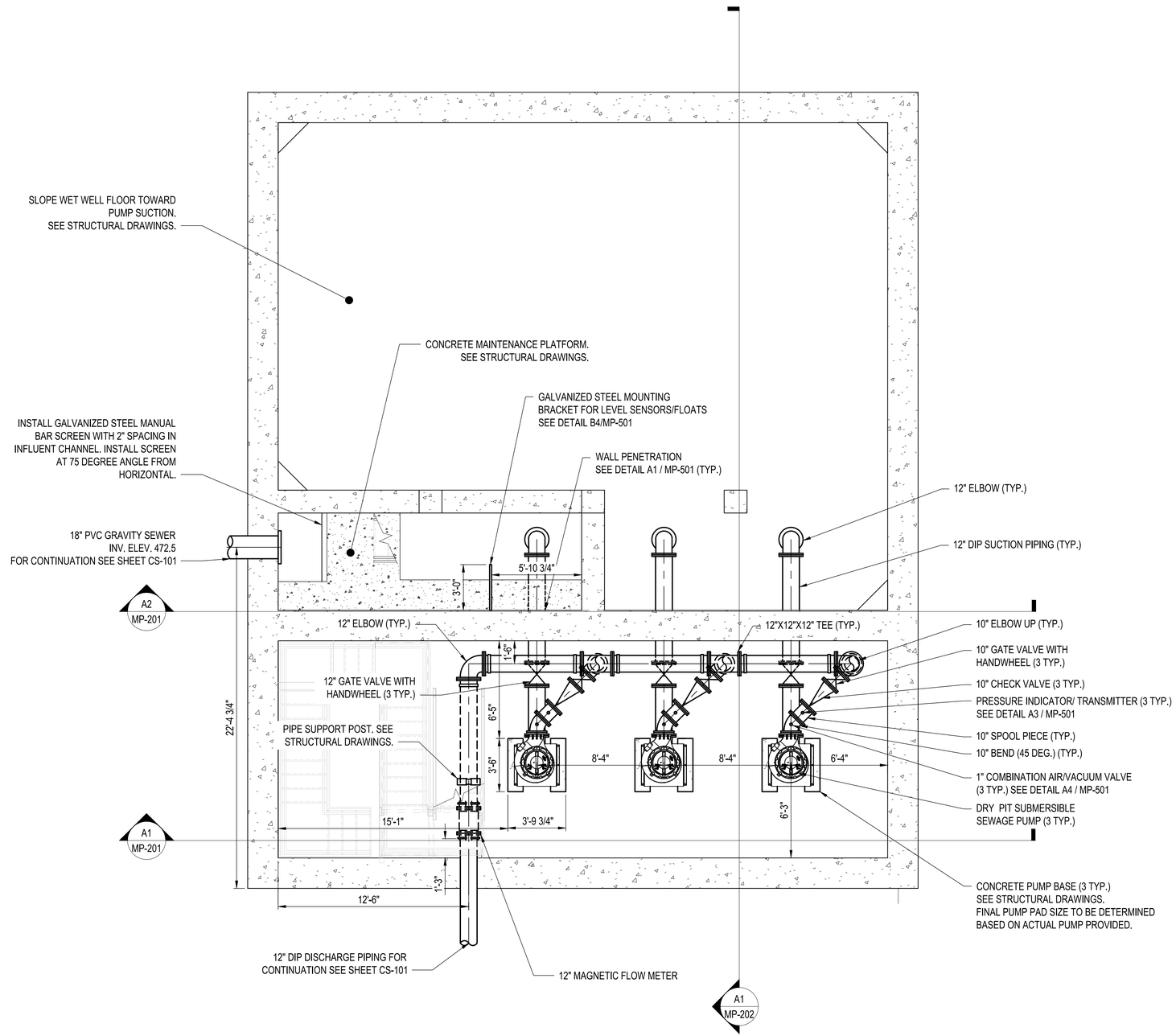
B1 NOT USED

NOT TO SCALE

1. ITEMS OF SPECIFIC MANUFACTURERS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE PRINTED INSTRUCTIONS AND/OR MANUFACTURER'S RECOMMENDATIONS.
2. SUPPORT AND EQUIPMENT DETAILS MAY VARY TO SUIT EQUIPMENT AND PARTS SUPPLIED.
3. WORK ON MP-SERIES DRAWINGS IS BY THE GENERAL CONTRACTOR UNLESS OTHERWISE NOTED.
4. VERIFY ALL LOCATIONS, DIMENSIONS, EQUIPMENT ARRANGEMENTS, CLEARANCES AND ELECTRICAL CHARACTERISTICS PRIOR TO BID. PROMPTLY NOTIFY ENGINEER OF ANY DISCREPANCIES.
5. PRIOR TO CUTTING THROUGH FLOORS AND WALLS, THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL STRUCTURAL MEMBERS, JOISTS AND/OR COLUMNS. PROMPTLY NOTIFY THE ENGINEER OF ANY DISCREPANCIES. DO NOT CUT ANY STRUCTURAL MEMBERS UNLESS SPECIFICALLY AUTHORIZED TO DO SO.
6. ALL HANGARS, BRACKETS, OR BRACES FOR EQUIPMENT AND PIPING ARE NOT INDICATED ON THE DRAWINGS. REFER TO THE SPECIFICATION SECTION 402850 FOR SUPPORT REQUIREMENTS NOT SHOWN ON THE PLANS.
7. ALL EQUIPMENT AND PIPING SHALL BE ROUTED TO AVOID INTERFERENCES WITH STRUCTURE, OTHER PIPING, EQUIPMENT, DUCTWORK, AND CONDUIT. UNLESS SPECIFICALLY DIMENSIONED, THE PIPE AND EQUIPMENT ROUTING SHOWN IS INTENDED TO INDICATE GENERAL LOCATION ONLY.
8. ALL PIPING SHALL BE ROUTED AS HIGH AS POSSIBLE WITH A MINIMUM HEIGHT OF 8'-0" ABOVE FINISHED FLOOR UNLESS OTHERWISE INDICATED BY A CENTERLINE, INVERT, OR BOTTOM OF PIPE ELEVATION.

A1 GENERAL NOTES

NOT TO SCALE



PLAN NORTH

A2 BASEMENT MECHANICAL PROCESS PLAN

SCALE: 1/4" = 1'

1/4" 1 0 1 3 5 7 9 11FT.

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CERTIFICATE OF AUTHORIZATION #: 0021365

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REGISTRATION EXPIRES: 02/28/29

ONEIDA COUNTY · 1798 · NEW YORK

TRIANGLE AREA CIVIL SITE DEVELOPMENT PUMP STATION
GRIFFISS INTERNATIONAL AIRPORT
ONEIDA COUNTY, ROME, NEW YORK

MARK	DATE	DESCRIPTION

REVISIONS

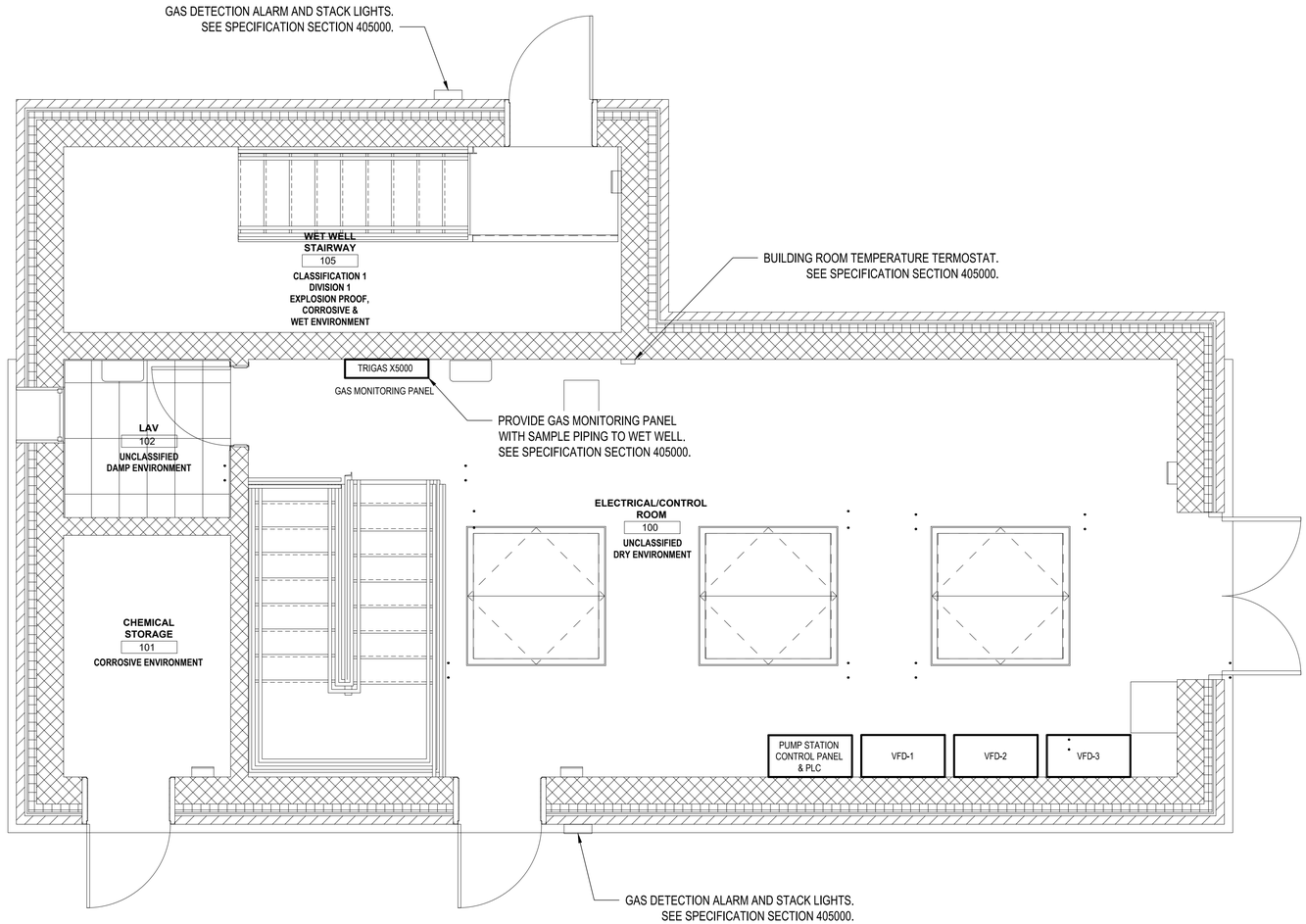
PROJECT NO:	146.205.011
DATE:	MARCH 6, 2026
DRAWN BY:	N. TOLESON
DESIGNED BY:	E. PROCOPIO, P.E.
CHECKED BY:	B. DUCLOS, P.E.

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GENERAL NOTES AND BASEMENT PLAN

MP-101

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1. PANELS AND EQUIPMENT SHOWN ON THIS PLAN SHALL BE FURNISHED AND INSTALLED BY THE GENERAL CONTRACTOR. COORDINATE FINAL LOCATIONS WITH OTHER WORK TO BE PROVIDED UNDER ELECTRICAL CONTRACT.
2. ELECTRICAL CONTRACTOR SHALL SUPPLY ALL POWER AND CONTROL CONDUIT AND WIRING FOR PANELS AND EQUIPMENT SHOWN ON THIS PLAN. REFER TO ELECTRICAL DRAWINGS.

PLAN NORTH

A1 CONTROL ROOM PLAN
SCALE: 3/8" = 1'

3/8" 1 0 1 2 3 4 5 6 7FT.

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REGISTRATION EXPIRES: 02/28/29

ONEIDA COUNTY 1798 NEW YORK

TRIANGLE AREA CIVIL SITE DEVELOPMENT PUMP STATION GRIFFISS INTERNATIONAL AIRPORT ONEIDA COUNTY, ROME, NEW YORK

MARK	DATE	DESCRIPTION

REVISIONS

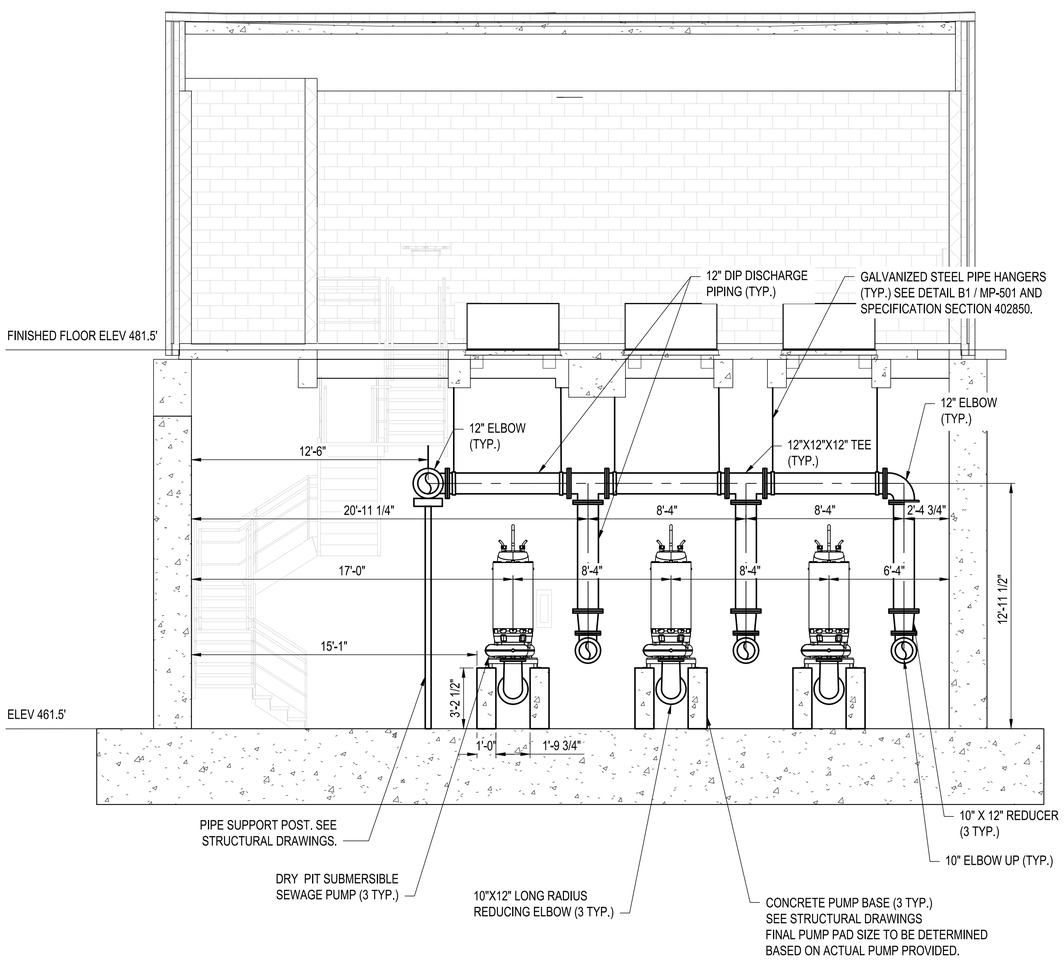
PROJECT NO:	146.205.011
DATE:	MARCH 6, 2026
DRAWN BY:	N. TOLESON
DESIGNED BY:	E. PROCOPIO, P.E.
CHECKED BY:	B. DUCLOS, P.E.

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CONTROL ROOM PLAN

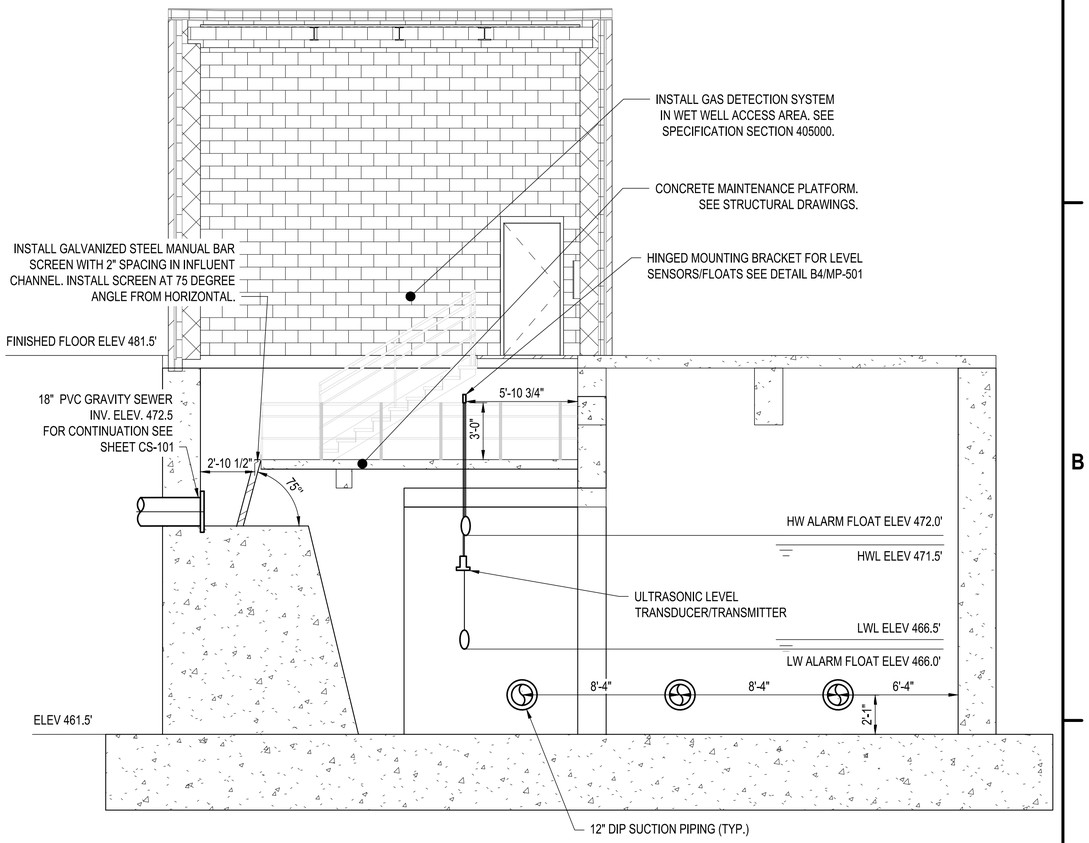
MP-102

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A1 **SECTION**
SCALE: 1/4" = 1'

1/4" 1 0 1 3 5 7 9 11FT.



A2 **SECTION**
SCALE: 1/4" = 1'

1/4" 1 0 1 3 5 7 9 11FT.

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TRIANGLE AREA CIVIL SITE DEVELOPMENT PUMP STATION GRIFFISS INTERNATIONAL AIRPORT ONEIDA COUNTY, ROME, NEW YORK

MARK	DATE	DESCRIPTION

REVISIONS

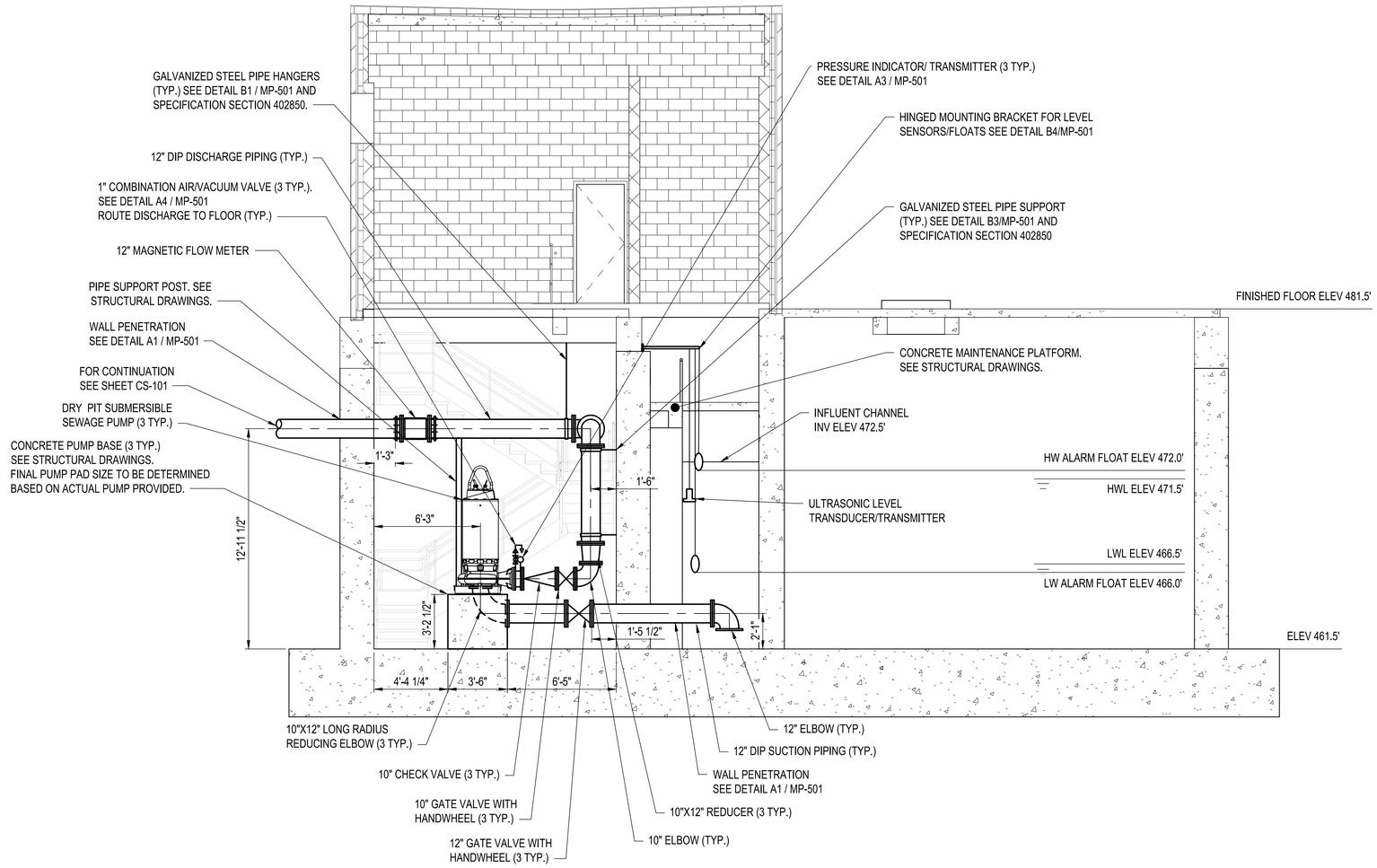
PROJECT NO:	146.205.011
DATE:	MARCH 6, 2026
DRAWN BY:	N. TOLESON
DESIGNED BY:	E. PROCOPIO, P.E.
CHECKED BY:	B. DUCLOS, P.E.

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SECTIONS

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A1 SECTION
SCALE: 1/4" = 1'

1/4" 1 0 1 3 5 7 9 11FT.

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ONEIDA COUNTY 1798 NEW YORK

TRIANGLE AREA CIVIL SITE DEVELOPMENT PUMP STATION GRIFFISS INTERNATIONAL AIRPORT ONEIDA COUNTY, ROME, NEW YORK

MARK	DATE	DESCRIPTION
		REVISIONS

PROJECT NO:	146.205.011
DATE:	MARCH 6, 2026
DRAWN BY:	N. TOLESON
DESIGNED BY:	E. PROCOPIO, P.E.
CHECKED BY:	B. DUCLOS, P.E.

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SECTIONS

MP-202

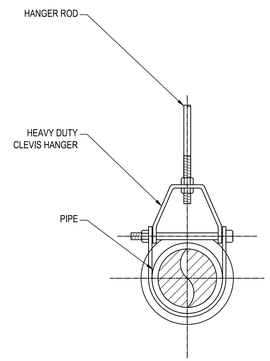
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C1 NOT USED
NOT TO SCALE

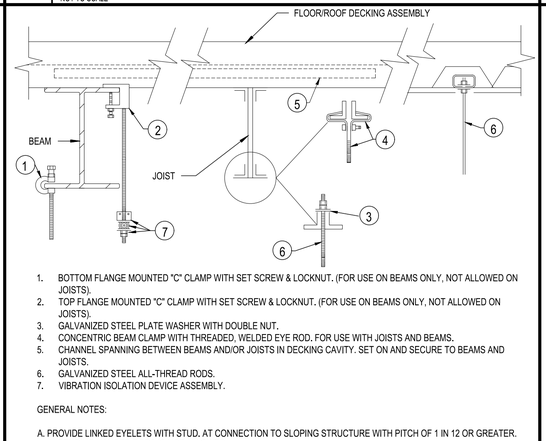
C2 NOT USED
NOT TO SCALE

C3 NOT USED
NOT TO SCALE

C4 NOT USED
NOT TO SCALE



B1 CLEVIS HANGER
NOT TO SCALE

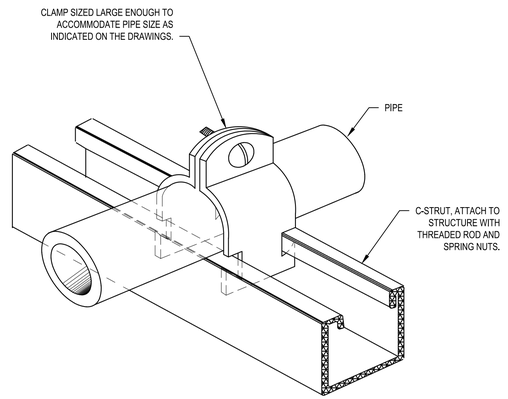


1. BOTTOM FLANGE MOUNTED "C" CLAMP WITH SET SCREW & LOCKNUT. (FOR USE ON BEAMS ONLY, NOT ALLOWED ON JOISTS).
2. TOP FLANGE MOUNTED "C" CLAMP WITH SET SCREW & LOCKNUT. (FOR USE ON BEAMS ONLY. NOT ALLOWED ON JOISTS).
3. GALVANIZED STEEL PLATE WASHER WITH DOUBLE NUT.
4. CONCENTRIC BEAM CLAMP WITH THREADED, WELDED EYE ROD, FOR USE WITH JOISTS AND BEAMS.
5. CHANNEL SPANNING BETWEEN BEAMS AND/OR JOISTS IN DECKING CAVITY. SET ON AND SECURE TO BEAMS AND JOISTS.
6. GALVANIZED STEEL ALL-THREAD RODS.
7. VIBRATION ISOLATION DEVICE ASSEMBLY.

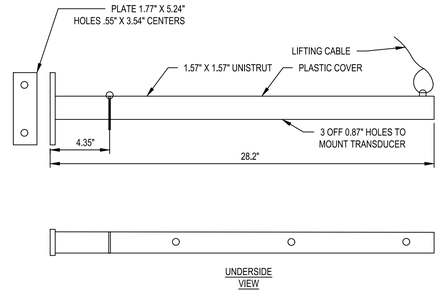
GENERAL NOTES:

A. PROVIDE LINKED EYELETS WITH STUD, AT CONNECTION TO SLOPING STRUCTURE WITH PITCH OF 1 IN 12 OR GREATER. BENDING HANGER RODS IS NOT ALLOWED.

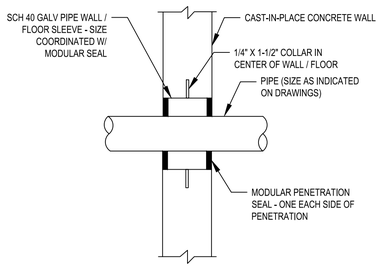
B2 HANGER ATTACHMENT DETAIL
NOT TO SCALE



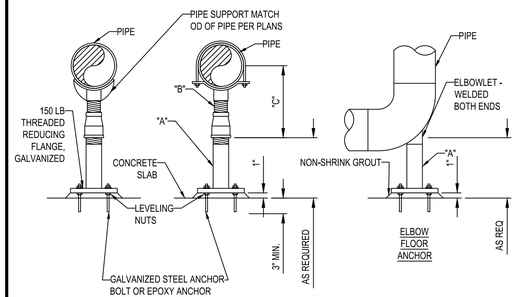
B3 UNISTRUT PIPING DETAIL
NOT TO SCALE



B4 HINGED MOUNTING BRACKET DETAIL
NOT TO SCALE

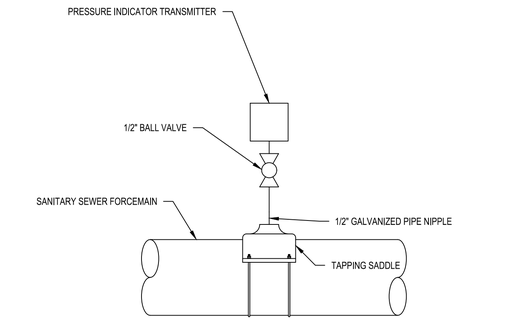


A1 CONCRETE WALL AND FLOOR SLEEVE DETAIL
NOT TO SCALE



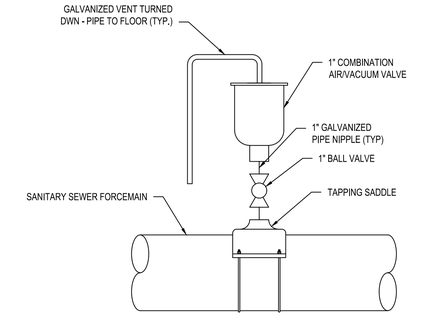
PIPE SIZE	"A" DIA (INCH)	"B" DIA (INCH)
2	1 1/2	1 1/2
3	2	1 1/2
4	3	2 1/2
6	3	2 1/2
8	3	2 1/2
10	3	2 1/2
12	3	2 1/2

A2 PIPE STAND DETAIL
NOT TO SCALE



1. REFER TO ELECTRICAL DRAWINGS FOR POWER AND CONTROL WIRING.

A3 PRESSURE TRANSMITTER / GAUGE DETAIL
NOT TO SCALE



A4 PIPELINE COMBINATION AIR/VACUUM VALVE DETAIL
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CERTIFICATE OF AUTHORIZATION #: 0021365

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REGISTRATION EXPIRES: 02/28/29

ONEIDA COUNTY · 1798 · NEW YORK

TRIANGLE AREA CIVIL SITE DEVELOPMENT PUMP STATION GRIFFISS INTERNATIONAL AIRPORT ONEIDA COUNTY, ROME, NEW YORK

MARK	DATE	DESCRIPTION

REVISIONS

PROJECT NO: 146.205.011
DATE: MARCH 6, 2026
DRAWN BY: N. TOLESON
DESIGNED BY: E. PROCOPIO, P.E.
CHECKED BY: B. DUCLOS, P.E.

NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK EDUCATION LAW

DETAILS

MP-501

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GENERAL NOTES

1. THE ENTIRE PLUMBING SYSTEM SHALL BE IN ACCORDANCE WITH THE 2025 BUILDING CODE OF NYS, 2025 PLUMBING CODE OF NYS, 2025 FUEL GAS CODE OF NYS, 2025 ENERGY CONSERVATION CODE OF NYS, OSHA REGULATIONS AND REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.
2. PROVIDE ALL WORK IN COMPLIANCE WITH ALL LOCAL, STATE AND FEDERAL CODES. OBTAIN ALL REQUIRED PERMITS.
3. PROVIDE ALL REQUIRED EXCAVATION, BACKFILL AND COMPACTION FOR ALL UNDERGROUND WORK.
4. FIELD VERIFY EXACT LOCATION, DEPTH, COMPOSITION AND CONDITION OF ALL PIPING, VALVES AND SYSTEMS AS REQUIRED FOR WORK OF THE CONTRACT.
5. PROVIDE SCHEDULE 40 GALVANIZED STEEL PIPE SLEEVES FOR ALL UNDERGROUND PIPING PASSING THROUGH OR UNDER FOOTINGS, WALLS, FOUNDATION WALLS, SLABS FLOORS AND/OR UNDERGROUND STRUCTURES. REFER TO THE PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
6. WHERE PIPING IS LOCATED OVER FOOTINGS AND/OR OTHER UNDERGROUND STRUCTURES, ROLL DOWN AS REQUIRED TO CONNECT TO SYSTEMS NOTED. PROVIDE ALL REQUIRED OFFSETS, FITTINGS AND CONNECTIONS.
7. PITCH ALL SANITARY, WASTE, AND STORM PIPING AS FOLLOWS: PIPING 3" AND SMALLER, PITCH AT 2 PERCENT (1/4" PER FOOT) MINIMUM, PIPING 4" AND LARGER, PITCH AT 1 PERCENT (1/8" PER FOOT) MINIMUM.
8. CONNECT TO SITE PIPING OUTSIDE BUILDING AS SHOWN. PROVIDE ALL REQUIRED OFFSETS, FITTINGS AND CONNECTIONS. FIELD VERIFY EXACT LOCATION, DEPTH AND COMPOSITION OF SITE SERVICES AND COORDINATE ALL WORK WITH CONTRACT GC-01.
9. COORDINATE ALL VENT TERMINATIONS ABOVE ROOF WITH CONTRACT MC-01. ALL VENT TERMINATIONS ABOVE ROOF SHALL BE A MINIMUM 25'-0" AWAY FROM ANY HVAC OUTSIDE AIR INTAKE (ROOFTOP UNIT, LOUVER, ETC.).
10. PROVIDE BARRIER TYPE SEAL DEVICE ON ALL FLOOR DRAINS.
11. REFER TO ARCHITECTURAL DRAWINGS AND THE PROJECT SPECIFICATIONS FOR ANY PROJECT PHASING REQUIREMENTS.
12. THE EXISTING PIPING INDICATED ON THESE PLANS SHALL BE VERIFIED IN THE FIELD FOR EXACT LOCATIONS, QUANTITY, AND PIPE SIZES.
13. THE PIPING INDICATED ON THESE PLANS ARE DIAGRAMATIC. ALL WORK SHALL BE COORDINATED WITH OTHER CONTRACTS PRIOR TO INSTALLATION. CONTRACT PC-01 SHALL COORDINATE ROUTING OF ALL PIPING WITH EXISTING CONDITIONS AND SHALL PROVIDE ANY NECESSARY OFFSETS, REROUTING, TEES, ELBOWS, ETC. REQUIRED FOR A COMPLETE AND COORDINATED INSTALLATION.
14. CONTRACT PC-01 SHALL OBTAIN AND PAY ALL FEES RELATED TO PERMITTING, INSPECTIONS, TAP-ON FEES, ETC, NOT COVERED BY THE OWNER.
15. CONTRACT PC-01 SHALL COORDINATE AND PROVIDE ALL NECESSARY PIPING & PLUMBING FITTINGS, PIPING, MISCELLANEOUS ITEMS REQUIRED FOR A COMPLETE INSTALLATION OF ALL PLUMBING RELATED ITEMS.
16. ALL WORK SHALL BE COORDINATED WITH THE EQUIPMENT.
17. CONTRACT PC-01 SHALL COORDINATE THE INSTALLATION OF ALL UNDER SLAB PIPING WITH EXISTING STRUCTURAL FOUNDATIONS. UNDERGROUND UTILITY LOCATIONS SHALL BE VERIFIED PRIOR TO ANY WORK BEING PERFORMED. CONTRACT PC-01 SHALL REPAIR OR REPLACE ALL PIPING NOT IN PROPER WORKING ORDER OR DAMAGED DURING INSTALLATION OF THE NEW UNDERSLAB PIPING.
18. ALL PLUMBING & PIPING SYSTEMS SHALL BE SUPPORTED AS REQUIRED BY THE STATE AND LOCAL CODE REQUIREMENTS AND PER MANUFACTURER'S RECOMMENDATIONS.
19. ALL PIPING PENETRATIONS THROUGH NEW, EXISTING WALL, OR FLOOR SHALL BE SEALED TO EQUAL THE RATING OF THE NEW, EXISTING WALL OR FLOOR.
20. THE PLUMBING SYSTEM SHALL BE TESTED AS REQUIRED BY STATE AND LOCAL CODE OR BY THE REQUIREMENTS OF THE LOCAL PLUMBING INSPECTOR.
21. THE ENTIRE DOMESTIC WATER SYSTEM (EXISTING/NEW) SHALL BE DISINFECTED IN ACCORDANCE TO THE LOCAL CODE & HEALTH DEPARTMENT REQUIREMENTS.
22. THE BACKFLOW PREVENTION DEVICE SHALL BE INSTALLED PER STATE AND LOCAL CODE & PER AUTHORITY HAVING JURISDICTION REQUIREMENTS.

PLUMBING LINETYPE LEGEND

	ARCHITECTURAL BACKGROUND
	DOMESTIC COLD WATER SUPPLY (DCW)
	DOMESTIC HOT WATER SUPPLY (DHW)
SAN	SANITARY DRAINAGE (SAN)
V	SANITARY VENT (V)
ST	STORM DRAINAGE (ST)
W	WASTE (W)
XX	SPECIALTY LINEWEIGHTS AS APPLICABLE (IE, "NG" FOR NATURAL GAS, "COND" FOR CONDENSATE, ETC. REFER TO ABBREVIATIONS)

PLUMBING SYMBOLS LEGEND

	POINT OF DISCONNECTION
	POINT OF CONNECTION
	PIPE TURNED UP
	PIPE TURNED DOWN
	BRANCH OFF BOTTOM OF PIPE
	BRANCH OFF TOP OF PIPE
	GENERIC VALVE (REFER TO SPECIFICATIONS FOR SPECIFIC TYPE OF VALVE)
	CHECK VALVE
	PUMP (SCHEMATIC)
	STRAINER
	UNION
	FLANGE
	PRESSURE GAUGE
	THERMOMETER
WHA	WATER HAMMER ARRESTER
	PIPE BREAK
CO	CLEANOUT
FCO	FLOOR CLEANOUT
	FLOOR DRAIN
	P-TRAP

PLUMBING ABBREVIATIONS

%	PERCENT
AC	ALTERNATING CURRENT
AD	ACCESS DOOR
ADA	AMERICANS WITH DISABILITIES ACT
ADJ	ADJACENT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
AMP	AMPERE
APPROX	APPROXIMATE
AVG	AVERAGE
BHP	BRAKE HORSEPOWER
BSMT	BASEMENT
BTU	BRITISH THERMAL UNIT
C TO C	CENTER TO CENTER
CA	COMPRESSED AIR
CFH	CUBIC FEET PER HOUR
CO	CLEAN OUT
COND	CONDENSATE
CONT	CONTINU (-ED), (-OUS), (-ING)
CU FT	CUBIC FOOT
CU IN	CUBIC INCH
CV	COEFFICIENT, VALVE FLOW
CWS	COLD WATER SUPPLY
DC	DIRECT CURRENT
DCDA	DOUBLE CHECK DETECTOR ASSEMBLY
DEG	DEGREE
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DN	DOWN
DWG	DRAWING
DWH	DOMESTIC WATER HEATER
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
EFF	EFFICIENCY
ELEV	ELEVATION
EQIV FT	EQUIVALENT FOOT
EQIV IN	EQUIVALENT INCHES
ET	EXPANSION TANK
ETC	ET CETERA
ETR	EXISTING TO REMAIN
EXIST, (E)	EXISTING
F	FAHRENHEIT
FCO	FLOOR CLEAN OUT
FD	FLOOR DRAIN
FLA	FULL LOAD AMPS
FPC	FIRE PROTECTION CONTRACTOR
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FS	FLOW SWITCH
FT	FOOT
FT LB	FOOT POUND
GAL	GALLON
GC	GENERAL CONTRACTOR
GPD	GALLONS PER DAY
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GW	GREASE WASTE
HD	HEAD
HGT	HEIGHT
HP	HORSEPOWER
HPS	HIGH PRESSURE STEAM
HR	HOUR
HTHW	HIGH TEMPERATURE HOT WATER
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
HZ	HERTZ / FREQUENCY

PLUMBING ABBREVIATIONS

ID	DIAMETER, INSIDE
IN	INCH
IPS	IRON PIPE SIZE
kW	KILOWATT
LAV	LAVATORY
LB	POUND
LF	LINEAR FOOT
LG	LENGTH
LPS	LOW PRESSURE STEAM
MATL	MATERIAL
MAX	MAXIMUM
MC	MECHANICAL CONTRACTOR
MCA	MINIMUM CIRCUIT AMPS
MER	MECHANICAL ROOM
MIN	MINIMUM
MISC	MISCELLANEOUS
MOCP	MAXIMUM OVERCURRENT PROTECTION
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED
NG	NATURAL GAS
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OD	DIAMETER, OUTSIDE
ODWH	ON DEMAND WATER HEATER
PC	PLUMBING CONTRACTOR
PD	PRESSURE DROP OR DIFFERENCE
PH	PHASE (ELECTRICAL)
PS	PRESSURE SWITCH
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIA	PSI ABSOLUTE
PSIG	PSI GAUGE
RD	ROOF DRAIN
RECIRC	RECIRCULATION
REQD	REQUIRED
RPM	REVOLUTIONS PER MINUTE
RPZ	REDUCED PRESSURE ZONE
SAN	SANITARY
SF	SQUARE FOOT
SPEC	SPECIFICATION
SQ IN	SQUARE INCH
SST	SECONDARY STORM
ST	STORM
STD	STANDARD
TBD	TO BE DETERMINED
TC	TEMPERATURE CONTROL CONTRACTOR
TEMP	TEMPERATURE
TS	TAMPER SWITCH
TYP	TYPICAL
U/S	UNDERSLAB
UR	URINAL
V	VOLT
V	VENT
VAR	VARIABLE
VEL	VELOCITY
VFD	VARIABLE FREQUENCY DRIVE
VIF	VERIFY IN FIELD
VOL	VOLUME
VTR	VENT THROUGH ROOF
W	WATT
W/	WITH
W/O	WITHOUT
WC	WATER CLOSET

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TRIANGLE AREA CIVIL SITE DEVELOPMENT PUMP STATION
GRIFFISS INTERNATIONAL AIRPORT ONEIDA COUNTY, ROME, NEW YORK

MARK	DATE	DESCRIPTION

REVISIONS

PROJECT NO:	146.205.011
DATE:	MARCH 6, 2026
DRAWN BY:	GMS
DESIGNED BY:	GMS
CHECKED BY:	MMR

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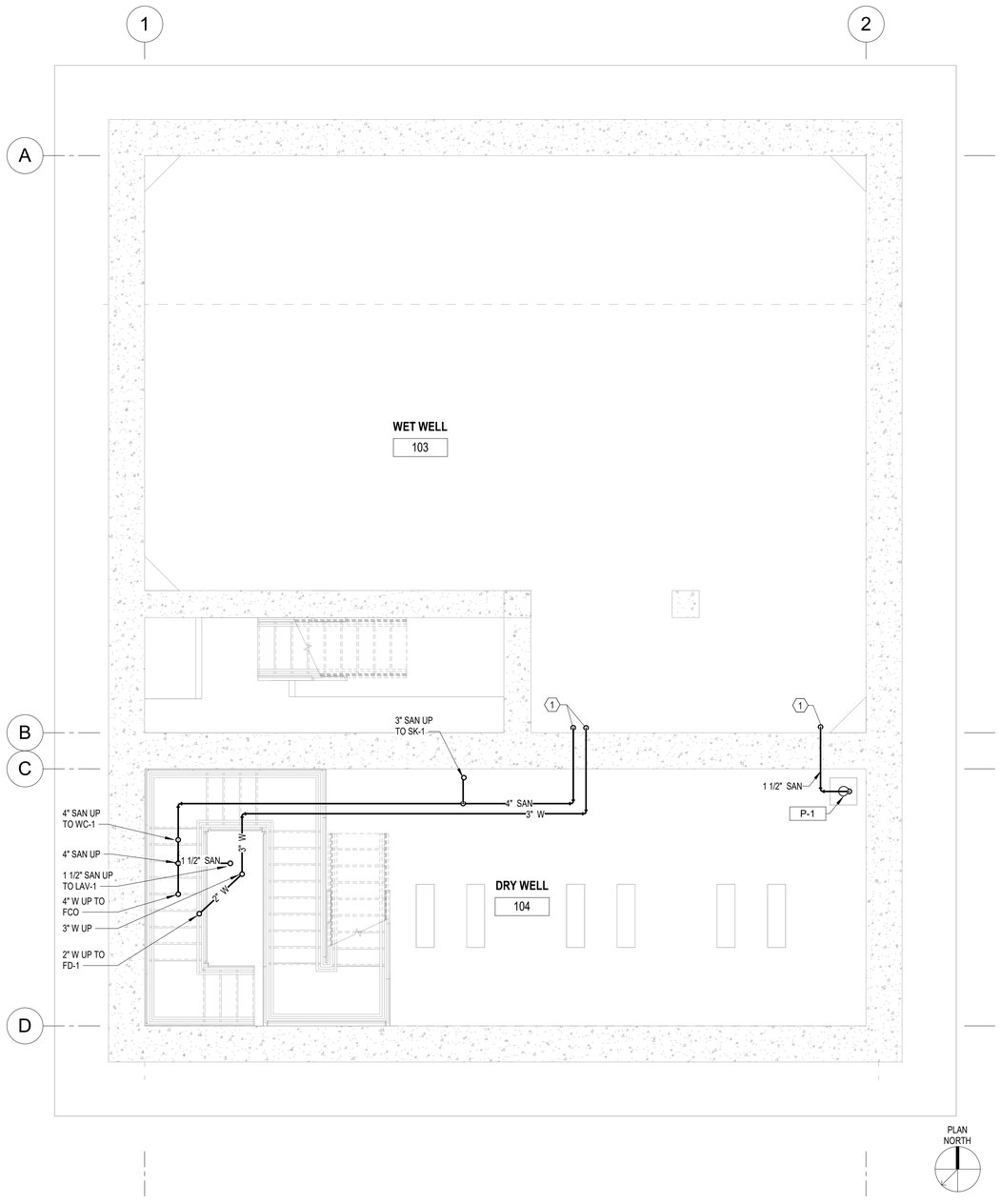
NOTES & SYMBOLS

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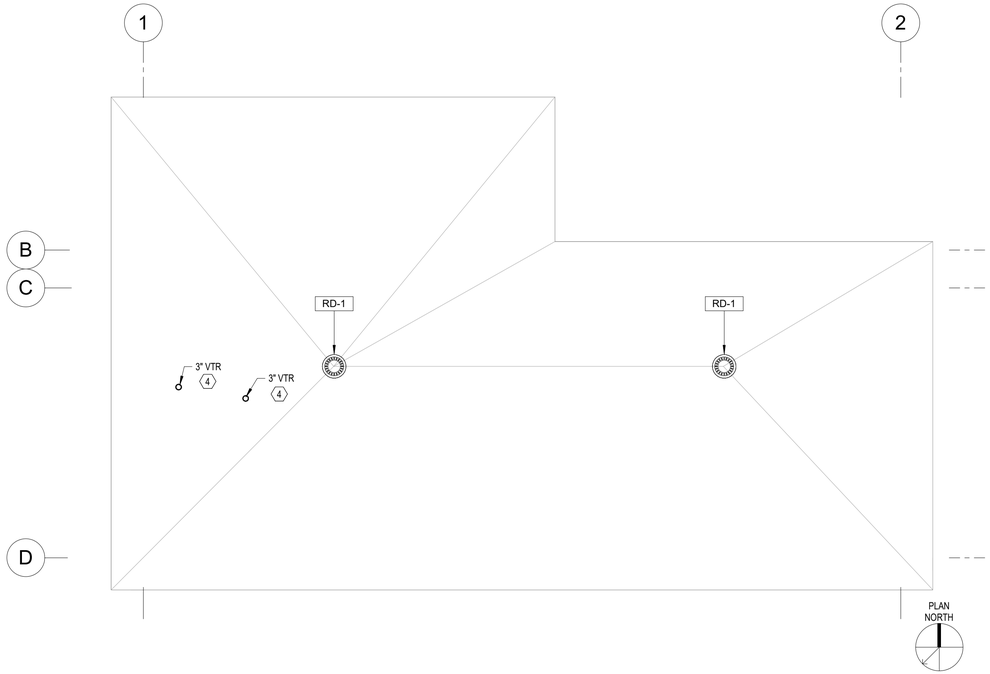
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KEYNOTES

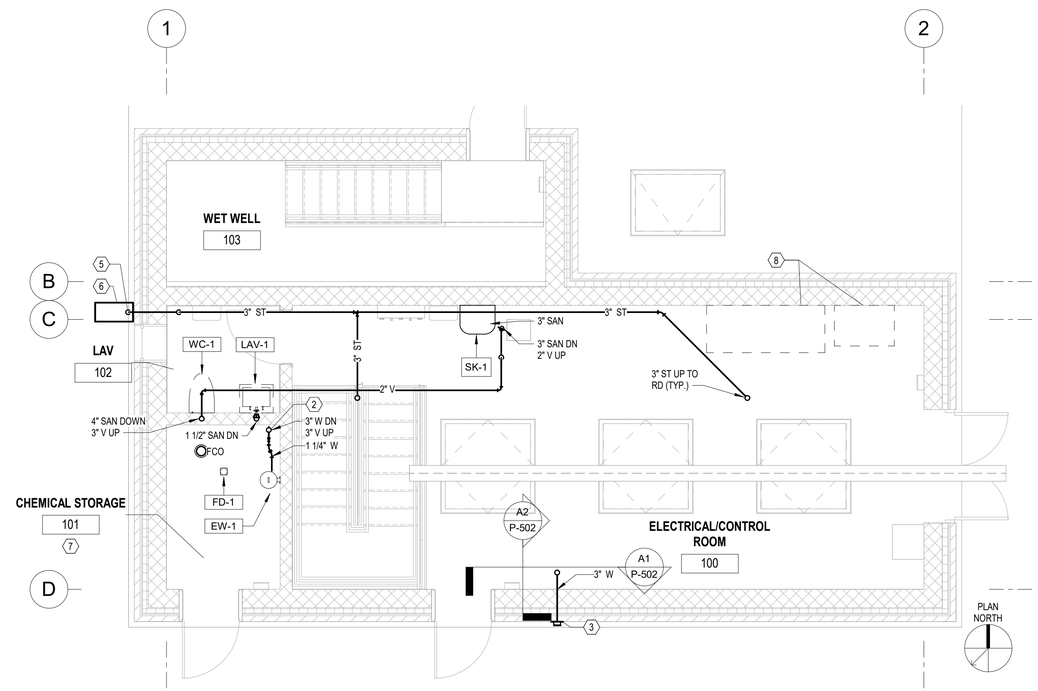
1. ROUTE SANITARY PIPING DOWN ALONG WALL AND DISCHARGE 6" MIN. ABOVE HIGH WATER LEVEL.
2. PROVIDE 3" CLEANOUT TEE WITH CLEANOUT PLUG ABOVE 1 1/4" W TIE IN.
3. TERMINATE 3" W WITH DOWNSPOUT COVER.
4. TERMINATE VTR 24" MIN. ABOVE FINISHED ROOF SURFACE.
5. TERMINATE 3" ST PIPING AT EXTERIOR 1FT ABOVE GRADE AND PROVIDE DOWNSPOUT NOZZLE.
6. PROVIDE 2FT X 1FT CONCRETE SPLASH BLOCK BELOW DOWNSPOUT NOZZLE
7. ALL WASTE AND VENT PIPING IN CHEMICAL STORAGE 101 SHALL BE CONSTRUCTED FROM PVC.
8. APPROXIMATE LOCATION OF ELECTRICAL EQUIPMENT. NO PIPING SHALL BE ROUTED DIRECTLY ABOVE. REFER TO CONTRACT EC-01 FOR EXACT LOCATIONS.



A1 BASEMENT LEVEL SANITARY PLAN
SCALE: 1/4" = 1'-0"



B3 ROOF LEVEL SANITARY PLAN
SCALE: 1/4" = 1'-0"



A3 FIRST FLOOR LEVEL SANITARY PLAN
SCALE: 1/4" = 1'-0"

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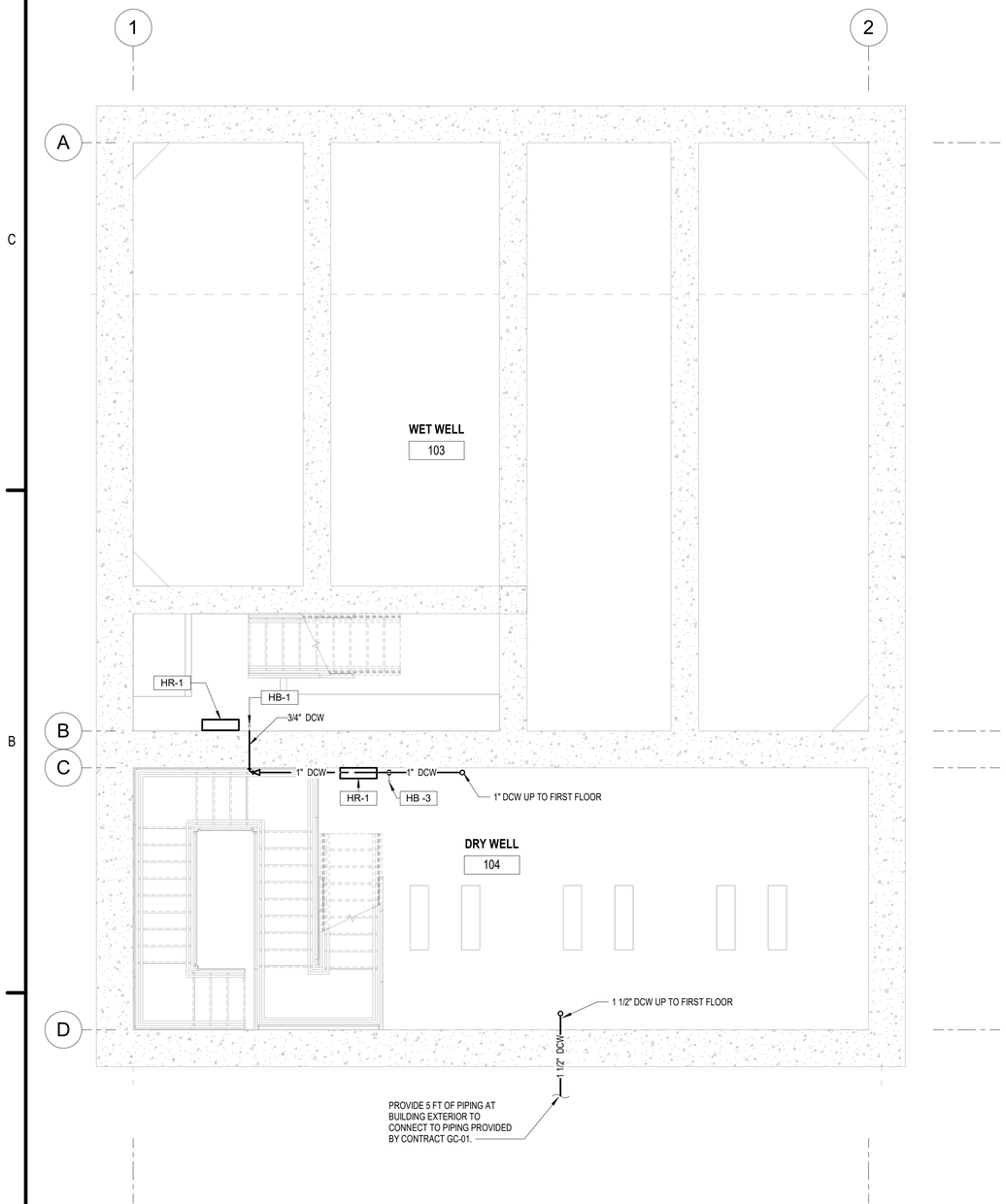
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SANITARY PLANS

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PLAN NORTH

A1 BASEMENT LEVEL DOMESTIC PLAN

SCALE: 1/4" = 1'-0"

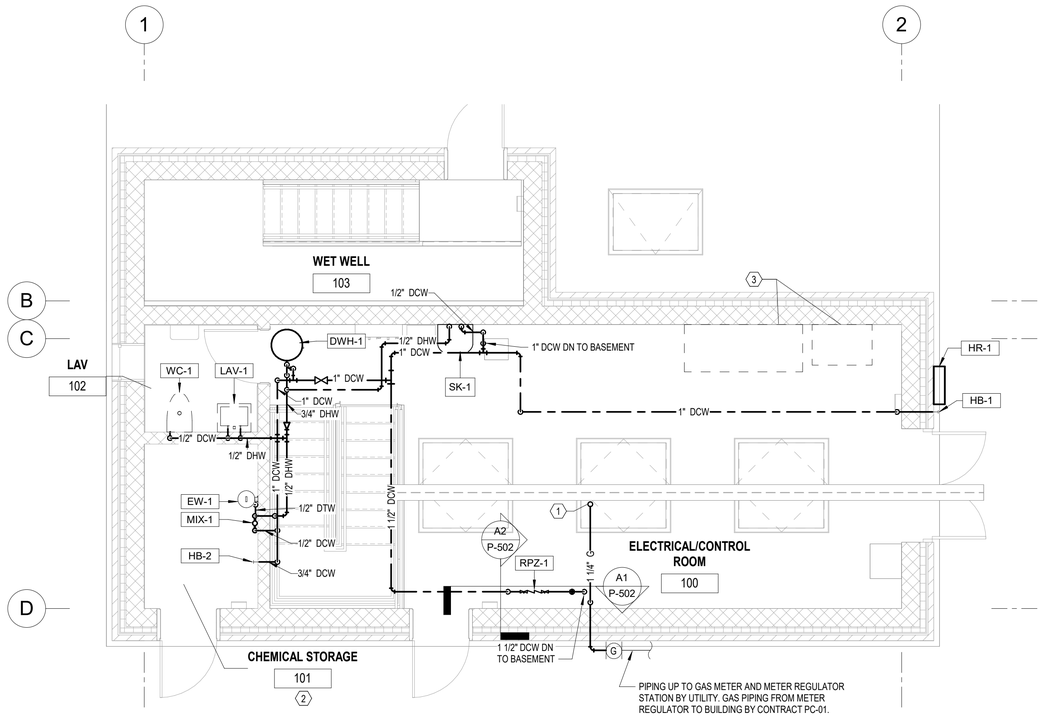
0 4' 8' 16'

KEYNOTES

1. 1-1/4" NG UP TO MAU-1, REFER TO DETAIL C1/P-501 FOR GAS CONNECTION. ROUTE 1-1/4" NG PIPING TIGHT TO BOTTOM OF AHU TO MAINTAIN REQUIRED MONORAIL CLEARANCES. REFER TO CONTRACT MC-01 FOR LOCATION OF MAU.
2. ALL DOMESTIC PIPING IN CHEMICAL STORAGE 101 SHALL BE CONSTRUCTED FROM CPVC.
3. APPROXIMATE LOCATION OF ELECTRICAL EQUIPMENT. NO PIPING SHALL BE ROUTED DIRECTLY ABOVE. REFER TO CONTRACT EC-01 FOR EXACT LOCATIONS.

GENERAL NOTES

1. INTERIOR WALL HYDRANTS AND HOSE BIBBS TO BE MOUNTED 3'-0" AFF SURFACE. ASSOCIATED HOSE REELS TO BE MOUNTED 4'-0" AFF SURFACE.
2. EXTERIOR WALL HYDRANTS TO BE MOUNTED 2'-0" ABOVE GRADE. ASSOCIATED HOSE REELS TO BE MOUNTED 4'-0" ABOVE GRADE.



PLAN NORTH

A3 FIRST FLOOR LEVEL DOMESTIC PLAN

SCALE: 1/4" = 1'-0"

0 4' 8' 16'

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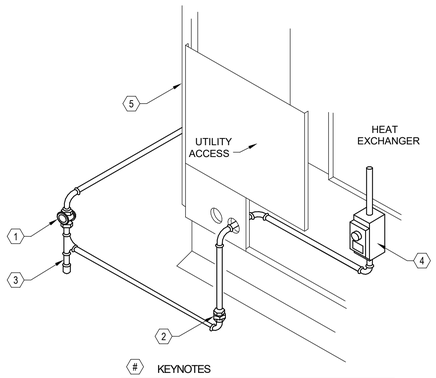
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DOMESTIC PLANS

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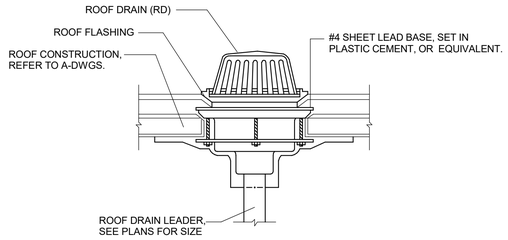


(#) KEYNOTES

1. PROVIDE LINE SIZE GAS COCK.
2. PROVIDE UNION AT CONNECTION POINT.
3. PROVIDE FULL SIZE DRIP LEG 3" MIN. LENGTH.
4. MAKEUP AIR UNIT INTERNAL GAS VALVE.
5. MAKEUP AIR UNIT.

C1 MUA UNIT GAS CONNECTION DETAIL

SCALE: NOT TO SCALE

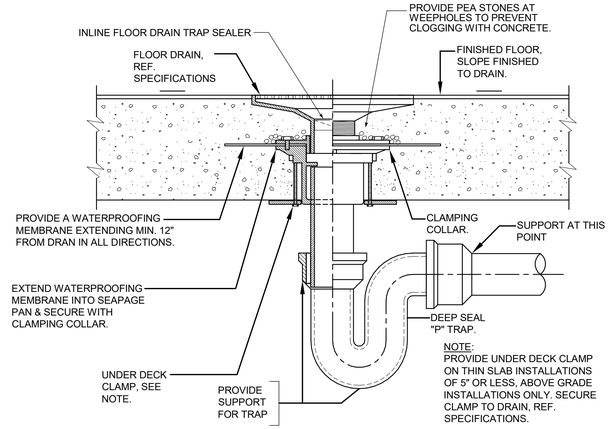


NOTES

1. LOCATE ROOF DRAINS AT LOW POINTS OF ROOF, AS SHOWN ON PLAN.
2. SET ROOF DRAIN AND SECURE IN PLACE FOR FINAL ROOF FLASHING TO PROVIDE A WATERTIGHT SEAL BY CONTRACT GC-01.

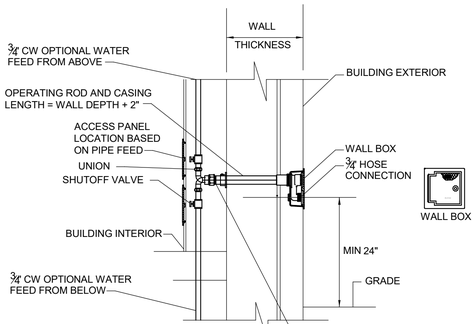
C2 ROOF DRAIN DETAIL

SCALE: NOT TO SCALE



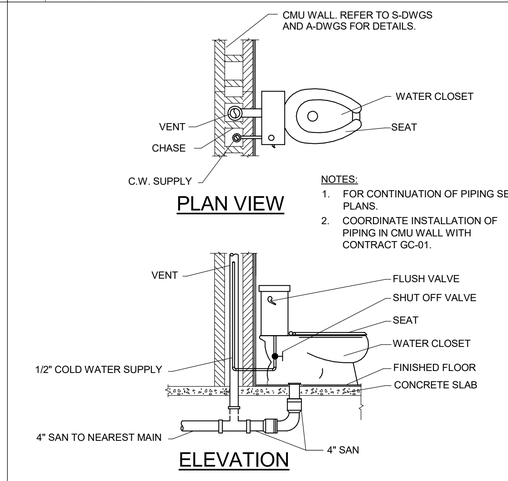
C3 FLOOR DRAIN INSTALLATION DETAIL

SCALE: NOT TO SCALE



B1 EXTERIOR WALL HYDRANT DETAIL

SCALE: NOT TO SCALE



PLAN VIEW

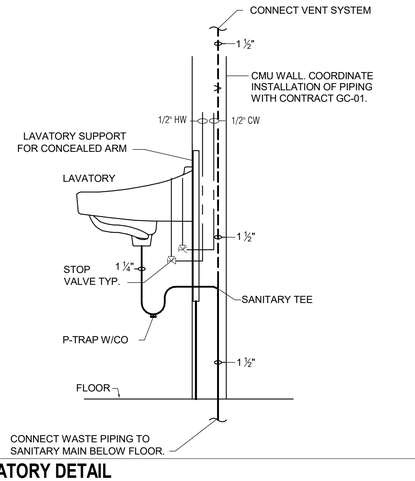
NOTES:

1. FOR CONTINUATION OF PIPING SEE PLANS.
2. COORDINATE INSTALLATION OF PIPING IN CMU WALL WITH CONTRACT GC-01.

ELEVATION

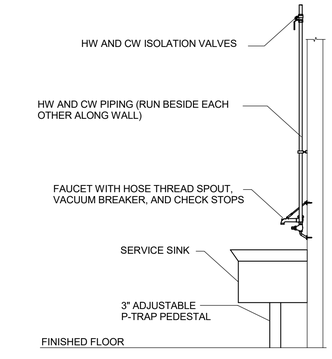
B2 FLOOR MOUNTED WATER CLOSET DETAIL

SCALE: NOT TO SCALE



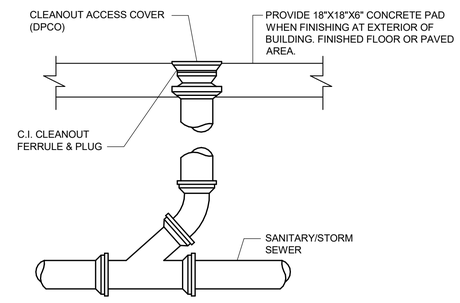
B3 LAVATORY DETAIL

SCALE: NOT TO SCALE



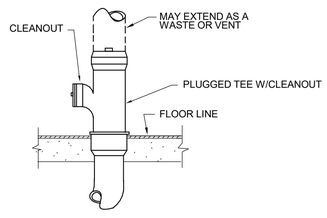
B4 SERVICE SINK DETAIL

SCALE: NOT TO SCALE



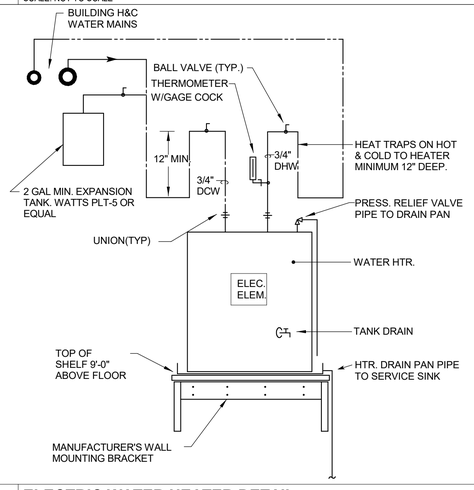
A1 CLEANOUT DETAIL

SCALE: NOT TO SCALE



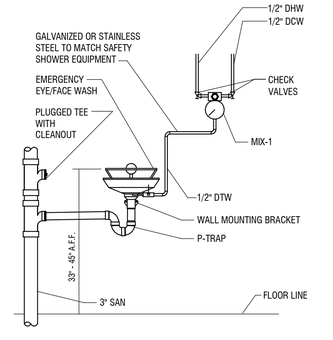
A2 VERTICAL CLEANOUT DETAIL

SCALE: NOT TO SCALE



A3 ELECTRIC WATER HEATER DETAIL

SCALE: NOT TO SCALE



A4 EMERGENCY EYEWASH DETAIL

SCALE: NOT TO SCALE

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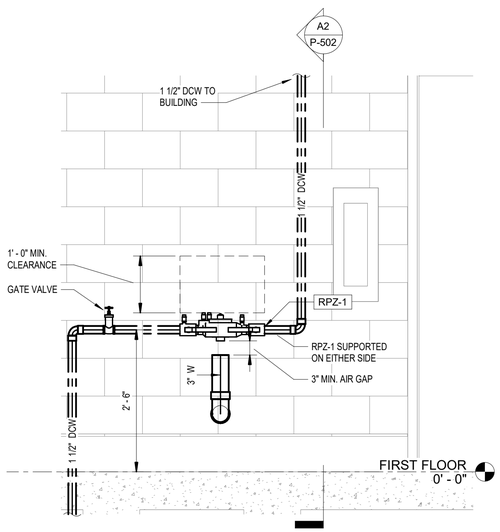
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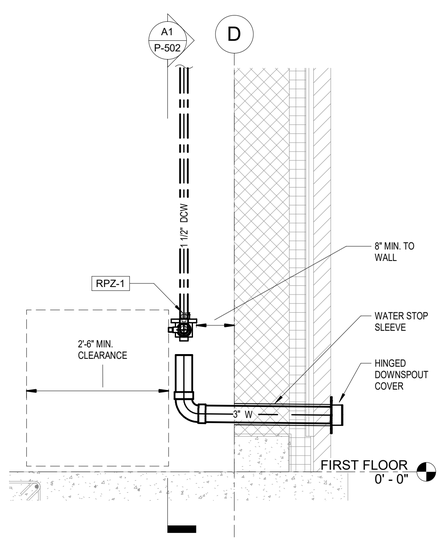
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DETAILS

P-501

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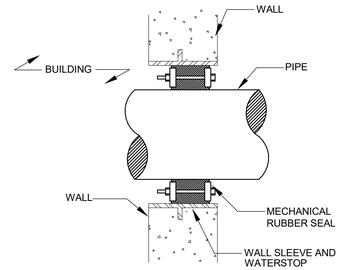


NOTES:

1. ALL ASSEMBLIES SHALL BE INSTALLED WITH A CENTERLINE HEIGHT FROM 30 INCHES TO 60 INCHES ABOVE THE FLOOR.
2. ALL RPZ DEVICES MUST HAVE AN 18 INCH MINIMUM CLEARANCE BETWEEN THE BOTTOM OF THE RELIEF VALVE AND THE FLOOR TO PREVENT SUBMERSION AND PROVIDE ACCESS FOR SERVICING AND RELIEF VALVE.
3. A MINIMUM OF 12 INCHES OF CLEAR SPACE SHALL BE MAINTAINED ABOVE THE ASSEMBLY TO ALLOW FOR SERVICING CHECK VALVES AND FOR OPERATION OF SHUT-OFF VALVES.
4. A MINIMUM OF 30 INCHES OF CLEAR SPACE SHALL BE MAINTAINED BETWEEN THE FRONT SIDE OF THE DEVICE AND THE NEAREST WALL OR OBSTRUCTION.
5. AT LEAST 8 INCHES CLEARANCE SHOULD BE MAINTAINED FROM THE BACK SIDE OF THE DEVICE TO THE NEAREST WALL OR OBSTRUCTION. THIS CLEARANCE MAY NEED TO BE INCREASED FOR MODELS THAT HAVE SIDE MOUNTED TEST COCKS OR RELIEF VALVES THAT WOULD BE FACING THE BACK WALL.

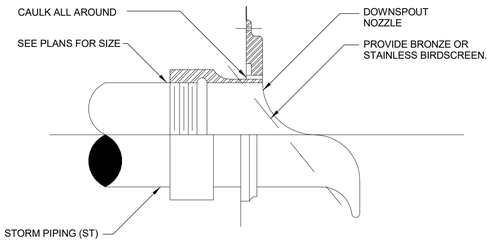
A1 REDUCED PRESSURE BACKFLOW PREVENTER DETAILS

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



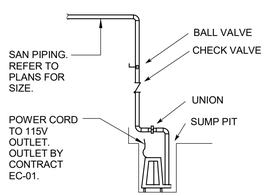
B3 SEALING PIPE WALL PENETRATION DETAIL

SCALE: NOT TO SCALE



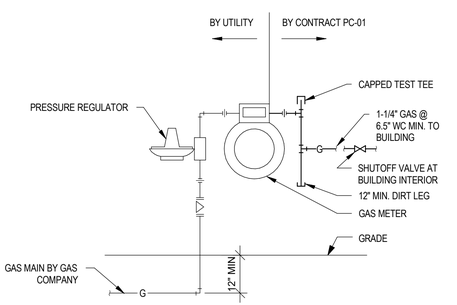
B4 DOWNSPOUT DETAIL

SCALE: NOT TO SCALE



A3 SUMP PUMP PIPING DETAIL

SCALE: NOT TO SCALE



NOTES:
GAS METER AND REGULATOR SHALL BE BY GAS UTILITY PROVIDER. OWNER WILL PAY UTILITY DIRECTLY FOR METER/REGULATOR.

A4 NATURAL GAS REGULATOR DETAIL

SCALE: NOT TO SCALE

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PROJECT NO: 146.205.011
DATE: MARCH 6, 2026
DRAWN BY: GMS
DESIGNED BY: GMS
CHECKED BY: MMR

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DETAILS

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REDUCED PRESSURE ZONE BACKFLOW PREVENTER SCHEDULE

TAG	LOCATION	SIZE	DESIGN FLOW (GPM)	MAX PRESSURE DROP (PSI)	BASIS OF DESIGN	NOTES
RPZ-1	ELECTRICAL/CONTROL ROOM 100	1-1/2"	30	14	WATTS LF009M2QT	-

DOMESTIC ELECTRIC WATER HEATER SCHEDULE

TAG	STORAGE (GALLONS)	ELECTRICAL INPUT (KW)	ELECTRICAL (V/PH/HZ)	FLA	GPH DELIVERED @ 80 DEG F RISE	BASIS OF DESIGN	NOTES
DWH-1	20	2.0	120/1/60	16.7	10	RHEEM EGSP20	ALL

NOTES:
1. PROVIDE WITH MANUFACTURER'S AUXILIARY DRAIN PAN.
2. PROVIDE WITH MANUFACTURER'S WALL MOUNTING BRACKET.

MIXING VALVE SCHEDULE

TAG	DESCRIPTION	INLET/OUTLET SIZE	EWT (DEG. F)	LWT (DEG. F)	BASIS OF DESIGN	NOTES
MIX-1	EMERGENCY EYE/FACE WASH MIXING VALVE	1/2"	120	85	GUARDIAN G3600LF	-

PLUMBING FIXTURE SCHEDULE

FIXTURE	DESCRIPTION	ADA	CONNECTION SIZE (INCHES)							BASIS OF DESIGN	NOTES
			ST	CW	HW	TW	TRAP	SAN	V		
LAV-1	WALL HUNG SINK	NO	-	1/2"	1/2"	-	1-1/4"	1-1/4"	1-1/4"	ZURN Z5310	WITH ZURN Z81101-XL-2M
SK-1	SERVICE SINK	NO	-	1/2"	1/2"	-	3"	3"	1-1/2"	KOHLER BANNON	WITH CHICAGO FAUCETS 835
WC-1	WATER CLOSET	NO	-	3/4"	-	-	-	4"	2"	KOHLER HIGHLINE	
HB-1	WALL HYDRANT	NO	-	3/4"	-	-	-	-	-	WATTS HY-420	NON-FREEZE
HB-2	WALL HYDRANT	NO	-	3/4"	-	-	-	-	-	JR SMITH 5619	STAINLESS STEEL NON-FREEZE
HB-3	HOSE BIBB	NO	-	3/4"	-	-	-	-	-	PROFLOW PF109FBFPC	W/ VACUUM BREAKER
HR-1	HOSE REEL	NO	-	-	-	-	-	-	-	LEONARD HDHR	STAINLESS STEEL
RD-1	ROOF DRAIN	NO	3"	-	-	-	-	-	-	JR SMITH 1015	
FD-1	FLOOR DRAIN	NO	-	-	-	-	-	3"	2"	JR SMITH 2010A	WITH BARRIER TYPE SEAL DEVICE
FCO	FLOOR CLEANOUT	NO	-	-	-	-	-	4"	-	WATTS CO-1200-R	ADJUSTABLE W/ STAINLESS COVER
EW-1	EMERGENCY EYE/FACE WASH	NO	-	-	-	1/2"	-	1-1/4"	-	GUARDIAN G1750	STAINLESS STEEL
DS-1	DOWNSPOUT NOZZLE	NO	3"	-	-	-	-	-	-	WATTS RD-940	W/ STAINLESS STEEL BIRDSCREEN

SUMP PUMP SCHEDULE

UNIT NO	SERVICE	LOCATION	GPM @ FT.HD.	SIZE	HP	V / PH / HZ	BASIS OF DESIGN	NOTES
P-1	DRY WELL	DRY WELL	25 GPM @ 25 FT. HD	1-1/2"	1/2	115/1/60	LIBERTY PUMPS 281	ALL

NOTES:
1. UNIT COMES STANDARD WITH A 10 FT POWER CORD. DIFFERENT CORD LENGTHS ARE AVAILABLE. CONTRACTOR TO FIELD VERIFY AND PROVIDE REQUIRED CORD LENGTH.

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TRIANGLE AREA CIVIL SITE DEVELOPMENT PUMP STATION
GRIFFISS INTERNATIONAL AIRPORT ONEIDA COUNTY, ROME, NEW YORK

MARK	DATE	DESCRIPTION

REVISIONS

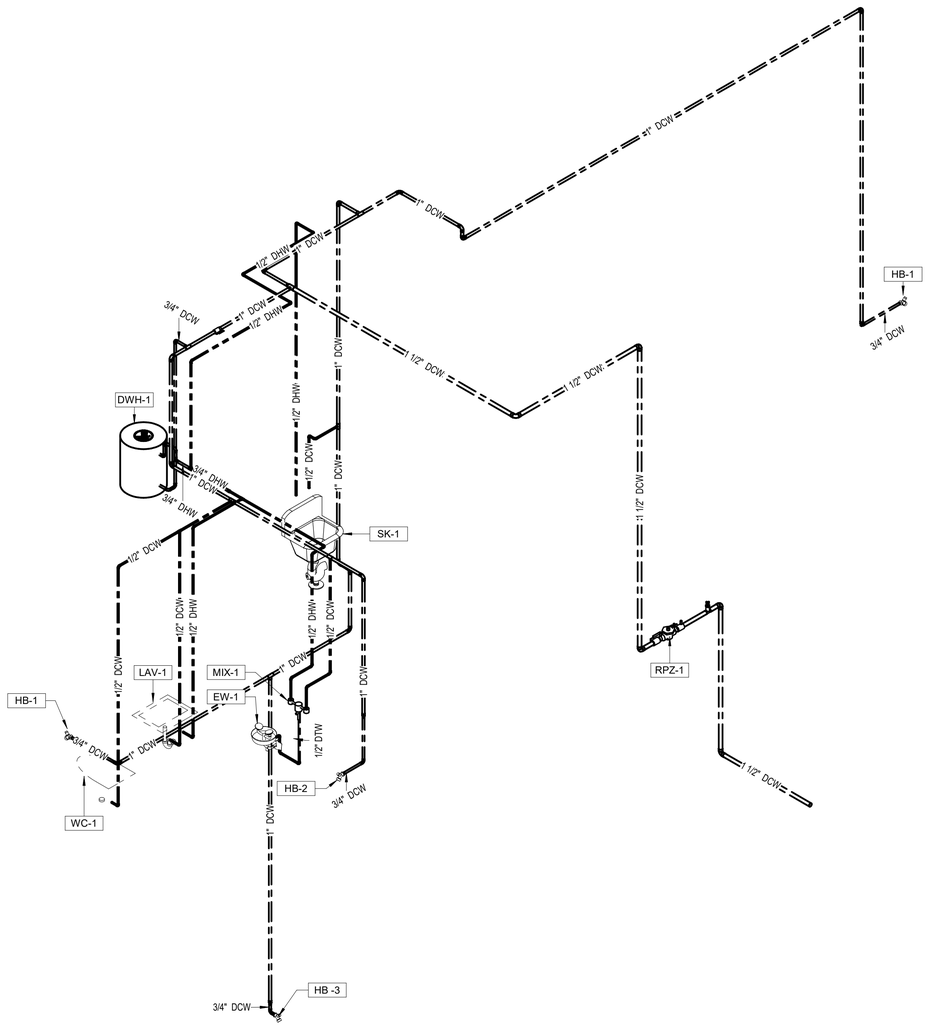
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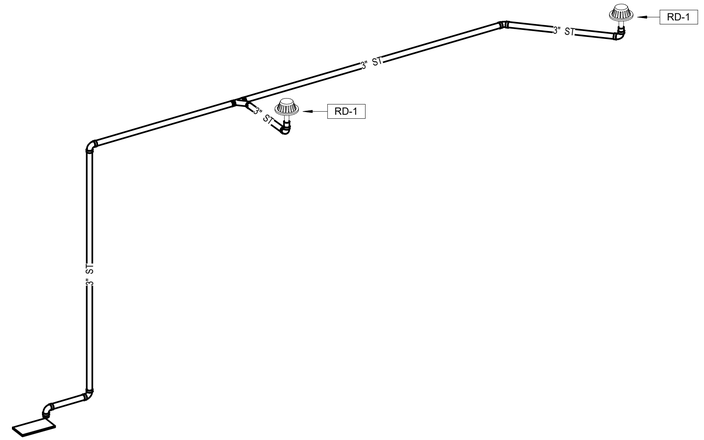
SCHEDULES

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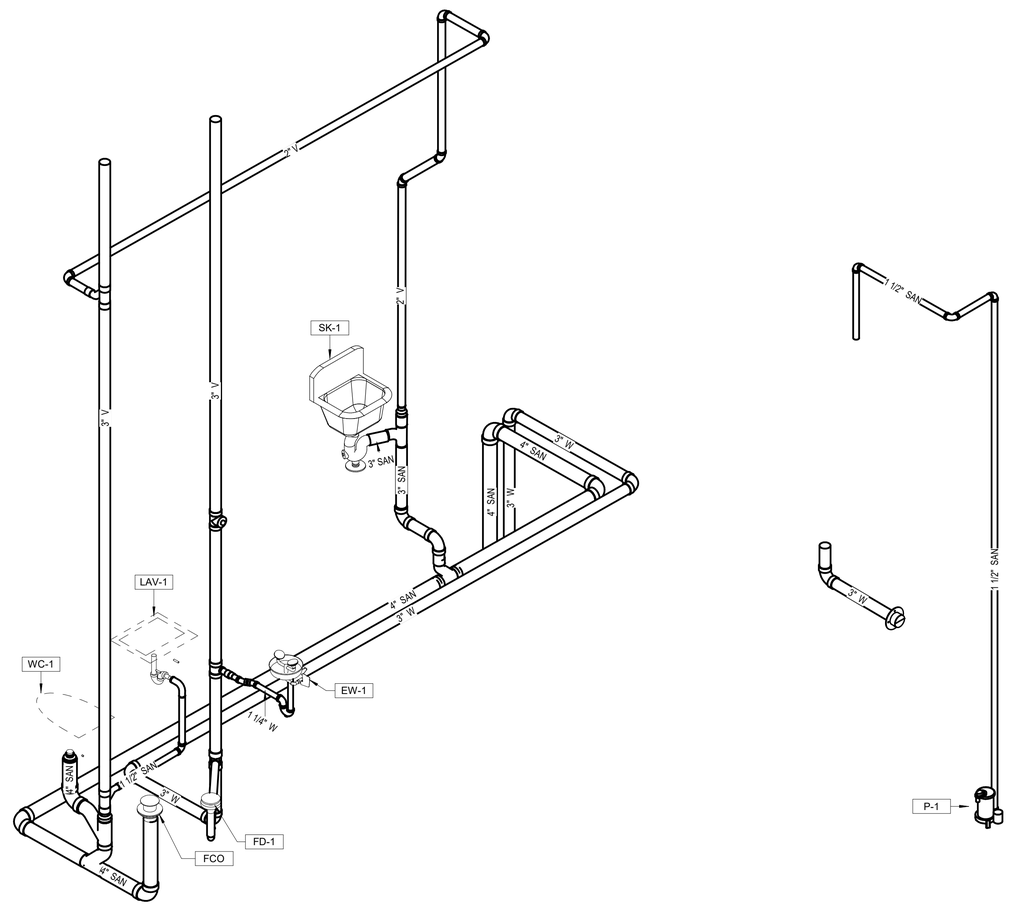
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A1 DOMESTIC ISOMETRIC
SCALE: 0 4' 8' 16'



C3 STORM ISOMETRIC
SCALE: 0 4' 8' 16'



A3 SANITARY AND WASTE ISOMETRIC
SCALE: 0 4' 8' 16'

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ISOMETRICS

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MECHANICAL SYMBOL LIST

12/8	DUCT (FIRST FIGURE, SIDE SHOWN, DIMENSIONS IN INCHES)
12/8	SINGLE LINE DUCT (FIRST FIGURE, SIDE SHOWN, DIMENSIONS IN INCHES)
	DUCT SECTION - SUPPLY
	DUCT SECTION - RETURN
	DUCT SECTION -EXHAUST
14Ø	14" ROUND DUCT
24/12	24" x 12" FLAT OVAL DUCT
	VOLUME DAMPER - MANUAL OPERATION
	VOLUME DAMPER - MANUAL OPERATION
	TURNING VANES
ATV	ACOUSTICAL TURNING VANES
R	RISE IN DIRECTION OF ARROW
D	DROP IN DIRECTION OF ARROW
AD	FIRE DAMPER VERTICAL BLADE POSITION HORIZONTAL BLADE POSITION ACCESS DOOR TO BE LOCATED ON MOST ACCESSIBLE SIDE OF DUCT
SD / AD	SMOKE DAMPER ACCESS DOOR TO BE LOCATED ON MOST ACCESSIBLE SIDE OF DUCT
F/S / AD	COMBINATION FIRE / SMOKE DAMPER ACCESS DOOR TO BE LOCATED ON MOST ACCESSIBLE SIDE OF DUCT
12/8	LINED DUCT (DIM. IS INTERNAL)
FC	FLEXIBLE CONNECTION
T	THERMOSTAT
S	SENSOR
R-1 / 123 / 1x1	REGISTER OR GRILLE - TOP NUMBER REPRESENTS TAG, SEE SCHEDULE; MIDDLE NUMBER REPRESENTS CFM; BOTTOM NUMBER REPRESENTS NECK SIZE.
12	ROOM NUMBER
	SUPPLY AIR
	RETURN OR EXHAUST AIR
DSD	DUCT SMOKE DETECTOR
	NEW EQUIPMENT AND DUCTWORK
x / xx	BUILDING SECTION
x / xx	DETAIL NUMBER
	PIPE CONTINUATION
X	KEYNOTE

MECHANICAL ABBREVIATIONS

%	PERCENT
AC	AIR CONDITIONING
AC	ALTERNATING CURRENT
ACU	AIR CONDITIONING UNIT
AD	ACCESS DOOR
ADA	AMERICANS WITH DISABILITIES ACT
ADJ	ADJACENT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY
AHJ	AUTHORITY HAVING JURSIDICTION
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
AMP	AMPERE
ANSI	AMERICAN NATIONAL STANDARD INSTITUTE
APD	AIR PRESSURE DROP
APPROX	APPROXIMATE
AVG	AVERAGE
BDD	BACKDRAFT DAMPER
BF	BOILER FEED PIPING
BHP	BRAKE HORSEPOWER
BLDG	BUILDING
BO	BOTTOM OF
BSMT	BASEMENT
BTU	BRITISH THERMAL UNIT
CAP	CAPACITY
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CLG	CEILING
CLR	CLEAR
CMPR	COMPRESSOR
COL	COLUMN
COMB	COMBUSTION
CONC	CONCRETE
COND	CONDENS (-ATE, -ATION, -ER, -ING)
CONN	CONNECTION
CONT	CONTINUOUS
CU FT	CUBIC FEET
CU IN	CUBIC INCH
CV	VALVE FLOW COEFFICIENT
DB	DRY BULB
dB	DECIBEL
DC	DIRECT CURRENT
DEG	DEGREE
DEMO	DEMOLITION
DIA	DIAMETER
DWG	DRAWING
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRICAL CONTRACTOR
EDR	EQUIVALENT DIRECT RADIATION
ELEV	ELEVATION
EQ	EQUAL
ESP	EXTERNAL STATIC PRESSURE
EST	ESTIMATED
ETR	EXISTING TO REMAIN
EVAP	EVAPORAT (-E, -ED, -ING, -OR)
EWT	ENTERING WATER TEMPERATURE
EXIST, (E)	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
F	FAHRENHEIT
FA	FREE AREA
FIN	FINISHED
FL	FLOOR
FLA	FULL LOAD AMPERES
FPC	FIRE PROTECTION CONTRACTOR
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FS	FLOW SWITCH
FT	FOOT
FUT	FUTURE
FV	FACE VELOCITY
G	GLYCOL
GA	GAUGE
GAL	GALLON
GC	GENERAL CONTRACTOR
GPD	GALLONS PER DAY
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GR	GRAINS
HD	HEAD
HG	MERCURY
HORIZ	HORIZONTAL
HP	HORSEPOWER
HPS	HIGH PRESSURE STEAM
HR	HOUR
HVAC	HEATING, VENTILATING, AND AIR CONDITIONING
HWR	HEATING WATER RETURN
HWS	HEATING WATER SUPPLY
HZ	HERTZ / FREQUENCY
ID	DIAMETER, INSIDE
IN	INCH
INSUL	INSULATION
INT	INTERIOR
IPS	IRON PIPE SIZE
KW	KILOWATT
KWH	KILOWATT-HOUR
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS

MECHANICAL ABBREVIATIONS

LF	LINEAR FEET
LG	LENGTH
LOC	LOCATION
LPS	LOW PRESSURE STEAM
LRA	LOCKED ROTOR AMPERES
LWT	LEAVING WATER TEMPERATURE
MATL	MATERIAL
MAX	MAXIMUM
MBH	BTU PER HOUR (THOUSAND)
MC	MECHANICAL CONTRACTOR
MCA	MINIMUM CIRCUIT AMPERES
MECH	MECHANICAL
MFG	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MOCP	MAXIMUM OVERCURRENT PROTECTION
MPS	MEDIUM PRESSURE STEAM
MTG	MOUNTING
N/A	NOT APPLICABLE
NC	NOISE CRITERIA
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NG	NATURAL GAS
NO	NUMBER
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OA	OUTDOOR AIR
OC	ON CENTER
OD	DIAMETER, OUTSIDE
ODWH	ON DEMAND WATER HEATER
OPG	OPENING
OPP	OPPOSITE HAND
OS	OPEN SITE
OT	OFF TOP
OZ	OUNCE
PC	PLUMBING CONTRACTOR
PH	PHASE (ELECTRICAL)
PLBG	PLUMBING
PPM	PARTS PER MILLION
PR	PAIR
PRESS	PRESSURE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIA	PSI ABSOLUTE
PSIG	PSI GAUGE
R	THERMAL RESISTANCE
R12, R22	REFRIGERANT (12, 22, ETC)
RA	RETURN AIR
RAD	RADIATION
RCVR	RECEIVER
RECIRC	RECIRCULATION
REF	REFERENCE
RH	RELATIVE HUMIDITY
RLA	RUNNING LOAD AMPERES
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RPM	REVOLUTIONS PER MINUTE
RTU	ROOF TOP UNIT
SA	SUPPLY AIR
SCFM	CFM, STANDARD CONDITIONS
SEER	SEASONAL ENERGY EFFICIENCY RATIO
SIM	SIMILAR
SP	STATIC PRESSURE
SPEC	SPECIFICATION
SPLY	SUPPLY
SQ	SQUARE
SQ FT	SQUARE FOOT
SQ IN	SQUARE INCH
ST	STEEL
STD	STANDARD
SUCT	SUCTION
T'STAT	THERMOSTAT
TA	THROW AWAY
TBD	TO BE DETERMINED
TC	TEMPERATURE CONTROL CONTRACTOR
TD	TEMPERATURE DIFFERENCE
TEMP	TEMPERATURE
TO	TOP OF
TS	TAMPER SWITCH
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
U	HEAT TRANSFER COEFFICIENT
UNO	UNLESS OTHERWISE NOTED
V	VOLT
VAC	VACUUM
VAR	VARIABLE
VAV	VARIABLE AIR VOLUME
VEL	VELOCITY
VENT	VENTILATION, VENT
VERT	VERTICAL
VFD	VARIABLE FREQUENCY DRIVE
VIF	VERIFY IN FIELD
VOL	VOLUME
W	WATT
W/	WITH
W/O	WITHOUT
WB	WET BULB
WBT	WET BULB TEMPERATURE
WH	WHITE
WPD	WATER PRESSURE DROP
WT	WEIGHT
WTD	WATER TEMPERATURE DROP

GENERAL NOTES

1). ALL WORK SHALL CONFORM TO ALL APPLICABLE RULES, REGULATIONS AND CODES, INCLUDING BUT NOT LIMITED TO 2025 ENERGY CONSERVATION CODE OF NYS, 2025 BUILDING CODE OF NYS, 2025 MECHANICAL CODE OF NYS, OSHA, AND REQUIREMENTS OF THE AHJ.

2). ALL EQUIPMENT SHALL COMPLY WITH THE PROVISIONS OF THE 2025 ENERGY CONSERVATION CODE OF NYS. ALL SUBMITTALS FOR EQUIPMENT COVERED BY THE CODE SHALL INCLUDE THE MANUFACTURER'S STATEMENT OF CONFORMANCE TO THE CODE.

3). FIELD VERIFY ALL DIMENSIONS PRIOR TO DUCTWORK FABRICATION OR ANY OTHER MECHANICAL WORK. CONTRACT MC-01 SHALL COORDINATE INSTALLATION OF EQUIPMENT, PIPING, DUCTWORK, AND PADS WITH OTHER CONTRACTS. PROVIDE FITTINGS, ELEVATION CHANGES, TRANSITIONS, AND OFFSETS REQUIRED, WHETHER SHOWN OR NOT, TO AVOID CONFLICTS WITH WORK OF OTHER CONTRACTS.

4). SEAL ALL HVAC PENETRATIONS (PIPING, DUCTWORK, ETC.) IN ACCORDANCE WITH THE 2025 BUILDING CODE OF NYS AND WHERE SHOWN OR SPECIFIED.

5). ITEMS OF SPECIFIC MANUFACTURER'S SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE PRINTED INSTRUCTIONS AND/OR MANUFACTURER'S REPRESENTATIVES DIRECTIONS.

6). INSTALL ALL NECESSARY STIFFENERS, BRACES, STRUTS, ETC, WHETHER SHOWN OR NOT, TO PROVIDE A COMPLETE, SAFE, AND DURABLE SYSTEM.

7). DIMENSIONS SHOWN "AFF" INDICATE THE ACTUAL CLEAR DIMENSIONS FROM THE BOTTOM OF THE UNIT TO THE FINISHED FLOOR ELEVATION; UNLESS INDICATED OTHERWISE.

8). SUPPORT AND EQUIPMENT DETAILS MAY VARY TO SUIT EQUIPMENT AND PARTS SUPPLIED.

9). WELD ALL STEEL ANGLE JOINTS UNLESS OTHERWISE SHOWN.

10). ALL DUCT DIMENSIONS SHOWN ARE "SIDE SEEN" BY "SIDE NOT SEEN" AND ARE THE CLEAR INSIDE DIMENSIONS UNLESS OTHERWISE NOTED.

11). PROVIDE ACCESS DOORS AND CLEARANCES FOR EASY ACCESS TO ALL FIRE DAMPERS, CONTROL DAMPERS, LOUVERS, FILTERS, COILS, AND FANS.

12). BRANCH DUCTS TO REGISTER SHALL BE THE SAME SIZE AS REGISTER UNLESS INDICATED OTHERWISE.

13). PROVIDE MANUAL VOLUME DAMPERS IN ALL BRANCH TAKE-OFFS AND WHERE SHOWN.

14). PROVIDE ALL CONTROL AND INTERLOCK WIRING REQUIRED OR SPECIFIED THAT IS NOT PROVIDED BY CONTRACT EC-01.

15). COORDINATE WITH CONTRACT EC-01 REGARDING THE RESPONSIBILITIES FOR SUPPLYING, INSTALLING AND WIRING OF HVAC-RELATED DISCONNECT SWITCHES, STARTERS, SAFETY INTERLOCKS, EMERGENCY SHUTDOWN AND WIRING.

16). WORK ON M-SERIES DRAWINGS IS BY CONTRACT MC-01 UNLESS OTHERWISE NOTED.

17). PRIOR TO CUTTING THROUGH FLOORS AND WALLS CONTRACT MC-01 SHALL VERIFY THE LOCATIONS OF ALL STRUCTURAL MEMBERS, JOISTS, AND OR COLUMNS. PROMPTLY NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES. DO NOT CUT ANY STRUCTURAL MEMBERS UNLESS SPECIFICALLY DIRECTED TO DO SO.

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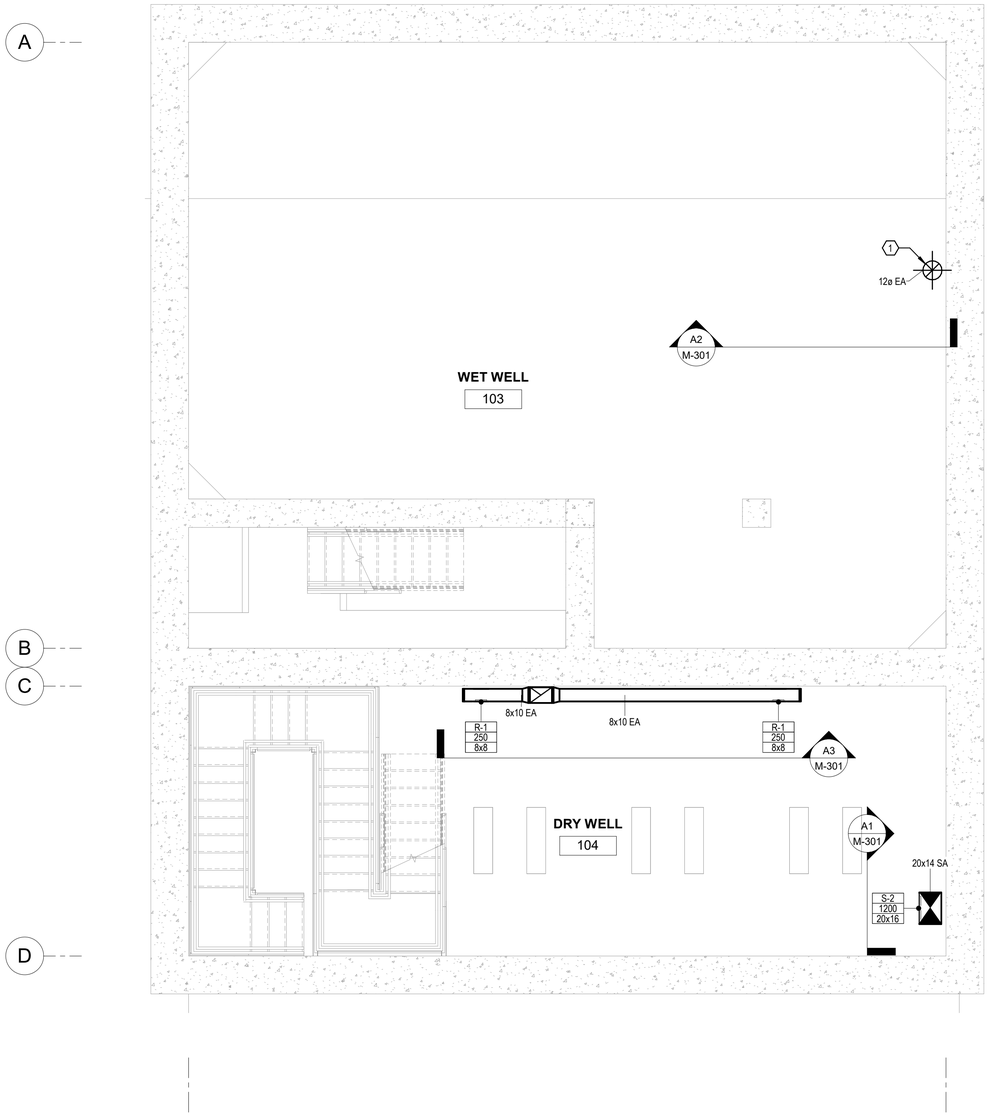
NOTES & SYMBOLS

M-001

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KEYNOTES

1. 1/2" X 1/2" 316 SS WIRE MESH SCREEN ON OPEN END DUCT.



PLAN NORTH

A1 BASEMENT LEVEL MECHANICAL PLAN
SCALE: 1/4" = 1'-0"

0 4' 8' 16'

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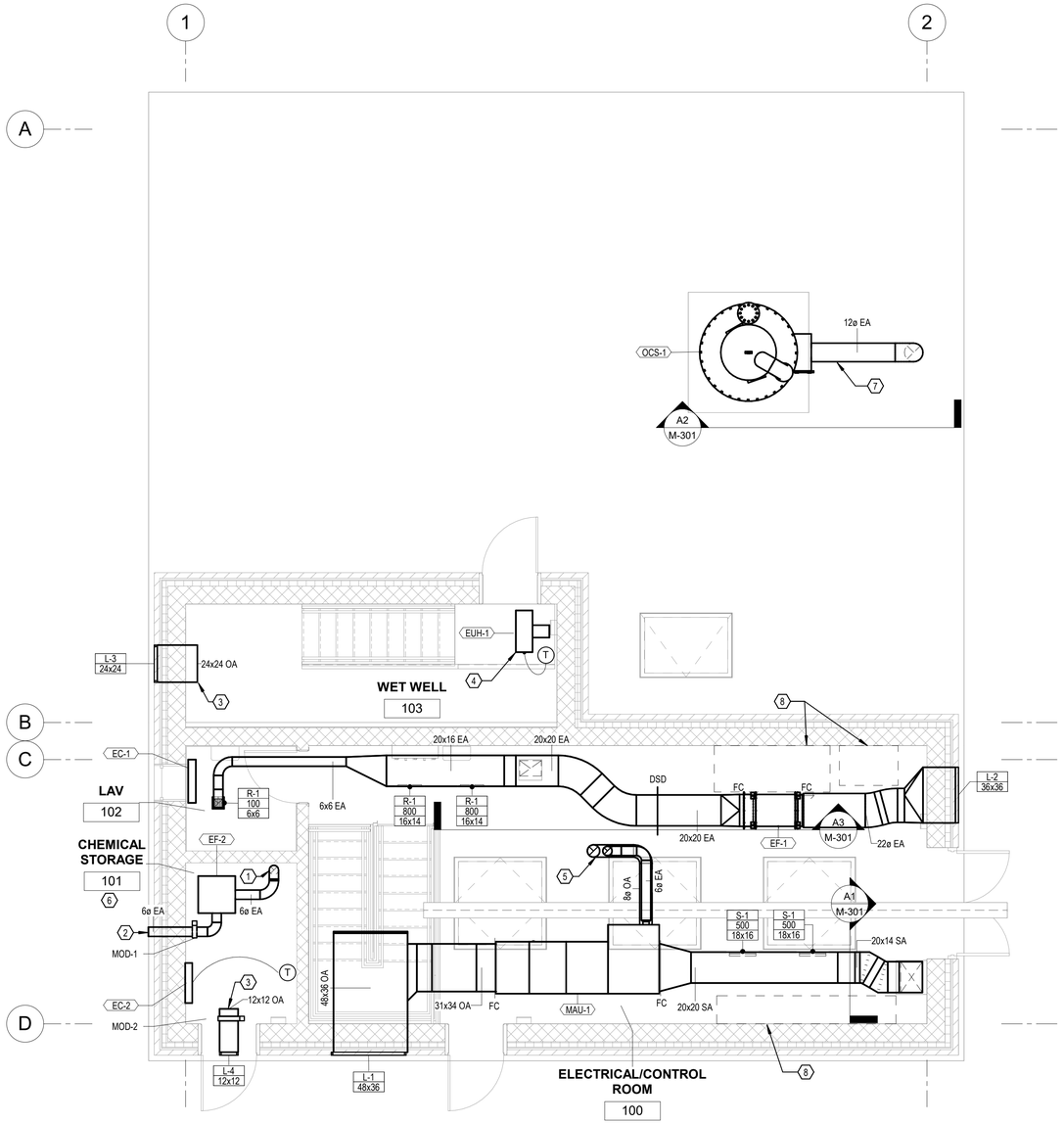
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BASEMENT MECHANICAL PLAN

M-101

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KEYNOTES

1. TERMINATE 6" OPEN END EA DUCT 18" AFF.
2. TERMINATE 6" EA DUCT TO EXTERIOR WITH 45 DEG BEVELED EDGE. PROVIDE 1/2" STAINLESS STEEL BIRD SCREEN ON OPEN END.
3. 1/2" X 1/2" WIRE MESH SCREEN ON OPEN END DUCT.
4. BOTTOM OF EUH-1 SHALL BE 9'-0" ABOVE FIRST FLOOR LEVEL.
5. VERTICAL CONCENTRIC VENT. REFER TO DETAIL A3/M-501.
6. ALL DUCTWORK WITHIN CHEMICAL STORAGE 101 SHALL BE CONSTRUCTED FROM PVC.
7. ALL DUCTWORK ASSOCIATED WITH ODOR CONTROL UNIT OCS-1 SHALL BE CONSTRUCTED OF 316 STAINLESS STEEL.
8. APPROXIMATE LOCATION OF ELECTRICAL EQUIPMENT. NO DUCTWORK OR MECHANICAL EQUIPMENT SHALL BE LOCATED DIRECTLY ABOVE. REFER TO CONTRACT EC-01 FOR EXACT LOCATIONS.

PLAN NORTH

A1 FIRST FLOOR LEVEL MECHANICAL PLAN
SCALE: 1/4" = 1'-0"

0 4' 8' 16'

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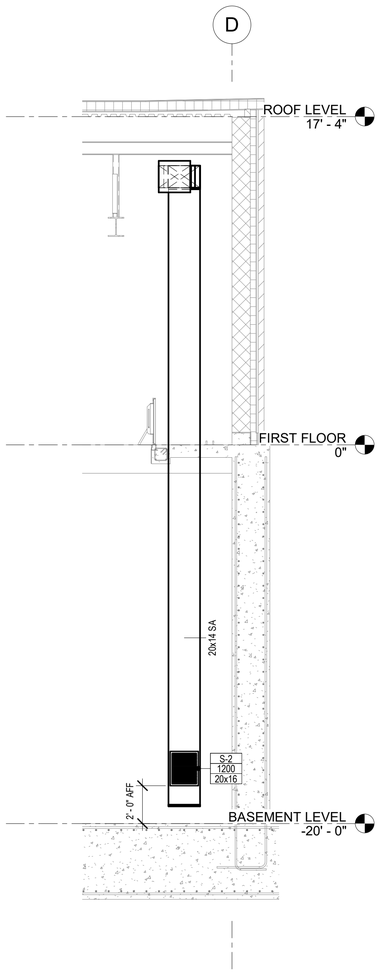
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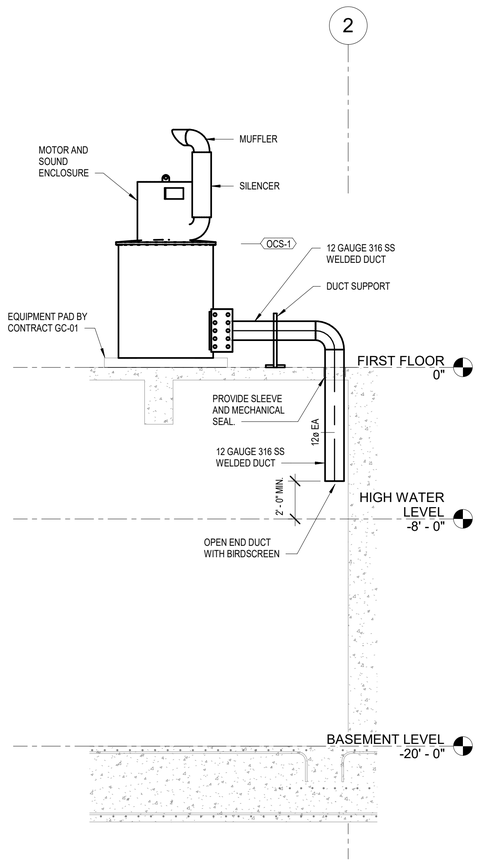
FIRST FLOOR MECHANICAL PLAN

M-102

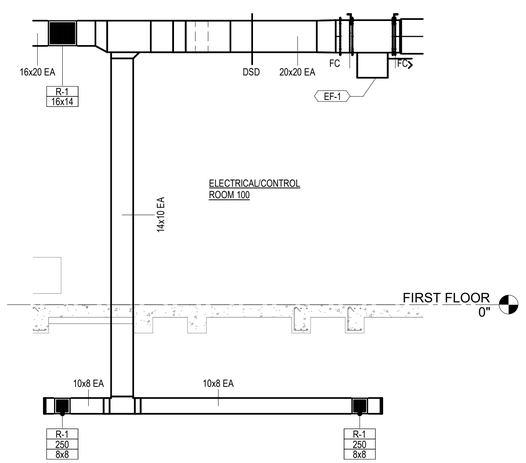
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A1 DRY WELL SUPPLY AIR SECTION
SCALE: 1/4" = 1'-0"



A2 WET WELL ODOR CONTROL EXHAUST AIR SECTION
SCALE: 1/4" = 1'-0"



A3 DRY WELL EXHAUST AIR SECTION
SCALE: 1/4" = 1'-0"

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TRIANGLE AREA CIVIL SITE DEVELOPMENT PUMP STATION
GRIFFISS INTERNATIONAL AIRPORT ONEIDA COUNTY, ROME, NEW YORK

MARK	DATE	DESCRIPTION

REVISIONS

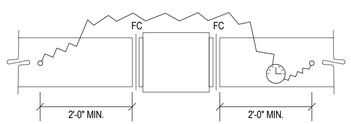
PROJECT NO: 146.205.011
DATE: MARCH 6, 2026
DRAWN BY: JKA
DESIGNED BY: JKA
CHECKED BY: MMR

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SECTIONS

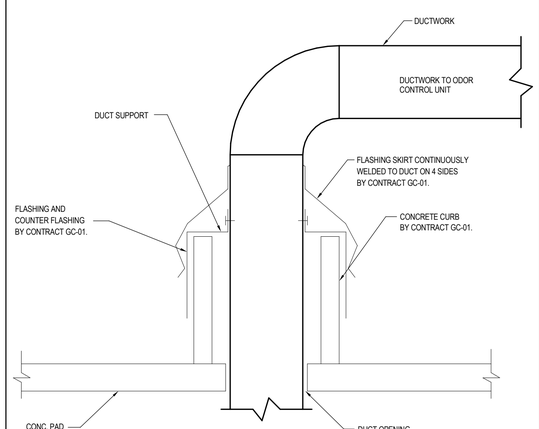
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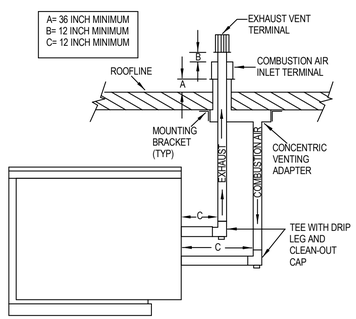


NOTES: DIFFERENTIAL PRESSURE SWITCH: DWYER, SERIES MP OR EQUAL WITH: 0-1"WC PRESSURE GAUGE RANGE, PRESSURE SET POINT ADJUSTMENT, LED LIGHT SWITCH STATUS. PROVIDE WITH STATIC PRESSURE TIP FOR ¼" METAL TUBING AND (2) TWO STATIC PRESSURE TIPS FOR LOW PRESSURE AND HIGH PRESSURE DUCT MOUNTING.

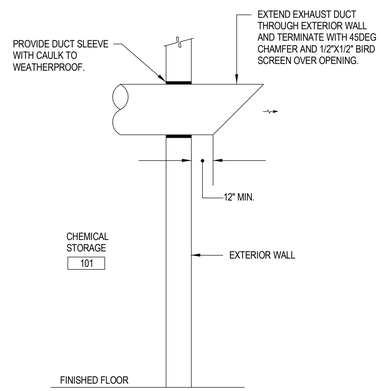
A1 DIFFERENTIAL PRESSURE SWITCH DETAIL
SCALE: NOT TO SCALE



A2 DUCT PENETRATION THROUGH CONCRETE PAD DETAIL
SCALE: NOT TO SCALE



A3 MAKE-UP AIR VENTING DETAIL
SCALE: NOT TO SCALE



A4 DUCT PENETRATION THROUGH EXTERIOR WALL DETAIL
SCALE: 12" = 1'-0"

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CERTIFICATE OF AUTHORIZATION# 021331

STATE OF NEW YORK · MATTHEW M. ROOK · No. 089732 · LICENSED PROFESSIONAL ENGINEER

REGISTRATION EXPIRES: 9/30/28

ONEIDA COUNTY · 1798 · NEW YORK

PDG POPLI DESIGN GROUP
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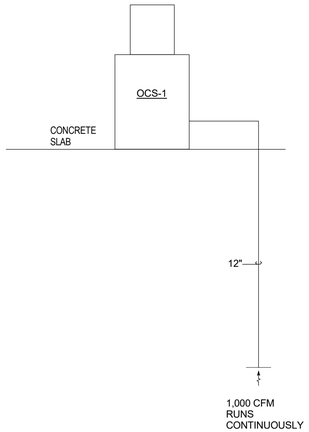
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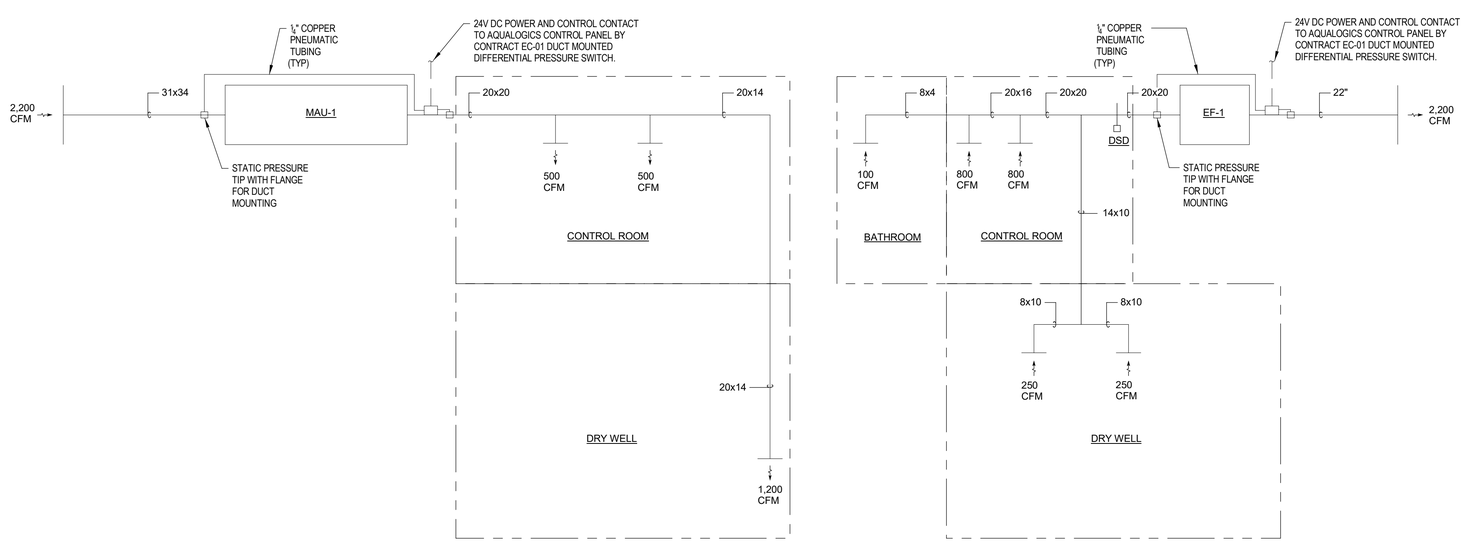
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C1 WET WELL AIR FLOW DIAGRAM

SCALE: NOT TO SCALE



A1 DRY WELL AIR FLOW DIAGRAM

SCALE: NOT TO SCALE

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ELECTRIC CONVECTOR SCHEDULE

NO.	WATTS	CAP. BTUH	ELECTRIC DATA	LENGTH (IN)	HEIGHT AND DEPTH	BASIS OF DESIGN	NOTES
EC-1	500	1,705	277/1/60	28	7"H X 5"D	INDEECO LBAI-912	1
EC-2	1000	3,410	277/1/60	26	6"H X 4.5"D	INDEECO 254-F0310103J-C2	2, 3

NOTES:
1. PROVIDE UNIT WITH INTEGRAL THERMOSTAT.
2. PROVIDE EXPLOSION-PROOF ELECTRIC HEATER.
3. PROVIDE WALL MOUNTED EXPLOSION-PROOF THERMOSTAT.

MOTORIZED DAMPER SCHEDULE

NO.	DUCT MOUNTING SIZE	CFM	ELECTRIC DATA	NEMA RATING	UNIT OPTIONS	REMARKS	BASIS OF DESIGN
MOD-1	6"	150	120/1/60	4X	CORROSION RESISTANT	---	GREENHECK VCDR-53
MOD-2	12X12	150	120/1/60	4X	CORROSION RESISTANT	---	GREENHECK VCD-23

ELECTRIC UNIT HEATER SCHEDULE

NO.	TYPE	CFM	TEMP RISE (DEG F)	ELECTRIC DATA (V/PH/HZ)	KW	AMPS	MOUNTING	BASIS OF DESIGN	NOTES
EUH-1	EXPLOSION PROOF	3110	26	480/3/60	25	31	WALL	INDEECO ULTRA-SAFE EXP	ALL

NOTES:
1. PROVIDE IN STAINLESS STEEL CORROSION-RESISTANT CONSTRUCTION.
2. PROVIDE WITH MANUFACTURER'S CORROSION RESISTANT WALL MOUNTING KIT.
3. PROVIDE WITH CORROSION RESISTANT EXPLOSION PROOF ADJUSTABLE REMOTE THERMOSTAT FOR WET LOCATIONS.
4. PROVIDE WITH 120V CONTROL CIRCUIT FOR REMOTE THERMOSTAT.
5. PROVIDE WITH FACTORY MOUNTED DISCONNECT SWITCH.

REGISTER AND GRILLE SCHEDULE

NO.	MAT'L	BLADE ORIENTATION	DAMPER	MOUNTING	FINISH	USE	REMARKS	BASIS OF DESIGN
R-1	ST	HORIZONTAL	NONE	DUCT	WHITE	EXHAUST	3/4" BLADE SPACING 0 DEGREE FIXED DEFLECTION	PRICE 510Z
S-1	ST	HORIZONTAL	OPPOSED BLADE	DUCT	WHITE	SUPPLY	3/4" BLADE SPACING ADJUSTABLE SINGLE DEFLECTION	PRICE 510
S-2	ST	HORIZONTAL	NONE	DUCT	WHITE	SUPPLY	3/4" BLADE SPACING ADJUSTABLE SINGLE DEFLECTION	PRICE 510

LOUVER SCHEDULE

NO.	LOCATION	SERVICE	SIZE	DEPTH	CFM	APD (IN)	FA (SQFT)	FA (%)	BIRD SCREEN	MAT'L	FINISH	BASIS OF DESIGN	NOTES
L-1	EXT. WALL - CONTROL RM	INTAKE	48X36	6"	2,800	0.026	6.77	57.1	YES	ALUM	---	GREENHECK ESD-635	1 & 2
L-2	EXT. WALL - CONTROL RM	EXHAUST	36X36	6"	2,800	0.042	4.98	56.1	YES	ALUM	---	GREENHECK ESD-635	1 & 2
L-3	EXT. WALL - STAIR WELL	VENT.	24X24	6"	1,000	0.026	2.0	50.0	YES	ALUM	---	GREENHECK ESD-635	1 & 2
L-4	CHEMICAL STORAGE	INTAKE	12X12	6"	150	0.023	1.0	50.0	YES	ALUM	---	GREENHECK ESD-635	1 & 2

NOTES:
1. PROVIDE FACTORY FLUOROPOLYMER COATING.
2. FINAL COLOR AS SELECTED BY ARCHITECT.

INDIRECT GAS-FIRED MAKE-UP AIR UNIT SCHEDULE

NO.	ORIENTATION	CFM	TSP (IN)	ESP (IN)	MOTOR (HP)	GAS TYPE	GAS PRESSURE (IN. WG)		INPUT MBH	ELECTRIC DATA			EAT (F)	LAT (F)	WEIGHT (LBS)	BASIS OF DESIGN	NOTES
							MIN	MAX		V/PH/HZ	MCA	MOP					
MAU-1	HORIZONTAL	2200	1.2	1	1	NATURAL	6	14	250	460/3/60	3.5	15.0	-5.7	64.2	1009	GREENHECK IGX-P112-H12-MF-I	1, 2

NOTES:
1. PROVIDE WITH MANUFACTURER'S VERTICAL CONCENTRIC VENTING KIT INCLUDING CONCENTRIC VENTING ADAPTER, EXHAUST VENT TERMINAL, AND COMBUSTION AIR INLET GUARD.
2. PROVIDE UNITS ACCESS PANELS AND BURNER SECTION ON LEFT SIDE OF UNIT IN THE DIRECTION OF THE AIR FLOW THROUGH THE UNIT FROM INTAKE TO DISCHARGE.
3. PROVIDE WITH DUCT SMOKE DETECTOR TO BE FIELD INSTALLED IN CONTROL ROOM EXHAUST AIR DUCTWORK. REFER TO PLANS FOR LOCATION.

ODOR CONTROL SYSTEM SCHEDULE

NO.	LOCATION	SERVICE	TYPE	EBRT (SEC)	CARBON CAPACITY (CU FT)	AIRFLOW	I.S.P. (IN WG)	ELECTRICAL			NOISE LEVEL W/ ATTEN.	OPERATING WEIGHT (LBS)	BASIS OF DESIGN	NOTES
								V/PH/HZ	HP	FLA				
OCS-1	EXTERIOR ABOVE WET WELL	WET WELL	CARBON ADSORPTION	3.53	59	1000 CFM @ 8 IN WG	4.5	460/3/60	5.0	7.6	55 DB	2642	ENVIRONMENTAL SOLUTIONS V1-TM-1000	ALL

NOTES:
1. PROVIDE MANUFACTURER'S SOUND ABSORB ENCLOSURE AND SILENCER FOR BLOWER.

EXHAUST FAN SCHEDULE

NO.	LOCATION	SERVICE	TYPE	CFM	E.S.P. (IN WG)	FAN RPM	FAN DRIVE	MOTOR DATA		ELECTRICAL				MAX. SONES	WEIGHT	BASIS OF DESIGN	NOTES
								HP	BHP	V/PH/HZ	MCA	MOCP	FLA				
EF-1	ELECTRICAL/CONTROL ROOM 100	BATHROOM/DRYWELL	INLINE	2,200	1.2	1383	BELT	3/4	0.72	460/3/60	N/A	15	1.6	11.1	90	GREENHECK QEI-15	-
EF-2	CHEMICAL ROOM	CHEMICAL ROOM EXH	INLINE	150	0.5	1148	BELT	0.33	0.04	120/1/60	-	-	-	-	-	MK PLASTICS CNW-160	1, 2, 3

NOTES:
1. CASING = FRP, IMPELLER = FRP.
2. BELT DRIVE, WEATHER COVER = FRP, ACCESS DOOR = FRP.
3. DRAIN WITH PLUG = PVC, HARWARE = 316 STAINLESS STEEL, PROVIDE UNIT WITH HANGING VIBRATION ISOLATION.

VENTILATION SEQUENCE OF OPERATIONS

CONTROL ROOM:

1. MAKEUP AIR UNIT (MAU-1) AND EXHAUST FAN (EF-1) SHALL RUN CONTINUOUSLY TO VENTILATE THE SPACE AT 6 ACPH.
2. MAKEUP AIR UNIT SHALL OPERATE AS HEATING ONLY. INDIRECT FIRED BURNER SHALL MODULATE TO MAINTAIN THE DISCHARGE AIR ADJUSTABLE SET POINT OF 59°F. MAU SHALL BE PROVIDED WITH A WALL-MOUNTED TEMPERATURE DIAL FOR USER ADJUSTMENT OF DISCHARGE AIR SETPOINT. WIRING AND CONDUIT FROM MAU TO TEMPERATURE DIAL SHALL BE BY CONTRACT MC-01.
3. SMOKE DETECTION: MAKEUP AIR UNIT (MAU-1) SHALL BE PROVIDED WITH A DUCT SMOKE DETECTOR WITH NO CONTACT THAT SHALL CLOSE UPON DETECTION OF SMOKE. CONTRACT EC-01 SHALL MONITOR NO CONTACT AND SHUT DOWN THE MAU AND EXHAUST FAN UPON DETECTION OF SMOKE. CONTRACT GC-01 SHALL PICK UP SIGNAL FROM DUCT SMOKE DETECTOR AND ISSUE AN ALARM.

CHEMICAL ROOM

1. EXHAUST FAN (EF-2) SHALL BE CONTROLLED BY AN ON/OFF SWITCH PROVIDED BY CONTRACT EC-01. WHEN THE SWITCH IS IN THE "ON" POSITION, EXHAUST FAN (EF-2) SHALL RUN TO VENTILATE THE SPACE CONTINUOUSLY. WHENEVER EXHAUST FAN IS ENERGIZED, THE NORMALLY SPRING CLOSED INTAKE AND EXHAUST DAMPERS SHALL POWER OPEN. WHEN THE SWITCH IS IN THE "OFF" POSITION, THE EXHAUST FAN SHALL BE DE-ENERGIZED AND THE ASSOCIATED EXHAUST AND INTAKE DAMPERS (MOD-1 AND MOD-2) SHALL SPRING CLOSED.
2. EXPLOSION-PROOF ELECTRIC HEATER (EC-2) SHALL BE CONTROLLED WITH A WALL MOUNTED EXPLOSION-PROOF THERMOSTAT.

WET WELL

1. VENTILATION SYSTEM SHALL BE PROVIDED WITH A MOTOR STARTER/CONTROLLER BY CONTRACT EC-01 WITH "ON/OFF" SWITCH FOR ODOR CONTROL UNIT (OCS-1). TYPICAL OPERATION SHALL BE WITH ODOR CONTROL UNIT (OCS-1) IN THE "ON" MODE.
   a. OCS-1 OPERATION: OSC-1 IS INTENDED TO RUN CONTINUOUSLY IN THE "ON" MODE TO VENTILATE THE SPACE AT 12 ACPH TO CONTAIN AND CONTROL THE STAIRWELL AND WET WELL ODORS. IN "OFF" MODE, THE ODOR CONTROL UNIT SHALL BE DENERGIZED.
2. EXPLOSION ELECTRIC UNIT HEATER (EUH-1) SHALL BE CONTROLLED WITH A REMOTE WALL MOUNTED THERMOSTAT.

PROOF OF AIRFLOW ALARMING:

1. MAKEUP AIR UNIT (MAU-1) AND EXHAUST FANS (EF-1) SHALL BE PROVIDED WITH DIFFERENTIAL PRESSURE SENSORS THAT WILL MONITOR THE PRESSURE ACROSS THE INLET AND OUTLET OF THE RESPECTIVE FAN. IF THE DIFFERENTIAL PRESSURE DROPS BELOW AN ADJUSTABLE SETPOINT OF 0.1" WC, THE NO WILL CLOSE. THE NO CONTACT WILL BE CONNECTED BY CONTRACT EC-01 TO THE AQUALOGICS CONTROL PANEL FOR MONITORING AND "LOSS OF AIRFLOW" ALARMING.

CONTROL RESPONSIBILITIES:

1. CONTROL WIRING AND CONDUIT SHALL BE PROVIDED AND INSTALLED BY CONTRACT EC-01, WITH THE EXCEPTION OF THE MAU LOW-VOLTAGE TEMPERATURE CONTROLLER, WHICH SHALL BE PROVIDED AND INSTALLED BY CONTRACT MC-01.

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SCHEDULES

M-601

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GENERAL NOTES

1. THESE CONTRACT DOCUMENTS ARE SCHEMATIC IN NATURE. FINAL DETAILS OF WORK SHALL BE PROVIDED BY THE CONTRACTOR TO COMPLY WITH PROJECT REQUIREMENTS AND TO INSTALL A COMPLETE SYSTEM. LOCATIONS OF DEVICES AND EQUIPMENT SHOW A GENERAL ARRANGEMENT AND/OR INTENDED FUNCTION. ALL COMPONENTS TO BE INSTALLED ARE NOT SHOWN ON ALL DRAWINGS OR DETAILS, BUT SHALL BE INCLUDED AS NECESSARY. IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY THE EXACT LOCATION OF ALL EQUIPMENT.
2. THE CONTRACT SPECIFICATIONS FOR THIS PROJECT ARE AN INTEGRAL PART OF THESE CONTRACT DOCUMENTS AND SHALL BE CONSIDERED PART OF AND COMPLIMENTARY TO THE INFORMATION IN THESE CONTRACT DRAWINGS. WHEN THE CONTRACT DRAWINGS AND SPECIFICATIONS APPEAR TO BE IN CONFLICT, THE MORE STRINGENT REQUIREMENT SHALL BE FOLLOWED. HOWEVER, THE DIRECTION OF THE ARCHITECT/ENGINEER SHALL SUPERSEDE THIS PRECEDENCE.
3. ALL REFERENCES TO THE CONTRACTOR REFERS TO THE CONTRACTOR OR CONTRACTORS RESPONSIBLE FOR ANY AND ALL WORK SHOWN ON THESE ELECTRICAL CONTRACT DOCUMENTS.
4. ALL MATERIAL AND EQUIPMENT SHALL BE UL LISTED AS APPROPRIATE FOR THE APPLICATION.
5. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO COMMENCEMENT OF ANY WORK OR SHOP FABRICATION. REQUIRED CHANGES TO THE WORK AS SHOWN ON THESE CONTRACT DOCUMENTS SHALL BE APPROVED AND ACKNOWLEDGED BY THE ENGINEER, OTHER TRADES, AND OWNER, IN WRITING, PRIOR TO ANY CONSTRUCTION. BEFORE INSTALLATION OR FABRICATION OF WORK, THE CONTRACTOR SHALL CHECK FOR ALL REQUIRED CLEARANCES, INCLUDING DOOR SWINGS AND ELEVATIONS, TO AVOID INTERFERENCE WITH OTHER TRADES. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND COORDINATING WITH ALL CONTRACT DOCUMENTS, SHOP DRAWINGS, CONTRACTOR SUBMITTALS AND EQUIPMENT CONTRACT DOCUMENTS.
6. COORDINATE THE WORK ON THESE DRAWINGS WITH THE WORK OF ALL OTHER DRAWINGS, CONTRACTS AND ANY OTHER PROJECTS IN THE AFFECTED AND/OR ADJACENT AREAS. COORDINATE SHUTDOWN OF EXISTING SYSTEMS WITH OWNER AND OTHER TRADES. THE CONTRACTOR IS RESPONSIBLE FOR DISABLING EXISTING SYSTEMS AS REQUIRED, AND IS RESPONSIBLE FOR PERFORMING ALL WORK AS REQUIRED BY CODES, REGULATIONS AND LAWS OF THE LOCAL, STATE AND FEDERAL GOVERNMENTS AND OTHER AUTHORITIES AND AGENCIES WITH LAWFUL JURISDICTION.
7. PROVIDE GROUNDING & BONDING IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE 2023 AND THE CONTRACT DOCUMENTS. ALL CONDUCTORS SHALL BE COPPER UNLESS INDICATED OTHERWISE. ALL FEEDERS, BRANCH CIRCUITS, AND OTHER WIRING SYSTEMS SHALL HAVE A SEPARATE DEDICATED INSULATED GROUND WIRE EXCEPT AS SPECIFICALLY NOTED. ELECTRICALLY CONDUCTIVE MATERIALS ASSOCIATED WITH THE PROJECT SHALL BE CONNECTED TOGETHER IN A MANNER THAT CREATES A PERMANENT, LOW IMPEDANCE PATH FOR GROUND FAULT CURRENT. ALL BRANCH CIRCUITS REQUIRING A NEUTRAL SHALL HAVE SEPARATE DEDICATED FULL SIZE NEUTRAL CONDUCTORS OR AS INDICATED OTHERWISE.
8. PROVIDE ELECTRICAL CONNECTION FOR EVERY FIXTURE, ITEM OR ANY EQUIPMENT REQUIRING ANY ELECTRICAL CONNECTION WHICH IS SHOWN ON ANY CONTRACT DRAWING OR NOTED IN ANY TECHNICAL SPECIFICATION. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND CONDITIONS FOR WARRANTY AND GUARANTEE. PROVIDE ALL ACCESSORIES REQUIRED FOR A COMPLETE AND SATISFACTORY INSTALLATION READY FOR CONTINUOUS USE.
9. EXISTING CIRCUITS, AND DEVICES, WHICH ARE PRESENT OR PASS THROUGH AFFECTED AREAS, SHALL BE MAINTAINED OPERATIONAL, AS REQUIRED, AND AS DIRECTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND AVOIDING, IF POSSIBLE, THESE CIRCUITS AND DEVICES. IF DISTURBED, UNLESS OTHERWISE APPROVED CIRCUITS AND DEVICES, SHALL BE REPAIRED, OR REPLACED, AND MADE OPERATIONAL AS SOON AS POSSIBLE AND AT THE CONTRACTORS EXPENSE. ALL INTERRUPTIONS TO LIFE SAFETY SYSTEMS INCLUDING MONITORING AND ALARM SYSTEMS SHALL BE KEPT TO A MINIMUM AND SHALL BE RESTORED AS SOON AS POSSIBLE.
10. THE CONTRACTOR IS RESPONSIBLE FOR ANY EQUIPMENT OR WORK THAT MAY BE REQUIRED TO BE TEMPORARILY DISCONNECTED, REMOVED AND/OR RELOCATED AS PART OF THE CONTRACTORS WORK OR THE WORK OF OTHER TRADES. THE EQUIPMENT SHALL BE PROTECTED FROM DAMAGE. THE CONTRACTOR IS RESPONSIBLE TO RECONNECT AND MAKE ELECTRICALLY OPERATIONAL ALL EQUIPMENT THAT IS DISCONNECTED AND/OR RELOCATED AS PART OF THE WORK.
11. ALL EQUIPMENT SHALL BE INSTALLED IN A NEAT AND WORKMAN LIKE MANNER, RECTILINEAR TO BUILDING STRUCTURE. ALL WIRING SHALL BE RUN IN RACEWAY UNLESS SPECIFIED OTHERWISE.
12. ALL RACEWAYS THROUGH BUILDING EXPANSION JOINTS SHALL BE EQUIPPED WITH EXPANSION FITTINGS. CUT AND PATCH BUILDING STRUCTURE AS REQUIRED. PROVIDE UL LISTED FIRE STOP METHODS FOR PENETRATIONS OF FIRE-RATED BUILDING COMPONENTS OR BARRIERS PER CONTRACT SPECIFICATIONS. WATERPROOF ALL EXTERIOR OUTDOOR PENETRATIONS.
13. ALL CUTTING AND PATCHING OF BUILDING COMPONENTS REQUIRED TO ACCOMMODATE THE WORK OF THIS CONTRACT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ALL PATCHING SHALL MATCH THE EXISTING COMPONENTS AND FINISHES. CUTTING AND PATCHING WORK SHALL BE PERFORMED BY PERSONNEL TRAINED AND REGULARLY EMPLOYED FOR SUCH SERVICES. COORDINATE ALL WORK ON EXISTING BUILDING COMPONENTS WITH OWNER AND OTHER TRADES.
14. CONTRACTOR SHALL PROVIDE NECESSARY SUPPORT FRAMING, STIFFENERS, BRACING, AND HANGERS TO ENSURE A COMPLETE AND DURABLE SYSTEM. SUPPORTS MAY VARY FROM THOSE SHOWN IN DETAILS AND AS REQUIRED FOR EQUIPMENT TO BE FURNISHED OR FOR EXISTING FIELD CONDITIONS. DEVIATIONS FROM THE CONTRACT DOCUMENTS MUST BE APPROVED BY THE ENGINEER.
15. 15A & 20A CIRCUITS SHALL BE FED WITH #12AWG CONDUCTORS AND A #12AWG GROUND MINIMUM, UNLESS STATED OTHERWISE. CIRCUITS PROTECTED AT GREATER THAN 20A, UP TO AND INCLUDING 30A, SHALL BE FED WITH #10AWG CONDUCTORS AND A #10AWG GROUND, UNLESS STATED OTHERWISE. CIRCUITS PROTECTED AT GREATER THAN 30A, SHALL BE FED AS SHOWN ON THE DRAWINGS OR AS REQUIRED BY CODE AND REGULATIONS, IF NOT INDICATED.
16. ALL UNDERGROUND HORIZONTAL CONDUITS IN TRENCH SHALL BE SCHEDULE 80 PVC CONDUIT. ALL VERTICAL CONDUITS, CONDUIT CONNECTORS AND BENDS SHALL BE RGS CONDUIT UNLESS OTHERWISE SPECIFIED EITHER ON THESE DRAWINGS OR IN SPECIFICATION "260533 - RACEWAYS AND BOXES FOR ELECTRICAL SYSTEMS."
17. THE CONTRACTOR SHALL MAINTAIN RECORD DRAWINGS ON SITE SHOWING CHANGES MADE DUE TO FIELD CONDITIONS OR ENGINEER APPROVED CHANGES. THE RECORD SET MUST BE COMPLETE AND CURRENT AND AVAILABLE FOR INSPECTION WHEN REQUISITIONS FOR PAYMENT ARE SUBMITTED. RECORD AS-BUILT DRAWINGS SHALL BE PROVIDED BY THE CONTRACTOR TO THE OWNER AT THE END OF THE PROJECT. ELECTRONIC VERSIONS, AS APPROVED BY THE ENGINEER, ARE ACCEPTABLE.
18. BOLD LINE WEIGHTS INDICATE NEW, THIN LINE WEIGHTS INDICATE EXISTING. SEE ANNOTATION SYMBOLS FOR VISUAL REPRESENTATION.
19. ELECTRICAL CHARACTERISTICS SHALL BE VERIFIED WITH EQUIPMENT MANUFACTURER AND ITEMS OF SPECIFIC MANUFACTURERS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS AND/OR MANUFACTURER'S REPRESENTATIVE'S DIRECTIONS.
20. TO THE BEST OF THE ARCHITECT'S/ENGINEER'S KNOWLEDGE, BELIEF AND PROFFESSIONAL JUDGEMENT, THESE PLANS AND/OR SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2025 NEW YORK STATE BUILDING CODE.
21. TO THE BEST OF THE ARCHITECT'S/ENGINEER'S KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND/OR SPECIFICATIONS ARE IN COMPLIANCE WITH THE ENERGY CODE AND THE 2025 SUPPLEMENT TO THE ENERGY CODE.

GENERAL NOTES FOR LIGHTNING PROTECTION

1. LIGHTNING PROTECTION SYSTEM INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA 780, UL 96 AND LPI-175 STANDARDS.
2. ACTUAL JOBSITE CONDITIONS MAY REQUIRE ALTERATIONS IN AIR TERMINAL LOCATIONS. VERIFY ALL CHANGES WITH THE ENGINEER.
3. NO BEND OF CONDUCTORS SHALL FORM AN ANGLE OF LESS THAN 90 DEG NOR SHALL HAVE A RADIUS OF BEND LESS THAN 8". BARE COPPER MATERIAL SHALL NOT BE INSTALLED ON ALUMINUM SURFACES AND ALUMINUM MATERIAL SHALL NOT BE INSTALLED ON COPPER SURFACES.
4. AIR TERMINALS SHALL BE SPACED EVERY 20'-0" MAXIMUM AROUND THE ROOF PERIMETER AND/OR ALONG ROOF RIDGES, AIR TERMINALS SHALL BE LOCATED WITHIN 2'-0" OF OUTSIDE CORNERS AND AIR TERMINALS SHALL BE SPACED EVERY 50'-0" MAXIMUM ON CENTER ROOF AREAS, WHERE INDICATED.
5. THE BUILDING STEEL SHALL BE GROUNDED EVERY 60'-0" AROUND THE PERIMETER OF THE BUILDING. BUILDING STEEL SHALL BE BONDED AT THE BASE. THE ROOF PERIMETER CABLE SHALL BE ATTACHED TO THE BUILDING STEEL AT 100'-0" INTERVALS ALONG THE PERIMETER OF THE ROOF. COORDINATE WITH THE ROOFING CONTRACTOR.
6. ALL LIGHTNING PROTECTION CONDUCTORS SHALL BE FASTENED AND SECURED EVERY 3'-0" MAXIMUM.
7. BOND ALL METAL BODIES WITHIN 6' ELEVATION OF THE MAIN LIGHTNING CONDUCTORS SUCH AS EXHAUST FANS, ROOF VENTS, METAL COOLING TOWERS, HVAC UNITS, LADDERS, RAILINGS, ANTENNAS, SKYLIGHTS, METAL STACKS, AND ANY OTHER LARGE METAL BODY WHOSE HEIGHT EXCEEDS OF THE AIR TERMINAL IN USE, UNLESS PROTECTED BY HIGHER ROOF ELEVATION.
8. ADHESIVE COMPOUNDS TO BE PROVIDED BY THE CONTRACTOR. THE ADHESIVE COMPOUND SHALL BE COMPATIBLE WITH THE ROOFING SYSTEM. ROOF PENETRATIONS SHALL BE COORDINATED WITH AND APPROVED BY OWNER AND OTHER TRADES. CONTRACTOR SHALL ENSURE THAT ALL ROOF PENETRATIONS ARE SECURED.

LIGHTNING PROTECTION SYMBOLS

- LIGHTNING ARRESTOR / AIR TERMINAL

ELECTRICAL SYMBOLS

- X — DUPLEX RECEPTACLE
  X: AS INDICATED ABOVE
  AC = INSTALLED ABOVE COUNTER BACKSPLASH
  AF = ARC FAULT CIRCUIT INTERRUPTING TYPE
  BC = INSTALLED BELOW COUNTER
  D = DEDICATED
  G = GROUND FAULT CIRCUIT INTERRUPTING (GFCI) TYPE
  WP = GFCI & WEATHER PROOF WHILE IN USE COVER
  4X = NEMA 4X REQUIRMENTS, GFCI & WEATHER PROOF WHILE IN USE COVER
- $ — MANUAL MOTOR DISCONNECT SWITCH
- GROUND ROD
- T — TRANSFORMER
- ELECTRICAL PANELBOARD (SEE PANELBOARD SCHEDULE)
- V, X, Y — DISCONNECT SWITCH
  V = VOLTAGE
  X = # OF POLES
  Y = FRAME RATING (AMPS)
- V, X, Y, Z — ENCLOSED CIRCUIT BREAKER
  V = VOLTAGE
  X = # OF POLES
  Y = FRAME RATING (AMPS)
  Z = TRIP RATING (AMPS)
- V, X, Y, Z — FUSED DISCONNECT SWITCH
  V = VOLTAGE
  X = # OF POLES
  Y = FRAME RATING (AMPS)
  Z = FUSE RATING (AMPS)
- V, X, Y, Z — HAND/OFF/AUTO MOTOR STARTER/CONTROLLER
  V = VOLTAGE
  X = # OF POLES
  Y = FRAME RATING (AMPS)
  Z = HORSE POWER OF MOTOR (HP)
- V, X, Y, Z — COMBINATION MOTOR STARTER
  V = VOLTAGE
  X = # OF POLES
  Y = FRAME RATING (AMPS)
  Z = FUSE RATING (AMPS)
- VFD — VARIABLE FREQUENCY DRIVE
- 0.5 — MOTOR CONNECTION - 0.5 INDICATES 1/2 HORSEPOWER
- XX — PB= PULL BOX
  WW= WIREWAY
  HH= HANDHOLE
  MH= MANHOLE
- ATS — AUTOMATIC TRANSFER SWITCH
- M — METER
- CONDUIT PENETRATION DESCENDING
- CONDUIT PENETRATION ASCENDING
- CABLE TRAY
- CABLE TRAY T-ELBOW FITTING
- CABLE TRAY ELBOW FITTING

LIGHTING EQUIPMENT SYMBOLS

- $ #, X — LIGHT SWITCH - LIVE VOLTAGE, LOW VOLTAGE
  # : AS INDICATED ABOVE
  3 = 3-WAY
  X : AS INDICATED ABOVE
  C1 = CLASSIFICATION 1, DIVISION 1 RATED
  4X = NEMA 4X
- EXIT SIGN - SURFACE/WALL MOUNTED

ANNOTATION SYMBOLS

- EQUIPMENT AND DEVICES TO BE SUPPLIED & INSTALLED BY E.C.
- X — KEYED NOTE
- X — REMOVAL NOTE
- X — CONTROLS COORDINATION NOTE
- X — SCHEDULED IDENTIFIER

ALARM SYMBOLS

- DUCT SMOKE DETECTOR
- CG — GAS DETECTOR

SINGLE LINE WIRING DIAGRAM SYMBOLS

- FUSED DISCONNECT:
  xxAF = AMPERE FRAME RATING
  xxAT = AMPERE TRIP RATING
  xP = POLES
  CL = CURRENT LIMITING
- COMBINATION STARTER WITH FUSED DISCONNECT:
  xxAF = AMPERE FRAME RATING
  xxAT = AMPERE TRIP RATING
  xP = POLES
  CL = CURRENT LIMITING
- ENCLOSED SWITCH:
  ###V = VOLTAGE
  xxAF = AMPERE FRAME RATING
  xP = POLES
- ENCLOSED STARTER/CONTROLLER
- ENCLOSED SWITCH BREAKER:
  xxAF = AMPERE FRAME RATING
  xxAT = AMPERE TRIP RATING
  xP = POLES
  CL = CURRENT LIMITING
- WHM — CURRENT TRANSFORMER AND METER CABINET
- GROUND CONNECTION
- CIRCUIT BREAKER xxA= AMPERE, xP= POLES, ST=SHUNT TRIP, CL=CURRENT LIMITING
- PT — POTENTIAL TRANSFORMER
  4160-120V = 4160 PRIMARY, 120 SECONDARY
- CURRENT TRANSFORMER, RATIO AS NOTED (EG. 5:1 INDICATES 5 PRIMARY TURNS TO 1 SECONDARY TURN)
- POWER TRANSFORMER xx=KVA
  480-208/120V = 480 PRIMARY, 208/120 SECONDARY
- N E L — XTS — X: AS INDICATED
  A = AUTOMATIC TRANSFER SWITCH
  M = MANUAL TRANSFER SWITCH
- 0.5 — MOTOR CONNECTION - 0.5 INDICATES 1/2 HORSEPOWER
- M — ELECTRICAL METER
  M: WHM = WATT HOUR METER
  V= VOLT METER
  A= CURRENT METER
  DM= DEMAND METER
- G — ELECTRICAL POWER GENERATOR, xxKW= KW SIZE, xxx/yyy V= VOLTAGE
- XX — PB= PULL BOX
  MH= MANHOLE
  HH= HANDHOLE
- UTILITY POLE - POLE #, UTILITY NAME, UTILITY PROVIDED
- VFD — VARIABLE SPEED DRIVE
- PCC — POINT OF COMMON CONNECTION - POINT OF GROUND TO NEUTRAL BOND

LINE TYPES

- FO — FIBER OPTIC LINE
- OH — OVERHEAD ELECTRIC
- UE — UNDERGROUND ELECTRIC

A	AMPERE
AC	ALTERNATE CURRENT
ACTR	ABOVE COUNTER
AF	AMPERE FRAME
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLER UNIT
AIC	AMPERE INTERRUPTING CAPACITY
AT	AMPERE TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AUX	AUXILIARY
AWG	AMERICAN WIRE GAUGE
BC	BARE COPPER
BCTR	BELOW COUNTER
BRK	BREAKER
BOH	BACK OF HOUSE
C	CONDUIT
CAT6A	CATEGORY-6A
CKT	CIRCUIT
CLL	CONTRACT LIMIT LINE
CMH	COMMUNICATION MANHOLE
COMM	COMMUNICATION
CPB	COMMUNICATION PULLBOX
CT	CURRENT TRANSFORMER
D	DEPTH
DC	DIRECT CURRENT
DISC	DISCONNECT
DP	DISTRIBUTION PANEL
E.C.	ELECTRICAL CONTRACTOR | CONTRACT EC-01
EER	ELECTRICAL EQUIPMENT ROOM
ELECT	ELECTRICAL
ELEV	ELEVATION
EMT	ELECTRICAL METALLIC TUBING
EQUIP	EQUIPMENT
F	FUSE
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FBO	FURNISHED BY OWNER
FD/SD	FIRE DAMPER / SMOKE DETECTOR
FLA	FULL LOAD AMPERES
FMC	FLEXIBLE METAL CONDUIT
G.C.	GENERAL CONTRACTOR | CONTRACT GC-01
GFI	GROUND FAULT INTERRUPT
GFCI	GROUND FAULT CIRCUIT INTERRUPT
GND	GROUND
GTPS	GRIFFISS TRIANGLE PUMP STATION
H	HEIGHT
HP	HORSEPOWER
HZ	HERTZ
IG	ISOLATED GROUND
IMC	INTERMEDIATE METAL CONDUIT
ISP	INTERNET SERVICE PROVIDER
JB	JUNCTION BOX
KA	KILOAMP
KV	KILOVOLT
KVA	KILOVOLT AMPERES
KW	KILOWATT
KWH	KILOWATT HOUR
L	LENGTH
LFMC	LIQUID-TIGHT FLEXIBLE METAL CONDUIT
LTG	LIGHTING
MA	MILLIAMPERES
MAX	MAXIMUM
M.C.	MECHANICAL CONTRACTOR | CONTRACT MC-01
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCM	1000 CIRCULAR MILLS
MECH	MECHANICAL
MIN	MINIMUM
MISC	MISCELLANEOUS
MLO	MAIN LUGS ONLY
MM	MULTI MODE
MTD	MOUNTED
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NO	NORMALLY OPEN
NTS	NOT TO SCALE
PB	PULLBOX
P.C.	PLUMBING CONTRACTOR | CONTRACT PC-01
PCC	PONT OF COMMON CONNECTION
PNL	PANEL
PVC	POLYVINYL CHLORIDE
PWR	POWER
POC	POINT OF CONNECTION
REF	REFERENCE
RGS	RIGID GALVANIZED STEEL
RM	ROOM
RMS	ROOT-MEAN-SQUARE
RCPT	RECEPTACLE
SLC	SIGNALING LINE CIRCUIT
SPECS	SPECIFICATIONS
SS	SURGE SUPPRESSION
SST	STAINLESS STEEL
ST	SHUNT TRIP
SW	SWITCH
SWBD	SWITCHBOARD
TSP	TWISTED SHIELDED PAIR CABLE
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
V	VOLT
VFD	VARIABLE FREQUENCY DRIVE
W	WATT, WIRE, WIDTH
WP	WEATHERPROOF
XFMR	TRANSFORMER
XP	EXPLOSION PROOF

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TRIANGLE AREA CIVIL SITE DEVELOPMENT PUMP STATION GRIFFISS INTERNATIONAL AIRPORT ONEIDA COUNTY, ROME, NEW YORK

MARK	DATE	DESCRIPTION

REVISIONS

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DRAWN BY:	PRK
DESIGNED BY:	PRK
CHECKED BY:	WEF

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ABBREVIATIONS, NOTES AND SYMBOLS

E-001

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GENERAL NOTES:

1. ELECTRICAL UTILITY IS GRIFFISS UTILITY SERVICES CORPORATION (GUSC).
2. SEE SHEET E-600 FOR ELECTRICAL SINGLE-LINE DIAGRAM AND CONDUIT SCHEDULE.
3. SEE SHEET E-106 FOR CONTROLS CONDUIT SCHEDULE.
4. ALL PENETRATIONS TO BE SEALED AND FIRE RATED TO MATCH THE CONSTRUCTION OF THE PENETRATED WALL OR FLOOR.
5. COORDINATE WITH G.C. FOR ALL STUB-UP/RISER POINT LOCATIONS.

KEYED NOTES: (#)

1. E.C. TO PROVIDE CONDUITS BACK TO WITHIN 5 FEET OF THE UTILITY'S NETWORK CONNECTION POINT, JUST WITHIN THE PROPERTY LINE. SEE SHEET CS-100 OVERALL SITE PLAN AND SHEET CS-101 PUMP STATION SITE PLAN FOR EXACT CONDUIT ROUTING BETWEEN THE UTILITY TRANSFORMER (PUMP STATION XFMR) AND POINT OF CONNECTION TO UTILITY. COORDINATE WITH UTILITY FOR EXACT ROUTING AND LOCATION OF NETWORK CONNECTION POINT. SEE A1/E-500 FOR CONDUIT TRENCH DETAIL.
2. PAD-MOUNTED TRANSFORMER, ELECTRICAL METER, METER ENCLOSURE AND CT CABINET FURNISHED AND INSTALLED BY ELECTRICAL UTILITY. COORDINATE WITH UTILITY FOR EXACT LOCATION OF TRANSFORMER AND CONNECTION TO SECONDARY CABLE TERMINATION POINTS AND LOCATIONS. EQUIPMENT PAD PROVIDED BY E.C. COORDINATED WITH G.C. FOR LOCATION. SEE A1/E-501 FOR TRANSFORMER UTILITY PAD VAULT DETAIL AND GROUNDING INFORMATION.
3. CONDUIT STUB-UP LOCATION, PENETRATING THROUGH GENERATOR ENCLOSURE PAD INTO GENERATOR WALK-IN ENCLOSURE. GENERATOR ENCLOSURE PAD PROVIDED BY E.C. COORDINATED WITH G.C. AND GENERATOR MANUFACTURER. SEE A3/E-501 FOR GENERATOR ENCLOSURE PAD DETAIL AND COORDINATE WITH GENERATOR MANUFACTURER FOR LOCATION OF STUB-UP ENTRANCE INTO GENERATOR WALK-IN ENCLOSURE.
4. PROVIDE GROUND ROD FOR GROUND CONNECTION TO GENERATOR WALK-IN ENCLOSURE. SEE SHEET E-601 FOR GROUND ROD DETAIL. COORDINATE WITH G.C. FOR EXACT LOCATION OF GENERATOR AND GENERATOR MANUFACTURER FOR CONNECTIONS OF GENERATOR.
5. COORDINATE WITH GENERATOR MANUFACTURER FOR RECOMMENDED SIZING AND FINAL TERMINATION POINTS OF SIGNAL WIRING BETWEEN GTPS-ATS AND THE GENERATOR.

OCS-1

TOP OF STRUCTURE: WET WELL

PARKING/DRIVEWAY

VERTICAL/RISER POINTS. ROUTE CONDUITS ABOVE WET WELL/ALONG TOP OF STRUCTURE.

ROUTE CONDUIT VERTICALLY UP THE SIDE OF THE BUILDING. PENETRATE WALL BELOW CEILING.

ROUTE CONDUITS VERTICALLY UP/DOWN THE SIDE OF THE BUILDING. PENETRATE WALL ABOVE EQUIPMENT AND DROP TO ENTER THROUGH TOP OF EQUIPMENT.

ROUTE CONDUIT ALONG CEILING/BELOW ROOF PRIOR TO WALL PENETRATIONS TO EXTERIOR OF BUILDING.

SECTION 2 | GTPS-SWBD-1 SECTION 1 | GTPS-ATS

SERVICE DISCONNECT (CIRCUIT BREAKER BASED) 480/277V 3P, 1000A, 1000A TRIP NEMA-3R

ROUTE CONDUITS ALONG CEILING/BELOW ROOF PRIOR TO CONNECTION TO EQUIPMENT.

PUMP STATION CONTROL PANEL & PLC

VFD-1 | VFD-2 | VFD-3

GENERATOR LOAD CENTER

STAIRWAY

GENERATOR

WALK-IN ENCLOSURE

STAIRWAY

SEE A1/E-501 FOR CONDUIT TRENCHING DETAIL

CONCRETE PAD SEE A3/E-501 FOR DETAIL AND SHEET CS-104 FOR EXACT LOCATION

CONCRETE PAD SEE A1/E-501 FOR DETAIL AND SHEET CS-104 FOR EXACT LOCATION

PUMP STATION XFMR (PAD MOUNTED)

ACCESS ROAD/DRIVEWAY

PLAN NORTH

A1 PUMP STATION ELECTRICAL SITE PLAN & INTERIOR CONDUIT PLAN

SCALE: 1/4" = 1'-0"

0 2' 4' 8'

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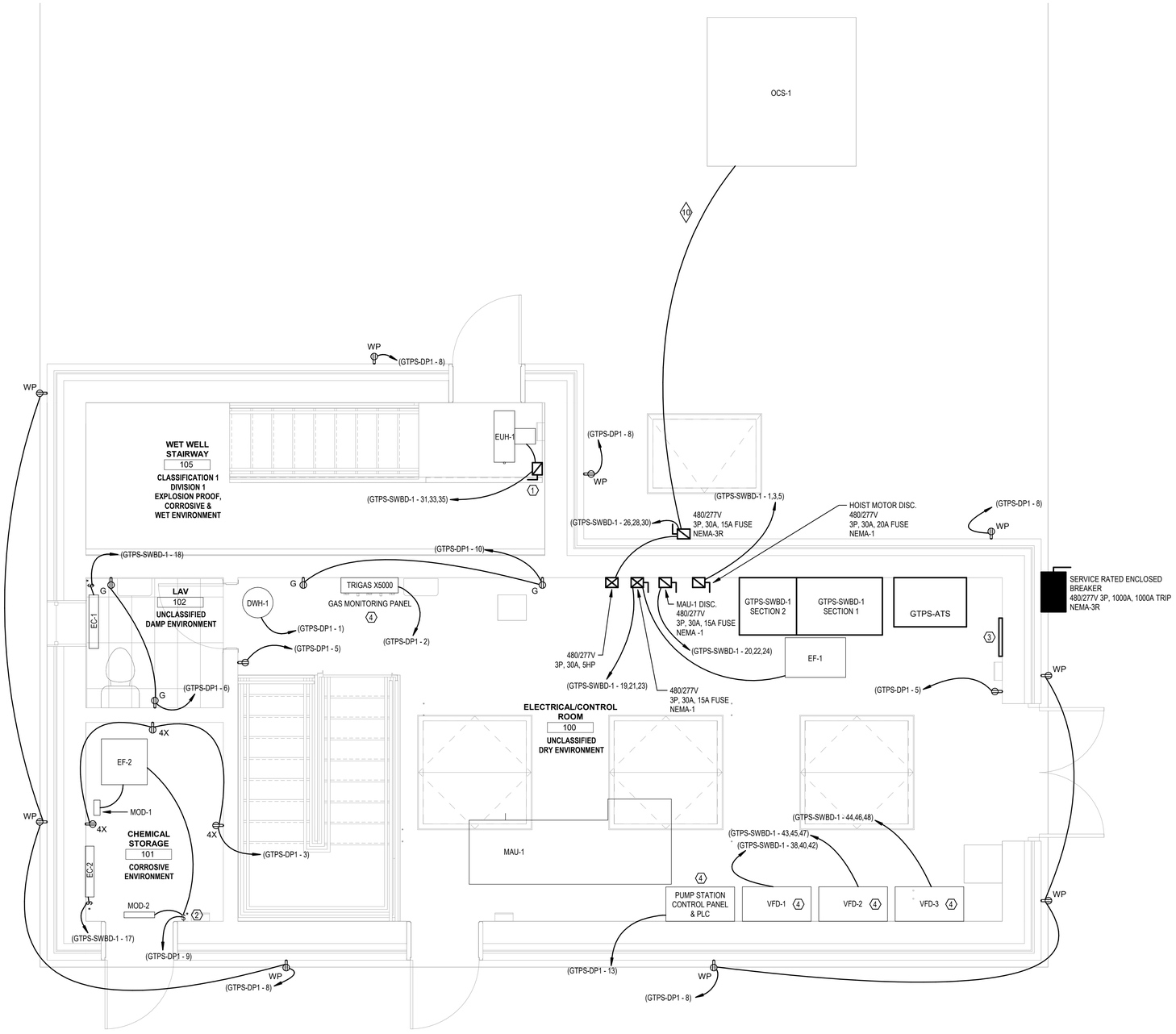
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PUMP STATION ELECTRICAL SITE & INTERIOR CONDUIT PLAN

E-101

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GENERAL NOTES:

1. COORDINATE WITH M.C. AND P.C. FOR EXACT LOCATIONS AND CONNECTIONS OF ALL MECHANICAL AND PLUMBING EQUIPMENT. SEE MECHANICAL DRAWINGS FOR MECHANICAL SCHEDULES AND DETAILS. SEE PLUMBING DRAWINGS FOR PLUMBING SCHEDULES AND DETAILS.
2. FOR FINAL CONNECTIONS TO PUMPS AND MOTORS, PROVIDE SS-LFMC (STAINLESS STEEL - LIQUIDTIGHT FLEXIBLE METAL CONDUIT). THE COMBINED LENGTH OF SS-LFMC IN THE SAME EFFECTIVE GROUND-FAULT CURRENT PATH SHALL NOT EXCEED 3 FEET IN LENGTH. SS-LFMC CONDUIT SIZE TO MATCH THE SELECTED CONDUIT SIZE FOR THE CIRCUIT AS DICTATED IN THE CONDUIT SCHEDULE.
3. ALL PENETRATIONS TO BE SEALED AND RATED TO MATCH THE ORIGINAL CONSTRUCTION OF THE PENETRATED WALL OR FLOOR.
4. ALL INTERNAL CONTROLS FOR EQUIPMENT PROVIDED BY THE G.C. SHALL BE DONE BY THE G.C.

KEYED NOTES: (#)

1. EXPLOSION PROOF NEMA 7 FUSED DISCONNECT SUPPLIED BY MANUFACTURER. E.C. TO INSTALL. PROVIDE CONDUIT, WIRING AND ELECTRICAL CONNECTIONS BETWEEN EQUIPMENT.
2. NEMA 4X, 120V, 1 PHASE, LOCKABLE OFF 30A, 1HP MAXIMUM MOTOR RATED MANUAL MOTOR STARTER DISCONNECT SWITCH TO POWER AND CONTROL EXHAUST FAN EF-2 AND DAMPERS MOD-1 & MOD-2. SEE MECHANICAL SHEET M-102 AND COORDINATE WITH M.C. FOR EXACT LOCATIONS AND CONNECTIONS OF EQUIPMENT.
3. PROVIDE GROUND BAR. MOUNT GROUND BAR 20" ABOVE A.F.F. SEE B1/E-500 FOR GROUND BAR DETAIL.
4. PUMP STATION CONTROL PANEL, VFD-1, VFD-2, VFD-3 & TRIGAS X5000 GAS MONITORING PANEL FURNISHED AND INSTALLED BY G.C. E.C. SHALL BE RESPONSIBLE FOR ALL WIRING AND INTERCONNECTIONS BETWEEN EQUIPMENT AND DEVICES. G.C. SHALL BE RESPONSIBLE FOR ALL INTERNAL WIRING AND PROGRAMMING OF EQUIPMENT AND DEVICES.

PLAN NORTH

A1 FIRST FLOOR POWER PLAN
SCALE: 3/8" = 1'-0"

0 2' 4' 6'

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FIRST FLOOR POWER PLAN

E-102

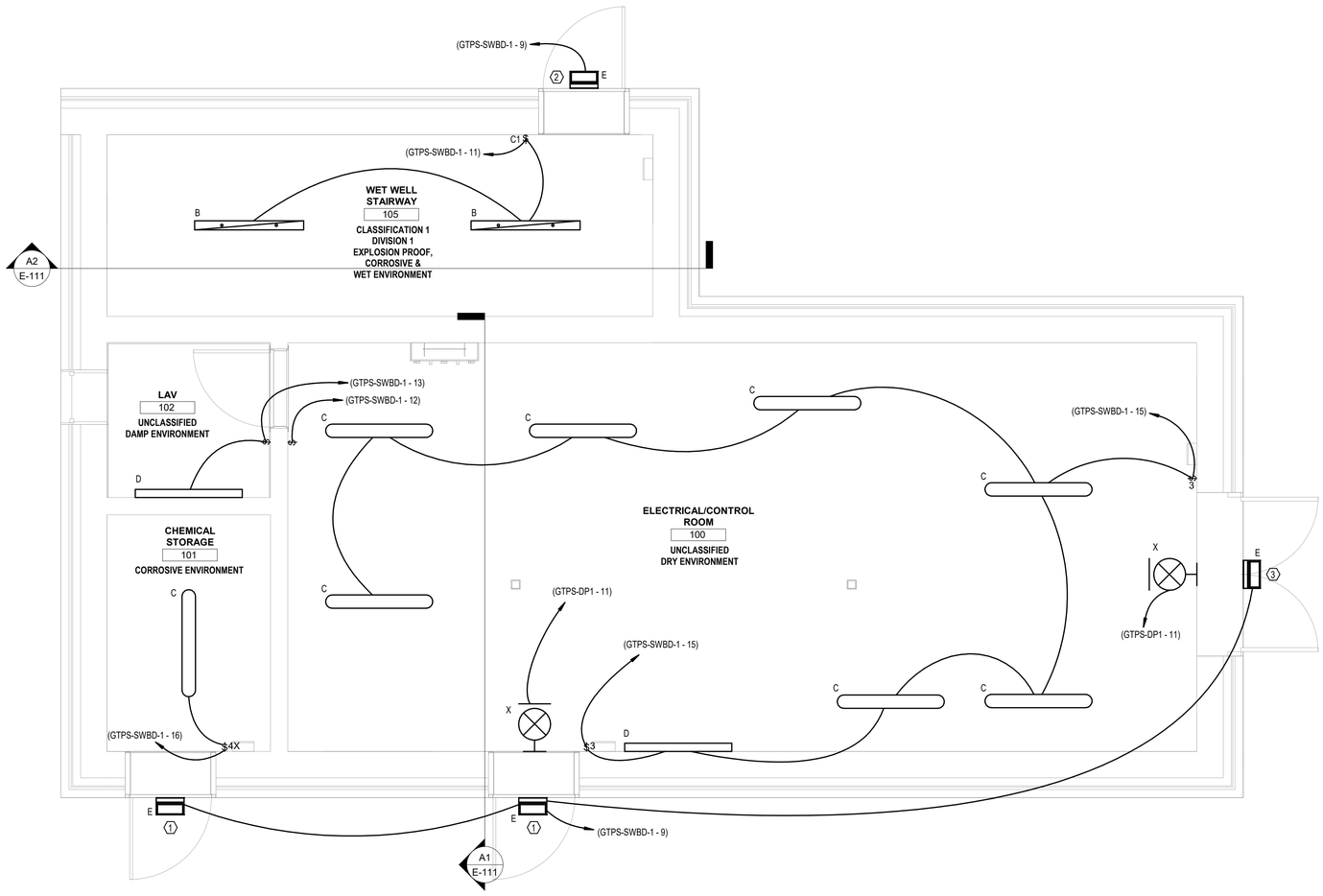
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GENERAL NOTES:

1. ALL LIGHT FIXTURES MOUNTED AT 9' AFF UNLESS OTHERWISE SPECIFIED. SEE B3/E-500 FOR MOUNTING HEIGHT OF EXIT SIGN.
2. ALL PENETRATIONS TO BE SEALED AND RATED TO MATCH THE ORIGINAL CONSTRUCTION OF THE PENETRATED WALL OR FLOOR.

KEYED NOTES: ⟨#⟩

1. TYPE E LIGHT FIXTURE TO BE MOUNTED AT 8'-6" AFF.
2. TYPE E LIGHT FIXTURE TO BE MOUNTED AT 11' AFF.
3. TYPE E LIGHT FIXTURE TO BE MOUNTED AT 16' AFF.



PLAN NORTH

A1 FIRST FLOOR LIGHTING PLAN
SCALE: 3/8" = 1'-0"

0 2' 4' 6'

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FIRST FLOOR LIGHTING PLAN

E-103

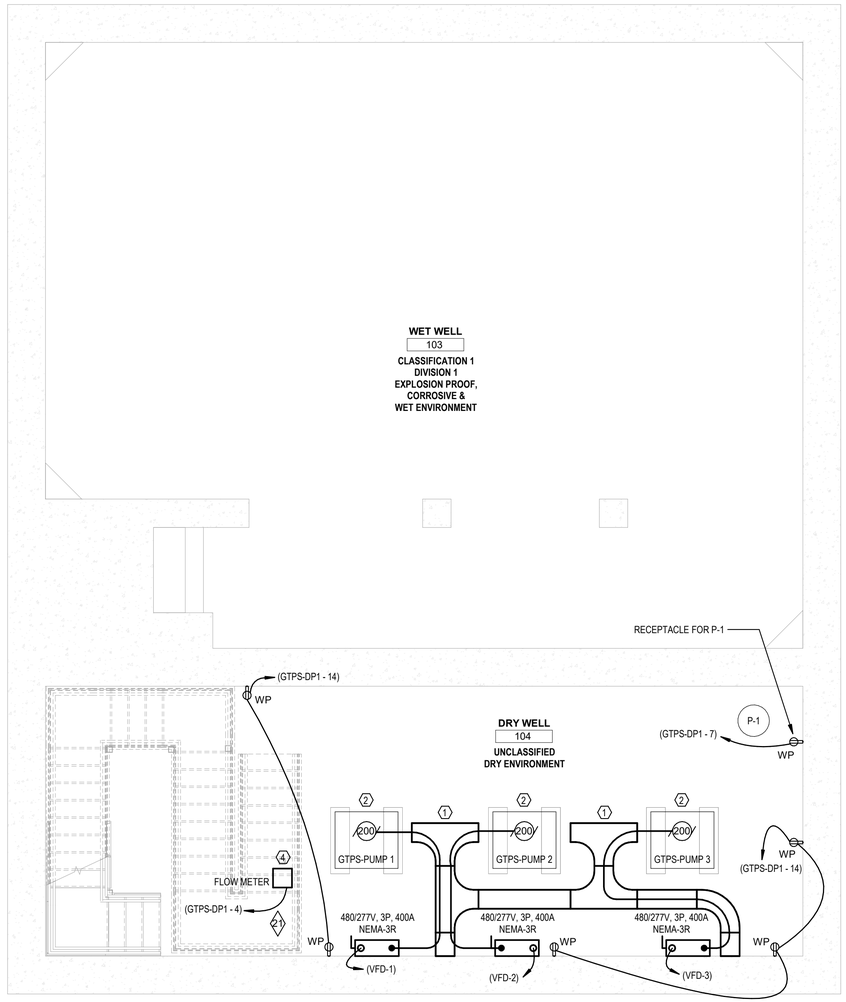
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GENERAL NOTES:

1. COORDINATE WITH M.C. & P.C. FOR EXACT LOCATIONS AND CONNECTIONS OF ALL MECHANICAL AND PLUMBING EQUIPMENT. SEE MECHANICAL DRAWINGS FOR MECHANICAL SCHEDULES AND DETAILS. SEE PLUMBING DRAWINGS FOR PLUMBING SCHEDULES AND DETAILS.
2. ALL PENETRATIONS TO BE SEALED AND RATED TO MATCH THE ORIGINAL CONSTRUCTION OF THE PENETRATED WALL OR FLOOR.

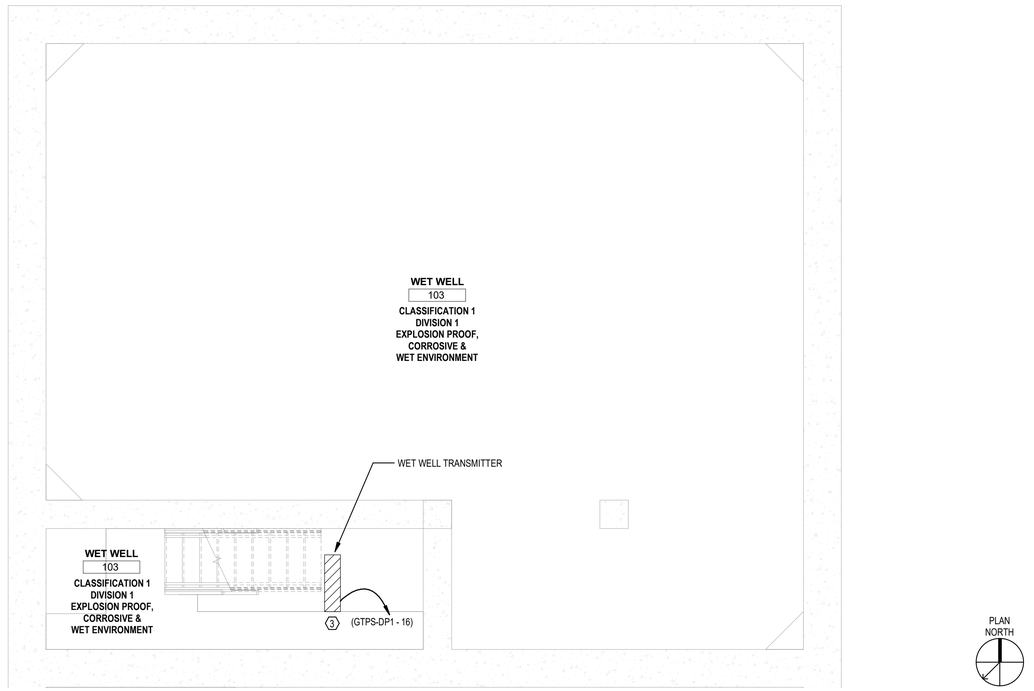
KEYED NOTES: ⟨#⟩

1. 12" WIDTH, 4" HEIGHT HORIZONTAL LADDER TYPE CABLE TRAY TO BE MOUNTED AT 7' AFF TO BOTTOM, SUPPORTED EVERY 10' BY FLOOR BRACKETS, SUPPORTED BY WALL BRACKETS AT WALLS.
2. PUMP PROVIDED BY G.C., CABLES PROVIDED WITH PUMP TO BE ROUTED IN CABLE TRAYS TO WALL MOUNTED DISCONNECT.
3. PROVIDE BRANCH CIRCUIT TO WET LEVEL TRANSMITTER FOR POWER CONNECTION. WET WELL LEVEL TRANSMITTER LOCATED APPROXIMATELY 11 FEET BELOW FIRST FLOOR. SEE SHEETS MP-101, MP-201 AND COORDINATE WITH G.C. FOR EXACT LOCATION AND CONNECTIONS.
4. ROUTE BRANCH CIRCUIT TO MAGNETIC FLOW METER FOR POWER CONNECTION. SEE SHEETS MP-101 & MP-202 FOR PROPOSED FLOW METER LOCATION. COORDINATE WITH G.C. FOR EXACT LOCATION AND CONNECTIONS.



A1 DRY WELL LEVEL POWER PLAN
SCALE: 1/4" = 1'-0"

0 2' 4' 8'



A3 WET WELL LEVEL POWER PLAN
SCALE: 1/4" = 1'-0"

0 2' 4' 6'

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DRY & WET WELL LEVEL POWER PLANS

E-104

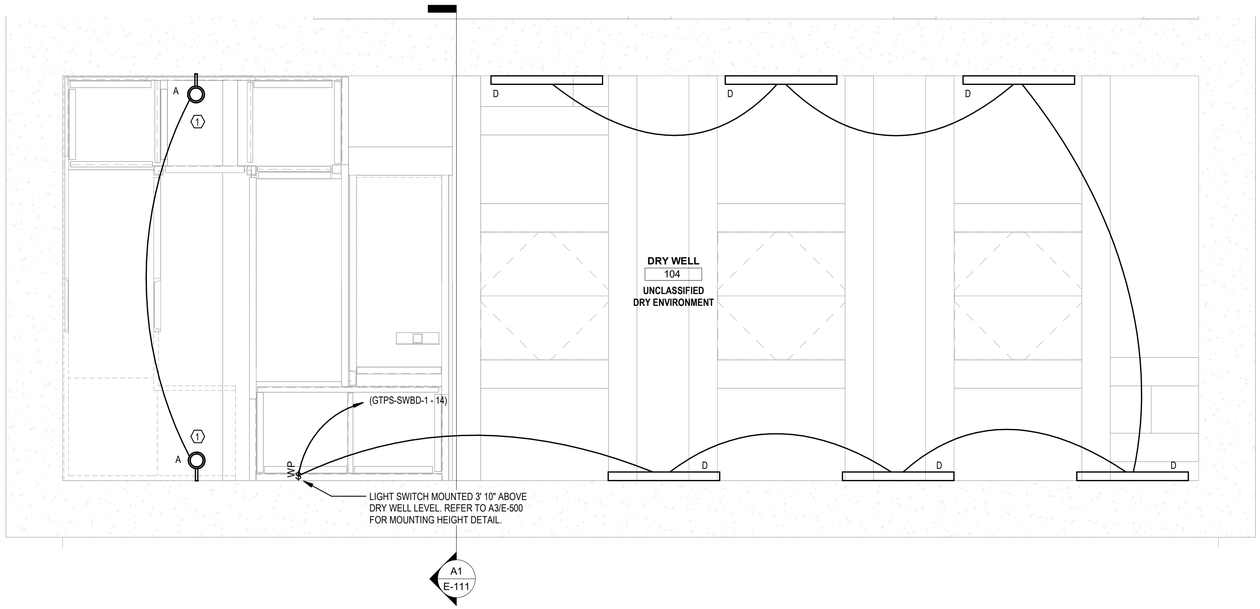
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GENERAL NOTES:

1. ALL TYPE D LIGHT FIXTURES LIGHT FIXTURES SHOWN ON THIS SHEET, TO BE MOUNTED AT 9' AFF.
2. SEE SHEET E-111 DRY WELL STAIRCASE SECTIONS FOR ALL OTHER LIGHT FIXTURE ELEVATIONS AND MOUNTING HEIGHTS.
3. ALL PENETRATIONS TO BE SEALED AND RATED TO MATCH THE ORIGINAL CONSTRUCTION OF THE PENETRATED WALL OR FLOOR.

KEYED NOTES: (#)

1. LIGHTS CIRCUITED AND CONTROLLED BY THE SAME SWITCH FOR LIGHTS LOCATED IN ELECTRICAL/CONTROL ROOM 100, TOP OF THE STAIRCASE, ADJACENT TO LAV 102.



PLAN NORTH

A1 DRY WELL LIGHTING PLAN
SCALE: 3/8" = 1'-0"

0 2' 4' 6'

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WILLIAM E. KIRKPATRICK
085491
LICENSED PROFESSIONAL ENGINEER

REGISTRATION EXPIRES: 10/31/2028

POPLI DESIGN GROUP
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main: 315.463.4540 • fax: 315.463.4573

TRIANGLE AREA CIVIL SITE DEVELOPMENT PUMP STATION
GRIFFISS INTERNATIONAL AIRPORT ONEIDA COUNTY, ROME, NEW YORK

MARK	DATE	DESCRIPTION

REVISIONS

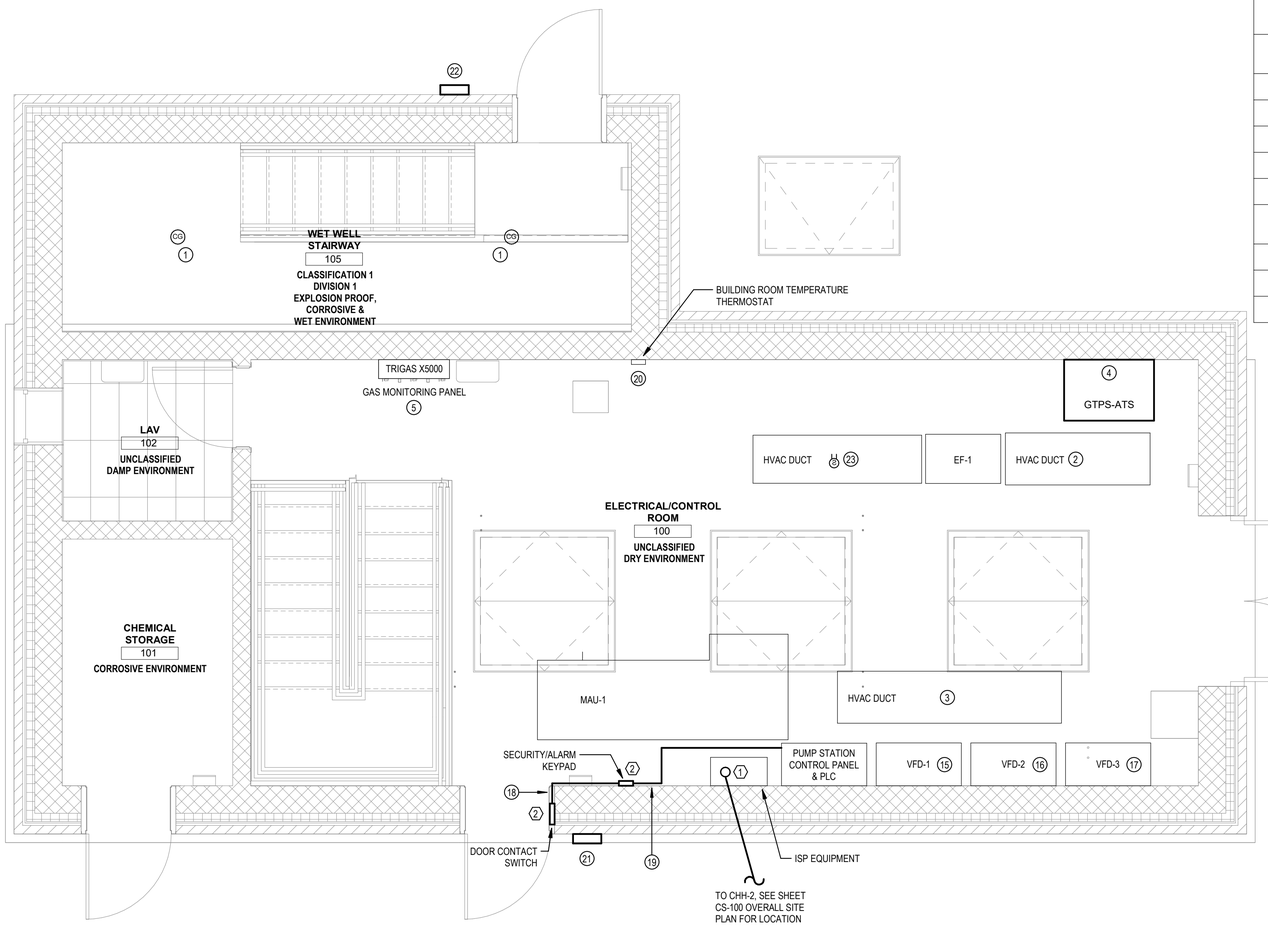
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DRY WELL LIGHTING PLAN

E-105

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CONTROLS CABLING CONDUIT SCHEDULE (#)

CONDUIT NUMBER	CABLE DESCRIPTION	FROM	TO	CONDUIT SIZE (IN.)
1	(2) #18 T.S.P.	PUMP STATION CONTROL PANEL	GAS DETECTOR	1/2" RGS
2	(4) #18 T.S.P.	PUMP STATION CONTROL PANEL	EF-1	1/2" RGS
3	(4) #18 T.S.P.	PUMP STATION CONTROL PANEL	MAU-1	1/2" RGS
4	(6) #14 THHN	PUMP STATION CONTROL PANEL	GTPS-ATS	1/2" RGS
5	(18) #14 THHN	PUMP STATION CONTROL PANEL	TRIGAS X5000 PANEL	3/4" RGS
6	(8) #14 THHN	PUMP STATION CONTROL PANEL	500kW GENERATOR	3/4" RGS & SCH 80 PVC
7	(2) #18 T.S.P.	PUMP STATION CONTROL PANEL	PUMP STATION FLOW TRANSMITTER	1/2" RGS & SCH 80 PVC
8	NOT USED	-	-	-
9	(2) #18 T.S.P.	PUMP STATION CONTROL PANEL	WET WELL LEVEL TRANSMITTER	1/2" RGS
10	(4) #14 THHN	PUMP STATION CONTROL PANEL	WET WELL FLOAT SWITCHES	1/2" RGS
11	(2) #18 T.S.P.	PUMP STATION CONTROL PANEL	PUMP NO.1 DISCHARGE PRESSURE TRANSMITTER	1/2" RGS
12	(2) #18 T.S.P.	PUMP STATION CONTROL PANEL	PUMP NO.2 DISCHARGE PRESSURE TRANSMITTER	1/2" RGS
13	(2) #18 T.S.P.	PUMP STATION CONTROL PANEL	PUMP NO.3 DISCHARGE PRESSURE TRANSMITTER	1/2" RGS
14	(2) #14 THHN	PUMP STATION CONTROL PANEL	SUMP PUMP HIGH LEVEL SWITCH	1/2" RGS
15	(8) #14 THHN & (4) #18 T.S.P.	PUMP STATION CONTROL PANEL	VFD-1	3/4" RGS
16	(8) #14 THHN & (4) #18 T.S.P.	PUMP STATION CONTROL PANEL	VFD-2	3/4" RGS
17	(8) #14 THHN & (4) #18 T.S.P.	PUMP STATION CONTROL PANEL	VFD-3	3/4" RGS
18	ESTIMATED (2) #14 THHN	DOOR CONTACT SWITCH	SECURITY ALARM KEYPAD	1/2" RGS
19	ESTIMATED (2) #14 THHN	SECURITY ALARM KEYPAD	PUMP STATION CONTROL PANEL	1/2" RGS
20	(1) #18 T.S.P.	PUMP STATION CONTROL PANEL	BUILDING ROOM TEMPERATURE THERMOSTAT	1/2" RGS
21	(6) #14 THHN	PUMP STATION CONTROL PANEL	GO/NO-GO LIGHT & HORN #1	1/2" RGS
22	(6) #14 THHN	PUMP STATION CONTROL PANEL	GO/NO-GO LIGHT & HORN #2	1/2" RGS
23	(3) #14 THHN	PUMP STATION CONTROL PANEL	DUCT SMOKE DETECTOR	1/2" RGS

GENERAL NOTES:

1. COORDINATE WITH M.C. & P.C. FOR EXACT LOCATIONS AND CONNECTIONS OF ALL MECHANICAL AND PLUMBING EQUIPMENT. SEE MECHANICAL DRAWINGS FOR MECHANICAL SCHEDULES AND DETAILS. SEE PLUMBING DRAWINGS FOR PLUMBING SCHEDULES AND DETAILS.
2. ALL PENETRATIONS TO BE SEALED AND RATED TO MATCH THE ORIGINAL CONSTRUCTION OF THE PENETRATED WALL OR FLOOR.

KEYED NOTES: (#)

1. E.C. TO PROVIDE (2) 4" CONDUITS FOR FIBER/INTERNET CABLING FROM COMMUNICATION HANDHOLE-2 (CHH-2) TO ISP EQUIPMENT LOCATED IN ELECTRICAL/CONTROL ROOM 100, STUB UP INTO ISP EQUIPMENT. ISP TO PROVIDE ISP EQUIPMENT AND FIBER/INTERNET CABLE, ROUTING FROM CHH-2 TO ISP EQUIPMENT. E.C. TO PROVIDE CONNECTIONS BETWEEN ISP EQUIPMENT AND PUMP STATION CONTROL PANEL & PLC, COORDINATE WITH ISP FOR EXACT LOCATION/S OF ISP EQUIPMENT FOR CONNECTIONS. REFER TO A1/E-500 FOR CONDUIT ROUTING.
2. PROVIDE KEYPAD TO DEACTIVATE ALARM UPON ENTRY. PROVIDE DOOR ENTRY CONTACT SWITCH TO SIGNAL ALARM IF KEYPAD CODE IS NOT INPUT AFTER A CERTAIN AMOUNT OF TIME. ALL COMMUNICATION AND CONTROL CABLES TO BE ROUTED TO THE PUMP STATION CONTROL PANEL. COORDINATE WITH OWNER FOR KEYPAD TYPE, LOCATION AND TIMER. COORDINATE WITH CONTROLS CONTRACTOR FOR TERMINATIONS OF COMMUNICATION AND CONTROLS WIRING.

CONTROLS CABLING CONDUIT SCHEDULE NOTES: (#)

1. GAS DETECTOR SUPPLIED BY G.C.
   E.C. TO MOUNT DETECTOR ON CEILING/ROOF DECK AND ROUTE ALL ASSOCIATED WIRING BACK TO THE PUMP STATION CONTROL PANEL FOR CONTROLS/MONITORING CONNECTION. EXACT LOCATIONS AND MOUNTING TO BE COORDINATED WITH G.C. REFER TO SCHEDULE ON THIS SHEET.
2. PROVIDE CONDUCTORS FROM PUMP STATION CONTROL PANEL TO DIFFERENTIAL PRESSURE SWITCH AND 24VDC CONTROL CONTACT OF EF-1 FOR CONTROLS CONNECTION. COORDINATE WITH M.C. & G.C. FOR EXACT LOCATIONS AND CONNECTIONS. SEE A1/M-502 FOR DRY WELL AIRFLOW DIAGRAM. REFER TO SCHEDULE ON THIS SHEET.
3. PROVIDE CONDUCTORS FROM PUMP STATION CONTROL PANEL TO DIFFERENTIAL PRESSURE SWITCH AND 24VDC CONTROL CONTACT OF MAU-1 FOR CONTROLS CONNECTION. COORDINATE WITH M.C. & G.C. FOR EXACT LOCATIONS AND CONNECTIONS. SEE A1/M-502 FOR DRY WELL AIRFLOW DIAGRAM. REFER TO SCHEDULE ON THIS SHEET.
4. PROVIDE CONDUCTORS FROM PUMP STATION CONTROL PANEL TO GTPS-ATS. COORDINATE WITH G.C. FOR EXACT LOCATIONS AND CONNECTIONS. REFER TO SCHEDULE ON THIS SHEET.
5. PROVIDE CONDUCTORS FROM PUMP STATION CONTROL PANEL TO TRIGAS X5000 GAS MONITORING PANEL. COORDINATE WITH G.C. FOR EXACT LOCATIONS AND CONNECTIONS. REFER TO SCHEDULE ON THIS SHEET.
6. PROVIDE CONDUCTORS FROM PUMP STATION CONTROL PANEL TO THE 550kW GENERATOR, FUEL TANK LOW LEVEL SENSOR & FUEL TANK LEAK DETECTOR. COORDINATE WITH G.C. AND GENERATOR MANUFACTURER FOR EXACT LOCATIONS AND CONNECTIONS. SEE SHEET E-101 FOR ROUTING. REFER TO SCHEDULE ON THIS SHEET.
15. PROVIDE CONTROLS CIRCUIT TO VFD-1 FOR CONTROLS CONNECTION. COORDINATE WITH G.C. FOR EXACT LOCATION AND CONNECTIONS. REFER TO SCHEDULE ON THIS SHEET.
16. PROVIDE CONTROLS CIRCUIT TO VFD-2 FOR CONTROLS CONNECTION. COORDINATE WITH G.C. FOR EXACT LOCATION AND CONNECTIONS. REFER TO SCHEDULE ON THIS SHEET.
17. PROVIDE CONTROLS CIRCUIT TO VFD-3 FOR CONTROLS CONNECTION. COORDINATE WITH G.C. FOR EXACT LOCATION AND CONNECTIONS. REFER TO SCHEDULE ON THIS SHEET.
18. PROVIDE CONTROLS CIRCUIT BETWEEN DOOR CONTACT SWITCH AND SECURITY ALARM KEYPAD FOR CONTROLS CONNECTION. COORDINATE WITH G.C. FOR EXACT QUANTITY OF CONDUCTORS, TYPES OF CONDUCTORS AND CONNECTIONS BASED ON KEYPAD TYPE. REFER TO SCHEDULE ON THIS SHEET.
19. PROVIDE CONTROLS CIRCUIT BETWEEN SECURITY ALARM KEYPAD AND PUMP STATION CONTROL PANEL FOR CONTROLS CONNECTION. COORDINATE WITH G.C. FOR EXACT QUANTITY OF CONDUCTORS, TYPES OF CONDUCTORS AND CONNECTIONS BASED ON KEYPAD TYPE. REFER TO SCHEDULE ON THIS SHEET.
20. PROVIDE CONTROLS CIRCUIT TO BUILDING ROOM TEMPERATURE THERMOSTAT FOR CONTROLS CONNECTION. COORDINATE WITH G.C. FOR EXACT LOCATION AND CONNECTIONS. REFER TO SCHEDULE ON THIS SHEET.
21. PROVIDE CONTROLS CIRCUIT TO VENT SYSTEM GAS DETECTION STACK LIGHTS AND HORN FOR CONTROLS CONNECTION. COORDINATE WITH G.C. FOR EXACT LOCATION AND CONNECTIONS. REFER TO SCHEDULE ON THIS SHEET.
22. PROVIDE CONTROLS CIRCUIT TO VENT SYSTEM GAS DETECTION STACK LIGHTS AND HORN FOR CONTROLS CONNECTION. COORDINATE WITH G.C. FOR EXACT LOCATION AND CONNECTIONS. REFER TO SCHEDULE ON THIS SHEET.
23. PROVIDE CIRCUIT FOR POWER AND COMMUNICATIONS TO DUCT SMOKE DETECTOR. COORDINATE WITH M.C. FOR EXACT LOCATION AND G.C. FOR CONNECTIONS TO PUMP STATION CONTROL PANEL. E.C. SHALL ALSO PROVIDE WIRING TO INITIATE MAU-1 & EF-1 SHUTDOWN UPON DETECTION OF SMOKE PER THE VENTILATION SEQUENCE OF OPERATIONS AS SEEN ON THE MECHANICAL DRAWINGS. COORDINATE WITH M.C. FOR CONNECTIONS. REFER TO SCHEDULE ON THIS SHEET

PLAN NORTH

A1 FIRST FLOOR INSTRUMENTATION LPAN
SCALE: 3/8" = 1'-0"

0 2' 4' 8'

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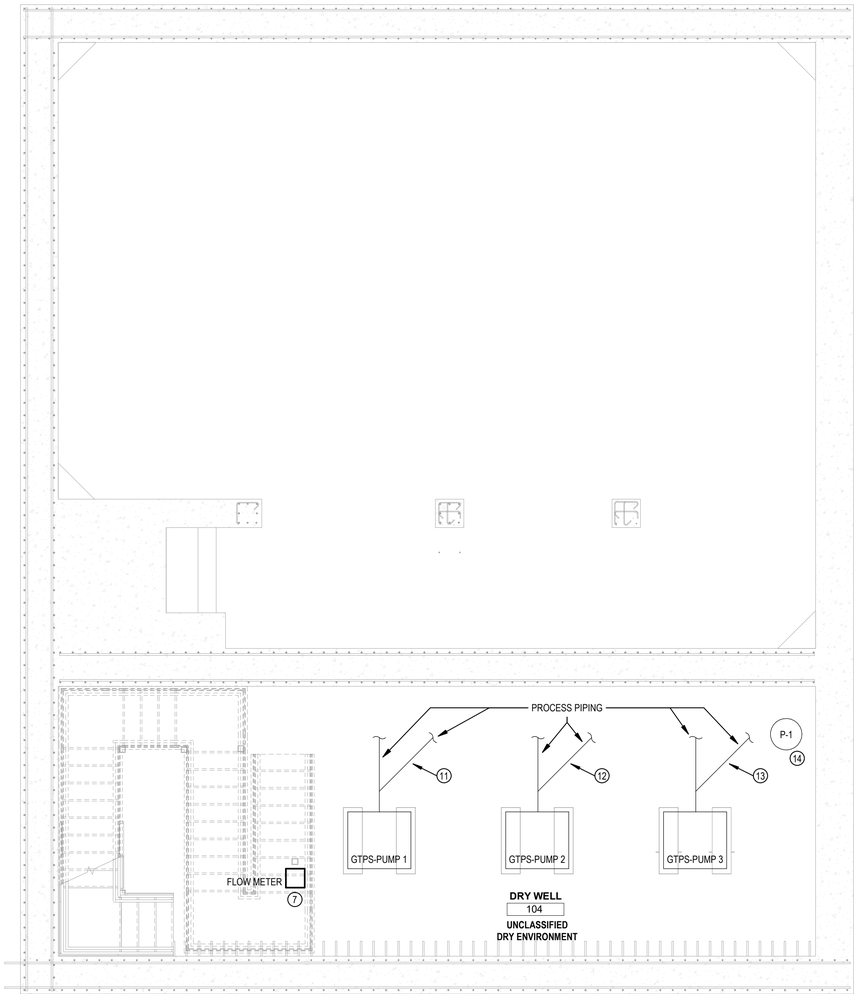
FIRST FLOOR INSTRUMENTATION PLAN

E-106

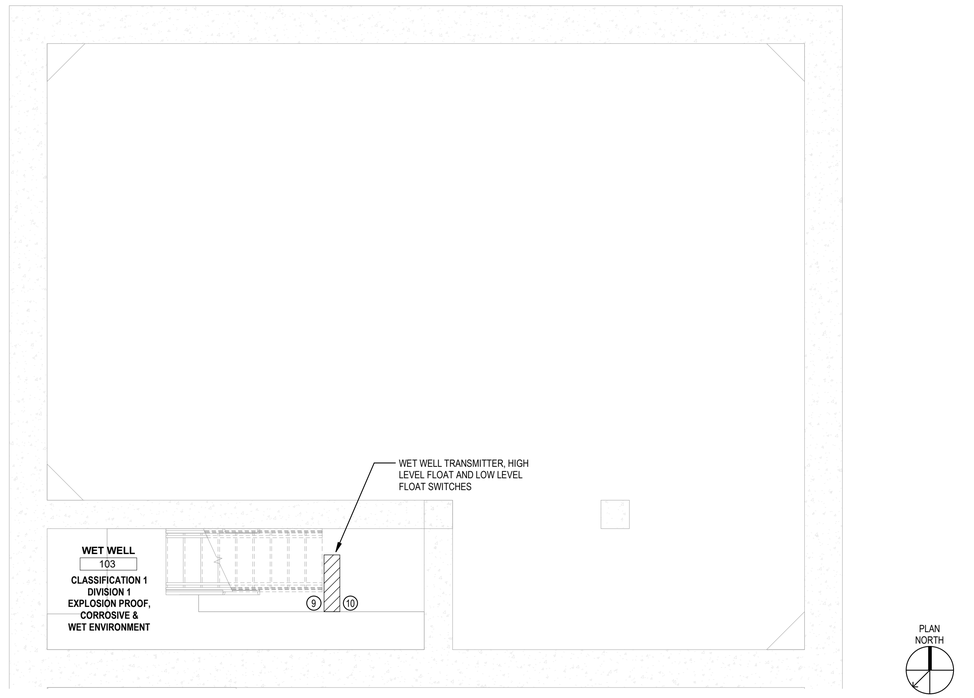
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CONTROLS CONDUIT SCHEDULE NOTES (CONT.): (#)

7. PROVIDE CONTROL CIRCUIT TO FLOW METER FOR CONTROLS CONNECTION. SEE SHEET CS-101 FOR PROPOSED FLOW METER AND BYPASS CONNECTION LOCATION. COORDINATE WITH G.C. FOR EXACT LOCATION AND CONNECTIONS. REFER TO SCHEDULE ON SHEET E-106.
8. NOT USED.
9. PROVIDE CONTROLS CIRCUIT TO WET WELL LEVEL TRANSMITTER FOR CONNECTION. SEE SHEETS MP-101, MP-201 AND COORDINATE WITH G.C. FOR EXACT LOCATION AND CONNECTIONS. REFER TO SCHEDULE ON SHEET E-106.
10. PROVIDE CONTROLS CIRCUIT TO WET WELL HIGH LEVEL FLOAT AND LOW LEVEL FLOAT SWITCHES FOR CONNECTION. SEE SHEETS MP-101, MP-201 AND COORDINATE WITH G.C. FOR EXACT LOCATIONS AND CONNECTIONS. REFER TO SCHEDULE ON SHEET E-106.
11. APPROXIMATE LOCATION OF DISCHARGE PRESSURE TRANSMITTER. PROVIDE CONTROLS CIRCUIT FROM PUMP STATION CONTROL PANEL TO DISCHARGE PRESSURE TRANSMITTER. COORDINATE WITH G.C. FOR EXACT LOCATION AND CONNECTIONS. REFER TO SCHEDULE ON SHEET E-106.
12. APPROXIMATE LOCATION OF DISCHARGE PRESSURE TRANSMITTER. PROVIDE CONTROLS CIRCUIT FROM PUMP STATION CONTROL PANEL TO DISCHARGE PRESSURE TRANSMITTER. COORDINATE WITH G.C. FOR EXACT LOCATION AND CONNECTIONS. REFER TO SCHEDULE ON SHEET E-106.
13. APPROXIMATE LOCATION OF DISCHARGE PRESSURE TRANSMITTER. PROVIDE CONTROLS CIRCUIT FROM PUMP STATION CONTROL PANEL TO DISCHARGE PRESSURE TRANSMITTER. COORDINATE WITH G.C. FOR EXACT LOCATION AND CONNECTIONS. REFER TO SCHEDULE ON SHEET E-106.
14. PROVIDE CONTROLS CIRCUIT TO SUMP PUMP P-1 HIGH LEVEL SWITCH. COORDINATE WITH P.C. FOR EXACT LOCATION OF SUMP PUMP P-1 AND G.C. FOR CONNECTIONS. REFER TO SCHEDULE ON SHEET E-106.



A1 DRY WELL INSTRUMENTATION PLAN
SCALE: 1/4" = 1'-0"



A3 WET WELL INSTRUMENTATION PLAN
SCALE: 1/4" = 1'-0"

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DRY & WET WELL INSTRUMENTATION PLANS

E-107

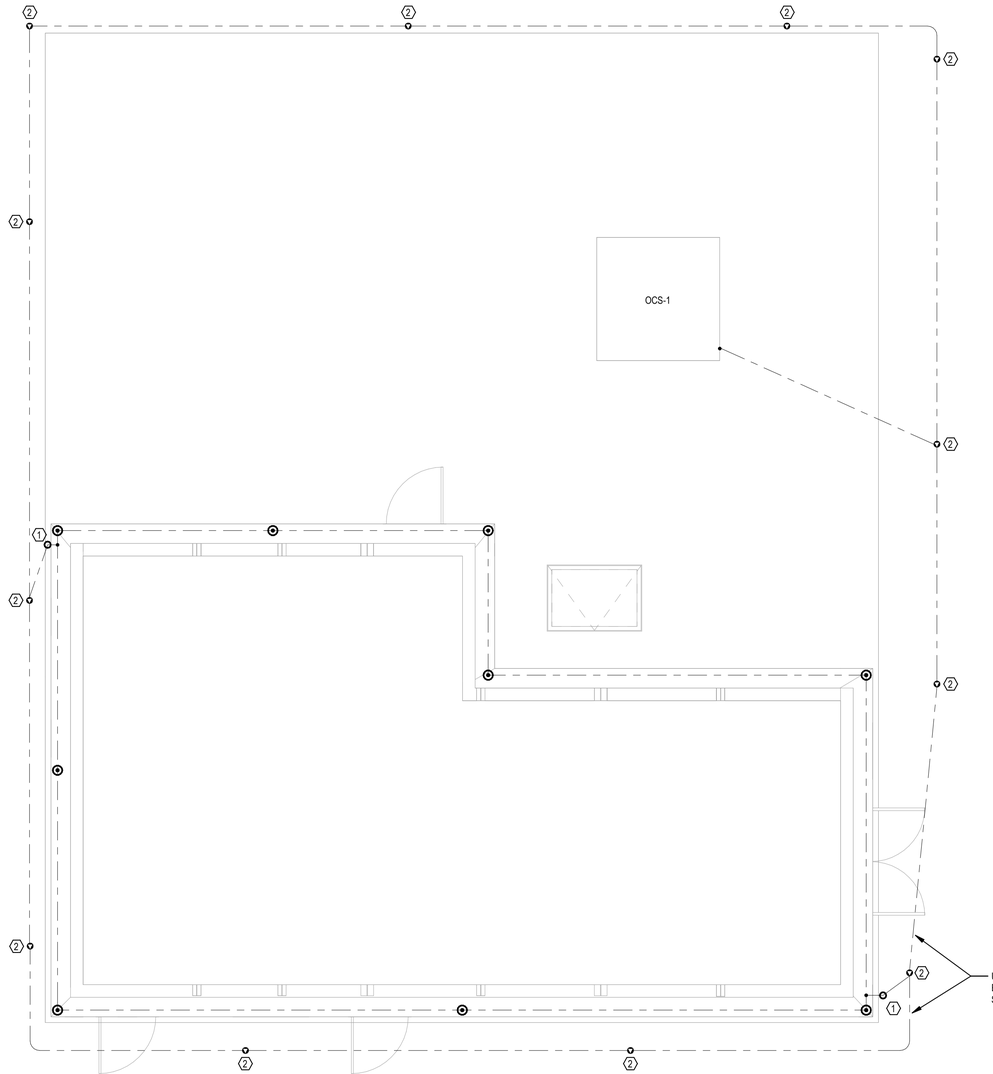
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GENERAL NOTES:

1. SEE SHEET E-502 FOR LIGHTNING PROTECTION DETAILS.

KEYED NOTES: (#)

1. LIGHTNING PROTECTION DOWN CONDUCTORS SHALL BE ROUTED IN 1" PVC CONDUIT UNTIL GRADE. CONDUIT SHALL BE PAINTED TO MATCH EXTERIOR OF THE BUILDING.
2. PROVIDE GROUND ROD AS PART OF BUILDING GROUND RING. ADD ADDITIONAL RODS AS REQUIRED TO ACHIEVE A MAXIMUM OF 5 OHM GROUND RESISTANCE. SEE SHEET E601 FOR ELECTRICAL GROUNDING DETAILS AND RISER DIAGRAM.



PLAN NORTH

A1 ROOF LIGHTNING PROTECTION PLAN
SCALE: 1/4" = 1'-0"

0 2' 4' 8'

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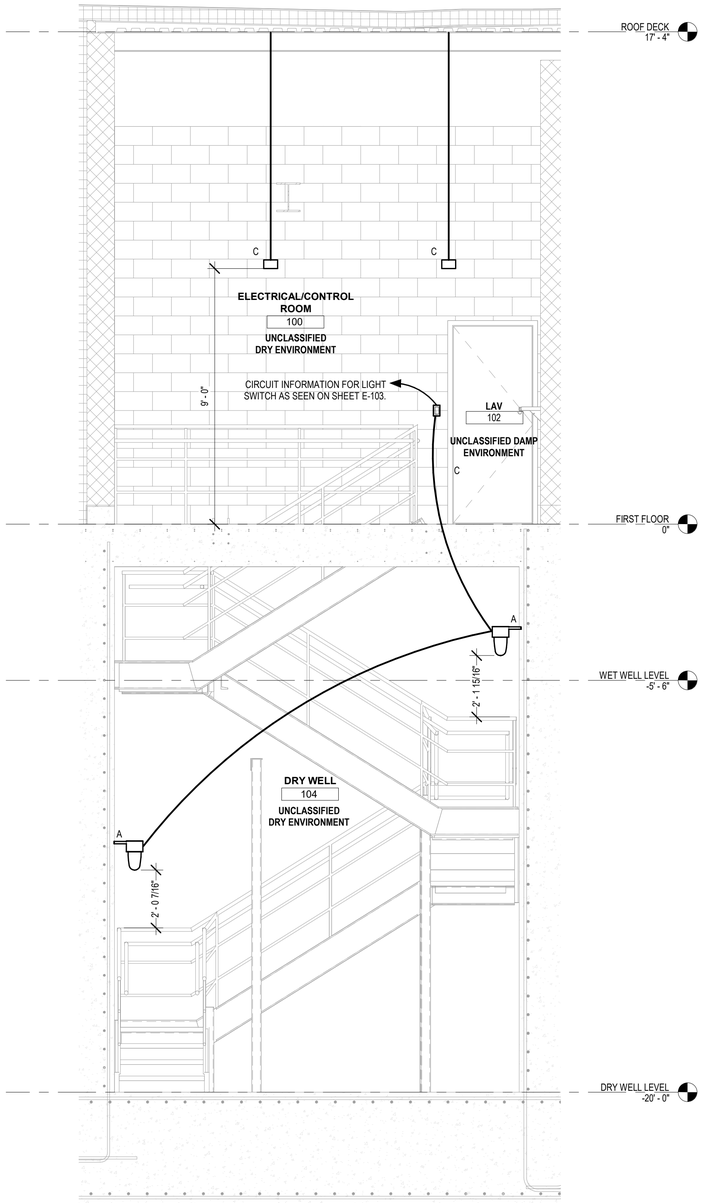
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LIGHTNING PROTECTION PLAN

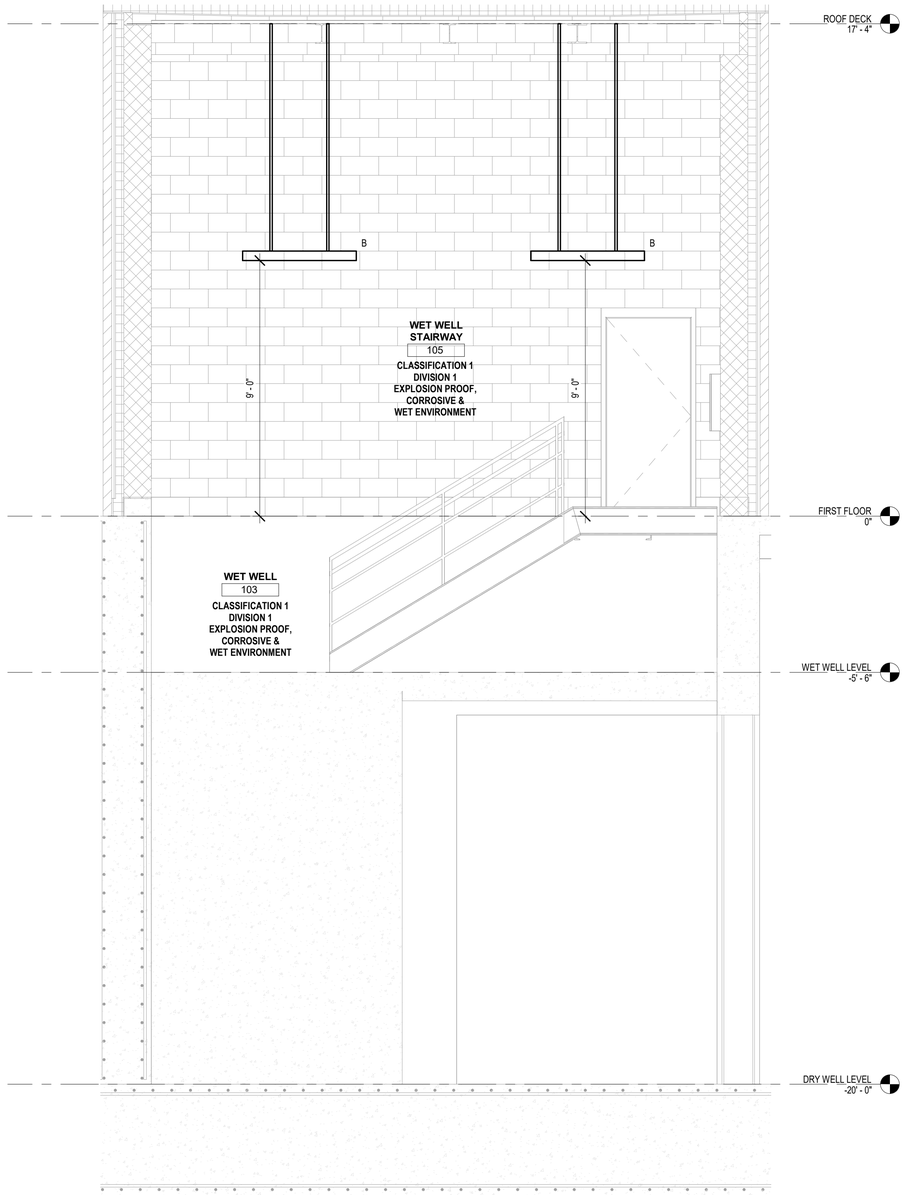
E-108

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A1 ELECTRICAL CONTROL ROOM AND DRY WELL STAIRCASE SECTION
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0 2' 4' 6'



A2 WET WELL SECTION
SCALE: 3/8" = 1'-0"

0 2' 4' 6'

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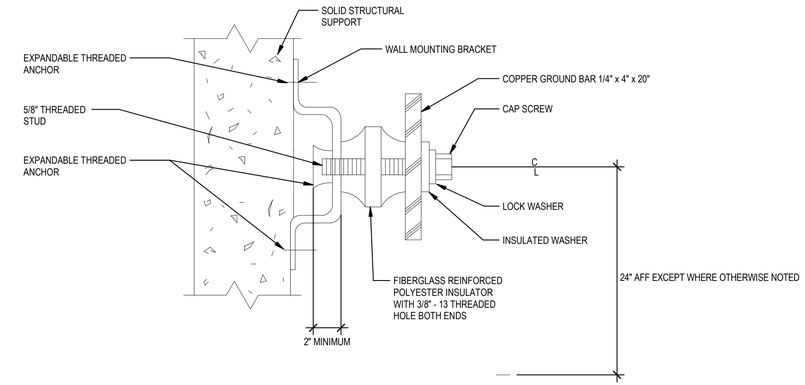
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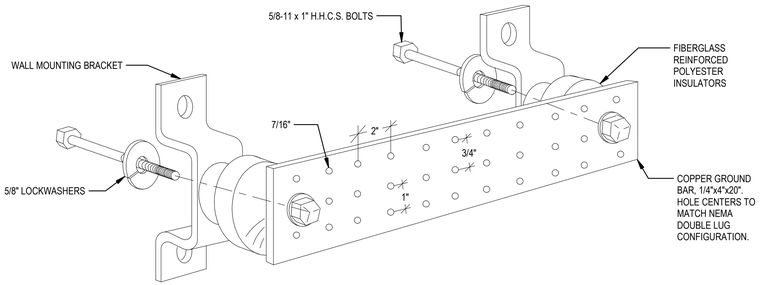
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CONTROL ROOM, DRY & WET WELL STAIRCASE SECTIONS

E-111

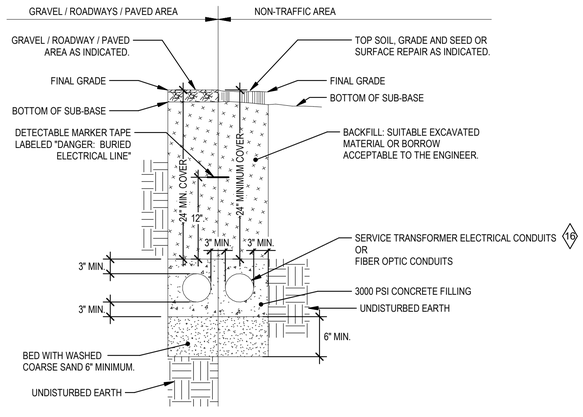
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B1 GROUND BAR DETAIL

SCALE: NTS

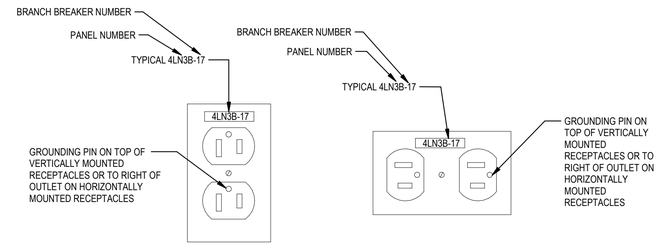


GENERAL NOTES:

1. ALL MATERIAL SHALL BE COMPACTED IN MAXIMUM 6" LIFTS.
2. THIS TRENCH DETAIL SHALL INCLUDE THE REQUIREMENTS COMMON TO MORE THAN ONE SECTION OF THE SPECIFICATIONS.
3. TYPICAL SPACING AND DIMENSIONS ARE SHOWN. PROVIDE ALL CONDUITS AS SHOWN ON DRAWINGS.
4. SEE SHEET E-101 PUMP STATION ELECTRICAL SITE PLAN FOR QUANTITY AND ROUTING OF UNDERGROUND CONDUITS.
5. ALL UNDERGROUND CONDUITS SHALL BE SCHEDULE 80 PVC.

A1 CONDUIT TRENCH DETAIL CONCRETE ENCASED (TYPICAL)

SCALE: NTS



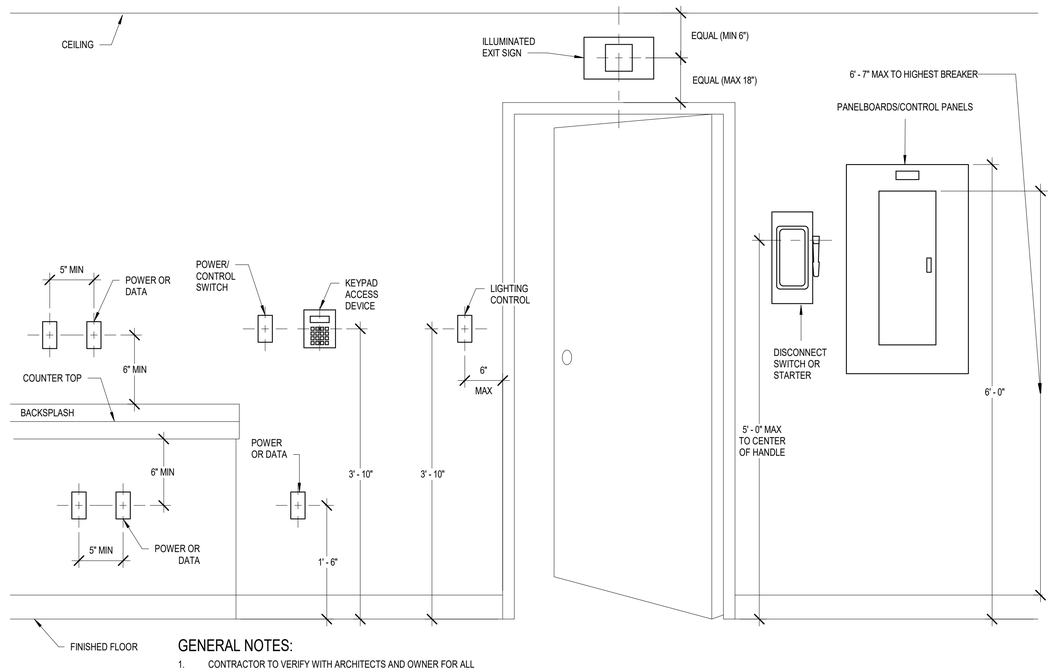
GENERAL NOTES:

A. PROVIDE GREEN GROUND WIRE IN ALL RECEPTACLE CIRCUITS.

B. DO NOT INSTALL RECEPTACLES, COMPUTER OR TELEPHONE OUTLETS BACK TO BACK IN WALL CAVITY. INSTALL IN ADJACENT STUD CAVITIES, TO REDUCE SOUND TRANSMISSION.

B3 RECEPTACLE INSTALLATION DETAIL (TYPICAL)

SCALE: NTS



GENERAL NOTES:

1. CONTRACTOR TO VERIFY WITH ARCHITECTS AND OWNER FOR ALL FINAL MOUNTING HEIGHTS OF DEVICES AND EQUIPMENT.

A3 DEVICE ELEVATION DETAIL

SCALE: NOT TO SCALE

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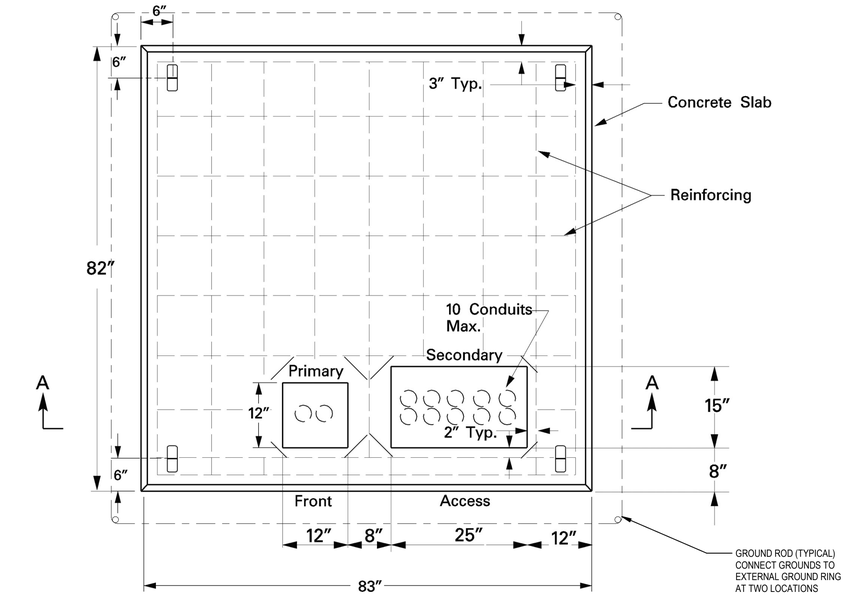
DETAILS

E-500

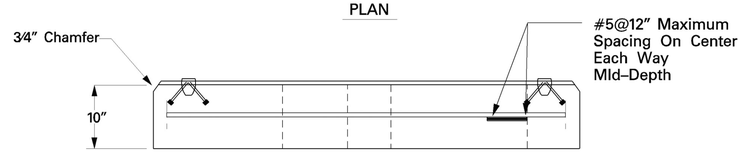
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GENERAL NOTES:

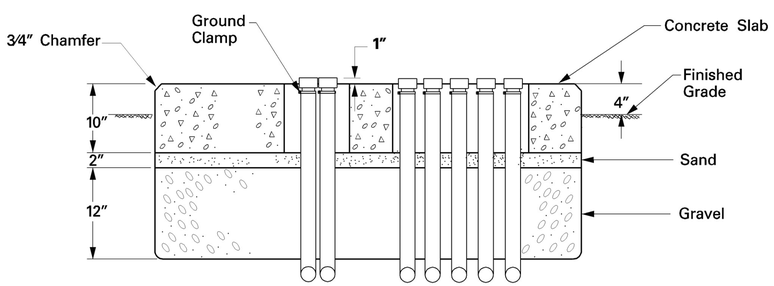
1. E.C. TO PROVIDE CONDUITS BACK TO WITHIN 5 FEET OF THE UTILITY'S NETWORK CONNECTION POINT, JUST WITHIN THE PROPERTY LINE. SEE SHEET CS-100 OVERALL SITE PLAN AND SHEET CS-101 PUMP STATION SITE PLAN FOR CONDUIT ROUTING BETWEEN THE UTILITY TRANSFORMER (PUMP STATION XFMR) AND POINT OF CONNECTION TO UTILITY. COORDINATE WITH UTILITY FOR EXACT ROUTING AND LOCATION OF NETWORK CONNECTION POINT. SEE A1/E-500 FOR CONDUIT TRENCH DETAIL.
2. PAD-MOUNTED TRANSFORMER, ELECTRICAL METER, METER ENCLOSURE AND CT CABINET PROVIDED BY ELECTRICAL UTILITY. COORDINATE WITH UTILITY FOR EXACT LOCATION OF TRANSFORMER AND CONNECTION TO SECONDARY CABLE TERMINATION POINTS AND LOCATIONS. EQUIPMENT PAD PROVIDED BY E.C. COORDINATED WITH G.C. FOR LOCATION.



PLAN



REBAR DIAGRAM

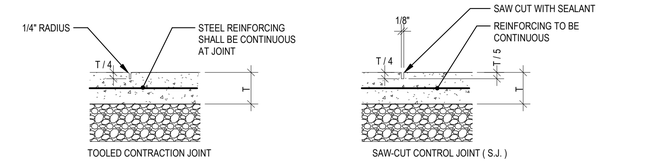


SECTION A–A

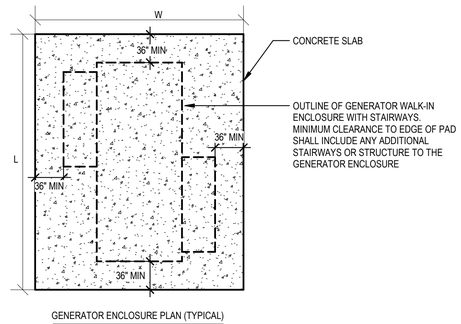
A1 TRANSFORMER UTILITY PAD VAULT DETAIL
SCALE: NTS

GENERAL NOTES:

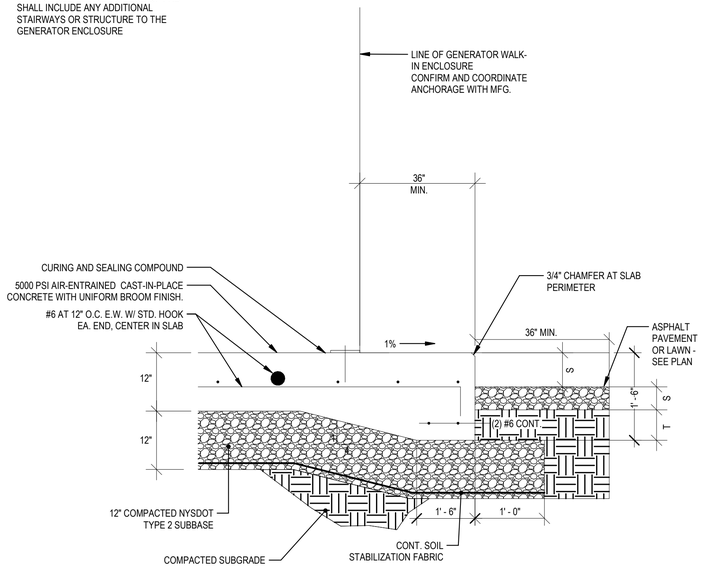
1. GENERATOR ENCLOSURE PAD DIMENSIONS MAY VARY, COORDINATE THE FINAL DIMENSIONS WITH THE GENERATOR ENCLOSURE TO BE PROVIDED.
2. CONFIRM AND COORDINATE ANCHORAGE, DIMENSIONS, OPENINGS, CLEARANCE, AND REQUIRED ACCESS SPACE WITH APPROVED GENERATOR MANUFACTURER PRIOR TO PREPARATION OF SHOP DRAWINGS.
3. PREPARE AND SUBMIT DETAILED SHOP DRAWINGS FOR THE CONCRETE PAD (BASED ON THE ACTUAL GENERATOR ENCLOSURE FOOTPRINT), INCLUDING REINFORCEMENT AND CONTROL JOINTS.



GENERATOR ENCLOSURE PAD CONCRETE JOINTS (TYPICAL)



GENERATOR ENCLOSURE PLAN (TYPICAL)



GENERATOR ENCLOSURE PAD DETAIL (TYPICAL)

A3 GENERATOR ENCLOSURE PAD DETAIL
SCALE: NTS

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REGISTRATION EXPIRES: 10/31/2028

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TRIANGLE AREA CIVIL SITE DEVELOPMENT PUMP STATION GRIFFISS INTERNATIONAL AIRPORT ONEIDA COUNTY, ROME, NEW YORK

MARK	DATE	DESCRIPTION

REVISIONS

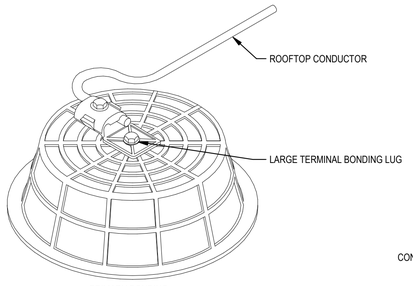
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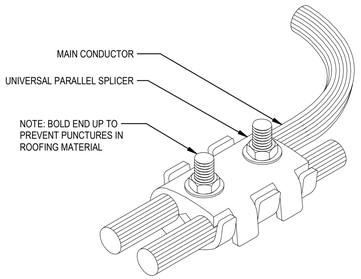
DETAILS

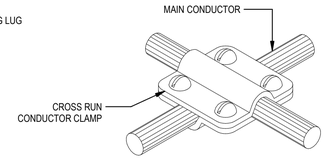
E-501

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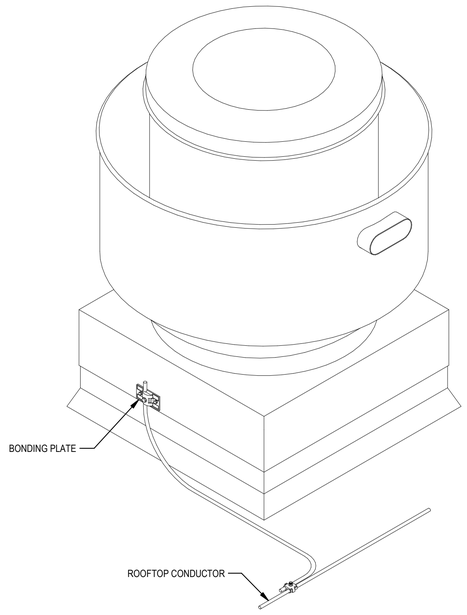


LIGHTING PROTECTION DRAIN BONDING DETAIL

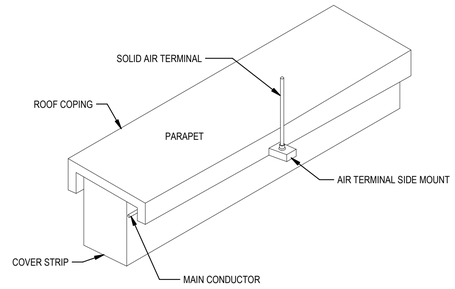




LIGHTNING PROTECTION CONDUCTOR CROSSING CONNECTIONS DETAIL



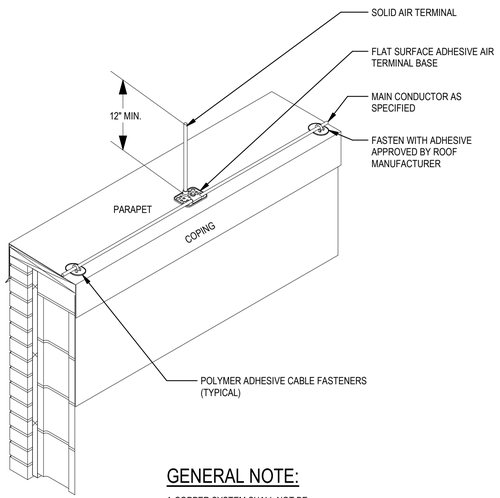
LIGHTING PROTECTION FAN/MECHANICAL EQUIPMENT ASSEMBLY BONDING DETAIL (TYPICAL)



GENERAL NOTE:

A COPPER SYSTEM SHALL NOT BE FASTENED TO AN ALUMINUM OR GALVANIZED COPING OR FLASHING.

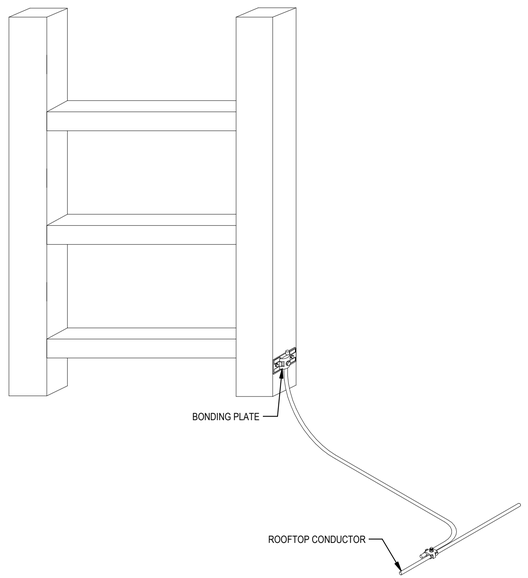
LIGHTNING PROTECTION SYSTEM PARAPET DETAIL



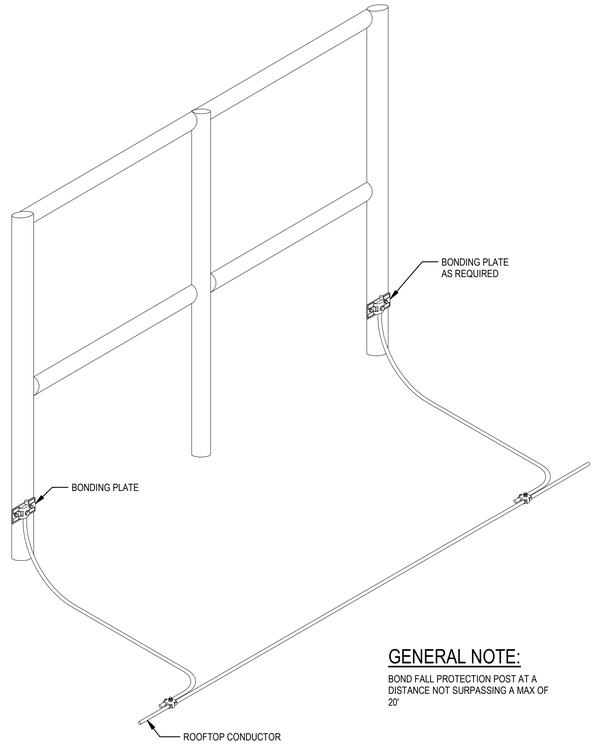
GENERAL NOTE:

A COPPER SYSTEM SHALL NOT BE FASTENED TO AN ALUMINUM OR GALVANIZED COPING OR FLASHING.

LIGHTING PROTECTION AIR TERMINAL INSTALLATION DETAIL



LIGHTING PROTECTION STEEL LADDER BONDING DETAIL (TYPICAL)



GENERAL NOTE:

BOND FALL PROTECTION POST AT A DISTANCE NOT SURPASSING A MAX OF 20'

LIGHTING PROTECTION FALL PROTECTION BONDING DETAIL (TYPICAL)

A1 LIGHTING PROTECTION DETAILS
SCALE: NTS

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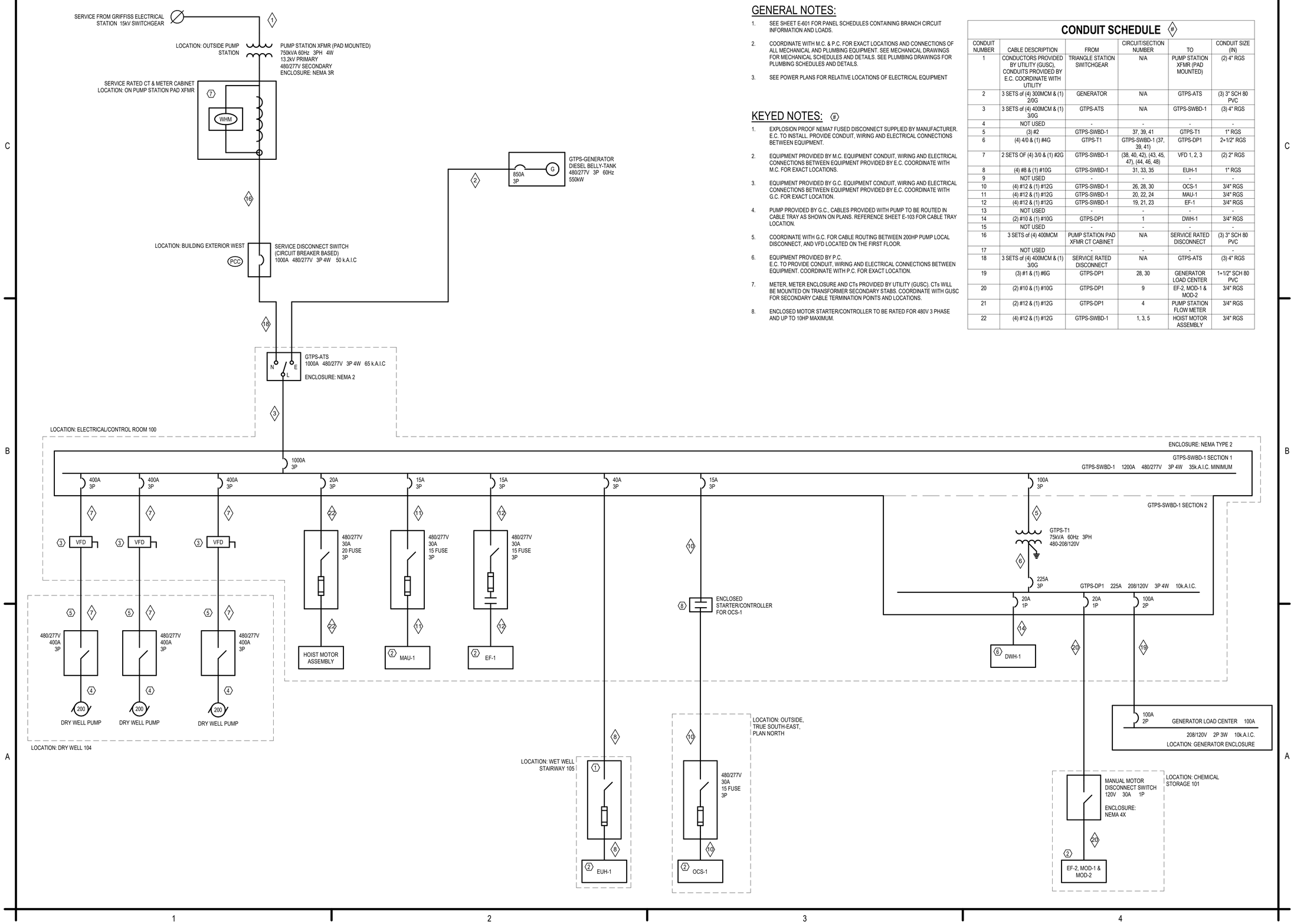
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DETAILS

E-502

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GENERAL NOTES:

1. SEE SHEET E-601 FOR PANEL SCHEDULES CONTAINING BRANCH CIRCUIT INFORMATION AND LOADS.
2. COORDINATE WITH M.C. & P.C. FOR EXACT LOCATIONS AND CONNECTIONS OF ALL MECHANICAL AND PLUMBING EQUIPMENT. SEE MECHANICAL DRAWINGS FOR MECHANICAL SCHEDULES AND DETAILS. SEE PLUMBING DRAWINGS FOR PLUMBING SCHEDULES AND DETAILS.
3. SEE POWER PLANS FOR RELATIVE LOCATIONS OF ELECTRICAL EQUIPMENT

KEYED NOTES: (#)

1. EXPLOSION PROOF NEMA7 FUSED DISCONNECT SUPPLIED BY MANUFACTURER. E.C. TO INSTALL. PROVIDE CONDUIT, WIRING AND ELECTRICAL CONNECTIONS BETWEEN EQUIPMENT.
2. EQUIPMENT PROVIDED BY M.C. EQUIPMENT CONDUIT, WIRING AND ELECTRICAL CONNECTIONS BETWEEN EQUIPMENT PROVIDED BY E.C. COORDINATE WITH M.C. FOR EXACT LOCATIONS.
3. EQUIPMENT PROVIDED BY G.C. EQUIPMENT CONDUIT, WIRING AND ELECTRICAL CONNECTIONS BETWEEN EQUIPMENT PROVIDED BY E.C. COORDINATE WITH G.C. FOR EXACT LOCATION.
4. PUMP PROVIDED BY G.C., CABLES PROVIDED WITH PUMP TO BE ROUTED IN CABLE TRAY AS SHOWN ON PLANS. REFERENCE SHEET E-103 FOR CABLE TRAY LOCATION.
5. COORDINATE WITH G.C. FOR CABLE ROUTING BETWEEN 200HP PUMP LOCAL DISCONNECT, AND VFD LOCATED ON THE FIRST FLOOR.
6. EQUIPMENT PROVIDED BY P.C. E.C. TO PROVIDE CONDUIT, WIRING AND ELECTRICAL CONNECTIONS BETWEEN EQUIPMENT. COORDINATE WITH P.C. FOR EXACT LOCATION.
7. METER, METER ENCLOSURE AND CTs PROVIDED BY UTILITY (GUSC). CTs WILL BE MOUNTED ON TRANSFORMER SECONDARY STABS. COORDINATE WITH GUSC FOR SECONDARY CABLE TERMINATION POINTS AND LOCATIONS.
8. ENCLOSED MOTOR STARTER/CONTROLLER TO BE RATED FOR 480V 3 PHASE AND UP TO 10HP MAXIMUM.

CONDUIT SCHEDULE (#)

CONDUIT NUMBER	CABLE DESCRIPTION	FROM	CIRCUIT/SECTION NUMBER	TO	CONDUIT SIZE (IN)
1	CONDUCTORS PROVIDED BY UTILITY (GUSC), CONDUITS PROVIDED BY E.C. COORDINATE WITH UTILITY	TRIANGLE STATION SWITCHGEAR	N/A	PUMP STATION XFMR (PAD MOUNTED)	(2) 4" RGS
2	3 SETS OF (4) 300MCM & (1) 2/0G	GENERATOR	N/A	GTPS-ATS	(3) 3" SCH 80 PVC
3	3 SETS OF (4) 400MCM & (1) 3/0G	GTPS-ATS	N/A	GTPS-SWBD-1	(3) 4" RGS
4	NOT USED	-	-	-	-
5	(3) #2	GTPS-SWBD-1	37, 39, 41	GTPS-T1	1" RGS
6	(4) 4/0 & (1) #4G	GTPS-T1	GTPS-SWBD-1 (37, 39, 41)	GTPS-DP1	2+1/2" RGS
7	2 SETS OF (4) 3/0 & (1) #2G	GTPS-SWBD-1	(38, 40, 42), (43, 45, 47), (44, 46, 48)	VFD 1, 2, 3	(2) 2" RGS
8	(4) #8 & (1) #10G	GTPS-SWBD-1	31, 33, 35	EUH-1	1" RGS
9	NOT USED	-	-	-	-
10	(4) #12 & (1) #12G	GTPS-SWBD-1	26, 28, 30	OCS-1	3/4" RGS
11	(4) #12 & (1) #12G	GTPS-SWBD-1	20, 22, 24	MAU-1	3/4" RGS
12	(4) #12 & (1) #12G	GTPS-SWBD-1	19, 21, 23	EF-1	3/4" RGS
13	NOT USED	-	-	-	-
14	(2) #10 & (1) #10G	GTPS-DP1	1	DWH-1	3/4" RGS
15	NOT USED	-	-	-	-
16	3 SETS OF (4) 400MCM	PUMP STATION PAD XFMR CT CABINET	N/A	SERVICE RATED DISCONNECT	(3) 3" SCH 80 PVC
17	NOT USED	-	-	-	-
18	3 SETS OF (4) 400MCM & (1) 3/0G	SERVICE RATED DISCONNECT	N/A	GTPS-ATS	(3) 4" RGS
19	(3) #1 & (1) #6G	GTPS-DP1	28, 30	GENERATOR LOAD CENTER	1+1/2" SCH 80 PVC
20	(2) #10 & (1) #10G	GTPS-DP1	9	EF-2, MOD-1 & MOD-2	3/4" RGS
21	(2) #12 & (1) #12G	GTPS-DP1	4	PUMP STATION FLOW METER	3/4" RGS
22	(4) #12 & (1) #12G	GTPS-SWBD-1	1, 3, 5	HOIST MOTOR ASSEMBLY	3/4" RGS

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WILLIAM E. PECKHAM
085491
LICENSED PROFESSIONAL ENGINEER
REGISTRATION EXPIRES: 10/31/2028

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GRIFFISS INTERNATIONAL AIRPORT ONEIDA COUNTY, ROME, NEW YORK

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REVISIONS

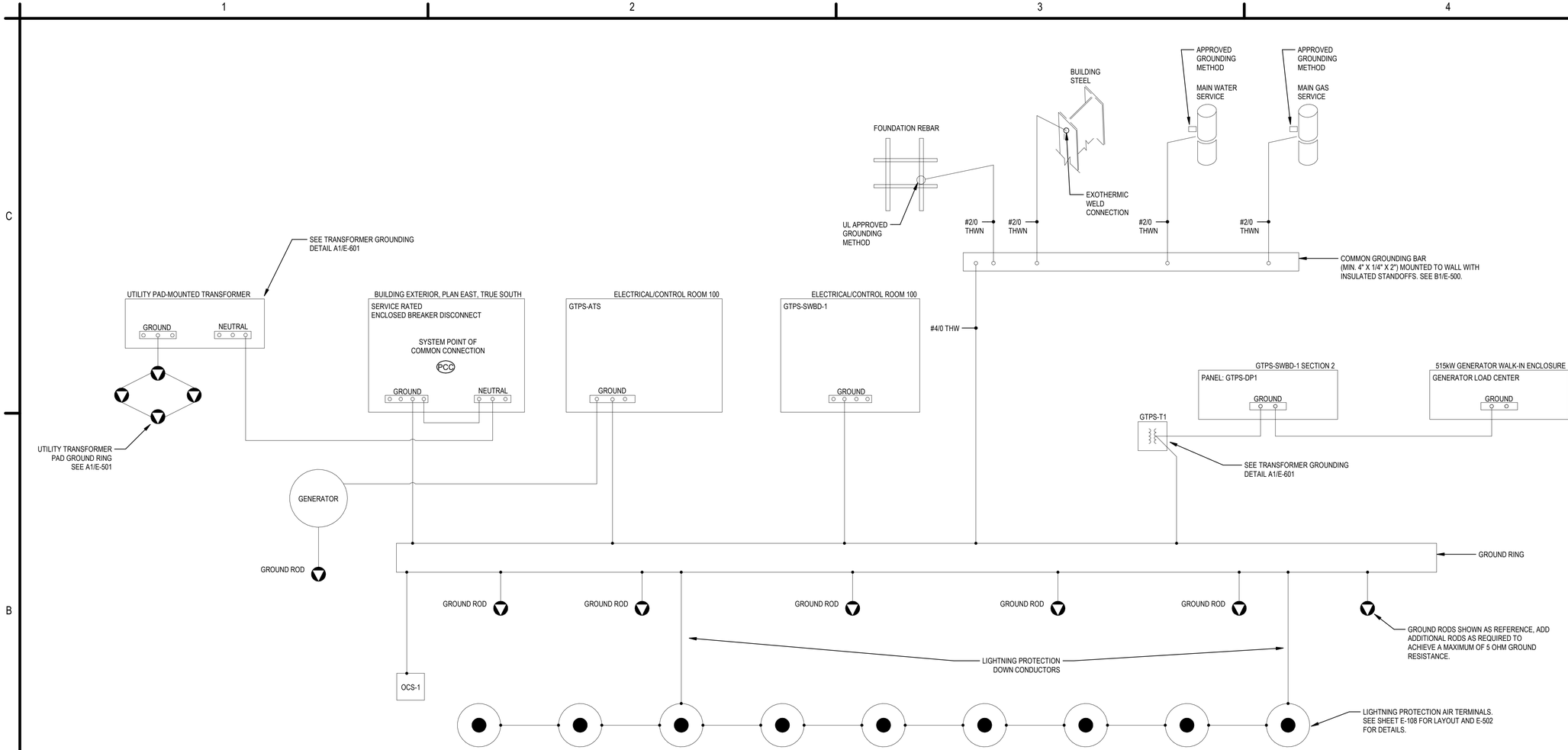
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ELECTRICAL SINGLE-LINE DIAGRAM

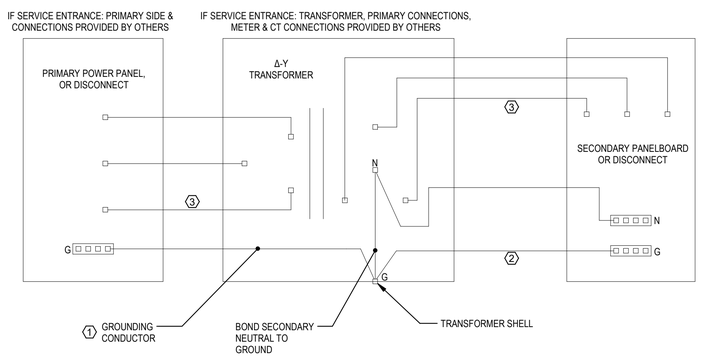
E-600

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B1 GROUNDING RISER DIAGRAM

SCALE: NTS

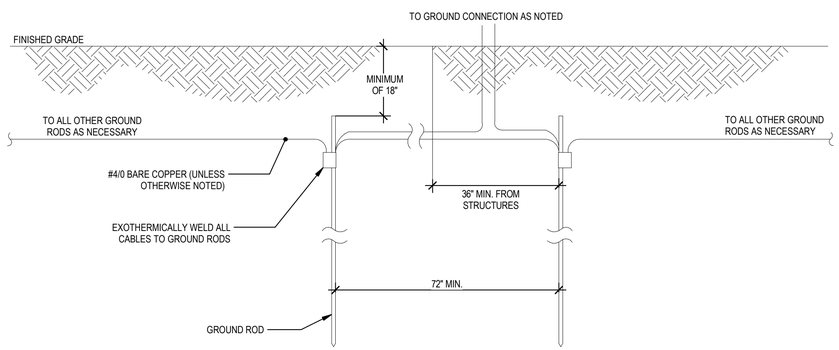


KEYED NOTES: (#)

1. FOR UTILITY PROVIDED TRANSFORMERS, CONNECT TO GROUND ACCORDING TO UTILITY REQUIREMENT.
2. FOR UTILITY PROVIDED TRANSFORMERS, DO NOT PROVIDE GROUND CONDUCTOR IF NEUTRAL CONDUCTOR IS PRESENT.
3. FOR SINGLE PHASE TRANSFORMERS, DO NOT PROVIDE THIRD POWER CONDUCTOR.

A1 TRANSFORMER GROUNDING DETAIL

SCALE: NTS



A3 GROUNDING ROD DETAIL

SCALE: NTS

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GROUNDING DETAILS & RISER DIAGRAM

E-601

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BRANCH PANEL: GTPS-DP1

LOCATION: DRY WELL 104
SUPPLY FROM: GTPS-T1
MOUNTING: SURFACE
ENCLOSURE: NEMA 2

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. RATING: 10 k.A.I.C.
FEED: TOP
MAINS TYPE: COPPER
MAINS RATING: 225 A
MCB RATING: 225 A

NOTES:

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	CIRCUIT DESCRIPTION	CKT
1	DWH-1	20 A	1	2004 VA	1920 VA					1	20 A	GAS MONITORING PANEL	2
3	RECEPTACLES, CHEMICAL STORAGE 101	20 A	1			540 VA	120 VA			1	20 A	FLOW METER	4
5	RECEPTACLES, ELECTRICAL/CONTROL ROOM 100	20 A	1					360 VA	360 VA	1	20 A	RECEPTACLES, LAV 102	6
7	SUMP PUMP RECEPTACLE P-1, DRY WELL 104	20 A	1	960 VA	1620 VA					1	20 A	EXTERIOR - RECEPTACLES	8
9	EF-2, MOD-1 & MOD-2, CHEMICAL STORAGE 101	20 A	1			1104 VA	360 VA			1	20 A	GFCI RECEPTACLES, ELECTRICAL/CONTROL ROOM 100	10
11	EXIT SIGN, ELECTRICAL/CONTROL ROOM 100	20 A	1					221 VA	0 VA	1	20 A	SPARE	12
13	PUMP STATION CONTROL PANEL	20 A	1	1000 VA	900 VA					1	20 A	RECEPTACLES, DRY WELL 104	14
15	SPARE	20 A	1			0 VA	120 VA			1	20 A	WET WELL LEVEL TRANSMITTER	16
17	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	18
19	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	20
21	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	22
23	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	24
25				--	0 VA					1	20 A	SPARE	26
27	SPACE	--	3			--	8320 VA			2	100 A	GENERATOR LOAD CENTER	28
29								--	8320 VA				30
			TOTAL VA:	8404 VA		10564 VA		9261 VA					
			TOTAL AMPS:	70 A		89 A		78 A					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	DEMAND/USAGE	PANEL TOTALS	
RECEPTACLE	4140 VA	10.00%	414 VA	**CONNECTED VA:**	28229 VA
DOMESTIC WATER HEATER	2004 VA	20.00%	401 VA	**DEMAND VA:**	12523 VA
SUMP PUMP	960 VA	10.00%	96 VA	**CONNECTED AMPS:**	78 A
LIGHTING - INTERIOR	221 VA	10.00%	22 VA	**DEMAND AMPS:**	35 A
PUMP STATION CONTROL PANEL	1000 VA	100.00%	1000 VA		
CHEMICAL STORAGE EXHAUST FAN	1104 VA	10.00%	110 VA		
GAS MONITORING PANEL	1920 VA	100.00%	1920 VA		
FLOW METER	120 VA	100.00%	120 VA		
WET WELL LEVEL TRANSMITTER	120 VA	100.00%	120 VA		
GENERATOR LOAD CENTER	16640 VA	50.00%	8320 VA		

NOTES:

SWITCHBOARD: GTPS-SWBD-1

LOCATION: DRY WELL 104
SUPPLY FROM: GTPS-ATS
MOUNTING: FLOOR
ENCLOSURE: NEMA 2

VOLTS: 480/277 Wye
PHASES: 3
WIRES: 4

A.I.C. RATING: 35 k.A.I.C. MINIMUM
FEED: TOP
MAINS TYPE: COPPER
MAINS RATING: 1200 A
MCB RATING: 1000 A

NOTES:

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	CIRCUIT DESCRIPTION	CKT
1				3740 VA	--								2
3	PUMP HOIST MOTOR	20 A	3			3740 VA	--			3	--	SPACE	4
5								3740 VA	--				6
7	SPACE	--	1	--	--					1	--	SPACE	8
9	LIGHTING - BUILDING EXTERIOR	20 A	1			64 VA	--			1	--	SPACE	10
11	LIGHTING - WET WELL STAIRWAY 105	20 A	1					40 VA	80 VA	1	20 A	LIGHTING - DRY WELL STAIRWAY	12
13	LIGHTING - LAV 102	20 A	1	32 VA	192 VA					1	20 A	LIGHTING - DRY WELL 104	14
15	LIGHTING - ELECTRICAL CONTROL ROOM 100	20 A	1			256 VA	32 VA			1	20 A	LIGHTING - CHEMICAL STORAGE 101	16
17	ELECTRICAL CONVECTOR - CHEMICAL STORAGE 101	20 A	1					1000 VA	500 VA	1	20 A	ELECTRIC CONVECTOR - LAV 102	18
19				443 VA	970 VA								20
21	EF-1	15 A	3			443 VA	970 VA			3	15 A	MAU-1	22
23								443 VA	970 VA				24
25				0 VA	2105 VA								26
27	SPARE	20 A	3			0 VA	2105 VA			3	15 A	OCS-1	28
29								0 VA	2105 VA				30
31				8339 VA	0 VA								32
33	EUH-1	40 A	3			8339 VA	0 VA			3	20 A	SPARE	34
35								8339 VA	0 VA				36
37				8404 VA	62325 VA								38
39	GTPS-T1	100 A	3			10564 VA	62325 VA			3	400 A	GTPS-PUMP 1	40
41								9261 VA	62325 VA				42
43				62325 VA	62325 VA								44
45	GTPS-PUMP 2	400 A	3			62325 VA	62325 VA			3	400 A	GTPS-PUMP 3	46
47								62325 VA	62325 VA				48
			TOTAL VA:	211200 VA		213488 VA		213453 VA					
			TOTAL AMPS:	762 A		772 A		772 A					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	DEMAND/USAGE	PANEL TOTALS	
LIGHTING - EXTERIOR	64 VA	50.00%	32 VA	**CONNECTED VA:**	638140 VA
RECEPTACLE	4140 VA	10.00%	414 VA	**DEMAND VA:**	412150 VA
WET/DRY WELL PUMP	373950 VA	100.00%	373950 VA	**CONNECTED AMPS:**	768 A
WET/DRY WELL PUMP (REDUNDANT)	186975 VA	0.01%	19 VA	**DEMAND AMPS:**	496 A
UNIT HEATER	25018 VA	70.00%	17513 VA		
MAKEUP AIR UNIT	2909 VA	10.00%	291 VA		
CONTROL ROOM EXHAUST FAN	1330 VA	10.00%	133 VA		
ODOR CONTROL SYSTEM	6316 VA	100.00%	6316 VA		
DOMESTIC WATER HEATER	2004 VA	20.00%	401 VA		
SUMP PUMP	960 VA	10.00%	96 VA		
LIGHTING - INTERIOR	853 VA	10.00%	85 VA		
PUMP STATION CONTROL PANEL	1000 VA	100.00%	1000 VA		
CHEMICAL STORAGE EXHAUST FAN	1104 VA	10.00%	110 VA		
ELECTRIC CONVECTOR	1500 VA	50.00%	750 VA		
GAS MONITORING PANEL	1920 VA	100.00%	1920 VA		
FLOW METER	120 VA	100.00%	120 VA		
WET WELL LEVEL TRANSMITTER	120 VA	100.00%	120 VA		
PUMP HOIST MOTOR	11219 VA	5.00%	561 VA		
GENERATOR LOAD CENTER	16640 VA	50.00%	8320 VA		

NOTES:
(G) - GFCI Breaker (GP) - GFEP Breaker (A) - AFCI Breaker (S) - Shunt Trip Breaker (L) - Lockable Breaker

LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	MOUNTING	DELIVERED LUMENS	INPUT WATTAGE	COLOR TEMPERATURE	CRI	VOLTAGE	BASIS OF DESIGN.	NOTES
A	SOLAS RAY LIGHTING, THE PILOT, HAZARDOUS LOCATION LED LIGHTING, CLASS I DIV I GROUPS C & D, CORROSION PROOF, MARINE RATED PROTECTIVE POWDER COAT, WIRE GUARD, HEAVY DUTY AND HIGH IMPACT RESISTANCE. 100,000+ HOURS L70, IP66, 5 YEAR LIMITED WARRANTY	SURFACE/WALL	4200	30	4000K	80	120-277	SOLAS RAY LIGHTING: HJGJJ1 - 030 - 40 - U - GL - HJGU - HJW90	
B	SOLAS RAY LIGHTING, THE STEWARD, HAZARDOUS LOCATION LED LIGHTING, CLASS I DIV I GROUPS C & D, CORROSION PROOF, MARINE RATED PROTECTIVE POWDER COAT, WIRE GUARD, HEAVY DUTY AND HIGH IMPACT RESISTANCE. 70,000+ HOURS L70, IP66, 5 YEAR LIMITED WARRANTY	PENDANT	5600	40	4000K	80	120-277	SOLAS RAY LIGHTING: HJIL41 - 040 - 40 - U - 120 - HJPP	
C	METALUX VAPORTITE 4 FOOT INDUSTRIAL LED, WET LOCATION AND IP67 LISTED, NEMA 4X, 4 FEET, HIGH IMPACT POLYCARBONATE OPTICAL LENS, IMPACT PROTECTION RATING IK07 LENS AND IK07 HOUSING	SUSPENDED	4000	32	4000K	80	120-277	METALUX: 4VT3 - LD5 - 4 - G - UNV - L840 - VT3-SS-VBK	
D	METALUX VAPORTITE 4 FOOT INDUSTRIAL LED, WET LOCATION AND IP67 LISTED, NEMA 4X, 4 FEET, HIGH IMPACT POLYCARBONATE OPTICAL LENS, IMPACT PROTECTION RATING IK07 LENS AND IK07 HOUSING	SURFACE/WALL	4000	32	4000K	80	120-277	METALUX: 4VT3 - LD5 - 4 - G - UNV - L840 - SSL	
E	LITHONIA LIGHTING, CONTRACTOR SELECT TWR LED WALL PACK, ADJUSTABLE + SWITCHABLE + INTEGRAL PHOTOCELL, IP65, DUSK-TO-DAWN, DIE-CAST ALUMINUM HOUSING AND BOROSILICATE GLASS LENS	SURFACE/WALL	2300	16	4000K	80	120-347	LITHONIA LIGHTING: TWR1 - LED - ALO - SWW2 - UVOLT - PE - DDBTXD	
X	LITHONIA LIGHTING, THERMOPLASTIC EXITS LQM LED LAMPS, IMPACT & SCRATCH RESISTANT, SINGLE FACE BACK MOUNTING, UL DAMP LOCATION LISTED, 5-YEAR LIMITED WARRANTY, EMERGENCY BATTERY BACKUP.	SURFACE/WALL	-	0.92	-	-	120-277	LITHONIA LIGHTING: LQM - 5 - 3 - R - MVOLT - EL - N - SD - M6	

LIGHTING POWER ALLOWANCES & STATISTICS

ROOM TYPE/NAME	RECOMMENDED AVERAGE FOOTCANDELS (FC) PER IES	AVERAGE FOOTCANDLES (FC)	TOTAL WATTS (W)	TOTAL ROOM/SPACE (ft^2)	LPD (W/ft^2)	MAXIMUM LPD (W/ft^2)
ELECTRICAL/CONTROL ROOM 100	30	31.37	257.92	500.48	0.515	0.43
CHEMICAL STORAGE 101	30	29.54	32	52.09	0.619	0.69
LAV 102	20	15.93	32	34.09	0.946	0.85
DRY WELL 104	20	19.77	193.44	427.71	0.452	1.0
WET WELL STAIRWAY 105	10	34.68	80	133.58	0.599	1.0
TOTALS	-	-	595.36	1147.95	3.131	3.97

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CERTIFICATE OF AUTHORIZATION# 021331
STATE OF NEW YORK WILLIAM R. KOCH 085491 LICENSED PROFESSIONAL ENGINEER
REGISTRATION EXPIRES: 10/31/2028

ONEIDA COUNTY 1798 NEW YORK

POPLI DESIGN GROUP
450 West Kirkpatrick Street • Syracuse, NY 13204
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TRIANGLE AREA CIVIL SITE DEVELOPMENT PUMP STATION GRIFFISS INTERNATIONAL AIRPORT ONEIDA COUNTY, ROME, NEW YORK

MARK	DATE	DESCRIPTION

REVISIONS

PROJECT NO: 146.205.011
DATE: MARCH 6, 2026
DRAWN BY: PRK
DESIGNED BY: PRK
CHECKED BY: WEF

NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK EDUCATION LAW

SCHEDULES

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